



Full wwPDB EM Validation Report ⓘ

Mar 22, 2026 – 07:45 PM UTC

PDB ID : 5A9Z / pdb_00005a9z
EMDB ID : EMD-6396
Title : Complex of Thermos thermophilus ribosome bound to BipA-GDPCP
Authors : Kumar, V.; Chen, Y.; Ahmed, T.; Tan, J.; Ero, R.; Bhushan, S.; Gao, Y.-G.
Deposited on : 2015-07-23
Resolution : 4.70 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : **NOT EXECUTED**
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

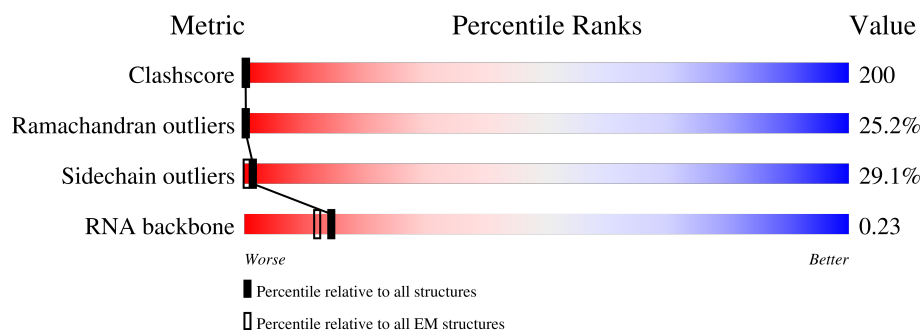
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.70 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.



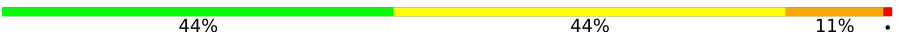
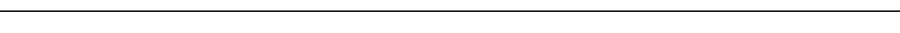
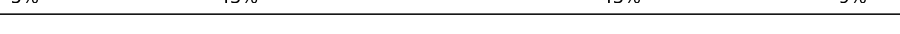
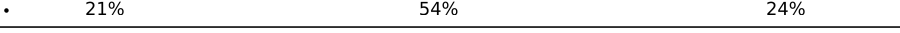
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102
RNA backbone	8273	3508

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	AA	2889	
2	AB	123	
3	AC	228	
4	AD	272	
5	AE	206	
6	AF	208	
7	AG	182	

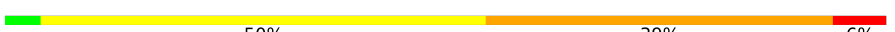
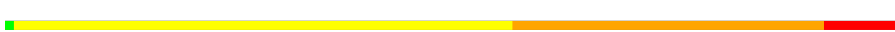
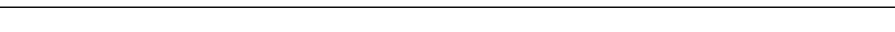
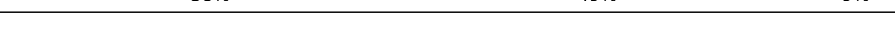
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
8	AH	174	
9	AI	153	
10	AJ	134	
11	AK	139	
12	AL	122	
13	AM	145	
14	AN	136	
15	AO	117	
16	AP	110	
17	AQ	117	
18	AR	117	
19	AS	101	
20	AT	110	
21	AU	94	
22	AV	110	
23	AW	180	
24	AX	85	
25	AY	67	
26	AZ	59	
27	Aa	71	
28	Ab	57	
29	Ac	49	
30	Ad	49	
31	Ae	64	
32	Af	37	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
33	Ag	128	 52% 48%
34	BA	1515	 57% 33% 9%
35	BF	234	 43% 42% 14%
36	BG	206	 50% 39% 6%
37	BH	208	 48% 39% 11%
38	BI	150	 56% 35% 8%
39	BJ	101	 49% 41% 8%
40	BK	155	 50% 37% 9%
41	BL	138	 50% 39% 9%
42	BM	127	 56% 35% 6%
43	BN	98	 48% 44% 6%
44	BO	119	 54% 42% 4%
45	BP	124	 38% 49% 9%
46	BQ	114	 11% 57% 27% 5%
47	BR	60	 7% 48% 30% 15%
48	BS	88	 58% 34% 6%
49	BT	83	 49% 40% 11%
50	BU	104	 44% 43% 9%
51	BV	73	 56% 29% 14%
52	BW	80	 54% 39% 6%
53	BX	99	 5% 51% 38% 6%
54	BY	24	 63% 29% 8%
55	CA	593	 11% 56% 28% 5%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	GCP	CA	701	-	-	X	-

2 Entry composition

There are 57 unique types of molecules in this entry. The entry contains 150547 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 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	2889	Total	C	N	O	P	0	0
			62218	27691	11629	20009	2889		

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	A	deletion	GB 37223181
AA	?	-	A	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	A	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	1134	G	UNK	conflict	GB 37223181

- Molecule 2 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AB	123	Total	C	N	O	P	0	0
			2641	1175	488	855	123		

- Molecule 3 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AC	228	Total	C	N	O	S	0	0
			1742	1102	318	319	3		

- Molecule 4 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AD	272	Total	C	N	O	S	0	0
			2124	1339	424	358	3		

- Molecule 5 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AE	206	Total	C	N	O	S	0	0
			1578	997	302	273	6		

- Molecule 6 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AF	208	Total	C	N	O	S	0	0
			1625	1034	303	286	2		

- Molecule 7 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AG	182	Total	C	N	O	S	0	0
			1482	947	269	261	5		

- Molecule 8 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AH	174	Total	C	N	O	S	0	0
			1328	844	248	235	1		

- Molecule 9 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	AI	153	Total	C	N	O	0	0
			752	446	153	153		

- Molecule 10 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AJ	134	Total	C	N	O	S	0	0
			993	632	175	181	5		

- Molecule 11 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AK	139	Total	C	N	O	S	0	0
			1113	717	207	186	3		

- Molecule 12 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AL	122	Total	C	N	O	S	0	0
			932	587	171	170	4		

- Molecule 13 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AM	145	Total	C	N	O	S	0	0
			1106	688	226	190	2		

- Molecule 14 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AN	136	Total	C	N	O	S	0	0
			1080	688	204	183	5		

- Molecule 15 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	AO	117	Total	C	N	O	0	0
			960	599	202	159		

- Molecule 16 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	AP	110	Total	C	N	O		
			877	553	175	149	0	0

- Molecule 17 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	AQ	117	Total	C	N	O	S	
			976	614	197	164	1	0

- Molecule 18 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	AR	117	Total	C	N	O	S	
			964	610	202	151	1	0

- Molecule 19 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms				AltConf	Trace
19	AS	101	Total	C	N	O	S	
			779	501	142	135	1	0

- Molecule 20 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms				AltConf	Trace
20	AT	110	Total	C	N	O	S	
			876	552	171	151	2	0

- Molecule 21 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	AU	94	Total	C	N	O		
			742	483	133	126	0	0

- Molecule 22 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				AltConf	Trace
22	AV	110	Total	C	N	O	S	
			844	539	158	141	6	0

- Molecule 23 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AW	180	Total	C	N	O	S	0	0
			1435	916	256	260	3		

- Molecule 24 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AX	85	Total	C	N	O	S	0	0
			670	415	141	112	2		

- Molecule 25 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	AY	67	Total	C	N	O	S	0	0
			567	350	116	99	2		

- Molecule 26 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AZ	59	Total	C	N	O	S	0	0
			469	298	90	81			

- Molecule 27 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	Aa	71	Total	C	N	O	S	0	0
			581	364	108	104	5		

- Molecule 28 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	Ab	57	Total	C	N	O	S	0	0
			445	279	87	74	5		

- Molecule 29 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	Ac	49	Total	C	N	O	S	0	0
			426	265	87	70	4		

- Molecule 30 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	Ad	49	Total	C	N	O	S	0	0
			430	263	108	57	2		

- Molecule 31 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	Ae	64	Total	C	N	O	S	0	0
			515	331	102	79	3		

- Molecule 32 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	Af	37	Total	C	N	O	S	0	0
			307	188	68	47	4		

- Molecule 33 is a protein called Unknown peptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	Ag	128	Total	C	N	O		0	5
			620	369	128	123			

- Molecule 34 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BA	1515	Total	C	N	O	P	0	0
			32554	14490	6022	10527	1515		

- Molecule 35 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BF	234	Total	C	N	O	S	0	0
			1900	1213	341	341	5		

- Molecule 36 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BG	206	Total	C	N	O	S	0	0
			1612	1016	314	281	1		

- Molecule 37 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BH	208	Total	C	N	O	S	0	0
			1703	1066	339	291	7		

- Molecule 38 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	BI	150	Total	C	N	O	S	0	0
			1146	724	217	201	4		

- Molecule 39 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BJ	101	Total	C	N	O	S	0	0
			843	531	155	154	3		

- Molecule 40 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	BK	155	Total	C	N	O	S	0	0
			1257	781	252	218	6		

- Molecule 41 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BL	138	Total	C	N	O	S	0	0
			1116	705	215	193	3		

- Molecule 42 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BM	127	Total	C	N	O		0	0
			1010	639	197	174			

- Molecule 43 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	BN	98	Total	C	N	O	S	0	0
			794	499	156	138	1		

- Molecule 44 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BO	119	Total	C	N	O	S	0	0
			885	549	168	165	3		

- Molecule 45 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BP	124	Total	C	N	O	S	0	0
			970	611	195	163	1		

- Molecule 46 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BQ	114	Total	C	N	O	S	0	0
			914	565	189	158	2		

- Molecule 47 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	BR	60	Total	C	N	O	S	0	0
			492	312	104	72	4		

- Molecule 48 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	BS	88	Total	C	N	O	S	0	0
			734	459	147	126	2		

- Molecule 49 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	BT	83	Total	C	N	O	S	0	0
			700	443	139	117	1		

- Molecule 50 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	BU	104	Total	C	N	O	S	0	0
			857	547	161	147	2		

- Molecule 51 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				AltConf	Trace
51	BV	73	Total	C	N	O	0	0
			597	380	118	99		

- Molecule 52 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	BW	80	Total	C	N	O	S	0	0
			647	414	119	112	2		

- Molecule 53 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	BX	99	Total	C	N	O	S	0	0
			763	470	162	129	2		

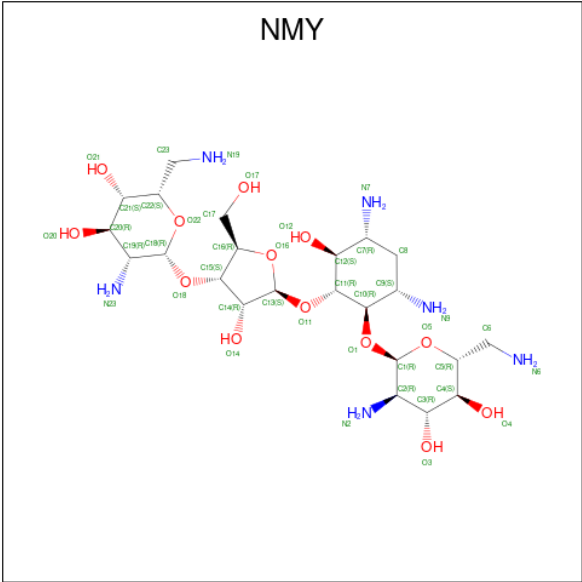
- Molecule 54 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				AltConf	Trace
54	BY	24	Total	C	N	O	0	0
			208	128	50	30		

- Molecule 55 is a protein called BipA.

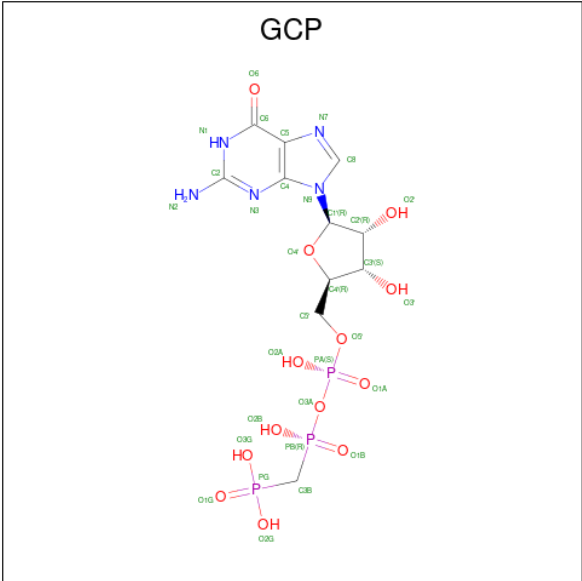
Mol	Chain	Residues	Atoms					AltConf	Trace
55	CA	593	Total	C	N	O	S	0	0
			4532	2856	791	868	17		

- Molecule 56 is NEOMYCIN (CCD ID: NMY) (formula: C₂₃H₄₆N₆O₁₃).



Mol	Chain	Residues	Atoms				AltConf
56	AA	1	Total	C	N	O	0
			42	23	6	13	
56	BA	1	Total	C	N	O	0
			42	23	6	13	

- Molecule 57 is PHOSPHOMETHYLPHOSPHONIC ACID GUANYLATE ESTER (CCD ID: GCP) (formula: C₁₁H₁₈N₅O₁₃P₃).

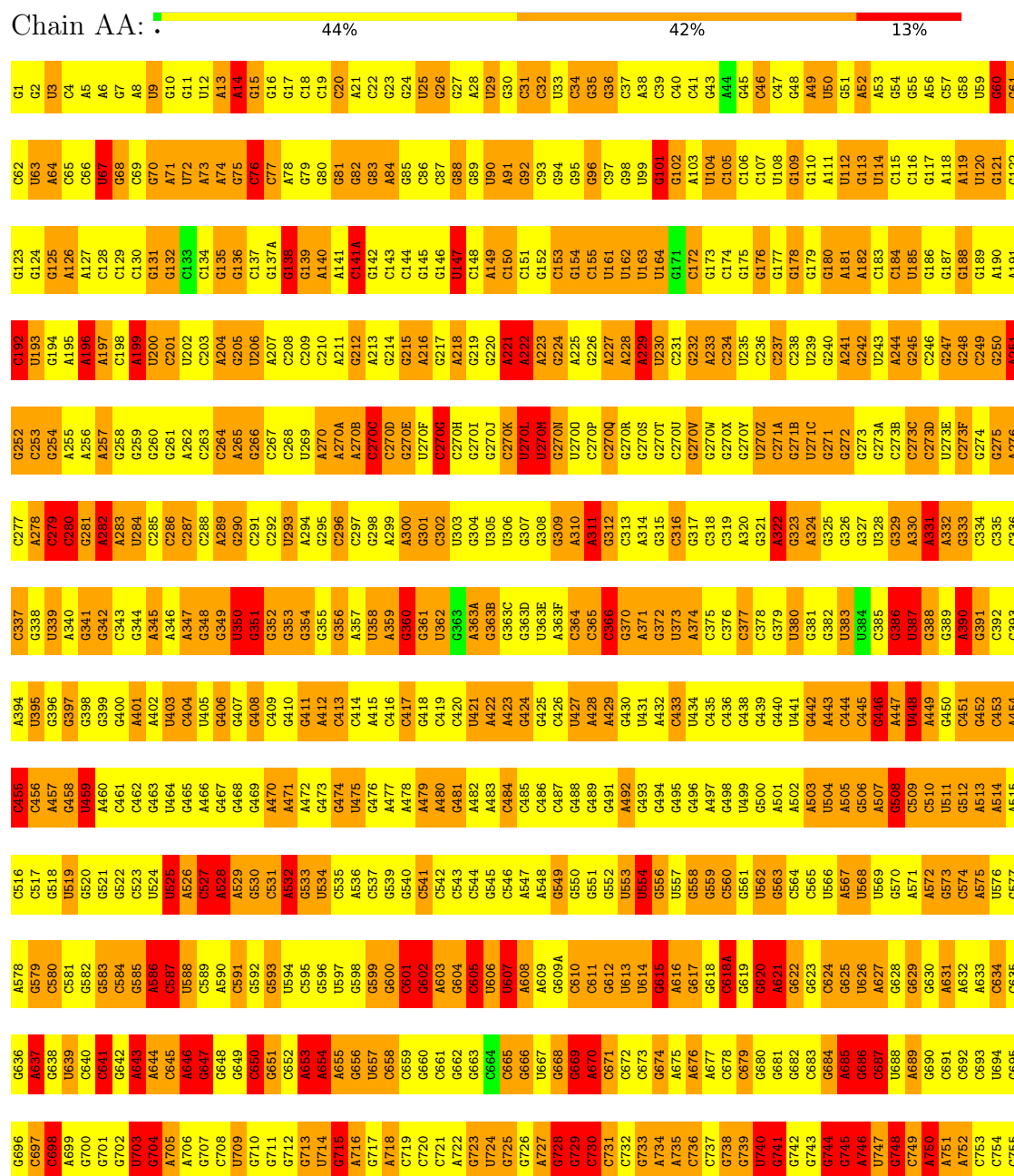


Mol	Chain	Residues	Atoms					AltConf
57	CA	1	Total	C	N	O	P	0
			32	11	5	13	3	

3 Residue-property plots

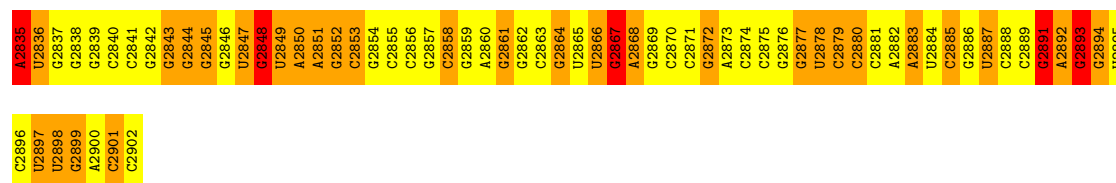
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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: 23S ribosomal RNA

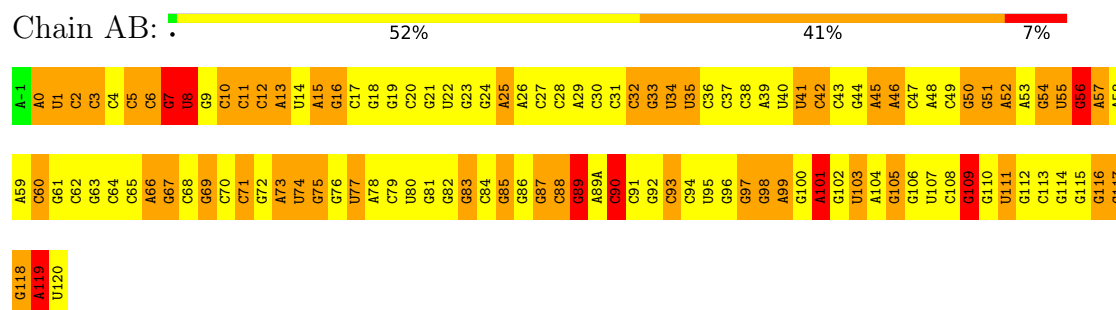


G1726	C1657	C1598	G1538	A1477	G1418	G1358	G1298	G1288	A1177	G1117	A1057	G997	G938	G876	C816	C756
U1727	C1658	C1599	G1539	G1478	A1419	A1389	G1299	G1289	C1178	C1118	G1058	C998	G939	U877	C817	U757
G1728	C1659	C1600	G1540	G1479	U1420	A1360	U1300	U1240	C1179	C1119	G1059	U999	G940	A878	G818	C758
A1729	C1660	G1601	U1541	G1480	G1421	G1361	A1301	A1241	A1180	G1120	U1060	A1000	A941	G879	A819	G759
G1730	G1661	U1602	G1542	U1482	G1423	C1362	A1302	G1242	C1181	G1121	U1061	A1001	G942	G880	A820	G760
U1731	C1662	A1603	A1543	G1483	G1424	C1363	G1303	G1243	A1182	G1122	G1062	G1002	U943	G881	A821	A761
G1732	C1663	G1604	G1544	G1484	G1425	G1364	C1304	G1244	G1183	G1123	G1063	G1003	G944	G882	U822	U762
A1733	A1664	C1605	A1545	G1485	G1426	A1365	C1305	G1245	G1184	C1124	C1064	C1004	A945	G883	G823	G763
G1734	G1666	G1606	A1546A	A1486	A1427	A1366	C1306	A1246	C1185	G1125	U1065	G1005	G946	G884	A824	A764
C1741	G1667	C1607	G1547	G1487	G1428	G1367	A1307	A1247	G1186	A1127	U1066	C1007	G947	G885	U826	C766
G1742	A1668	A1608	C1548	G1488	C1428	G1368	A1308	G1248	G1187	A1128	U1067	C1008	G948	G886	U827	G767
G1743	A1669	A1609	C1549	U1489	G1429	G1369	G1309	U1249	U1188	A1129	G1068	A1009	G949	A887	U828	G768
G1746	C1670	C1611	C1550	G1490	C1430	C1370	G1310	G1250	U1189	U1130	A1069	A1010	G950	G888	U829	G769
G1747	U1671	C1612	C1551	G1491	U1431	G1371	G1311	C1251	G1190	U1131	A1070	A1011	C951	G889	A830	G770
G1748	C1672	G1613	G1552	G1492	C1432	A1372	U1312	G1252	G1191	G1132	G1071	G1011	G952	A890	G831	G771
A1749	A1673	A1614	C1553	C1493	A1433	A1373	C1313	A1253	G1192	U1012	A1072	U1012	A953	G892	G832	G772
G1750	G1674	A1615	A1554	A1494	A1434	C1374	C1314	A1254	G1193	U1013	A1073	C1013	G954	G893	U773	C773
C1751	C1675	A1616	G1555	A1495	G1435	C1375	C1315	U1255	A1194	G1134	G1074	U1014	G955	G894	U774	A774
G1752	A1676	C1617	C1556	U1497	G1437	G1377	A1317	C1257	G1196	G1136	C1076	G1016	A957	A896	A835	G775
G1753	A1677	A1618	C1557	U1498	U1438	A1378	C1318	C1258	G1197	U1017	A1077	G1017	U958	G897	G836	G776
C1754	C1678	G1619	A1558	C1499	A1439	A1379	G1319	C1259	U1198	G1138	U1078	U1018	A959	G898	C837	A777
A1755	U1679	G1620	G1559	G1500	G1440	G1380	C1320	G1260	U1199	G1139	C1079	U1019	A960	A899	C838	U779
G1756	U1680	U1621	G1560	C1501	G1441	G1381	A1321	C1261	C1200	U1141	A1080	A1020	C961	A900	U839	G780
U1757	G1681	G1622	G1561	C1502	G1442	G1382	A1322	A1262	C1201	U1142	U1081	A1021	G962	A901	C840	G781
G1758	G1682	G1623	A1562	U1503	G1443	C1383	U1323	U1263	C1202	U1143	U1082	G1022	U963	C902	A841	A782
A1759	C1683	G1624	G1563	C1504	A1444	A1384	G1324	G1264	G1203	U1144	U1083	U1023	C964	C903	G842	A783
U1760	C1684	C1625	A1564	C1505	A1444A	A1385	G1325	A1265	A1204	A1143	A1084	G1024	C965	C904	G843	A784
C1761	C1685	G1626	C1565	C1506	G1445	C1386	U1326	G1266	U1205	G1144	A1085	G1025	G966	G905	G844	G785
A1762	G1686	G1627	A1566	A1507	G1446	C1387	C1327	U1267	G1206	C1145	A1086	U1026	C967	G906	G845	G786
G1763	G1687	G1628	A1567	A1508	G1447	G1388	G1328	A1268	C1207	C1146	G1087	A1027	G968	U907	C846	U787
G1764	U1688	U1629	G1568	C1509	G1448	G1389	U1329	A1269	C1208	C1147	A1088	A1028	U969	C908	U847	A788
C1765	A1689	G1630	A1569	A1510	A1449	U1390	C1330	C1270	G1209	A1148	A1089	A1029	C970	A909	U848	C789
U1766	A1690	C1630A	A1570	A1511	G1449A	U1391	A1331	G1271	A1210	G1149	U1090	G1030	C971	A910	A849	A789
C1767	G1691	A1631	A1571	G1512	C1450	A1392	G1332	U1272	U1211	C1150	G1091	G1031	G972	A911	C850	C790
U1768	U1692	A1632	A1572	C1513	C1451	A1393	C1333	A1273	G1212	G1151	C1092	A1032	G973	C912	U851	G791
G1769	U1693	G1633	G1573	U1514	A1453	A1394	G1334	A1274	A1213	C1152	G1093	U1033	G974	U913	G852	G792
G1770	C1694	A1634	C1574	G1515	U1454	A1395	U1335	A1275	A1214	C1153	U1094	G1034	C974A	C914	G853	A793
C1771	G1695	G1635	C1575	U1516	G1455	U1396	A1336	A1276	G1215	A1154	A1095	U1035	G975	C915	G854	G794
G1772	G1696	C1636	U1576	G1517	G1456	U1397	G1337	G1277	G1216	A1155	A1096	G1036	C976	G916	G855	C795
A1773	G1697	A1637	C1577	C1518	A1457	C1398	G1338	A1278	C1217	A1156	U1097	G1037	G977	A917	C856	C796
C1774	A1698	C1638	U1578	G1519	C1458	C1399	G1339	G1279	G1218	G1157	A1098	C1038	G978	A918	C857	C797
U1775	G1699	U1639	A1579	U1520	G1459	G1400	U1340	G1280	A1220	U1158	C1099	G1039	G979	G919	U858	G798
G1776	A1700	C1640	A1580	G1521	A1460	G1401	U1341	G1281	C1221	U1159	G1100	C1040	A980	G920	G859	G799
U1777	A1701	A1641	G1581	G1522	G1461	C1402	A1342	U1282	C1222	G1160	U1101	C1041	A981	G921	U860	A800
U1778	G1702	G1642	C1582	U1523	C1462	C1403	G1343	G1283	C1223	C1161	C1102	G1042	C982	U922	A861	G801
U1779	G1703	G1643	A1583	G1524	C1463	G1404	G1344	G1284	G1224	G1162	A1103	C1043	C983	C923	G862	A802
A1780	G1704	C1644	C1585	G1525	G1464	U1405	C1345	G1285	G1225	G1163	C1104	G1044	A984	C924	A863	A803
G1781	G1705	G1645	A1586	G1526	G1465	U1406	G1346	A1286	G1226	G1164	U1105	A1045	C985	C925	G864	A804
C1782	U1706	C1646	A1587	G1527	G1466	C1407	G1347	A1287	A1227	U1165	G1106	A1046	C986	A926	C865	G805
A1783	G1707	C1588	C1588	G1528	C1467	C1408	G1348	U1288	G1228	C1166	G1107	G1047	G987	G928	A866	C806
U1784	U1708	C1648	A1589	A1529	C1468	C1409	A1349	U1289	G1229	U1167	U1108	A1048	A988	G929	C867	U807
A1785	C1709	G1649	U1590	G1530	A1469	G1410	C1350	C1290	C1230	G1168	C1109	C1049	A989	U930	U868	G808
A1786	C1710	G1650	G1591	C1531	G1470	C1411	C1351	C1291	G1231	G1169	G1110	A1050	A990	G931	G869	G809
A1787	C1711	G1651	C1592	G1532	A1471	A1412	U1352	U1292	G1232	G1170	A1111	G1051	C991	G932	A870	U810
G1788	C1712	A1652	G1593	C1533	A1472	G1413	A1353	C1293	G1233	G1171	A1112	C1052	C992	A933	U871	U811
A1789	U1716	G1653	G1594	G1534	G1473	G1414	A1354	U1294	U1234	G1173	U1113	C1053	G993	G934	A872	C812
C1790	G1717	A1654	G1595	U1535	C1474	U1415	G1355	C1295	G1235	U1174	G1114	A1054	C994	C935	G873	U813
U1791	G1718	A1655	A1596	A1536	G1475	U1416	G1356	G1296	G1236	U1175	G1115	A1055	C995	C936	G874	C814
G1792	C1725	C1656	A1597	C1537	C1476	C1417	U1357	C1297	A1237	G1176	C1116	G1056	A996	U937	G875	C815

C2772	A2712A	U2653	A2533	U2473	G2413	G2353	C2293	U2333	C2163	U2102	A2042	C1982	G1922	A1853	C1793
C2773	A2713	C2594	A2534	C2474	G2414	G2354	C2294	G2234	C2164	C2103	C2043	C1983	U1923	A1854	U1794
C2774	G2714	G2595	G2535	C2475	G2415	C2355	C2295	G2235	G2165	G2104	C2044	G1984	C1924	G1855	C1795
A2776	C2716	G2597	G2536	A2476	C2416	C2356	U2296	C2236	C2166	C2105	C2045	G1985	U1925	G1856	U1796
G2777	G2717	G2598	U2537	C2477	C2417	U2357	C2297	G2237	U2167	C2106	G2046	A1986	U1926	G1857	C1797
G2778	G2718	A2598	C2538	A2478	A2418	G2358	A2298	G2238	C2168	C2107	U2047	U1987	A1927	G1858	U1798
U2779	G2719	G2599	C2539	C2479	U2419	C2359	C2299	G2239	A2169		G2048	C1988	A1928	A1859	G1799
G2780	C2720	A2600	C2540	C2480	C2420	A2360	G2300	C2240	A2170	G2110	G2049	G1989	A1929	G1860	C1800
G2781	A2721	A2601	A2541	G2481	G2421	A2361	C2301	A2241	A2171	C2111	C2050	C1990	G1930	G1861	G1801
G2782	G2722	A2602	A2542	G2482	A2422	G2362	G2302	G2242	A2172	C2112	A2051	U1991	U1931	G1862	A1802
G2783	G2723	G2603	G2543	C2483	U2423	C2363	G2303	G2243	A2173	U2113	G2052	G1992	U1932	G1863	A1803
G2784	C2724	U2604	G2544	G2484	G2424	G2364	G2304	U2244	C2174	G2114	G2053	U1993	G1933	U1864	C1804
A2785	G2725	U2605	G2545	G2485	A2425	G2365	A2305	U2245	C2175	G2115	A2054	C1994	C1934	G1865	U1805
U2786	U2726	C2606	U2546	G2486	A2426	A2366	C2306	G2246	A2176	G2116	C2055	U1995	G1935	C1870	C1806
G2787	G2727	G2607	U2547	G2487	C2427	G2367	G2307	A2247	C2177	U2117	G2056	C1996	A1936	A1871	U1807
G2788	U2728	C2608	G2548	A2488	G2428	C2368	G2308	C2248	C2178	U2118	A2057	U1997	U1937	G1872	U1808
C2789	G2729	U2609	G2549	G2489	G2429	A2369	A2309	U2249	A2058	G2119	A2058	U1998	A1938	G1878	A1809
A2790	C2730	C2610	G2550	G2490	A2430	G2370	A2310	G2250	A2059	G2120	A2059	C1999	U1939	C1879	A1810
C2791	G2731	U2611	C2551	U2491	U2431	G2371	A2311	G2251	G2181	U2121	A2060	G2000	U1940	C1880	G1811
G2792	G2732	C2612	U2552	U2492	A2432	G2372	U2312	G2252	G2182	U2122	G2061	A2001	C1941	C1881	A1812
G2793	A2733	G2613	G2553	U2493	A2433	G2373	C2313	G2253	C2183	G2123	A2062	G2002	C1942	G1882	G1813
G2794	A2734	U2614	U2554	G2494	A2434	C2374	G2314	C2254	C2184	G2124	G2063	G2003	U1943	G1883	A1814
G2795	G2735	U2615	U2555	G2495	A2435	G2375	G2315	G2255	C2185	G2125	C2064	G2004	U1944	A1884	A1815
U2797	G2736	C2616	C2556	C2496	G2436	A2376	C2316	G2256	G2186	A2126	C2065	A2005	G1945	A1885	G1816
G2798	G2737	G2617	G2557	A2497	U2437	A2377	C2317	U2257	G2187	G2127	C2066	C2006	U1946	G1886	G1817
A2799	U2738	C2618	C2558	C2498	U2438	A2378	G2318	C2258	C2188	C2128	G2067	C2007	C1947	C1887	U1818
A2801	G2739	C2619	C2559	C2499	A2439	G2379	G2319	G2259	U2189	C2129	U2068	C2008	G1948	G1888	A1819
C2802	C2802	C2620	C2560	U2500	C2440	C2380	A2320	C2260	G2190	U2130	G2069	G2009	G1949	G1889	U1820
G2803	A2741	A2621	A2561	C2501	C2441	C2381	G2321	C2261	G2191	G2131	A2070	G2010	G1950	A1890	A1821
C2804	G2742	C2622	U2562	G2502	C2442	G2382	G2322	U2262	G2192	U2132	A2071	U2011	U1951	G1891	G1822
G2805	C2743	C2623	U2563	A2503	C2443	G2383	G2323	C2263	G2193	G2133	G2072	G2012	A1952	G1892	G1823
G2807	G2744	G2624	A2564	U2504	G2444	G2384	C2324	C2264	C2194	A2134	C2073	A2013	A1953	C1893	G1824
U2808	G2745	G2625	A2565	G2505	C2445	C2385	G2325	U2265	C2195	A2135	U2074	A2014	G1954	C1894	A1825
A2809	U2746	C2626	A2566	U2506	G2446	U2386	C2326	A2266	G2196	C2136	U2075	A2015	U1955	G1895	G1826
G2810	G2747	G2627	C2567	C2507	G2447	U2387	A2327	A2267	U2197	C2137	U2076	U2016	U1956	G1896	G1827
G2811	A2748	C2628	C2568	G2508	A2448	U2388	A2328	A2268	A2198	G2138	A2077	U2017	C1957	G1897	G1828
G2812	A2749	G2629	C2569	G2509	U2449	G2389	G2329	A2269	A2199	C2139	C2078	G2018	G1958	U1898	A1829
C2813	A2750	C2630	G2570	C2510	A2450	U2390	G2330	C2270	C2205	C2140	U2079	A2019	G1959	G1899	C1830
C2814	G2751	G2631	A2571	U2511	A2451	G2391	U2331	G2271	C2206	G2141	G2080	A2020	A1960	A1900	G1831
C2815	C2752	C2632	A2572	C2512	C2452	A2392	G2332	U2272	C2207	C2142	C2081	C2021	C1961	A1901	C1832
G2816	A2753	G2633	C2573	U2513	A2453	A2393	A2333	A2273	U2208	C2143	A2082	U2022	U1963	C1902	U1833
G2817	U2754	C2634	G2574	U2514	G2454	C2394	G2334	A2274	C2209	U2144	G2083	G2023	U1964	G1903	U1834
G2818	C2755	C2635	C2575	C2515	G2455	G2395	A2335	C2275	G2210	C2145	C2084	G2024	G1965	G1904	G1835
G2819	U2756	U2636	G2576	G2516	C2456	G2396	A2336	G2276	C2211	C2146	C2085	G2025	A1966	C1905	C1836
A2820	A2757	G2637	A2577	C2517	U2457	G2397	U2337	G2277	A2212	G2147	U2086	C2026	C1967	G1906	C1837
A2821	G2758	C2638	G2578	A2518	G2458	U2398	G2338	A2278	U2213	G2148	G2087	G2027	C1968	G1907	C1838
G2822	C2759	A2639	C2579	U2519	A2459	G2399	G2339	G2279	G2215	U2150	G2088	U2028	G1969	C1908	G1839
G2823	G2760	C2640	U2580	C2520	U2460	G2400	G2340	G2280	G2216	U2151	U2089	G2029	A1969	C1909	G1840
C2824	G2761	G2641	G2581	C2521	C2461	U2401	G2341	G2281	G2217	G2152	G2090	A2030	A1970	G1910	U1841
C2825	G2762	G2642	G2582	U2522	U2462	G2402	C2342	G2282	G2218	C2153	U2091	A2031	A1971	U1911	G1842
A2826	G2763	C2643	G2583	G2523	C2463	C2403	C2343	C2283	G2219	G2154	U2092	G2032	A1972	A1912	C1843
C2827	A2764	U2644	U2584	G2524	G2464	C2404	U2344	C2284	G2224	G2155	G2093	A2033	G1973	A1913	C1844
G2828	A2765	G2645	C2585	G2525	C2465	G2405	G2345	C2285	A2225	U2156	G2094	U2034	C1974	C1914	G1845
C2829	G2766	C2646	U2586	G2526	G2466	U2406	A2346	A2286	C2226	G2157	C2095	G2035	G1975	U1915	G1846
G2830	C2767	U2647	A2587	G2527	A2467	G2407	C2347	A2287	A2227	G2157	U2096	G2036	U1976	A1916	A1847
G2831	G2768	C2648	U2588	U2528	U2468	U2408	U2348	A2288	G2228	C2158	C2097	G2037	U1977	U1917	A1848
G2832	C2769	U2649	A2589	G2529	A2469	G2409	G2349	G2289	C2229	G2159	U2098	G2038	A1978	A1918	G1849
U2833	G2770	U2650	A2590	A2530	G2470	G2410	C2350	G2290	G2230	G2160	U2099	C2039	C1979	A1919	G1850
G2834	U2771	C2651	C2591	A2531	C2471	A2411	G2351	U2291	G2231	G2161	G2100	G2040	G1980	U1920	G1851
		C2652	G2592	G2532	G2472	A2412	A2352	C2292	U2232	G2162	G2101	U2041	A1981	G1921	C1852



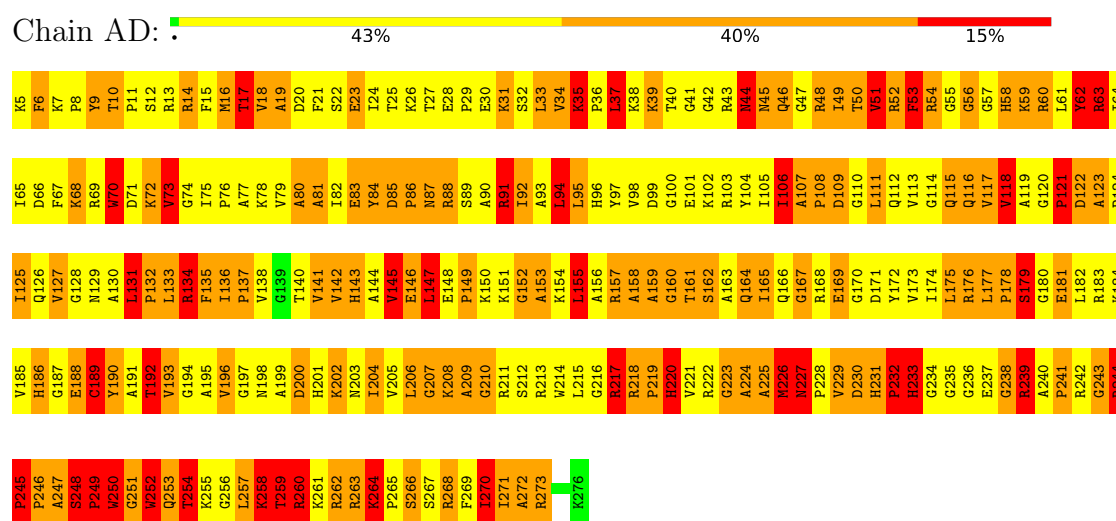
- Molecule 2: 5S ribosomal RNA



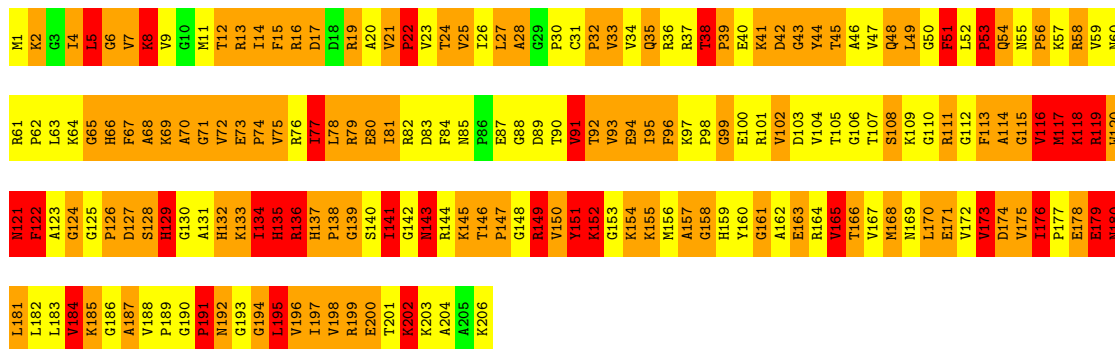
- Molecule 3: 50S ribosomal protein L1



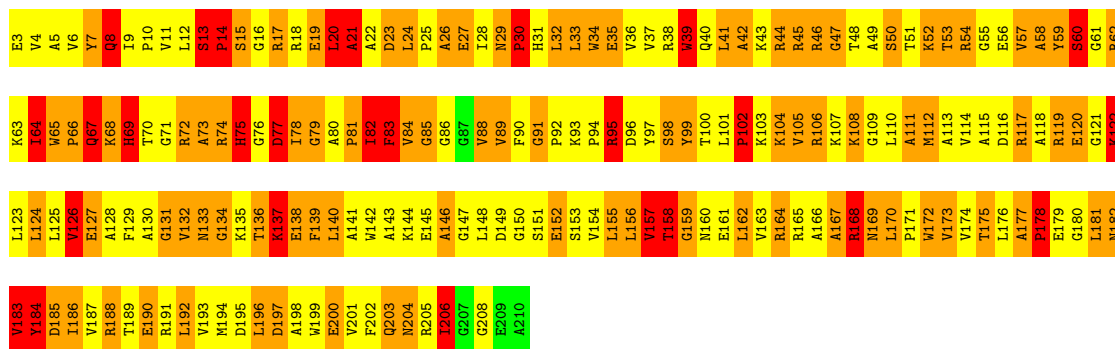
- Molecule 4: 50S ribosomal protein L2



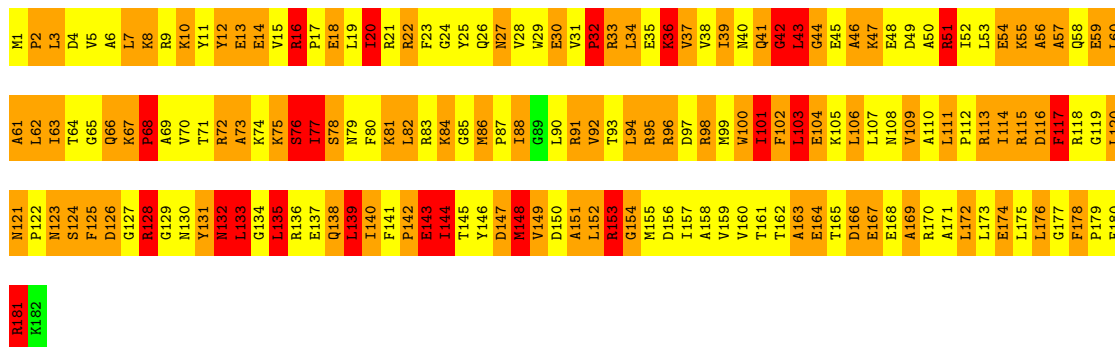
- Molecule 5: 50S ribosomal protein L3

Chain AE: 

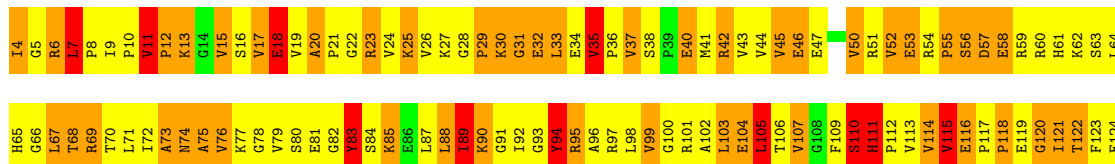
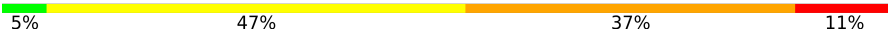
• Molecule 6: 50S ribosomal protein L4

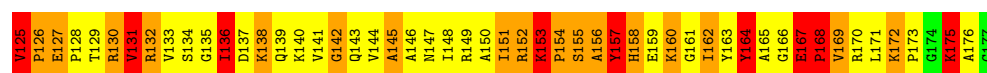
Chain AF: 

• Molecule 7: 50S ribosomal protein L5

Chain AG: 

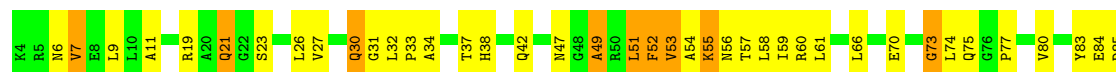
• Molecule 8: 50S ribosomal protein L6

Chain AH: 



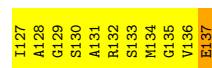
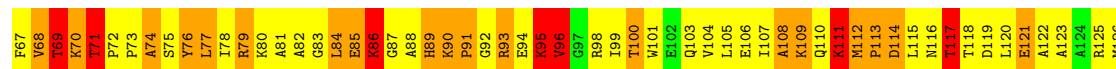
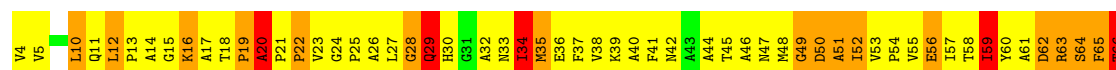
- Molecule 9: 50S ribosomal protein L10

Chain AI: 44% 44% 11%



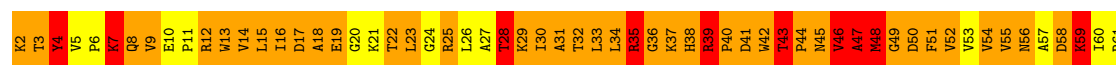
- Molecule 10: 50S ribosomal protein L11

Chain AJ: 7% 57% 27% 9%



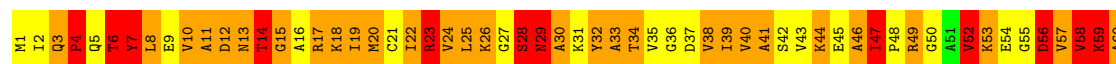
- Molecule 11: 50S ribosomal protein L13

Chain AK: 32% 51% 17%



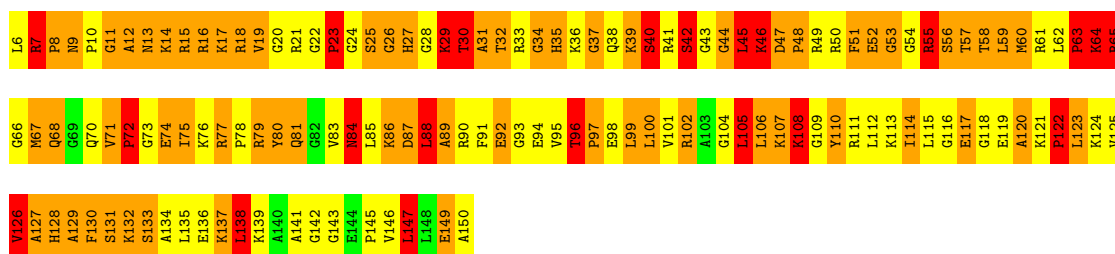
- Molecule 12: 50S ribosomal protein L14

Chain AL: 28% 51% 20%



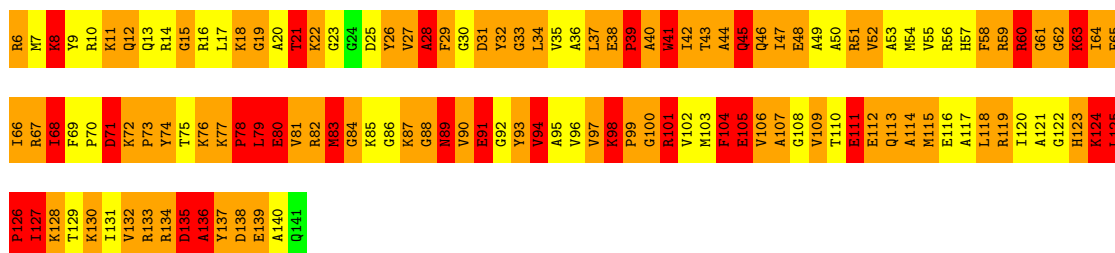
- Molecule 13: 50S ribosomal protein L15

Chain AM: 

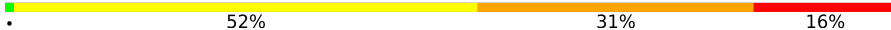


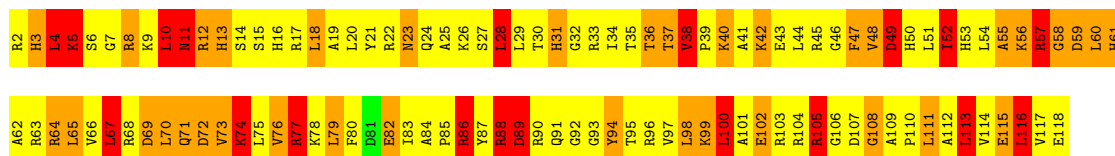
- Molecule 14: 50S ribosomal protein L16

Chain AN: 



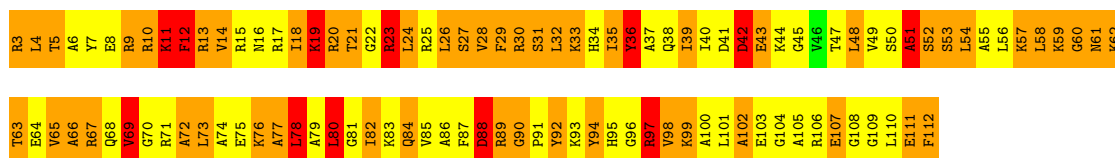
- Molecule 15: 50S ribosomal protein L17

Chain AO: 



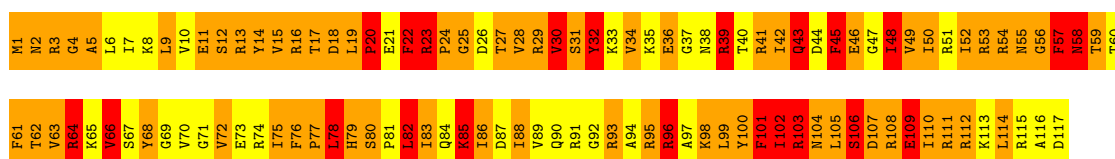
- Molecule 16: 50S ribosomal protein L18

Chain AP: 



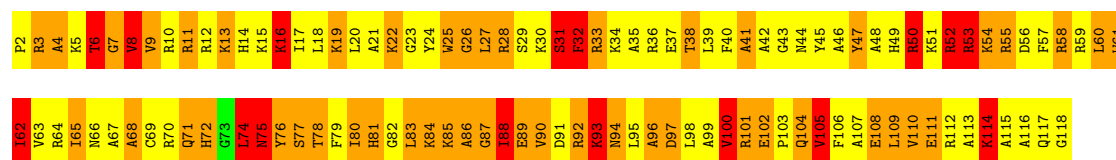
- Molecule 17: 50S ribosomal protein L19

Chain AQ: 



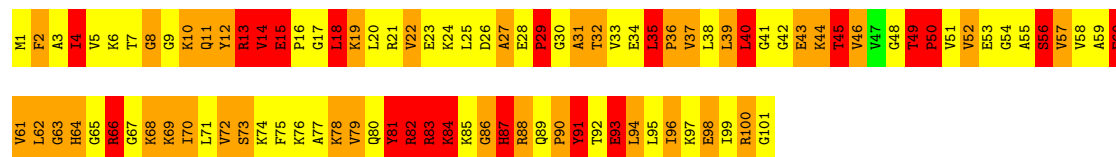
- Molecule 18: 50S ribosomal protein L20

Chain AR: 

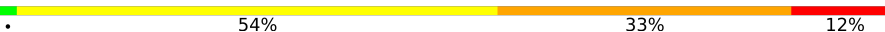


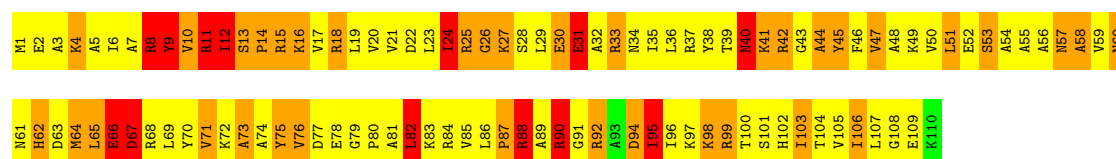
• Molecule 19: 50S ribosomal protein L21

Chain AS: 

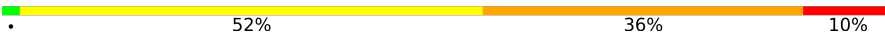


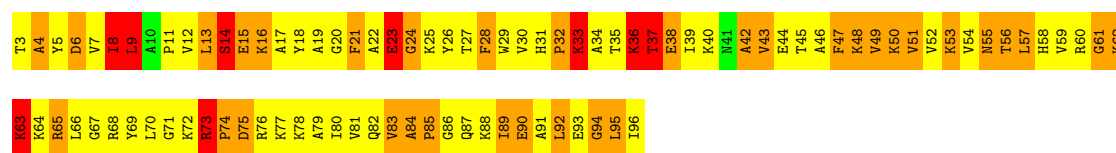
• Molecule 20: 50S ribosomal protein L22

Chain AT: 



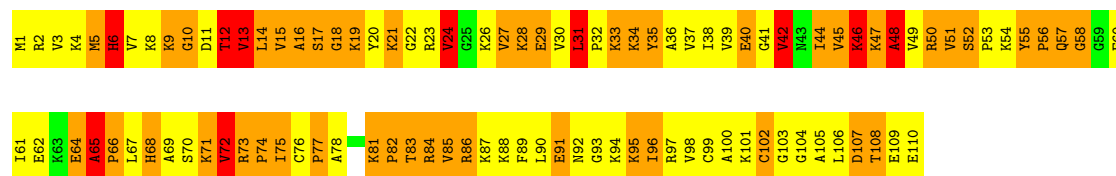
• Molecule 21: 50S ribosomal protein L23

Chain AU: 



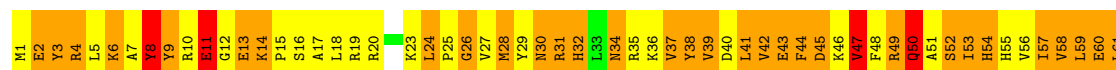
• Molecule 22: 50S ribosomal protein L24

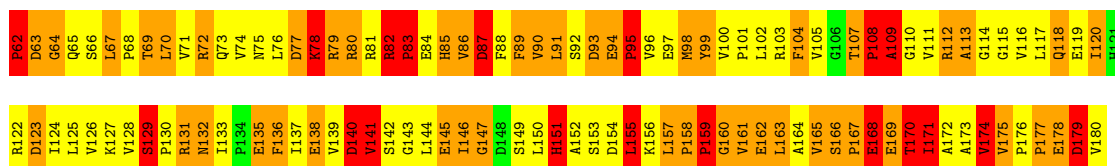
Chain AV: 



• Molecule 23: 50S ribosomal protein L25

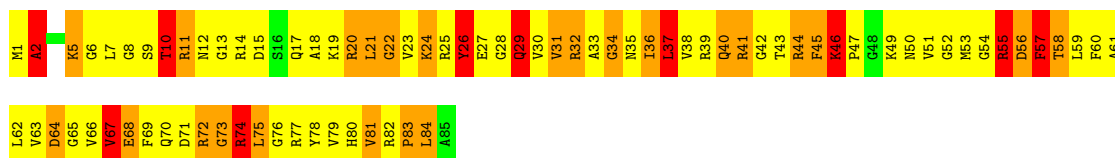
Chain AW: 





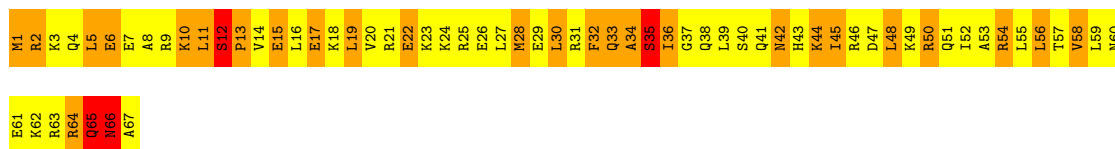
- Molecule 24: 50S ribosomal protein L27

Chain AX: 6% 54% 28% 12%



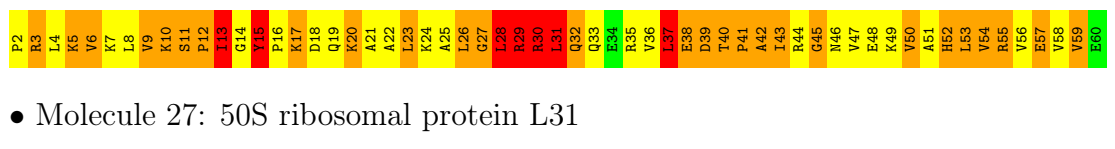
- Molecule 25: 50S ribosomal protein L29

Chain AY: 55% 39% 6%



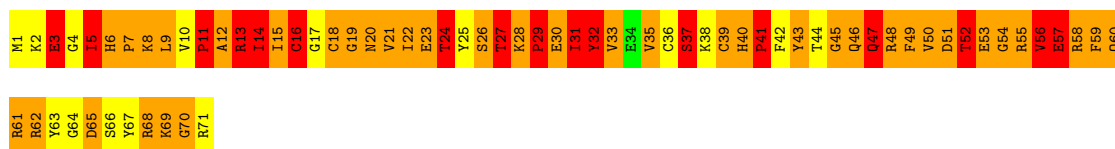
- Molecule 26: 50S ribosomal protein L30

Chain AZ: 39% 46% 12%



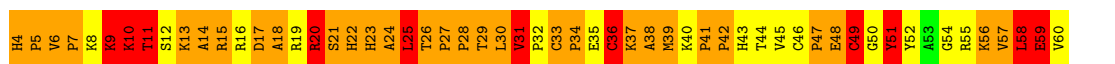
- Molecule 27: 50S ribosomal protein L31

Chain Aa: 21% 54% 24%



- Molecule 28: 50S ribosomal protein L32

Chain Ab: 28% 51% 19%



- Molecule 29: 50S ribosomal protein L33

Chain Ac: 16% 55% 27%



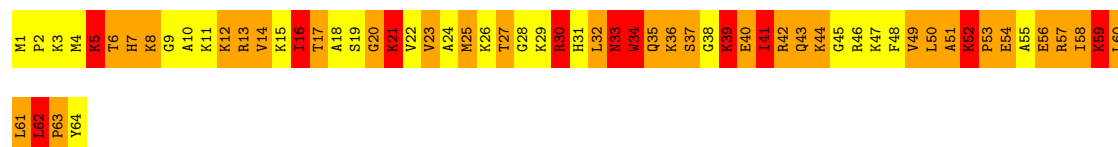
• Molecule 30: 50S ribosomal protein L34

Chain Ad: 45% 47% 8%



• Molecule 31: 50S ribosomal protein L35

Chain Ae: 36% 47% 17%



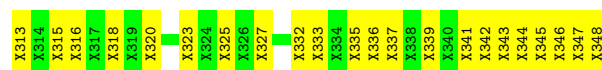
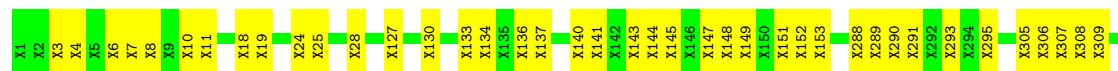
• Molecule 32: 50S ribosomal protein L36

Chain Af: 5% 54% 32% 8%



• Molecule 33: Unknown peptide

Chain Ag: 52% 48%

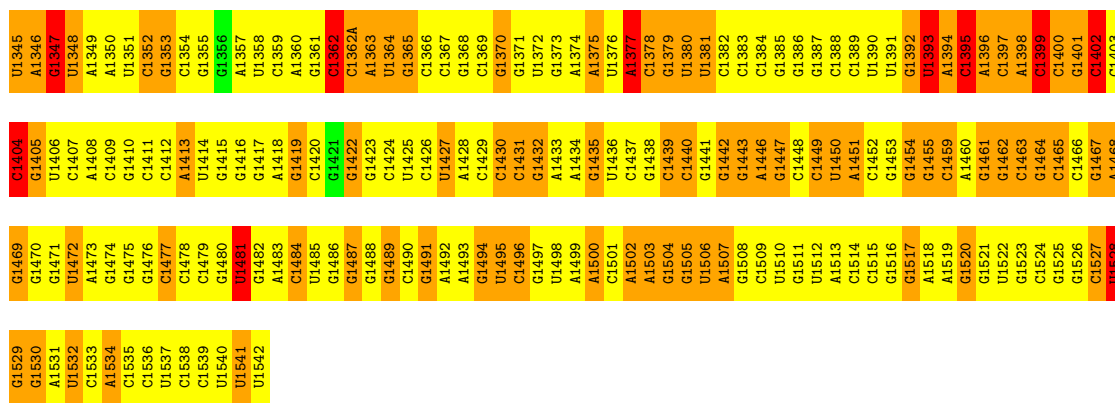


• Molecule 34: 16S ribosomal RNA

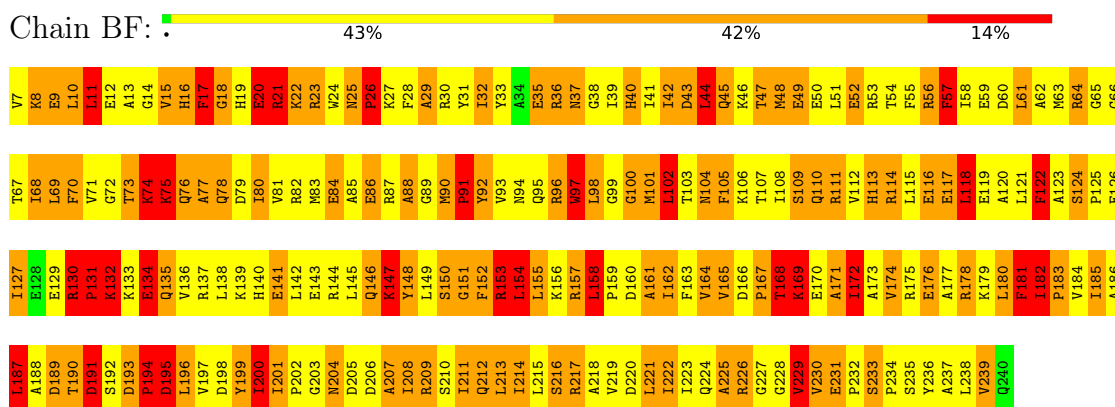
Chain BA: 57% 33% 9%



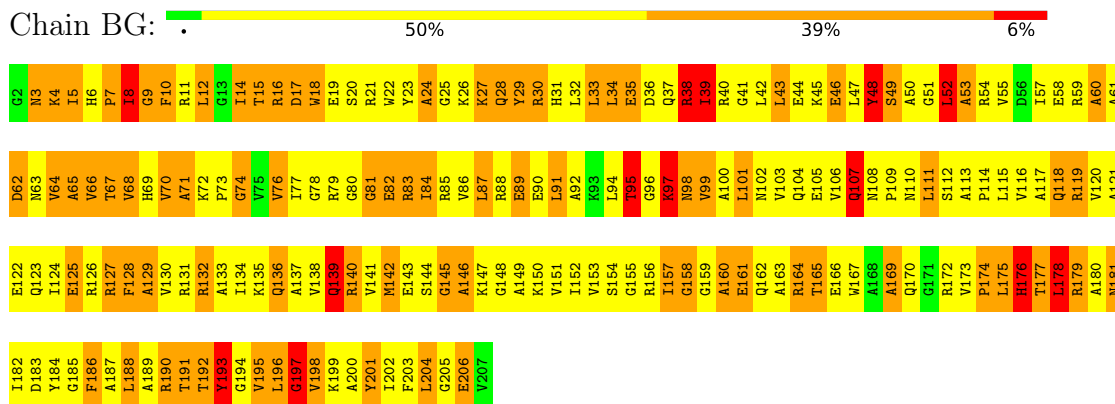
A1285	A1286	A1287	A1288	A1289	A1290	A1291	U1292	A1293	A1294	U1295	A1296	C1297	A1298	C1299	A1300	U1301	A1302	U1303	A1304	A1305	A1306	U1307	U1308	A1309	A1310	A1311	A1312	U1313	A1314	U1315	A1316	A1317	A1318	A1319	A1320	C1321	C1322	C1323	C1324	C1325	C1326	C1327	A1328	A1329	U1330	G1331	A1332	A1333	G1334	C1335	C1336	G1337	A1338	A1339	A1340	U1341	G1342	G1343	C1344																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A1225	A1226	A1227	A1228	A1229	A1230	G1231	A1232	G1233	A1234	U1235	A1236	C1237	A1238	A1239	A1240	G1241	A1242	C1243	A1244	A1245	C1246	U1247	A1248	A1249	A1250	A1251	A1252	C1253	A1254	U1255	A1256	U1257	A1258	A1259	C1260	A1261	C1262	C1263	C1264	A1265	G1266	C1267	A1268	A1269	C1270	A1271	A1272	A1273	G1274	A1275	A1276	A1277	A1278	A1279	C1280	C1281	A282	C283	A284	C285	G286	G287	U288	A289	C290	C291	C292	A293	U294	C295	U296	G297	A298	G299	A300	G301	G302	A303	U304	U305	G306	C307	C308	G309	G310																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
G1164	C1165	A1166	A1167	A1168	A1169	A1170	C1171	C1172	G1173	A1174	G1175	A1176	G1177	G1178	A1179	A1180	G1181	G1182	A1183	G1184	G1185	G1186	G1187	A1188	C1189	G1190	A1191	C1192	G1193	U1194	G1195	U1196	G1197	G1198	U1199	C1200	A1201	G1202	C1203	A1204	U1205	G1206	A1207	C1208	C1209	C1210	U1211	U1212	A1213	C1214	G1215	G1216	C1217	A1218	U1219	A1220	G1221	G1222	C1223	G1224																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
G1104	A1105	G1106	C1107	A1108	C1109	A1110	A1111	C1112	C1113	C1114	G1115	C1116	G1117	C1118	C1119	G1120	A1121	U1122	A1123	G1124	U1125	U1126	G1127	A1128	C1129	A1130	G1131	U1132	C1133	G1134	U1135	C1136	U1137	G1138	A1139	C1200	A1201	G1202	C1203	A1204	U1205	G1206	A1207	C1208	C1209	C1210	U1211	U1212	A1213	C1214	G1215	G1216	C1217	A1218	U1219	A1220	G1221	G1222	C1223	G1224																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
A1044	C1045	A1046	G1047	A1048	U1049	A1050	C1051	A996	U997	G998	C999A	U999	A1000	G1001	G1002	A1003	A1004	A1005	C1006	C1007	A1008	U1009	G1010	U1011	U1012	G1013	A1014	U1015	A1016	G1017	C1018	C1019	U1020	C1021	G1022	A1023	C1024	U1025	G1026	C1027	A1028	C1029	G1030	A1031	A1032	G1033A	A1034	A1035	G1036	C1037	G1038	A1039	U1040	A1041	U1042	C1043																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
G989	C990	U991	U992	G993	A994	C995	A996	U997	G998	C999A	U999	A1000	G1001	G1002	A1003	A1004	A1005	C1006	C1007	C1008	A1009	G1010	U1011	U1012	G1013	A1014	U1015	A1016	G1017	C1018	C1019	U1020	C1021	G1022	A1023	C1024	U1025	G1026	C1027	A1028	C1029	G1030	A1031	A1032	G1033A	A1034	A1035	G1036	C1037	G1038	A1039	U1040	A1041	U1042	C1043																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
G929	C930	U931	A932	G933	A934	C935	A936	U937	A938	C939	A940	G941	G942	U943	A944	A945	G946	C947	C948	A949	U950	G951	U952	A953	G954	U955	A956	C957	G958	A959	U960	C961	G962	A963	A964	A965	G966	C967	A968	C969	A970	A971	A972	A973	A974	A975	A976	G977	A978	C979	A980	A981	A982	A983	G984																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
G803	U804	C805	C806	A807	C808	C809	C810	C811	C812	U813	A814	A815	A816	C817	U818	A819	U820	C821	C822	G823	C824	C825	U826	C827	A828	C829	U830	C831	U832	A833	U834	C835	C836	C837	C838	C839	C840	C841	C842	U843	C844	C845	C846	C847	C848	C849	U850	C851	C852	C853	C854	C855	C856	C857	C858	C859	C860	C861	C862	C863	C864	C865	C866	C867	C868																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
U743	C744	C745	A746	C747	C748	C749	C750	U751	C752	A753	C754	C755	C756	U757	C758	A759	C760	G761	C762	G763	C764	C765	A766	C767	A768	C769	C770	C771	A772	C773	C774	C775	C776	C777	C778	C779	A780	C781	A782	C783	C784	C785	C786	A787	C788	U789	A790	C791	U792	C793	A794	C795	C796	C797	C798	C799	C800	U801	A802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
G683	A684	C685	U686	G687	C688	C689	C690	U691	A692	C693	A694	C695	A696	U697	C698	C699	G700	C701	A702	C703	A704	C705	A706	C707	C708	C709	G710	C711	A712	C713	G714	C715	A716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
A563	C564	U565	C566	C567	C568	C569	U570	C571	A572	C573	A574	C575	C576	U577	C578	A579	C580	U581	C582	A583	C584	C585	C586	C587	C588	C589	C590	U591	C592	C593	C594	C595	C596	C597	C598	C599	C600	C601	A602	C603	C604	C605	C606	A607	A608	C609	C610	A611	C612	C613	C614	C615	C616	C617	C618	U619	C620	C621	A622																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
C503	C504	U505	C506	C507	C508	A509	C510	C511	U512	C513	C514	C515	C516	U517	C518	A519	C520	C521	C522	A523	C524	C525	C526	C527	C528	C529	C530	C531	U532	C533	C534	C535	C536	C537	C538	C539	C540	C541	A542	C543	C544	C545	C546	A547	C548	C549	C550	U551	C552	A553	C554	C555	C556	C557	C558	A559	U560	C561	C562	C563	C564	C565	C566	C567	C568	C569	C570	C571	C572	C573	C574	C575	C576	C577	C578	C579	C580	C581	C582	C583	C584	C585	C586	C587	C588	C589	C590	C591	C592	C593	C594	C595	C596	C597	C598	C599	C600	C601	C602	C603	C604	C605	C606	C607	C608	C609	C610	C611	C612	C613	C614	C615	C616	C617	C618	C619	C620	C621	C622	C623	C624	C625	C626	C627	C628	C629	C630	C631	C632	C633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C621	C622	A623	C624	C625	A626	C627	C628	A629	C630	C631	C632	A633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661



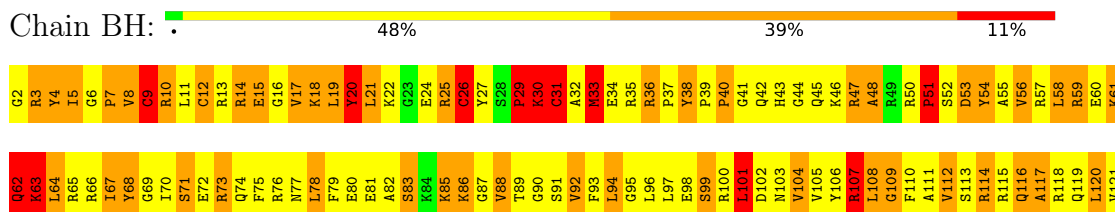
• Molecule 35: 30S ribosomal protein S2

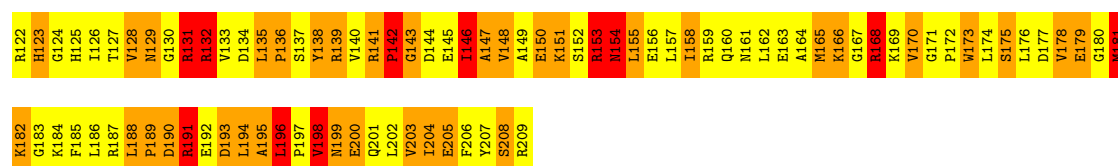


• Molecule 36: 30S ribosomal protein S3



• Molecule 37: 30S ribosomal protein S4





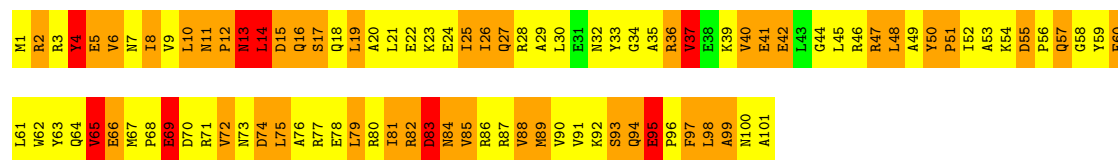
• Molecule 38: 30S ribosomal protein S5

Chain BI: . 56% 35% 8%



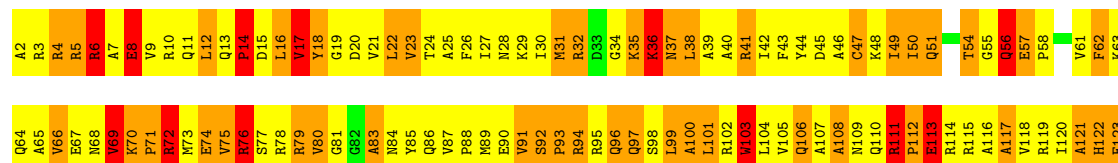
• Molecule 39: 30S ribosomal protein S6

Chain BJ: . 49% 41% 8%



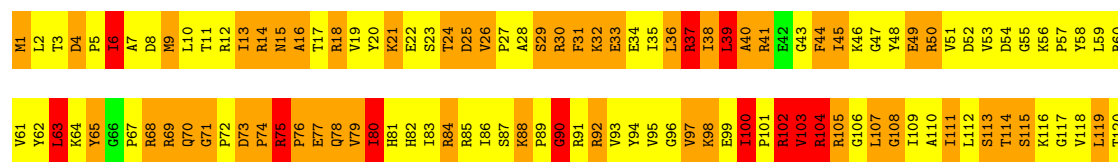
• Molecule 40: 30S ribosomal protein S7

Chain BK: . 50% 37% 9%

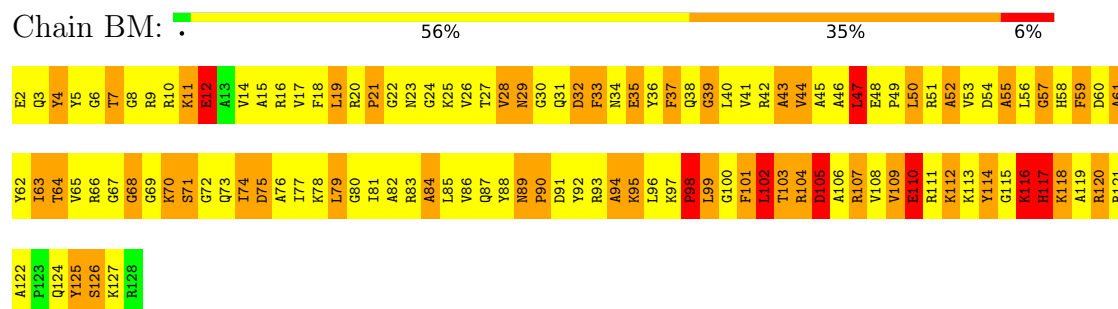


• Molecule 41: 30S ribosomal protein S8

Chain BL: . 50% 39% 9%



• Molecule 42: 30S ribosomal protein S9





- Molecule 47: 30S ribosomal protein S14 type Z

Chain BR: 7% 48% 30% 15%



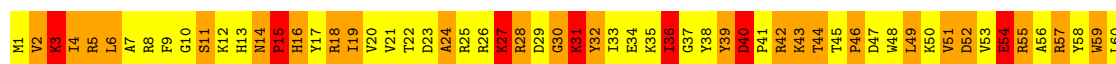
- Molecule 48: 30S ribosomal protein S15

Chain BS: 58% 34% 6%



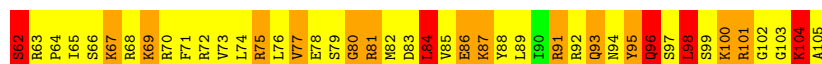
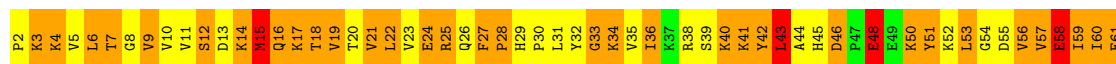
- Molecule 49: 30S ribosomal protein S16

Chain BT: 49% 40% 11%



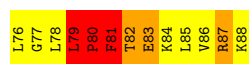
- Molecule 50: 30S ribosomal protein S17

Chain BU: 44% 43% 9%



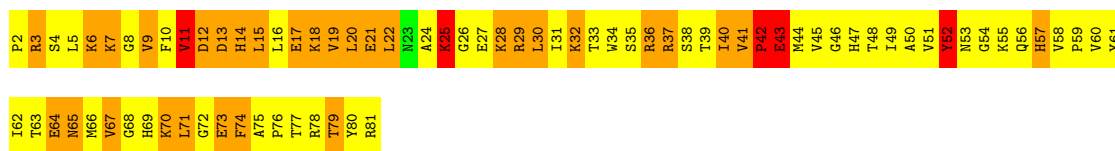
- Molecule 51: 30S ribosomal protein S18

Chain BV: 56% 29% 14%

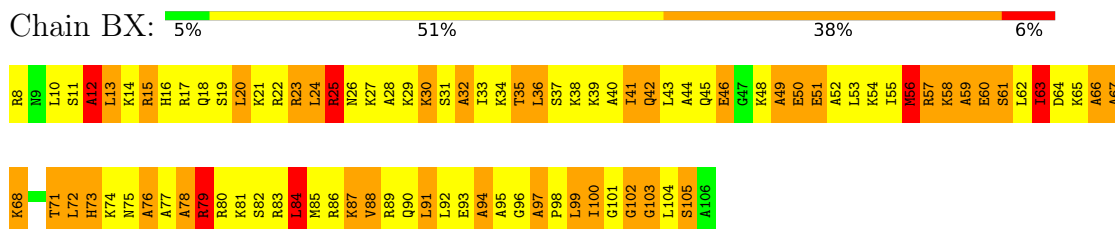


- Molecule 52: 30S ribosomal protein S19

Chain BW: 54% 39% 6%



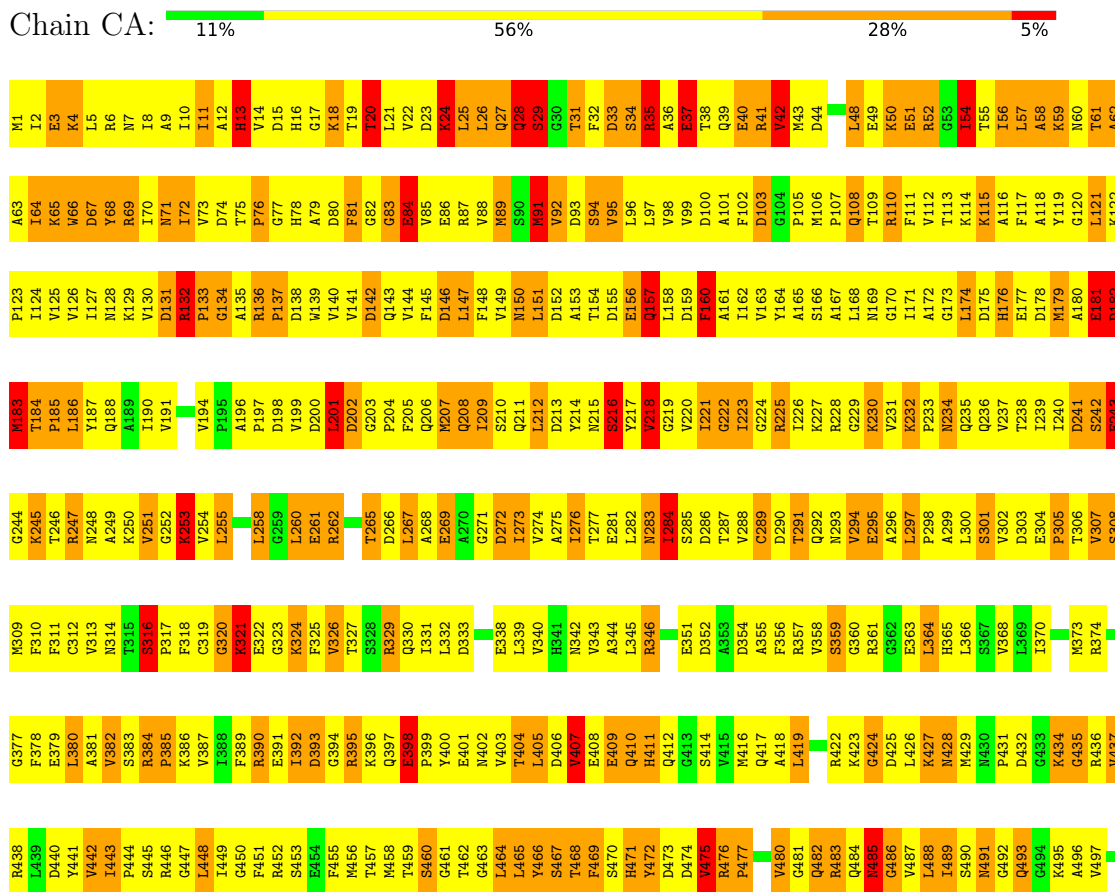
• Molecule 53: 30S ribosomal protein S20



• Molecule 54: 30S ribosomal protein Thx



• Molecule 55: BipA



A500	I572
L501	D573
F502	D574
G503	D575
L504	E576
Q505	L577
D506	V578
R507	E579
G508	V580
K509	T581
L510	P582
F511	T583
L512	S584
G513	I585
H514	R586
G515	I587
A516	R588
E517	K589
V518	L592
Y519	T593
E520	
G521	D596
Q522	R597
I523	R598
I524	R599
G525	A600
I526	N601
H527	R602
S528	A603
R529	P604
S530	K605
N531	
D532	
L533	
T534	
V535	
N536	
Q537	
L538	
T539	
G540	
K541	
K542	
D552	
E553	
A554	
V555	
V558	
I561	
T564	
L565	
E566	
Q567	
A568	
L569	
E570	
F571	

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	61165	Depositor
Resolution determination method	Not provided	
CTF correction method	CTFFIND3	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2700	Depositor
Magnification	53000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	AA	0.69	17/69677 (0.0%)	1.05	366/108754 (0.3%)
2	AB	0.56	0/2954	0.95	5/4606 (0.1%)
3	AC	0.79	0/1775	1.36	32/2393 (1.3%)
4	AD	0.97	1/2174 (0.0%)	1.76	56/2927 (1.9%)
5	AE	1.06	5/1611 (0.3%)	1.65	45/2171 (2.1%)
6	AF	0.83	0/1660	1.50	35/2247 (1.6%)
7	AG	0.83	1/1507 (0.1%)	1.53	34/2027 (1.7%)
8	AH	0.82	2/1354 (0.1%)	1.48	28/1831 (1.5%)
9	AI	0.67	1/751 (0.1%)	1.20	6/1042 (0.6%)
10	AJ	0.56	0/1012	0.91	4/1373 (0.3%)
11	AK	1.02	1/1140 (0.1%)	1.64	30/1537 (2.0%)
12	AL	1.24	3/942 (0.3%)	1.96	48/1268 (3.8%)
13	AM	1.00	2/1123 (0.2%)	1.63	33/1493 (2.2%)
14	AN	0.99	0/1100	1.76	35/1470 (2.4%)
15	AO	0.98	1/974 (0.1%)	1.60	28/1302 (2.2%)
16	AP	1.00	0/887	1.65	28/1180 (2.4%)
17	AQ	1.14	2/990 (0.2%)	1.85	34/1325 (2.6%)
18	AR	1.02	1/982 (0.1%)	1.50	21/1306 (1.6%)
19	AS	1.16	2/790 (0.3%)	1.93	32/1057 (3.0%)
20	AT	0.89	1/886 (0.1%)	1.51	17/1189 (1.4%)
21	AU	0.77	0/756	1.38	15/1015 (1.5%)
22	AV	0.75	0/857	1.57	22/1142 (1.9%)
23	AW	0.92	1/1467 (0.1%)	1.78	55/1992 (2.8%)
24	AX	0.86	0/679	1.59	21/902 (2.3%)
25	AY	0.83	0/569	1.32	8/751 (1.1%)
26	AZ	0.86	1/474 (0.2%)	1.62	13/635 (2.0%)
27	Aa	1.10	0/594	1.85	26/795 (3.3%)
28	Ab	1.03	2/459 (0.4%)	1.76	20/621 (3.2%)
29	Ac	1.10	0/433	1.88	15/576 (2.6%)
30	Ad	0.98	0/438	1.34	4/575 (0.7%)
31	Ae	0.83	0/523	1.62	18/690 (2.6%)
32	Af	0.82	0/310	1.56	6/407 (1.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
34	BA	0.65	3/36437 (0.0%)	0.99	133/56865 (0.2%)
35	BF	0.87	1/1935 (0.1%)	1.50	38/2609 (1.5%)
36	BG	0.70	0/1636	1.33	21/2205 (1.0%)
37	BH	0.89	3/1733 (0.2%)	1.42	26/2318 (1.1%)
38	BI	0.86	0/1162	1.47	22/1564 (1.4%)
39	BJ	0.85	0/856	1.28	7/1154 (0.6%)
40	BK	0.77	0/1276	1.37	21/1709 (1.2%)
41	BL	0.85	0/1136	1.35	13/1527 (0.9%)
42	BM	0.75	0/1029	1.16	9/1379 (0.7%)
43	BN	0.70	0/807	1.33	10/1085 (0.9%)
44	BO	0.85	0/900	1.58	23/1213 (1.9%)
45	BP	0.78	0/986	1.49	21/1320 (1.6%)
46	BQ	0.35	0/924	0.68	0/1238
47	BR	0.72	0/501	1.34	8/664 (1.2%)
48	BS	0.83	0/745	1.33	9/992 (0.9%)
49	BT	0.87	0/716	1.35	12/963 (1.2%)
50	BU	0.99	1/870 (0.1%)	1.51	20/1159 (1.7%)
51	BV	0.79	0/603	1.61	13/799 (1.6%)
52	BW	0.63	1/661 (0.2%)	1.31	4/890 (0.4%)
53	BX	0.94	0/765	1.28	8/1007 (0.8%)
54	BY	0.57	0/212	1.26	3/277 (1.1%)
55	CA	0.40	2/4598 (0.0%)	0.74	4/6200 (0.1%)
All	All	0.74	55/162336 (0.0%)	1.17	1565/241736 (0.6%)

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	0	430
2	AB	0	17
3	AC	0	1
5	AE	0	1
6	AF	0	1
9	AI	0	2
11	AK	0	1
14	AN	0	1
17	AQ	0	1
19	AS	0	1
27	Aa	0	1
28	Ab	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
34	BA	0	170
37	BH	0	1
39	BJ	0	1
44	BO	0	1
47	BR	0	1
55	CA	0	1
All	All	0	633

All (55) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1060	U	O3'-P	-64.22	0.64	1.61
34	BA	1317	C	O3'-P	-56.08	0.77	1.61
1	AA	1203	G	O3'-P	-27.75	1.19	1.61
34	BA	1167	A	O3'-P	16.69	1.86	1.61
9	AI	153	LEU	C-N	-15.26	1.11	1.33
37	BH	146	ILE	CA-CB	-13.39	1.45	1.55
1	AA	2500	U	O3'-P	-12.09	1.43	1.61
1	AA	2448	A	O3'-P	-11.54	1.43	1.61
1	AA	1240	U	O3'-P	-10.76	1.45	1.61
1	AA	2756	U	O3'-P	10.66	1.77	1.61
12	AL	98	VAL	CA-C	8.72	1.60	1.52
50	BU	21	VAL	CA-CB	-8.57	1.42	1.55
4	AD	245	PRO	CA-C	7.89	1.59	1.52
1	AA	1202	C	O3'-P	-7.86	1.49	1.61
1	AA	2499	C	O3'-P	7.54	1.72	1.61
1	AA	2500	U	C4-O4	7.41	1.38	1.23
37	BH	12	CYS	CA-CB	7.27	1.65	1.53
1	AA	2755	C	O3'-P	7.11	1.71	1.61
5	AE	135	HIS	CA-C	6.93	1.62	1.52
55	CA	316	SER	C-N	6.91	1.39	1.33
1	AA	607	U	N3-C4	-6.51	1.25	1.38
12	AL	98	VAL	CA-CB	6.45	1.62	1.53
19	AS	61	VAL	CA-C	-6.41	1.44	1.52
1	AA	2447	G	O3'-P	-6.25	1.51	1.61
11	AK	46	VAL	CA-CB	6.05	1.62	1.54
1	AA	1204	A	O3'-P	6.02	1.70	1.61
8	AH	11	VAL	CA-CB	5.95	1.61	1.54
5	AE	25	VAL	CA-CB	-5.87	1.47	1.54
28	Ab	11	THR	CA-CB	5.82	1.63	1.53
20	AT	96	ILE	CA-CB	-5.72	1.46	1.55
1	AA	621	A	C6-N6	5.64	1.45	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	AM	71	VAL	CA-CB	5.59	1.61	1.54
1	AA	2448	A	C5'-C4'	5.58	1.59	1.51
23	AW	39	VAL	CA-CB	5.56	1.60	1.53
52	BW	2	PRO	CA-C	5.56	1.64	1.52
34	BA	579	G	C3'-O3'	5.48	1.50	1.42
5	AE	135	HIS	CA-CB	5.48	1.62	1.53
28	Ab	11	THR	N-CA	5.42	1.53	1.46
13	AM	71	VAL	CA-C	5.40	1.58	1.52
18	AR	89	GLU	CA-C	5.37	1.58	1.52
15	AO	36	THR	CA-CB	5.36	1.59	1.54
1	AA	2195	C	C3'-O3'	5.35	1.50	1.42
17	AQ	66	VAL	CA-CB	-5.34	1.47	1.54
37	BH	12	CYS	N-CA	5.33	1.52	1.46
8	AH	17	VAL	CA-CB	5.30	1.60	1.53
26	AZ	13	ILE	CA-CB	5.28	1.61	1.54
7	AG	149	VAL	CA-CB	5.27	1.61	1.54
5	AE	198	VAL	CA-CB	-5.26	1.46	1.55
17	AQ	34	VAL	CA-CB	-5.17	1.47	1.54
35	BF	214	ILE	CA-CB	-5.14	1.48	1.54
12	AL	83	ALA	CA-CB	-5.14	1.45	1.53
19	AS	81	TYR	CB-CG	5.14	1.62	1.51
1	AA	1993	U	N1-C2	5.14	1.48	1.38
55	CA	558	VAL	C-N	5.14	1.39	1.33
5	AE	135	HIS	N-CA	5.11	1.52	1.46

All (1565) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1317	C	P-O3'-C3'	-39.34	61.18	120.20
34	BA	1317	C	O3'-P-O5'	38.74	162.12	104.00
1	AA	1060	U	O3'-P-O5'	36.31	158.46	104.00
1	AA	2448	A	C5'-C4'-O4'	-21.83	76.36	109.10
1	AA	1203	G	P-O3'-C3'	21.78	152.87	120.20
34	BA	1064	G	N1-C2-N2	-21.50	51.71	116.20
36	BG	48	TYR	N-CA-C	-21.21	86.15	113.72
9	AI	153	LEU	O-C-N	-18.88	97.46	122.19
34	BA	1317	C	OP2-P-O3'	-18.16	53.51	108.00
17	AQ	66	VAL	N-CA-C	-17.84	82.43	108.12
1	AA	1060	U	OP1-P-O3'	-17.80	54.60	108.00
52	BW	2	PRO	O-C-N	16.59	149.54	123.00
16	AP	63	THR	N-CA-C	-16.51	93.06	112.87
19	AS	49	THR	CA-C-N	16.49	140.45	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	AS	49	THR	C-N-CA	16.49	140.45	119.84
29	Ac	24	GLU	N-CA-C	16.31	136.22	113.56
17	AQ	29	ARG	N-CA-C	-15.91	85.75	110.42
14	AN	125	LEU	CA-C-N	-15.88	100.00	119.84
14	AN	125	LEU	C-N-CA	-15.88	100.00	119.84
4	AD	63	ARG	N-CA-C	15.29	133.12	110.48
52	BW	2	PRO	CA-C-O	-14.76	74.72	119.00
23	AW	52	SER	N-CA-C	-14.74	93.17	112.34
34	BA	973	G	O3'-P-O5'	14.59	125.88	104.00
4	AD	250	TRP	N-CA-C	14.09	128.71	110.53
7	AG	95	ARG	N-CA-C	14.02	131.26	112.90
12	AL	98	VAL	N-CA-C	13.78	120.96	106.21
23	AW	39	VAL	N-CA-C	13.67	126.44	108.12
34	BA	1064	G	N3-C2-N2	13.46	160.28	119.90
16	AP	65	VAL	N-CA-C	-13.43	95.31	110.62
11	AK	49	GLY	N-CA-C	-13.43	99.10	115.08
9	AI	153	LEU	CA-C-N	13.30	147.48	121.41
9	AI	153	LEU	C-N-CA	13.30	147.48	121.41
15	AO	38	VAL	CA-C-N	-13.27	106.16	119.56
15	AO	38	VAL	C-N-CA	-13.27	106.16	119.56
4	AD	260	ARG	N-CA-C	-13.17	96.98	111.07
51	BV	51	LEU	CA-C-N	13.03	136.13	119.84
51	BV	51	LEU	C-N-CA	13.03	136.13	119.84
8	AH	165	ALA	N-CA-C	-12.97	95.89	112.23
4	AD	80	ALA	N-CA-C	-12.72	97.50	111.36
1	AA	1203	G	O3'-P-O5'	12.69	123.04	104.00
1	AA	1204	A	N9-C1'-C2'	12.66	132.99	114.00
4	AD	220	HIS	N-CA-C	12.63	124.37	108.45
4	AD	159	ALA	N-CA-C	-12.56	98.21	113.15
4	AD	248	SER	CA-C-N	12.44	135.38	119.84
4	AD	248	SER	C-N-CA	12.44	135.38	119.84
4	AD	19	ALA	N-CA-C	-12.29	99.07	113.21
44	BO	126	ARG	N-CA-C	-12.24	98.48	113.41
19	AS	98	GLU	N-CA-C	12.11	128.00	109.96
5	AE	5	LEU	N-CA-C	12.10	127.45	109.07
19	AS	94	LEU	N-CA-C	-12.08	92.40	110.28
40	BK	132	GLY	N-CA-C	11.98	127.02	111.09
4	AD	45	ASN	N-CA-C	-11.64	91.43	110.17
11	AK	104	LYS	N-CA-C	-11.57	97.23	111.11
4	AD	131	LEU	N-CA-C	11.55	118.61	108.22
37	BH	19	LEU	N-CA-C	-11.53	94.06	111.81
23	AW	61	LEU	CA-C-N	11.44	134.14	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AW	61	LEU	C-N-CA	11.44	134.14	119.84
28	Ab	13	LYS	N-CA-C	-11.41	92.54	111.37
12	AL	74	GLY	N-CA-C	-11.40	92.14	112.54
4	AD	51	VAL	N-CA-C	11.22	123.69	107.75
13	AM	71	VAL	CA-C-N	11.22	133.86	119.84
13	AM	71	VAL	C-N-CA	11.22	133.86	119.84
37	BH	26	CYS	N-CA-C	-11.21	99.64	113.20
20	AT	76	VAL	N-CA-C	11.21	124.87	108.96
1	AA	2459	A	N9-C1'-C2'	11.14	128.72	112.00
18	AR	28	ARG	N-CA-C	-11.05	100.00	113.15
27	Aa	31	ILE	N-CA-C	11.04	124.96	107.73
5	AE	195	LEU	N-CA-C	11.03	126.83	109.07
16	AP	62	LYS	N-CA-C	10.98	126.09	109.62
1	AA	1060	U	OP2-P-O3'	-10.95	75.16	108.00
15	AO	69	ASP	N-CA-C	10.91	125.11	111.69
7	AG	47	LYS	N-CA-C	10.88	124.36	110.33
29	Ac	39	TYR	N-CA-C	10.83	133.87	110.80
11	AK	124	ALA	N-CA-C	-10.81	100.32	113.19
35	BF	132	LYS	N-CA-C	-10.78	99.32	111.71
1	AA	1240	U	O3'-P-O5'	10.73	120.10	104.00
35	BF	214	ILE	N-CA-C	10.71	120.60	110.53
1	AA	2501	C	O3'-P-O5'	10.68	120.02	104.00
22	AV	50	ARG	N-CA-C	-10.66	99.81	112.92
22	AV	5	MET	N-CA-C	10.65	122.29	108.34
22	AV	12	THR	N-CA-C	10.59	123.80	108.86
34	BA	974	A	O3'-P-O5'	10.59	119.89	104.00
4	AD	245	PRO	N-CA-C	10.58	123.61	110.70
1	AA	2384	G	N9-C1'-C2'	10.56	129.84	114.00
20	AT	62	HIS	N-CA-C	-10.55	99.14	113.18
12	AL	94	ARG	N-CA-C	10.53	123.24	110.19
51	BV	79	LEU	CA-C-N	10.51	132.97	119.84
51	BV	79	LEU	C-N-CA	10.51	132.97	119.84
6	AF	198	ALA	N-CA-C	-10.50	99.53	110.97
45	BP	29	GLY	N-CA-C	-10.47	101.54	113.79
40	BK	100	ALA	N-CA-C	-10.47	99.67	111.71
4	AD	272	ALA	N-CA-C	10.45	127.59	108.58
18	AR	104	GLN	N-CA-C	-10.45	99.58	110.97
17	AQ	14	TYR	N-CA-C	10.35	122.32	111.14
37	BH	10	ARG	N-CA-C	-10.34	100.01	111.28
44	BO	112	THR	CA-C-N	10.32	132.74	119.84
44	BO	112	THR	C-N-CA	10.32	132.74	119.84
38	BI	111	GLU	N-CA-C	-10.28	100.08	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AN	82	ARG	N-CA-C	-10.26	93.61	109.52
5	AE	65	GLY	N-CA-C	-10.26	100.32	112.83
19	AS	12	TYR	N-CA-C	10.23	124.97	109.41
27	Aa	69	LYS	N-CA-C	-10.23	100.12	111.07
12	AL	100	GLY	CA-C-N	10.22	132.61	119.84
12	AL	100	GLY	C-N-CA	10.22	132.61	119.84
23	AW	6	LYS	N-CA-C	10.14	123.72	110.43
45	BP	119	LYS	N-CA-C	-10.14	96.21	110.50
29	Ac	22	ALA	N-CA-C	10.13	125.97	113.50
23	AW	82	ARG	CA-C-N	-10.06	107.26	119.84
23	AW	82	ARG	C-N-CA	-10.06	107.26	119.84
12	AL	6	THR	N-CA-C	10.01	125.87	108.75
37	BH	33	MET	N-CA-C	-9.96	100.25	111.71
24	AX	26	TYR	N-CA-C	9.95	124.86	110.24
50	BU	77	VAL	N-CA-C	-9.94	103.85	111.90
28	Ab	41	PRO	N-CA-C	-9.92	98.60	110.70
17	AQ	64	ARG	N-CA-C	9.89	122.58	110.41
51	BV	53	ARG	N-CA-C	-9.85	99.41	111.33
15	AO	48	VAL	N-CA-C	-9.85	97.58	111.17
16	AP	13	ARG	N-CA-C	-9.85	99.14	111.75
17	AQ	60	THR	N-CA-C	-9.84	93.74	109.59
23	AW	171	ILE	N-CA-C	-9.84	100.28	111.00
48	BS	37	ASN	N-CA-C	9.84	121.69	110.97
11	AK	56	ASN	N-CA-C	-9.83	100.28	112.47
1	AA	1666	G	C2'-C3'-O3'	-9.81	98.98	113.70
13	AM	65	ARG	N-CA-C	9.76	121.64	107.88
7	AG	67	LYS	CA-C-N	9.76	132.03	119.84
7	AG	67	LYS	C-N-CA	9.76	132.03	119.84
20	AT	57	ASN	N-CA-C	-9.70	99.47	111.11
1	AA	2460	U	N1-C1'-C2'	9.70	126.55	112.00
1	AA	2581	G	N9-C1'-C2'	9.68	126.52	112.00
1	AA	2522	U	N1-C1'-C2'	9.67	126.50	112.00
6	AF	41	LEU	N-CA-C	-9.63	100.78	111.28
43	BN	62	HIS	N-CA-C	9.60	123.27	108.96
4	AD	251	GLY	N-CA-C	-9.59	94.09	111.25
43	BN	32	ALA	N-CA-C	-9.57	100.91	112.59
11	AK	139	GLU	N-CA-C	9.57	123.06	108.52
25	AY	10	LYS	N-CA-C	9.53	122.65	111.02
26	AZ	10	LYS	N-CA-C	9.53	123.82	108.76
18	AR	11	ARG	N-CA-C	-9.51	99.69	111.11
1	AA	1625	C	N1-C1'-C2'	9.51	126.26	112.00
37	BH	20	TYR	N-CA-C	-9.51	99.58	111.75

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	13	VAL	N-CA-C	9.49	122.65	109.55
23	AW	151	HIS	N-CA-C	9.48	120.42	108.19
27	Aa	37	SER	N-CA-C	9.48	120.75	108.24
12	AL	40	VAL	N-CA-C	9.48	122.27	108.53
6	AF	179	GLU	N-CA-C	-9.47	100.32	113.20
49	BT	16	HIS	N-CA-C	-9.47	96.86	110.59
26	AZ	54	VAL	N-CA-C	9.45	121.75	108.23
54	BY	16	GLY	N-CA-C	-9.45	102.11	115.43
13	AM	7	ARG	CA-C-N	9.44	131.64	119.84
13	AM	7	ARG	C-N-CA	9.44	131.64	119.84
1	AA	2491	U	O4'-C1'-C2'	-9.43	98.17	107.60
23	AW	77	ASP	N-CA-C	9.40	130.83	110.80
54	BY	5	ASP	N-CA-C	-9.39	100.92	112.38
31	Ae	59	LYS	N-CA-C	-9.38	100.75	110.97
34	BA	1317	C	OP1-P-O3'	-9.37	79.88	108.00
4	AD	16	MET	N-CA-C	-9.37	92.22	108.52
44	BO	47	VAL	N-CA-C	-9.34	100.81	111.00
4	AD	94	LEU	N-CA-C	-9.32	94.13	108.96
40	BK	57	GLU	N-CA-C	9.26	122.86	110.08
1	AA	2490	G	N9-C1'-C2'	9.24	127.85	114.00
30	Ad	45	ALA	N-CA-C	-9.24	101.91	113.55
43	BN	4	ILE	N-CA-C	9.23	121.04	108.11
6	AF	173	VAL	N-CA-C	9.23	122.46	108.71
29	Ac	26	ASN	N-CA-C	9.18	130.35	110.80
37	BH	132	ARG	N-CA-C	9.17	122.08	108.14
6	AF	162	LEU	N-CA-C	-9.16	100.68	112.23
23	AW	87	ASP	N-CA-C	9.15	123.44	108.52
3	AC	189	ILE	N-CA-C	-9.15	100.75	110.36
49	BT	46	PRO	N-CA-C	-9.11	102.47	113.86
15	AO	102	GLU	N-CA-C	9.11	120.27	108.34
45	BP	86	ARG	N-CA-C	-9.10	101.73	112.92
50	BU	91	ARG	N-CA-C	-9.10	101.25	111.71
27	Aa	47	GLN	N-CA-C	9.09	124.13	108.76
34	BA	484	G	C2'-C3'-O3'	9.09	123.14	109.50
22	AV	51	VAL	N-CA-C	-9.08	101.99	110.53
19	AS	50	PRO	N-CA-C	9.08	131.18	112.47
5	AE	184	VAL	N-CA-C	9.04	121.88	113.20
1	AA	1938	A	N9-C1'-C2'	9.03	127.55	114.00
39	BJ	19	LEU	N-CA-C	-9.03	100.28	111.11
1	AA	1951	U	N1-C1'-C2'	8.99	125.49	112.00
44	BO	65	ALA	N-CA-C	-8.99	100.05	111.02
5	AE	176	ILE	CA-C-N	8.99	129.16	119.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	176	ILE	C-N-CA	8.99	129.16	119.28
38	BI	101	ILE	N-CA-C	8.99	120.79	106.32
1	AA	686	G	C2'-C3'-O3'	-8.95	100.28	113.70
1	AA	2448	A	O5'-C5'-C4'	-8.93	98.31	111.70
50	BU	61	GLU	N-CA-C	-8.92	96.67	109.96
35	BF	216	SER	N-CA-C	-8.92	101.25	110.97
14	AN	8	LYS	N-CA-C	-8.91	100.35	112.03
12	AL	44	LYS	N-CA-C	-8.91	101.32	112.72
21	AU	94	GLY	N-CA-C	-8.91	101.86	112.64
4	AD	135	PHE	N-CA-C	-8.89	102.99	113.21
34	BA	372	C	C2'-C3'-O3'	8.88	122.83	109.50
23	AW	32	HIS	N-CA-C	8.88	123.48	112.47
1	AA	1313	U	N1-C1'-C2'	8.85	125.28	112.00
35	BF	90	MET	CA-C-N	8.85	130.90	119.84
35	BF	90	MET	C-N-CA	8.85	130.90	119.84
20	AT	24	ILE	N-CA-C	8.84	122.14	111.09
37	BH	62	GLN	N-CA-C	8.83	120.60	110.97
43	BN	23	ILE	N-CA-C	8.82	119.63	110.72
22	AV	9	LYS	N-CA-C	-8.82	101.67	111.28
35	BF	146	GLN	N-CA-C	-8.79	101.27	111.03
1	AA	2491	U	C2'-C3'-O3'	8.78	126.88	113.70
34	BA	1004	A	C2'-C3'-O3'	8.79	122.68	109.50
17	AQ	17	THR	N-CA-C	-8.78	98.94	110.53
7	AG	75	LYS	N-CA-C	-8.76	102.54	113.23
19	AS	87	HIS	N-CA-C	8.76	121.21	108.86
19	AS	96	ILE	N-CA-C	8.76	122.18	108.87
4	AD	49	ILE	N-CA-C	-8.74	91.16	109.34
5	AE	141	ILE	N-CA-C	8.72	127.47	109.34
15	AO	31	HIS	N-CA-C	8.69	124.11	113.17
37	BH	205	GLU	N-CA-C	-8.68	101.50	110.97
7	AG	77	ILE	N-CA-C	-8.68	100.20	111.05
26	AZ	38	GLU	N-CA-C	-8.64	96.70	109.15
14	AN	44	ALA	N-CA-C	-8.64	100.74	111.11
38	BI	110	LEU	N-CA-C	8.61	120.74	111.36
13	AM	51	PHE	N-CA-C	-8.60	100.53	111.02
18	AR	16	LYS	N-CA-C	-8.60	100.53	111.02
5	AE	114	ALA	N-CA-C	8.59	122.40	109.25
26	AZ	15	TYR	N-CA-C	8.58	115.85	108.13
38	BI	83	GLU	N-CA-C	-8.57	94.61	108.41
1	AA	1992	G	N9-C1'-C2'	8.57	126.85	114.00
6	AF	60	SER	N-CA-C	-8.55	95.26	109.46
23	AW	8	TYR	N-CA-C	-8.55	100.97	111.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AM	105	LEU	N-CA-C	8.55	122.48	107.61
3	AC	6	ARG	N-CA-C	-8.55	102.29	112.89
14	AN	114	ALA	N-CA-C	-8.53	100.88	111.11
27	Aa	32	TYR	N-CA-C	8.52	128.95	110.80
34	BA	314	C	C2'-C3'-O3'	-8.52	100.92	113.70
35	BF	164	VAL	N-CA-C	8.52	121.64	108.44
34	BA	173	U	P-O3'-C3'	8.49	132.94	120.20
34	BA	974	A	N9-C1'-C2'	8.47	126.70	114.00
31	Ae	6	THR	N-CA-C	-8.46	93.18	108.58
49	BT	40	ASP	CA-C-N	8.46	128.10	119.56
49	BT	40	ASP	C-N-CA	8.46	128.10	119.56
13	AM	30	THR	N-CA-C	8.45	128.81	110.80
14	AN	76	LYS	N-CA-C	-8.45	102.53	112.92
29	Ac	42	TRP	N-CA-C	-8.43	102.90	113.02
45	BP	120	TYR	N-CA-C	-8.43	100.36	111.74
12	AL	117	LEU	N-CA-C	8.40	120.13	110.97
48	BS	53	HIS	N-CA-C	-8.39	100.78	111.02
27	Aa	40	HIS	CA-C-N	8.39	130.32	119.84
27	Aa	40	HIS	C-N-CA	8.39	130.32	119.84
1	AA	1498	C	N1-C1'-C2'	8.33	124.50	112.00
40	BK	76	ARG	N-CA-C	-8.33	96.55	108.96
34	BA	172	A	OP1-P-O3'	8.31	132.92	108.00
45	BP	58	VAL	N-CA-C	8.30	121.30	108.44
11	AK	51	PHE	N-CA-C	-8.29	93.97	108.23
1	AA	775	G	N9-C1'-C2'	8.29	124.44	112.00
24	AX	44	ARG	N-CA-C	-8.29	103.15	113.18
44	BO	103	LEU	N-CA-C	-8.26	102.22	112.47
40	BK	145	ALA	N-CA-C	-8.25	99.13	110.35
1	AA	2446	G	P-O3'-C3'	8.25	132.57	120.20
17	AQ	43	GLN	N-CA-C	-8.25	94.10	108.20
1	AA	2501	C	P-O3'-C3'	-8.23	107.86	120.20
34	BA	172	A	O3'-P-O5'	-8.22	91.67	104.00
14	AN	113	GLN	N-CA-C	-8.21	102.27	111.14
17	AQ	57	PHE	N-CA-C	8.21	126.28	107.48
1	AA	2032	G	N9-C1'-C2'	8.19	126.29	114.00
35	BF	43	ASP	N-CA-C	8.19	122.98	109.06
8	AH	111	HIS	N-CA-C	8.19	127.90	109.81
24	AX	11	ARG	N-CA-C	8.19	123.18	108.69
1	AA	801	G	N9-C1'-C2'	8.17	126.26	114.00
47	BR	40	CYS	N-CA-C	-8.13	98.45	110.48
1	AA	2591	C	C4'-C3'-O3'	-8.13	100.81	113.00
11	AK	82	LEU	N-CA-C	-8.12	103.46	112.72

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	793	U	N1-C1'-C2'	8.12	126.18	114.00
12	AL	15	GLY	N-CA-C	-8.10	93.98	113.18
29	Ac	37	ARG	N-CA-C	8.10	128.06	110.80
6	AF	79	GLY	N-CA-C	-8.09	94.01	113.18
21	AU	21	PHE	N-CA-C	-8.09	101.40	111.11
16	AP	88	ASP	N-CA-C	8.09	118.56	107.73
44	BO	80	VAL	N-CA-C	8.06	119.00	107.88
14	AN	83	MET	N-CA-C	8.06	122.38	109.24
4	AD	193	VAL	N-CA-C	8.05	119.36	109.30
47	BR	53	LEU	CA-C-N	8.05	129.90	119.84
47	BR	53	LEU	C-N-CA	8.05	129.90	119.84
1	AA	776	G	N9-C1'-C2'	8.04	126.06	114.00
13	AM	40	SER	N-CA-C	8.04	121.66	112.57
18	AR	68	ALA	N-CA-C	8.04	119.67	111.07
5	AE	158	GLY	N-CA-C	8.03	127.64	112.62
19	AS	27	ALA	N-CA-C	-8.03	103.20	113.16
1	AA	974(A)	C	N1-C1'-C2'	8.02	126.04	114.00
14	AN	72	LYS	CA-C-N	8.02	129.86	119.84
14	AN	72	LYS	C-N-CA	8.02	129.86	119.84
35	BF	187	LEU	N-CA-C	-8.01	97.19	109.85
12	AL	23	ARG	N-CA-C	7.99	119.09	108.07
34	BA	1528	U	N1-C1'-C2'	7.99	125.98	114.00
8	AH	83	TYR	N-CA-C	7.98	122.98	107.98
23	AW	2	GLU	N-CA-C	7.98	121.03	109.14
7	AG	100	TRP	N-CA-C	7.96	119.96	111.28
41	BL	75	ARG	CA-C-N	7.95	129.78	119.84
41	BL	75	ARG	C-N-CA	7.95	129.78	119.84
7	AG	101	ILE	N-CA-C	-7.95	101.12	111.05
23	AW	69	THR	N-CA-C	7.94	121.14	109.07
1	AA	1800	C	N1-C1'-C2'	-7.94	100.09	112.00
11	AK	75	TYR	N-CA-C	-7.93	98.29	111.37
12	AL	18	LYS	N-CA-C	7.92	122.71	108.69
19	AS	83	ARG	N-CA-C	7.92	120.62	108.42
1	AA	2035	G	N9-C1'-C2'	7.91	123.86	112.00
45	BP	75	HIS	N-CA-C	7.90	119.13	108.23
15	AO	3	HIS	N-CA-C	7.89	122.66	110.20
37	BH	9	CYS	N-CA-C	-7.88	103.42	112.87
17	AQ	85	LYS	N-CA-C	7.87	122.64	110.20
3	AC	139	ASN	CA-C-N	7.87	129.68	119.84
3	AC	139	ASN	C-N-CA	7.87	129.68	119.84
38	BI	76	ILE	CA-C-N	7.87	129.68	119.84
38	BI	76	ILE	C-N-CA	7.87	129.68	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AL	108	GLU	N-CA-C	-7.86	101.69	111.75
41	BL	16	ALA	N-CA-C	-7.86	101.82	111.33
1	AA	331	A	C2'-C3'-O3'	7.85	121.28	109.50
44	BO	58	PRO	N-CA-C	-7.85	103.64	113.84
19	AS	70	ILE	N-CA-C	-7.84	98.55	109.21
11	AK	117	PHE	N-CA-C	-7.83	101.85	111.33
44	BO	29	ILE	N-CA-C	7.83	121.50	108.81
35	BF	30	ARG	N-CA-C	7.82	121.77	111.75
1	AA	1477	A	C2'-C3'-O3'	-7.82	101.97	113.70
5	AE	136	ARG	N-CA-C	7.82	122.21	109.85
1	AA	2755	C	OP1-P-O3'	-7.82	84.55	108.00
4	AD	60	ARG	N-CA-C	7.81	121.20	107.61
3	AC	213	TYR	N-CA-C	7.81	119.87	108.86
1	AA	2491	U	O4'-C4'-C3'	-7.81	96.19	104.00
8	AH	111	HIS	CA-C-N	-7.80	110.09	119.84
8	AH	111	HIS	C-N-CA	-7.80	110.09	119.84
39	BJ	93	SER	N-CA-C	7.79	122.77	108.58
1	AA	199	A	N9-C1'-C2'	7.77	125.66	114.00
32	Af	15	LYS	N-CA-C	7.76	122.10	109.76
1	AA	2587	A	N9-C1'-C2'	7.76	123.64	112.00
3	AC	33	ALA	N-CA-C	7.75	121.13	108.26
17	AQ	49	VAL	N-CA-C	-7.75	97.11	108.89
15	AO	67	LEU	N-CA-C	-7.74	102.79	111.07
8	AH	35	VAL	CA-C-N	7.73	127.77	119.89
8	AH	35	VAL	C-N-CA	7.73	127.77	119.89
15	AO	116	LEU	N-CA-C	-7.73	98.37	109.96
50	BU	62	SER	N-CA-C	7.73	120.41	108.12
36	BG	107	GLN	N-CA-C	7.73	123.02	112.90
34	BA	173	U	O3'-P-O5'	-7.72	92.42	104.00
14	AN	28	ALA	N-CA-C	-7.71	94.37	110.80
23	AW	140	ASP	N-CA-C	7.71	120.79	109.07
31	Ae	35	GLN	N-CA-C	-7.70	94.39	110.80
30	Ad	16	HIS	N-CA-C	7.70	121.46	109.07
38	BI	14	ARG	N-CA-C	7.69	121.45	109.07
1	AA	280	C	N1-C1'-C2'	7.69	125.53	114.00
5	AE	25	VAL	CB-CA-C	-7.69	100.39	110.84
35	BF	182	ILE	CA-C-N	7.68	129.45	119.84
35	BF	182	ILE	C-N-CA	7.68	129.45	119.84
40	BK	147	ALA	N-CA-C	-7.68	102.04	111.33
4	AD	48	ARG	N-CA-C	7.68	122.36	113.38
23	AW	107	THR	CA-C-N	7.68	129.44	119.84
23	AW	107	THR	C-N-CA	7.68	129.44	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BJ	89	MET	N-CA-C	7.67	120.93	108.34
3	AC	3	HIS	N-CA-C	7.67	121.07	109.41
6	AF	73	ALA	N-CA-C	7.66	121.31	110.50
4	AD	227	ASN	CA-C-N	7.65	129.41	119.84
4	AD	227	ASN	C-N-CA	7.65	129.41	119.84
31	Ae	17	THR	N-CA-C	-7.65	96.05	108.52
45	BP	59	ARG	N-CA-C	-7.65	96.93	109.40
5	AE	132	HIS	N-CA-C	-7.65	98.85	110.70
3	AC	24	GLU	N-CA-C	-7.64	101.69	111.02
1	AA	2491	U	C4'-C3'-O3'	7.64	124.46	113.00
1	AA	774	A	C2'-C3'-O3'	7.63	120.95	109.50
1	AA	184	C	N1-C1'-C2'	7.63	123.44	112.00
23	AW	112	ARG	N-CA-C	-7.62	103.86	113.01
12	AL	118	ALA	CA-C-N	-7.62	110.32	119.84
12	AL	118	ALA	C-N-CA	-7.62	110.32	119.84
48	BS	66	LEU	N-CA-C	-7.61	101.73	111.02
28	Ab	27	PRO	CA-C-N	7.60	131.64	120.46
28	Ab	27	PRO	C-N-CA	7.60	131.64	120.46
4	AD	192	THR	N-CA-C	-7.60	97.68	109.76
49	BT	31	LYS	N-CA-C	-7.60	100.53	110.33
14	AN	33	GLY	N-CA-C	7.59	124.22	110.71
1	AA	2458	G	C4'-C3'-O3'	-7.58	101.63	113.00
50	BU	84	LEU	N-CA-C	-7.58	102.02	111.11
37	BH	12	CYS	N-CA-C	-7.58	98.94	111.37
1	AA	1240	U	P-O3'-C3'	7.57	131.55	120.20
12	AL	102	VAL	N-CA-C	7.57	125.08	109.34
12	AL	61	VAL	N-CA-C	7.56	125.07	109.34
17	AQ	76	PHE	CA-C-N	7.56	129.29	119.84
17	AQ	76	PHE	C-N-CA	7.56	129.29	119.84
1	AA	2756	U	N1-C1'-C2'	7.55	125.33	114.00
7	AG	72	ARG	N-CA-C	7.55	119.88	109.54
18	AR	61	TRP	N-CA-C	-7.51	102.78	110.97
16	AP	83	LYS	N-CA-C	7.50	120.65	108.34
1	AA	2815	C	C3'-C2'-O2'	7.50	121.95	110.70
13	AM	132	LYS	N-CA-C	-7.50	103.19	111.36
8	AH	130	ARG	N-CA-C	-7.49	97.03	109.24
44	BO	44	SER	N-CA-C	7.49	118.44	107.88
12	AL	4	PRO	N-CA-C	-7.47	97.09	112.47
53	BX	71	THR	N-CA-C	-7.47	104.14	113.55
1	AA	1604	C	N1-C1'-C2'	7.45	123.18	112.00
50	BU	58	GLU	N-CA-C	7.44	121.60	109.85
4	AD	218	ARG	N-CA-C	7.43	119.02	109.65

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	AH	121	ILE	N-CA-C	7.43	118.08	108.12
22	AV	68	HIS	N-CA-C	-7.43	101.95	113.02
12	AL	32	TYR	N-CA-C	7.42	121.17	107.60
12	AL	73	ASP	N-CA-C	-7.42	101.73	111.74
6	AF	157	VAL	N-CA-C	7.42	118.74	107.77
1	AA	2492	U	C2'-C3'-O3'	-7.40	102.60	113.70
6	AF	32	LEU	N-CA-C	-7.39	102.83	111.03
48	BS	31	LEU	N-CA-C	7.39	119.02	110.97
44	BO	38	ASN	CA-C-N	-7.37	110.62	119.84
44	BO	38	ASN	C-N-CA	-7.37	110.62	119.84
1	AA	669	G	C2'-C3'-O3'	-7.36	102.66	113.70
11	AK	36	GLY	N-CA-C	-7.36	95.74	113.18
14	AN	15	GLY	N-CA-C	7.36	121.88	111.14
12	AL	41	ALA	N-CA-C	7.35	119.31	108.14
1	AA	1130	U	C2'-C3'-O3'	7.35	120.52	109.50
1	AA	554	U	N1-C1'-C2'	7.34	123.01	112.00
36	BG	111	LEU	N-CA-C	-7.33	104.15	113.23
13	AM	62	LEU	CA-C-N	7.32	128.99	119.84
13	AM	62	LEU	C-N-CA	7.32	128.99	119.84
1	AA	527	C	N1-C1'-C2'	7.31	122.97	112.00
36	BG	132	ARG	N-CA-C	-7.31	102.10	111.02
30	Ad	9	ARG	N-CA-C	-7.31	99.38	111.37
1	AA	911	A	N9-C1'-C2'	7.30	122.96	112.00
19	AS	63	GLY	N-CA-C	-7.30	95.88	113.18
9	AI	152	VAL	N-CA-C	-7.29	106.20	113.20
14	AN	111	GLU	N-CA-C	7.29	126.32	110.80
27	Aa	65	ASP	N-CA-C	-7.29	102.51	111.33
5	AE	6	GLY	N-CA-C	-7.29	95.92	113.18
38	BI	80	ILE	N-CA-C	7.28	119.72	108.44
6	AF	15	SER	N-CA-C	7.28	117.84	108.24
13	AM	129	ALA	N-CA-C	7.28	121.18	108.52
13	AM	80	TYR	N-CA-C	-7.27	103.29	111.07
11	AK	125	GLY	N-CA-C	-7.27	97.52	112.34
19	AS	88	ARG	N-CA-C	7.25	121.64	109.76
14	AN	71	ASP	N-CA-C	7.24	126.23	110.80
34	BA	451	A	N9-C1'-C2'	7.23	124.85	114.00
23	AW	136	PHE	N-CA-C	7.23	119.30	107.23
28	Ab	28	PRO	CA-C-N	7.22	131.08	120.90
28	Ab	28	PRO	C-N-CA	7.22	131.08	120.90
5	AE	175	VAL	N-CA-C	7.21	118.26	107.80
34	BA	1225	A	C2'-C3'-O3'	-7.21	102.88	113.70
1	AA	865	C	N1-C1'-C2'	7.21	122.81	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BG	118	GLN	N-CA-C	-7.20	102.61	111.33
1	AA	387	U	N1-C1'-C2'	7.20	122.80	112.00
13	AM	133	SER	N-CA-C	-7.19	102.63	111.33
20	AT	95	ILE	N-CA-C	7.19	120.11	108.97
45	BP	84	LEU	N-CA-C	7.18	119.08	108.60
5	AE	69	LYS	N-CA-C	-7.17	104.14	113.17
22	AV	31	LEU	CA-C-N	-7.17	110.88	119.84
22	AV	31	LEU	C-N-CA	-7.17	110.88	119.84
34	BA	1285	A	C2'-C3'-O3'	7.15	120.23	109.50
19	AS	56	SER	N-CA-C	7.14	126.00	110.80
34	BA	1123	A	N9-C1'-C2'	7.14	122.71	112.00
31	Ae	49	VAL	CB-CA-C	-7.13	100.54	110.96
1	AA	2498	C	C5'-C4'-C3'	-7.13	105.31	116.00
34	BA	397	A	C4'-C3'-O3'	-7.12	102.32	113.00
1	AA	615	G	N9-C1'-C2'	7.12	122.68	112.00
17	AQ	59	THR	CA-C-N	7.12	133.26	122.93
17	AQ	59	THR	C-N-CA	7.12	133.26	122.93
34	BA	813	U	N1-C1'-C2'	7.11	122.67	112.00
26	AZ	20	LYS	N-CA-C	-7.11	102.73	111.33
50	BU	9	VAL	N-CA-C	7.09	118.35	107.99
34	BA	1279	A	N9-C1'-C2'	7.09	122.64	112.00
1	AA	1329	U	C4'-C3'-O3'	-7.08	102.38	113.00
1	AA	1635	G	C5'-C4'-C3'	-7.08	105.38	116.00
26	AZ	37	LEU	N-CA-C	7.08	120.30	108.20
1	AA	2158	A	C2'-C3'-O3'	7.07	120.11	109.50
14	AN	135	ASP	N-CA-C	7.07	124.22	113.61
1	AA	2779	U	N1-C1'-C2'	-7.06	101.41	112.00
5	AE	91	VAL	N-CA-C	7.06	118.12	111.48
1	AA	1791	A	C2'-C3'-O3'	-7.06	103.11	113.70
5	AE	174	ASP	N-CA-C	7.06	120.17	109.23
27	Aa	52	THR	N-CA-C	7.06	125.83	110.80
1	AA	1428	C	C2'-C3'-O3'	7.06	120.08	109.50
49	BT	3	LYS	N-CA-C	7.06	120.17	109.23
34	BA	397	A	N9-C1'-C2'	7.04	122.56	112.00
7	AG	56	ALA	N-CA-C	-7.03	102.82	111.33
7	AG	139	LEU	N-CA-C	-7.03	103.64	113.20
34	BA	115	G	C2'-C3'-O3'	7.02	120.03	109.50
34	BA	1377	A	C2'-C3'-O3'	7.02	120.03	109.50
1	AA	2336	A	N9-C1'-C2'	7.01	122.52	112.00
24	AX	37	LEU	N-CA-C	7.01	121.51	112.12
35	BF	86	GLU	N-CA-C	-7.01	102.85	111.33
44	BO	127	LYS	N-CA-C	-7.01	104.85	113.19

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AR	114	LYS	N-CA-C	-7.00	102.71	111.11
1	AA	1143	A	N9-C1'-C2'	7.00	122.50	112.00
16	AP	23	ARG	N-CA-C	7.00	125.70	110.80
1	AA	1955	U	N1-C1'-C2'	6.99	122.49	112.00
7	AG	144	ILE	N-CA-C	6.99	123.88	109.34
12	AL	47	ILE	CA-C-N	-6.99	112.76	119.89
12	AL	47	ILE	C-N-CA	-6.99	112.76	119.89
1	AA	1667	G	C5'-C4'-C3'	6.99	126.48	116.00
24	AX	45	PHE	N-CA-C	6.99	119.80	108.41
23	AW	166	SER	N-CA-C	6.98	116.35	108.25
31	Ae	51	ALA	N-CA-C	-6.98	97.01	108.67
36	BG	68	VAL	N-CA-C	-6.96	98.45	109.17
19	AS	91	TYR	N-CA-C	6.96	119.92	108.99
24	AX	72	ARG	N-CA-C	-6.96	102.01	111.55
12	AL	58	VAL	N-CA-C	-6.95	98.57	108.65
34	BA	727	G	N9-C1'-C2'	-6.95	101.57	112.00
13	AM	88	LEU	N-CA-C	6.95	125.60	110.80
28	Ab	34	PRO	N-CA-C	-6.95	104.81	113.84
1	AA	1815	A	N9-C1'-C2'	6.94	122.41	112.00
1	AA	2320	A	N9-C1'-C2'	6.94	122.41	112.00
1	AA	2615	U	C2'-C3'-O3'	-6.94	103.29	113.70
27	Aa	13	ARG	N-CA-C	6.94	125.58	110.80
1	AA	725	G	N9-C1'-C2'	6.93	122.40	112.00
28	Ab	6	VAL	CA-C-N	6.93	128.50	119.84
28	Ab	6	VAL	C-N-CA	6.93	128.50	119.84
13	AM	138	LEU	N-CA-C	-6.93	103.34	111.03
1	AA	2756	U	P-O3'-C3'	6.92	130.58	120.20
14	AN	87	LYS	N-CA-C	-6.92	103.94	113.56
44	BO	108	ILE	N-CA-C	6.92	118.28	108.17
1	AA	1179	C	C2'-C3'-O3'	6.92	119.88	109.50
1	AA	730	C	N1-C1'-C2'	6.90	124.35	114.00
1	AA	2051	A	N9-C1'-C2'	6.90	124.35	114.00
34	BA	119	A	C2'-C3'-O3'	6.90	119.85	109.50
41	BL	134	ILE	CB-CA-C	-6.90	99.98	111.29
51	BV	44	LEU	N-CA-C	6.90	119.82	111.82
34	BA	243	A	C2'-C3'-O3'	6.89	119.84	109.50
12	AL	13	ASN	N-CA-C	-6.88	104.87	112.72
4	AD	44	ASN	N-CA-C	-6.88	96.14	110.80
23	AW	4	ARG	N-CA-C	6.88	117.32	108.24
1	AA	2196	C	N1-C1'-C2'	6.87	122.31	112.00
31	Ae	60	LEU	N-CA-C	6.87	118.46	110.97
23	AW	157	LEU	CA-C-N	6.87	127.45	120.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AW	157	LEU	C-N-CA	6.87	127.45	120.38
36	BG	161	GLU	N-CA-C	-6.86	102.97	111.75
19	AS	66	ARG	N-CA-C	6.86	125.41	110.80
5	AE	166	THR	N-CA-C	6.86	119.36	109.14
1	AA	2447	G	C2'-C3'-O3'	6.86	119.78	109.50
17	AQ	63	VAL	N-CA-C	-6.84	97.05	107.73
36	BG	60	ALA	N-CA-C	-6.84	104.13	113.30
36	BG	128	PHE	N-CA-C	6.84	117.52	107.88
1	AA	390	A	C2'-C3'-O3'	-6.84	103.44	113.70
37	BH	189	PRO	N-CA-C	-6.82	101.57	111.33
1	AA	138	G	N9-C1'-C2'	-6.82	101.77	112.00
34	BA	1100	C	N1-C1'-C2'	6.81	122.22	112.00
45	BP	44	THR	CA-C-N	6.81	128.35	119.84
45	BP	44	THR	C-N-CA	6.81	128.35	119.84
43	BN	29	ARG	N-CA-C	-6.80	102.38	110.41
31	Ae	40	GLU	N-CA-C	-6.80	103.79	111.07
1	AA	828	U	N1-C1'-C2'	6.80	122.19	112.00
35	BF	233	SER	N-CA-C	6.80	114.12	108.07
3	AC	83	ILE	N-CA-C	-6.79	103.23	110.36
6	AF	44	ARG	N-CA-C	-6.79	103.57	110.97
1	AA	1674	G	C2'-C3'-O3'	-6.78	103.53	113.70
1	AA	101	G	N9-C1'-C2'	6.78	122.16	112.00
51	BV	52	PRO	N-CA-C	6.77	126.42	112.47
13	AM	136	GLU	N-CA-C	6.77	118.35	110.97
12	AL	120	GLU	N-CA-C	6.77	125.21	110.80
16	AP	111	GLU	N-CA-C	6.76	120.74	111.54
1	AA	2597	G	C4'-C3'-O3'	-6.76	102.86	113.00
34	BA	792	A	N9-C1'-C2'	6.75	124.12	114.00
1	AA	2060	A	C4'-C3'-O3'	-6.74	102.89	113.00
34	BA	1049	U	C2'-C3'-O3'	6.74	123.80	113.70
34	BA	1298	C	N1-C1'-C2'	6.74	122.10	112.00
1	AA	1986	A	C4'-C3'-O3'	-6.73	102.90	113.00
1	AA	685	A	C2'-C3'-O3'	6.72	119.59	109.50
1	AA	776	G	C2'-C3'-O3'	6.72	119.59	109.50
25	AY	11	LEU	N-CA-C	6.72	118.68	110.41
50	BU	104	LYS	N-CA-C	6.72	125.11	110.80
3	AC	168	THR	N-CA-C	6.71	121.07	113.02
22	AV	46	LYS	N-CA-C	6.70	125.08	110.80
1	AA	745	G	N9-C1'-C2'	6.70	122.05	112.00
1	AA	1980	G	C2'-C3'-O3'	6.70	119.55	109.50
4	AD	223	GLY	N-CA-C	6.70	121.11	112.54
34	BA	913	A	C2'-C3'-O3'	6.70	119.54	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	77	ILE	N-CA-C	6.69	117.99	108.42
36	BG	154	SER	N-CA-C	6.69	120.06	108.76
1	AA	1363	C	N1-C1'-C2'	-6.68	101.97	112.00
14	AN	104	PHE	N-CA-C	6.68	119.82	107.99
26	AZ	58	VAL	N-CA-C	6.68	116.86	107.37
1	AA	2076	U	N1-C1'-C2'	6.68	124.03	114.00
2	AB	119	A	N9-C1'-C2'	-6.68	101.98	112.00
36	BG	193	TYR	N-CA-C	-6.68	104.95	113.23
53	BX	79	ARG	N-CA-C	-6.67	103.10	111.11
23	AW	157	LEU	N-CA-C	6.67	118.06	109.72
29	Ac	35	GLU	N-CA-C	6.67	120.77	112.03
18	AR	76	TYR	N-CA-C	6.67	119.53	111.40
7	AG	121	ASN	N-CA-C	6.66	118.50	109.24
17	AQ	45	PHE	N-CA-C	-6.66	96.61	110.80
45	BP	13	LYS	N-CA-C	6.66	121.64	112.04
1	AA	676	A	N9-C1'-C2'	6.66	121.99	112.00
7	AG	42	GLY	N-CA-C	6.66	128.96	113.18
16	AP	99	LYS	N-CA-C	-6.66	103.27	111.33
5	AE	127	ASP	N-CA-C	6.66	119.58	108.13
5	AE	146	THR	N-CA-C	-6.66	95.10	109.81
5	AE	147	PRO	N-CA-C	-6.66	98.76	112.47
51	BV	18	ARG	N-CA-C	6.66	119.31	107.80
1	AA	2198	A	N9-C1'-C2'	6.65	121.97	112.00
15	AO	77	ARG	N-CA-C	-6.62	103.98	111.14
23	AW	39	VAL	CB-CA-C	-6.62	104.13	111.35
4	AD	70	TRP	N-CA-C	-6.62	96.70	110.80
53	BX	66	ALA	N-CA-C	-6.61	103.76	110.97
1	AA	229	A	C2'-C3'-O3'	-6.61	103.78	113.70
1	AA	562	U	N1-C1'-C2'	6.61	121.92	112.00
23	AW	179	ASP	N-CA-C	6.61	124.88	110.80
1	AA	1324	G	N9-C1'-C2'	6.61	121.91	112.00
37	BH	146	ILE	CB-CA-C	-6.61	105.53	111.74
42	BM	35	GLU	N-CA-C	-6.61	101.45	111.56
1	AA	740	U	C1'-C2'-O2'	-6.60	101.90	111.80
1	AA	196	A	N9-C1'-C2'	6.60	123.90	114.00
28	Ab	28	PRO	N-CA-C	6.60	121.03	110.21
23	AW	98	MET	N-CA-C	6.59	119.56	108.02
42	BM	112	LYS	N-CA-C	-6.59	99.47	109.95
50	BU	19	VAL	N-CA-C	6.59	117.79	108.17
1	AA	2496	C	C2'-C3'-O3'	-6.58	103.84	113.70
17	AQ	57	PHE	CB-CA-C	-6.58	101.78	111.77
24	AX	46	LYS	CA-C-N	6.58	128.06	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AX	46	LYS	C-N-CA	6.58	128.06	119.84
40	BK	8	GLU	N-CA-C	6.57	124.80	110.80
27	Aa	5	ILE	CB-CA-C	-6.57	100.52	111.29
31	Ae	54	GLU	N-CA-C	-6.57	103.13	112.13
40	BK	36	LYS	N-CA-C	-6.57	103.38	111.33
26	AZ	40	THR	CA-C-N	-6.56	111.86	119.47
26	AZ	40	THR	C-N-CA	-6.56	111.86	119.47
24	AX	24	LYS	N-CA-C	6.56	121.12	111.87
49	BT	68	ASP	N-CA-C	-6.56	103.75	111.03
1	AA	2092	U	N1-C1'-C2'	6.55	121.83	112.00
1	AA	2717	G	C4'-C3'-O3'	-6.55	103.18	113.00
8	AH	23	ARG	CA-C-N	-6.54	113.93	122.37
8	AH	23	ARG	C-N-CA	-6.54	113.93	122.37
35	BF	57	PHE	N-CA-C	-6.54	104.07	111.07
1	AA	1204	A	C2'-C3'-O3'	6.54	119.31	109.50
1	AA	1784	A	C3'-C2'-O2'	6.54	124.41	114.60
4	AD	190	TYR	N-CA-C	6.53	118.69	108.96
3	AC	94	VAL	N-CA-C	6.53	118.11	108.45
23	AW	38	TYR	CA-C-N	6.53	132.66	121.63
23	AW	38	TYR	C-N-CA	6.53	132.66	121.63
14	AN	60	ARG	N-CA-C	6.52	120.65	111.52
15	AO	40	LYS	N-CA-C	-6.52	100.61	111.37
39	BJ	25	ILE	N-CA-C	-6.52	103.52	110.36
50	BU	7	THR	N-CA-C	6.52	119.62	109.52
8	AH	142	GLY	N-CA-C	-6.51	104.89	112.83
1	AA	2597	G	N9-C1'-C2'	6.51	121.76	112.00
45	BP	55	VAL	N-CA-C	6.50	116.83	108.12
1	AA	741	G	C5'-C4'-C3'	6.50	125.74	116.00
1	AA	2482	G	C3'-C2'-O2'	6.49	120.44	110.70
32	Af	8	LYS	N-CA-C	-6.49	100.78	110.06
4	AD	14	ARG	N-CA-C	6.49	119.97	107.44
13	AM	42	SER	N-CA-C	6.49	124.62	110.80
5	AE	79	ARG	N-CA-C	6.48	119.57	109.52
9	AI	145	PRO	N-CA-CB	6.48	110.39	103.52
36	BG	86	VAL	N-CA-C	-6.47	102.97	111.05
37	BH	203	VAL	N-CA-C	6.46	116.62	110.42
15	AO	98	LEU	N-CA-C	6.46	120.11	108.48
1	AA	2614	A	C4'-C3'-O3'	-6.46	103.31	113.00
3	AC	19	ILE	N-CA-C	-6.45	106.44	112.83
49	BT	42	ARG	N-CA-C	-6.45	104.89	112.89
15	AO	11	ASN	N-CA-C	6.45	118.97	109.69
4	AD	147	LEU	N-CA-C	-6.44	101.25	110.59

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	AG	48	GLU	N-CA-C	-6.44	97.09	110.80
1	AA	1791	A	N9-C1'-C2'	6.43	121.65	112.00
16	AP	84	GLN	N-CA-C	6.43	118.00	108.60
50	BU	56	VAL	N-CA-C	-6.43	99.32	108.58
7	AG	2	PRO	N-CA-C	-6.43	105.68	113.98
38	BI	90	VAL	N-CA-C	6.43	117.56	108.17
1	AA	2681	C	N1-C1'-C2'	6.42	121.63	112.00
52	BW	2	PRO	N-CA-C	6.42	128.16	112.10
37	BH	30	LYS	N-CA-C	6.41	124.46	110.80
1	AA	1992	G	C2'-C3'-O3'	6.41	119.12	109.50
31	Ae	16	ILE	N-CA-C	6.41	117.71	108.48
48	BS	28	GLN	N-CA-C	-6.41	100.79	111.37
29	Ac	36	LEU	CA-C-N	6.41	133.78	121.54
29	Ac	36	LEU	C-N-CA	6.41	133.78	121.54
1	AA	1559	G	O4'-C1'-C2'	-6.41	101.19	107.60
34	BA	1133	G	N9-C1'-C2'	-6.41	102.39	112.00
27	Aa	30	GLU	N-CA-C	-6.40	97.16	110.80
34	BA	397	A	C5'-C4'-C3'	-6.40	106.40	116.00
23	AW	147	GLY	N-CA-C	-6.40	98.01	113.18
1	AA	2267	A	C2'-C3'-O3'	-6.40	104.11	113.70
18	AR	102	GLU	CA-C-N	6.40	127.84	119.84
18	AR	102	GLU	C-N-CA	6.40	127.84	119.84
28	Ab	31	VAL	CA-C-N	-6.40	111.84	119.84
28	Ab	31	VAL	C-N-CA	-6.40	111.84	119.84
16	AP	90	GLY	CA-C-N	-6.38	113.59	121.00
16	AP	90	GLY	C-N-CA	-6.38	113.59	121.00
23	AW	135	GLU	N-CA-C	-6.38	105.35	113.01
34	BA	80	G	N9-C1'-C2'	6.38	121.57	112.00
15	AO	105	ARG	N-CA-C	6.38	118.09	110.19
4	AD	132	PRO	N-CA-C	-6.37	101.19	111.19
35	BF	65	GLY	N-CA-C	-6.37	106.10	115.72
1	AA	650	C	N1-C1'-C2'	6.37	121.55	112.00
1	AA	2614	A	N9-C1'-C2'	6.36	121.55	112.00
17	AQ	72	VAL	N-CA-C	-6.36	96.11	109.34
12	AL	100	GLY	N-CA-C	6.36	125.32	112.34
40	BK	75	VAL	N-CA-C	6.36	119.46	108.90
24	AX	66	VAL	N-CA-C	-6.35	100.58	109.21
19	AS	40	LEU	N-CA-C	-6.35	97.28	110.80
34	BA	594	G	C2'-C3'-O3'	-6.34	104.18	113.70
42	BM	84	ALA	N-CA-C	-6.34	103.50	111.11
14	AN	21	THR	N-CA-C	6.34	124.31	110.80
1	AA	1203	G	OP2-P-O3'	-6.34	88.98	108.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	AH	73	ALA	N-CA-C	-6.34	103.66	111.33
26	AZ	57	GLU	N-CA-C	6.33	119.83	109.06
34	BA	563	A	N9-C1'-C2'	6.33	123.50	114.00
27	Aa	16	CYS	N-CA-C	6.33	116.81	107.88
34	BA	562	C	C2'-C3'-O3'	-6.33	104.21	113.70
1	AA	829	A	C2'-C3'-O3'	-6.33	100.01	109.50
20	AT	8	ARG	N-CA-C	6.32	124.27	110.80
44	BO	31	THR	N-CA-C	6.32	118.91	108.99
1	AA	2422	A	N9-C1'-C2'	6.32	123.47	114.00
14	AN	123	HIS	N-CA-C	-6.32	97.35	110.80
27	Aa	43	TYR	N-CA-C	6.31	119.99	109.95
34	BA	1239	A	C2'-C3'-O3'	-6.31	104.23	113.70
1	AA	1608	A	C4'-C3'-O3'	6.31	118.86	109.40
1	AA	1947	C	C5'-C4'-C3'	-6.31	106.54	116.00
19	AS	86	GLY	N-CA-C	6.31	122.82	111.03
1	AA	446	G	N9-C1'-C2'	6.30	121.45	112.00
23	AW	34	ASN	N-CA-C	6.30	119.76	109.24
21	AU	75	ASP	N-CA-C	6.30	118.67	108.41
1	AA	1127	A	C4'-C3'-O3'	6.29	122.44	113.00
24	AX	75	LEU	N-CA-C	-6.29	103.70	111.75
1	AA	2428	G	C2'-C3'-O3'	-6.29	104.27	113.70
17	AQ	23	ARG	CA-C-N	6.29	127.70	119.84
17	AQ	23	ARG	C-N-CA	6.29	127.70	119.84
6	AF	50	SER	N-CA-C	-6.28	100.98	110.28
42	BM	59	PHE	N-CA-C	6.28	119.63	109.40
25	AY	2	ARG	N-CA-C	-6.27	103.72	111.75
7	AG	68	PRO	N-CA-C	6.27	125.38	112.47
14	AN	136	ALA	CA-C-N	6.27	133.51	121.54
14	AN	136	ALA	C-N-CA	6.27	133.51	121.54
6	AF	13	SER	N-CA-C	-6.27	95.96	109.81
7	AG	59	GLU	N-CA-C	6.27	118.67	111.02
1	AA	2602	A	C2'-C3'-O3'	6.26	118.90	109.50
24	AX	57	PHE	N-CA-C	-6.26	102.60	111.56
34	BA	1139	G	N9-C1'-C2'	6.26	121.39	112.00
1	AA	1128	A	C5'-C4'-C3'	6.26	125.39	116.00
7	AG	142	PRO	N-CA-C	-6.25	99.59	112.47
16	AP	42	ASP	N-CA-C	-6.25	101.03	110.28
22	AV	55	TYR	CA-C-N	6.25	127.66	119.84
22	AV	55	TYR	C-N-CA	6.25	127.66	119.84
35	BF	113	HIS	N-CA-C	-6.25	104.39	111.07
1	AA	687	C	N1-C1'-C2'	6.24	121.36	112.00
41	BL	80	ILE	N-CA-C	-6.24	96.37	109.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	AT	11	ARG	N-CA-C	6.23	124.07	110.80
45	BP	67	THR	N-CA-C	6.23	119.62	109.59
35	BF	100	GLY	N-CA-C	-6.23	107.31	115.47
27	Aa	70	GLY	N-CA-C	-6.22	105.11	112.64
1	AA	1941	C	O4'-C4'-C3'	-6.22	97.78	104.00
16	AP	18	ILE	N-CA-C	6.22	116.70	110.23
11	AK	130	HIS	N-CA-C	-6.22	104.50	111.28
37	BH	204	ILE	CB-CA-C	-6.22	103.75	112.14
1	AA	2517	C	N1-C1'-C2'	6.22	121.32	112.00
45	BP	50	SER	N-CA-C	6.21	119.26	108.76
1	AA	1348	G	C4'-C3'-O3'	-6.21	103.68	113.00
8	AH	29	PRO	N-CA-C	-6.21	105.88	114.27
1	AA	621	A	N9-C1'-C2'	-6.21	102.69	112.00
7	AG	103	LEU	N-CA-C	-6.20	101.14	111.37
5	AE	138	PRO	N-CA-C	6.20	120.58	111.03
11	AK	43	THR	N-CA-C	6.20	123.51	109.81
50	BU	75	ARG	N-CA-C	6.19	117.96	108.42
21	AU	9	LEU	N-CA-C	6.19	116.73	108.38
34	BA	209	U	N1-C1'-C2'	6.18	121.28	112.00
44	BO	63	LEU	N-CA-C	6.18	118.57	111.02
16	AP	53	SER	N-CA-C	-6.18	100.89	110.10
12	AL	114	ILE	N-CA-C	-6.18	103.88	110.36
36	BG	38	ARG	N-CA-C	-6.18	103.86	111.33
49	BT	19	ILE	N-CA-C	-6.18	97.49	106.88
32	Af	17	ILE	N-CA-C	6.17	117.19	108.36
8	AH	131	VAL	O-C-N	6.17	130.28	122.57
25	AY	28	MET	N-CA-C	-6.17	103.50	111.02
1	AA	2458	G	N9-C1'-C2'	6.16	121.25	112.00
41	BL	100	ILE	N-CA-C	-6.16	95.58	108.88
1	AA	602	G	N9-C1'-C2'	6.16	121.23	112.00
35	BF	38	GLY	N-CA-C	6.15	121.80	114.48
1	AA	1247	A	C2'-C3'-O3'	6.15	118.73	109.50
11	AK	77	GLY	N-CA-C	-6.15	98.61	113.18
3	AC	13	LYS	N-CA-C	-6.15	103.73	111.11
17	AQ	56	GLY	CA-C-O	-6.14	114.62	120.64
34	BA	1054	C	O4'-C4'-C3'	-6.14	97.86	104.00
20	AT	31	GLU	N-CA-C	6.14	117.66	110.97
34	BA	535	A	C4'-C3'-O3'	6.14	118.61	109.40
51	BV	39	VAL	CB-CA-C	-6.14	104.02	111.88
2	AB	56	G	C4'-C3'-O3'	-6.14	103.79	113.00
38	BI	92	LYS	N-CA-C	-6.14	98.74	109.48
50	BU	42	TYR	N-CA-C	-6.13	100.10	108.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AD	35	LYS	N-CA-C	6.13	123.36	109.81
11	AK	39	ARG	N-CA-C	-6.13	101.63	110.40
1	AA	2346	A	C2'-C3'-O3'	-6.13	104.50	113.70
6	AF	8	GLN	N-CA-C	6.13	118.17	108.79
42	BM	50	LEU	N-CA-C	-6.13	104.53	112.68
20	AT	53	SER	N-CA-C	-6.13	104.52	111.07
23	AW	178	GLU	N-CA-C	-6.13	103.18	110.41
35	BF	168	THR	N-CA-C	-6.13	97.75	110.80
1	AA	2025	C	C2'-C3'-O3'	-6.12	104.51	113.70
1	AA	1791	A	C4'-C3'-O3'	-6.12	103.82	113.00
40	BK	117	ALA	N-CA-C	-6.12	104.61	111.28
1	AA	791	C	N1-C1'-C2'	6.12	121.18	112.00
1	AA	846	C	C2'-C3'-O3'	6.12	118.68	109.50
34	BA	723	U	N1-C1'-C2'	6.12	121.18	112.00
38	BI	54	ALA	N-CA-C	-6.12	103.93	111.33
25	AY	62	LYS	N-CA-C	6.11	117.63	110.97
34	BA	1124	G	N9-C1'-C2'	6.11	121.17	112.00
19	AS	60	GLU	CA-C-N	-6.11	114.51	122.51
19	AS	60	GLU	C-N-CA	-6.11	114.51	122.51
26	AZ	27	GLY	N-CA-C	-6.11	98.70	113.18
34	BA	367	U	N1-C1'-C2'	6.11	123.17	114.00
1	AA	1785	A	N9-C1'-C2'	6.11	121.16	112.00
37	BH	123	HIS	N-CA-C	6.11	120.46	113.19
38	BI	28	PHE	N-CA-C	6.11	118.46	109.24
35	BF	213	LEU	N-CA-C	-6.11	103.57	111.02
12	AL	76	ALA	N-CA-C	6.10	117.51	108.60
8	AH	7	LEU	CA-C-N	6.10	127.47	119.84
8	AH	7	LEU	C-N-CA	6.10	127.47	119.84
55	CA	558	VAL	CA-C-N	-6.10	114.10	120.38
55	CA	558	VAL	C-N-CA	-6.10	114.10	120.38
22	AV	52	SER	N-CA-C	-6.09	96.34	109.81
12	AL	67	LYS	N-CA-C	6.09	123.77	110.80
54	BY	19	GLY	N-CA-C	6.08	122.05	110.86
53	BX	94	ALA	N-CA-C	-6.08	103.30	111.87
1	AA	1966	A	C3'-C2'-O2'	6.07	119.80	110.70
34	BA	530	G	C5'-C4'-O4'	-6.07	100.70	109.80
1	AA	2602	A	N9-C1'-C2'	6.06	123.09	114.00
3	AC	7	TYR	N-CA-C	-6.06	104.47	112.34
11	AK	99	LEU	N-CA-C	-6.05	103.84	111.11
18	AR	109	LEU	N-CA-C	-6.04	97.93	110.80
23	AW	109	ALA	N-CA-C	-6.04	97.94	110.80
43	BN	68	HIS	N-CA-C	-6.04	99.81	109.96

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	31	G	C2'-C3'-O3'	-6.04	104.65	113.70
42	BM	110	GLU	N-CA-C	6.04	123.66	110.80
1	AA	2761	G	C5'-C4'-C3'	6.02	125.03	116.00
1	AA	1699	G	N9-C1'-C2'	6.02	123.03	114.00
28	Ab	22	HIS	N-CA-C	-6.02	104.04	111.75
1	AA	620	G	N9-C1'-C2'	6.02	123.03	114.00
13	AM	86	LYS	N-CA-C	6.01	123.61	110.80
13	AM	96	THR	CA-C-N	-6.01	112.32	119.84
13	AM	96	THR	C-N-CA	-6.01	112.32	119.84
1	AA	2867	G	N9-C1'-C2'	6.00	121.00	112.00
13	AM	45	LEU	N-CA-C	6.00	118.34	111.02
23	AW	91	LEU	N-CA-C	6.00	119.83	110.17
21	AU	23	GLU	N-CA-C	6.00	122.46	114.12
1	AA	1240	U	OP2-P-O3'	-6.00	90.01	108.00
12	AL	68	GLU	N-CA-C	-5.99	96.60	107.75
1	AA	1544	C	N1-C1'-C2'	5.99	120.99	112.00
15	AO	113	LEU	N-CA-C	-5.99	100.03	109.50
5	AE	192	ASN	N-CA-C	-5.99	99.20	108.42
34	BA	60	A	C2'-C3'-O3'	5.99	118.48	109.50
1	AA	1416	G	N9-C1'-C2'	5.99	120.98	112.00
1	AA	1455	G	N9-C1'-C2'	-5.98	103.03	112.00
38	BI	58	ALA	N-CA-C	-5.98	101.50	111.37
35	BF	134	GLU	N-CA-C	-5.98	104.09	111.33
1	AA	270(M)	U	C2'-C3'-O3'	-5.98	100.53	109.50
1	AA	1694	C	N1-C1'-C2'	5.98	122.96	114.00
16	AP	85	VAL	N-CA-C	5.97	116.89	108.17
23	AW	72	ARG	N-CA-C	-5.97	105.82	114.12
5	AE	196	VAL	N-CA-C	5.97	116.77	108.23
38	BI	144	THR	N-CA-C	5.97	123.51	110.80
7	AG	98	ARG	N-CA-C	-5.97	101.53	111.37
23	AW	138	GLU	N-CA-C	5.97	118.03	109.14
34	BA	1053	G	C2'-C3'-O3'	-5.96	104.76	113.70
2	AB	50	G	C4'-C3'-O3'	5.95	121.92	113.00
3	AC	91	ALA	N-CA-C	5.95	119.95	109.96
31	Ae	12	LYS	N-CA-C	-5.95	98.13	110.80
36	BG	17	ASP	N-CA-C	5.95	118.11	109.07
1	AA	532	A	N9-C1'-C2'	5.95	120.92	112.00
14	AN	128	LYS	N-CA-C	-5.95	100.15	109.25
7	AG	84	LYS	N-CA-C	5.95	123.46	110.80
4	AD	264	LYS	N-CA-C	5.94	122.94	109.81
44	BO	73	MET	N-CA-C	-5.94	104.72	111.07
20	AT	82	LEU	N-CA-C	-5.93	100.32	109.76

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	AU	42	ALA	N-CA-C	-5.93	103.99	111.11
34	BA	88	C	N1-C1'-C2'	5.93	120.90	112.00
1	AA	2472	G	C5'-C4'-C3'	-5.93	107.11	116.00
1	AA	2501	C	OP2-P-O3'	-5.93	90.22	108.00
11	AK	96	GLU	N-CA-C	-5.93	104.16	111.33
1	AA	1312	U	C3'-C2'-O2'	5.92	119.59	110.70
23	AW	37	VAL	N-CA-C	-5.92	99.89	108.89
34	BA	530	G	C2'-C3'-O3'	-5.92	104.81	113.70
7	AG	46	ALA	N-CA-C	-5.92	105.20	113.37
15	AO	10	LEU	N-CA-C	5.91	117.95	109.14
48	BS	80	ALA	N-CA-C	-5.91	103.81	111.02
51	BV	66	LEU	N-CA-C	-5.91	104.74	111.07
24	AX	71	ASP	N-CA-C	-5.91	100.90	109.59
1	AA	270(L)	U	C2'-C3'-O3'	5.91	118.36	109.50
7	AG	10	LYS	N-CA-C	5.91	117.39	111.07
38	BI	17	ALA	N-CA-C	5.91	118.83	110.50
7	AG	60	LEU	N-CA-C	-5.91	104.18	111.33
41	BL	114	THR	N-CA-C	-5.91	101.44	109.95
44	BO	91	ARG	N-CA-C	-5.91	104.19	111.75
1	AA	280	C	C2'-C3'-O3'	5.91	118.36	109.50
3	AC	87	GLU	N-CA-C	-5.90	103.82	111.02
12	AL	60	ALA	CA-C-N	5.90	132.59	121.97
12	AL	60	ALA	C-N-CA	5.90	132.59	121.97
34	BA	965	A	C2'-C3'-O3'	5.90	118.35	109.50
5	AE	200	GLU	N-CA-C	5.90	118.52	108.02
4	AD	161	THR	N-CA-C	-5.90	99.20	108.63
1	AA	698	C	N1-C1'-C2'	5.89	120.84	112.00
26	AZ	58	VAL	CB-CA-C	-5.89	105.56	111.80
1	AA	1005	C	N1-C1'-C2'	5.88	120.83	112.00
1	AA	2249	U	N1-C1'-C2'	5.88	120.83	112.00
17	AQ	31	SER	N-CA-C	5.88	118.23	108.99
34	BA	575	G	N9-C1'-C2'	5.88	120.83	112.00
1	AA	1828	G	C2'-C3'-O3'	5.88	118.32	109.50
3	AC	134	ARG	N-CA-C	-5.87	106.25	113.41
17	AQ	15	VAL	CB-CA-C	-5.87	104.37	112.24
28	Ab	57	VAL	N-CA-C	5.87	116.82	108.42
29	Ac	23	THR	N-CA-C	5.87	123.30	110.80
34	BA	1167	A	P-O3'-C3'	5.86	128.99	120.20
20	AT	99	ARG	N-CA-C	5.86	117.59	109.15
4	AD	141	VAL	N-CA-C	5.86	117.19	108.46
12	AL	22	ILE	N-CA-C	-5.86	97.16	109.34
1	AA	2116	G	C2'-C3'-O3'	-5.85	104.92	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2073	C	C4'-C3'-O3'	-5.85	104.22	113.00
1	AA	2195	C	N1-C1'-C2'	5.85	120.77	112.00
1	AA	2243	U	N1-C1'-C2'	5.85	120.78	112.00
37	BH	188	LEU	CA-C-N	-5.85	113.56	120.11
37	BH	188	LEU	C-N-CA	-5.85	113.56	120.11
14	AN	105	GLU	N-CA-C	5.85	117.93	108.34
20	AT	13	SER	CA-C-N	5.85	127.15	119.84
20	AT	13	SER	C-N-CA	5.85	127.15	119.84
14	AN	63	LYS	N-CA-C	5.84	123.24	110.80
21	AU	61	GLY	N-CA-C	5.84	121.96	111.62
35	BF	117	GLU	N-CA-C	-5.84	104.92	111.28
10	AJ	71	THR	CA-C-N	-5.83	114.38	120.38
10	AJ	71	THR	C-N-CA	-5.83	114.38	120.38
51	BV	33	ASP	N-CA-C	5.83	115.19	108.49
13	AM	23	PRO	N-CA-C	5.82	124.46	112.47
1	AA	1510	A	N9-C1'-C2'	5.82	120.73	112.00
1	AA	2447	G	N9-C1'-C2'	5.82	122.72	114.00
4	AD	239	ARG	N-CA-C	5.81	123.18	110.80
13	AM	96	THR	N-CA-C	5.81	122.65	109.81
1	AA	762	U	N1-C1'-C2'	5.81	122.71	114.00
34	BA	305	G	C2'-C3'-O3'	5.80	118.21	109.50
47	BR	18	VAL	N-CA-C	5.80	121.41	109.34
4	AD	137	PRO	N-CA-C	-5.80	100.52	112.47
6	AF	47	GLY	N-CA-C	5.80	126.92	113.18
10	AJ	20	ALA	CA-C-N	-5.79	114.41	120.38
10	AJ	20	ALA	C-N-CA	-5.79	114.41	120.38
1	AA	858	U	C2'-C3'-O3'	-5.79	105.01	113.70
18	AR	52	ARG	N-CA-C	5.79	120.35	113.28
34	BA	1148	U	N1-C1'-C2'	5.79	120.68	112.00
45	BP	16	GLU	N-CA-C	5.79	123.12	110.80
14	AN	38	GLU	CA-C-N	-5.78	112.61	119.84
14	AN	38	GLU	C-N-CA	-5.78	112.61	119.84
49	BT	5	ARG	N-CA-C	-5.78	101.17	108.45
24	AX	22	GLY	N-CA-C	5.78	121.41	112.45
5	AE	194	GLY	CA-C-N	-5.78	115.03	123.00
5	AE	194	GLY	C-N-CA	-5.78	115.03	123.00
48	BS	74	ASP	CA-C-N	5.78	126.65	120.47
48	BS	74	ASP	C-N-CA	5.78	126.65	120.47
37	BH	26	CYS	CA-C-N	5.77	131.29	122.23
37	BH	26	CYS	C-N-CA	5.77	131.29	122.23
40	BK	16	LEU	N-CA-C	-5.77	104.40	112.25
16	AP	92	TYR	N-CA-C	5.77	116.02	107.88

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1477	A	N9-C1'-C2'	5.77	120.65	112.00
1	AA	1706	U	N1-C1'-C2'	5.77	120.65	112.00
34	BA	531	U	N1-C1'-C2'	5.77	122.65	114.00
8	AH	110	SER	N-CA-C	-5.76	98.53	110.80
34	BA	197	A	P-O3'-C3'	-5.76	111.57	120.20
4	AD	189	CYS	CA-C-N	-5.75	112.44	121.87
4	AD	189	CYS	C-N-CA	-5.75	112.44	121.87
18	AR	50	ARG	N-CA-C	-5.75	105.09	111.71
1	AA	508	G	C4'-C3'-O3'	5.75	118.03	109.40
34	BA	423	G	N9-C1'-C2'	5.75	120.62	112.00
38	BI	89	ILE	N-CA-C	5.75	116.75	108.48
1	AA	728	G	N9-C1'-C2'	5.74	120.61	112.00
1	AA	2894	G	N9-C1'-C2'	5.74	120.61	112.00
3	AC	157	LYS	N-CA-C	5.74	118.75	111.69
6	AF	95	ARG	N-CA-C	5.74	116.15	108.23
27	Aa	19	GLY	N-CA-C	-5.74	99.58	113.18
25	AY	44	LYS	N-CA-C	-5.73	104.39	111.33
1	AA	2061	G	N9-C1'-C2'	5.73	120.60	112.00
15	AO	36	THR	N-CA-CB	5.73	115.35	109.51
4	AD	62	TYR	N-CA-C	5.73	123.00	110.80
34	BA	47	C	N1-C1'-C2'	5.73	122.59	114.00
34	BA	559	A	C2'-C3'-O3'	5.72	118.09	109.50
1	AA	1566	A	C4'-C3'-O3'	-5.72	100.82	109.40
1	AA	2726	U	C2'-C3'-O3'	5.72	118.08	109.50
1	AA	647	G	N9-C1'-C2'	5.72	120.58	112.00
1	AA	36	G	C4'-C3'-O3'	-5.71	104.43	113.00
1	AA	150	C	N1-C1'-C2'	5.71	120.57	112.00
1	AA	2778	A	C4'-C3'-O3'	5.71	117.97	109.40
52	BW	22	LEU	N-CA-C	-5.71	105.14	111.71
1	AA	1444(A)	A	N9-C1'-C2'	5.71	122.57	114.00
1	AA	2500	U	O3'-P-O5'	-5.71	95.43	104.00
1	AA	1429	G	N9-C1'-C2'	5.71	120.57	112.00
5	AE	73	GLU	CA-C-N	5.71	126.98	119.84
5	AE	73	GLU	C-N-CA	5.71	126.98	119.84
24	AX	5	LYS	CB-CA-C	-5.71	109.00	115.79
14	AN	94	VAL	N-CA-C	5.70	121.20	109.34
24	AX	2	ALA	N-CA-C	5.70	122.94	110.80
29	Ac	38	LYS	CA-C-N	5.70	132.42	121.54
29	Ac	38	LYS	C-N-CA	5.70	132.42	121.54
1	AA	1199	U	N1-C1'-C2'	5.70	120.54	112.00
34	BA	47	C	C2'-C3'-O3'	5.70	118.04	109.50
34	BA	1305	G	C4'-C3'-O3'	-5.70	104.46	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	746	A	N9-C1'-C2'	-5.69	105.46	114.00
11	AK	89	LYS	N-CA-C	-5.69	105.08	111.28
1	AA	1247	A	N9-C1'-C2'	5.69	122.53	114.00
53	BX	72	LEU	N-CA-C	-5.69	100.86	109.85
1	AA	2833	G	C2'-C3'-O3'	-5.68	105.17	113.70
34	BA	13	U	N1-C1'-C2'	5.68	120.53	112.00
28	Ab	36	CYS	CA-CB-SG	5.68	127.47	114.40
1	AA	2041	U	C4'-C3'-O3'	-5.68	104.48	113.00
3	AC	124	GLY	N-CA-C	5.68	119.55	112.73
35	BF	225	ALA	N-CA-C	-5.68	105.17	111.36
15	AO	65	LEU	CA-C-N	-5.68	111.50	120.47
15	AO	65	LEU	C-N-CA	-5.68	111.50	120.47
36	BG	71	ALA	N-CA-C	-5.68	104.22	113.19
6	AF	122	LYS	N-CA-C	5.67	117.66	108.41
23	AW	99	TYR	N-CA-C	-5.67	101.71	109.71
6	AF	83	PHE	N-CA-C	5.67	116.86	107.73
1	AA	738	G	C2'-C3'-O3'	-5.66	105.21	113.70
14	AN	39	PRO	N-CA-C	5.66	124.12	112.47
38	BI	120	THR	N-CA-C	5.66	117.67	109.07
6	AF	42	ALA	N-CA-C	5.66	117.92	111.02
21	AU	84	ALA	CA-C-N	5.66	126.91	119.84
21	AU	84	ALA	C-N-CA	5.66	126.91	119.84
5	AE	43	GLY	N-CA-C	-5.65	99.78	113.18
27	Aa	41	PRO	N-CA-C	5.65	124.12	112.47
1	AA	962	G	N9-C1'-C2'	5.65	120.48	112.00
11	AK	134	ARG	CA-C-N	5.65	126.91	119.84
11	AK	134	ARG	C-N-CA	5.65	126.91	119.84
1	AA	748	G	C2'-C3'-O3'	-5.65	105.23	113.70
1	AA	750	A	C4'-C3'-O3'	-5.65	104.53	113.00
45	BP	47	LYS	CA-C-N	-5.65	112.78	119.84
45	BP	47	LYS	C-N-CA	-5.65	112.78	119.84
1	AA	2577	A	C2'-C3'-O3'	-5.64	105.24	113.70
3	AC	142	ALA	N-CA-C	-5.64	103.56	110.61
21	AU	56	THR	N-CA-C	5.64	117.97	109.23
5	AE	39	PRO	N-CA-C	-5.64	106.51	113.84
24	AX	74	ARG	N-CA-C	5.63	122.80	110.80
40	BK	49	ILE	CB-CA-C	-5.63	104.67	111.88
45	BP	69	TYR	N-CA-C	5.63	119.10	110.20
4	AD	68	LYS	N-CA-C	5.63	117.57	108.34
7	AG	176	LEU	N-CA-C	5.63	118.35	111.82
25	AY	65	GLN	N-CA-C	-5.63	104.36	111.11
22	AV	52	SER	CA-C-N	-5.62	114.17	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	52	SER	C-N-CA	-5.62	114.17	119.90
29	Ac	31	PRO	N-CA-C	5.62	124.06	112.47
1	AA	805	G	C2'-C3'-O3'	-5.62	105.27	113.70
34	BA	813	U	C4'-C3'-O3'	-5.62	104.57	113.00
27	Aa	57	GLU	N-CA-C	5.62	117.53	108.32
35	BF	231	GLU	N-CA-C	5.62	118.44	110.24
1	AA	1204	A	C5'-C4'-C3'	5.62	123.63	115.20
12	AL	87	ILE	N-CA-C	-5.62	100.31	108.17
24	AX	31	VAL	N-CA-C	5.62	116.21	107.28
1	AA	602	G	C4'-C3'-O3'	-5.61	104.58	113.00
5	AE	24	THR	N-CA-C	5.61	117.87	107.99
49	BT	49	LEU	N-CA-C	5.61	116.94	108.46
34	BA	172	A	OP2-P-O3'	-5.61	91.16	108.00
1	AA	1128	A	C2'-C3'-O3'	-5.61	105.28	113.70
1	AA	2525	G	C2'-C3'-O3'	-5.61	105.28	113.70
44	BO	24	SER	N-CA-C	-5.61	101.27	109.63
1	AA	279	C	N1-C1'-C2'	5.61	120.41	112.00
1	AA	2425	A	N9-C1'-C2'	5.61	120.41	112.00
1	AA	222	A	N9-C1'-C2'	5.60	120.40	112.00
1	AA	980	A	C4'-C3'-O3'	-5.60	104.60	113.00
16	AP	19	LYS	N-CA-C	-5.60	104.39	111.11
34	BA	251	G	C2'-C3'-O3'	-5.60	105.30	113.70
17	AQ	16	ARG	N-CA-C	-5.60	99.02	109.32
17	AQ	12	SER	N-CA-C	-5.60	102.13	111.37
20	AT	9	TYR	N-CA-C	5.60	122.73	110.80
23	AW	38	TYR	N-CA-C	5.60	118.53	109.40
1	AA	1008	C	N1-C1'-C2'	5.60	120.39	112.00
3	AC	98	GLU	N-CA-C	-5.60	104.81	111.69
12	AL	40	VAL	CB-CA-C	-5.60	102.30	110.81
1	AA	2490	G	C1'-C2'-O2'	-5.59	103.42	111.80
6	AF	20	LEU	N-CA-C	5.59	117.68	109.24
27	Aa	12	ALA	N-CA-C	5.59	122.71	110.80
34	BA	572	A	C4'-C3'-O3'	-5.59	104.62	113.00
1	AA	1776	G	N9-C1'-C2'	5.58	120.38	112.00
34	BA	748	C	O4'-C1'-C2'	-5.58	102.02	107.60
14	AN	101	ARG	N-CA-C	5.58	119.15	110.17
36	BG	8	ILE	N-CA-C	-5.58	106.37	111.67
16	AP	107	GLU	N-CA-C	-5.57	105.11	111.07
34	BA	5	U	C2'-C3'-O3'	5.57	117.86	109.50
11	AK	80	GLY	N-CA-C	-5.57	99.98	113.18
42	BM	74	ILE	CB-CA-C	-5.57	104.57	111.70
1	AA	2373	G	N9-C1'-C2'	5.57	120.35	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	Ae	16	ILE	CB-CA-C	-5.57	102.33	110.62
4	AD	136	ILE	CA-C-N	-5.56	112.89	119.84
4	AD	136	ILE	C-N-CA	-5.56	112.89	119.84
16	AP	51	ALA	N-CA-C	5.56	122.64	110.80
1	AA	2774	C	C4'-C3'-O3'	-5.56	104.67	113.00
31	Ae	30	ARG	N-CA-C	5.55	122.63	110.80
35	BF	200	ILE	N-CA-C	5.55	120.89	109.34
1	AA	2726	U	N1-C1'-C2'	5.55	122.32	114.00
34	BA	875	C	C4'-C3'-O3'	-5.55	104.68	113.00
1	AA	1941	C	C2'-C3'-O3'	-5.55	105.38	113.70
6	AF	21	ALA	N-CA-C	-5.55	98.98	110.80
17	AQ	101	PHE	N-CA-C	-5.55	105.59	112.47
36	BG	175	LEU	N-CA-C	-5.55	105.33	111.71
50	BU	22	LEU	N-CA-C	5.55	118.13	108.76
50	BU	59	ILE	CB-CA-C	-5.55	101.82	110.69
1	AA	1022	G	C1'-C2'-O2'	-5.54	103.48	111.80
15	AO	28	LEU	N-CA-C	-5.54	104.93	110.97
23	AW	67	LEU	N-CA-C	5.54	117.19	108.55
35	BF	90	MET	N-CA-C	5.54	119.81	107.95
4	AD	50	THR	CA-C-N	-5.54	115.91	122.11
4	AD	50	THR	C-N-CA	-5.54	115.91	122.11
13	AM	77	ARG	N-CA-C	5.54	120.91	109.11
23	AW	39	VAL	CA-C-N	-5.54	114.27	122.41
23	AW	39	VAL	C-N-CA	-5.54	114.27	122.41
34	BA	871	U	C4'-C3'-O3'	5.54	117.70	109.40
1	AA	1635	G	C2'-C3'-O3'	5.53	122.00	113.70
1	AA	2566	A	N9-C1'-C2'	5.53	120.30	112.00
23	AW	174	VAL	N-CA-C	5.53	116.55	108.53
45	BP	25	PRO	N-CA-C	-5.53	103.99	113.12
55	CA	316	SER	CA-C-N	-5.53	114.35	121.04
55	CA	316	SER	C-N-CA	-5.53	114.35	121.04
1	AA	1205	U	C1'-O4'-C4'	-5.53	104.37	109.90
18	AR	100	VAL	CB-CA-C	-5.53	102.22	111.29
38	BI	145	LYS	N-CA-C	-5.53	104.67	111.75
1	AA	745	G	O4'-C4'-C3'	5.52	109.52	104.00
34	BA	394	G	N9-C1'-C2'	5.52	120.28	112.00
44	BO	112	THR	N-CA-C	-5.52	100.98	112.40
1	AA	2724	C	C2'-C3'-O3'	-5.52	105.43	113.70
37	BH	63	LYS	N-CA-C	-5.52	105.27	111.28
44	BO	71	LYS	N-CA-C	-5.52	104.96	110.97
50	BU	43	LEU	N-CA-C	-5.52	100.69	109.07
34	BA	818	G	N9-C1'-C2'	5.51	122.27	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AK	133	GLN	N-CA-C	-5.51	98.93	108.52
34	BA	1395	C	N1-C1'-C2'	5.51	120.27	112.00
34	BA	1392	G	C4'-C3'-O3'	-5.51	104.74	113.00
1	AA	788	A	C2'-C3'-O3'	5.51	117.76	109.50
4	AD	244	ARG	CA-C-N	5.51	126.05	120.38
4	AD	244	ARG	C-N-CA	5.51	126.05	120.38
13	AM	72	PRO	N-CA-C	5.51	123.82	112.47
1	AA	311	A	N9-C1'-C2'	5.51	120.26	112.00
23	AW	158	PRO	CA-C-N	5.51	126.72	119.84
23	AW	158	PRO	C-N-CA	5.51	126.72	119.84
1	AA	1800	C	O4'-C4'-C3'	-5.50	98.50	104.00
34	BA	1054	C	N1-C1'-C2'	-5.50	103.74	112.00
40	BK	69	VAL	N-CA-C	5.50	117.97	111.09
9	AI	151	GLY	N-CA-C	-5.50	106.22	115.80
11	AK	47	ALA	N-CA-C	-5.50	99.08	110.80
1	AA	1189	A	N9-C1'-C2'	-5.50	103.75	112.00
1	AA	2027	G	C5'-C4'-C3'	5.50	124.25	116.00
1	AA	689	A	C4'-C3'-O3'	-5.50	104.75	113.00
1	AA	1585	C	C2'-C3'-O3'	-5.50	101.25	109.50
45	BP	37	CYS	N-CA-C	5.50	117.97	110.55
47	BR	11	LYS	N-CA-C	-5.50	106.65	113.19
43	BN	44	VAL	N-CA-C	5.50	116.40	108.48
1	AA	2590	A	C3'-C2'-O2'	5.50	118.94	110.70
23	AW	9	TYR	N-CA-C	-5.49	103.13	110.55
24	AX	10	THR	N-CA-C	-5.49	99.10	110.80
50	BU	46	ASP	CA-C-N	5.49	126.71	119.84
50	BU	46	ASP	C-N-CA	5.49	126.71	119.84
1	AA	1300	U	C2'-C3'-O3'	5.49	117.74	109.50
7	AG	76	SER	N-CA-C	5.49	122.50	110.80
21	AU	37	THR	N-CA-C	-5.49	105.39	111.71
1	AA	558	G	C2'-C3'-O3'	-5.49	105.47	113.70
44	BO	85	ARG	N-CA-C	5.49	118.72	107.69
34	BA	764	C	C2'-C3'-O3'	-5.48	105.48	113.70
39	BJ	99	ALA	N-CA-C	-5.48	101.92	110.42
15	AO	55	ALA	N-CA-C	-5.48	102.33	111.37
12	AL	6	THR	CA-C-N	5.48	131.10	122.34
12	AL	6	THR	C-N-CA	5.48	131.10	122.34
1	AA	1675	C	N1-C1'-C2'	5.48	120.21	112.00
4	AD	85	ASP	CA-C-N	5.47	126.68	119.84
4	AD	85	ASP	C-N-CA	5.47	126.68	119.84
1	AA	2445	G	N9-C1'-C2'	5.47	120.20	112.00
12	AL	57	VAL	N-CA-C	-5.47	97.97	109.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1663	C	C2'-C3'-O3'	-5.47	105.50	113.70
34	BA	518	C	C2'-C3'-O3'	5.47	117.70	109.50
21	AU	59	VAL	N-CA-C	5.46	115.76	108.27
18	AR	101	ARG	N-CA-C	5.46	117.23	111.28
34	BA	1063	C	C2'-C3'-O3'	-5.46	105.51	113.70
4	AD	162	SER	N-CA-C	5.46	122.43	110.80
15	AO	111	LEU	N-CA-C	5.46	118.16	109.65
17	AQ	45	PHE	CA-C-N	-5.46	114.50	122.19
17	AQ	45	PHE	C-N-CA	-5.46	114.50	122.19
1	AA	60	G	C2'-C3'-O3'	5.45	117.68	109.50
1	AA	1984	G	C2'-C3'-O3'	-5.45	105.52	113.70
1	AA	1956	U	C5'-C4'-C3'	-5.45	107.83	116.00
11	AK	101	HIS	CA-C-N	-5.45	113.46	120.65
11	AK	101	HIS	C-N-CA	-5.45	113.46	120.65
2	AB	56	G	C2'-C3'-O3'	5.44	121.86	113.70
1	AA	763	G	O4'-C4'-C3'	-5.44	98.56	104.00
3	AC	27	HIS	N-CA-C	5.44	116.90	110.97
12	AL	90	GLN	N-CA-C	-5.44	99.21	110.80
16	AP	4	LEU	N-CA-C	-5.44	104.78	111.75
1	AA	2091	U	C2'-C3'-O3'	-5.44	105.54	113.70
34	BA	457	C	N1-C1'-C2'	-5.44	103.84	112.00
1	AA	823	G	C2'-C3'-O3'	-5.44	105.54	113.70
1	AA	785	G	C3'-C2'-O2'	5.44	118.86	110.70
17	AQ	53	ARG	N-CA-C	5.43	122.37	110.80
35	BF	158	LEU	N-CA-C	5.43	121.81	109.81
1	AA	81	G	C2'-C3'-O3'	-5.43	105.56	113.70
1	AA	2195	C	O4'-C4'-C3'	5.43	109.43	104.00
34	BA	481	G	C2'-C3'-O3'	-5.43	105.56	113.70
1	AA	2491	U	C3'-C2'-C1'	-5.43	95.87	101.30
16	AP	39	ILE	N-CA-C	5.42	117.11	108.87
28	Ab	10	LYS	N-CA-C	5.42	122.34	110.80
13	AM	63	PRO	N-CA-C	5.41	123.62	112.47
37	BH	158	ILE	N-CA-C	-5.41	98.09	109.34
3	AC	178	ALA	CA-C-N	5.41	132.76	121.94
3	AC	178	ALA	C-N-CA	5.41	132.76	121.94
1	AA	1266	G	C5'-C4'-C3'	5.41	124.11	116.00
1	AA	1397	U	N1-C1'-C2'	5.41	120.11	112.00
34	BA	1399	C	C2'-C3'-O3'	5.41	117.61	109.50
53	BX	12	ALA	N-CA-C	-5.41	99.29	110.80
12	AL	56	ASP	N-CA-CB	-5.40	101.36	110.49
13	AM	18	ARG	N-CA-C	5.40	118.95	111.71
18	AR	74	LEU	N-CA-C	5.40	117.18	108.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2497	A	C2'-C3'-O3'	-5.40	105.60	113.70
35	BF	21	ARG	N-CA-C	5.40	118.45	110.46
1	AA	1260	G	C4'-C3'-O3'	-5.39	104.91	113.00
5	AE	38	THR	N-CA-C	-5.39	97.89	109.81
28	Ab	25	LEU	N-CA-C	5.39	117.54	107.99
34	BA	372	C	N1-C1'-C2'	5.39	122.09	114.00
1	AA	2572	A	C2'-C3'-O3'	-5.39	105.61	113.70
1	AA	2448	A	P-O3'-C3'	-5.39	112.11	120.20
19	AS	35	LEU	CA-C-N	5.39	126.58	119.84
19	AS	35	LEU	C-N-CA	5.39	126.58	119.84
1	AA	1153	C	N1-C1'-C2'	5.39	120.08	112.00
1	AA	2459	A	C4-N9-C1'	5.39	142.46	126.30
35	BF	18	GLY	N-CA-C	5.39	118.95	110.71
6	AF	139	PHE	N-CA-C	-5.38	104.65	111.11
41	BL	21	LYS	N-CA-C	-5.38	101.70	110.20
34	BA	1280	A	C2'-C3'-O3'	-5.38	105.63	113.70
1	AA	279	C	C4'-C3'-O3'	-5.38	104.93	113.00
1	AA	2756	U	C4'-C3'-O3'	-5.38	101.33	109.40
1	AA	776	G	O4'-C1'-C2'	5.38	111.18	105.80
1	AA	1779	U	O4'-C1'-C2'	-5.38	102.22	107.60
38	BI	97	GLY	N-CA-C	-5.38	100.44	113.18
39	BJ	4	TYR	N-CA-C	-5.38	101.24	109.41
43	BN	84	GLN	N-CA-C	-5.38	105.94	112.88
11	AK	62	VAL	CB-CA-C	-5.38	103.71	111.34
43	BN	66	ARG	N-CA-C	5.38	115.33	108.24
1	AA	1775	U	C4'-C3'-O3'	-5.37	104.94	113.00
1	AA	1554	A	C4'-C3'-O3'	-5.37	104.94	113.00
15	AO	52	ILE	N-CA-C	-5.37	104.50	110.62
1	AA	1614	A	C2'-C3'-O3'	-5.37	105.65	113.70
35	BF	231	GLU	CA-C-N	5.37	126.55	119.84
35	BF	231	GLU	C-N-CA	5.37	126.55	119.84
1	AA	2510	C	N1-C1'-C2'	-5.37	103.95	112.00
13	AM	45	LEU	CA-CB-CG	-5.37	97.52	116.30
3	AC	209	LEU	N-CA-C	-5.37	100.04	108.63
1	AA	1778	U	C2'-C3'-O3'	5.36	121.74	113.70
12	AL	60	ALA	N-CA-C	5.36	118.19	109.24
16	AP	52	SER	N-CA-C	5.36	118.91	107.70
41	BL	68	ARG	N-CA-C	-5.36	103.41	110.33
1	AA	455	C	C2'-C3'-O3'	-5.36	105.66	113.70
6	AF	59	TYR	N-CA-C	5.36	122.22	110.80
12	AL	7	TYR	N-CA-C	-5.36	97.91	107.98
1	AA	1332	G	C2'-C3'-O3'	-5.36	105.67	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	50	A	C2'-C3'-O3'	-5.35	105.67	113.70
12	AL	33	ALA	N-CA-C	-5.35	99.41	110.80
35	BF	130	ARG	CA-C-N	5.35	126.53	119.84
35	BF	130	ARG	C-N-CA	5.35	126.53	119.84
1	AA	653	A	N9-C1'-C2'	5.35	120.02	112.00
41	BL	9	MET	N-CA-C	-5.35	105.53	111.36
1	AA	36	G	N9-C1'-C2'	5.35	120.02	112.00
1	AA	1060	U	P-O3'-C3'	-5.35	112.18	120.20
1	AA	2449	U	C4'-C3'-O3'	-5.34	104.98	113.00
1	AA	1537	C	N1-C1'-C2'	-5.34	103.99	112.00
13	AM	84	ASN	N-CA-C	5.34	122.18	110.80
51	BV	40	LEU	N-CA-C	-5.34	105.15	110.97
1	AA	869	G	C5'-C4'-C3'	5.34	124.00	116.00
1	AA	2402	C	N1-C1'-C2'	5.34	120.01	112.00
34	BA	973	G	OP1-P-O3'	-5.34	91.99	108.00
42	BM	12	GLU	N-CA-C	5.33	119.08	112.47
16	AP	12	PHE	CA-C-N	-5.33	112.59	120.38
16	AP	12	PHE	C-N-CA	-5.33	112.59	120.38
19	AS	4	ILE	N-CA-C	5.33	115.73	107.78
1	AA	2570	G	C4'-C3'-O3'	-5.33	105.00	113.00
28	Ab	27	PRO	N-CA-C	5.33	117.20	110.70
6	AF	77	ASP	N-CA-C	5.33	117.93	109.24
34	BA	993	G	N9-C1'-C2'	5.33	119.99	112.00
22	AV	6	HIS	CB-CA-C	-5.33	107.74	114.40
42	BM	61	ALA	N-CA-C	5.33	117.42	107.99
1	AA	948	G	C2'-C3'-O3'	-5.32	105.72	113.70
1	AA	2032	G	O4'-C1'-C2'	5.32	111.12	105.80
1	AA	2266	A	C1'-C2'-O2'	5.32	116.39	108.40
1	AA	2766	G	C4'-C3'-O3'	-5.32	105.01	113.00
34	BA	790	A	N9-C1'-C2'	-5.32	104.02	112.00
14	AN	90	VAL	N-CA-C	-5.32	100.81	108.89
1	AA	2835	A	N9-C1'-C2'	5.32	121.98	114.00
34	BA	1336	C	C2'-C3'-O3'	-5.32	105.72	113.70
40	BK	83	ALA	N-CA-C	5.32	116.53	108.07
48	BS	4	THR	N-CA-C	5.32	117.59	109.62
20	AT	40	ASN	N-CA-C	5.32	117.55	110.53
34	BA	397	A	C4-N9-C1'	5.32	142.25	126.30
1	AA	1286	A	C2'-C3'-O3'	-5.31	105.73	113.70
40	BK	62	PHE	N-CA-C	-5.31	105.18	110.97
34	BA	641	U	N1-C1'-C2'	5.31	119.97	112.00
14	AN	41	TRP	N-CA-C	-5.31	102.66	110.52
34	BA	769	G	N9-C1'-C2'	5.31	119.96	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BK	108	ALA	N-CA-C	-5.31	105.39	111.07
5	AE	152	LYS	N-CA-C	5.30	122.31	114.09
13	AM	46	LYS	N-CA-C	5.30	116.68	107.93
21	AU	62	LYS	N-CA-C	5.30	117.46	108.02
1	AA	1186	G	N9-C1'-C2'	5.30	119.95	112.00
1	AA	1626	G	C5'-C4'-O4'	5.30	117.05	109.10
3	AC	68	LEU	N-CA-C	5.30	117.04	109.14
34	BA	1362	C	N1-C1'-C2'	5.30	119.95	112.00
41	BL	113	SER	N-CA-C	-5.30	99.88	108.52
1	AA	1607	C	N1-C1'-C2'	5.30	119.94	112.00
24	AX	34	GLY	N-CA-C	-5.30	107.20	114.67
1	AA	1102	C	N1-C1'-C2'	5.29	119.94	112.00
1	AA	2553	G	C4'-C3'-O3'	-5.29	105.06	113.00
1	AA	309	G	N9-C1'-C2'	5.29	119.93	112.00
1	AA	1294	U	C5'-C4'-C3'	-5.29	108.07	116.00
26	AZ	29	ARG	N-CA-C	-5.29	99.53	110.80
3	AC	130	ILE	N-CA-C	5.29	116.69	111.67
50	BU	41	LYS	N-CA-C	-5.29	102.70	110.52
1	AA	1310	G	C4'-C3'-O3'	-5.29	105.07	113.00
36	BG	9	GLY	N-CA-C	-5.28	106.39	112.83
40	BK	70	LYS	CA-C-N	5.28	126.44	119.84
40	BK	70	LYS	C-N-CA	5.28	126.44	119.84
12	AL	82	ASN	N-CA-C	5.28	116.55	108.52
5	AE	81	ILE	CB-CA-C	-5.28	102.63	111.29
1	AA	2079	U	C4'-C3'-O3'	-5.28	105.08	113.00
31	Ae	7	HIS	N-CA-C	-5.28	99.56	110.80
32	Af	6	SER	CB-CA-C	-5.28	110.05	117.23
6	AF	39	TRP	N-CA-C	5.28	117.46	111.02
15	AO	108	GLY	N-CA-C	-5.28	107.28	115.67
36	BG	197	GLY	N-CA-C	5.27	125.68	113.18
5	AE	19	ARG	N-CA-C	-5.27	103.07	110.35
1	AA	2279	G	C3'-C2'-O2'	5.27	118.61	110.70
27	Aa	9	LEU	N-CA-C	5.27	117.11	108.52
1	AA	1698	A	N9-C1'-C2'	5.27	119.90	112.00
29	Ac	11	LEU	N-CA-C	5.27	117.31	108.73
1	AA	2755	C	OP2-P-O3'	5.26	123.79	108.00
15	AO	47	PHE	N-CA-C	5.26	122.01	110.80
34	BA	553	A	N9-C1'-C2'	5.26	119.90	112.00
8	AH	35	VAL	CA-C-O	5.26	123.04	119.20
1	AA	746	A	C3'-C2'-O2'	5.26	122.49	114.60
16	AP	22	GLY	CA-C-N	5.26	131.58	121.54
16	AP	22	GLY	C-N-CA	5.26	131.58	121.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	AQ	42	ILE	N-CA-C	-5.26	98.92	106.55
34	BA	969	A	C4'-C3'-O3'	-5.26	105.11	113.00
47	BR	8	GLU	N-CA-C	-5.26	107.24	113.97
1	AA	1022	G	N9-C1'-C2'	5.26	121.89	114.00
4	AD	9	TYR	N-CA-C	-5.26	99.88	108.76
21	AU	14	SER	N-CA-C	5.26	117.93	110.10
34	BA	689	C	C2'-C3'-O3'	-5.26	105.82	113.70
1	AA	2259	G	N9-C1'-C2'	-5.25	104.12	112.00
7	AG	67	LYS	N-CA-C	5.25	121.42	109.81
36	BG	169	ALA	N-CA-C	5.25	116.83	108.79
1	AA	2571	C	C4'-C3'-O3'	-5.25	105.12	113.00
6	AF	65	TRP	N-CA-C	-5.25	102.01	109.62
1	AA	586	A	C2'-C3'-O3'	-5.25	105.83	113.70
1	AA	1888	G	N9-C1'-C2'	5.25	119.88	112.00
34	BA	820	U	C4'-C3'-O3'	-5.25	105.13	113.00
1	AA	2403	C	N1-C1'-C2'	5.24	119.86	112.00
34	BA	250	A	C2'-C3'-O3'	5.24	117.36	109.50
1	AA	1275	A	C2'-C3'-O3'	-5.24	105.84	113.70
1	AA	1818	U	C3'-C2'-O2'	5.24	118.56	110.70
31	Ae	43	GLN	N-CA-C	5.24	117.16	107.73
34	BA	566	G	C2'-C3'-O3'	-5.24	105.84	113.70
17	AQ	18	ASP	N-CA-C	-5.23	106.15	113.37
23	AW	132	ASN	N-CA-C	5.23	117.17	107.60
27	Aa	35	VAL	N-CA-C	5.23	117.58	108.95
34	BA	873	A	C4'-C3'-O3'	5.23	117.25	109.40
4	AD	165	ILE	CB-CA-C	-5.23	104.32	111.33
38	BI	45	PHE	N-CA-C	-5.23	99.26	108.20
1	AA	1590	U	C2'-C3'-O3'	-5.23	105.86	113.70
11	AK	41	ASP	CA-C-N	5.23	129.81	121.66
11	AK	41	ASP	C-N-CA	5.23	129.81	121.66
1	AA	1314	C	C5'-C4'-C3'	-5.22	108.16	116.00
1	AA	2782	G	C5'-C4'-C3'	5.22	123.84	116.00
8	AH	82	GLY	N-CA-C	-5.22	100.80	113.18
31	Ae	21	LYS	N-CA-C	5.22	115.95	108.74
8	AH	18	GLU	N-CA-C	5.22	117.12	109.24
50	BU	21	VAL	N-CA-C	5.22	115.88	108.42
5	AE	179	GLU	N-CA-C	-5.22	99.69	110.80
1	AA	2848	G	C2'-C3'-O3'	5.21	117.32	109.50
34	BA	751	U	C2'-C3'-O3'	-5.21	105.88	113.70
47	BR	16	PHE	N-CA-C	-5.21	99.70	110.80
1	AA	1626	G	N9-C1'-C2'	5.21	121.81	114.00
19	AS	37	VAL	N-CA-C	-5.21	100.82	108.11

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	AY	5	LEU	N-CA-C	-5.21	104.86	111.11
27	Aa	43	TYR	CA-CB-CG	5.21	123.27	113.90
39	BJ	41	GLU	N-CA-C	5.20	121.88	110.80
40	BK	79	ARG	N-CA-C	-5.20	98.82	108.24
30	Ad	37	LYS	N-CA-C	-5.20	105.61	111.28
1	AA	1936	A	N9-C1'-C2'	5.20	121.80	114.00
23	AW	155	LEU	N-CA-C	5.20	121.87	110.80
40	BK	66	VAL	CB-CA-C	-5.20	105.05	111.70
8	AH	167	GLU	CA-C-N	5.20	126.33	119.84
8	AH	167	GLU	C-N-CA	5.20	126.33	119.84
36	BG	39	ILE	CB-CA-C	-5.19	102.77	111.29
6	AF	164	ARG	N-CA-C	-5.19	105.31	110.97
8	AH	145	ALA	N-CA-C	-5.19	104.69	111.02
6	AF	66	PRO	N-CA-C	-5.19	101.78	112.47
17	AQ	48	ILE	N-CA-C	-5.18	100.86	108.85
32	Af	10	ILE	N-CA-C	5.18	120.12	109.34
34	BA	397	A	C8-N9-C1'	-5.18	112.15	127.70
37	BH	38	TYR	N-CA-C	5.18	121.27	109.81
37	BH	164	ALA	N-CA-C	-5.18	105.75	111.71
22	AV	48	ALA	N-CA-C	-5.18	99.76	110.80
1	AA	1646	C	N1-C1'-C2'	5.18	119.77	112.00
43	BN	90	LEU	N-CA-C	5.18	121.25	109.81
1	AA	1142(A)	A	C5'-C4'-C3'	-5.18	108.23	116.00
32	Af	23	VAL	N-CA-C	-5.18	98.57	109.34
1	AA	637	A	N9-C1'-C2'	5.17	121.76	114.00
1	AA	459	U	C2'-C3'-O3'	-5.17	105.94	113.70
8	AH	89	ILE	CB-CA-C	-5.17	104.00	111.34
34	BA	1085	U	C2'-C3'-O3'	5.17	117.25	109.50
1	AA	1315	C	C4'-C3'-O3'	-5.17	105.25	113.00
1	AA	961	C	C2'-C3'-O3'	5.17	117.25	109.50
5	AE	117	MET	N-CA-C	-5.17	99.80	110.80
16	AP	77	ALA	N-CA-C	-5.16	105.56	111.14
23	AW	158	PRO	N-CA-C	5.16	117.00	110.70
34	BA	568	G	N9-C1'-C2'	5.16	119.74	112.00
1	AA	2431	U	O4'-C4'-C3'	-5.16	98.84	104.00
1	AA	2519	U	C2'-C3'-O3'	-5.16	105.96	113.70
8	AH	122	THR	N-CA-C	-5.16	100.99	109.40
19	AS	93	GLU	O-C-N	-5.16	118.09	123.56
1	AA	1981	A	C2'-C3'-O3'	-5.16	105.97	113.70
1	AA	941	A	N9-C1'-C2'	5.15	119.73	112.00
6	AF	131	GLY	N-CA-C	-5.15	100.97	113.18
1	AA	1205	U	C5'-C4'-O4'	5.15	117.53	109.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1758	G	C4'-C3'-O3'	-5.15	105.28	113.00
1	AA	654	A	N9-C1'-C2'	-5.15	104.28	112.00
1	AA	1012	U	O4'-C4'-C3'	-5.15	98.85	104.00
1	AA	2440	C	C2'-C3'-O3'	-5.15	105.98	113.70
17	AQ	52	ILE	N-CA-C	5.15	120.04	109.34
1	AA	2460	U	C4'-C3'-O3'	-5.14	105.28	113.00
19	AS	84	LYS	N-CA-C	5.14	121.76	110.80
28	Ab	21	SER	CA-C-N	-5.14	112.87	120.38
28	Ab	21	SER	C-N-CA	-5.14	112.87	120.38
1	AA	1955	U	C2'-C3'-O3'	-5.14	105.99	113.70
6	AF	26	ALA	N-CA-C	-5.14	105.80	111.71
1	AA	587	C	C2'-C3'-O3'	5.14	117.21	109.50
34	BA	327	A	C4'-C3'-O3'	5.14	117.11	109.40
34	BA	1380	U	N1-C1'-C2'	5.14	119.71	112.00
41	BL	40	ALA	N-CA-C	-5.14	105.59	111.14
1	AA	2144	U	N1-C1'-C2'	5.14	119.71	112.00
3	AC	217	THR	N-CA-C	-5.14	99.86	110.80
34	BA	1054	C	C4'-C3'-O3'	5.14	120.71	113.00
6	AF	82	ILE	N-CA-C	5.14	120.02	109.34
34	BA	1322	C	C2'-C3'-O3'	-5.14	101.80	109.50
37	BH	153	ARG	N-CA-C	-5.14	99.86	110.80
20	AT	88	ARG	N-CA-C	5.13	117.79	109.83
38	BI	116	THR	N-CA-C	-5.13	104.72	112.99
19	AS	82	ARG	N-CA-C	5.13	121.73	110.80
1	AA	2608	G	N9-C1'-C2'	5.13	119.69	112.00
3	AC	225	ASN	CA-C-N	5.13	126.25	119.84
3	AC	225	ASN	C-N-CA	5.13	126.25	119.84
15	AO	73	VAL	N-CA-C	5.13	115.56	110.23
18	AR	8	VAL	N-CA-CB	-5.13	102.77	111.23
21	AU	36	LYS	N-CA-C	-5.13	105.77	111.36
7	AG	43	LEU	N-CA-C	5.12	121.72	110.80
22	AV	56	PRO	N-CA-C	5.12	123.03	112.47
1	AA	2459	A	C8-N9-C1'	-5.12	112.33	127.70
1	AA	2497	A	C4'-C3'-O3'	5.12	120.68	113.00
17	AQ	78	LEU	N-CA-C	5.12	117.76	108.69
1	AA	301	G	C2'-C3'-O3'	-5.12	106.02	113.70
1	AA	2287	A	C2'-C3'-O3'	-5.12	106.02	113.70
18	AR	80	ILE	N-CA-C	-5.12	105.33	110.30
34	BA	779	C	C5'-C4'-C3'	-5.12	108.32	116.00
1	AA	458	G	C4'-C3'-O3'	-5.12	105.32	113.00
1	AA	1792	G	N9-C1'-C2'	-5.12	104.33	112.00
1	AA	2275	C	C4'-C3'-O3'	-5.12	101.73	109.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1771	C	C4'-C3'-O3'	-5.11	105.33	113.00
22	AV	81	LYS	CA-C-N	5.11	126.23	119.84
22	AV	81	LYS	C-N-CA	5.11	126.23	119.84
34	BA	1212	U	C4'-C3'-O3'	-5.11	105.33	113.00
5	AE	15	PHE	N-CA-C	-5.11	101.66	108.86
1	AA	1153	C	C5'-C4'-C3'	5.11	123.66	116.00
1	AA	1746	G	O4'-C4'-C3'	-5.11	98.89	104.00
4	AD	121	PRO	N-CA-C	5.11	122.99	112.47
23	AW	170	THR	N-CA-C	5.11	121.68	110.80
27	Aa	40	HIS	N-CA-C	5.11	121.10	109.81
29	Ac	36	LEU	O-C-N	5.11	129.38	122.59
34	BA	1064	G	N1-C2-N3	-5.11	108.58	123.90
51	BV	80	PRO	N-CA-C	5.11	122.99	112.47
35	BF	199	TYR	CA-C-N	5.11	131.16	121.97
35	BF	199	TYR	C-N-CA	5.11	131.16	121.97
22	AV	24	VAL	N-CA-C	5.10	119.96	109.34
34	BA	20	U	N1-C1'-C2'	5.10	119.65	112.00
1	AA	282	A	N9-C1'-C2'	-5.10	104.35	112.00
7	AG	132	ASN	N-CA-C	5.10	121.66	110.80
1	AA	1992	G	C5'-C4'-C3'	5.09	122.84	115.20
34	BA	1380	U	C4'-C3'-O3'	-5.09	105.36	113.00
53	BX	63	ILE	N-CA-C	-5.09	104.93	110.23
1	AA	1379	A	N9-C1'-C2'	5.09	121.64	114.00
13	AM	147	LEU	N-CA-C	5.09	116.19	107.28
27	Aa	56	VAL	N-CA-C	5.09	119.93	109.34
1	AA	1707	G	C4'-C3'-O3'	-5.09	105.37	113.00
1	AA	1971	A	N9-C1'-C2'	-5.09	104.37	112.00
38	BI	55	VAL	N-CA-C	5.09	119.92	109.34
19	AS	15	GLU	CA-C-N	-5.08	113.49	119.84
19	AS	15	GLU	C-N-CA	-5.08	113.49	119.84
34	BA	960	U	C2'-C3'-O3'	5.08	121.32	113.70
1	AA	777	A	C5'-C4'-C3'	5.08	123.62	116.00
6	AF	206	ILE	N-CA-C	-5.08	104.83	110.62
12	AL	79	PHE	N-CA-C	-5.08	101.31	109.39
2	AB	7	G	C4'-C3'-O3'	-5.08	105.39	113.00
7	AG	147	ASP	N-CA-C	-5.08	104.38	110.88
1	AA	1726	G	N9-C1'-C2'	5.07	119.61	112.00
6	AF	146	ALA	N-CA-C	-5.07	107.16	113.19
34	BA	388	G	N9-C1'-C2'	5.07	119.61	112.00
3	AC	196	LEU	N-CA-C	-5.07	105.44	110.97
31	Ae	25	MET	N-CA-C	-5.07	103.25	110.35
34	BA	820	U	N1-C1'-C2'	5.07	119.61	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2449	U	N1-C1'-C2'	5.06	119.59	112.00
12	AL	97	ARG	CA-C-N	5.06	126.41	121.65
12	AL	97	ARG	C-N-CA	5.06	126.41	121.65
15	AO	38	VAL	N-CA-C	5.06	119.82	108.88
35	BF	17	PHE	N-CA-C	5.06	121.58	110.80
1	AA	1968	G	C2'-C3'-O3'	-5.06	106.11	113.70
1	AA	1183	G	C2'-C3'-O3'	5.06	117.09	109.50
19	AS	93	GLU	CA-C-N	-5.06	113.68	120.87
19	AS	93	GLU	C-N-CA	-5.06	113.68	120.87
34	BA	346	G	N9-C1'-C2'	5.06	119.59	112.00
1	AA	2488	A	C3'-C2'-O2'	5.06	118.29	110.70
7	AG	37	VAL	N-CA-C	5.06	115.31	107.78
1	AA	703	U	C2'-C3'-O3'	-5.05	106.12	113.70
34	BA	295	C	C2'-C3'-O3'	-5.05	106.12	113.70
35	BF	97	TRP	N-CA-C	5.05	121.57	110.80
5	AE	99	GLY	N-CA-C	-5.05	107.12	114.90
34	BA	817	C	C2'-C3'-O3'	5.05	117.08	109.50
1	AA	1359	A	N9-C1'-C2'	-5.05	104.42	112.00
31	Ae	34	TRP	N-CA-C	5.05	121.56	110.80
34	BA	88	C	O4'-C1'-N1	5.05	116.08	108.50
4	AD	143	HIS	N-CA-C	-5.05	100.96	107.73
11	AK	54	VAL	N-CA-C	5.05	115.98	108.46
11	AK	70	LYS	N-CA-C	5.05	116.75	108.52
1	AA	2596	U	N1-C1'-C2'	-5.05	104.43	112.00
47	BR	48	ALA	N-CA-C	-5.05	105.67	111.07
18	AR	86	ALA	N-CA-C	5.04	117.78	110.42
5	AE	73	GLU	N-CA-C	5.04	117.82	108.94
8	AH	7	LEU	N-CA-C	5.04	120.96	109.81
20	AT	13	SER	N-CA-C	5.04	120.96	109.81
27	Aa	45	GLY	N-CA-C	5.04	120.24	110.66
34	BA	651	C	N1-C1'-C2'	5.04	119.56	112.00
1	AA	1691	C	C3'-C2'-O2'	5.04	118.26	110.70
8	AH	88	LEU	N-CA-C	5.04	116.84	108.02
1	AA	2428	G	N9-C1'-C2'	5.04	119.56	112.00
1	AA	2893	G	C3'-C2'-O2'	5.04	118.26	110.70
37	BH	71	SER	N-CA-C	5.04	121.53	110.80
41	BL	90	GLY	N-CA-C	-5.04	101.24	113.18
19	AS	45	THR	N-CA-C	5.03	121.52	110.80
1	AA	147	U	N1-C1'-C2'	5.03	119.55	112.00
34	BA	1402	C	N1-C1'-C2'	-5.03	104.45	112.00
45	BP	83	VAL	N-CA-C	-5.03	98.88	109.34
34	BA	982	U	C2'-C3'-O3'	-5.03	106.16	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2864	G	C4'-C3'-O3'	-5.03	105.46	113.00
1	AA	1650	G	C5'-C4'-C3'	-5.03	108.46	116.00
1	AA	2572	A	N9-C1'-C2'	5.03	119.54	112.00
18	AR	31	SER	N-CA-C	5.03	121.50	110.80
1	AA	729	G	N9-C1'-C2'	5.02	119.53	112.00
1	AA	1460	A	C2'-C3'-O3'	-5.02	106.17	113.70
27	Aa	20	ASN	N-CA-C	5.02	116.44	108.96
1	AA	2613	U	N1-C1'-C2'	5.02	121.53	114.00
34	BA	1393	U	N1-C1'-C2'	-5.02	104.47	112.00
49	BT	67	THR	N-CA-C	-5.02	100.11	110.80
1	AA	1138	G	C3'-C2'-O2'	5.02	118.22	110.70
6	AF	173	VAL	CB-CA-C	-5.02	103.91	110.98
7	AG	169	ALA	CA-C-N	5.02	127.27	120.65
7	AG	169	ALA	C-N-CA	5.02	127.27	120.65
1	AA	1945	G	C4'-C3'-O3'	-5.02	105.48	113.00
14	AN	91	GLU	N-CA-C	5.01	121.48	110.80
1	AA	930	U	C3'-C2'-O2'	5.01	118.22	110.70
18	AR	85	LYS	N-CA-C	-5.01	100.13	110.80
23	AW	11	GLU	N-CA-C	5.01	121.47	110.80
34	BA	817	C	C1'-C2'-O2'	-5.01	104.28	111.80
40	BK	9	VAL	CB-CA-C	-5.01	106.97	112.68
44	BO	23	ALA	N-CA-C	5.01	117.32	108.75
3	AC	140	PRO	N-CA-C	5.01	122.79	112.47
23	AW	26	GLY	CA-C-N	-5.01	116.49	122.90
23	AW	26	GLY	C-N-CA	-5.01	116.49	122.90
1	AA	978	G	N9-C1'-C2'	5.01	119.51	112.00
1	AA	2717	G	C5'-C4'-C3'	-5.01	108.49	116.00
1	AA	1746	G	C3'-C2'-O2'	5.01	118.21	110.70
1	AA	2459	A	C4'-C3'-O3'	-5.01	105.49	113.00
15	AO	115	GLU	N-CA-C	5.01	114.85	108.24
1	AA	528	A	C2'-C3'-O3'	-5.00	106.20	113.70
22	AV	65	ALA	N-CA-C	5.00	120.87	109.81
24	AX	67	VAL	CB-CA-C	-5.00	103.08	111.29
34	BA	818	G	C5'-C4'-C3'	5.00	122.71	115.20
1	AA	1667	G	C4'-C3'-C2'	-5.00	97.60	102.60
1	AA	1809	A	O4'-C1'-N9	5.00	116.00	108.50
5	AE	21	VAL	CA-C-N	5.00	126.09	119.84
5	AE	21	VAL	C-N-CA	5.00	126.09	119.84
53	BX	36	LEU	CA-CB-CG	-5.00	98.80	116.30

There are no chirality outliers.

All (633) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1000	A	Sidechain
1	AA	1012	U	Sidechain
1	AA	1018	C	Sidechain
1	AA	1020	A	Sidechain
1	AA	1022	G	Sidechain
1	AA	1024	G	Sidechain
1	AA	1026	U	Sidechain
1	AA	1092	C	Sidechain
1	AA	1099	G	Sidechain
1	AA	1101	U	Sidechain
1	AA	1102	C	Sidechain
1	AA	1104	C	Sidechain
1	AA	1113	U	Sidechain
1	AA	1116	C	Sidechain
1	AA	1133	U	Sidechain
1	AA	114	U	Sidechain
1	AA	1141	U	Sidechain
1	AA	1142	U	Sidechain
1	AA	1143	A	Sidechain
1	AA	1154	G	Sidechain
1	AA	1155	A	Sidechain
1	AA	1160	G	Sidechain
1	AA	1179	C	Sidechain
1	AA	1182	A	Sidechain
1	AA	1183	G	Sidechain
1	AA	1194	A	Sidechain
1	AA	1195	G	Sidechain
1	AA	1206	G	Sidechain
1	AA	1238	G	Sidechain
1	AA	1240	U	Sidechain
1	AA	1242	A	Sidechain
1	AA	1247	A	Sidechain
1	AA	1262	A	Sidechain
1	AA	1269	A	Sidechain
1	AA	1273	U	Sidechain
1	AA	1284	A	Sidechain
1	AA	1288	U	Sidechain
1	AA	1297	C	Sidechain
1	AA	1301	A	Sidechain
1	AA	1310	G	Sidechain
1	AA	135	G	Sidechain
1	AA	1357	U	Sidechain
1	AA	1359	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1363	C	Sidechain
1	AA	1367	A	Sidechain
1	AA	1368	G	Sidechain
1	AA	1372	U	Sidechain
1	AA	1379	A	Sidechain
1	AA	138	G	Sidechain
1	AA	1384	A	Sidechain
1	AA	1392	A	Sidechain
1	AA	1393	A	Sidechain
1	AA	1397	U	Sidechain
1	AA	14	A	Sidechain
1	AA	1405	U	Sidechain
1	AA	141(A)	C	Sidechain
1	AA	1416	G	Sidechain
1	AA	1418	G	Sidechain
1	AA	1444(A)	A	Sidechain
1	AA	1450	C	Sidechain
1	AA	1473	G	Sidechain
1	AA	1474	C	Sidechain
1	AA	1477	A	Sidechain
1	AA	1478	G	Sidechain
1	AA	1479	G	Sidechain
1	AA	1489	U	Sidechain
1	AA	1497	U	Sidechain
1	AA	1513	C	Sidechain
1	AA	1515	C	Sidechain
1	AA	1516	U	Sidechain
1	AA	1523	U	Sidechain
1	AA	1525	G	Sidechain
1	AA	1527	G	Sidechain
1	AA	1532	C	Sidechain
1	AA	1537	C	Sidechain
1	AA	1539	G	Sidechain
1	AA	1541	U	Sidechain
1	AA	1559	G	Sidechain
1	AA	1564	C	Sidechain
1	AA	1565	C	Sidechain
1	AA	1568	G	Sidechain
1	AA	1574	C	Sidechain
1	AA	1576	U	Sidechain
1	AA	1590	U	Sidechain
1	AA	1597	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1604	C	Sidechain
1	AA	1606	G	Sidechain
1	AA	1609	A	Sidechain
1	AA	1623	G	Sidechain
1	AA	1625	C	Sidechain
1	AA	1648	C	Sidechain
1	AA	1651	G	Sidechain
1	AA	1655	A	Sidechain
1	AA	1657	C	Sidechain
1	AA	1659	U	Sidechain
1	AA	1661	G	Sidechain
1	AA	1667	G	Sidechain
1	AA	1677	A	Sidechain
1	AA	1681	G	Sidechain
1	AA	1684	C	Sidechain
1	AA	1685	C	Sidechain
1	AA	1686	C	Sidechain
1	AA	1687	G	Sidechain
1	AA	1688	U	Sidechain
1	AA	1691	C	Sidechain
1	AA	1693	U	Sidechain
1	AA	1694	C	Sidechain
1	AA	1699	G	Sidechain
1	AA	1704	G	Sidechain
1	AA	1711	C	Sidechain
1	AA	1716	U	Sidechain
1	AA	1718	G	Sidechain
1	AA	1727	U	Sidechain
1	AA	1735	C	Sidechain
1	AA	1741	C	Sidechain
1	AA	1742	C	Sidechain
1	AA	1743	G	Sidechain
1	AA	176	G	Sidechain
1	AA	1766	U	Sidechain
1	AA	1768	U	Sidechain
1	AA	1774	C	Sidechain
1	AA	1775	U	Sidechain
1	AA	1776	G	Sidechain
1	AA	1777	U	Sidechain
1	AA	1778	U	Sidechain
1	AA	1779	U	Sidechain
1	AA	1780	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1783	A	Sidechain
1	AA	1786	A	Sidechain
1	AA	1790	C	Sidechain
1	AA	1791	A	Sidechain
1	AA	1794	U	Sidechain
1	AA	1798	U	Sidechain
1	AA	1800	C	Sidechain
1	AA	1808	U	Sidechain
1	AA	1809	A	Sidechain
1	AA	1810	A	Sidechain
1	AA	1815	A	Sidechain
1	AA	1822	G	Sidechain
1	AA	1831	G	Sidechain
1	AA	1843	C	Sidechain
1	AA	185	U	Sidechain
1	AA	188	G	Sidechain
1	AA	1902	C	Sidechain
1	AA	192	C	Sidechain
1	AA	1940	U	Sidechain
1	AA	1962	C	Sidechain
1	AA	1964	G	Sidechain
1	AA	1965	C	Sidechain
1	AA	1967	C	Sidechain
1	AA	1971	A	Sidechain
1	AA	1981	A	Sidechain
1	AA	1982	C	Sidechain
1	AA	1983	C	Sidechain
1	AA	1985	G	Sidechain
1	AA	1989	G	Sidechain
1	AA	199	A	Sidechain
1	AA	1998	G	Sidechain
1	AA	2017	U	Sidechain
1	AA	2021	C	Sidechain
1	AA	2026	C	Sidechain
1	AA	2033	A	Sidechain
1	AA	2042	A	Sidechain
1	AA	2048	G	Sidechain
1	AA	2049	G	Sidechain
1	AA	2051	A	Sidechain
1	AA	2061	G	Sidechain
1	AA	2068	U	Sidechain
1	AA	2075	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	2076	U	Sidechain
1	AA	2089	U	Sidechain
1	AA	2094	G	Sidechain
1	AA	2096	U	Sidechain
1	AA	2098	U	Sidechain
1	AA	2103	C	Sidechain
1	AA	2119	A	Sidechain
1	AA	212	G	Sidechain
1	AA	2126	A	Sidechain
1	AA	2130	U	Sidechain
1	AA	2138	C	Sidechain
1	AA	2148	G	Sidechain
1	AA	2161	C	Sidechain
1	AA	2185	C	Sidechain
1	AA	2189	U	Sidechain
1	AA	2190	G	Sidechain
1	AA	2193	G	Sidechain
1	AA	2195	C	Sidechain
1	AA	221	A	Sidechain
1	AA	2215	G	Sidechain
1	AA	224	G	Sidechain
1	AA	2246	G	Sidechain
1	AA	2259	G	Sidechain
1	AA	2262	U	Sidechain
1	AA	2263	C	Sidechain
1	AA	2265	U	Sidechain
1	AA	2267	A	Sidechain
1	AA	2274	A	Sidechain
1	AA	2278	A	Sidechain
1	AA	2284	C	Sidechain
1	AA	2287	A	Sidechain
1	AA	2293	C	Sidechain
1	AA	2295	C	Sidechain
1	AA	2296	U	Sidechain
1	AA	2297	C	Sidechain
1	AA	2299	G	Sidechain
1	AA	2314	C	Sidechain
1	AA	2326	C	Sidechain
1	AA	2332	U	Sidechain
1	AA	2336	A	Sidechain
1	AA	2337	G	Sidechain
1	AA	2352	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	2364	C	Sidechain
1	AA	237	C	Sidechain
1	AA	2384	G	Sidechain
1	AA	2395	C	Sidechain
1	AA	2399	G	Sidechain
1	AA	2406	U	Sidechain
1	AA	2408	U	Sidechain
1	AA	2413	G	Sidechain
1	AA	2422	A	Sidechain
1	AA	2423	U	Sidechain
1	AA	2425	A	Sidechain
1	AA	2427	C	Sidechain
1	AA	2431	U	Sidechain
1	AA	2432	A	Sidechain
1	AA	2433	A	Sidechain
1	AA	2434	A	Sidechain
1	AA	2435	A	Sidechain
1	AA	2436	G	Sidechain
1	AA	2439	A	Sidechain
1	AA	2444	G	Sidechain
1	AA	2449	U	Sidechain
1	AA	2450	A	Sidechain
1	AA	2458	G	Sidechain
1	AA	2467	C	Sidechain
1	AA	2471	C	Sidechain
1	AA	2480	C	Sidechain
1	AA	2483	C	Sidechain
1	AA	2486	G	Sidechain
1	AA	2490	G	Sidechain
1	AA	2491	U	Sidechain
1	AA	2493	U	Sidechain
1	AA	2498	C	Sidechain
1	AA	25	U	Sidechain
1	AA	2500	U	Sidechain
1	AA	2501	C	Sidechain
1	AA	2504	U	Sidechain
1	AA	2505	G	Sidechain
1	AA	2507	C	Sidechain
1	AA	2508	G	Sidechain
1	AA	251	A	Sidechain
1	AA	2510	C	Sidechain
1	AA	2514	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	2515	C	Sidechain
1	AA	2516	G	Sidechain
1	AA	2517	C	Sidechain
1	AA	2519	U	Sidechain
1	AA	2521	C	Sidechain
1	AA	2524	G	Sidechain
1	AA	2527	C	Sidechain
1	AA	2529	G	Sidechain
1	AA	253	C	Sidechain
1	AA	2530	A	Sidechain
1	AA	2537	U	Sidechain
1	AA	2540	C	Sidechain
1	AA	2555	U	Sidechain
1	AA	2560	C	Sidechain
1	AA	2568	C	Sidechain
1	AA	2569	G	Sidechain
1	AA	257	A	Sidechain
1	AA	2579	C	Sidechain
1	AA	2580	U	Sidechain
1	AA	2583	G	Sidechain
1	AA	2590	A	Sidechain
1	AA	2595	G	Sidechain
1	AA	2597	G	Sidechain
1	AA	2601	C	Sidechain
1	AA	2602	A	Sidechain
1	AA	2607	G	Sidechain
1	AA	2608	G	Sidechain
1	AA	2609	U	Sidechain
1	AA	2613	U	Sidechain
1	AA	2615	U	Sidechain
1	AA	2619	C	Sidechain
1	AA	2623	G	Sidechain
1	AA	2629	A	Sidechain
1	AA	2637	U	Sidechain
1	AA	2642	G	Sidechain
1	AA	2645	G	Sidechain
1	AA	2684	U	Sidechain
1	AA	2687	U	Sidechain
1	AA	2698	U	Sidechain
1	AA	270(C)	C	Sidechain
1	AA	270(D)	C	Sidechain
1	AA	270(G)	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	270(Q)	C	Sidechain
1	AA	2706	G	Sidechain
1	AA	2724	C	Sidechain
1	AA	2725	A	Sidechain
1	AA	273(C)	C	Sidechain
1	AA	273(D)	C	Sidechain
1	AA	2737	G	Sidechain
1	AA	2741	A	Sidechain
1	AA	2746	U	Sidechain
1	AA	2763	G	Sidechain
1	AA	2764	A	Sidechain
1	AA	2777	G	Sidechain
1	AA	2781	A	Sidechain
1	AA	2787	C	Sidechain
1	AA	280	C	Sidechain
1	AA	2816	C	Sidechain
1	AA	2817	G	Sidechain
1	AA	2825	C	Sidechain
1	AA	2853	C	Sidechain
1	AA	2867	G	Sidechain
1	AA	2885	C	Sidechain
1	AA	2887	U	Sidechain
1	AA	2891	G	Sidechain
1	AA	2897	U	Sidechain
1	AA	2898	U	Sidechain
1	AA	2901	C	Sidechain
1	AA	296	C	Sidechain
1	AA	3	U	Sidechain
1	AA	31	C	Sidechain
1	AA	32	C	Sidechain
1	AA	322	A	Sidechain
1	AA	337	C	Sidechain
1	AA	350	U	Sidechain
1	AA	351	G	Sidechain
1	AA	353	G	Sidechain
1	AA	358	U	Sidechain
1	AA	360	G	Sidechain
1	AA	362	U	Sidechain
1	AA	366	C	Sidechain
1	AA	380	U	Sidechain
1	AA	383	U	Sidechain
1	AA	386	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	417	C	Sidechain
1	AA	427	U	Sidechain
1	AA	433	C	Sidechain
1	AA	445	C	Sidechain
1	AA	446	G	Sidechain
1	AA	448	U	Sidechain
1	AA	459	U	Sidechain
1	AA	474	G	Sidechain
1	AA	511	U	Sidechain
1	AA	513	A	Sidechain
1	AA	514	A	Sidechain
1	AA	525	U	Sidechain
1	AA	534	U	Sidechain
1	AA	553	U	Sidechain
1	AA	584	C	Sidechain
1	AA	585	G	Sidechain
1	AA	601	C	Sidechain
1	AA	605	C	Sidechain
1	AA	606	U	Sidechain
1	AA	607	U	Sidechain
1	AA	608	A	Sidechain
1	AA	610	C	Sidechain
1	AA	611	C	Sidechain
1	AA	618(A)	C	Sidechain
1	AA	621	A	Sidechain
1	AA	639	U	Sidechain
1	AA	641	C	Sidechain
1	AA	643	A	Sidechain
1	AA	646	A	Sidechain
1	AA	647	G	Sidechain
1	AA	650	C	Sidechain
1	AA	658	C	Sidechain
1	AA	67	U	Sidechain
1	AA	670	A	Sidechain
1	AA	679	C	Sidechain
1	AA	697	C	Sidechain
1	AA	703	U	Sidechain
1	AA	704	G	Sidechain
1	AA	709	U	Sidechain
1	AA	715	G	Sidechain
1	AA	724	U	Sidechain
1	AA	729	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	730	C	Sidechain
1	AA	733	G	Sidechain
1	AA	744	G	Sidechain
1	AA	750	A	Sidechain
1	AA	758	C	Sidechain
1	AA	76	C	Sidechain
1	AA	762	U	Sidechain
1	AA	767	U	Sidechain
1	AA	774	A	Sidechain
1	AA	775	G	Sidechain
1	AA	776	G	Sidechain
1	AA	779	U	Sidechain
1	AA	786	C	Sidechain
1	AA	792	G	Sidechain
1	AA	795	C	Sidechain
1	AA	800	A	Sidechain
1	AA	801	G	Sidechain
1	AA	805	G	Sidechain
1	AA	807	U	Sidechain
1	AA	811	U	Sidechain
1	AA	821	A	Sidechain
1	AA	830	G	Sidechain
1	AA	832	G	Sidechain
1	AA	835	A	Sidechain
1	AA	843	G	Sidechain
1	AA	847	U	Sidechain
1	AA	848	G	Sidechain
1	AA	858	U	Sidechain
1	AA	860	U	Sidechain
1	AA	865	C	Sidechain
1	AA	9	U	Sidechain
1	AA	913	U	Sidechain
1	AA	915	C	Sidechain
1	AA	922	U	Sidechain
1	AA	924	C	Sidechain
1	AA	930	U	Sidechain
1	AA	931	G	Sidechain
1	AA	944	G	Sidechain
1	AA	946	G	Sidechain
1	AA	955	C	Sidechain
1	AA	965	C	Sidechain
1	AA	969	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	971	C	Sidechain
1	AA	972	G	Sidechain
1	AA	974(A)	C	Sidechain
1	AA	978	G	Sidechain
1	AA	980	A	Sidechain
1	AA	981	A	Sidechain
1	AA	986	C	Sidechain
1	AA	987	G	Sidechain
1	AA	990	A	Sidechain
2	AB	10	C	Sidechain
2	AB	101	A	Sidechain
2	AB	109	G	Sidechain
2	AB	11	C	Sidechain
2	AB	33	G	Sidechain
2	AB	34	U	Sidechain
2	AB	55	U	Sidechain
2	AB	60	C	Sidechain
2	AB	7	G	Sidechain
2	AB	71	C	Sidechain
2	AB	77	U	Sidechain
2	AB	8	U	Sidechain
2	AB	89	G	Sidechain
2	AB	90	C	Sidechain
2	AB	93	C	Sidechain
2	AB	97	G	Sidechain
2	AB	98	G	Sidechain
3	AC	179	SER	Mainchain
5	AE	151	TYR	Sidechain
6	AF	7	TYR	Sidechain
9	AI	153	LEU	Peptide,Mainchain
11	AK	4	TYR	Sidechain
14	AN	93	TYR	Sidechain
17	AQ	32	TYR	Sidechain
19	AS	91	TYR	Sidechain
27	Aa	32	TYR	Sidechain
28	Ab	29	THR	Mainchain
34	BA	1012	U	Sidechain
34	BA	1027	C	Sidechain
34	BA	1028(A)	C	Sidechain
34	BA	1037	C	Sidechain
34	BA	1038	C	Sidechain
34	BA	1039	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	1040	U	Sidechain
34	BA	1048	G	Sidechain
34	BA	1052	U	Sidechain
34	BA	1054	C	Sidechain
34	BA	1056	U	Sidechain
34	BA	1065	U	Sidechain
34	BA	1067	A	Sidechain
34	BA	1073	U	Sidechain
34	BA	1078	U	Sidechain
34	BA	1083	U	Sidechain
34	BA	1097	C	Sidechain
34	BA	1100	C	Sidechain
34	BA	1121	U	Sidechain
34	BA	1122	U	Sidechain
34	BA	1124	G	Sidechain
34	BA	1128	C	Sidechain
34	BA	1133	G	Sidechain
34	BA	1143	G	Sidechain
34	BA	115	G	Sidechain
34	BA	1150	U	Sidechain
34	BA	1195	C	Sidechain
34	BA	1199	U	Sidechain
34	BA	12	U	Sidechain
34	BA	1226	C	Sidechain
34	BA	1235	U	Sidechain
34	BA	124	G	Sidechain
34	BA	1246	C	Sidechain
34	BA	125	U	Sidechain
34	BA	1263	C	Sidechain
34	BA	1266	G	Sidechain
34	BA	1277	C	Sidechain
34	BA	1285	A	Sidechain
34	BA	129	U	Sidechain
34	BA	1298	C	Sidechain
34	BA	1302	U	Sidechain
34	BA	131	C	Sidechain
34	BA	1314	C	Sidechain
34	BA	132	C	Sidechain
34	BA	1327	C	Sidechain
34	BA	1328	C	Sidechain
34	BA	1330	U	Sidechain
34	BA	134	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	1347	G	Sidechain
34	BA	135	C	Sidechain
34	BA	1352	C	Sidechain
34	BA	1362	C	Sidechain
34	BA	1370	G	Sidechain
34	BA	1377	A	Sidechain
34	BA	138	G	Sidechain
34	BA	1402	C	Sidechain
34	BA	1404	C	Sidechain
34	BA	1405	G	Sidechain
34	BA	1422	G	Sidechain
34	BA	1427	U	Sidechain
34	BA	145	G	Sidechain
34	BA	146	G	Sidechain
34	BA	1472	U	Sidechain
34	BA	1477	C	Sidechain
34	BA	1481	U	Sidechain
34	BA	1541	U	Sidechain
34	BA	156	G	Sidechain
34	BA	158	G	Sidechain
34	BA	159	G	Sidechain
34	BA	17	U	Sidechain
34	BA	191(C)	G	Sidechain
34	BA	191(D)	U	Sidechain
34	BA	219	C	Sidechain
34	BA	225	C	Sidechain
34	BA	244	U	Sidechain
34	BA	253	U	Sidechain
34	BA	267	C	Sidechain
34	BA	274	A	Sidechain
34	BA	281	G	Sidechain
34	BA	285	G	Sidechain
34	BA	287	U	Sidechain
34	BA	295	C	Sidechain
34	BA	31	G	Sidechain
34	BA	332	G	Sidechain
34	BA	335	C	Sidechain
34	BA	348	G	Sidechain
34	BA	352	C	Sidechain
34	BA	367	U	Sidechain
34	BA	37	U	Sidechain
34	BA	375	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	385	C	Sidechain
34	BA	395	C	Sidechain
34	BA	397	A	Sidechain
34	BA	398	C	Sidechain
34	BA	403	C	Sidechain
34	BA	412	A	Sidechain
34	BA	418	C	Sidechain
34	BA	430	A	Sidechain
34	BA	432	A	Sidechain
34	BA	45	U	Sidechain
34	BA	451	A	Sidechain
34	BA	47	C	Sidechain
34	BA	484	G	Sidechain
34	BA	501	C	Sidechain
34	BA	504	C	Sidechain
34	BA	518	C	Sidechain
34	BA	529	G	Sidechain
34	BA	531	U	Sidechain
34	BA	532	A	Sidechain
34	BA	54	C	Sidechain
34	BA	56	U	Sidechain
34	BA	560	U	Sidechain
34	BA	563	A	Sidechain
34	BA	575	G	Sidechain
34	BA	576	G	Sidechain
34	BA	579	G	Sidechain
34	BA	590	C	Sidechain
34	BA	591	U	Sidechain
34	BA	596	C	Sidechain
34	BA	610	G	Sidechain
34	BA	616	G	Sidechain
34	BA	63	C	Sidechain
34	BA	634	C	Sidechain
34	BA	644	G	Sidechain
34	BA	66	G	Sidechain
34	BA	661	G	Sidechain
34	BA	666	G	Sidechain
34	BA	672	U	Sidechain
34	BA	689	C	Sidechain
34	BA	690	G	Sidechain
34	BA	717	C	Sidechain
34	BA	727	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	729	A	Sidechain
34	BA	734	G	Sidechain
34	BA	739	C	Sidechain
34	BA	741	G	Sidechain
34	BA	75	C	Sidechain
34	BA	760	G	Sidechain
34	BA	763	G	Sidechain
34	BA	770	C	Sidechain
34	BA	779	C	Sidechain
34	BA	792	A	Sidechain
34	BA	808	C	Sidechain
34	BA	813	U	Sidechain
34	BA	817	C	Sidechain
34	BA	82	U	Sidechain
34	BA	834	C	Sidechain
34	BA	853	G	Sidechain
34	BA	862	C	Sidechain
34	BA	863	U	Sidechain
34	BA	875	C	Sidechain
34	BA	88	C	Sidechain
34	BA	883	C	Sidechain
34	BA	887	G	Sidechain
34	BA	895	G	Sidechain
34	BA	898	G	Sidechain
34	BA	901	A	Sidechain
34	BA	902	G	Sidechain
34	BA	904	C	Sidechain
34	BA	905	U	Sidechain
34	BA	911	U	Sidechain
34	BA	912	C	Sidechain
34	BA	923	A	Sidechain
34	BA	947	G	Sidechain
34	BA	955	U	Sidechain
34	BA	961	U	Sidechain
34	BA	974	A	Sidechain
34	BA	983	A	Sidechain
34	BA	989	C	Sidechain
34	BA	998(A)	C	Sidechain
37	BH	54	TYR	Sidechain
39	BJ	4	TYR	Sidechain
44	BO	75	TYR	Sidechain
47	BR	34	TYR	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
55	CA	132	ARG	Sidechain

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	62218	0	31272	16235	0
2	AB	2641	0	1337	609	0
3	AC	1742	0	1796	724	0
4	AD	2124	0	2207	1530	0
5	AE	1578	0	1647	1107	0
6	AF	1625	0	1666	836	0
7	AG	1482	0	1546	898	0
8	AH	1328	0	1407	742	0
9	AI	752	0	363	210	0
10	AJ	993	0	1019	749	0
11	AK	1113	0	1183	802	0
12	AL	932	0	994	778	0
13	AM	1106	0	1183	821	0
14	AN	1080	0	1127	752	0
15	AO	960	0	1021	616	0
16	AP	877	0	938	533	0
17	AQ	976	0	1030	693	0
18	AR	964	0	1022	744	0
19	AS	779	0	852	585	0
20	AT	876	0	941	476	0
21	AU	742	0	800	368	0
22	AV	844	0	930	434	0
23	AW	1435	0	1463	753	0
24	AX	670	0	700	359	0
25	AY	567	0	621	324	0
26	AZ	469	0	518	329	0
27	Aa	581	0	577	398	0
28	Ab	445	0	459	284	0
29	Ac	426	0	452	283	0
30	Ad	430	0	480	277	0
31	Ae	515	0	587	410	0
32	Af	307	0	335	156	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	Ag	620	0	136	155	0
34	BA	32554	0	16389	7535	0
35	BF	1900	0	1951	1092	0
36	BG	1612	0	1677	741	0
37	BH	1703	0	1763	889	0
38	BI	1146	0	1207	605	0
39	BJ	843	0	857	410	0
40	BK	1257	0	1296	582	0
41	BL	1116	0	1177	739	0
42	BM	1010	0	1035	499	0
43	BN	794	0	840	375	0
44	BO	885	0	904	470	0
45	BP	970	0	1057	534	0
46	BQ	914	0	954	658	0
47	BR	492	0	529	284	0
48	BS	734	0	771	377	0
49	BT	700	0	720	365	0
50	BU	857	0	930	476	0
51	BV	597	0	668	388	0
52	BW	647	0	653	538	0
53	BX	763	0	857	418	0
54	BY	208	0	221	92	0
55	CA	4532	0	4424	2490	0
56	AA	42	0	46	19	0
56	BA	42	0	46	15	0
57	CA	32	0	14	39	0
All	All	150547	0	103595	50553	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 200.

All (50553) 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)
10:AJ:112:MET:SD	10:AJ:122:ALA:HB2	1.28	1.69
34:BA:1318:A:H2'	52:BW:37:ARG:CB	1.23	1.68
34:BA:1226:C:C4	46:BQ:104:ARG:HG3	1.16	1.67
34:BA:1311:G:C6	34:BA:1327:C:C5	1.80	1.66
55:CA:13:HIS:CD2	55:CA:106:MET:HB2	1.30	1.66
55:CA:318:PHE:CZ	55:CA:519:TYR:HD1	1.11	1.66
55:CA:318:PHE:CE2	55:CA:519:TYR:CD1	1.82	1.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:9:ALA:CB	55:CA:73:VAL:HG23	1.25	1.63
10:AJ:75:SER:HB3	10:AJ:130:SER:CB	1.24	1.63
1:AA:2447:G:C8	1:AA:2500:U:H3'	1.23	1.62
46:BQ:20:THR:CB	46:BQ:26:GLY:HA2	1.19	1.61
46:BQ:22:ILE:HB	46:BQ:25:ILE:CD1	1.21	1.61
1:AA:1080:C:H5''	10:AJ:128:ALA:CB	1.17	1.61
1:AA:1080:C:C2	10:AJ:129:GLY:HA3	1.32	1.61
10:AJ:23:VAL:HG21	10:AJ:41:PHE:CE2	1.20	1.61
1:AA:2532:G:H4'	1:AA:2657:A:C2	1.35	1.61
34:BA:1310:G:C6	34:BA:1327:C:C4	1.84	1.61
34:BA:1225:A:H5'	52:BW:78:ARG:CD	1.23	1.60
34:BA:1486:G:C5	34:BA:1487:G:C8	1.87	1.60
1:AA:2629:A:H3'	1:AA:2895:U:C6	1.12	1.60
9:AI:140:GLY:CA	33:Ag:137:UNK:HA	1.19	1.60
9:AI:54:ALA:HB2	9:AI:84:GLU:C	1.18	1.60
34:BA:1318:A:C2'	52:BW:37:ARG:HB2	1.20	1.60
55:CA:379:GLU:CG	55:CA:581:THR:HG22	1.28	1.60
10:AJ:75:SER:CB	10:AJ:130:SER:HB3	1.21	1.59
46:BQ:20:THR:HG23	46:BQ:26:GLY:CA	1.16	1.59
9:AI:53:VAL:C	9:AI:85:ASP:HA	1.25	1.58
55:CA:379:GLU:CD	55:CA:581:THR:HG22	1.20	1.58
55:CA:9:ALA:CB	55:CA:73:VAL:CG2	1.76	1.58
46:BQ:16:ASP:CB	46:BQ:34:LEU:CD1	1.80	1.58
46:BQ:4:ILE:CD1	46:BQ:57:ARG:HG3	1.18	1.57
55:CA:400:TYR:CB	55:CA:442:VAL:HG12	1.29	1.57
1:AA:2660:A:H2	55:CA:456:MET:CB	1.13	1.57
55:CA:500:ALA:CB	55:CA:537:CYS:CB	1.81	1.57
46:BQ:16:ASP:CB	46:BQ:34:LEU:HD12	1.14	1.57
52:BW:9:VAL:HG22	52:BW:42:PRO:CB	1.26	1.57
1:AA:1075:C:H1'	10:AJ:90:LYS:CD	1.24	1.56
1:AA:1202:C:C5	1:AA:1203:G:H1'	1.39	1.56
34:BA:1125:U:C5'	43:BN:38:ILE:HD13	1.22	1.56
1:AA:1959:G:C5'	34:BA:1418:A:H1'	1.12	1.55
10:AJ:72:PRO:HG2	10:AJ:77:LEU:CG	1.14	1.55
34:BA:1014:A:H1'	52:BW:34:TRP:CH2	1.35	1.55
55:CA:395:ARG:HG3	55:CA:474:ASP:CB	1.22	1.55
34:BA:358:U:H1'	55:CA:217:TYR:CE1	1.35	1.55
1:AA:1080:C:C5'	10:AJ:128:ALA:CB	1.81	1.55
55:CA:379:GLU:CD	55:CA:581:THR:CG2	1.79	1.55
55:CA:426:LEU:HD13	55:CA:441:TYR:CE1	1.08	1.55
1:AA:1080:C:C4'	10:AJ:128:ALA:HB3	1.17	1.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1319:A:C5'	52:BW:70:LYS:NZ	1.69	1.54
46:BQ:15:VAL:HG21	46:BQ:39:ILE:CG1	1.11	1.54
55:CA:165:ALA:CB	55:CA:171:ILE:HG22	1.32	1.54
55:CA:117:PHE:HE1	55:CA:148:PHE:CD2	1.23	1.54
10:AJ:72:PRO:CB	10:AJ:77:LEU:HD23	1.37	1.53
46:BQ:5:ALA:HB1	46:BQ:67:GLU:CG	1.36	1.53
55:CA:318:PHE:CE2	55:CA:519:TYR:CE1	1.95	1.53
55:CA:405:LEU:CD1	55:CA:464:LEU:N	1.68	1.53
46:BQ:19:LEU:CD1	46:BQ:30:ALA:HA	1.35	1.53
55:CA:13:HIS:CD2	55:CA:108:GLN:HG2	1.40	1.53
55:CA:75:THR:CG2	55:CA:85:VAL:HG22	1.30	1.53
55:CA:13:HIS:NE2	55:CA:106:MET:CB	1.69	1.52
1:AA:6:A:N1	1:AA:2898:U:C5	1.76	1.52
46:BQ:20:THR:CG2	46:BQ:26:GLY:HA2	1.36	1.52
1:AA:2:G:C5	1:AA:2902:C:C4	1.96	1.52
46:BQ:15:VAL:CB	46:BQ:34:LEU:HD23	1.31	1.52
55:CA:446:ARG:HG2	55:CA:480:VAL:CG1	1.37	1.52
1:AA:2629:A:C3'	1:AA:2895:U:H6	1.17	1.52
55:CA:75:THR:HG21	55:CA:85:VAL:CG2	1.35	1.52
55:CA:207:MET:CG	55:CA:226:ILE:HD13	1.04	1.52
55:CA:206:GLN:HG2	55:CA:227:LYS:CB	1.37	1.51
10:AJ:27:LEU:HD21	10:AJ:57:ILE:C	1.33	1.51
52:BW:9:VAL:CG2	52:BW:42:PRO:HB2	1.04	1.51
1:AA:2660:A:C2	55:CA:456:MET:CB	1.91	1.50
34:BA:1311:G:H22	34:BA:1326:C:C1'	1.22	1.50
1:AA:1959:G:C4'	34:BA:1418:A:H1'	1.28	1.50
46:BQ:19:LEU:HD11	46:BQ:30:ALA:CA	1.06	1.50
55:CA:15:ASP:HB2	55:CA:16:HIS:CG	1.45	1.50
46:BQ:20:THR:CG2	46:BQ:26:GLY:CA	1.86	1.50
34:BA:1454:G:H2'	34:BA:1455:G:C8	1.44	1.49
52:BW:15:LEU:CD1	52:BW:71:LEU:HD11	1.43	1.49
10:AJ:17:ALA:CB	10:AJ:42:ASN:N	1.74	1.49
55:CA:163:VAL:CG1	55:CA:173:GLY:N	1.74	1.49
1:AA:1203:G:O6	1:AA:1240:U:C2	1.66	1.48
10:AJ:17:ALA:CB	10:AJ:42:ASN:H	1.20	1.48
10:AJ:23:VAL:C	10:AJ:35:MET:HE1	1.11	1.48
34:BA:1413:A:C2	34:BA:1487:G:N2	1.73	1.48
55:CA:206:GLN:CG	55:CA:227:LYS:HB2	1.40	1.48
55:CA:500:ALA:HB1	55:CA:537:CYS:CB	1.35	1.48
55:CA:405:LEU:CG	55:CA:464:LEU:N	1.76	1.48
1:AA:2652:C:C5	1:AA:2669:G:N2	1.79	1.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:39:ARG:NH1	34:BA:345:C:H3'	1.19	1.47
55:CA:426:LEU:CD1	55:CA:441:TYR:CE1	1.91	1.47
1:AA:2656:U:H1'	55:CA:132:ARG:NH2	1.17	1.47
55:CA:207:MET:HG3	55:CA:226:ILE:CD1	0.99	1.47
1:AA:882:G:H3'	1:AA:883:G:C5'	1.41	1.46
46:BQ:15:VAL:HB	46:BQ:34:LEU:CD2	0.99	1.46
55:CA:318:PHE:CZ	55:CA:519:TYR:CD1	1.95	1.46
46:BQ:5:ALA:CB	46:BQ:67:GLU:HG2	1.45	1.45
34:BA:1312:G:C6	34:BA:1326:C:C4	2.04	1.45
1:AA:1051:G:C1'	1:AA:2752:C:H5'	1.36	1.45
34:BA:1158:C:C2'	35:BF:133:LYS:NZ	1.75	1.45
52:BW:9:VAL:HG13	52:BW:41:VAL:C	1.36	1.45
55:CA:227:LYS:C	55:CA:267:LEU:CD1	1.88	1.45
1:AA:1080:C:C5'	10:AJ:128:ALA:HB1	1.35	1.45
10:AJ:72:PRO:CD	10:AJ:77:LEU:CD2	1.89	1.45
55:CA:6:ARG:CB	55:CA:69:ARG:O	1.64	1.45
46:BQ:15:VAL:CB	46:BQ:39:ILE:CD1	1.95	1.44
1:AA:1906:G:C8	1:AA:1929:G:C8	2.05	1.44
10:AJ:24:GLY:N	10:AJ:35:MET:HE1	1.11	1.44
55:CA:18:LYS:CB	57:CA:701:GCP:O2B	1.66	1.44
55:CA:205:PHE:CZ	55:CA:226:ILE:HD12	1.51	1.43
55:CA:400:TYR:HB3	55:CA:442:VAL:CG1	1.46	1.43
55:CA:8:ILE:C	55:CA:72:ILE:CB	1.90	1.43
10:AJ:24:GLY:N	10:AJ:35:MET:CE	1.80	1.43
34:BA:1486:G:C6	34:BA:1487:G:C8	1.92	1.43
46:BQ:15:VAL:CB	46:BQ:34:LEU:CD2	1.86	1.43
46:BQ:20:THR:HA	46:BQ:26:GLY:N	1.27	1.42
1:AA:2:G:C6	1:AA:2902:C:C4	2.06	1.42
9:AI:54:ALA:CB	9:AI:83:TYR:C	1.90	1.42
46:BQ:10:PRO:O	46:BQ:45:VAL:CG1	1.67	1.42
55:CA:396:LYS:HB2	55:CA:474:ASP:C	1.40	1.42
34:BA:1319:A:H5'	52:BW:70:LYS:CE	1.36	1.42
55:CA:422:ARG:NH1	55:CA:480:VAL:HG22	1.20	1.42
34:BA:1486:G:C6	34:BA:1487:G:N7	1.71	1.42
55:CA:8:ILE:C	55:CA:72:ILE:HB	1.03	1.42
55:CA:15:ASP:HB2	55:CA:16:HIS:ND1	1.30	1.42
55:CA:312:CYS:CB	55:CA:354:ASP:O	1.66	1.42
1:AA:6:A:C2	1:AA:2898:U:C6	2.08	1.41
34:BA:958:A:H1'	52:BW:55:LYS:NZ	1.33	1.41
55:CA:13:HIS:HB2	55:CA:108:GLN:CB	1.50	1.41
55:CA:395:ARG:CG	55:CA:474:ASP:CB	1.94	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:491:ASN:ND2	55:CA:536:ASN:HB2	1.31	1.41
1:AA:715:G:C2	48:BS:53:HIS:CD2	1.98	1.41
1:AA:2651:C:O2	1:AA:2670:A:C2	1.71	1.41
9:AI:140:GLY:CA	33:Ag:137:UNK:CA	1.98	1.41
17:AQ:39:ARG:NH1	34:BA:345:C:C3'	1.81	1.41
1:AA:1637:A:C4'	1:AA:2711:A:O2'	1.66	1.41
55:CA:223:ILE:CA	55:CA:272:ASP:OD2	1.69	1.41
1:AA:1069:A:N1	1:AA:1096:A:H5'	1.36	1.41
33:Ag:25:UNK:CB	33:Ag:130:UNK:CB	1.98	1.41
55:CA:248:ASN:HD21	55:CA:273:ILE:CG1	1.32	1.41
34:BA:1147:C:O2'	42:BM:5:TYR:CE1	1.71	1.40
10:AJ:23:VAL:CG2	10:AJ:41:PHE:HE2	1.30	1.40
34:BA:1220:G:H21	52:BW:55:LYS:CA	1.31	1.40
9:AI:54:ALA:HB1	9:AI:83:TYR:C	0.97	1.40
34:BA:1317:C:O2'	34:BA:1318:A:C5'	1.69	1.40
1:AA:715:G:N2	48:BS:53:HIS:CG	1.90	1.40
1:AA:2807:G:C2	1:AA:2892:A:N6	1.71	1.40
55:CA:312:CYS:CA	55:CA:354:ASP:O	1.69	1.40
55:CA:374:ARG:CD	55:CA:585:ILE:HD11	1.51	1.40
34:BA:1319:A:H5''	52:BW:70:LYS:NZ	1.24	1.39
55:CA:395:ARG:CD	55:CA:474:ASP:CG	1.96	1.39
55:CA:497:VAL:HA	55:CA:514:HIS:CE1	1.57	1.39
1:AA:2791:C:N4	1:AA:2893:G:H8	1.21	1.39
55:CA:15:ASP:CB	55:CA:16:HIS:ND1	1.86	1.39
55:CA:27:GLN:OE1	55:CA:183:MET:CG	1.67	1.39
1:AA:1959:G:H4'	34:BA:1418:A:C1'	1.23	1.39
9:AI:143:GLN:CB	33:Ag:141:UNK:CB	2.00	1.39
55:CA:89:MET:SD	55:CA:116:ALA:HB2	1.63	1.39
1:AA:1059:G:N2	10:AJ:130:SER:HA	1.09	1.38
1:AA:2653:U:N3	1:AA:2668:G:N2	1.64	1.38
55:CA:13:HIS:CG	55:CA:109:THR:HG23	1.58	1.38
55:CA:141:VAL:CG2	55:CA:164:TYR:OH	1.68	1.38
1:AA:882:G:C3'	1:AA:883:G:H5''	1.17	1.38
46:BQ:16:ASP:CG	46:BQ:34:LEU:CD1	1.96	1.38
1:AA:6:A:N1	1:AA:2898:U:C6	1.90	1.38
1:AA:2661:G:OP1	55:CA:14:VAL:HG11	1.22	1.38
34:BA:359:U:H5'	55:CA:216:SER:CB	1.49	1.38
55:CA:117:PHE:CE1	55:CA:148:PHE:CD2	2.09	1.38
46:BQ:10:PRO:CB	46:BQ:45:VAL:HG11	1.50	1.38
55:CA:27:GLN:N	55:CA:28:GLN:CB	1.86	1.38
1:AA:6:A:C2	1:AA:2897:U:C2	2.10	1.38

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1051:G:C2'	1:AA:2752:C:H5'	1.31	1.37
55:CA:395:ARG:CG	55:CA:474:ASP:HB2	1.47	1.37
55:CA:382:VAL:CG2	55:CA:578:VAL:HB	1.53	1.37
1:AA:2807:G:C4	1:AA:2808:U:H5	1.43	1.37
55:CA:230:LYS:CG	55:CA:265:THR:O	1.70	1.37
46:BQ:13:LYS:N	46:BQ:44:ARG:O	1.58	1.37
55:CA:397:GLN:CA	55:CA:473:ASP:N	1.85	1.37
55:CA:117:PHE:CE1	55:CA:148:PHE:CE2	2.11	1.36
55:CA:223:ILE:N	55:CA:272:ASP:HB3	1.32	1.36
55:CA:407:VAL:O	55:CA:436:ARG:CB	1.71	1.36
1:AA:1075:C:C1'	10:AJ:90:LYS:HD3	1.55	1.36
10:AJ:17:ALA:CB	10:AJ:38:VAL:O	1.71	1.36
55:CA:163:VAL:CG1	55:CA:173:GLY:H	1.30	1.36
1:AA:2596:U:H2'	4:AD:242:ARG:CZ	1.55	1.36
55:CA:248:ASN:ND2	55:CA:273:ILE:HG12	1.41	1.36
1:AA:2657:A:N7	1:AA:2664:G:N2	1.74	1.36
10:AJ:37:PHE:CZ	10:AJ:63:ARG:HD3	1.58	1.36
10:AJ:82:ALA:HA	10:AJ:99:ILE:CG2	1.54	1.36
34:BA:1330:U:H5'	46:BQ:70:LEU:CD2	1.55	1.36
55:CA:8:ILE:O	55:CA:72:ILE:HB	1.23	1.36
34:BA:1225:A:C5'	52:BW:78:ARG:HD2	1.53	1.35
46:BQ:15:VAL:CB	46:BQ:39:ILE:HD11	1.49	1.35
55:CA:28:GLN:NE2	55:CA:183:MET:SD	1.99	1.35
1:AA:2459:A:N3	1:AA:2460:U:H1'	1.38	1.35
34:BA:1126:U:OP1	34:BA:1280:A:C8	1.75	1.35
55:CA:8:ILE:O	55:CA:72:ILE:C	1.67	1.35
9:AI:54:ALA:CB	9:AI:84:GLU:C	1.98	1.35
45:BP:106:ASP:HA	55:CA:329:ARG:NE	1.40	1.35
34:BA:1315:U:C2	34:BA:1361:G:O4'	1.78	1.35
47:BR:16:PHE:CE1	52:BW:14:HIS:NE2	1.94	1.35
10:AJ:19:PRO:HG3	10:AJ:36:GLU:C	1.50	1.34
1:AA:2652:C:N3	1:AA:2670:A:C8	1.91	1.34
34:BA:1413:A:N1	34:BA:1487:G:N2	1.73	1.34
34:BA:949:A:C3'	46:BQ:102:ARG:NH1	1.88	1.34
34:BA:1226:C:C4	46:BQ:104:ARG:CG	2.10	1.34
34:BA:1226:C:N4	46:BQ:104:ARG:HG3	1.37	1.34
55:CA:18:LYS:HB2	57:CA:701:GCP:PB	1.66	1.34
1:AA:2532:G:C4'	1:AA:2657:A:C2	2.08	1.34
23:AW:27:VAL:HG23	23:AW:85:HIS:NE2	1.39	1.34
34:BA:1329:A:C4'	46:BQ:29:ARG:NH2	1.74	1.34
55:CA:491:ASN:ND2	55:CA:536:ASN:CB	1.91	1.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:5:A:N1	1:AA:2899:G:C5	1.96	1.34
1:AA:1906:G:C8	1:AA:1929:G:N7	1.93	1.34
12:AL:115:VAL:CB	34:BA:345:C:O2	1.73	1.34
55:CA:227:LYS:O	55:CA:267:LEU:HD11	1.20	1.34
1:AA:1059:G:O2'	10:AJ:74:ALA:CA	1.68	1.33
46:BQ:4:ILE:CD1	46:BQ:57:ARG:CG	2.06	1.33
1:AA:883:G:C2	1:AA:884:C:N4	1.91	1.33
1:AA:1906:G:N9	1:AA:1929:G:N7	1.75	1.33
12:AL:97:ARG:NH1	12:AL:97:ARG:HB2	1.44	1.33
34:BA:949:A:C3'	46:BQ:102:ARG:HH12	1.36	1.33
1:AA:4:C:N3	1:AA:2899:G:N1	1.75	1.33
1:AA:2531:A:C2	1:AA:2658:C:H1'	1.58	1.33
34:BA:1318:A:H2'	52:BW:37:ARG:CA	1.58	1.33
1:AA:1910:G:N2	1:AA:1921:G:C8	1.96	1.33
1:AA:2531:A:N3	1:AA:2658:C:C1'	1.90	1.33
33:Ag:8:UNK:N	33:Ag:147:UNK:CB	1.92	1.33
34:BA:1118:C:OP1	42:BM:103:THR:HG23	1.28	1.33
46:BQ:15:VAL:CG1	46:BQ:39:ILE:HD11	1.58	1.33
1:AA:1907:G:O6	56:AA:3001:NMY:H81	1.29	1.33
1:AA:1909:C:O2	1:AA:1922:G:N1	1.61	1.33
34:BA:1315:U:O2	34:BA:1361:G:C1'	1.76	1.33
55:CA:2:ILE:CG2	55:CA:199:VAL:HG21	1.57	1.33
55:CA:230:LYS:HG2	55:CA:265:THR:O	1.16	1.33
55:CA:250:LYS:O	55:CA:273:ILE:CD1	1.76	1.33
10:AJ:40:ALA:O	10:AJ:66:THR:CG2	1.76	1.32
34:BA:1454:G:OP2	53:BX:39:LYS:CD	1.76	1.32
55:CA:2:ILE:HG13	55:CA:266:ASP:OD2	1.28	1.32
55:CA:164:TYR:N	55:CA:172:ALA:O	1.58	1.32
1:AA:3:U:N3	1:AA:2900:A:C2	1.96	1.32
46:BQ:16:ASP:H	46:BQ:34:LEU:CD1	1.42	1.32
55:CA:380:LEU:HD12	55:CA:580:VAL:CG2	1.57	1.32
9:AI:145:PRO:CA	33:Ag:133:UNK:CB	2.05	1.32
34:BA:1414:U:C2	34:BA:1487:G:N2	1.92	1.32
55:CA:13:HIS:CD2	55:CA:106:MET:CB	2.04	1.32
55:CA:245:LYS:NZ	55:CA:291:THR:HB	1.44	1.32
55:CA:379:GLU:HG2	55:CA:581:THR:CA	1.59	1.32
34:BA:38:G:N2	34:BA:397:A:H5''	1.43	1.32
1:AA:1959:G:C5'	34:BA:1418:A:C1'	2.06	1.32
5:AE:92:THR:HA	5:AE:95:ILE:CB	1.60	1.32
12:AL:6:THR:O	12:AL:20:MET:HA	1.29	1.32
1:AA:879:G:C6	1:AA:897:C:H2'	1.63	1.31

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1908:C:N4	56:AA:3001:NMY:H92	1.28	1.31
5:AE:92:THR:CA	5:AE:95:ILE:HB	1.59	1.31
34:BA:1014:A:H1'	52:BW:34:TRP:CZ3	1.64	1.31
55:CA:9:ALA:HB2	55:CA:73:VAL:CG2	1.46	1.31
10:AJ:72:PRO:HG2	10:AJ:77:LEU:CB	1.59	1.31
34:BA:1318:A:C1'	52:BW:35:SER:OG	1.77	1.31
55:CA:4:LYS:O	55:CA:68:TYR:N	1.59	1.31
55:CA:64:ILE:HD11	55:CA:187:TYR:CB	1.59	1.31
55:CA:491:ASN:HD21	55:CA:536:ASN:CA	1.19	1.31
1:AA:2532:G:C3'	1:AA:2657:A:N1	1.92	1.31
55:CA:69:ARG:HH11	55:CA:253:LYS:NZ	1.28	1.31
10:AJ:75:SER:CB	10:AJ:130:SER:CB	1.83	1.31
34:BA:1308:U:H5'	46:BQ:110:ARG:NH1	1.40	1.31
55:CA:382:VAL:HB	55:CA:569:LEU:CD2	1.59	1.31
1:AA:152:G:O2'	1:AA:153:C:H5'	1.16	1.31
1:AA:883:G:N1	1:AA:884:C:N4	1.79	1.31
1:AA:1847:A:OP1	34:BA:702:A:N1	1.62	1.31
1:AA:2651:C:N3	1:AA:2670:A:C6	1.99	1.31
1:AA:2660:A:C2	55:CA:456:MET:HB2	1.59	1.31
23:AW:27:VAL:HG23	23:AW:85:HIS:CE1	1.65	1.31
34:BA:1310:G:N1	34:BA:1327:C:C5	1.99	1.31
55:CA:163:VAL:HG22	55:CA:173:GLY:C	1.56	1.31
55:CA:310:PHE:HA	55:CA:356:PHE:O	1.21	1.31
55:CA:379:GLU:HG2	55:CA:581:THR:CB	1.59	1.31
1:AA:2:G:C5	1:AA:2902:C:N3	1.96	1.30
1:AA:2807:G:N2	1:AA:2892:A:N6	1.78	1.30
10:AJ:23:VAL:C	10:AJ:35:MET:CE	2.00	1.30
12:AL:3:GLN:NE2	12:AL:33:ALA:HB3	1.45	1.30
32:Af:19:ARG:O	32:Af:22:ARG:HB2	1.31	1.30
55:CA:310:PHE:H	55:CA:385:PRO:CD	1.41	1.30
10:AJ:17:ALA:HA	10:AJ:41:PHE:CB	1.59	1.30
55:CA:10:ILE:CD1	55:CA:21:LEU:HB3	1.60	1.30
55:CA:163:VAL:HG13	55:CA:172:ALA:C	1.57	1.30
55:CA:370:ILE:CG2	55:CA:565:LEU:HD21	1.61	1.30
14:AN:67:ARG:CZ	14:AN:103:MET:HB3	1.60	1.30
34:BA:1220:G:H21	52:BW:55:LYS:CB	1.42	1.30
55:CA:165:ALA:CA	55:CA:171:ILE:HG22	1.61	1.30
1:AA:1036:G:OP1	8:AH:59:ARG:NH1	1.63	1.30
10:AJ:104:VAL:CG1	10:AJ:127:ILE:CG1	2.07	1.30
55:CA:64:ILE:HG23	55:CA:188:GLN:NE2	1.44	1.30
10:AJ:72:PRO:CD	10:AJ:77:LEU:HD23	1.48	1.30

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:43:TYR:HA	27:Aa:61:ARG:NH2	1.45	1.29
55:CA:395:ARG:CB	55:CA:474:ASP:HB2	1.62	1.29
55:CA:400:TYR:HE1	55:CA:444:PRO:CD	1.44	1.29
1:AA:1080:C:O4'	10:AJ:129:GLY:N	1.63	1.29
1:AA:1918:A:H2'	34:BA:1408:A:C5'	1.61	1.29
1:AA:2788:C:N3	1:AA:2789:C:C4	2.00	1.29
6:AF:19:GLU:C	6:AF:20:LEU:HD23	1.55	1.29
34:BA:1319:A:C5'	52:BW:70:LYS:CE	1.91	1.29
46:BQ:8:GLU:CB	46:BQ:22:ILE:HG12	1.60	1.29
55:CA:27:GLN:N	55:CA:28:GLN:HB3	0.98	1.29
55:CA:227:LYS:O	55:CA:267:LEU:CD1	1.78	1.29
55:CA:405:LEU:CG	55:CA:463:GLY:C	2.02	1.29
1:AA:716:A:H1'	48:BS:44:LYS:CD	1.63	1.29
33:Ag:289:UNK:O	33:Ag:343:UNK:HA	1.24	1.29
46:BQ:22:ILE:CB	46:BQ:25:ILE:HD12	1.59	1.29
55:CA:223:ILE:H	55:CA:272:ASP:CB	1.41	1.29
1:AA:1080:C:C4'	10:AJ:128:ALA:CB	2.01	1.29
1:AA:1906:G:C5	1:AA:1929:G:C6	2.19	1.29
55:CA:14:VAL:N	55:CA:108:GLN:HG3	1.47	1.29
55:CA:25:LEU:O	55:CA:28:GLN:HG2	1.30	1.29
34:BA:1117:G:C6	34:BA:1184:G:C6	2.21	1.28
55:CA:9:ALA:HB1	55:CA:73:VAL:CG2	1.46	1.28
1:AA:1051:G:C1'	1:AA:2752:C:OP2	1.80	1.28
18:AR:44:ASN:O	18:AR:47:TYR:HB2	1.31	1.28
1:AA:1067:A:H5''	10:AJ:21:PRO:CG	1.61	1.28
9:AI:140:GLY:HA3	33:Ag:137:UNK:CA	1.61	1.28
33:Ag:308:UNK:CA	55:CA:142:ASP:OD2	1.79	1.28
55:CA:14:VAL:H	55:CA:108:GLN:CG	1.45	1.28
1:AA:1059:G:O2'	10:AJ:74:ALA:C	1.74	1.28
10:AJ:104:VAL:CB	10:AJ:127:ILE:HD13	1.61	1.28
34:BA:359:U:C5'	55:CA:216:SER:CB	2.09	1.28
34:BA:1308:U:C5'	46:BQ:110:ARG:NH1	1.95	1.28
52:BW:15:LEU:CD1	52:BW:71:LEU:CD1	2.10	1.28
55:CA:2:ILE:CG2	55:CA:268:ALA:HB2	1.63	1.28
55:CA:311:PHE:O	55:CA:355:ALA:CA	1.78	1.28
1:AA:1059:G:N2	10:AJ:130:SER:CA	1.93	1.28
1:AA:1202:C:C4	1:AA:1203:G:H1'	1.69	1.28
1:AA:2660:A:N6	55:CA:457:THR:OG1	1.67	1.28
34:BA:359:U:H5''	55:CA:216:SER:OG	1.13	1.28
55:CA:6:ARG:HB2	55:CA:69:ARG:O	1.19	1.28
1:AA:1051:G:H1'	1:AA:2752:C:P	1.72	1.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1241:A:H5''	1:AA:1241:A:N3	1.46	1.27
1:AA:2807:G:C4	1:AA:2808:U:C5	2.21	1.27
4:AD:8:PRO:O	4:AD:25:THR:HA	1.22	1.27
1:AA:1047:G:H2'	1:AA:1110:G:C8	1.51	1.27
1:AA:1081:U:C4'	10:AJ:125:ARG:HB3	1.63	1.27
17:AQ:39:ARG:HD3	34:BA:345:C:OP2	1.22	1.27
34:BA:1226:C:C1'	52:BW:80:TYR:CD1	2.10	1.27
55:CA:82:GLY:HA3	55:CA:361:ARG:CD	1.64	1.27
55:CA:400:TYR:CE1	55:CA:444:PRO:CB	2.17	1.27
4:AD:51:VAL:HB	4:AD:52:ARG:CZ	1.64	1.27
34:BA:1117:G:C6	34:BA:1184:G:C5	2.21	1.27
34:BA:1125:U:O5'	43:BN:38:ILE:HD13	1.33	1.27
55:CA:57:LEU:HG	55:CA:254:VAL:O	1.13	1.27
55:CA:379:GLU:CG	55:CA:581:THR:CG2	2.06	1.27
55:CA:422:ARG:HH11	55:CA:480:VAL:CG2	1.47	1.27
1:AA:1908:C:N4	56:AA:3001:NMY:N9	1.82	1.27
10:AJ:24:GLY:H	10:AJ:35:MET:CE	1.42	1.27
55:CA:13:HIS:CD2	55:CA:108:GLN:CG	2.16	1.27
1:AA:1059:G:O2'	10:AJ:74:ALA:N	1.65	1.27
1:AA:2631:G:C8	1:AA:2894:G:C8	2.21	1.27
10:AJ:40:ALA:CB	10:AJ:66:THR:OG1	1.81	1.27
10:AJ:112:MET:SD	10:AJ:122:ALA:CB	2.21	1.27
34:BA:358:U:C1'	55:CA:217:TYR:CE1	2.18	1.27
55:CA:2:ILE:HG23	55:CA:268:ALA:CB	1.65	1.27
55:CA:309:MET:HA	55:CA:383:SER:OG	1.22	1.27
55:CA:165:ALA:HB1	55:CA:171:ILE:CG2	1.62	1.26
55:CA:483:ARG:NH1	55:CA:576:GLU:OE1	1.66	1.26
10:AJ:54:PRO:O	10:AJ:70:LYS:HB2	1.28	1.26
10:AJ:100:THR:OG1	10:AJ:103:GLN:HB2	1.17	1.26
34:BA:359:U:C5'	55:CA:216:SER:OG	1.82	1.26
55:CA:27:GLN:CB	55:CA:28:GLN:HB2	1.63	1.26
55:CA:28:GLN:O	55:CA:60:ASN:OD1	1.53	1.26
55:CA:227:LYS:C	55:CA:267:LEU:HD11	1.50	1.26
1:AA:1105:U:C5	1:AA:1107:G:O6	1.89	1.26
1:AA:2531:A:N3	1:AA:2658:C:H1'	0.94	1.26
17:AQ:39:ARG:HH12	34:BA:345:C:C3'	1.40	1.26
34:BA:949:A:H3'	46:BQ:102:ARG:NH1	1.01	1.26
46:BQ:8:GLU:CD	46:BQ:21:TYR:HB2	1.60	1.26
46:BQ:16:ASP:CG	46:BQ:34:LEU:HD11	1.55	1.26
46:BQ:37:THR:CB	46:BQ:56:LEU:HG	1.59	1.26
55:CA:57:LEU:CG	55:CA:254:VAL:O	1.82	1.26

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:374:ARG:O	55:CA:582:PRO:HA	1.35	1.26
1:AA:5:A:N6	1:AA:2898:U:O4	1.66	1.26
1:AA:1036:G:N1	1:AA:1120:G:C6	2.03	1.26
1:AA:1051:G:C1'	1:AA:2752:C:P	2.24	1.26
34:BA:1311:G:H22	34:BA:1326:C:C2'	1.46	1.26
55:CA:200:ASP:OD2	55:CA:228:ARG:CD	1.83	1.26
1:AA:1081:U:C5'	10:AJ:125:ARG:HB3	1.66	1.26
1:AA:2447:G:C8	1:AA:2500:U:C3'	2.19	1.26
10:AJ:27:LEU:CD2	10:AJ:57:ILE:C	2.09	1.26
33:Ag:308:UNK:HA	55:CA:142:ASP:OD2	1.08	1.26
34:BA:1311:G:C6	34:BA:1327:C:C6	2.23	1.26
46:BQ:8:GLU:HG3	46:BQ:22:ILE:CG1	1.63	1.26
1:AA:1559:G:N1	1:AA:1560:G:H4'	1.47	1.25
1:AA:2661:G:O6	8:AH:175:LYS:HE3	1.09	1.25
12:AL:115:VAL:CG1	34:BA:345:C:O2	1.84	1.25
34:BA:958:A:C2	52:BW:56:GLN:NE2	2.03	1.25
9:AI:54:ALA:HB1	9:AI:84:GLU:N	1.51	1.25
10:AJ:52:ILE:O	10:AJ:72:PRO:HA	1.22	1.25
55:CA:310:PHE:N	55:CA:385:PRO:HD3	1.26	1.25
1:AA:879:G:O6	1:AA:897:C:H2'	1.12	1.25
1:AA:1050:A:C1'	1:AA:2752:C:C5	2.17	1.25
17:AQ:39:ARG:HD3	34:BA:345:C:P	1.77	1.25
23:AW:27:VAL:CG2	23:AW:85:HIS:CE1	2.19	1.25
34:BA:1316:G:H4'	34:BA:1360:A:C6	1.70	1.25
46:BQ:16:ASP:N	46:BQ:34:LEU:CG	1.98	1.25
55:CA:220:VAL:C	55:CA:274:VAL:HG21	1.59	1.25
55:CA:407:VAL:O	55:CA:436:ARG:CG	1.83	1.25
1:AA:2532:G:O3'	1:AA:2657:A:C2	1.89	1.25
12:AL:115:VAL:HB	34:BA:345:C:O2	1.22	1.25
55:CA:377:GLY:HA2	55:CA:582:PRO:CG	1.67	1.25
1:AA:1105:U:H2'	1:AA:1107:G:C8	1.71	1.25
1:AA:1128:A:N6	1:AA:2518:A:H61	1.31	1.25
1:AA:2666:C:H5	1:AA:2667:C:C5	1.55	1.25
10:AJ:53:VAL:CA	10:AJ:71:THR:O	1.83	1.25
17:AQ:111:ARG:HH22	34:BA:1433:A:C5'	1.48	1.25
34:BA:1500:A:OP1	34:BA:1508:G:OP1	1.54	1.25
55:CA:370:ILE:CB	55:CA:565:LEU:HD21	1.64	1.25
10:AJ:100:THR:OG1	10:AJ:103:GLN:CB	1.85	1.25
46:BQ:8:GLU:OE2	46:BQ:21:TYR:CB	1.84	1.25
46:BQ:11:ARG:O	46:BQ:45:VAL:HB	1.34	1.25
55:CA:426:LEU:HD13	55:CA:441:TYR:CZ	1.72	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:17:ARG:CZ	16:AP:89:ARG:HB2	1.66	1.24
55:CA:8:ILE:O	55:CA:72:ILE:CB	1.81	1.24
1:AA:1222:C:H42	1:AA:1227:A:N6	1.34	1.24
1:AA:1912:A:H1'	34:BA:1495:U:C6	1.71	1.24
27:Aa:58:ARG:O	27:Aa:61:ARG:HB2	1.29	1.24
1:AA:1036:G:C6	1:AA:1120:G:O6	1.90	1.24
1:AA:1906:G:C4	1:AA:1929:G:C6	2.25	1.24
1:AA:1914:C:C2	1:AA:1915:U:H5	1.56	1.24
1:AA:2788:C:N4	1:AA:2789:C:N4	1.84	1.24
46:BQ:8:GLU:CG	46:BQ:22:ILE:HG12	1.66	1.24
46:BQ:19:LEU:C	46:BQ:25:ILE:HG21	1.63	1.24
55:CA:15:ASP:OD1	55:CA:106:MET:HG3	1.36	1.24
55:CA:206:GLN:N	55:CA:228:ARG:O	1.67	1.24
55:CA:220:VAL:O	55:CA:274:VAL:CB	1.84	1.24
55:CA:230:LYS:CB	55:CA:265:THR:O	1.83	1.24
1:AA:716:A:H1'	48:BS:44:LYS:CG	1.68	1.24
33:Ag:290:UNK:HA	33:Ag:342:UNK:C	1.65	1.24
34:BA:1125:U:O5'	43:BN:38:ILE:CD1	1.84	1.24
34:BA:1147:C:O2'	42:BM:5:TYR:HE1	0.91	1.24
34:BA:1152:A:OP1	43:BN:13:HIS:NE2	1.70	1.24
1:AA:2:G:C6	1:AA:2902:C:C5	2.26	1.24
1:AA:1906:G:C8	1:AA:1929:G:C5	2.26	1.24
9:AI:140:GLY:HA2	33:Ag:137:UNK:CA	1.60	1.24
34:BA:1309:G:C2	34:BA:1328:C:C4	2.26	1.24
55:CA:11:ILE:HD11	55:CA:95:VAL:CG1	1.67	1.24
1:AA:1046:A:N6	9:AI:9:LEU:H	1.35	1.23
23:AW:24:LEU:O	23:AW:39:VAL:HB	1.32	1.23
1:AA:1051:G:O2'	1:AA:2752:C:C5'	1.85	1.23
55:CA:424:GLY:O	55:CA:441:TYR:HD2	1.17	1.23
1:AA:2445:G:H2'	1:AA:2446:G:C8	1.72	1.23
6:AF:19:GLU:O	6:AF:20:LEU:HD23	1.34	1.23
33:Ag:291:UNK:CB	33:Ag:342:UNK:CB	2.14	1.23
46:BQ:37:THR:HB	46:BQ:56:LEU:CG	1.62	1.23
55:CA:163:VAL:HG22	55:CA:173:GLY:O	1.33	1.23
55:CA:170:GLY:O	55:CA:182:ASP:HB3	1.08	1.23
55:CA:381:ALA:HA	55:CA:578:VAL:O	1.23	1.23
1:AA:2660:A:C2	55:CA:456:MET:HB3	1.60	1.23
13:AM:74:GLU:HB3	13:AM:111:ARG:O	1.37	1.23
19:AS:32:THR:HA	19:AS:64:HIS:O	1.32	1.23
55:CA:55:THR:OG1	55:CA:254:VAL:HG11	1.32	1.23
1:AA:2629:A:C3'	1:AA:2895:U:C6	2.00	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:23:VAL:O	10:AJ:35:MET:CE	1.85	1.23
33:Ag:291:UNK:N	33:Ag:342:UNK:O	1.72	1.23
34:BA:1226:C:H1'	52:BW:80:TYR:CD1	1.34	1.23
55:CA:170:GLY:C	55:CA:182:ASP:HB3	1.63	1.23
55:CA:205:PHE:HA	55:CA:228:ARG:O	1.39	1.23
55:CA:496:ALA:CB	55:CA:513:GLY:O	1.86	1.23
1:AA:2591:C:H2'	1:AA:2592:G:C8	1.73	1.22
6:AF:4:VAL:O	6:AF:20:LEU:CD1	1.87	1.22
34:BA:1308:U:C2'	34:BA:1309:G:OP1	1.85	1.22
55:CA:11:ILE:HG23	55:CA:112:VAL:CG1	1.66	1.22
55:CA:164:TYR:CE1	55:CA:175:ASP:CG	2.16	1.22
55:CA:397:GLN:C	55:CA:473:ASP:N	1.79	1.22
1:AA:1095:A:O4'	55:CA:416:MET:HE1	1.34	1.22
1:AA:2748:A:N3	8:AH:67:LEU:HD21	1.53	1.22
33:Ag:327:UNK:O	33:Ag:348:UNK:CB	1.86	1.22
46:BQ:4:ILE:HD12	46:BQ:57:ARG:CG	1.66	1.22
49:BT:18:ARG:NH1	49:BT:35:LYS:HB2	1.53	1.22
55:CA:446:ARG:CG	55:CA:480:VAL:CG1	2.15	1.22
34:BA:986:A:H5'	52:BW:55:LYS:NZ	1.28	1.22
46:BQ:10:PRO:O	46:BQ:45:VAL:HG12	1.08	1.22
55:CA:27:GLN:OE1	55:CA:183:MET:HG2	1.12	1.22
55:CA:422:ARG:NH1	55:CA:480:VAL:O	1.73	1.22
9:AI:54:ALA:CB	9:AI:84:GLU:N	2.00	1.22
10:AJ:14:ALA:O	10:AJ:49:GLY:CA	1.87	1.22
33:Ag:290:UNK:HA	33:Ag:343:UNK:CA	1.69	1.22
34:BA:1125:U:C5'	43:BN:38:ILE:CD1	2.17	1.22
55:CA:424:GLY:O	55:CA:441:TYR:CD2	1.93	1.22
1:AA:811:U:O4	13:AM:22:GLY:HA3	1.37	1.22
10:AJ:105:LEU:HA	10:AJ:123:ALA:CB	1.69	1.22
12:AL:25:LEU:HB3	12:AL:38:VAL:O	1.38	1.22
34:BA:901:A:C2	34:BA:902:G:H1'	1.74	1.22
55:CA:402:ASN:HB3	55:CA:441:TYR:C	1.62	1.22
55:CA:491:ASN:ND2	55:CA:536:ASN:CA	2.01	1.22
1:AA:1050:A:H1'	1:AA:2752:C:C5	1.27	1.21
15:AO:32:GLY:O	15:AO:115:GLU:HB2	1.39	1.21
34:BA:1486:G:C4	34:BA:1487:G:C8	2.13	1.21
1:AA:1067:A:C5'	10:AJ:21:PRO:HG3	1.70	1.21
1:AA:1206:G:H2'	1:AA:1207:C:O4'	1.39	1.21
1:AA:2333:A:H1'	1:AA:2335:A:N3	1.54	1.21
9:AI:52:PHE:O	9:AI:86:PRO:N	1.71	1.21
34:BA:1125:U:O4	43:BN:5:ARG:NH2	1.70	1.21

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1311:G:N2	34:BA:1326:C:C2'	2.02	1.21
55:CA:487:VAL:CG2	55:CA:532:ASP:OD2	1.85	1.21
1:AA:152:G:C2'	1:AA:153:C:H5'	1.68	1.21
1:AA:896:A:H2	1:AA:897:C:C2	1.57	1.21
1:AA:1046:A:H5''	9:AI:6:ASN:O	1.39	1.21
1:AA:1081:U:C5'	10:AJ:125:ARG:HD3	1.68	1.21
1:AA:2791:C:N4	1:AA:2893:G:C8	1.97	1.21
9:AI:54:ALA:HB2	9:AI:84:GLU:CA	1.69	1.21
13:AM:73:GLY:HA2	13:AM:111:ARG:NH2	1.56	1.21
34:BA:1062:U:H2'	34:BA:1063:C:C5	1.74	1.21
34:BA:1316:G:N2	34:BA:1319:A:C8	2.08	1.21
1:AA:1036:G:C2	1:AA:1120:G:C6	2.27	1.21
1:AA:2459:A:H2'	1:AA:2460:U:O4'	1.30	1.21
17:AQ:33:LYS:HA	17:AQ:46:GLU:O	1.40	1.21
55:CA:165:ALA:CB	55:CA:171:ILE:CG2	2.17	1.21
55:CA:220:VAL:O	55:CA:274:VAL:CG2	1.87	1.21
1:AA:2659:G:H2'	1:AA:2661:G:OP2	1.39	1.21
1:AA:2660:A:C6	55:CA:457:THR:OG1	1.92	1.21
34:BA:449:C:C2	34:BA:450:G:H1'	1.76	1.21
34:BA:1312:G:C6	34:BA:1326:C:C5	2.29	1.21
55:CA:379:GLU:OE1	55:CA:581:THR:CG2	1.82	1.21
55:CA:409:GLU:OE2	55:CA:435:GLY:O	1.57	1.21
1:AA:879:G:O6	1:AA:897:C:C2'	1.87	1.20
4:AD:142:VAL:O	4:AD:163:ALA:HB3	1.41	1.20
34:BA:1158:C:C2'	35:BF:133:LYS:HZ2	1.39	1.20
34:BA:1311:G:C6	34:BA:1327:C:C4	2.22	1.20
1:AA:931:G:C8	1:AA:932:G:H1'	1.76	1.20
1:AA:1906:G:C5	1:AA:1929:G:C5	2.28	1.20
34:BA:1454:G:C2'	34:BA:1455:G:C8	2.24	1.20
1:AA:2:G:C4	1:AA:2902:C:C2	2.30	1.20
1:AA:280:C:O3'	1:AA:281:G:H3'	1.40	1.20
1:AA:1646:C:H3'	1:AA:1647:G:H5'	1.23	1.20
1:AA:1914:C:N3	1:AA:1915:U:H5	1.40	1.20
40:BK:78:ARG:O	40:BK:84:ASN:HA	1.33	1.20
55:CA:230:LYS:CG	55:CA:266:ASP:HA	1.72	1.20
1:AA:1080:C:N1	10:AJ:129:GLY:HA3	1.55	1.20
1:AA:1105:U:O3'	1:AA:1107:G:OP2	1.59	1.20
1:AA:1912:A:C1'	34:BA:1495:U:C6	2.25	1.20
1:AA:2491:U:H3'	1:AA:2491:U:C6	1.69	1.20
10:AJ:17:ALA:HB2	10:AJ:42:ASN:N	0.88	1.20
10:AJ:112:MET:CG	10:AJ:122:ALA:CB	2.20	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:16:ASP:N	46:BQ:34:LEU:CD1	2.02	1.20
1:AA:3:U:N3	1:AA:2900:A:N1	1.89	1.20
1:AA:1051:G:C1'	1:AA:2752:C:C5'	2.17	1.20
1:AA:1078:U:OP1	10:AJ:137:GLU:OE2	1.56	1.20
1:AA:2553:G:N2	1:AA:2554:U:H1'	1.56	1.20
1:AA:2653:U:O4	1:AA:2669:G:C2	1.93	1.20
1:AA:2670:A:O5'	5:AE:206:LYS:NZ	1.72	1.20
25:AY:44:LYS:O	25:AY:48:LEU:HB2	1.41	1.20
34:BA:927:G:O5'	34:BA:1503:A:N6	1.71	1.20
34:BA:1318:A:C2'	52:BW:37:ARG:CB	1.92	1.20
55:CA:10:ILE:H	55:CA:74:ASP:N	1.07	1.20
1:AA:715:G:H22	48:BS:53:HIS:CG	1.56	1.19
1:AA:1312:U:H2'	1:AA:1313:U:O4'	1.34	1.19
1:AA:2532:G:C4'	1:AA:2657:A:N1	2.03	1.19
1:AA:2666:C:C5	1:AA:2667:C:C5	2.29	1.19
17:AQ:53:ARG:HB2	17:AQ:65:LYS:O	1.42	1.19
32:Af:17:ILE:HD12	32:Af:26:ILE:HD12	1.24	1.19
1:AA:1019:U:OP1	1:AA:1036:G:H1'	1.43	1.19
1:AA:1270:C:H1'	1:AA:1325:G:N7	1.58	1.19
1:AA:1703:G:O2'	34:BA:1429:C:H4'	1.38	1.19
1:AA:2653:U:O4	1:AA:2669:G:N2	1.76	1.19
9:AI:145:PRO:N	33:Ag:133:UNK:CB	2.05	1.19
18:AR:89:GLU:HB3	19:AS:52:VAL:N	1.56	1.19
34:BA:1112:C:O2'	36:BG:179:ARG:NH1	1.73	1.19
55:CA:200:ASP:CG	55:CA:228:ARG:HD3	1.67	1.19
55:CA:427:LYS:HG2	55:CA:442:VAL:CG2	1.72	1.19
1:AA:974:G:H3'	1:AA:974(A):C:H5''	1.23	1.19
9:AI:52:PHE:O	9:AI:86:PRO:CB	1.90	1.19
14:AN:7:MET:H	14:AN:70:PRO:HG2	1.03	1.19
34:BA:263:A:H2'	34:BA:264:U:H5''	1.19	1.19
34:BA:1309:G:N2	34:BA:1328:C:C2	2.11	1.19
46:BQ:16:ASP:H	46:BQ:34:LEU:CG	1.53	1.19
55:CA:311:PHE:O	55:CA:355:ALA:HA	1.03	1.19
55:CA:400:TYR:CE1	55:CA:444:PRO:CG	2.26	1.19
55:CA:407:VAL:O	55:CA:436:ARG:HG2	1.41	1.19
1:AA:1042:G:C5	1:AA:1113:U:O4	1.96	1.19
1:AA:1075:C:C1'	10:AJ:90:LYS:CD	2.14	1.19
1:AA:1203:G:C6	1:AA:1241:A:H8	1.60	1.19
1:AA:1804:C:H4'	4:AD:250:TRP:CH2	1.78	1.19
33:Ag:4:UNK:CA	33:Ag:143:UNK:O	1.91	1.19
55:CA:495:LYS:HA	55:CA:517:GLU:HA	1.25	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1069:A:N6	1:AA:1096:A:OP1	1.73	1.19
1:AA:2661:G:O6	8:AH:175:LYS:CE	1.91	1.19
55:CA:6:ARG:H	55:CA:69:ARG:CB	1.56	1.19
1:AA:3:U:C2	1:AA:2900:A:H2	1.61	1.18
10:AJ:51:ALA:O	10:AJ:72:PRO:HB2	1.39	1.18
29:Ac:36:LEU:O	29:Ac:51:GLU:HB3	1.44	1.18
34:BA:1117:G:C2	34:BA:1184:G:C4	2.30	1.18
34:BA:1224:G:H2'	52:BW:78:ARG:NH1	1.55	1.18
55:CA:382:VAL:CG2	55:CA:578:VAL:CB	2.21	1.18
9:AI:52:PHE:CB	9:AI:86:PRO:CB	2.22	1.18
16:AP:3:ARG:HG2	16:AP:4:LEU:H	1.04	1.18
45:BP:105:TYR:O	55:CA:329:ARG:NH1	1.76	1.18
55:CA:55:THR:C	55:CA:56:ILE:HD12	1.66	1.18
55:CA:400:TYR:HE1	55:CA:444:PRO:CG	1.55	1.18
10:AJ:75:SER:CA	10:AJ:130:SER:HB3	1.72	1.18
10:AJ:112:MET:CG	10:AJ:122:ALA:HB3	1.73	1.18
12:AL:116:SER:OG	34:BA:343:U:O4	1.58	1.18
17:AQ:42:ILE:HD11	34:BA:344:A:O2'	1.39	1.18
34:BA:1317:C:C4	34:BA:1318:A:C4	2.22	1.18
34:BA:1455:G:OP1	53:BX:32:ALA:O	1.61	1.18
41:BL:84:ARG:HH11	41:BL:84:ARG:HB3	1.07	1.18
55:CA:163:VAL:CG2	55:CA:173:GLY:O	1.91	1.18
55:CA:382:VAL:CB	55:CA:569:LEU:HD21	1.72	1.18
1:AA:1046:A:C5	9:AI:7:VAL:N	1.86	1.18
34:BA:665:A:H2'	34:BA:725:G:N2	1.58	1.18
34:BA:1412:C:N3	34:BA:1489:G:C6	2.12	1.18
55:CA:10:ILE:N	55:CA:74:ASP:H	1.35	1.18
1:AA:781:A:H1'	4:AD:222:ARG:HH12	1.07	1.18
1:AA:2532:G:O3'	1:AA:2657:A:N1	1.75	1.18
1:AA:2661:G:C6	8:AH:175:LYS:HE3	1.79	1.18
10:AJ:52:ILE:O	10:AJ:72:PRO:CA	1.92	1.18
14:AN:137:TYR:O	14:AN:138:ASP:CG	1.86	1.18
17:AQ:110:ILE:CD1	34:BA:1431:C:OP1	1.91	1.18
17:AQ:115:ARG:HD3	34:BA:1463:C:OP1	1.43	1.18
34:BA:1330:U:C5'	46:BQ:70:LEU:CD2	2.22	1.18
55:CA:200:ASP:CB	55:CA:228:ARG:HG2	1.71	1.18
55:CA:207:MET:HE3	55:CA:224:GLY:C	1.69	1.18
55:CA:230:LYS:HB3	55:CA:265:THR:O	1.40	1.18
1:AA:559:G:H2'	1:AA:560:C:C6	1.79	1.17
1:AA:2332:U:H4'	1:AA:2336:A:H62	1.07	1.17
17:AQ:32:TYR:O	17:AQ:47:GLY:HA2	1.41	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Ag:4:UNK:HA	33:Ag:143:UNK:O	1.01	1.17
34:BA:1315:U:O2	34:BA:1361:G:N9	1.77	1.17
46:BQ:8:GLU:OE2	46:BQ:21:TYR:HB2	1.41	1.17
55:CA:405:LEU:CD1	55:CA:464:LEU:HD22	1.73	1.17
1:AA:715:G:N2	48:BS:53:HIS:CD2	2.03	1.17
1:AA:1019:U:P	1:AA:1036:G:H1'	1.83	1.17
1:AA:2447:G:H5''	1:AA:2500:U:OP2	1.44	1.17
1:AA:2658:C:N4	1:AA:2664:G:N1	1.92	1.17
9:AI:52:PHE:C	9:AI:86:PRO:CB	2.18	1.17
11:AK:43:THR:HB	11:AK:44:PRO:CD	1.69	1.17
55:CA:85:VAL:HG13	55:CA:88:VAL:HG21	1.19	1.17
55:CA:240:ILE:CB	55:CA:286:ASP:HA	1.70	1.17
1:AA:1466:G:H2'	1:AA:1547:C:H41	1.10	1.17
1:AA:2132:U:H3'	1:AA:2133:G:C5'	1.75	1.17
5:AE:195:LEU:HD13	5:AE:196:VAL:N	1.60	1.17
34:BA:1455:G:C3'	53:BX:31:SER:OG	1.91	1.17
46:BQ:16:ASP:N	46:BQ:34:LEU:HD11	1.58	1.17
46:BQ:29:ARG:HD3	46:BQ:64:TRP:CH2	1.80	1.17
55:CA:220:VAL:O	55:CA:274:VAL:HG21	1.39	1.17
1:AA:1105:U:H2'	1:AA:1107:G:N7	1.59	1.17
1:AA:2421:G:H2'	1:AA:2422:A:H8	1.04	1.17
1:AA:2792:G:N2	1:AA:2804:C:N3	1.93	1.17
4:AD:55:GLY:N	4:AD:219:PRO:HD2	1.59	1.17
10:AJ:104:VAL:CB	10:AJ:127:ILE:CD1	2.19	1.17
24:AX:5:LYS:HG2	24:AX:6:GLY:H	1.05	1.17
34:BA:888:G:N2	34:BA:909:A:H62	1.41	1.17
34:BA:1112:C:O2	36:BG:179:ARG:NH2	1.76	1.17
55:CA:233:PRO:CA	55:CA:249:ALA:O	1.90	1.17
1:AA:1051:G:C2'	1:AA:2752:C:C5'	2.21	1.17
1:AA:1084:A:OP2	9:AI:55:LYS:CB	1.84	1.17
1:AA:1555:G:H2'	1:AA:1556:C:C6	1.80	1.17
4:AD:183:ARG:HG2	4:AD:268:ARG:HB2	1.25	1.17
7:AG:148:MET:HG2	7:AG:151:ALA:HA	1.17	1.17
10:AJ:52:ILE:HG13	10:AJ:76:TYR:CD2	1.78	1.17
19:AS:6:LYS:HB3	19:AS:10:LYS:HA	1.25	1.17
25:AY:27:LEU:HA	25:AY:30:LEU:HG	1.24	1.17
34:BA:1270:C:C1'	34:BA:1313:U:H4'	1.75	1.17
40:BK:115:ARG:HB2	40:BK:118:VAL:HG23	1.26	1.17
46:BQ:22:ILE:CB	46:BQ:25:ILE:CD1	2.15	1.17
53:BX:50:GLU:H	53:BX:99:LEU:HD12	1.03	1.17
55:CA:67:ASP:HB3	55:CA:191:VAL:CG1	1.73	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:75:THR:CG2	55:CA:85:VAL:CG2	2.03	1.17
55:CA:397:GLN:CA	55:CA:472:TYR:C	2.17	1.17
10:AJ:23:VAL:O	10:AJ:35:MET:SD	2.02	1.16
10:AJ:40:ALA:HB1	10:AJ:66:THR:OG1	0.98	1.16
34:BA:1405:G:N2	34:BA:1517:G:H22	1.41	1.16
34:BA:1412:C:C2	34:BA:1489:G:N1	2.13	1.16
34:BA:1454:G:C2'	34:BA:1455:G:H8	1.58	1.16
40:BK:126:ASP:HA	40:BK:131:LYS:HE3	1.25	1.16
55:CA:408:GLU:HG3	55:CA:436:ARG:NH1	1.60	1.16
1:AA:2656:U:C1'	55:CA:132:ARG:NH2	2.07	1.16
9:AI:54:ALA:CA	9:AI:84:GLU:O	1.92	1.16
34:BA:1414:U:O2	34:BA:1487:G:C2	1.83	1.16
46:BQ:19:LEU:CD1	46:BQ:30:ALA:CA	2.01	1.16
46:BQ:20:THR:CB	46:BQ:26:GLY:CA	2.14	1.16
46:BQ:27:LYS:CB	54:BY:7:ARG:HH11	1.58	1.16
55:CA:6:ARG:N	55:CA:68:TYR:O	1.78	1.16
1:AA:197:A:N6	1:AA:248:G:H22	1.41	1.16
1:AA:1677:A:H2'	1:AA:1678:G:C8	1.80	1.16
14:AN:48:GLU:O	14:AN:51:ARG:HG3	1.44	1.16
15:AO:25:ALA:O	15:AO:29:LEU:HG	1.43	1.16
34:BA:1308:U:O3'	46:BQ:92:HIS:NE2	1.78	1.16
55:CA:95:VAL:HG23	55:CA:123:PRO:HA	1.17	1.16
55:CA:382:VAL:HB	55:CA:569:LEU:HD23	1.28	1.16
1:AA:2:G:N7	1:AA:2902:C:N3	1.91	1.16
4:AD:147:LEU:HB3	4:AD:185:VAL:HG22	1.28	1.16
4:AD:196:VAL:HG12	4:AD:197:GLY:H	1.03	1.16
33:Ag:7:UNK:CB	33:Ag:144:UNK:CA	2.22	1.16
34:BA:41:G:H2'	34:BA:42:G:H8	1.08	1.16
34:BA:80:G:H2'	34:BA:81:G:O4'	1.46	1.16
34:BA:764:C:H2'	34:BA:765:G:C8	1.81	1.16
34:BA:1152:A:OP1	43:BN:13:HIS:CD2	1.99	1.16
34:BA:1312:G:C5	34:BA:1326:C:C4	2.33	1.16
34:BA:1486:G:H2'	34:BA:1487:G:C5'	1.74	1.16
46:BQ:16:ASP:HB3	46:BQ:34:LEU:CD1	1.51	1.16
55:CA:38:THR:HA	55:CA:39:GLN:HB3	1.26	1.16
55:CA:486:GLY:HA3	55:CA:527:HIS:HB3	1.26	1.16
1:AA:452:G:H3'	1:AA:453:C:H5''	1.24	1.16
1:AA:1475:G:H1	1:AA:1477:A:N6	1.42	1.16
1:AA:2416:C:H2'	1:AA:2417:C:H5''	1.16	1.16
1:AA:2652:C:N3	1:AA:2670:A:N9	1.92	1.16
10:AJ:52:ILE:O	10:AJ:73:PRO:CD	1.75	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:34:LEU:O	14:AN:103:MET:HB2	1.43	1.16
14:AN:44:ALA:O	14:AN:47:ILE:HB	1.40	1.16
18:AR:88:ILE:C	19:AS:52:VAL:HA	1.70	1.16
33:Ag:289:UNK:C	33:Ag:343:UNK:HA	1.75	1.16
34:BA:1105:A:O2'	34:BA:1106:G:H5'	1.45	1.16
34:BA:1454:G:C6	34:BA:1455:G:O6	1.97	1.16
46:BQ:78:ILE:HA	46:BQ:81:LEU:HD11	1.28	1.16
55:CA:165:ALA:N	55:CA:172:ALA:O	1.78	1.16
55:CA:426:LEU:HB2	55:CA:441:TYR:CE2	1.81	1.16
1:AA:1047:G:C5'	1:AA:1110:G:O6	1.92	1.15
1:AA:2591:C:H2'	1:AA:2592:G:H8	1.01	1.15
14:AN:34:LEU:HA	14:AN:131:ILE:HG12	1.23	1.15
19:AS:64:HIS:HB3	19:AS:96:ILE:HA	1.28	1.15
20:AT:19:LEU:HB3	28:Ab:25:LEU:HD13	1.20	1.15
22:AV:22:GLY:HA3	22:AV:73:ARG:NH2	1.60	1.15
34:BA:1126:U:OP1	34:BA:1280:A:N7	1.77	1.15
34:BA:1271:G:P	34:BA:1314:C:C5'	2.34	1.15
34:BA:1296:C:OP1	46:BQ:44:ARG:HD3	1.42	1.15
40:BK:103:TRP:CH2	40:BK:138:LYS:HA	1.81	1.15
55:CA:509:LYS:CG	55:CA:561:ILE:HD11	1.75	1.15
1:AA:712:G:H2'	1:AA:713:G:H8	0.98	1.15
1:AA:1059:G:O2'	10:AJ:75:SER:N	1.77	1.15
1:AA:1202:C:C5	1:AA:1203:G:C1'	2.29	1.15
1:AA:2416:C:C2'	1:AA:2417:C:H5''	1.77	1.15
7:AG:61:ALA:HB2	7:AG:67:LYS:HB3	1.22	1.15
10:AJ:54:PRO:O	10:AJ:70:LYS:CB	1.94	1.15
34:BA:1319:A:C5'	52:BW:70:LYS:HE2	1.52	1.15
55:CA:15:ASP:CB	55:CA:16:HIS:CE1	2.29	1.15
1:AA:783:A:H5''	1:AA:2589:A:OP1	1.47	1.15
1:AA:1024:G:N2	1:AA:1139:G:H1	1.44	1.15
1:AA:1080:C:C2	10:AJ:129:GLY:CA	2.28	1.15
1:AA:1203:G:C6	1:AA:1240:U:C2	2.35	1.15
1:AA:1542:G:H1'	1:AA:1543:A:C6	1.81	1.15
1:AA:2653:U:C4	1:AA:2668:G:N2	2.13	1.15
1:AA:2701:C:H3'	1:AA:2702:U:H5''	1.17	1.15
2:AB:71:C:C2'	2:AB:72:G:H5'	1.76	1.15
4:AD:127:VAL:HA	4:AD:193:VAL:HG12	1.25	1.15
10:AJ:17:ALA:HB1	10:AJ:38:VAL:O	0.97	1.15
15:AO:78:LYS:O	15:AO:82:GLU:CB	1.94	1.15
34:BA:1220:G:N2	52:BW:55:LYS:HA	1.60	1.15
52:BW:6:LYS:HB3	52:BW:41:VAL:HG11	1.18	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:207:MET:CB	55:CA:226:ILE:HD13	1.75	1.15
55:CA:322:GLU:CG	55:CA:379:GLU:OE1	1.93	1.15
55:CA:380:LEU:O	55:CA:580:VAL:HG22	1.44	1.15
1:AA:2596:U:H2'	4:AD:242:ARG:NH1	1.62	1.15
6:AF:158:THR:HG21	6:AF:196:LEU:H	0.98	1.15
12:AL:112:MET:HG2	34:BA:345:C:N3	1.62	1.15
34:BA:1116:C:O2	34:BA:1184:G:N2	1.78	1.15
34:BA:1311:G:N2	34:BA:1326:C:O2'	1.79	1.15
37:BH:148:VAL:HB	37:BH:181:MET:HE3	1.21	1.15
46:BQ:16:ASP:N	46:BQ:34:LEU:HG	1.59	1.15
49:BT:44:THR:HG23	49:BT:45:THR:H	1.09	1.15
55:CA:13:HIS:CG	55:CA:108:GLN:CG	2.29	1.15
55:CA:18:LYS:N	57:CA:701:GCP:O1B	1.79	1.15
1:AA:221:A:H4'	1:AA:222:A:H5'	1.15	1.15
1:AA:1051:G:O2'	1:AA:2752:C:H5'	1.42	1.15
1:AA:1075:C:H1'	10:AJ:90:LYS:CE	1.76	1.15
1:AA:2278:A:OP1	14:AN:14:ARG:HG3	1.47	1.15
3:AC:100:ILE:HG23	3:AC:127:LEU:HG	1.28	1.15
10:AJ:17:ALA:CA	10:AJ:41:PHE:HB2	1.76	1.15
22:AV:28:LYS:H	22:AV:28:LYS:HE2	1.11	1.15
23:AW:24:LEU:HB2	23:AW:41:LEU:HD21	1.26	1.15
45:BP:36:VAL:O	45:BP:58:VAL:HG13	1.44	1.15
48:BS:6:GLU:HG2	48:BS:7:GLU:H	1.11	1.15
52:BW:41:VAL:HB	52:BW:42:PRO:HD2	1.24	1.15
55:CA:167:ALA:HB2	57:CA:701:GCP:HN1	1.09	1.15
55:CA:382:VAL:CB	55:CA:569:LEU:CD2	2.23	1.15
1:AA:1203:G:C6	1:AA:1241:A:C8	2.33	1.14
1:AA:2416:C:H5''	13:AM:59:LEU:HB2	1.16	1.14
4:AD:142:VAL:HG12	4:AD:193:VAL:HA	1.28	1.14
5:AE:13:ARG:NH1	5:AE:20:ALA:HB3	1.61	1.14
5:AE:117:MET:SD	5:AE:136:ARG:HG2	1.86	1.14
6:AF:89:VAL:HG12	6:AF:90:PHE:H	0.99	1.14
9:AI:54:ALA:HB2	9:AI:85:ASP:N	1.61	1.14
10:AJ:52:ILE:O	10:AJ:73:PRO:N	1.80	1.14
16:AP:11:LYS:O	16:AP:14:VAL:HB	1.47	1.14
17:AQ:50:ILE:CB	17:AQ:66:VAL:HB	1.77	1.14
19:AS:40:LEU:HG	19:AS:55:ALA:N	1.60	1.14
34:BA:1220:G:N2	52:BW:55:LYS:CB	2.10	1.14
43:BN:50:ILE:HA	43:BN:60:ARG:HG3	1.21	1.14
55:CA:8:ILE:O	55:CA:72:ILE:CA	1.95	1.14
55:CA:206:GLN:HB3	55:CA:228:ARG:N	1.61	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:453:SER:HB3	55:CA:570:GLU:OE2	1.47	1.14
1:AA:6:A:C6	1:AA:2898:U:C5	2.03	1.14
1:AA:28:A:H1'	1:AA:513:A:N1	1.61	1.14
1:AA:1080:C:H4'	10:AJ:128:ALA:CB	1.65	1.14
1:AA:2375:G:H21	1:AA:2378:A:N6	1.41	1.14
5:AE:116:VAL:HG21	5:AE:138:PRO:HA	1.17	1.14
10:AJ:40:ALA:O	10:AJ:66:THR:HG21	0.97	1.14
11:AK:74:ARG:HG3	11:AK:82:LEU:HD22	1.21	1.14
15:AO:32:GLY:CA	15:AO:116:LEU:HD21	1.76	1.14
30:Ad:32:LYS:HA	30:Ad:35:ARG:HH11	1.06	1.14
34:BA:1220:G:N3	52:BW:54:GLY:O	1.79	1.14
34:BA:1455:G:O3'	53:BX:31:SER:OG	1.65	1.14
34:BA:1484:C:H2'	34:BA:1485:U:H5'	1.21	1.14
35:BF:59:GLU:HB3	35:BF:221:LEU:HD21	1.29	1.14
52:BW:9:VAL:CG2	52:BW:42:PRO:CB	1.95	1.14
55:CA:233:PRO:HA	55:CA:249:ALA:O	0.98	1.14
55:CA:379:GLU:HG2	55:CA:581:THR:CG2	1.73	1.14
1:AA:612:G:H4'	1:AA:616:A:N6	1.62	1.14
1:AA:953:A:H2'	1:AA:954:G:H5'	1.15	1.14
1:AA:1568:G:OP1	4:AD:61:LEU:HB2	1.47	1.14
1:AA:2496:C:OP1	14:AN:82:ARG:HG3	1.46	1.14
9:AI:145:PRO:HA	33:Ag:133:UNK:CB	1.78	1.14
34:BA:1271:G:P	34:BA:1314:C:H5''	1.87	1.14
34:BA:1315:U:O2	34:BA:1361:G:C4	2.01	1.14
42:BM:55:ALA:CB	42:BM:58:HIS:CE1	2.30	1.14
46:BQ:36:LYS:HG3	46:BQ:56:LEU:HD22	1.30	1.14
55:CA:236:GLN:CB	55:CA:246:THR:O	1.96	1.14
1:AA:242:G:H3'	31:Ae:4:MET:HG3	1.19	1.14
1:AA:2581:G:N1	1:AA:2610:C:H2'	1.62	1.14
4:AD:246:PRO:HD2	4:AD:250:TRP:HB3	1.21	1.14
6:AF:30:PRO:O	6:AF:33:LEU:HG	1.46	1.14
12:AL:64:ARG:HH22	12:AL:77:ILE:HB	1.03	1.14
13:AM:107:LYS:NZ	13:AM:110:TYR:HB3	1.61	1.14
17:AQ:64:ARG:NH1	17:AQ:64:ARG:HA	1.61	1.14
34:BA:266:G:H3'	50:BU:67:LYS:HD2	1.22	1.14
34:BA:1077:G:N2	34:BA:1079:G:H3'	1.63	1.14
34:BA:1151:A:C5	34:BA:1152:A:N7	2.16	1.14
34:BA:1310:G:C6	34:BA:1327:C:C5	2.33	1.14
34:BA:1312:G:N1	34:BA:1326:C:C5	2.16	1.14
37:BH:31:CYS:SG	37:BH:33:MET:SD	2.44	1.14
1:AA:1079:C:O2	10:AJ:132:ARG:CB	1.94	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2658:C:N4	1:AA:2664:G:C2	2.15	1.14
1:AA:2725:A:H2'	1:AA:2726:U:H3'	1.30	1.14
7:AG:19:LEU:HG	7:AG:22:ARG:CZ	1.77	1.14
24:AX:12:ASN:HA	24:AX:14:ARG:CZ	1.78	1.14
26:AZ:4:LEU:HB3	26:AZ:37:LEU:HD23	1.29	1.14
27:Aa:5:ILE:HG22	27:Aa:7:PRO:HD2	1.18	1.14
34:BA:1329:A:H4'	46:BQ:29:ARG:NH2	1.15	1.14
46:BQ:48:LEU:HD13	46:BQ:53:VAL:HG22	1.30	1.14
1:AA:220:G:H4'	1:AA:234:C:H4'	1.28	1.13
1:AA:988:A:H62	26:AZ:13:ILE:HG13	1.14	1.13
1:AA:1095:A:H5'	55:CA:416:MET:HE3	1.16	1.13
1:AA:1252:G:H8	1:AA:1253:A:H1'	1.09	1.13
1:AA:1956:U:H2'	1:AA:1957:C:C6	1.83	1.13
4:AD:147:LEU:HG	4:AD:154:LYS:HD2	1.25	1.13
6:AF:7:TYR:O	6:AF:18:ARG:HG3	1.44	1.13
8:AH:38:SER:HB3	8:AH:41:MET:HG3	1.19	1.13
9:AI:53:VAL:CA	9:AI:85:ASP:HA	1.76	1.13
34:BA:558:G:H3'	34:BA:559:A:H5''	1.26	1.13
37:BH:59:ARG:HA	37:BH:59:ARG:NH1	1.61	1.13
46:BQ:15:VAL:CA	46:BQ:34:LEU:HD21	1.76	1.13
55:CA:27:GLN:CA	55:CA:28:GLN:CB	2.25	1.13
55:CA:164:TYR:CD1	55:CA:175:ASP:OD1	2.01	1.13
1:AA:1203:G:N3	1:AA:1203:G:H2'	1.60	1.13
11:AK:89:LYS:H	11:AK:89:LYS:HE2	1.00	1.13
16:AP:74:ALA:HB1	16:AP:108:GLY:CA	1.77	1.13
18:AR:15:LYS:HA	18:AR:18:LEU:HD23	1.25	1.13
34:BA:761:G:H5'	50:BU:102:GLY:HA3	1.30	1.13
34:BA:1330:U:H5'	46:BQ:70:LEU:HD21	1.23	1.13
34:BA:1454:G:OP2	53:BX:39:LYS:HD2	1.43	1.13
36:BG:189:ALA:HB1	36:BG:196:LEU:HG	1.18	1.13
52:BW:9:VAL:CG1	52:BW:41:VAL:C	2.21	1.13
52:BW:9:VAL:HG11	52:BW:44:MET:HG3	1.27	1.13
55:CA:27:GLN:HB2	55:CA:28:GLN:HB2	1.19	1.13
55:CA:127:ILE:N	55:CA:163:VAL:O	1.80	1.13
55:CA:207:MET:HG2	55:CA:226:ILE:HD13	1.29	1.13
55:CA:400:TYR:CB	55:CA:442:VAL:CG1	2.12	1.13
1:AA:901:A:C5	1:AA:902:C:C4	2.37	1.13
1:AA:1036:G:P	8:AH:59:ARG:NH1	2.21	1.13
1:AA:1174:A:H2'	1:AA:1175:U:H5''	1.30	1.13
1:AA:1872:A:H2'	1:AA:1878:G:H5'	1.24	1.13
1:AA:2489:G:H2'	1:AA:2490:G:C8	1.82	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2651:C:C2	1:AA:2670:A:N1	2.14	1.13
15:AO:78:LYS:O	15:AO:82:GLU:HB2	0.99	1.13
20:AT:59:VAL:HA	20:AT:63:ASP:HA	1.27	1.13
33:Ag:4:UNK:HA	33:Ag:143:UNK:C	1.78	1.13
34:BA:1320:C:C6	52:BW:36:ARG:HG3	1.70	1.13
35:BF:219:VAL:HG12	35:BF:223:ILE:HD11	1.25	1.13
55:CA:382:VAL:CG1	55:CA:569:LEU:HD21	1.78	1.13
55:CA:382:VAL:HG23	55:CA:578:VAL:CG2	1.77	1.13
55:CA:400:TYR:CE1	55:CA:444:PRO:HB3	1.76	1.13
55:CA:405:LEU:HD12	55:CA:464:LEU:HD22	1.31	1.13
55:CA:408:GLU:HG3	55:CA:436:ARG:HH12	1.05	1.13
1:AA:1081:U:H5'	10:AJ:125:ARG:CG	1.78	1.13
1:AA:1095:A:C5'	55:CA:416:MET:HE3	1.79	1.13
1:AA:1906:G:C4	1:AA:1929:G:C5	2.36	1.13
10:AJ:51:ALA:HA	10:AJ:76:TYR:CD1	1.83	1.13
11:AK:89:LYS:H	11:AK:89:LYS:CE	1.62	1.13
19:AS:14:VAL:HG11	19:AS:19:LYS:HG3	1.26	1.13
34:BA:939:G:H5''	40:BK:102:ARG:NH2	1.64	1.13
34:BA:1158:C:O2'	35:BF:133:LYS:CE	1.95	1.13
36:BG:20:SER:HB2	36:BG:40:ARG:HH22	1.13	1.13
42:BM:85:LEU:HD23	42:BM:96:LEU:HD13	1.31	1.13
55:CA:322:GLU:OE2	55:CA:379:GLU:OE1	1.64	1.13
55:CA:379:GLU:OE1	55:CA:581:THR:HG21	1.38	1.13
55:CA:426:LEU:HB2	55:CA:441:TYR:CZ	1.84	1.13
1:AA:287:C:H2'	1:AA:288:C:C5	1.84	1.12
1:AA:1081:U:H5'	10:AJ:125:ARG:CB	1.76	1.12
1:AA:1324:G:H1'	1:AA:1616:A:N6	1.65	1.12
1:AA:1912:A:C1'	34:BA:1495:U:H6	1.61	1.12
3:AC:97:GLU:HA	3:AC:100:ILE:HD12	1.30	1.13
12:AL:10:VAL:HG13	12:AL:11:ALA:H	1.07	1.13
17:AQ:54:ARG:HG2	17:AQ:100:TYR:HB3	1.29	1.12
33:Ag:7:UNK:CB	33:Ag:144:UNK:C	2.26	1.12
34:BA:985:C:O2'	52:BW:55:LYS:NZ	1.81	1.13
34:BA:551:U:H2'	34:BA:552:U:C6	1.84	1.12
34:BA:1014:A:C1'	52:BW:34:TRP:CH2	2.31	1.12
34:BA:1443:G:H4'	34:BA:1446:A:H5'	1.29	1.12
34:BA:1484:C:C2'	34:BA:1485:U:H5'	1.76	1.13
46:BQ:16:ASP:CA	46:BQ:34:LEU:CD1	2.27	1.13
1:AA:2148:G:H2'	1:AA:2149:G:H8	1.00	1.12
3:AC:180:PHE:HB3	3:AC:185:LEU:HD21	1.30	1.12
4:AD:105:ILE:HG13	4:AD:106:ILE:HG12	1.29	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:17:ALA:HA	10:AJ:41:PHE:HB2	1.23	1.12
38:BI:48:ALA:CB	38:BI:53:LEU:HB3	1.77	1.12
53:BX:44:ALA:HB3	53:BX:91:LEU:HD12	1.19	1.12
1:AA:269:U:H5''	1:AA:270(Y):G:H2'	1.23	1.12
1:AA:1128:A:H62	1:AA:2518:A:N6	1.45	1.12
1:AA:1718:G:H2'	1:AA:1725:G:C8	1.84	1.12
6:AF:200:GLU:OE1	6:AF:201:VAL:HG23	1.49	1.12
10:AJ:53:VAL:HA	10:AJ:71:THR:O	0.96	1.12
11:AK:23:LEU:HD12	11:AK:63:THR:HG23	1.26	1.12
12:AL:39:ILE:HG12	12:AL:59:LYS:HZ1	1.08	1.12
15:AO:105:ARG:HA	15:AO:105:ARG:CZ	1.79	1.12
23:AW:176:PRO:HB2	23:AW:179:ASP:HA	1.14	1.12
49:BT:39:TYR:HB2	49:BT:49:LEU:HD13	1.17	1.12
55:CA:163:VAL:HG13	55:CA:173:GLY:N	0.80	1.12
55:CA:237:VAL:O	55:CA:291:THR:CG2	1.96	1.12
55:CA:311:PHE:HB2	55:CA:356:PHE:HB2	1.31	1.12
55:CA:312:CYS:HA	55:CA:354:ASP:O	1.27	1.12
1:AA:261:G:H4'	1:AA:608:A:C2	1.84	1.12
1:AA:261:G:H4'	1:AA:608:A:H2	1.09	1.12
1:AA:270(C):C:H2'	1:AA:270(D):C:H6	1.10	1.12
1:AA:966:G:H1'	1:AA:2267:A:N6	1.61	1.12
1:AA:1598:C:H5''	21:AU:36:LYS:HB3	1.27	1.12
1:AA:2034:U:H3'	1:AA:2035:G:H5''	1.16	1.12
1:AA:2564:A:H2'	1:AA:2565:A:C8	1.84	1.12
4:AD:168:ARG:HG2	4:AD:173:VAL:HG13	1.28	1.12
7:AG:75:LYS:HG2	7:AG:84:LYS:HB2	1.27	1.12
9:AI:53:VAL:C	9:AI:85:ASP:CA	2.22	1.12
13:AM:45:LEU:HD23	13:AM:46:LYS:HG3	1.27	1.12
17:AQ:30:VAL:CG2	17:AQ:90:GLN:HA	1.80	1.12
31:Ae:34:TRP:C	31:Ae:36:LYS:H	1.41	1.12
34:BA:1115:C:C2	34:BA:1186:G:N1	2.17	1.12
38:BI:109:ILE:HG21	38:BI:135:THR:HG21	1.18	1.12
55:CA:223:ILE:HA	55:CA:272:ASP:CG	1.74	1.12
55:CA:227:LYS:C	55:CA:267:LEU:HD12	1.64	1.12
1:AA:2447:G:N7	1:AA:2500:U:H3'	1.62	1.12
5:AE:36:ARG:HG3	5:AE:79:ARG:HH21	1.06	1.12
7:AG:91:ARG:HH11	7:AG:91:ARG:HB2	1.05	1.12
9:AI:141:VAL:CA	33:Ag:134:UNK:HA	1.72	1.12
17:AQ:42:ILE:CD1	34:BA:344:A:O2'	1.98	1.12
22:AV:42:VAL:H	22:AV:61:ILE:HB	1.11	1.12
28:Ab:20:ARG:O	28:Ab:23:HIS:HB2	1.49	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:20:ASN:HD22	29:Ac:41:PRO:HB2	1.09	1.12
34:BA:359:U:C5'	55:CA:216:SER:HB3	1.76	1.12
43:BN:45:ARG:HB3	43:BN:45:ARG:HH11	1.14	1.12
46:BQ:36:LYS:CG	46:BQ:56:LEU:HD22	1.80	1.12
51:BV:66:LEU:HD12	51:BV:67:ALA:N	1.65	1.12
52:BW:18:LYS:HE3	52:BW:18:LYS:HA	1.30	1.12
55:CA:18:LYS:H	57:CA:701:GCP:PB	1.72	1.12
55:CA:62:ALA:CB	55:CA:187:TYR:CD2	2.32	1.12
55:CA:406:ASP:HA	55:CA:407:VAL:HG22	1.27	1.12
55:CA:488:LEU:HD12	55:CA:525:GLY:HA3	1.31	1.12
1:AA:112:U:H3'	1:AA:113:G:H5''	1.12	1.12
1:AA:1351:C:H2'	1:AA:1352:U:H6	1.12	1.12
1:AA:1649:G:H21	15:AO:107:ASP:HB2	0.96	1.12
1:AA:2346:A:H1'	1:AA:2383:G:C8	1.84	1.12
1:AA:2431:U:H2'	1:AA:2432:A:H5''	1.27	1.12
3:AC:19:ILE:HD12	3:AC:223:ARG:HB3	1.26	1.12
4:AD:244:ARG:N	4:AD:245:PRO:HD3	1.61	1.12
5:AE:104:VAL:HG22	5:AE:198:VAL:HG13	1.29	1.12
28:Ab:51:TYR:HB3	28:Ab:55:ARG:HA	1.28	1.12
34:BA:313:A:H2'	34:BA:314:C:C6	1.85	1.12
34:BA:371:G:H2'	34:BA:372:C:H5'	1.13	1.12
50:BU:5:VAL:HG22	50:BU:60:ILE:HA	1.18	1.12
55:CA:13:HIS:NE2	55:CA:106:MET:HB2	0.79	1.12
55:CA:200:ASP:HB2	55:CA:228:ARG:CG	1.80	1.12
55:CA:396:LYS:CB	55:CA:474:ASP:C	2.22	1.12
55:CA:400:TYR:HD1	55:CA:443:ILE:C	1.58	1.12
1:AA:586:A:H5'	6:AF:89:VAL:HG21	1.20	1.11
1:AA:729:G:H2'	1:AA:730:C:H4'	1.18	1.11
1:AA:875:G:N1	1:AA:902:C:N3	1.76	1.11
1:AA:911:A:H8	1:AA:2264:C:H1'	1.08	1.11
1:AA:2148:G:H2'	1:AA:2149:G:C8	1.86	1.11
1:AA:2788:C:H42	1:AA:2789:C:N4	1.46	1.11
7:AG:170:ARG:O	7:AG:174:GLU:HB3	1.48	1.11
10:AJ:112:MET:HE1	10:AJ:119:ASP:HB3	1.29	1.11
14:AN:23:GLY:HA3	14:AN:101:ARG:NH2	1.63	1.11
32:Af:20:HIS:HB2	32:Af:22:ARG:HG3	1.30	1.11
34:BA:1080:A:H5'	38:BI:14:ARG:NH2	1.65	1.11
41:BL:86:ILE:HG21	41:BL:133:LEU:HB2	1.26	1.11
41:BL:87:SER:HB2	41:BL:92:ARG:HA	1.18	1.11
52:BW:32:LYS:HA	52:BW:50:ALA:HB3	1.19	1.11
55:CA:15:ASP:OD1	55:CA:106:MET:CG	1.97	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:206:GLN:O	55:CA:227:LYS:HG2	1.50	1.11
1:AA:881:G:N1	1:AA:896:A:C8	1.98	1.11
1:AA:1047:G:C2'	1:AA:1110:G:C8	2.31	1.11
1:AA:1967:C:H42	1:AA:1968:G:N2	1.48	1.11
1:AA:2047:U:H2'	1:AA:2048:G:C8	1.84	1.11
1:AA:2416:C:OP1	13:AM:59:LEU:HA	1.49	1.11
4:AD:134:ARG:HA	4:AD:168:ARG:NH1	1.63	1.11
4:AD:246:PRO:CD	4:AD:250:TRP:HB3	1.80	1.11
17:AQ:62:THR:CG2	17:AQ:79:HIS:HA	1.80	1.11
19:AS:27:ALA:HB1	19:AS:33:VAL:HG11	1.26	1.11
26:AZ:13:ILE:HG23	26:AZ:14:GLY:H	1.14	1.11
29:Ac:16:CYS:HB2	29:Ac:49:HIS:HA	1.16	1.11
33:Ag:289:UNK:O	33:Ag:343:UNK:CA	1.97	1.11
34:BA:371:G:C2'	34:BA:372:C:H5'	1.80	1.11
34:BA:587:G:H1'	34:BA:755:G:N2	1.65	1.11
34:BA:958:A:N1	52:BW:56:GLN:NE2	1.98	1.11
37:BH:43:HIS:HB3	37:BH:46:LYS:HG3	1.30	1.11
45:BP:56:ALA:HB3	45:BP:68:ALA:O	1.45	1.11
45:BP:84:LEU:HB3	45:BP:104:VAL:HG11	1.30	1.11
48:BS:77:ARG:HH12	48:BS:81:LEU:HB2	1.08	1.11
51:BV:21:LYS:HZ1	51:BV:23:LYS:HB3	1.08	1.11
55:CA:363:GLU:OE2	55:CA:570:GLU:OE2	1.68	1.11
55:CA:509:LYS:HG2	55:CA:561:ILE:HD11	1.25	1.11
1:AA:1079:C:O2	10:AJ:129:GLY:O	1.67	1.11
1:AA:2532:G:H4'	1:AA:2657:A:N1	1.61	1.11
1:AA:2564:A:H2'	1:AA:2565:A:H8	1.04	1.11
1:AA:2659:G:O2'	1:AA:2663:G:N2	1.82	1.11
6:AF:18:ARG:O	6:AF:19:GLU:HG3	1.50	1.11
10:AJ:19:PRO:HG3	10:AJ:37:PHE:N	1.63	1.11
10:AJ:27:LEU:HD21	10:AJ:57:ILE:O	1.50	1.11
12:AL:96:THR:HA	12:AL:117:LEU:HD11	1.26	1.11
17:AQ:64:ARG:HD3	17:AQ:65:LYS:H	1.05	1.11
20:AT:11:ARG:HB2	20:AT:98:LYS:HE3	1.30	1.11
20:AT:13:SER:OG	20:AT:14:PRO:HD2	1.50	1.11
30:Ad:21:ARG:HB3	30:Ad:31:LEU:HD11	1.30	1.11
34:BA:770:C:H1'	34:BA:900:A:H2	1.12	1.11
34:BA:1220:G:N2	52:BW:55:LYS:CA	2.13	1.11
34:BA:1270:C:O3'	34:BA:1314:C:H5'	1.47	1.11
34:BA:1319:A:H4'	52:BW:37:ARG:HA	1.18	1.11
37:BH:55:ALA:O	37:BH:59:ARG:HG2	1.48	1.11
55:CA:41:ARG:HA	55:CA:42:VAL:HG13	1.24	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:382:VAL:HG23	55:CA:578:VAL:CB	1.78	1.11
55:CA:496:ALA:N	55:CA:516:ALA:O	1.83	1.11
1:AA:2239:G:H3'	1:AA:2240:C:H5''	1.23	1.11
4:AD:196:VAL:CG1	4:AD:197:GLY:H	1.61	1.11
5:AE:154:LYS:HZ3	5:AE:156:MET:HE2	1.11	1.11
9:AI:152:VAL:HA	9:AI:155:GLY:HA3	1.30	1.11
10:AJ:10:LEU:CD2	10:AJ:27:LEU:HD21	1.80	1.11
16:AP:3:ARG:HG2	16:AP:4:LEU:HG	1.31	1.11
34:BA:1393:U:H4'	34:BA:1501:C:O2'	1.51	1.11
37:BH:19:LEU:HA	37:BH:21:LEU:HD12	1.20	1.11
42:BM:50:LEU:HD11	42:BM:56:LEU:HA	1.32	1.11
55:CA:7:ASN:OD1	55:CA:71:ASN:HB3	1.50	1.11
55:CA:69:ARG:NH1	55:CA:253:LYS:HZ2	1.46	1.11
55:CA:205:PHE:CA	55:CA:228:ARG:O	1.97	1.11
1:AA:265:A:H8	1:AA:265:A:H3'	1.08	1.11
1:AA:883:G:O2'	1:AA:892:G:N2	1.84	1.11
1:AA:1114:G:N2	1:AA:1115:G:H1'	1.65	1.11
1:AA:1275:A:H2	15:AO:16:HIS:HA	1.10	1.11
1:AA:1961:C:OP1	34:BA:1485:U:H5'	1.49	1.11
2:AB:101:A:H2'	2:AB:102:G:H8	1.13	1.11
8:AH:103:LEU:HB2	8:AH:115:VAL:HB	1.24	1.11
10:AJ:82:ALA:CA	10:AJ:99:ILE:HG21	1.80	1.11
13:AM:46:LYS:HB2	13:AM:49:ARG:HB2	1.31	1.11
17:AQ:62:THR:HG22	17:AQ:79:HIS:CA	1.79	1.11
18:AR:55:ARG:HG3	18:AR:58:ARG:HH21	1.05	1.11
34:BA:1486:G:H2'	34:BA:1487:G:H5''	1.28	1.11
35:BF:174:VAL:O	35:BF:178:ARG:HG2	1.50	1.11
36:BG:126:ARG:HB3	36:BG:128:PHE:HE1	1.03	1.11
44:BO:61:ALA:HB1	44:BO:94:ALA:HB2	1.13	1.11
55:CA:27:GLN:H	55:CA:28:GLN:CB	1.55	1.11
55:CA:170:GLY:O	55:CA:182:ASP:CB	1.97	1.11
55:CA:370:ILE:CG2	55:CA:565:LEU:CD2	2.27	1.11
1:AA:364:C:H2'	1:AA:365:C:C6	1.86	1.10
1:AA:869:G:H2'	1:AA:870:A:H5''	1.11	1.10
1:AA:1069:A:C2	1:AA:1096:A:H5'	1.86	1.10
1:AA:2780:G:N2	11:AK:97:ARG:HH12	1.46	1.10
1:AA:2832:U:H1'	1:AA:2834:G:H21	1.13	1.10
6:AF:197:ASP:HA	6:AF:200:GLU:CG	1.81	1.10
7:AG:53:LEU:HG	7:AG:72:ARG:HD2	1.12	1.10
12:AL:60:ALA:O	12:AL:83:ALA:HB1	1.51	1.10
14:AN:106:VAL:HG22	14:AN:107:ALA:H	1.00	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1125:U:H5''	43:BN:38:ILE:HD13	1.15	1.10
34:BA:1311:G:N1	34:BA:1327:C:C6	2.19	1.10
34:BA:1315:U:O2'	34:BA:1360:A:C2'	1.77	1.10
37:BH:121:VAL:HB	37:BH:136:PRO:HG3	1.26	1.10
50:BU:5:VAL:HG13	50:BU:59:ILE:O	1.49	1.10
55:CA:67:ASP:CB	55:CA:191:VAL:HG13	1.80	1.10
55:CA:141:VAL:HG21	55:CA:164:TYR:OH	1.37	1.10
55:CA:322:GLU:CG	55:CA:581:THR:HB	1.80	1.10
55:CA:397:GLN:CG	55:CA:472:TYR:O	1.99	1.10
1:AA:71:A:H4'	1:AA:72:U:H5''	1.33	1.10
1:AA:1913:A:H4'	1:AA:1914:C:H5'	1.21	1.10
5:AE:173:VAL:HG13	5:AE:184:VAL:HA	1.32	1.10
7:AG:68:PRO:HB3	7:AG:72:ARG:NH1	1.67	1.10
10:AJ:84:LEU:HD12	10:AJ:86:LYS:HE3	1.30	1.10
11:AK:23:LEU:HD11	11:AK:63:THR:H	1.14	1.10
11:AK:69:GLN:HE22	11:AK:87:LEU:HD22	1.10	1.10
15:AO:99:LYS:HD2	15:AO:99:LYS:H	1.05	1.10
34:BA:50:A:H5''	34:BA:51:A:H5'	1.16	1.10
34:BA:1117:G:N1	34:BA:1184:G:C5	2.18	1.10
34:BA:1329:A:OP1	46:BQ:29:ARG:HG2	1.51	1.10
34:BA:1330:U:C5'	46:BQ:70:LEU:HD21	1.79	1.10
45:BP:37:CYS:HA	45:BP:58:VAL:HG22	1.20	1.10
46:BQ:65:LYS:HB2	46:BQ:69:GLU:HB3	1.29	1.10
52:BW:11:VAL:HG23	52:BW:16:LEU:HD13	1.16	1.10
55:CA:73:VAL:HG11	55:CA:88:VAL:HG22	1.11	1.10
55:CA:390:ARG:HG2	55:CA:391:GLU:HG2	1.17	1.10
55:CA:397:GLN:HB3	55:CA:472:TYR:CB	1.80	1.10
1:AA:885:C:H3'	1:AA:886:C:H5'	1.16	1.10
1:AA:976:C:H5'	1:AA:1156:A:H62	0.98	1.10
1:AA:1520:U:H2'	1:AA:1521:G:H5''	1.13	1.10
1:AA:1909:C:O2	1:AA:1922:G:C2	2.04	1.10
1:AA:2327:A:H2'	1:AA:2328:A:H8	1.09	1.10
7:AG:92:VAL:HG13	7:AG:94:LEU:HD13	1.26	1.10
8:AH:43:VAL:HG22	8:AH:52:VAL:HA	1.11	1.10
10:AJ:123:ALA:HA	10:AJ:127:ILE:HG13	1.29	1.10
27:Aa:66:SER:HA	27:Aa:69:LYS:HD2	1.27	1.10
34:BA:1329:A:O2'	46:BQ:70:LEU:CD2	1.98	1.10
45:BP:117:ARG:HH21	45:BP:124:LYS:HA	1.06	1.10
55:CA:18:LYS:HB3	57:CA:701:GCP:O2B	1.43	1.10
55:CA:236:GLN:CG	55:CA:246:THR:O	1.98	1.10
55:CA:370:ILE:HG22	55:CA:565:LEU:CD2	1.81	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:604:PRO:HB2	55:CA:605:LYS:HB3	1.12	1.10
1:AA:1697:G:H3'	1:AA:1698:A:C5'	1.80	1.10
1:AA:2286:A:H2	29:Ac:27:LYS:HB3	1.13	1.10
1:AA:2392:A:H1'	13:AM:55:ARG:NH2	1.66	1.10
1:AA:2748:A:H1'	8:AH:67:LEU:HD22	1.27	1.10
8:AH:35:VAL:HG11	8:AH:72:ILE:HA	1.20	1.10
10:AJ:72:PRO:CG	10:AJ:77:LEU:CG	1.88	1.10
10:AJ:75:SER:OG	10:AJ:130:SER:HB3	1.51	1.10
17:AQ:50:ILE:HB	17:AQ:66:VAL:CB	1.80	1.10
21:AU:44:GLU:HG3	21:AU:51:VAL:HG23	1.28	1.10
26:AZ:6:VAL:HG23	26:AZ:35:ARG:HG3	1.22	1.10
27:Aa:7:PRO:HD3	27:Aa:56:VAL:HG13	1.34	1.10
27:Aa:68:ARG:HH11	27:Aa:68:ARG:N	1.49	1.10
34:BA:408:A:H2'	34:BA:409:G:C8	1.85	1.10
34:BA:986:A:C5'	52:BW:55:LYS:HZ1	1.63	1.10
45:BP:80:HIS:HB3	55:CA:327:THR:N	1.66	1.10
55:CA:10:ILE:HD13	55:CA:21:LEU:CB	1.82	1.10
55:CA:11:ILE:HG23	55:CA:112:VAL:HG11	1.21	1.10
1:AA:259:G:H2'	1:AA:260:G:H8	1.15	1.10
1:AA:893:C:H2'	1:AA:894:C:H6	1.13	1.10
1:AA:1813:G:H4'	4:AD:46:GLN:CB	1.80	1.10
2:AB:71:C:H2'	2:AB:72:G:H5'	1.18	1.10
4:AD:181:GLU:HG3	4:AD:270:ILE:HB	1.26	1.10
5:AE:146:THR:HB	5:AE:147:PRO:HD3	1.29	1.10
15:AO:88:ARG:HB2	15:AO:88:ARG:HH11	0.98	1.10
18:AR:112:ARG:HH12	19:AS:50:PRO:HG3	0.95	1.10
23:AW:4:ARG:HG2	23:AW:5:LEU:H	1.14	1.10
26:AZ:3:ARG:HB3	26:AZ:3:ARG:NH1	1.66	1.10
34:BA:1225:A:C4'	52:BW:78:ARG:HB3	1.81	1.10
35:BF:213:LEU:HD22	35:BF:214:ILE:HD13	1.29	1.10
46:BQ:20:THR:OG1	46:BQ:26:GLY:HA2	1.48	1.10
46:BQ:22:ILE:HB	46:BQ:25:ILE:HD11	1.12	1.10
46:BQ:87:TYR:OH	52:BW:75:ALA:CA	1.80	1.10
49:BT:75:ARG:HG2	49:BT:80:PHE:HB3	1.30	1.10
51:BV:33:ASP:CG	51:BV:34:TYR:H	1.57	1.10
52:BW:9:VAL:HG23	52:BW:42:PRO:HB2	1.31	1.10
55:CA:370:ILE:HB	55:CA:565:LEU:HD21	1.23	1.10
55:CA:491:ASN:HD21	55:CA:536:ASN:CB	1.58	1.10
1:AA:675:A:H4'	6:AF:67:GLN:HE22	1.06	1.09
1:AA:882:G:C3'	1:AA:883:G:C5'	2.03	1.09
1:AA:962:G:H2'	1:AA:963:U:C6	1.87	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1405:U:H2'	1:AA:1406:U:C6	1.86	1.09
1:AA:1488:G:H2'	1:AA:1489:U:H5'	1.33	1.09
1:AA:1754:C:O2	1:AA:1755:A:H1'	1.50	1.09
1:AA:2421:G:H2'	1:AA:2422:A:C8	1.87	1.09
1:AA:2674:G:H2'	1:AA:2675:A:H8	1.09	1.09
12:AL:3:GLN:HE22	12:AL:33:ALA:CB	1.63	1.09
29:Ac:19:ARG:NH1	29:Ac:41:PRO:HG3	1.66	1.09
34:BA:677:U:H2'	34:BA:678:U:C5	1.86	1.09
34:BA:1261:A:H61	34:BA:1274:G:H1'	1.04	1.09
34:BA:1318:A:C1'	52:BW:37:ARG:HB2	1.81	1.09
47:BR:45:ARG:HB2	47:BR:45:ARG:HH11	1.17	1.09
50:BU:25:ARG:HH21	50:BU:40:LYS:HD3	1.07	1.09
52:BW:69:HIS:HB2	52:BW:74:PHE:HZ	1.17	1.09
55:CA:13:HIS:CG	55:CA:108:GLN:HG3	1.87	1.09
55:CA:21:LEU:HD21	55:CA:98:VAL:HG21	1.34	1.09
55:CA:200:ASP:OD2	55:CA:228:ARG:HD3	0.93	1.09
1:AA:775:G:H2'	1:AA:794:G:N7	1.66	1.09
1:AA:1012:U:O4	11:AK:25:ARG:HB3	1.47	1.09
1:AA:1024:G:H5''	1:AA:1025:G:C5'	1.82	1.09
1:AA:1520:U:C2'	1:AA:1521:G:H5''	1.82	1.09
1:AA:1535:U:H2'	1:AA:1536:A:O4'	1.51	1.09
1:AA:1788:C:H2'	4:AD:222:ARG:NH2	1.66	1.09
1:AA:2572:A:H4'	1:AA:2573:C:H5''	1.19	1.09
1:AA:2670:A:N3	1:AA:2671:A:C8	2.20	1.09
5:AE:8:LYS:HA	5:AE:8:LYS:HE2	1.33	1.09
7:AG:130:ASN:O	7:AG:159:VAL:HG23	1.50	1.09
7:AG:148:MET:HG2	7:AG:151:ALA:CA	1.82	1.09
10:AJ:23:VAL:HG12	10:AJ:37:PHE:CD2	1.85	1.09
11:AK:16:ILE:HD11	11:AK:52:VAL:HG22	1.17	1.09
12:AL:62:VAL:HG23	12:AL:83:ALA:HA	1.26	1.09
15:AO:77:ARG:HB2	15:AO:77:ARG:HH11	1.06	1.09
15:AO:79:LEU:HD23	15:AO:80:PHE:N	1.64	1.09
34:BA:9:G:H5''	38:BI:126:ARG:HD3	1.29	1.09
34:BA:291:C:H3'	34:BA:305:G:H22	1.11	1.09
34:BA:1158:C:C2'	35:BF:133:LYS:HZ1	1.48	1.09
34:BA:1310:G:C6	34:BA:1327:C:N4	2.19	1.09
34:BA:1312:G:C5	34:BA:1326:C:N3	2.18	1.09
34:BA:1315:U:O2'	34:BA:1360:A:H2'	1.32	1.09
41:BL:37:ARG:HD3	41:BL:41:ARG:HG3	1.27	1.09
47:BR:58:LYS:HD3	47:BR:59:ALA:N	1.67	1.09
55:CA:82:GLY:HA3	55:CA:361:ARG:HD2	1.10	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:236:GLN:CA	55:CA:247:ARG:HA	1.82	1.09
55:CA:240:ILE:HB	55:CA:286:ASP:CA	1.81	1.09
1:AA:1819:A:H5''	4:AD:178:PRO:HG3	1.32	1.09
1:AA:2047:U:H2'	1:AA:2048:G:H8	1.02	1.09
6:AF:197:ASP:HA	6:AF:200:GLU:HG3	1.09	1.09
10:AJ:15:GLY:H	10:AJ:45:THR:HB	1.05	1.09
18:AR:44:ASN:HD21	19:AS:78:LYS:HG2	1.05	1.09
27:Aa:65:ASP:HA	27:Aa:68:ARG:HH22	1.05	1.09
34:BA:559:A:C4'	34:BA:560:U:H5'	1.82	1.09
34:BA:599:C:H4'	41:BL:130:GLY:HA3	1.17	1.09
38:BI:121:LYS:NZ	38:BI:122:GLU:H	1.48	1.09
46:BQ:87:TYR:OH	52:BW:75:ALA:C	1.94	1.09
52:BW:6:LYS:HB3	52:BW:41:VAL:CG1	1.82	1.09
55:CA:205:PHE:CZ	55:CA:226:ILE:CD1	2.33	1.09
55:CA:380:LEU:HD12	55:CA:580:VAL:HG22	1.24	1.09
1:AA:6:A:C6	1:AA:2897:U:C4	2.41	1.09
1:AA:2063:C:H3'	1:AA:2064:C:H5''	1.33	1.09
1:AA:2348:U:H3'	31:Ae:42:ARG:HH22	0.98	1.09
2:AB:46:A:H2'	2:AB:47:C:C6	1.86	1.09
3:AC:213:TYR:HB3	3:AC:223:ARG:HA	1.33	1.09
4:AD:7:LYS:HG2	4:AD:25:THR:HG22	1.14	1.09
5:AE:13:ARG:HG3	5:AE:22:PRO:HD3	1.15	1.09
9:AI:47:ASN:CB	9:AI:98:LYS:CB	2.31	1.09
10:AJ:19:PRO:HG3	10:AJ:38:VAL:H	1.08	1.09
12:AL:64:ARG:HH21	12:AL:67:LYS:N	1.50	1.09
15:AO:86:ARG:HB3	15:AO:86:ARG:HH11	1.09	1.09
28:Ab:58:LEU:HD22	28:Ab:59:GLU:H	1.03	1.09
34:BA:570:G:H5'	34:BA:820:U:H1'	1.33	1.09
34:BA:678:U:H2'	34:BA:679:C:C6	1.87	1.09
34:BA:1315:U:C2	34:BA:1361:G:C1'	2.33	1.09
35:BF:56:ARG:NH1	35:BF:56:ARG:HB3	1.66	1.09
40:BK:155:ARG:CZ	40:BK:155:ARG:HA	1.82	1.09
46:BQ:10:PRO:HB2	46:BQ:45:VAL:HG11	1.14	1.09
46:BQ:15:VAL:HG11	46:BQ:37:THR:HG21	1.35	1.09
51:BV:58:LEU:HB3	51:BV:62:GLU:HB3	1.27	1.09
51:BV:72:ARG:HA	51:BV:75:ILE:HD12	1.29	1.09
55:CA:73:VAL:HG11	55:CA:88:VAL:CG2	1.81	1.09
55:CA:127:ILE:HB	55:CA:164:TYR:HA	1.35	1.09
55:CA:228:ARG:N	55:CA:267:LEU:HD12	1.65	1.09
55:CA:490:SER:O	55:CA:534:THR:CG2	2.01	1.09
1:AA:172:C:C6	1:AA:173:G:N7	2.20	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:965:C:H5'	1:AA:2273:A:H1'	1.30	1.09
1:AA:1255:U:H5'	1:AA:1256:G:C5'	1.82	1.09
1:AA:1827:C:H2'	1:AA:1828:G:O4'	1.53	1.09
1:AA:2808:U:O3'	1:AA:2810:A:OP1	1.70	1.09
9:AI:140:GLY:HA3	33:Ag:136:UNK:O	1.51	1.09
10:AJ:19:PRO:CG	10:AJ:38:VAL:H	1.63	1.09
12:AL:62:VAL:O	12:AL:63:VAL:HG22	1.52	1.09
13:AM:63:PRO:HB2	13:AM:64:LYS:HE2	1.34	1.09
14:AN:23:GLY:HA3	14:AN:101:ARG:HH21	0.99	1.09
16:AP:62:LYS:HD2	16:AP:64:GLU:HB3	1.17	1.09
18:AR:65:ILE:HD12	18:AR:96:ALA:HB2	1.35	1.09
22:AV:14:LEU:HB2	22:AV:20:TYR:HA	1.32	1.09
31:Ae:50:LEU:HD23	31:Ae:51:ALA:H	1.08	1.09
34:BA:1316:G:H5'	34:BA:1360:A:C4	1.88	1.09
35:BF:88:ALA:HB2	35:BF:219:VAL:HG22	1.13	1.09
45:BP:80:HIS:HB3	55:CA:327:THR:CA	1.78	1.09
52:BW:6:LYS:CB	52:BW:41:VAL:HG11	1.83	1.09
55:CA:57:LEU:HB2	55:CA:254:VAL:HG12	1.15	1.09
55:CA:64:ILE:CD1	55:CA:187:TYR:HB3	1.83	1.09
55:CA:402:ASN:HB3	55:CA:441:TYR:O	1.51	1.09
1:AA:270(X):G:H2'	1:AA:270(Y):G:H5'	1.32	1.08
1:AA:663:G:H5'	13:AM:18:ARG:HB3	1.36	1.08
1:AA:1931:U:H6	1:AA:1932:A:C8	1.69	1.08
1:AA:2630:G:O2'	1:AA:2894:G:O5'	1.72	1.08
5:AE:136:ARG:C	5:AE:137:HIS:HD1	1.61	1.08
7:AG:49:ASP:O	7:AG:53:LEU:HB2	1.52	1.08
10:AJ:17:ALA:HB2	10:AJ:42:ASN:CA	1.82	1.08
11:AK:46:VAL:HG12	11:AK:47:ALA:H	0.98	1.08
14:AN:109:VAL:HG11	14:AN:114:ALA:HB2	1.30	1.08
14:AN:124:LYS:HZ2	14:AN:124:LYS:HB3	0.93	1.08
20:AT:16:LYS:N	20:AT:16:LYS:HZ2	1.51	1.08
23:AW:94:GLU:H	23:AW:95:PRO:HD3	1.12	1.08
25:AY:55:LEU:O	25:AY:58:VAL:HG13	1.51	1.08
26:AZ:9:VAL:HG23	26:AZ:10:LYS:H	1.07	1.08
30:Ad:41:ARG:HH11	30:Ad:41:ARG:HB2	1.17	1.08
33:Ag:288:UNK:HA	33:Ag:344:UNK:CB	1.83	1.08
34:BA:955:U:H1'	34:BA:1227:A:H61	1.14	1.08
34:BA:1268:A:C2	34:BA:1311:G:N3	2.21	1.08
34:BA:1329:A:O2'	46:BQ:70:LEU:HD22	1.53	1.08
34:BA:1477:C:H2'	34:BA:1478:C:H6	1.18	1.08
35:BF:69:LEU:HA	35:BF:91:PRO:O	1.53	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:184:VAL:O	35:BF:198:ASP:HB2	1.51	1.08
36:BG:150:LYS:HB2	36:BG:173:VAL:HG21	1.33	1.08
39:BJ:6:VAL:HG22	39:BJ:8:ILE:HD11	1.33	1.08
41:BL:6:ILE:HG23	41:BL:7:ALA:H	1.06	1.08
44:BO:48:ILE:HD12	44:BO:63:LEU:HD22	1.31	1.08
46:BQ:23:TYR:HD2	46:BQ:67:GLU:HA	1.14	1.08
48:BS:54:ARG:HA	48:BS:57:LEU:HD22	1.35	1.08
55:CA:28:GLN:O	55:CA:60:ASN:CG	1.95	1.08
55:CA:61:THR:HG22	55:CA:65:LYS:HB3	1.35	1.08
55:CA:374:ARG:HD2	55:CA:585:ILE:CD1	1.82	1.08
55:CA:382:VAL:HG22	55:CA:578:VAL:HB	1.16	1.08
55:CA:400:TYR:CE1	55:CA:444:PRO:CD	2.36	1.08
55:CA:446:ARG:HG2	55:CA:480:VAL:HG12	1.14	1.08
55:CA:488:LEU:HG	55:CA:525:GLY:O	1.51	1.08
1:AA:858:U:O2'	1:AA:2268:A:H2'	1.53	1.08
1:AA:2656:U:O4	1:AA:2665:A:N6	1.86	1.08
12:AL:116:SER:HB2	34:BA:343:U:N3	1.67	1.08
17:AQ:111:ARG:HH22	34:BA:1433:A:H5''	0.95	1.08
19:AS:20:LEU:HD13	19:AS:68:LYS:HZ3	1.14	1.08
23:AW:55:HIS:CB	23:AW:101:PRO:HG3	1.83	1.08
27:Aa:18:CYS:H	27:Aa:33:VAL:HB	1.10	1.08
31:Ae:56:GLU:H	31:Ae:56:GLU:CD	1.57	1.08
34:BA:43:C:H5''	49:BT:12:LYS:HB3	1.09	1.08
34:BA:684:A:H4'	44:BO:12:ARG:HH22	1.13	1.08
39:BJ:12:PRO:HB3	39:BJ:58:GLY:HA2	1.31	1.08
39:BJ:23:LYS:O	39:BJ:26:ILE:HB	1.52	1.08
45:BP:106:ASP:HA	55:CA:329:ARG:CD	1.73	1.08
52:BW:10:PHE:N	52:BW:41:VAL:HG21	1.67	1.08
53:BX:62:LEU:HA	53:BX:65:LYS:HG2	1.34	1.08
53:BX:87:LYS:HG3	53:BX:91:LEU:HD21	1.30	1.08
55:CA:310:PHE:O	55:CA:383:SER:O	1.72	1.08
55:CA:370:ILE:HG21	55:CA:565:LEU:HD11	1.26	1.08
55:CA:378:PHE:H	55:CA:582:PRO:HG3	1.16	1.08
55:CA:400:TYR:CE1	55:CA:444:PRO:N	2.22	1.08
1:AA:545:G:H1'	1:AA:549:G:H22	1.14	1.08
1:AA:884:C:C2'	1:AA:885:C:O5'	1.94	1.08
1:AA:1083:U:C2	1:AA:1085:A:C8	2.42	1.08
1:AA:1258:C:H5'	6:AF:84:VAL:HG21	1.34	1.08
1:AA:1907:G:H1	1:AA:1924:C:N4	0.82	1.08
1:AA:2286:A:H4'	1:AA:2287:A:H1'	1.29	1.08
1:AA:2788:C:C4	1:AA:2789:C:C4	2.40	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:44:ASN:HB2	4:AD:217:ARG:HH22	1.15	1.08
5:AE:45:THR:HB	5:AE:81:ILE:HA	1.10	1.08
8:AH:98:LEU:HG	8:AH:123:PHE:HB2	1.33	1.08
10:AJ:12:LEU:CD1	10:AJ:41:PHE:CZ	2.37	1.08
12:AL:39:ILE:HG12	12:AL:59:LYS:NZ	1.67	1.08
14:AN:44:ALA:HA	14:AN:47:ILE:HD12	1.35	1.08
19:AS:28:GLU:HB3	19:AS:94:LEU:HD12	1.34	1.08
20:AT:69:LEU:HD23	20:AT:107:LEU:HD21	1.33	1.08
31:Ae:8:LYS:HD3	31:Ae:11:LYS:HZ2	1.08	1.08
34:BA:38:G:H22	34:BA:397:A:C5'	1.66	1.08
34:BA:1242:C:H5''	54:BY:10:ARG:HH12	1.14	1.08
34:BA:1311:G:C4	34:BA:1327:C:N1	1.99	1.08
34:BA:1453:G:H2'	53:BX:36:LEU:HD13	1.34	1.08
34:BA:1504:G:OP1	34:BA:1507:A:H4'	1.53	1.08
37:BH:20:TYR:HA	37:BH:26:CYS:SG	1.92	1.08
37:BH:101:LEU:O	37:BH:104:VAL:HG22	1.49	1.08
40:BK:76:ARG:HB2	40:BK:156:TRP:HE1	1.00	1.08
43:BN:30:SER:HB2	43:BN:81:THR:HA	1.35	1.08
46:BQ:4:ILE:HD13	46:BQ:57:ARG:HG3	1.12	1.08
55:CA:2:ILE:HG22	55:CA:199:VAL:CG2	1.82	1.08
55:CA:5:LEU:HD13	55:CA:268:ALA:CB	1.82	1.08
55:CA:236:GLN:HA	55:CA:247:ARG:CA	1.83	1.08
55:CA:379:GLU:HG2	55:CA:581:THR:HA	1.21	1.08
1:AA:172:C:C5	1:AA:173:G:N7	2.22	1.08
1:AA:1029:A:H2'	1:AA:1030:G:O4'	1.54	1.08
1:AA:1081:U:H5'	10:AJ:125:ARG:HB3	1.28	1.08
1:AA:1613:G:H3'	1:AA:1614:A:H5'	1.32	1.08
1:AA:2018:G:H1'	18:AR:34:LYS:HZ2	1.18	1.08
1:AA:2660:A:N3	55:CA:456:MET:HB3	1.67	1.08
5:AE:51:PHE:O	5:AE:74:PRO:HB3	1.53	1.08
6:AF:119:ARG:NH1	6:AF:119:ARG:HB2	1.69	1.08
7:AG:68:PRO:HB3	7:AG:72:ARG:HH12	1.00	1.08
15:AO:20:LEU:HD21	15:AO:24:GLN:HG3	1.36	1.08
18:AR:105:VAL:O	18:AR:109:LEU:HG	1.53	1.08
24:AX:64:ASP:HB3	24:AX:84:LEU:HD13	1.36	1.08
34:BA:1315:U:C2'	34:BA:1360:A:H2'	1.81	1.08
41:BL:34:GLU:O	41:BL:37:ARG:HB3	1.53	1.08
46:BQ:15:VAL:CB	46:BQ:39:ILE:HD12	1.71	1.08
1:AA:112:U:H3'	1:AA:113:G:C5'	1.84	1.08
1:AA:636:G:H22	13:AM:75:ILE:HD12	0.94	1.08
6:AF:74:ARG:NE	6:AF:75:HIS:H	1.52	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:107:LEU:O	7:AG:111:LEU:HB2	1.53	1.08
12:AL:19:ILE:HG22	12:AL:43:VAL:HA	1.34	1.08
25:AY:52:ILE:HA	25:AY:55:LEU:HD22	1.29	1.08
34:BA:736:C:H5''	51:BV:72:ARG:HH22	1.11	1.08
34:BA:932:C:H3'	40:BK:3:ARG:HG3	1.31	1.08
34:BA:1486:G:O6	34:BA:1487:G:C5	1.95	1.08
37:BH:50:ARG:HG2	37:BH:51:PRO:HD2	1.34	1.08
37:BH:82:ALA:HB3	37:BH:89:THR:HG23	1.34	1.08
44:BO:58:PRO:HB2	44:BO:93:GLN:HB2	1.31	1.08
48:BS:62:GLN:HE21	48:BS:66:LEU:HD21	1.09	1.08
48:BS:71:GLN:HG3	48:BS:75:PRO:HB3	1.32	1.08
51:BV:58:LEU:HB3	51:BV:62:GLU:CB	1.84	1.08
51:BV:74:ARG:HG2	51:BV:81:PHE:HB3	1.25	1.08
55:CA:207:MET:CG	55:CA:226:ILE:CD1	1.79	1.08
55:CA:248:ASN:CG	55:CA:276:ILE:HD11	1.78	1.08
1:AA:1048:A:H2	1:AA:1113:U:O4'	1.35	1.07
1:AA:1083:U:C2	1:AA:1085:A:N7	2.22	1.07
1:AA:1543:A:H3'	1:AA:1544:C:H4'	1.20	1.07
1:AA:1557:C:H2'	1:AA:1558:A:H8	1.15	1.07
1:AA:1566:A:C2	4:AD:215:LEU:HD13	1.88	1.07
1:AA:1772:G:H2'	1:AA:1773:A:H4'	1.36	1.07
1:AA:2254:C:H2'	1:AA:2255:G:H5'	1.29	1.07
1:AA:2791:C:H2'	1:AA:2792:G:C8	1.89	1.07
6:AF:110:LEU:HA	6:AF:183:VAL:HG22	1.35	1.07
10:AJ:99:ILE:HG22	10:AJ:103:GLN:OE1	1.54	1.07
10:AJ:112:MET:HG3	10:AJ:122:ALA:HB3	1.36	1.07
12:AL:116:SER:HB2	34:BA:343:U:H3	0.93	1.07
12:AL:122:LEU:HA	17:AQ:74:ARG:HH12	1.11	1.07
14:AN:22:LYS:HD2	14:AN:99:PRO:HG3	1.35	1.07
17:AQ:52:ILE:HA	17:AQ:66:VAL:HG13	1.35	1.07
20:AT:17:VAL:O	20:AT:20:VAL:HG12	1.53	1.07
23:AW:176:PRO:CB	23:AW:179:ASP:HA	1.82	1.07
34:BA:262:A:H2'	34:BA:263:A:C8	1.87	1.07
34:BA:1151:A:N7	34:BA:1152:A:N7	2.02	1.07
34:BA:1270:C:O2'	34:BA:1313:U:O3'	1.70	1.07
44:BO:32:ILE:HG22	44:BO:40:ILE:HD11	1.36	1.07
53:BX:43:LEU:HD12	53:BX:55:ILE:HD11	1.37	1.07
55:CA:2:ILE:CG1	55:CA:266:ASP:OD2	2.01	1.07
55:CA:80:ASP:OD1	55:CA:364:LEU:HB3	1.55	1.07
55:CA:82:GLY:CA	55:CA:361:ARG:HD2	1.83	1.07
55:CA:206:GLN:HG2	55:CA:227:LYS:CG	1.83	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:446:ARG:CG	55:CA:480:VAL:HG12	1.82	1.07
55:CA:446:ARG:CG	55:CA:480:VAL:HG11	1.79	1.07
1:AA:687:C:H5''	30:Ad:4:THR:HB	1.36	1.07
1:AA:1625:C:H2'	1:AA:1626:G:H4'	1.07	1.07
1:AA:2058:A:H2'	1:AA:2059:A:H8	1.16	1.07
1:AA:2572:A:H4'	1:AA:2573:C:C5'	1.81	1.07
1:AA:2630:G:C4	1:AA:2894:G:C8	2.34	1.07
1:AA:2645:G:H4'	1:AA:2732:G:O2'	1.49	1.07
1:AA:2651:C:N3	1:AA:2670:A:N6	2.00	1.07
2:AB:103:U:H2'	2:AB:104:A:H5'	1.33	1.07
4:AD:6:PHE:O	4:AD:27:THR:HA	1.53	1.07
4:AD:134:ARG:HA	4:AD:168:ARG:HH12	0.94	1.07
9:AI:152:VAL:CA	9:AI:155:GLY:HA3	1.83	1.07
10:AJ:78:ILE:HG23	10:AJ:122:ALA:O	1.54	1.07
11:AK:28:THR:O	11:AK:31:ALA:HB3	1.53	1.07
12:AL:68:GLU:OE2	12:AL:76:ALA:HB3	1.51	1.07
26:AZ:45:GLY:HA2	26:AZ:48:GLU:CD	1.80	1.07
34:BA:815:A:H1'	34:BA:817:C:N4	1.68	1.07
34:BA:959:A:H3'	34:BA:960:U:H5''	1.36	1.07
34:BA:1286:A:H5'	54:BY:25:LYS:HG2	1.35	1.07
34:BA:1311:G:O6	34:BA:1327:C:C5	2.05	1.07
34:BA:1441:G:N2	34:BA:1460:A:H62	1.49	1.07
51:BV:70:ILE:HG22	51:BV:74:ARG:HE	1.18	1.07
55:CA:18:LYS:HB2	57:CA:701:GCP:O2B	1.33	1.07
55:CA:22:VAL:HG11	55:CA:74:ASP:OD1	1.54	1.07
55:CA:41:ARG:HA	55:CA:42:VAL:CG1	1.84	1.07
55:CA:396:LYS:HB2	55:CA:475:VAL:N	1.56	1.07
1:AA:3:U:C2	1:AA:2900:A:C2	2.41	1.07
1:AA:27:G:H1	1:AA:512:G:H2'	1.11	1.07
1:AA:828:U:H2'	1:AA:829:A:H8	1.01	1.07
1:AA:861:A:H62	1:AA:916:G:N2	1.50	1.07
1:AA:1105:U:C2'	1:AA:1107:G:N7	2.16	1.07
1:AA:1668:A:N1	1:AA:1993:U:H1'	1.69	1.07
1:AA:1902:C:C2'	1:AA:1903:G:H5'	1.83	1.07
1:AA:2243:U:H2'	1:AA:2244:U:H6	1.12	1.07
1:AA:2344:U:H5''	29:Ac:38:LYS:HG3	1.14	1.07
1:AA:2576:G:H4'	1:AA:2577:A:H5'	1.07	1.07
5:AE:105:THR:HB	5:AE:166:THR:HB	1.29	1.07
6:AF:157:VAL:HA	6:AF:176:LEU:O	1.54	1.07
8:AH:38:SER:H	8:AH:41:MET:HE2	0.96	1.07
9:AI:54:ALA:HB1	9:AI:83:TYR:O	1.51	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:19:PRO:HG2	10:AJ:36:GLU:HA	1.10	1.07
10:AJ:23:VAL:O	10:AJ:35:MET:HE1	1.48	1.07
10:AJ:34:ILE:HD13	10:AJ:35:MET:H	1.19	1.07
11:AK:15:LEU:HD21	11:AK:137:LYS:CA	1.84	1.07
11:AK:23:LEU:CD1	11:AK:63:THR:H	1.68	1.07
12:AL:122:LEU:N	17:AQ:70:VAL:HG12	1.67	1.07
19:AS:17:GLY:HA3	19:AS:19:LYS:NZ	1.70	1.07
34:BA:558:G:C3'	34:BA:559:A:H5''	1.85	1.07
34:BA:1112:C:H1'	36:BG:179:ARG:NH2	1.67	1.07
35:BF:55:PHE:HA	35:BF:58:ILE:HD12	1.35	1.07
35:BF:222:ILE:O	35:BF:226:ARG:HB2	1.53	1.07
38:BI:31:LEU:HD12	38:BI:129:ILE:HG23	1.28	1.07
40:BK:73:MET:HE3	40:BK:146:GLU:HB2	1.36	1.07
42:BM:55:ALA:HB1	42:BM:58:HIS:CE1	1.90	1.07
43:BN:94:VAL:HG12	43:BN:95:GLU:H	1.13	1.07
46:BQ:20:THR:CG2	46:BQ:26:GLY:HA3	1.65	1.07
46:BQ:91:ARG:HD3	46:BQ:98:VAL:O	1.54	1.07
52:BW:6:LYS:HE3	52:BW:10:PHE:HB2	1.17	1.07
55:CA:25:LEU:O	55:CA:28:GLN:CG	2.02	1.07
55:CA:167:ALA:HB2	57:CA:701:GCP:N1	1.70	1.07
1:AA:142:G:H4'	21:AU:35:THR:HG21	1.30	1.07
1:AA:477:A:H62	1:AA:502:A:N6	1.53	1.07
1:AA:1059:G:C2'	10:AJ:75:SER:H	1.66	1.07
1:AA:1081:U:H5''	10:AJ:125:ARG:HD3	1.12	1.07
1:AA:1105:U:C3'	1:AA:1107:G:N7	2.18	1.07
1:AA:1914:C:N3	1:AA:1915:U:C5	2.21	1.07
1:AA:1995:U:H5''	1:AA:1996:C:H5'	1.31	1.07
1:AA:2507:C:H5''	1:AA:2573:C:H41	1.20	1.07
4:AD:63:ARG:NH1	4:AD:85:ASP:HB2	1.70	1.07
5:AE:50:GLY:C	5:AE:76:ARG:HE	1.62	1.07
6:AF:104:LYS:HG3	6:AF:108:LYS:HZ1	1.17	1.07
7:AG:41:GLN:HE22	7:AG:155:MET:HG3	1.06	1.07
8:AH:104:GLU:O	8:AH:113:VAL:HB	1.52	1.07
10:AJ:104:VAL:HG11	10:AJ:127:ILE:HG21	1.22	1.07
17:AQ:115:ARG:HD3	34:BA:1463:C:P	1.94	1.07
22:AV:2:ARG:HD2	22:AV:3:VAL:H	1.19	1.07
31:Ae:5:LYS:CB	31:Ae:60:LEU:HA	1.83	1.07
34:BA:1277:C:H4'	34:BA:1282:C:H1'	1.36	1.07
40:BK:46:ALA:HA	40:BK:49:ILE:HD13	1.29	1.07
41:BL:22:GLU:HA	41:BL:63:LEU:HD22	1.33	1.07
47:BR:16:PHE:HE1	52:BW:14:HIS:NE2	1.36	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2:G:C8	1:AA:2902:C:N3	2.22	1.07
1:AA:251:A:H2'	1:AA:252:G:O4'	1.55	1.07
1:AA:811:U:O2'	1:AA:1251:C:H1'	1.53	1.07
1:AA:1095:A:O4'	55:CA:416:MET:CE	2.02	1.07
1:AA:1186:G:H3'	1:AA:1187:G:H8	1.12	1.07
1:AA:1203:G:C5	1:AA:1241:A:H8	1.73	1.07
1:AA:1241:A:N3	1:AA:1241:A:C5'	2.18	1.07
1:AA:2058:A:H2'	1:AA:2059:A:C8	1.89	1.07
1:AA:2306:C:N3	7:AG:46:ALA:HB2	1.69	1.07
1:AA:2353:G:H4'	24:AX:32:ARG:HH22	1.16	1.07
1:AA:2788:C:C4	1:AA:2789:C:N4	2.23	1.07
3:AC:32:LEU:HB3	3:AC:220:PRO:HG2	1.35	1.07
4:AD:125:ILE:HG21	4:AD:137:PRO:HG3	1.37	1.07
4:AD:127:VAL:HG13	4:AD:194:GLY:HA3	1.25	1.07
6:AF:164:ARG:HB2	6:AF:177:ALA:HB2	1.30	1.07
9:AI:140:GLY:O	33:AG:136:UNK:C	2.02	1.07
12:AL:59:LYS:HA	12:AL:86:ILE:HD12	1.36	1.07
14:AN:6:ARG:HB2	14:AN:44:ALA:HB1	1.36	1.07
15:AO:83:ILE:HA	15:AO:86:ARG:HG3	1.34	1.07
18:AR:89:GLU:HG2	19:AS:52:VAL:HG23	1.12	1.07
20:AT:56:ALA:O	20:AT:60:ASN:HB3	1.54	1.07
23:AW:55:HIS:HB3	23:AW:101:PRO:HG3	1.36	1.07
34:BA:1116:C:O2	34:BA:1184:G:N1	1.86	1.07
34:BA:1118:C:OP1	42:BM:103:THR:CG2	2.02	1.07
34:BA:1242:C:O2'	34:BA:1303:C:H5''	1.55	1.07
34:BA:1455:G:OP1	53:BX:32:ALA:C	1.96	1.07
37:BH:74:GLN:HA	37:BH:77:ASN:HD22	1.13	1.07
38:BI:78:HIS:HB3	41:BL:107:LEU:HD21	1.31	1.07
46:BQ:27:LYS:HB3	54:BY:7:ARG:HH11	1.15	1.07
46:BQ:91:ARG:CD	46:BQ:98:VAL:O	2.03	1.07
52:BW:15:LEU:HD13	52:BW:71:LEU:HD11	1.26	1.07
55:CA:89:MET:HB3	55:CA:119:TYR:CE2	1.90	1.07
55:CA:309:MET:CA	55:CA:383:SER:OG	2.02	1.07
1:AA:662:G:H4'	13:AM:18:ARG:H	1.11	1.06
1:AA:820:A:H2'	1:AA:821:A:H5'	1.28	1.06
1:AA:1054:A:H2'	1:AA:1055:G:C8	1.90	1.06
1:AA:1204:A:O4'	1:AA:1204:A:OP2	1.73	1.06
1:AA:2025:C:H5'	11:AK:78:TYR:OH	1.54	1.06
17:AQ:100:TYR:HA	17:AQ:102:ILE:HD13	1.35	1.06
21:AU:32:PRO:HA	21:AU:77:LYS:HD2	1.35	1.06
23:AW:98:MET:HG3	23:AW:133:ILE:HG21	1.35	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:50:A:N6	34:BA:361:G:H4'	1.70	1.06
34:BA:1153:C:H2'	34:BA:1154:G:C8	1.90	1.06
34:BA:1220:G:H21	52:BW:55:LYS:HA	1.07	1.06
34:BA:1317:C:O2	34:BA:1318:A:O4'	1.73	1.06
46:BQ:10:PRO:HG2	46:BQ:45:VAL:CG1	1.83	1.06
51:BV:46:GLU:HB3	51:BV:85:LEU:HD13	1.37	1.06
55:CA:163:VAL:CB	55:CA:173:GLY:H	1.68	1.06
55:CA:374:ARG:NE	55:CA:585:ILE:HD11	1.70	1.06
1:AA:1475:G:N1	1:AA:1477:A:N6	2.01	1.06
1:AA:1918:A:C2'	34:BA:1408:A:H5''	1.85	1.06
1:AA:2581:G:H1	1:AA:2610:C:H2'	0.97	1.06
1:AA:2789:C:O2'	1:AA:2791:C:C5'	2.03	1.06
4:AD:5:LYS:HZ3	4:AD:31:LYS:NZ	1.51	1.06
5:AE:109:LYS:HG3	5:AE:191:PRO:HG3	1.36	1.06
17:AQ:64:ARG:HH11	17:AQ:64:ARG:CA	1.67	1.06
18:AR:57:PHE:HA	18:AR:60:LEU:HG	1.34	1.06
19:AS:43:GLU:H	19:AS:44:LYS:NZ	1.53	1.06
21:AU:92:LEU:O	21:AU:95:LEU:HB2	1.56	1.06
23:AW:57:ILE:HG12	23:AW:70:LEU:HB3	1.16	1.06
34:BA:373:A:H1'	34:BA:481:G:H1'	1.35	1.06
34:BA:922:G:H4'	38:BI:20:GLN:HA	1.37	1.06
34:BA:1117:G:C5	34:BA:1184:G:C6	2.43	1.06
34:BA:1309:G:N1	34:BA:1328:C:C4	2.23	1.06
36:BG:38:ARG:HB3	36:BG:38:ARG:HH11	0.94	1.06
1:AA:966:G:H1'	1:AA:2267:A:H62	1.08	1.06
1:AA:1037:G:C2	1:AA:1119:C:C2	2.44	1.06
1:AA:1051:G:H1'	1:AA:2752:C:OP2	0.90	1.06
1:AA:2371:G:H4'	29:Ac:46:HIS:HB3	1.34	1.06
10:AJ:17:ALA:HA	10:AJ:41:PHE:HB3	1.34	1.06
10:AJ:19:PRO:CG	10:AJ:36:GLU:C	2.28	1.06
10:AJ:104:VAL:HG11	10:AJ:127:ILE:CG2	1.86	1.06
14:AN:66:ILE:HG22	14:AN:67:ARG:H	0.91	1.06
19:AS:36:PRO:HA	19:AS:60:GLU:O	1.55	1.06
34:BA:306:G:H2'	34:BA:307:C:H6	1.19	1.06
34:BA:1128:C:O3'	42:BM:16:ARG:NH2	1.89	1.06
42:BM:42:ARG:HB3	42:BM:74:ILE:HD13	1.33	1.06
45:BP:86:ARG:HH12	45:BP:119:LYS:HG3	1.09	1.06
46:BQ:81:LEU:HD23	46:BQ:89:GLY:HA3	1.13	1.06
49:BT:49:LEU:HD11	49:BT:51:VAL:HG22	1.34	1.06
53:BX:33:ILE:HD13	53:BX:63:ILE:HA	1.34	1.06
55:CA:378:PHE:N	55:CA:582:PRO:HG3	1.69	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:828:U:H2'	1:AA:829:A:C8	1.91	1.06
1:AA:1933:G:H21	1:AA:1974:C:H5'	1.18	1.06
1:AA:1959:G:H5'	34:BA:1418:A:H1'	1.13	1.06
1:AA:1995:U:H5''	1:AA:1996:C:C5'	1.85	1.06
1:AA:2659:G:P	8:AH:158:HIS:NE2	2.29	1.06
1:AA:2792:G:N2	1:AA:2803:C:N3	2.03	1.06
2:AB:89:G:H2'	2:AB:89(A):A:C8	1.90	1.06
4:AD:37:LEU:HD22	4:AD:64:ILE:HG22	1.10	1.06
4:AD:146:GLU:HB2	4:AD:154:LYS:H	1.15	1.06
6:AF:6:VAL:HA	6:AF:20:LEU:HD21	1.34	1.06
11:AK:27:ALA:HA	11:AK:30:ILE:HD12	1.31	1.06
12:AL:4:PRO:HG2	12:AL:5:GLN:H	1.14	1.06
14:AN:42:ILE:HD12	14:AN:47:ILE:HG13	1.29	1.06
15:AO:98:LEU:O	15:AO:112:ALA:HB1	1.54	1.06
16:AP:20:ARG:HB3	16:AP:20:ARG:NH1	1.70	1.06
27:Aa:46:GLN:HE22	27:Aa:69:LYS:HE2	1.17	1.06
29:Ac:19:ARG:HH11	29:Ac:19:ARG:HG2	1.12	1.06
34:BA:1269:A:N3	34:BA:1312:G:N3	1.85	1.06
34:BA:1302:U:OP2	46:BQ:21:TYR:HE2	1.36	1.06
36:BG:38:ARG:HB3	36:BG:38:ARG:NH1	1.70	1.06
46:BQ:11:ARG:O	46:BQ:44:ARG:O	1.74	1.06
46:BQ:15:VAL:HB	46:BQ:34:LEU:HD21	1.33	1.06
48:BS:16:ALA:HB1	48:BS:21:ASP:HB3	1.34	1.06
55:CA:55:THR:O	55:CA:56:ILE:HD12	1.56	1.06
55:CA:205:PHE:CE1	55:CA:226:ILE:HD12	1.90	1.06
55:CA:446:ARG:HG2	55:CA:480:VAL:HG11	1.13	1.06
1:AA:323:G:H2'	6:AF:170:LEU:HB2	1.34	1.06
1:AA:729:G:H2'	1:AA:730:C:C4'	1.84	1.06
1:AA:729:G:C2'	1:AA:730:C:H4'	1.84	1.06
1:AA:786:C:O2'	1:AA:787:U:H5'	1.54	1.06
7:AG:60:LEU:HD21	7:AG:90:LEU:HD11	1.38	1.06
12:AL:18:LYS:HB3	12:AL:45:GLU:HG3	1.38	1.06
13:AM:23:PRO:HB2	13:AM:28:GLY:HA2	1.35	1.06
14:AN:83:MET:HE2	14:AN:83:MET:O	1.53	1.06
17:AQ:48:ILE:HD13	17:AQ:50:ILE:HD13	1.35	1.06
17:AQ:111:ARG:NH2	34:BA:1433:A:H5''	1.63	1.06
18:AR:8:VAL:HG23	18:AR:9:VAL:H	1.20	1.06
20:AT:23:LEU:HD11	28:Ab:26:THR:O	1.54	1.06
34:BA:1113:C:H2'	34:BA:1114:C:C6	1.91	1.06
34:BA:1455:G:OP1	53:BX:31:SER:O	1.70	1.06
41:BL:64:LYS:HG2	41:BL:79:VAL:HG21	1.36	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:23:LYS:HE3	45:BP:23:LYS:HA	1.30	1.06
55:CA:14:VAL:H	55:CA:108:GLN:HG3	0.93	1.06
1:AA:364:C:H2'	1:AA:365:C:C5	1.90	1.05
1:AA:443:A:H5'	6:AF:45:ARG:NH2	1.69	1.05
1:AA:896:A:C2	1:AA:897:C:C2	2.42	1.05
1:AA:2681:C:O2'	1:AA:2682:U:H5'	1.56	1.05
1:AA:2790:A:H4'	1:AA:2893:G:N2	1.70	1.05
1:AA:2808:U:C6	1:AA:2892:A:N6	2.24	1.05
5:AE:91:VAL:HG21	5:AE:93:VAL:HG13	1.38	1.05
13:AM:114:ILE:HD13	13:AM:129:ALA:O	1.54	1.05
18:AR:13:LYS:HD2	18:AR:13:LYS:H	1.21	1.05
18:AR:50:ARG:HB2	18:AR:50:ARG:NH1	1.69	1.05
23:AW:100:VAL:HG21	23:AW:137:ILE:HD12	1.33	1.05
33:Ag:290:UNK:HA	33:Ag:342:UNK:O	1.51	1.05
34:BA:781:A:H2'	34:BA:782:A:H5'	1.35	1.05
34:BA:1270:C:O3'	34:BA:1314:C:C5'	2.04	1.05
54:BY:10:ARG:O	54:BY:13:ILE:HG22	1.55	1.05
55:CA:13:HIS:CB	55:CA:108:GLN:HB2	1.84	1.05
55:CA:19:THR:HB	55:CA:22:VAL:HG22	1.32	1.05
55:CA:398:GLU:HA	55:CA:472:TYR:CD1	1.90	1.05
1:AA:308:G:C2	1:AA:309:G:H1'	1.92	1.05
1:AA:684:G:H2'	1:AA:687:C:N4	1.69	1.05
1:AA:898:C:H2'	1:AA:899:A:H4'	1.34	1.05
1:AA:1072:C:H2'	1:AA:1093:G:C6	1.91	1.05
1:AA:1105:U:H4'	1:AA:1106:G:C5'	1.85	1.05
1:AA:2447:G:O3'	1:AA:2499:C:P	2.14	1.05
1:AA:2619:C:H4'	5:AE:152:LYS:HA	1.11	1.05
1:AA:2630:G:C4	1:AA:2894:G:N7	1.74	1.05
1:AA:2649:U:H2'	1:AA:2650:U:C6	1.91	1.05
5:AE:173:VAL:CG1	5:AE:184:VAL:HA	1.86	1.05
6:AF:6:VAL:HA	6:AF:20:LEU:CD2	1.87	1.05
9:AI:140:GLY:C	33:Ag:136:UNK:C	2.29	1.05
11:AK:46:VAL:HG12	11:AK:47:ALA:N	1.68	1.05
12:AL:49:ARG:HH22	34:BA:1423:G:H4'	1.17	1.05
23:AW:10:ARG:HB3	23:AW:36:LYS:HD2	1.36	1.05
34:BA:611:A:N6	34:BA:629:G:H1	1.53	1.05
35:BF:50:GLU:HG3	35:BF:200:ILE:O	1.52	1.05
36:BG:91:LEU:HD21	36:BG:98:ASN:HA	1.37	1.05
36:BG:122:GLU:HA	36:BG:125:GLU:HG2	1.36	1.05
36:BG:182:ILE:HA	36:BG:204:LEU:HG	1.37	1.05
50:BU:43:LEU:HD22	50:BU:44:ALA:N	1.71	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:73:VAL:HA	55:CA:74:ASP:HB3	1.07	1.05
1:AA:1762:A:H3'	1:AA:1762:A:C8	1.92	1.05
1:AA:1788:C:H2'	4:AD:222:ARG:HH21	1.09	1.05
1:AA:2025:C:H2'	1:AA:2026:C:C6	1.90	1.05
10:AJ:19:PRO:HG2	10:AJ:36:GLU:CA	1.84	1.05
10:AJ:78:ILE:HG22	10:AJ:127:ILE:HG12	1.31	1.05
12:AL:96:THR:HG22	12:AL:97:ARG:H	1.21	1.05
16:AP:106:ARG:HH12	16:AP:110:LEU:HB2	1.16	1.05
18:AR:82:GLY:HA2	18:AR:117:GLN:HG2	1.37	1.05
19:AS:65:GLY:O	19:AS:66:ARG:HG2	1.56	1.05
24:AX:37:LEU:CD1	24:AX:59:LEU:HB3	1.86	1.05
26:AZ:9:VAL:HG22	26:AZ:53:LEU:C	1.81	1.05
30:Ad:48:LYS:HG3	30:Ad:49:ARG:N	1.65	1.05
33:Ag:291:UNK:N	33:Ag:342:UNK:CB	2.20	1.05
34:BA:571:U:C3'	34:BA:572:A:H5''	1.87	1.05
34:BA:770:C:H1'	34:BA:900:A:C2	1.91	1.05
34:BA:1109:C:OP1	36:BG:176:HIS:NE2	1.90	1.05
34:BA:1113:C:H2'	34:BA:1114:C:H6	1.06	1.05
34:BA:1221:G:C8	52:BW:54:GLY:O	1.89	1.05
34:BA:1315:U:C1'	34:BA:1360:A:H2'	1.87	1.05
45:BP:24:VAL:HG23	45:BP:97:ARG:HG2	1.38	1.05
55:CA:6:ARG:N	55:CA:69:ARG:HB2	1.69	1.05
55:CA:12:ALA:C	55:CA:109:THR:HG22	1.81	1.05
55:CA:160:PHE:CD2	55:CA:162:ILE:HD12	1.92	1.05
55:CA:205:PHE:CE2	55:CA:231:VAL:HG22	1.91	1.05
55:CA:312:CYS:HB3	55:CA:354:ASP:O	1.42	1.05
55:CA:453:SER:CB	55:CA:570:GLU:OE2	2.03	1.05
1:AA:215:G:H4'	1:AA:216:A:O5'	1.53	1.05
1:AA:1144:G:H2'	1:AA:1145:C:C6	1.92	1.05
1:AA:1182:A:H3'	1:AA:1183:G:H3'	1.39	1.05
1:AA:1912:A:H1'	34:BA:1495:U:H6	0.93	1.05
1:AA:2544:G:H5'	1:AA:2645:G:N7	1.71	1.05
1:AA:2651:C:O2	1:AA:2670:A:N1	1.90	1.05
1:AA:2659:G:C1'	1:AA:2663:G:H22	1.69	1.05
1:AA:2746:U:O4	1:AA:2756:U:C5	2.09	1.05
1:AA:2848:G:H22	1:AA:2867:G:H1'	1.12	1.05
2:AB:89(A):A:H2'	2:AB:90:C:H5'	1.08	1.05
4:AD:133:LEU:HB3	4:AD:136:ILE:HD11	1.38	1.05
8:AH:103:LEU:HD13	8:AH:115:VAL:HG11	1.39	1.05
12:AL:105:GLU:O	12:AL:111:PHE:HZ	1.38	1.05
12:AL:106:LEU:HB2	17:AQ:39:ARG:HH22	1.20	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:42:ILE:HD11	14:AN:46:GLN:HB3	1.38	1.05
16:AP:63:THR:O	16:AP:66:ALA:HB3	1.54	1.05
29:Ac:24:GLU:HG2	31:Ae:37:SER:HB2	1.37	1.05
34:BA:37:U:H6	34:BA:37:U:H3'	1.21	1.05
34:BA:47:C:H4'	34:BA:48:C:H5''	1.30	1.05
34:BA:1004:A:H3'	34:BA:1025:U:N3	1.71	1.05
34:BA:1308:U:H2'	34:BA:1309:G:OP1	1.25	1.05
37:BH:12:CYS:HA	37:BH:19:LEU:HB2	1.36	1.05
52:BW:32:LYS:CA	52:BW:50:ALA:HB3	1.86	1.05
55:CA:165:ALA:HB1	55:CA:171:ILE:HG22	1.11	1.05
55:CA:308:SER:OG	55:CA:357:ARG:HG3	1.54	1.05
55:CA:322:GLU:HG3	55:CA:581:THR:HB	1.10	1.05
55:CA:487:VAL:HG23	55:CA:532:ASP:OD2	1.53	1.05
55:CA:495:LYS:HA	55:CA:517:GLU:CA	1.79	1.05
1:AA:484:C:H2'	1:AA:485:C:C6	1.91	1.05
1:AA:630:G:H5''	31:Ae:46:ARG:HH12	1.20	1.05
1:AA:764:A:H62	1:AA:1776:G:H1'	1.17	1.05
1:AA:1024:G:C5'	1:AA:1025:G:H5''	1.86	1.05
5:AE:171:GLU:HB2	5:AE:185:LYS:HZ2	1.19	1.05
15:AO:32:GLY:HA2	15:AO:116:LEU:CD2	1.87	1.05
16:AP:20:ARG:HB3	16:AP:20:ARG:HH11	0.92	1.05
16:AP:106:ARG:NH2	16:AP:110:LEU:HD22	1.72	1.05
18:AR:83:LEU:O	18:AR:86:ALA:HB3	1.55	1.05
18:AR:98:LEU:HD12	18:AR:105:VAL:HG21	1.34	1.05
23:AW:127:LYS:HD2	23:AW:163:LEU:HA	1.39	1.05
34:BA:947:G:O3'	46:BQ:109:THR:OG1	1.75	1.05
34:BA:962:C:H4'	34:BA:1200:C:H41	1.18	1.05
56:BA:1601:NMY:N2	56:BA:1601:NMY:O16	1.88	1.05
37:BH:133:VAL:HG11	37:BH:138:TYR:HD1	1.21	1.05
45:BP:93:LEU:HD12	45:BP:96:VAL:HG21	1.35	1.05
45:BP:105:TYR:C	55:CA:329:ARG:HD2	1.80	1.05
46:BQ:20:THR:CA	46:BQ:26:GLY:N	2.20	1.05
51:BV:74:ARG:HB3	51:BV:81:PHE:HD2	1.10	1.05
55:CA:2:ILE:CG2	55:CA:199:VAL:CG2	2.35	1.05
55:CA:12:ALA:O	55:CA:109:THR:HG22	1.57	1.05
55:CA:55:THR:O	55:CA:56:ILE:CD1	2.05	1.05
55:CA:236:GLN:HB2	55:CA:246:THR:O	1.55	1.05
55:CA:400:TYR:CZ	55:CA:444:PRO:HB3	1.91	1.05
1:AA:1703:G:HO2'	34:BA:1429:C:H4'	0.99	1.04
1:AA:2461:C:H1'	1:AA:2492:U:C5	1.92	1.04
1:AA:2668:G:H2'	1:AA:2669:G:C8	1.92	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:10:LEU:HD22	10:AJ:27:LEU:HD21	1.07	1.04
14:AN:27:VAL:HG22	14:AN:28:ALA:H	1.21	1.04
19:AS:61:VAL:O	19:AS:99:ILE:HB	1.55	1.04
22:AV:47:LYS:HD3	22:AV:49:VAL:HG21	1.35	1.04
28:Ab:45:VAL:HB	28:Ab:50:GLY:HA2	1.39	1.04
33:Ag:290:UNK:HA	33:Ag:343:UNK:N	1.71	1.04
34:BA:571:U:H3'	34:BA:572:A:H5''	1.05	1.04
34:BA:1412:C:N3	34:BA:1489:G:O6	1.90	1.04
34:BA:1506:U:H5''	34:BA:1507:A:OP2	1.53	1.04
41:BL:10:LEU:O	41:BL:13:ILE:HB	1.56	1.04
44:BO:57:THR:HG23	44:BO:60:ALA:H	1.13	1.04
53:BX:12:ALA:H	53:BX:13:LEU:HD12	1.10	1.04
55:CA:11:ILE:CD1	55:CA:95:VAL:HB	1.87	1.04
55:CA:64:ILE:HD11	55:CA:187:TYR:HB2	1.31	1.04
55:CA:81:PHE:HA	55:CA:365:HIS:HB2	1.37	1.04
55:CA:207:MET:CB	55:CA:226:ILE:CD1	2.33	1.04
55:CA:223:ILE:HA	55:CA:272:ASP:OD2	0.87	1.04
55:CA:253:LYS:CE	55:CA:269:GLU:HB3	1.87	1.04
55:CA:502:PHE:CE1	55:CA:555:VAL:HG22	1.92	1.04
55:CA:502:PHE:CD1	55:CA:555:VAL:CG2	2.40	1.04
1:AA:716:A:H1'	48:BS:44:LYS:HG3	1.33	1.04
1:AA:861:A:N6	1:AA:916:G:H21	1.53	1.04
1:AA:1063:G:N7	1:AA:1064:C:C5	2.24	1.04
1:AA:1906:G:C2	1:AA:1929:G:O6	2.10	1.04
1:AA:2765:A:H2'	1:AA:2765:A:N3	1.72	1.04
2:AB:76:G:OP2	23:AW:11:GLU:HA	1.54	1.04
12:AL:23:ARG:HB2	12:AL:23:ARG:HH11	1.20	1.04
14:AN:83:MET:N	14:AN:83:MET:SD	2.26	1.04
16:AP:23:ARG:NH2	16:AP:42:ASP:HB3	1.72	1.04
17:AQ:18:ASP:HB3	17:AQ:81:PRO:HA	1.35	1.04
19:AS:62:LEU:HD12	19:AS:96:ILE:HB	1.06	1.04
22:AV:52:SER:HB3	22:AV:56:PRO:HB3	1.39	1.04
24:AX:46:LYS:HG3	24:AX:78:TYR:CE2	1.90	1.04
30:Ad:28:ARG:HA	30:Ad:31:LEU:HD12	1.08	1.04
33:Ag:7:UNK:CB	33:Ag:144:UNK:HA	1.87	1.04
34:BA:551:U:H5'	45:BP:119:LYS:NZ	1.71	1.04
34:BA:939:G:H5''	40:BK:102:ARG:HH22	0.91	1.04
34:BA:1117:G:N2	34:BA:1184:G:C1'	2.21	1.04
34:BA:1220:G:C2	52:BW:54:GLY:O	2.10	1.04
34:BA:1225:A:C5'	52:BW:78:ARG:CD	2.19	1.04
38:BI:144:THR:HG22	38:BI:146:ALA:H	1.11	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:65:LEU:HD12	47:BR:56:VAL:HG22	1.36	1.04
46:BQ:8:GLU:HG3	46:BQ:22:ILE:HG13	1.34	1.04
46:BQ:23:TYR:CD2	46:BQ:67:GLU:HA	1.91	1.04
46:BQ:27:LYS:CB	54:BY:7:ARG:NH1	2.20	1.04
46:BQ:100:GLY:HA3	46:BQ:101:GLN:HG2	1.37	1.04
48:BS:62:GLN:HA	48:BS:65:ARG:NH2	1.72	1.04
50:BU:59:ILE:HD11	50:BU:71:PHE:HB3	1.37	1.04
55:CA:11:ILE:HD11	55:CA:95:VAL:HG12	1.39	1.04
55:CA:130:VAL:HG22	55:CA:165:ALA:O	1.57	1.04
55:CA:130:VAL:CG2	55:CA:165:ALA:O	2.05	1.04
55:CA:397:GLN:CB	55:CA:472:TYR:C	2.30	1.04
1:AA:6:A:C6	1:AA:2897:U:N3	2.26	1.04
1:AA:712:G:H2'	1:AA:713:G:C8	1.91	1.04
1:AA:1105:U:C4	1:AA:1107:G:C6	2.46	1.04
1:AA:1288:U:H5''	1:AA:1289:C:OP2	1.57	1.04
2:AB:12:C:C6	24:AX:74:ARG:HB2	1.91	1.04
3:AC:22:ILE:HG21	3:AC:190:ARG:HH12	1.16	1.04
5:AE:13:ARG:HG3	5:AE:22:PRO:CD	1.88	1.04
10:AJ:92:GLY:HA3	10:AJ:93:ARG:HB2	1.38	1.04
11:AK:4:TYR:HB2	18:AR:64:ARG:HH12	1.19	1.04
12:AL:97:ARG:HG3	12:AL:117:LEU:HD21	1.37	1.04
13:AM:46:LYS:H	13:AM:46:LYS:HE3	1.21	1.04
15:AO:46:GLY:O	15:AO:49:ASP:HB3	1.58	1.04
16:AP:73:LEU:O	16:AP:76:LYS:HD3	1.56	1.04
16:AP:106:ARG:NH1	16:AP:110:LEU:HB2	1.73	1.04
20:AT:5:ALA:HB2	20:AT:54:ALA:HB2	1.39	1.04
27:Aa:59:PHE:HA	27:Aa:62:ARG:HD2	1.36	1.04
34:BA:1447:G:N2	34:BA:1459:C:O2	1.91	1.04
38:BI:89:ILE:HG12	38:BI:131:ILE:HD12	1.36	1.04
39:BJ:30:LEU:HA	39:BJ:75:LEU:HD11	1.37	1.04
42:BM:40:LEU:HB3	42:BM:42:ARG:HB2	1.38	1.04
42:BM:97:LYS:HZ1	42:BM:102:LEU:HD13	1.15	1.04
49:BT:18:ARG:HH12	49:BT:35:LYS:CB	1.70	1.04
55:CA:209:ILE:HG23	55:CA:222:GLY:O	1.57	1.04
55:CA:310:PHE:CA	55:CA:356:PHE:O	2.05	1.04
1:AA:326:G:H2'	1:AA:327:G:H8	1.20	1.04
1:AA:578:A:H2'	1:AA:2018:G:H5''	1.38	1.04
1:AA:685:A:H5''	1:AA:686:G:N2	1.70	1.04
1:AA:917:A:H3'	1:AA:917:A:H8	1.18	1.04
1:AA:1036:G:N1	1:AA:1120:G:O6	1.86	1.04
1:AA:1785:A:H5''	1:AA:1982:C:O2'	1.58	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2670:A:C5'	5:AE:206:LYS:NZ	2.21	1.04
3:AC:115:ALA:HB3	3:AC:120:MET:SD	1.97	1.04
5:AE:118:LYS:HA	5:AE:118:LYS:HE2	1.35	1.04
11:AK:69:GLN:NE2	11:AK:87:LEU:HD22	1.73	1.04
14:AN:8:LYS:HE3	14:AN:93:TYR:HB3	1.34	1.04
14:AN:26:TYR:N	14:AN:102:VAL:HB	1.71	1.04
20:AT:25:ARG:NH1	20:AT:74:ALA:H	1.55	1.04
20:AT:25:ARG:HH11	20:AT:74:ALA:N	1.54	1.04
22:AV:12:THR:HG22	22:AV:13:VAL:H	1.21	1.04
24:AX:72:ARG:HB3	24:AX:75:LEU:HD13	1.38	1.04
31:Ae:14:VAL:O	31:Ae:15:LYS:HE2	1.56	1.04
34:BA:82:U:H2'	34:BA:85:U:H5	1.22	1.04
34:BA:886:G:O2'	34:BA:887:G:H5'	1.57	1.04
34:BA:1014:A:C1'	52:BW:34:TRP:CZ3	2.40	1.04
34:BA:1453:G:C2'	53:BX:36:LEU:HD13	1.87	1.04
35:BF:209:ARG:HH12	35:BF:213:LEU:HD12	1.19	1.04
36:BG:33:LEU:HD11	47:BR:54:PRO:HD2	1.38	1.04
43:BN:49:VAL:HG13	47:BR:41:ARG:HD2	1.37	1.04
50:BU:4:LYS:HD2	50:BU:5:VAL:H	1.18	1.04
55:CA:220:VAL:CA	55:CA:274:VAL:HG21	1.86	1.04
55:CA:318:PHE:CE2	55:CA:519:TYR:HD1	1.41	1.04
55:CA:572:ILE:HG21	55:CA:578:VAL:CG2	1.86	1.04
1:AA:602:G:O3'	1:AA:603:A:H4'	1.57	1.04
1:AA:745:G:O2'	1:AA:748:G:H1'	1.58	1.04
1:AA:785:G:H2'	1:AA:786:C:H6	1.22	1.04
1:AA:1042:G:C6	1:AA:1113:U:O4	2.10	1.04
1:AA:2387:U:H1'	24:AX:41:ARG:NH2	1.70	1.04
4:AD:58:HIS:O	4:AD:59:LYS:HG3	1.58	1.04
4:AD:61:LEU:HD22	4:AD:63:ARG:NH2	1.73	1.04
4:AD:68:LYS:HB3	4:AD:70:TRP:HE1	1.21	1.04
10:AJ:64:SER:HB2	10:AJ:65:PHE:CD1	1.92	1.04
12:AL:76:ALA:HA	17:AQ:77:PRO:CD	1.88	1.04
22:AV:22:GLY:CA	22:AV:73:ARG:HH22	1.69	1.04
23:AW:151:HIS:HB3	23:AW:170:THR:H	1.21	1.04
32:Af:10:ILE:HD13	32:Af:32:HIS:CD2	1.93	1.04
34:BA:559:A:H4'	34:BA:560:U:C5'	1.87	1.04
34:BA:946:A:H2'	34:BA:947:G:C8	1.92	1.04
34:BA:986:A:C5'	52:BW:55:LYS:NZ	2.18	1.04
34:BA:1004:A:H8	34:BA:1036:G:O6	1.39	1.04
34:BA:1116:C:O2	34:BA:1184:G:C2	2.11	1.04
34:BA:1417:G:H2'	34:BA:1482:G:N2	1.72	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1499:A:H2'	34:BA:1500:A:H5'	1.38	1.04
35:BF:91:PRO:HG3	35:BF:154:LEU:HB3	1.40	1.04
41:BL:10:LEU:HD11	41:BL:85:ARG:HD3	1.37	1.04
43:BN:8:LEU:HD13	43:BN:94:VAL:HG11	1.36	1.04
44:BO:50:TYR:HB3	44:BO:55:LYS:HG2	1.40	1.04
45:BP:88:GLY:H	45:BP:98:TYR:HA	1.20	1.04
52:BW:15:LEU:HD13	52:BW:71:LEU:CD1	1.80	1.04
55:CA:5:LEU:HB2	55:CA:268:ALA:HB1	1.38	1.04
55:CA:11:ILE:HD11	55:CA:95:VAL:CB	1.87	1.04
55:CA:27:GLN:HG3	55:CA:28:GLN:NE2	1.73	1.04
55:CA:200:ASP:HB2	55:CA:228:ARG:HG2	1.06	1.04
55:CA:230:LYS:HB3	55:CA:265:THR:C	1.82	1.04
1:AA:196:A:N1	1:AA:828:U:H5''	1.72	1.03
1:AA:1024:G:H5''	1:AA:1025:G:H5''	1.06	1.03
1:AA:1155:A:H2'	1:AA:1156:A:H5''	1.39	1.03
1:AA:1657:C:H5'	5:AE:133:LYS:HD3	1.36	1.03
1:AA:1702:G:H2'	1:AA:1703:G:H5''	1.05	1.03
1:AA:1780:A:H3'	1:AA:1781:C:H5'	1.35	1.03
1:AA:2637:U:H5''	5:AE:81:ILE:HD11	1.40	1.03
4:AD:166:GLN:O	4:AD:174:ILE:HB	1.58	1.03
7:AG:163:ALA:HB1	7:AG:169:ALA:HA	1.34	1.03
10:AJ:12:LEU:HG	10:AJ:57:ILE:HG23	1.39	1.03
10:AJ:17:ALA:HB2	10:AJ:41:PHE:C	1.83	1.03
13:AM:107:LYS:HE2	13:AM:110:TYR:HD2	1.20	1.03
17:AQ:10:VAL:O	17:AQ:13:ARG:HB3	1.58	1.03
18:AR:53:ARG:HA	18:AR:56:ASP:OD2	1.56	1.03
18:AR:64:ARG:O	18:AR:67:ALA:HB3	1.58	1.03
18:AR:93:LYS:HG2	19:AS:10:LYS:HZ1	1.14	1.03
23:AW:145:GLU:N	23:AW:174:VAL:HG21	1.71	1.03
30:Ad:21:ARG:HG2	30:Ad:31:LEU:HD21	1.35	1.03
32:Af:2:LYS:CG	32:Af:35:ARG:HB2	1.87	1.03
34:BA:952:U:H5'	34:BA:972:C:H41	1.23	1.03
34:BA:1453:G:H2'	53:BX:36:LEU:CD1	1.87	1.03
37:BH:18:LYS:HG2	37:BH:33:MET:HB3	1.40	1.03
38:BI:84:PHE:CZ	38:BI:133:TYR:HB3	1.93	1.03
40:BK:35:LYS:NZ	40:BK:38:LEU:HD22	1.73	1.03
42:BM:19:LEU:HD21	42:BM:59:PHE:HB3	1.07	1.03
51:BV:62:GLU:O	51:BV:66:LEU:HG	1.56	1.03
1:AA:104:U:H2'	1:AA:105:C:O4'	1.57	1.03
1:AA:242:G:H3'	31:Ae:4:MET:CG	1.87	1.03
1:AA:853:G:H2'	1:AA:854:G:H8	1.23	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:903:C:H2'	1:AA:904:C:C6	1.92	1.03
1:AA:1700:A:H2'	1:AA:1701:A:H5'	1.40	1.03
1:AA:1702:G:H2'	1:AA:1703:G:C5'	1.88	1.03
1:AA:1902:C:H2'	1:AA:1903:G:H5'	1.06	1.03
1:AA:1909:C:O2	1:AA:1922:G:N2	1.90	1.03
1:AA:1914:C:C2	1:AA:1915:U:C5	2.44	1.03
1:AA:1965:C:H3'	1:AA:1966:A:C8	1.93	1.03
1:AA:1996:C:H6	1:AA:1996:C:H5''	1.20	1.03
1:AA:2296:U:H1'	1:AA:2335:A:H61	1.15	1.03
1:AA:2431:U:C2'	1:AA:2432:A:H5''	1.87	1.03
1:AA:2709:G:H2'	1:AA:2710:C:H5'	1.34	1.03
4:AD:77:ALA:HB1	4:AD:95:LEU:HD21	1.38	1.03
5:AE:8:LYS:HD3	5:AE:9:VAL:HG22	1.36	1.03
5:AE:127:ASP:HB2	5:AE:135:HIS:HA	1.35	1.03
8:AH:73:ALA:O	8:AH:76:VAL:HG22	1.58	1.03
11:AK:53:VAL:HA	11:AK:121:LYS:O	1.58	1.03
11:AK:66:LYS:HA	11:AK:87:LEU:HD11	1.36	1.03
12:AL:76:ALA:HA	17:AQ:77:PRO:HD2	1.39	1.03
13:AM:75:ILE:HG22	13:AM:115:LEU:HD11	1.35	1.03
18:AR:70:ARG:HG2	18:AR:75:ASN:HA	1.35	1.03
18:AR:76:TYR:CD2	18:AR:80:ILE:HD11	1.92	1.03
20:AT:19:LEU:HD22	28:Ab:25:LEU:HB3	1.41	1.03
26:AZ:29:ARG:HB2	26:AZ:30:ARG:NH1	1.73	1.03
34:BA:132:C:H5'	34:BA:262:A:H1'	1.37	1.03
34:BA:958:A:C6	52:BW:56:GLN:NE2	2.26	1.03
34:BA:1311:G:C5	34:BA:1327:C:C5	2.29	1.03
43:BN:43:ARG:O	43:BN:66:ARG:HB2	1.58	1.03
46:BQ:15:VAL:N	46:BQ:34:LEU:HD21	1.73	1.03
55:CA:101:ALA:C	55:CA:135:ALA:HB1	1.84	1.03
55:CA:397:GLN:HB3	55:CA:472:TYR:HB3	1.04	1.03
1:AA:630:G:H5''	31:Ae:46:ARG:NH1	1.74	1.03
1:AA:956:G:O6	1:AA:958:U:H1'	1.57	1.03
1:AA:1046:A:N6	9:AI:9:LEU:N	2.06	1.03
1:AA:1203:G:C6	1:AA:1240:U:N3	2.27	1.03
1:AA:2447:G:O3'	1:AA:2499:C:OP2	1.75	1.03
1:AA:2582:G:N2	1:AA:2583:G:H1'	1.73	1.03
1:AA:2652:C:C4	1:AA:2669:G:C2	2.47	1.03
4:AD:76:PRO:O	4:AD:98:VAL:HG23	1.57	1.03
4:AD:91:ARG:HH12	4:AD:198:ASN:HB2	1.23	1.03
4:AD:177:LEU:HB2	4:AD:178:PRO:HD2	1.40	1.03
5:AE:105:THR:HB	5:AE:166:THR:CB	1.88	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:145:PRO:CB	33:Ag:133:UNK:CB	2.36	1.03
10:AJ:23:VAL:CG2	10:AJ:41:PHE:CE2	2.15	1.03
14:AN:42:ILE:HG22	14:AN:95:ALA:HB3	1.39	1.03
15:AO:13:HIS:HB3	15:AO:16:HIS:CD2	1.94	1.03
18:AR:112:ARG:NH1	19:AS:50:PRO:HG3	1.72	1.03
23:AW:56:VAL:HG21	23:AW:135:GLU:HA	1.41	1.03
23:AW:144:LEU:HB3	23:AW:174:VAL:HG11	1.33	1.03
29:Ac:48:VAL:HG13	29:Ac:49:HIS:H	1.20	1.03
34:BA:22:G:H2'	34:BA:23:C:C6	1.93	1.03
34:BA:570:G:H1	34:BA:866:C:N4	1.55	1.03
34:BA:792:A:H2'	34:BA:794:A:H62	1.18	1.03
34:BA:978:A:N6	34:BA:1361:G:H22	1.54	1.03
34:BA:1415:G:C6	34:BA:1486:G:C6	2.46	1.03
34:BA:1461:G:H2'	34:BA:1462:G:H8	1.23	1.03
49:BT:20:VAL:HG22	49:BT:35:LYS:HA	1.37	1.03
55:CA:176:HIS:HB3	55:CA:177:GLU:HB2	1.40	1.03
55:CA:322:GLU:CD	55:CA:379:GLU:OE1	2.01	1.03
55:CA:488:LEU:HG	55:CA:525:GLY:C	1.83	1.03
1:AA:445:C:H3'	18:AR:3:ARG:HE	1.23	1.03
1:AA:1046:A:H61	9:AI:9:LEU:H	1.06	1.03
1:AA:1646:C:H3'	1:AA:1647:G:C5'	1.88	1.03
1:AA:1803:A:H4'	4:AD:257:LEU:HD13	1.41	1.03
3:AC:87:GLU:HG3	3:AC:94:VAL:HG21	1.36	1.03
7:AG:49:ASP:HA	7:AG:53:LEU:HD22	1.39	1.03
10:AJ:11:GLN:HA	10:AJ:56:GLU:HB2	1.41	1.03
11:AK:43:THR:CB	11:AK:44:PRO:HD2	1.88	1.03
12:AL:64:ARG:NH2	12:AL:67:LYS:H	1.55	1.03
28:Ab:39:MET:HE1	28:Ab:41:PRO:HD3	1.41	1.03
33:Ag:290:UNK:CA	33:Ag:343:UNK:CA	2.36	1.03
34:BA:263:A:C2'	34:BA:264:U:H5''	1.89	1.03
34:BA:1117:G:C4	34:BA:1184:G:C2	2.47	1.03
37:BH:93:PHE:HA	37:BH:96:LEU:HD12	1.39	1.03
42:BM:55:ALA:HB3	42:BM:58:HIS:CE1	1.94	1.03
55:CA:26:LEU:HB3	55:CA:29:SER:O	1.58	1.03
55:CA:395:ARG:HG3	55:CA:474:ASP:HB3	1.07	1.03
55:CA:427:LYS:HG2	55:CA:442:VAL:HG23	1.05	1.03
55:CA:512:LEU:HD13	55:CA:518:VAL:CG1	1.89	1.03
1:AA:29:U:H2'	1:AA:30:G:N7	1.72	1.03
1:AA:388:G:H2'	1:AA:390:A:N7	1.73	1.03
1:AA:901:A:C6	1:AA:902:C:N3	2.26	1.03
1:AA:957:A:OP2	14:AN:77:LYS:HD3	1.59	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1105:U:C4	1:AA:1107:G:O6	2.11	1.03
1:AA:1324:G:H3'	1:AA:1325:G:H4'	1.35	1.03
1:AA:1718:G:H2'	1:AA:1725:G:H8	1.15	1.03
1:AA:1907:G:N1	1:AA:1924:C:N4	1.68	1.03
1:AA:2788:C:N4	1:AA:2789:C:H41	1.47	1.03
6:AF:34:TRP:HB3	6:AF:38:ARG:CZ	1.88	1.03
10:AJ:12:LEU:HD13	10:AJ:41:PHE:CE2	1.93	1.03
12:AL:49:ARG:NH2	34:BA:1423:G:H4'	1.73	1.03
13:AM:72:PRO:HB2	13:AM:111:ARG:HB3	1.41	1.03
26:AZ:26:LEU:HD23	26:AZ:28:LEU:HD11	1.40	1.03
33:Ag:7:UNK:C	33:Ag:147:UNK:C	2.35	1.03
34:BA:1405:G:H21	34:BA:1517:G:N2	1.57	1.03
41:BL:95:VAL:HG22	41:BL:133:LEU:HD21	1.38	1.03
55:CA:231:VAL:CG1	55:CA:273:ILE:HD13	1.89	1.03
1:AA:112:U:C3'	1:AA:113:G:H5''	1.89	1.02
1:AA:781:A:H1'	4:AD:222:ARG:NH1	1.74	1.02
1:AA:1075:C:C2'	10:AJ:90:LYS:HD3	1.88	1.02
1:AA:1252:G:C8	1:AA:1253:A:H1'	1.93	1.02
2:AB:33:G:H2'	2:AB:34:U:C6	1.94	1.02
4:AD:23:GLU:HB2	4:AD:205:VAL:HG12	1.35	1.02
4:AD:148:GLU:HB2	4:AD:154:LYS:HZ2	1.24	1.02
9:AI:140:GLY:HA2	33:Ag:137:UNK:C	1.89	1.02
12:AL:3:GLN:HG2	12:AL:6:THR:HB	1.39	1.02
27:Aa:6:HIS:NE2	27:Aa:55:ARG:HD3	1.74	1.02
34:BA:754:C:H5'	34:BA:755:G:C8	1.93	1.02
34:BA:927:G:C5'	34:BA:1503:A:H62	1.72	1.02
34:BA:1225:A:H5'	52:BW:78:ARG:HD3	1.38	1.02
34:BA:1316:G:C4'	34:BA:1360:A:C6	2.41	1.02
34:BA:1428:A:H2'	34:BA:1429:C:C6	1.94	1.02
35:BF:178:ARG:NE	35:BF:196:LEU:HD13	1.73	1.02
39:BJ:3:ARG:HA	39:BJ:67:MET:HE1	1.03	1.02
41:BL:12:ARG:HH11	41:BL:27:PRO:HD3	1.21	1.02
41:BL:14:ARG:NH1	41:BL:14:ARG:HB3	1.73	1.02
43:BN:23:ILE:HG23	43:BN:85:LEU:HD23	1.37	1.02
46:BQ:19:LEU:C	46:BQ:25:ILE:CG2	2.31	1.02
47:BR:45:ARG:HH11	47:BR:45:ARG:CB	1.71	1.02
55:CA:318:PHE:CD2	55:CA:519:TYR:CE1	2.47	1.02
55:CA:377:GLY:HA2	55:CA:582:PRO:HG2	1.41	1.02
1:AA:183:C:H1'	1:AA:433:C:H1'	1.40	1.02
1:AA:371:A:H5''	1:AA:423:A:N7	1.73	1.02
1:AA:1043:C:O4'	1:AA:1112:G:N2	1.91	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1059:G:H21	10:AJ:130:SER:CA	1.57	1.02
1:AA:2122:U:H2'	1:AA:2123:G:H5''	1.40	1.02
1:AA:2652:C:C4	1:AA:2669:G:N2	2.27	1.02
5:AE:102:VAL:HG13	5:AE:170:LEU:HG	1.41	1.02
10:AJ:27:LEU:HD22	10:AJ:58:THR:CA	1.90	1.02
13:AM:38:GLN:C	13:AM:40:SER:H	1.62	1.02
15:AO:38:VAL:HB	15:AO:39:PRO:HD3	1.41	1.02
19:AS:6:LYS:HD3	19:AS:10:LYS:HG2	1.39	1.02
19:AS:11:GLN:HE22	19:AS:24:LYS:NZ	1.58	1.02
20:AT:78:GLU:CD	20:AT:99:ARG:HB3	1.83	1.02
33:Ag:290:UNK:CA	33:Ag:343:UNK:HA	1.88	1.02
34:BA:1220:G:OP1	52:BW:34:TRP:HB3	1.56	1.02
34:BA:1309:G:N2	34:BA:1328:C:N1	2.05	1.02
34:BA:1318:A:C3'	52:BW:37:ARG:CB	2.38	1.02
35:BF:163:PHE:HA	35:BF:185:ILE:O	1.59	1.02
36:BG:59:ARG:NE	36:BG:64:VAL:HA	1.74	1.02
37:BH:107:ARG:HH11	37:BH:107:ARG:HA	1.18	1.02
45:BP:57:LYS:HG2	45:BP:67:THR:HG22	1.41	1.02
50:BU:89:LEU:O	50:BU:92:ARG:HB3	1.60	1.02
55:CA:40:GLU:CB	55:CA:41:ARG:HB2	1.88	1.02
55:CA:325:PHE:CD1	55:CA:378:PHE:CZ	2.40	1.02
1:AA:6:A:H2	1:AA:2897:U:H2'	1.22	1.02
1:AA:52:A:H2'	1:AA:53:A:H8	1.21	1.02
1:AA:152:G:O2'	1:AA:153:C:C5'	2.07	1.02
1:AA:424:G:O2'	1:AA:425:G:H5'	1.59	1.02
1:AA:785:G:H2'	1:AA:786:C:C6	1.93	1.02
1:AA:977:G:H2'	1:AA:978:G:O4'	1.55	1.02
1:AA:1058:G:C2'	10:AJ:116:ASN:HD22	1.72	1.02
1:AA:1105:U:C4'	1:AA:1106:G:O5'	2.07	1.02
1:AA:2584:U:H2'	1:AA:2585:U:C5	1.95	1.02
1:AA:2808:U:H2'	1:AA:2809:A:H5''	1.35	1.02
1:AA:2832:U:H1'	1:AA:2834:G:N2	1.73	1.02
14:AN:66:ILE:HG22	14:AN:67:ARG:N	1.69	1.02
20:AT:36:LEU:HD23	20:AT:51:LEU:HD21	1.39	1.02
22:AV:22:GLY:HA3	22:AV:73:ARG:HH22	0.85	1.02
26:AZ:3:ARG:HH12	26:AZ:59:VAL:HB	1.17	1.02
32:Af:25:VAL:HB	32:Af:34:GLN:HB2	1.40	1.02
33:Ag:290:UNK:HA	33:Ag:343:UNK:HA	1.26	1.02
34:BA:279:A:N1	50:BU:98:LEU:HG	1.75	1.02
34:BA:355:C:H1'	34:BA:388:G:H2'	1.40	1.02
34:BA:1253:G:H1	34:BA:1285:A:N6	1.55	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:132:ARG:HH11	37:BH:132:ARG:HG2	1.21	1.02
38:BI:48:ALA:HB3	38:BI:53:LEU:HB3	1.40	1.02
41:BL:29:SER:HB2	41:BL:32:LYS:HE2	1.36	1.02
43:BN:25:GLU:HA	43:BN:28:ARG:HD2	1.41	1.02
45:BP:37:CYS:CA	45:BP:58:VAL:HG22	1.88	1.02
46:BQ:12:ASN:C	46:BQ:44:ARG:O	2.01	1.02
50:BU:88:TYR:N	50:BU:91:ARG:HH21	1.56	1.02
1:AA:627:A:H2'	1:AA:628:G:O4'	1.59	1.02
1:AA:783:A:H2'	1:AA:784:A:H4'	1.34	1.02
1:AA:976:C:H5'	1:AA:1156:A:N6	1.75	1.02
1:AA:1342:A:C2'	1:AA:1345:C:H41	1.73	1.02
1:AA:2210:G:C6	4:AD:150:LYS:HA	1.94	1.02
1:AA:2472:G:OP1	55:CA:529:ARG:HG2	1.59	1.02
1:AA:2792:G:N3	1:AA:2805:G:N1	2.06	1.02
2:AB:14:U:O2'	2:AB:107:U:H1'	1.59	1.02
12:AL:97:ARG:HH21	12:AL:98:VAL:C	1.68	1.02
23:AW:152:ALA:HA	23:AW:155:LEU:HD13	1.38	1.02
25:AY:38:GLN:H	25:AY:41:GLN:NE2	1.56	1.02
26:AZ:4:LEU:O	26:AZ:37:LEU:HB3	1.60	1.02
27:Aa:5:ILE:HG23	27:Aa:57:GLU:HB2	1.42	1.02
27:Aa:57:GLU:C	27:Aa:61:ARG:HG3	1.85	1.02
27:Aa:65:ASP:O	27:Aa:69:LYS:HG3	1.59	1.02
29:Ac:16:CYS:CB	29:Ac:49:HIS:HA	1.90	1.02
34:BA:232:G:H2'	34:BA:233:C:C6	1.94	1.02
34:BA:765:G:O2'	34:BA:766:A:H5'	1.56	1.02
34:BA:1064:G:H1'	34:BA:1066:C:C4	1.94	1.02
34:BA:1312:G:C4	34:BA:1326:C:C2	2.48	1.02
34:BA:1455:G:H5''	53:BX:31:SER:OG	1.57	1.02
45:BP:28:LYS:HZ2	45:BP:33:ARG:HH22	1.08	1.02
46:BQ:36:LYS:CG	46:BQ:56:LEU:CD2	2.37	1.02
46:BQ:92:HIS:CE1	46:BQ:110:ARG:NH1	2.25	1.02
55:CA:164:TYR:CE1	55:CA:175:ASP:OD1	2.13	1.02
55:CA:252:GLY:HA2	55:CA:261:GLU:HA	1.04	1.02
1:AA:270(O):U:H5''	1:AA:270(P):C:H5	1.23	1.02
1:AA:325:G:H2'	1:AA:326:G:H8	1.24	1.02
1:AA:716:A:C1'	48:BS:44:LYS:HD3	1.88	1.02
1:AA:979:G:H3'	1:AA:980:A:H5''	1.39	1.02
1:AA:1035:U:O3'	8:AH:59:ARG:CZ	2.07	1.02
1:AA:1046:A:C4	9:AI:11:ALA:HB2	1.94	1.02
1:AA:1824:G:O2'	4:AD:246:PRO:HB3	1.59	1.02
1:AA:1841:U:H2'	1:AA:1842:G:H8	1.22	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1903:G:H2'	1:AA:1904:G:C8	1.95	1.02
1:AA:2243:U:H2'	1:AA:2244:U:C6	1.95	1.02
1:AA:2345:G:N7	1:AA:2371:G:N2	2.08	1.02
4:AD:76:PRO:HG2	4:AD:98:VAL:HG21	1.39	1.02
4:AD:169:GLU:HB3	4:AD:184:LYS:HZ1	1.20	1.02
12:AL:9:GLU:HB2	12:AL:82:ASN:HB3	1.39	1.02
14:AN:41:TRP:HA	14:AN:95:ALA:O	1.59	1.02
16:AP:95:HIS:N	16:AP:99:LYS:HB2	1.74	1.02
21:AU:12:VAL:HB	21:AU:27:THR:O	1.60	1.02
23:AW:151:HIS:HA	23:AW:171:ILE:HG22	1.38	1.02
30:Ad:48:LYS:CG	30:Ad:49:ARG:H	1.71	1.02
34:BA:389:A:H2'	34:BA:390:C:H5'	1.37	1.02
34:BA:1116:C:C2	34:BA:1184:G:N1	2.27	1.02
34:BA:1117:G:C2	34:BA:1184:G:N9	2.26	1.02
34:BA:1455:G:C3'	53:BX:31:SER:HG	1.70	1.02
35:BF:42:ILE:HD11	35:BF:202:PRO:HB2	1.38	1.02
45:BP:28:LYS:NZ	45:BP:33:ARG:HH22	1.56	1.02
46:BQ:4:ILE:HD11	46:BQ:57:ARG:HG3	1.42	1.02
47:BR:29:ARG:HB3	47:BR:29:ARG:HH11	1.22	1.02
55:CA:6:ARG:CB	55:CA:68:TYR:O	2.07	1.02
55:CA:231:VAL:HG11	55:CA:251:VAL:HG11	1.41	1.02
55:CA:249:ALA:HB3	55:CA:275:ALA:CB	1.89	1.02
1:AA:663:G:O2'	1:AA:940:G:H4'	1.61	1.01
1:AA:1203:G:O6	1:AA:1240:U:O2	1.78	1.01
1:AA:2327:A:H2'	1:AA:2328:A:C8	1.93	1.01
1:AA:2661:G:H5''	55:CA:14:VAL:CG1	1.90	1.01
1:AA:2674:G:H4'	12:AL:26:LYS:HZ3	1.25	1.01
3:AC:153:ILE:HA	3:AC:156:ILE:HD12	1.40	1.01
5:AE:49:LEU:HD22	5:AE:76:ARG:C	1.85	1.01
7:AG:47:LYS:HD3	7:AG:72:ARG:C	1.84	1.01
8:AH:84:SER:HA	8:AH:134:SER:HA	1.42	1.01
8:AH:145:ALA:O	8:AH:148:ILE:HG22	1.60	1.01
29:Ac:11:LEU:HD13	31:Ae:35:GLN:NE2	1.75	1.01
34:BA:716:A:H1'	44:BO:118:GLY:HA2	1.37	1.01
34:BA:973:G:N2	34:BA:974:A:N6	2.09	1.01
34:BA:1226:C:N4	46:BQ:104:ARG:CG	2.18	1.01
34:BA:1316:G:O4'	34:BA:1360:A:C2	2.13	1.01
35:BF:161:ALA:HA	35:BF:183:PRO:HB2	1.42	1.01
36:BG:33:LEU:HD11	47:BR:53:LEU:HA	1.38	1.01
37:BH:53:ASP:O	37:BH:56:VAL:HB	1.60	1.01
43:BN:34:VAL:HG12	43:BN:35:SER:H	1.23	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:374:ARG:O	55:CA:582:PRO:CA	2.08	1.01
1:AA:241:A:H1'	1:AA:243:U:H1'	1.41	1.01
1:AA:289:A:H2'	1:AA:351:G:H1	1.23	1.01
1:AA:1438:U:H2'	1:AA:1439:A:H5'	1.42	1.01
1:AA:2780:G:H22	11:AK:97:ARG:NH1	1.59	1.01
1:AA:2841:C:H2'	1:AA:2842:G:H8	1.22	1.01
4:AD:120:GLY:O	4:AD:131:LEU:HD11	1.60	1.01
4:AD:244:ARG:H	4:AD:245:PRO:HD3	1.16	1.01
5:AE:179:GLU:O	5:AE:181:LEU:HG	1.59	1.01
6:AF:36:VAL:HG21	6:AF:183:VAL:HG21	1.36	1.01
11:AK:14:VAL:HG13	11:AK:138:LEU:HB3	1.40	1.01
18:AR:55:ARG:HG2	18:AR:55:ARG:HH11	1.23	1.01
23:AW:165:VAL:HG12	23:AW:166:SER:H	1.18	1.01
25:AY:2:ARG:HA	25:AY:5:LEU:HD13	1.39	1.01
27:Aa:5:ILE:HG21	27:Aa:60:GLN:OE1	1.59	1.01
29:Ac:12:GLU:HG2	29:Ac:13:CYS:H	1.22	1.01
34:BA:1106:G:H2'	34:BA:1107:C:C6	1.96	1.01
34:BA:1119:C:H2'	34:BA:1120:G:C8	1.95	1.01
34:BA:1310:G:O6	34:BA:1327:C:C4	2.13	1.01
34:BA:1312:G:C2	34:BA:1326:C:C6	2.48	1.01
35:BF:84:GLU:HG2	35:BF:234:PRO:HD2	1.42	1.01
35:BF:187:LEU:HA	35:BF:201:ILE:O	1.59	1.01
37:BH:60:GLU:OE2	37:BH:199:ASN:HB3	1.61	1.01
37:BH:100:ARG:O	37:BH:104:VAL:HG13	1.61	1.01
41:BL:98:LYS:H	41:BL:98:LYS:HZ2	1.04	1.01
42:BM:9:ARG:HD2	42:BM:14:VAL:HG22	1.39	1.01
55:CA:57:LEU:HB2	55:CA:254:VAL:CG1	1.89	1.01
55:CA:69:ARG:HG3	55:CA:71:ASN:HB2	1.42	1.01
55:CA:153:ALA:H	55:CA:154:THR:HA	1.25	1.01
55:CA:205:PHE:C	55:CA:228:ARG:O	2.02	1.01
55:CA:401:GLU:O	55:CA:467:SER:HB3	1.61	1.01
55:CA:500:ALA:HB2	55:CA:537:CYS:CB	1.90	1.01
1:AA:248:G:N3	1:AA:2431:U:H5'	1.75	1.01
1:AA:270(C):C:H2'	1:AA:270(D):C:C6	1.94	1.01
1:AA:296:C:H2'	1:AA:297:C:H6	1.19	1.01
1:AA:1081:U:C4'	10:AJ:125:ARG:CB	2.37	1.01
1:AA:2115:G:H2'	1:AA:2117:A:N7	1.75	1.01
4:AD:39:LYS:HA	4:AD:62:TYR:HB2	1.41	1.01
4:AD:216:GLY:O	4:AD:217:ARG:HB3	1.58	1.01
5:AE:30:PRO:HA	5:AE:49:LEU:O	1.59	1.01
6:AF:153:SER:O	6:AF:190:GLU:HB2	1.61	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:140:GLY:HA3	33:Ag:136:UNK:C	1.89	1.01
11:AK:26:LEU:HG	11:AK:30:ILE:HD11	1.38	1.01
16:AP:89:ARG:HG3	16:AP:90:GLY:H	1.24	1.01
26:AZ:4:LEU:HD21	26:AZ:56:VAL:HG23	1.42	1.01
27:Aa:65:ASP:HA	27:Aa:68:ARG:NH2	1.76	1.01
29:Ac:16:CYS:SG	29:Ac:19:ARG:CZ	2.49	1.01
34:BA:1005:A:H5''	34:BA:1006:C:C5	1.95	1.01
34:BA:1226:C:C1'	52:BW:80:TYR:CG	2.20	1.01
34:BA:1236:A:H4'	34:BA:1304:G:H4'	1.38	1.01
34:BA:1454:G:OP2	53:BX:39:LYS:HD3	1.57	1.01
50:BU:62:SER:OG	50:BU:72:ARG:HG2	1.61	1.01
52:BW:9:VAL:HG21	52:BW:42:PRO:HB2	1.41	1.01
55:CA:73:VAL:HA	55:CA:74:ASP:CB	1.87	1.01
55:CA:245:LYS:NZ	55:CA:291:THR:CB	2.23	1.01
55:CA:488:LEU:HD12	55:CA:525:GLY:CA	1.89	1.01
1:AA:6:A:C2	1:AA:2898:U:N1	2.28	1.01
1:AA:479:A:H1'	1:AA:480:A:N7	1.76	1.01
1:AA:586:A:C5'	6:AF:89:VAL:HG21	1.90	1.01
1:AA:592:G:O2'	31:Ae:2:PRO:HA	1.60	1.01
1:AA:1053:C:H2'	1:AA:1054:A:C8	1.94	1.01
1:AA:1061:U:H2'	10:AJ:52:ILE:HD13	1.42	1.01
1:AA:1105:U:H3'	1:AA:1107:G:N7	1.75	1.01
1:AA:1158:C:H4'	26:AZ:32:GLN:HE21	1.23	1.01
1:AA:1802:A:H61	1:AA:1822:G:H1'	1.24	1.01
1:AA:1902:C:C6	1:AA:1903:G:C8	2.48	1.01
1:AA:2651:C:C2	1:AA:2670:A:C6	2.48	1.01
4:AD:136:ILE:HB	4:AD:168:ARG:NH2	1.75	1.01
5:AE:117:MET:HG2	5:AE:136:ARG:HE	1.25	1.01
6:AF:183:VAL:HA	6:AF:186:ILE:HD12	1.43	1.01
9:AI:52:PHE:CA	9:AI:86:PRO:CB	2.37	1.01
17:AQ:39:ARG:CD	34:BA:345:C:OP2	2.09	1.01
18:AR:107:ALA:O	18:AR:110:VAL:HB	1.60	1.01
23:AW:30:ASN:HB2	23:AW:90:VAL:HG23	1.40	1.01
29:Ac:14:THR:HB	29:Ac:51:GLU:HA	1.43	1.01
34:BA:684:A:H4'	44:BO:12:ARG:NH2	1.75	1.01
34:BA:1318:A:H2'	52:BW:37:ARG:N	1.74	1.01
34:BA:1327:C:H5''	54:BY:20:LYS:HD3	1.41	1.01
34:BA:1499:A:C8	34:BA:1500:A:N7	2.29	1.01
35:BF:95:GLN:HG3	35:BF:148:TYR:HB3	1.39	1.01
35:BF:155:LEU:HB2	35:BF:159:PRO:HG3	1.39	1.01
37:BH:162:LEU:HD13	37:BH:181:MET:HG2	1.42	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:38:ILE:HG13	41:BL:118:VAL:HG11	1.43	1.01
55:CA:89:MET:SD	55:CA:116:ALA:CB	2.47	1.01
55:CA:383:SER:HB3	55:CA:384:ARG:HA	1.42	1.01
55:CA:406:ASP:HA	55:CA:407:VAL:CG2	1.91	1.01
55:CA:407:VAL:O	55:CA:436:ARG:HB3	1.57	1.01
1:AA:477:A:N6	1:AA:502:A:H61	1.58	1.01
1:AA:549:G:H2'	1:AA:550:G:H8	1.24	1.01
1:AA:747:U:H2'	1:AA:2613:U:O4	1.61	1.01
1:AA:988:A:N6	26:AZ:13:ILE:HG13	1.75	1.01
1:AA:1475:G:H21	1:AA:1476:C:H5''	1.23	1.01
1:AA:1959:G:C4'	34:BA:1418:A:C1'	1.91	1.01
1:AA:2349:G:H3'	1:AA:2350:C:H5''	1.39	1.01
1:AA:2491:U:H3'	1:AA:2491:U:H6	0.98	1.01
1:AA:2808:U:C2'	1:AA:2809:A:H5''	1.90	1.01
4:AD:56:GLY:H	4:AD:217:ARG:HD2	1.26	1.01
5:AE:111:ARG:N	5:AE:161:GLY:HA3	1.75	1.01
6:AF:103:LYS:HA	6:AF:106:ARG:HG2	1.41	1.01
6:AF:130:ALA:HB3	6:AF:142:TRP:HB2	1.05	1.01
8:AH:118:PRO:HD2	8:AH:121:ILE:HD13	1.42	1.01
9:AI:27:VAL:O	9:AI:83:TYR:CB	2.09	1.01
9:AI:54:ALA:HA	9:AI:84:GLU:O	1.58	1.01
10:AJ:21:PRO:HD2	10:AJ:22:PRO:HD3	1.41	1.01
14:AN:25:ASP:HB2	14:AN:101:ARG:HD2	1.39	1.01
16:AP:37:ALA:O	16:AP:51:ALA:HB2	1.59	1.01
19:AS:6:LYS:HG2	19:AS:12:TYR:H	1.22	1.01
21:AU:36:LYS:HD2	21:AU:54:VAL:HG12	1.42	1.01
23:AW:2:GLU:O	23:AW:60:GLU:HA	1.60	1.01
23:AW:2:GLU:OE1	23:AW:58:VAL:HB	1.59	1.01
26:AZ:50:VAL:HG13	26:AZ:53:LEU:HD12	1.39	1.01
27:Aa:5:ILE:HD11	27:Aa:10:VAL:HG23	1.39	1.01
30:Ad:28:ARG:O	30:Ad:31:LEU:HB2	1.60	1.01
30:Ad:30:VAL:HG13	30:Ad:33:ARG:CZ	1.91	1.01
31:Ae:21:LYS:HZ2	31:Ae:21:LYS:HB2	1.24	1.01
34:BA:475:G:H2'	34:BA:476:G:C8	1.95	1.01
34:BA:520:A:H62	34:BA:529:G:H21	1.03	1.01
34:BA:1302:U:H5	46:BQ:13:LYS:NZ	1.58	1.01
34:BA:1308:U:C3'	34:BA:1309:G:OP1	2.07	1.01
34:BA:1443:G:O2'	34:BA:1446:A:O3'	1.79	1.01
35:BF:178:ARG:HD2	35:BF:184:VAL:HG11	1.42	1.01
37:BH:104:VAL:HG11	37:BH:140:VAL:HG21	1.37	1.01
38:BI:52:PRO:O	38:BI:55:VAL:HB	1.59	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:52:ILE:HD13	39:BJ:87:ARG:NH2	1.73	1.01
40:BK:69:VAL:HG22	40:BK:135:VAL:HG22	1.39	1.01
46:BQ:8:GLU:OE2	46:BQ:21:TYR:HB3	1.57	1.01
46:BQ:16:ASP:CA	46:BQ:30:ALA:HB1	1.90	1.01
50:BU:62:SER:HB3	50:BU:72:ARG:NE	1.76	1.01
55:CA:27:GLN:HG3	55:CA:28:GLN:HE21	1.20	1.01
55:CA:207:MET:HG3	55:CA:226:ILE:HD11	1.01	1.01
55:CA:248:ASN:OD1	55:CA:276:ILE:HD11	1.59	1.01
55:CA:379:GLU:CB	55:CA:580:VAL:O	2.09	1.01
55:CA:427:LYS:CG	55:CA:442:VAL:CG2	2.37	1.01
1:AA:2:G:C6	1:AA:2902:C:N4	2.28	1.00
1:AA:1151:G:H5''	18:AR:81:HIS:NE2	1.76	1.00
1:AA:1312:U:H3'	1:AA:1313:U:C5	1.96	1.00
1:AA:1718:G:N2	1:AA:1742:C:N3	2.09	1.00
1:AA:1819:A:H3'	4:AD:178:PRO:HB2	1.43	1.00
1:AA:1906:G:N7	1:AA:1929:G:C5	2.27	1.00
1:AA:2239:G:H5'	1:AA:2240:C:OP2	1.60	1.00
1:AA:2332:U:C4'	1:AA:2336:A:H62	1.73	1.00
1:AA:2532:G:O2'	1:AA:2664:G:O2'	1.79	1.00
1:AA:2847:U:H3'	17:AQ:99:LEU:CD1	1.90	1.00
10:AJ:19:PRO:CG	10:AJ:36:GLU:HA	1.89	1.00
13:AM:65:ARG:NH2	13:AM:67:MET:H	1.56	1.00
14:AN:134:ARG:HE	14:AN:137:TYR:HA	1.25	1.00
18:AR:93:LYS:NZ	18:AR:93:LYS:HA	1.76	1.00
27:Aa:4:GLY:HA2	27:Aa:11:PRO:HB3	1.40	1.00
34:BA:38:G:H22	34:BA:397:A:H5''	0.86	1.00
35:BF:155:LEU:CB	35:BF:159:PRO:HG3	1.89	1.00
36:BG:126:ARG:HB3	36:BG:128:PHE:CE1	1.95	1.00
39:BJ:47:ARG:HD3	39:BJ:57:GLN:HB3	1.42	1.00
40:BK:69:VAL:HG21	40:BK:104:LEU:HD21	1.43	1.00
41:BL:91:ARG:HG2	50:BU:34:LYS:HB2	1.39	1.00
42:BM:47:LEU:HD12	42:BM:51:ARG:HH22	1.24	1.00
46:BQ:14:ARG:HH21	46:BQ:42:ALA:HA	1.22	1.00
55:CA:58:ALA:HA	55:CA:255:LEU:HD22	1.42	1.00
55:CA:127:ILE:HG12	55:CA:163:VAL:O	1.60	1.00
55:CA:245:LYS:HZ3	55:CA:291:THR:HB	1.24	1.00
1:AA:270(M):U:H4'	1:AA:270(N):G:H4'	1.01	1.00
1:AA:1046:A:N9	9:AI:11:ALA:HB2	1.76	1.00
1:AA:1257:C:O2'	6:AF:84:VAL:HG23	1.61	1.00
1:AA:1275:A:C2	15:AO:16:HIS:HA	1.96	1.00
1:AA:1363:C:N4	27:Aa:2:LYS:HE2	1.76	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:105:ILE:HD12	4:AD:106:ILE:H	1.21	1.00
7:AG:5:VAL:HG12	7:AG:9:ARG:HH22	1.22	1.00
10:AJ:24:GLY:H	10:AJ:35:MET:HE2	1.20	1.00
11:AK:46:VAL:CG1	11:AK:47:ALA:H	1.70	1.00
16:AP:9:ARG:HH11	16:AP:9:ARG:HB2	1.25	1.00
21:AU:66:LEU:HG	21:AU:69:TYR:O	1.60	1.00
34:BA:291:C:H3'	34:BA:305:G:N2	1.76	1.00
34:BA:1162:C:C2	34:BA:1163:C:H5	1.78	1.00
34:BA:1311:G:H22	34:BA:1326:C:H1'	0.87	1.00
38:BI:76:ILE:HD13	38:BI:142:LEU:HB2	1.40	1.00
39:BJ:3:ARG:CA	39:BJ:67:MET:HE1	1.89	1.00
41:BL:84:ARG:HB3	41:BL:84:ARG:NH1	1.75	1.00
41:BL:129:VAL:HG22	41:BL:130:GLY:H	1.26	1.00
43:BN:18:ALA:HB3	43:BN:91:PRO:HB3	1.41	1.00
45:BP:106:ASP:CA	55:CA:329:ARG:CD	2.38	1.00
46:BQ:20:THR:CA	46:BQ:26:GLY:HA2	1.91	1.00
47:BR:24:CYS:HB2	47:BR:40:CYS:N	1.76	1.00
55:CA:400:TYR:CD1	55:CA:443:ILE:C	2.40	1.00
1:AA:270:A:N1	1:AA:370:G:H1'	1.75	1.00
1:AA:535:C:H5'	18:AR:49:HIS:HB3	1.44	1.00
1:AA:871:U:H4'	14:AN:69:PHE:CZ	1.96	1.00
1:AA:1107:G:H2'	1:AA:1108:U:H5'	1.41	1.00
1:AA:1466:G:C2'	1:AA:1547:C:H41	1.73	1.00
1:AA:1774:C:C6	1:AA:1775:U:H5	1.79	1.00
1:AA:1839:G:O6	1:AA:1927:A:C2	2.14	1.00
1:AA:1906:G:N7	1:AA:1929:G:C4	2.30	1.00
1:AA:1993:U:H2'	1:AA:1994:C:H6	1.20	1.00
1:AA:2025:C:H5'	11:AK:78:TYR:HH	1.14	1.00
1:AA:2041:U:H2'	1:AA:2042:A:H8	1.23	1.00
1:AA:2091:U:H2'	1:AA:2092:U:H5'	1.41	1.00
1:AA:2418:A:H2'	1:AA:2419:U:O4'	1.62	1.00
1:AA:2675:A:H4'	12:AL:29:ASN:OD1	1.62	1.00
3:AC:103:ILE:HB	3:AC:127:LEU:HD21	1.44	1.00
4:AD:246:PRO:HG3	4:AD:252:TRP:CE3	1.97	1.00
5:AE:8:LYS:HZ2	5:AE:9:VAL:HG13	1.22	1.00
6:AF:19:GLU:O	6:AF:20:LEU:CD2	2.10	1.00
6:AF:119:ARG:HB2	6:AF:119:ARG:HH11	1.21	1.00
10:AJ:51:ALA:O	10:AJ:72:PRO:CB	2.10	1.00
14:AN:34:LEU:HB2	14:AN:67:ARG:HH22	1.24	1.00
16:AP:28:VAL:HG22	16:AP:29:PHE:H	1.24	1.00
17:AQ:53:ARG:NE	17:AQ:53:ARG:HA	1.73	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:40:LEU:HA	19:AS:54:GLY:HA3	1.39	1.00
19:AS:40:LEU:HD21	19:AS:55:ALA:HB2	1.43	1.00
20:AT:39:THR:OG1	28:Ab:28:PRO:HG3	1.61	1.00
23:AW:157:LEU:HD13	23:AW:161:VAL:HG13	1.44	1.00
25:AY:20:VAL:HG23	25:AY:52:ILE:HG23	1.43	1.00
26:AZ:45:GLY:O	26:AZ:48:GLU:HG2	1.61	1.00
33:Ag:25:UNK:CA	33:Ag:130:UNK:CB	2.38	1.00
34:BA:8:A:H1'	38:BI:102:ALA:O	1.61	1.00
34:BA:12:U:H2'	34:BA:13:U:H5	1.21	1.00
34:BA:1053:G:H5'	34:BA:1054:C:H5'	1.40	1.00
34:BA:1316:G:H4'	34:BA:1360:A:C5	1.95	1.00
34:BA:1323:G:H2'	34:BA:1324:A:H8	1.27	1.00
38:BI:78:HIS:ND1	41:BL:107:LEU:HD11	1.76	1.00
40:BK:113:GLU:HG3	40:BK:118:VAL:HB	1.42	1.00
41:BL:26:VAL:HG22	41:BL:27:PRO:HD2	1.42	1.00
47:BR:16:PHE:CZ	52:BW:14:HIS:NE2	2.29	1.00
48:BS:60:VAL:O	48:BS:63:ARG:HG3	1.60	1.00
50:BU:82:MET:O	50:BU:85:VAL:HB	1.61	1.00
55:CA:2:ILE:HG23	55:CA:268:ALA:HB2	1.00	1.00
55:CA:22:VAL:HG12	55:CA:56:ILE:HG12	1.39	1.00
1:AA:559:G:H2'	1:AA:560:C:H6	1.21	1.00
1:AA:716:A:O2'	48:BS:44:LYS:HD3	1.62	1.00
1:AA:948:G:H1'	1:AA:984:A:C2	1.97	1.00
1:AA:1081:U:C5'	10:AJ:125:ARG:CD	2.40	1.00
1:AA:1252:G:H22	18:AR:37:GLU:HG3	1.22	1.00
1:AA:2254:C:C2'	1:AA:2255:G:H5'	1.90	1.00
1:AA:2619:C:C4'	5:AE:152:LYS:HA	1.91	1.00
1:AA:2629:A:H5'	1:AA:2895:U:N1	1.75	1.00
2:AB:102:G:H2'	23:AW:73:GLN:HE21	1.20	1.00
6:AF:155:LEU:HG	6:AF:189:THR:HG21	1.42	1.00
10:AJ:79:ARG:NH1	10:AJ:84:LEU:HD21	1.76	1.00
19:AS:62:LEU:HD22	19:AS:99:ILE:H	1.25	1.00
20:AT:29:LEU:O	20:AT:33:ARG:HB2	1.61	1.00
29:Ac:16:CYS:HB2	29:Ac:49:HIS:CA	1.90	1.00
34:BA:186(B):C:H4'	53:BX:89:ARG:HH12	1.27	1.00
34:BA:191:G:H1'	53:BX:105:SER:HA	1.43	1.00
34:BA:408:A:H2'	34:BA:409:G:H8	1.16	1.00
34:BA:1442:G:N2	34:BA:1446:A:H5''	1.77	1.00
40:BK:143:ARG:HH11	40:BK:144:MET:HB2	1.25	1.00
51:BV:36:ASN:O	51:BV:40:LEU:HG	1.59	1.00
55:CA:64:ILE:HD11	55:CA:187:TYR:HB3	1.39	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:379:GLU:HB3	55:CA:580:VAL:O	1.60	1.00
55:CA:382:VAL:HG11	55:CA:569:LEU:HD21	1.38	1.00
1:AA:1918:A:C2'	34:BA:1408:A:C5'	2.38	1.00
1:AA:2286:A:C2	29:Ac:27:LYS:HB3	1.97	1.00
1:AA:2311:A:H3'	1:AA:2312:U:C5	1.96	1.00
1:AA:2344:U:H5''	29:Ac:38:LYS:CG	1.91	1.00
1:AA:2361:A:OP2	31:Ae:28:GLY:HA2	1.62	1.00
5:AE:104:VAL:HG13	5:AE:197:ILE:O	1.59	1.00
14:AN:12:GLN:HE22	14:AN:13:GLN:NE2	1.59	1.00
34:BA:37:U:H3'	34:BA:37:U:C6	1.96	1.00
35:BF:222:ILE:HB	35:BF:226:ARG:NH2	1.77	1.00
36:BG:30:ARG:HG2	36:BG:31:HIS:H	1.27	1.00
46:BQ:108:ARG:HH11	46:BQ:108:ARG:HA	1.21	1.00
55:CA:55:THR:OG1	55:CA:254:VAL:CG1	2.09	1.00
55:CA:487:VAL:HG22	55:CA:532:ASP:OD2	1.57	1.00
1:AA:270(M):U:C4'	1:AA:270(N):G:H4'	1.91	1.00
1:AA:355:G:H2'	1:AA:356:G:C8	1.97	1.00
1:AA:944:G:H5''	1:AA:945:A:H5''	1.40	1.00
1:AA:1049:C:N3	1:AA:1050:A:N6	2.08	1.00
1:AA:2277:G:H3'	1:AA:2278:A:H5''	1.39	1.00
4:AD:46:GLN:OE1	4:AD:51:VAL:HG23	1.61	1.00
10:AJ:75:SER:CA	10:AJ:130:SER:CB	2.35	1.00
17:AQ:58:ASN:N	17:AQ:58:ASN:HD22	1.55	1.00
34:BA:781:A:H2'	34:BA:782:A:C5'	1.92	1.00
34:BA:1311:G:C5	34:BA:1327:C:C6	2.45	1.00
37:BH:20:TYR:HA	37:BH:26:CYS:O	1.61	1.00
41:BL:29:SER:HB2	41:BL:32:LYS:CE	1.91	1.00
1:AA:531:C:H42	18:AR:38:THR:HA	1.25	1.00
1:AA:716:A:C1'	48:BS:44:LYS:CD	2.38	1.00
1:AA:1359:A:H62	1:AA:1371:G:H21	1.02	1.00
1:AA:1903:G:H2'	1:AA:1904:G:H8	1.26	1.00
1:AA:1939:U:H1'	1:AA:2592:G:C1'	1.91	1.00
1:AA:2674:G:H2'	1:AA:2675:A:C8	1.95	1.00
5:AE:8:LYS:NZ	5:AE:9:VAL:HG13	1.76	1.00
6:AF:192:LEU:HD11	6:AF:194:MET:HG3	1.42	1.00
12:AL:7:TYR:HD1	12:AL:7:TYR:N	1.56	1.00
23:AW:43:GLU:H	23:AW:43:GLU:CD	1.68	1.00
23:AW:94:GLU:H	23:AW:95:PRO:CD	1.73	1.00
34:BA:983:A:H1'	34:BA:1201:A:N7	1.77	1.00
34:BA:1192:C:H6	34:BA:1192:C:H3'	1.25	1.00
34:BA:1311:G:C2	34:BA:1327:C:C6	2.50	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:108:ASN:HD21	36:BG:110:ASN:HB2	1.27	1.00
38:BI:79:GLU:HB3	38:BI:92:LYS:HA	1.39	1.00
48:BS:7:GLU:O	48:BS:10:LYS:HG2	1.60	1.00
52:BW:53:ASN:HD21	52:BW:56:GLN:HB2	1.27	1.00
1:AA:2648:C:H3'	1:AA:2649:U:C5	1.96	0.99
4:AD:54:ARG:HA	4:AD:219:PRO:HG2	1.43	0.99
4:AD:202:LYS:HD2	4:AD:202:LYS:H	1.25	0.99
6:AF:64:ILE:HD13	6:AF:65:TRP:N	1.75	0.99
10:AJ:23:VAL:HG21	10:AJ:41:PHE:CZ	1.97	0.99
11:AK:15:LEU:HG	11:AK:138:LEU:O	1.60	0.99
12:AL:24:VAL:HG21	12:AL:26:LYS:HE3	1.44	0.99
13:AM:45:LEU:HD13	31:Ae:59:LYS:CE	1.91	0.99
13:AM:46:LYS:HB3	13:AM:49:ARG:CZ	1.91	0.99
16:AP:9:ARG:HB2	16:AP:9:ARG:NH1	1.76	0.99
20:AT:16:LYS:HD3	20:AT:16:LYS:H	1.24	0.99
34:BA:1226:C:C5	46:BQ:104:ARG:HB2	1.97	0.99
34:BA:1349:A:OP2	42:BM:118:LYS:HD2	1.61	0.99
35:BF:95:GLN:HE21	35:BF:148:TYR:HB3	1.23	0.99
44:BO:111:ASP:OD2	44:BO:113:PRO:HD3	1.61	0.99
46:BQ:85:GLY:O	52:BW:74:PHE:HA	1.60	0.99
51:BV:21:LYS:NZ	51:BV:23:LYS:HB3	1.77	0.99
52:BW:15:LEU:HD12	52:BW:71:LEU:HD11	1.37	0.99
55:CA:156:GLU:HA	55:CA:158:LEU:N	1.77	0.99
1:AA:5:A:N6	1:AA:2898:U:C4	2.25	0.99
1:AA:150:C:H42	1:AA:176:G:H1	1.01	0.99
1:AA:234:C:H42	1:AA:430:G:H22	1.05	0.99
1:AA:279:C:N4	1:AA:359:A:N3	2.10	0.99
1:AA:325:G:H2'	1:AA:326:G:C8	1.97	0.99
1:AA:869:G:C2'	1:AA:870:A:H5''	1.90	0.99
4:AD:5:LYS:HD3	4:AD:29:PRO:HB3	1.38	0.99
6:AF:66:PRO:C	6:AF:68:LYS:H	1.64	0.99
6:AF:123:LEU:HD12	6:AF:193:VAL:HG22	1.38	0.99
6:AF:131:GLY:HA2	6:AF:138:GLU:HG3	1.41	0.99
10:AJ:52:ILE:C	10:AJ:72:PRO:HA	1.86	0.99
12:AL:122:LEU:H	17:AQ:70:VAL:HG12	0.85	0.99
13:AM:128:HIS:HA	13:AM:147:LEU:HD21	1.44	0.99
35:BF:55:PHE:HA	35:BF:58:ILE:CD1	1.91	0.99
46:BQ:10:PRO:HB3	46:BQ:18:ALA:HB2	1.42	0.99
46:BQ:98:VAL:HG23	46:BQ:110:ARG:HH12	1.22	0.99
55:CA:5:LEU:HD13	55:CA:268:ALA:HB3	1.02	0.99
55:CA:67:ASP:HB3	55:CA:191:VAL:HG13	1.01	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:379:GLU:CA	55:CA:580:VAL:O	2.11	0.99
55:CA:380:LEU:CD1	55:CA:580:VAL:CG2	2.40	0.99
55:CA:502:PHE:CD1	55:CA:555:VAL:HG22	1.97	0.99
1:AA:5:A:C2	1:AA:2899:G:C4	2.50	0.99
1:AA:265:A:H3'	1:AA:265:A:C8	1.96	0.99
1:AA:839:U:H2'	1:AA:840:C:C6	1.96	0.99
1:AA:1995:U:C5'	1:AA:1996:C:H5'	1.91	0.99
1:AA:2348:U:H3'	31:Ae:42:ARG:NH2	1.76	0.99
8:AH:17:VAL:HG21	8:AH:45:VAL:HG11	1.44	0.99
12:AL:77:ILE:HG21	17:AQ:65:LYS:HE2	1.40	0.99
12:AL:119:PRO:CA	34:BA:347:G:OP2	2.11	0.99
13:AM:131:SER:O	13:AM:134:ALA:HB3	1.62	0.99
14:AN:78:PRO:HB3	14:AN:81:VAL:HG23	1.41	0.99
18:AR:67:ALA:HA	18:AR:70:ARG:HH21	1.27	0.99
22:AV:75:ILE:HG22	22:AV:100:ALA:HB2	1.44	0.99
34:BA:1005:A:H3'	34:BA:1006:C:H6	1.24	0.99
34:BA:1205:U:H4'	36:BG:195:VAL:HG13	1.41	0.99
34:BA:1226:C:C5	46:BQ:104:ARG:HG3	1.97	0.99
34:BA:1308:U:C5'	46:BQ:110:ARG:HH12	1.61	0.99
37:BH:141:ARG:HD3	37:BH:142:PRO:HD2	1.40	0.99
40:BK:140:ASP:HA	40:BK:143:ARG:CZ	1.91	0.99
42:BM:47:LEU:HD13	42:BM:50:LEU:HB3	1.44	0.99
43:BN:30:SER:HB2	43:BN:81:THR:CA	1.91	0.99
55:CA:10:ILE:CD1	55:CA:21:LEU:CB	2.39	0.99
55:CA:19:THR:HA	55:CA:21:LEU:N	1.77	0.99
55:CA:363:GLU:OE2	55:CA:570:GLU:CD	2.05	0.99
55:CA:512:LEU:HD13	55:CA:518:VAL:HG11	1.43	0.99
1:AA:6:A:N1	1:AA:2897:U:C2	2.31	0.99
1:AA:451:C:H41	1:AA:453:C:H3'	1.26	0.99
1:AA:627:A:C6	1:AA:637:A:H1'	1.96	0.99
1:AA:1044:G:N3	9:AI:6:ASN:HA	1.69	0.99
1:AA:2581:G:N1	1:AA:2610:C:H6	1.60	0.99
1:AA:2660:A:N6	55:CA:457:THR:HG1	1.50	0.99
5:AE:11:MET:O	5:AE:22:PRO:HD2	1.62	0.99
23:AW:179:ASP:O	23:AW:180:VAL:HG23	1.60	0.99
34:BA:164:U:H2'	34:BA:165:C:C5	1.97	0.99
34:BA:678:U:H2'	34:BA:679:C:H6	1.26	0.99
34:BA:1066:C:H3'	34:BA:1067:A:H8	1.27	0.99
34:BA:1308:U:H5''	46:BQ:110:ARG:HH12	1.22	0.99
34:BA:1477:C:H2'	34:BA:1478:C:C6	1.97	0.99
35:BF:111:ARG:HH11	35:BF:111:ARG:HA	1.25	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:15:THR:HG21	36:BG:181:ASN:HA	1.41	0.99
52:BW:69:HIS:HB2	52:BW:74:PHE:CZ	1.96	0.99
55:CA:27:GLN:CA	55:CA:28:GLN:HB3	1.89	0.99
55:CA:230:LYS:HG3	55:CA:266:ASP:HA	1.01	0.99
1:AA:6:A:C5	1:AA:2898:U:N3	2.30	0.99
1:AA:1902:C:C6	1:AA:1903:G:N7	2.30	0.99
1:AA:2459:A:N3	1:AA:2460:U:C1'	2.26	0.99
10:AJ:105:LEU:HA	10:AJ:123:ALA:HB1	1.40	0.99
12:AL:85:VAL:O	12:AL:93:PRO:HD3	1.61	0.99
14:AN:115:MET:O	14:AN:118:LEU:HG	1.60	0.99
20:AT:28:SER:HA	20:AT:70:TYR:HA	1.45	0.99
20:AT:64:MET:HG2	20:AT:109:GLU:HG3	1.42	0.99
23:AW:57:ILE:HG23	23:AW:69:THR:O	1.62	0.99
34:BA:22:G:H2'	34:BA:23:C:H6	1.22	0.99
34:BA:1433:A:H62	34:BA:1467:G:N2	1.59	0.99
48:BS:62:GLN:NE2	48:BS:66:LEU:HD21	1.76	0.99
55:CA:2:ILE:CG2	55:CA:199:VAL:HG11	1.92	0.99
55:CA:13:HIS:CE1	55:CA:106:MET:HB2	1.97	0.99
55:CA:79:ALA:HA	55:CA:80:ASP:HB2	1.44	0.99
55:CA:127:ILE:CB	55:CA:164:TYR:HA	1.91	0.99
1:AA:616:A:H3'	1:AA:616:A:OP2	1.60	0.99
1:AA:1059:G:H4'	10:AJ:74:ALA:H	1.28	0.99
1:AA:1326:U:H2'	1:AA:1327:C:H5'	1.44	0.99
1:AA:1799:G:H1	4:AD:157:ARG:HH12	1.01	0.99
4:AD:133:LEU:HD11	4:AD:185:VAL:HG12	1.43	0.99
7:AG:36:LYS:HE2	7:AG:38:VAL:HG13	1.41	0.99
7:AG:53:LEU:HD23	7:AG:71:THR:H	1.26	0.99
7:AG:54:GLU:O	7:AG:57:ALA:HB3	1.60	0.99
8:AH:175:LYS:HG3	8:AH:176:ALA:N	1.77	0.99
10:AJ:37:PHE:CZ	10:AJ:63:ARG:CD	2.44	0.99
13:AM:56:SER:HB3	31:Ae:13:ARG:CZ	1.91	0.99
19:AS:14:VAL:HG12	19:AS:15:GLU:H	1.27	0.99
29:Ac:32:ASN:CG	29:Ac:33:LYS:H	1.69	0.99
31:Ae:8:LYS:H	31:Ae:8:LYS:HE2	1.28	0.99
34:BA:129(A):G:H2'	34:BA:189:U:C6	1.98	0.99
34:BA:1197:G:OP1	34:BA:1197:G:H3'	1.62	0.99
37:BH:36:ARG:HB3	37:BH:38:TYR:CZ	1.98	0.99
41:BL:80:ILE:HD12	41:BL:80:ILE:H	1.25	0.99
46:BQ:4:ILE:HD12	46:BQ:57:ARG:HG3	1.21	0.99
46:BQ:19:LEU:CD1	46:BQ:30:ALA:N	2.26	0.99
55:CA:64:ILE:CD1	55:CA:187:TYR:CB	2.39	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:80:ASP:OD1	55:CA:364:LEU:C	2.04	0.99
55:CA:238:THR:OG1	55:CA:291:THR:HG22	1.62	0.99
55:CA:251:VAL:HG12	55:CA:273:ILE:HA	1.41	0.99
55:CA:287:THR:HB	55:CA:297:LEU:CD2	1.91	0.99
1:AA:594:U:H2'	1:AA:595:C:C6	1.96	0.99
1:AA:603:A:N6	1:AA:624:C:N4	2.11	0.99
1:AA:627:A:H61	1:AA:638:G:H1'	1.27	0.99
1:AA:899:A:C2	1:AA:900:A:C2	2.51	0.99
1:AA:1697:G:C5'	1:AA:1698:A:H5'	1.93	0.99
1:AA:2213:U:H5'	1:AA:2215:G:N7	1.75	0.99
4:AD:87:ASN:N	4:AD:87:ASN:HD22	1.53	0.99
4:AD:196:VAL:HG12	4:AD:197:GLY:N	1.66	0.99
14:AN:121:ALA:O	14:AN:125:LEU:HG	1.62	0.99
18:AR:44:ASN:ND2	19:AS:78:LYS:HG2	1.76	0.99
20:AT:20:VAL:HG22	20:AT:24:ILE:HD11	1.40	0.99
30:Ad:48:LYS:HG3	30:Ad:49:ARG:H	0.83	0.99
34:BA:91:C:H2'	34:BA:92:G:H8	1.23	0.99
34:BA:475:G:H2'	34:BA:476:G:H8	1.26	0.99
34:BA:1256:A:O3'	34:BA:1257:U:H4'	1.62	0.99
55:CA:483:ARG:NH1	55:CA:573:ASP:HB2	1.77	0.99
1:AA:519:U:H6	1:AA:519:U:H5'	1.23	0.99
1:AA:593:G:OP1	31:Ae:62:LEU:HD21	1.63	0.99
1:AA:624:C:H41	13:AM:104:GLY:HA2	1.27	0.99
1:AA:1106:G:H2'	1:AA:1107:G:C8	1.98	0.99
1:AA:1202:C:C6	1:AA:1203:G:H1'	1.97	0.99
1:AA:1224:G:H2'	19:AS:87:HIS:NE2	1.77	0.99
2:AB:48:A:H2'	2:AB:49:C:C6	1.98	0.99
6:AF:70:THR:C	6:AF:72:ARG:H	1.70	0.99
10:AJ:84:LEU:O	10:AJ:86:LYS:NZ	1.95	0.99
12:AL:52:VAL:HG22	12:AL:53:LYS:H	1.21	0.99
20:AT:4:LYS:HA	20:AT:106:ILE:HD12	1.45	0.99
25:AY:12:SER:HB3	25:AY:13:PRO:HD2	1.41	0.99
34:BA:174:C:H2'	34:BA:175:C:H6	1.27	0.99
34:BA:572:A:H4'	34:BA:917:G:H5'	1.40	0.99
46:BQ:20:THR:HA	46:BQ:26:GLY:CA	1.92	0.99
46:BQ:25:ILE:HG22	46:BQ:26:GLY:H	1.24	0.99
47:BR:26:ARG:HD2	47:BR:47:LEU:HD12	1.40	0.99
52:BW:9:VAL:HG13	52:BW:41:VAL:CA	1.92	0.99
1:AA:653:A:H62	1:AA:655:A:H1'	1.28	0.99
1:AA:2701:C:H3'	1:AA:2702:U:C5'	1.92	0.99
2:AB:71:C:H2'	2:AB:72:G:C5'	1.93	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LEU:HB2	4:AD:86:PRO:HG2	1.43	0.99
5:AE:136:ARG:C	5:AE:137:HIS:ND1	2.19	0.99
12:AL:24:VAL:HA	12:AL:39:ILE:HG22	1.45	0.99
16:AP:71:ARG:O	16:AP:74:ALA:HB3	1.62	0.99
19:AS:5:VAL:HG11	19:AS:37:VAL:HG13	1.44	0.99
34:BA:169:C:H2'	34:BA:170:U:C6	1.98	0.99
34:BA:1225:A:H4'	52:BW:78:ARG:CB	1.91	0.99
34:BA:1441:G:N3	34:BA:1460:A:N6	2.11	0.99
34:BA:1465:C:H2'	34:BA:1466:C:H5'	1.41	0.99
36:BG:36:ASP:O	36:BG:39:ILE:HB	1.61	0.99
55:CA:2:ILE:HG22	55:CA:199:VAL:HG21	1.01	0.99
55:CA:15:ASP:CB	55:CA:16:HIS:CG	2.38	0.99
1:AA:1042:G:C6	1:AA:1113:U:C4	2.50	0.99
1:AA:1977:A:H2'	1:AA:1978:A:H8	1.28	0.99
1:AA:2023:G:H2'	1:AA:2024:G:H8	1.22	0.99
1:AA:2791:C:H2'	1:AA:2792:G:H8	1.25	0.99
4:AD:183:ARG:HG2	4:AD:268:ARG:CB	1.93	0.99
5:AE:52:LEU:HA	5:AE:74:PRO:HA	1.42	0.99
5:AE:116:VAL:CG2	5:AE:138:PRO:HA	1.93	0.99
6:AF:31:HIS:HB2	13:AM:14:LYS:HZ2	1.25	0.99
10:AJ:12:LEU:HD21	10:AJ:57:ILE:HG21	1.45	0.99
10:AJ:14:ALA:CA	10:AJ:48:MET:O	2.11	0.99
10:AJ:105:LEU:HD23	10:AJ:123:ALA:HB1	1.43	0.99
23:AW:158:PRO:HB2	23:AW:159:PRO:HD2	1.45	0.99
34:BA:64:G:H4'	34:BA:65:U:H5''	1.39	0.99
34:BA:112:G:H5'	34:BA:389:A:H4'	1.41	0.99
34:BA:1115:C:N3	34:BA:1186:G:C6	2.30	0.99
34:BA:1137:C:H4'	34:BA:1138:G:C2	1.98	0.99
34:BA:1318:A:H1'	52:BW:35:SER:OG	0.82	0.99
37:BH:20:TYR:HD1	37:BH:21:LEU:N	1.58	0.99
41:BL:100:ILE:HD12	41:BL:100:ILE:H	1.27	0.99
46:BQ:2:ALA:N	46:BQ:10:PRO:HD2	1.78	0.99
1:AA:27:G:N1	1:AA:512:G:H2'	1.78	0.98
1:AA:1060:U:OP1	10:AJ:52:ILE:HG21	1.55	0.98
1:AA:1450:C:O2'	1:AA:1451:C:H4'	1.63	0.98
1:AA:1649:G:N2	15:AO:107:ASP:HB2	1.77	0.98
1:AA:1902:C:C5	1:AA:1903:G:C5	2.51	0.98
1:AA:2392:A:H1'	13:AM:55:ARG:HH22	0.84	0.98
3:AC:108:MET:HE3	3:AC:136:LEU:HD12	1.40	0.98
4:AD:7:LYS:CG	4:AD:25:THR:HG22	1.93	0.98
4:AD:134:ARG:CA	4:AD:168:ARG:HH12	1.76	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:163:ALA:HB2	7:AG:172:LEU:HD23	1.43	0.98
8:AH:164:TYR:HE2	8:AH:167:GLU:H	1.09	0.98
14:AN:63:LYS:HD3	14:AN:64:ILE:H	1.25	0.98
18:AR:17:ILE:CA	18:AR:20:LEU:HG	1.93	0.98
27:Aa:68:ARG:N	27:Aa:68:ARG:HD3	1.77	0.98
29:Ac:31:PRO:HB3	29:Ac:34:LEU:HD12	1.44	0.98
34:BA:962:C:H4'	34:BA:1200:C:N4	1.78	0.98
34:BA:1151:A:C5	34:BA:1152:A:C8	2.51	0.98
34:BA:1310:G:N1	34:BA:1327:C:C4	1.98	0.98
38:BI:152:ARG:CZ	41:BL:43:GLY:HA3	1.93	0.98
39:BJ:76:ALA:HB1	39:BJ:80:ARG:HH12	1.25	0.98
46:BQ:8:GLU:HB2	46:BQ:22:ILE:HG12	1.40	0.98
46:BQ:10:PRO:HB2	46:BQ:45:VAL:CG1	1.92	0.98
48:BS:54:ARG:O	48:BS:57:LEU:HB2	1.63	0.98
55:CA:396:LYS:CB	55:CA:475:VAL:N	2.18	0.98
1:AA:270(O):U:H5''	1:AA:270(P):C:C5	1.97	0.98
1:AA:1022:G:OP1	1:AA:1022:G:H4'	1.62	0.98
1:AA:1051:G:O4'	1:AA:2752:C:P	2.21	0.98
1:AA:1255:U:H5'	1:AA:1256:G:H5''	1.40	0.98
1:AA:1557:C:H2'	1:AA:1558:A:C8	1.97	0.98
8:AH:7:LEU:HG	8:AH:51:ARG:HH11	1.28	0.98
14:AN:74:TYR:OH	14:AN:94:VAL:HG22	1.62	0.98
17:AQ:17:THR:HB	17:AQ:20:PRO:HD3	1.41	0.98
21:AU:47:PHE:HE2	21:AU:89:ILE:HA	1.22	0.98
24:AX:65:GLY:HA3	24:AX:81:VAL:HG12	1.45	0.98
33:Ag:7:UNK:O	33:Ag:148:UNK:N	1.96	0.98
33:Ag:290:UNK:CA	33:Ag:342:UNK:C	2.39	0.98
34:BA:50:A:C5'	34:BA:51:A:H5'	1.92	0.98
34:BA:495:A:H1'	34:BA:496:A:C8	1.98	0.98
34:BA:888:G:H21	34:BA:909:A:N6	1.60	0.98
34:BA:1206:G:H5'	36:BG:194:GLY:HA2	1.45	0.98
37:BH:19:LEU:H	37:BH:33:MET:HE1	1.24	0.98
39:BJ:14:LEU:CD1	39:BJ:15:ASP:H	1.75	0.98
46:BQ:10:PRO:HG2	46:BQ:45:VAL:HG13	1.41	0.98
46:BQ:16:ASP:C	46:BQ:30:ALA:HB1	1.88	0.98
55:CA:395:ARG:HG3	55:CA:474:ASP:CG	1.88	0.98
1:AA:598:G:H4'	13:AM:12:ALA:HB3	1.45	0.98
1:AA:1498:C:C6	1:AA:1576:U:H4'	1.98	0.98
3:AC:62:VAL:HB	3:AC:195:ALA:CB	1.92	0.98
11:AK:96:GLU:O	11:AK:99:LEU:HG	1.61	0.98
12:AL:117:LEU:O	12:AL:119:PRO:HD3	1.61	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:10:LEU:HD13	15:AO:21:TYR:OH	1.64	0.98
23:AW:165:VAL:HG12	23:AW:166:SER:N	1.75	0.98
33:Ag:290:UNK:CB	33:Ag:343:UNK:CB	2.41	0.98
34:BA:37:U:OP1	45:BP:123:LYS:HB3	1.63	0.98
34:BA:979:C:H5''	34:BA:1222:G:O6	1.63	0.98
37:BH:187:ARG:NE	37:BH:188:LEU:HG	1.76	0.98
38:BI:12:LEU:HB3	38:BI:31:LEU:HB3	1.44	0.98
55:CA:207:MET:CE	55:CA:224:GLY:HA3	1.92	0.98
55:CA:312:CYS:HA	55:CA:354:ASP:C	1.87	0.98
55:CA:401:GLU:O	55:CA:467:SER:CB	2.11	0.98
55:CA:497:VAL:CA	55:CA:514:HIS:CE1	2.40	0.98
1:AA:343:C:O2'	1:AA:344:G:H5'	1.63	0.98
1:AA:914:C:H6	1:AA:914:C:H3'	1.25	0.98
1:AA:1068:G:N3	1:AA:1069:A:N6	2.10	0.98
1:AA:1488:G:C2'	1:AA:1489:U:H5'	1.93	0.98
1:AA:1625:C:C2'	1:AA:1626:G:H4'	1.91	0.98
1:AA:1910:G:C2	1:AA:1921:G:C8	2.44	0.98
5:AE:154:LYS:NZ	5:AE:156:MET:HE2	1.77	0.98
6:AF:122:LYS:HE3	6:AF:192:LEU:HD12	1.45	0.98
9:AI:140:GLY:CA	33:Ag:136:UNK:C	2.41	0.98
12:AL:7:TYR:HB3	12:AL:18:LYS:NZ	1.76	0.98
14:AN:118:LEU:HD13	14:AN:131:ILE:HG21	1.43	0.98
14:AN:121:ALA:O	14:AN:124:LYS:HB2	1.63	0.98
18:AR:17:ILE:HA	18:AR:20:LEU:CG	1.93	0.98
19:AS:69:LYS:O	19:AS:91:TYR:O	1.79	0.98
34:BA:384:G:H2'	34:BA:385:C:C6	1.98	0.98
34:BA:1162:C:C2	34:BA:1163:C:C5	2.50	0.98
55:CA:57:LEU:HD12	55:CA:255:LEU:HD23	1.45	0.98
55:CA:287:THR:HB	55:CA:297:LEU:HD21	1.45	0.98
55:CA:395:ARG:CG	55:CA:474:ASP:CG	2.30	0.98
1:AA:411:G:H21	1:AA:2408:U:H3	1.12	0.98
1:AA:684:G:H2'	1:AA:687:C:H41	1.25	0.98
1:AA:1058:G:H1'	10:AJ:116:ASN:ND2	1.79	0.98
1:AA:1069:A:N1	1:AA:1096:A:C5'	2.26	0.98
1:AA:2023:G:H2'	1:AA:2024:G:C8	1.97	0.98
1:AA:2319:G:H4'	1:AA:2320:A:OP1	1.62	0.98
4:AD:171:ASP:O	4:AD:186:HIS:HA	1.64	0.98
6:AF:122:LYS:HA	6:AF:122:LYS:HZ3	1.27	0.98
9:AI:54:ALA:N	9:AI:84:GLU:O	1.96	0.98
9:AI:94:VAL:HA	9:AI:134:LEU:N	1.77	0.98
11:AK:30:ILE:O	11:AK:34:LEU:HD12	1.64	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:11:GLU:H	17:AQ:11:GLU:CD	1.71	0.98
21:AU:73:ARG:NH1	21:AU:73:ARG:HB3	1.79	0.98
28:Ab:34:PRO:HD3	28:Ab:40:LYS:HD2	1.42	0.98
34:BA:1308:U:H5''	46:BQ:110:ARG:NH1	1.76	0.98
36:BG:69:HIS:ND1	36:BG:104:GLN:HB2	1.77	0.98
43:BN:23:ILE:HG13	43:BN:85:LEU:HB3	1.45	0.98
45:BP:101:VAL:O	45:BP:104:VAL:HG23	1.64	0.98
51:BV:61:LYS:HD2	51:BV:64:ARG:HH22	1.25	0.98
55:CA:237:VAL:O	55:CA:291:THR:HG21	1.62	0.98
1:AA:296:C:H2'	1:AA:297:C:C6	1.98	0.98
1:AA:685:A:H5''	1:AA:686:G:H21	1.25	0.98
1:AA:759:G:H2'	1:AA:760:G:H8	1.27	0.98
1:AA:881:G:N7	1:AA:896:A:N1	2.12	0.98
1:AA:2120:G:N2	3:AC:167:LYS:NZ	2.11	0.98
7:AG:60:LEU:HB3	7:AG:66:GLN:O	1.62	0.98
8:AH:110:SER:O	8:AH:112:PRO:HD2	1.61	0.98
21:AU:73:ARG:HB3	21:AU:73:ARG:HH11	1.26	0.98
30:Ad:34:ARG:HB3	30:Ad:34:ARG:HH11	1.24	0.98
31:Ae:25:MET:O	31:Ae:27:THR:HG22	1.64	0.98
32:Af:2:LYS:HG2	32:Af:35:ARG:CB	1.92	0.98
34:BA:1311:G:N2	34:BA:1326:C:H1'	1.48	0.98
34:BA:1317:C:N3	34:BA:1318:A:C4	2.28	0.98
38:BI:51:VAL:HB	38:BI:52:PRO:HD3	1.45	0.98
39:BJ:48:LEU:HB3	51:BV:78:LEU:HD23	1.44	0.98
55:CA:6:ARG:H	55:CA:69:ARG:HB2	0.83	0.98
55:CA:81:PHE:O	55:CA:361:ARG:HG3	1.64	0.98
55:CA:245:LYS:HZ3	55:CA:291:THR:CB	1.75	0.98
55:CA:390:ARG:HG2	55:CA:391:GLU:CG	1.93	0.98
1:AA:175:G:O2'	1:AA:176:G:H5'	1.63	0.98
1:AA:477:A:H2'	1:AA:478:A:H8	1.28	0.98
1:AA:1046:A:C6	9:AI:9:LEU:N	2.30	0.98
1:AA:1186:G:H8	1:AA:1187:G:C8	1.80	0.98
1:AA:1241:A:N3	1:AA:1241:A:H3'	1.79	0.98
7:AG:77:ILE:HA	7:AG:83:ARG:HE	1.27	0.98
10:AJ:112:MET:HE2	10:AJ:121:GLU:C	1.89	0.98
12:AL:68:GLU:HA	12:AL:104:ARG:NH1	1.79	0.98
18:AR:27:LEU:O	18:AR:31:SER:HB3	1.63	0.98
40:BK:155:ARG:NH1	40:BK:156:TRP:H	1.62	0.98
46:BQ:10:PRO:CB	46:BQ:45:VAL:CG1	2.41	0.98
51:BV:74:ARG:HB3	51:BV:81:PHE:CD2	1.98	0.98
55:CA:160:PHE:CD1	55:CA:162:ILE:HB	1.98	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:274:VAL:HG22	55:CA:275:ALA:H	1.23	0.98
55:CA:370:ILE:HG21	55:CA:565:LEU:CD1	1.92	0.98
55:CA:374:ARG:HD2	55:CA:585:ILE:HD11	0.99	0.98
55:CA:572:ILE:HG21	55:CA:578:VAL:HG22	1.44	0.98
1:AA:472:A:H2'	1:AA:473:G:H5''	1.45	0.98
1:AA:1055:G:N3	1:AA:1084:A:H2	1.61	0.98
1:AA:2128:C:H5''	3:AC:218:MET:HE1	1.46	0.98
11:AK:67:LEU:H	11:AK:87:LEU:CD2	1.77	0.98
17:AQ:29:ARG:HG2	17:AQ:51:ARG:HG2	1.45	0.98
17:AQ:54:ARG:C	17:AQ:64:ARG:HB2	1.88	0.98
35:BF:81:VAL:HG12	35:BF:92:TYR:HD1	1.27	0.98
55:CA:54:ILE:CG1	55:CA:211:GLN:HE22	1.76	0.98
55:CA:487:VAL:HG11	55:CA:576:GLU:OE2	1.63	0.98
1:AA:640:C:H2'	1:AA:641:C:C5'	1.94	0.98
1:AA:894:C:O2	1:AA:895:U:O4'	1.81	0.98
1:AA:1051:G:O2'	1:AA:2752:C:H5''	1.60	0.98
1:AA:1222:C:N4	1:AA:1227:A:N6	2.12	0.98
1:AA:1518:C:H3'	1:AA:1519:G:H5''	1.43	0.98
1:AA:1977:A:H2'	1:AA:1978:A:C8	1.99	0.98
34:BA:41:G:H2'	34:BA:42:G:C8	1.98	0.98
34:BA:1268:A:H2	34:BA:1311:G:C1'	1.74	0.98
40:BK:5:ARG:HD2	40:BK:7:ALA:H	1.29	0.98
46:BQ:10:PRO:C	46:BQ:45:VAL:HG11	1.89	0.98
46:BQ:20:THR:CA	46:BQ:26:GLY:CA	2.42	0.98
55:CA:13:HIS:CG	55:CA:108:GLN:HG2	1.98	0.98
1:AA:1054:A:N1	1:AA:1106:G:N1	1.73	0.98
1:AA:2875:C:H5''	17:AQ:3:ARG:HD2	1.44	0.98
3:AC:83:ILE:O	3:AC:87:GLU:HB2	1.63	0.98
4:AD:147:LEU:HA	4:AD:185:VAL:HG13	1.46	0.98
5:AE:108:SER:OG	5:AE:164:ARG:HA	1.64	0.98
15:AO:41:ALA:HB1	15:AO:114:VAL:HG21	1.43	0.98
25:AY:60:ASN:O	25:AY:64:ARG:HB2	1.63	0.98
29:Ac:7:ILE:C	29:Ac:9:LEU:H	1.69	0.98
31:Ae:30:ARG:HH21	31:Ae:43:GLN:C	1.72	0.98
34:BA:1110:A:H2'	34:BA:1111:A:H5'	1.46	0.98
34:BA:1129:C:H5'	34:BA:1130:A:OP1	1.64	0.98
34:BA:1288:A:H2'	34:BA:1289:A:H8	1.26	0.98
34:BA:1318:A:H3'	52:BW:37:ARG:HB3	1.44	0.98
34:BA:1449:C:N4	34:BA:1454:G:O6	1.95	0.98
37:BH:24:GLU:O	37:BH:27:TYR:HB3	1.62	0.98
40:BK:143:ARG:NH1	40:BK:144:MET:HB2	1.79	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:18:THR:HG22	50:BU:43:LEU:HD21	1.42	0.98
55:CA:62:ALA:HA	55:CA:187:TYR:CE2	1.99	0.98
55:CA:311:PHE:H	55:CA:356:PHE:H	1.02	0.98
1:AA:988:A:C3'	26:AZ:10:LYS:HZ1	1.76	0.97
4:AD:60:ARG:HD3	4:AD:62:TYR:HE2	1.28	0.97
19:AS:39:LEU:HG	19:AS:58:VAL:O	1.62	0.97
23:AW:4:ARG:HG2	23:AW:5:LEU:N	1.74	0.97
32:Af:2:LYS:HG2	32:Af:35:ARG:HB2	1.00	0.97
34:BA:1128:C:H1'	34:BA:1146:A:H61	1.29	0.97
35:BF:102:LEU:H	35:BF:102:LEU:CD1	1.77	0.97
36:BG:52:LEU:HA	36:BG:70:VAL:HG22	1.41	0.97
52:BW:11:VAL:CG2	52:BW:16:LEU:HD13	1.94	0.97
55:CA:13:HIS:HB2	55:CA:108:GLN:HB2	0.98	0.97
1:AA:1047:G:H5'	1:AA:1110:G:O6	1.62	0.97
1:AA:1906:G:C1'	1:AA:1929:G:N7	2.27	0.97
2:AB:37:C:H2'	2:AB:38:C:O4'	1.61	0.97
2:AB:67:G:H2'	2:AB:68:C:H6	1.28	0.97
5:AE:49:LEU:HG	5:AE:74:PRO:HG2	1.43	0.97
5:AE:114:ALA:HB3	5:AE:118:LYS:HB2	1.45	0.97
12:AL:11:ALA:CB	12:AL:97:ARG:HH22	1.76	0.97
15:AO:16:HIS:O	15:AO:19:ALA:HB3	1.64	0.97
17:AQ:96:ARG:HD3	17:AQ:117:ASP:OD2	1.63	0.97
31:Ae:23:VAL:HG22	31:Ae:47:LYS:O	1.65	0.97
35:BF:54:THR:HG21	35:BF:201:ILE:HD11	1.42	0.97
35:BF:178:ARG:HH21	35:BF:196:LEU:HB2	1.22	0.97
47:BR:54:PRO:O	47:BR:56:VAL:HG23	1.60	0.97
49:BT:4:ILE:HG23	49:BT:21:VAL:CG1	1.93	0.97
52:BW:9:VAL:HG22	52:BW:42:PRO:CG	1.93	0.97
55:CA:318:PHE:CE2	55:CA:519:TYR:HE1	1.68	0.97
1:AA:2135:A:H4'	1:AA:2136:C:C5	1.98	0.97
11:AK:68:GLU:H	11:AK:70:LYS:HZ1	1.04	0.97
16:AP:9:ARG:HH11	16:AP:9:ARG:CB	1.75	0.97
20:AT:6:ILE:HG12	20:AT:104:THR:HA	1.44	0.97
20:AT:82:LEU:HD12	20:AT:84:ARG:HG3	1.43	0.97
22:AV:97:ARG:HA	22:AV:101:LYS:HG3	1.46	0.97
41:BL:102:ARG:HB3	41:BL:102:ARG:CZ	1.93	0.97
46:BQ:19:LEU:HD11	46:BQ:30:ALA:CB	1.93	0.97
55:CA:2:ILE:HG21	55:CA:199:VAL:CB	1.93	0.97
55:CA:206:GLN:O	55:CA:227:LYS:N	1.96	0.97
55:CA:407:VAL:O	55:CA:436:ARG:CA	2.13	0.97
1:AA:636:G:N2	13:AM:75:ILE:HD12	1.76	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:969:U:H2'	1:AA:970:C:O4'	1.63	0.97
1:AA:1081:U:C5	1:AA:1082:U:C4	2.53	0.97
1:AA:1203:G:C5	1:AA:1241:A:C8	2.49	0.97
1:AA:1559:G:H1	1:AA:1560:G:H4'	1.27	0.97
1:AA:1570:A:N6	1:AA:1571:A:H62	1.60	0.97
1:AA:1647:G:H4'	1:AA:1648:C:OP1	1.63	0.97
1:AA:2124:G:C4'	3:AC:42:GLU:HG3	1.92	0.97
1:AA:2598:A:OP1	4:AD:234:GLY:HA3	1.64	0.97
1:AA:2671:A:H2'	1:AA:2672:G:C8	1.99	0.97
2:AB:7:G:H4'	16:AP:29:PHE:CE2	1.99	0.97
2:AB:89(A):A:C2'	2:AB:90:C:H5'	1.93	0.97
8:AH:38:SER:N	8:AH:41:MET:HE2	1.77	0.97
10:AJ:27:LEU:HD22	10:AJ:58:THR:N	1.79	0.97
18:AR:53:ARG:HB2	18:AR:53:ARG:HH11	1.29	0.97
19:AS:64:HIS:HA	19:AS:97:LYS:HD2	1.46	0.97
26:AZ:9:VAL:HG22	26:AZ:53:LEU:O	1.63	0.97
26:AZ:12:PRO:HA	26:AZ:15:TYR:CE2	1.98	0.97
27:Aa:68:ARG:NH1	27:Aa:68:ARG:H	1.62	0.97
34:BA:1329:A:O2'	46:BQ:70:LEU:CD1	2.13	0.97
55:CA:27:GLN:CB	55:CA:28:GLN:CB	2.42	0.97
55:CA:250:LYS:O	55:CA:273:ILE:HD12	1.61	0.97
55:CA:377:GLY:CA	55:CA:582:PRO:CG	2.41	0.97
1:AA:5:A:C6	1:AA:2899:G:C5	2.32	0.97
1:AA:297:C:H5''	22:AV:83:THR:OG1	1.62	0.97
1:AA:570:G:N1	1:AA:2498:C:H4'	1.79	0.97
1:AA:1048:A:H8	1:AA:1110:G:HO2'	0.99	0.97
1:AA:1902:C:H2'	1:AA:1903:G:C5'	1.93	0.97
4:AD:70:TRP:HA	4:AD:73:VAL:HG13	1.44	0.97
8:AH:115:VAL:HG13	8:AH:116:GLU:N	1.79	0.97
10:AJ:131:ALA:HB1	10:AJ:136:VAL:HB	1.46	0.97
14:AN:66:ILE:CG2	14:AN:67:ARG:H	1.68	0.97
17:AQ:62:THR:HG22	17:AQ:79:HIS:HA	0.98	0.97
22:AV:49:VAL:HG21	22:AV:51:VAL:HB	1.46	0.97
22:AV:74:PRO:HB3	22:AV:101:LYS:C	1.90	0.97
34:BA:902:G:O2'	34:BA:903:G:H5'	1.62	0.97
34:BA:1239:A:H4'	34:BA:1240:U:H5''	1.46	0.97
34:BA:1309:G:N2	34:BA:1328:C:C6	2.31	0.97
34:BA:1330:U:H5'	46:BQ:70:LEU:HD22	1.46	0.97
34:BA:1339:A:H2'	34:BA:1340:A:H5'	1.44	0.97
37:BH:106:TYR:HA	37:BH:111:ALA:HB3	1.43	0.97
48:BS:62:GLN:O	48:BS:66:LEU:HD23	1.65	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:80:ALA:O	48:BS:83:GLU:HB3	1.63	0.97
50:BU:68:ARG:H	50:BU:70:ARG:NH2	1.62	0.97
55:CA:63:ALA:HB1	55:CA:65:LYS:HG2	1.42	0.97
55:CA:64:ILE:CG2	55:CA:188:GLN:NE2	2.27	0.97
55:CA:85:VAL:HG13	55:CA:88:VAL:CG2	1.94	0.97
55:CA:322:GLU:H	55:CA:323:GLY:HA3	1.29	0.97
55:CA:496:ALA:HB1	55:CA:513:GLY:O	1.62	0.97
1:AA:10:G:H21	1:AA:2801:A:H1'	1.29	0.97
1:AA:865:C:H42	1:AA:909:A:N6	1.63	0.97
1:AA:2461:C:H1'	1:AA:2492:U:H5	1.22	0.97
1:AA:2677:G:O2'	1:AA:2678:C:H5'	1.64	0.97
3:AC:122:ALA:HB1	3:AC:126:LYS:HD3	1.46	0.97
6:AF:160:ASN:O	6:AF:163:VAL:HB	1.61	0.97
10:AJ:52:ILE:HG13	10:AJ:76:TYR:CG	1.98	0.97
11:AK:85:ILE:HB	11:AK:90:MET:HE1	1.47	0.97
27:Aa:5:ILE:HG21	27:Aa:60:GLN:CD	1.89	0.97
34:BA:1108:G:H4'	34:BA:1191:A:H1'	1.46	0.97
40:BK:31:MET:HG2	40:BK:32:ARG:N	1.77	0.97
1:AA:176:G:H2'	1:AA:177:G:O4'	1.64	0.97
1:AA:674:G:H4'	6:AF:74:ARG:CZ	1.95	0.97
1:AA:1364:G:N7	27:Aa:2:LYS:HB2	1.80	0.97
1:AA:2018:G:H1'	18:AR:34:LYS:NZ	1.80	0.97
1:AA:2206:C:H2'	1:AA:2207:C:H6	1.27	0.97
1:AA:2346:A:N6	29:Ac:37:ARG:HH12	1.62	0.97
1:AA:2491:U:C6	1:AA:2492:U:H5'	1.98	0.97
1:AA:2623:G:N2	28:Ab:22:HIS:HE1	1.60	0.97
1:AA:2714:G:H2'	1:AA:2715:C:H5'	1.42	0.97
4:AD:168:ARG:HD3	4:AD:173:VAL:HG22	1.45	0.97
4:AD:176:ARG:HG3	4:AD:176:ARG:HH11	1.30	0.97
14:AN:124:LYS:HB3	14:AN:124:LYS:NZ	1.78	0.97
23:AW:28:MET:HE2	23:AW:28:MET:HA	1.46	0.97
34:BA:781:A:H4'	34:BA:1522:U:O2'	1.64	0.97
46:BQ:19:LEU:HD11	46:BQ:30:ALA:N	1.77	0.97
49:BT:21:VAL:HG21	49:BT:59:TRP:NE1	1.80	0.97
52:BW:9:VAL:HG12	52:BW:41:VAL:HG23	1.44	0.97
55:CA:426:LEU:CD1	55:CA:441:TYR:CD1	2.48	0.97
1:AA:125:G:N2	30:Ad:10:ARG:HA	1.80	0.97
1:AA:185:U:H2'	1:AA:186:G:C8	1.99	0.97
1:AA:1081:U:O4	1:AA:1086:A:C2	2.18	0.97
1:AA:1405:U:H2'	1:AA:1406:U:C5	2.00	0.97
1:AA:1555:G:H2'	1:AA:1556:C:H6	1.16	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1842:G:H2'	1:AA:1843:C:H6	1.28	0.97
1:AA:2019:A:H3'	1:AA:2020:A:H5''	1.43	0.97
1:AA:2532:G:C3'	1:AA:2657:A:C2	2.41	0.97
2:AB:77:U:O3'	23:AW:78:LYS:HE3	1.62	0.97
4:AD:232:PRO:HG2	4:AD:247:ALA:CA	1.95	0.97
10:AJ:15:GLY:N	10:AJ:45:THR:HB	1.79	0.97
10:AJ:29:GLN:OE1	55:CA:432:ASP:O	1.81	0.97
11:AK:25:ARG:O	11:AK:28:THR:HG23	1.65	0.97
12:AL:94:ARG:HG3	12:AL:95:GLY:N	1.78	0.97
12:AL:119:PRO:CB	34:BA:347:G:OP2	2.12	0.97
20:AT:14:PRO:HD3	20:AT:78:GLU:OE1	1.63	0.97
21:AU:72:LYS:O	21:AU:73:ARG:HB2	1.65	0.97
29:Ac:14:THR:HG22	29:Ac:51:GLU:HG2	1.47	0.97
34:BA:1220:G:C2	52:BW:55:LYS:HA	1.98	0.97
34:BA:1234:C:H5'	34:BA:1364:U:O2'	1.63	0.97
34:BA:1241:G:H2'	34:BA:1242:C:C6	1.98	0.97
35:BF:178:ARG:HE	35:BF:196:LEU:HD13	1.25	0.97
43:BN:7:LYS:O	43:BN:97:GLU:HB2	1.64	0.97
52:BW:9:VAL:C	52:BW:41:VAL:CG2	2.38	0.97
1:AA:993:G:H1'	19:AS:91:TYR:CE1	1.99	0.97
1:AA:996:A:H4'	18:AR:93:LYS:HG3	1.43	0.97
1:AA:1083:U:N3	1:AA:1085:A:C8	2.33	0.97
1:AA:1178:C:H2'	1:AA:1179:C:C6	1.98	0.97
1:AA:2124:G:H4'	3:AC:42:GLU:HG3	0.97	0.97
1:AA:2126:A:C5	1:AA:2163:C:H4'	1.99	0.97
1:AA:2583:G:H2'	1:AA:2584:U:O2	1.65	0.97
1:AA:2587:A:C2'	1:AA:2588:G:H5'	1.95	0.97
1:AA:2659:G:HO2'	1:AA:2663:G:N2	1.59	0.97
4:AD:63:ARG:HH11	4:AD:85:ASP:HB2	1.27	0.97
4:AD:138:VAL:HA	4:AD:165:ILE:HG21	1.44	0.97
7:AG:2:PRO:O	7:AG:5:VAL:HB	1.65	0.97
9:AI:140:GLY:CA	33:Ag:136:UNK:O	2.12	0.97
11:AK:86:PRO:HB2	11:AK:89:LYS:NZ	1.79	0.97
14:AN:94:VAL:HG23	14:AN:95:ALA:N	1.80	0.97
19:AS:20:LEU:HB2	19:AS:95:LEU:HD22	1.46	0.97
24:AX:29:GLN:O	24:AX:67:VAL:HG23	1.64	0.97
27:Aa:47:GLN:HA	27:Aa:52:THR:CB	1.95	0.97
31:Ae:8:LYS:CD	31:Ae:11:LYS:HZ2	1.77	0.97
34:BA:259:G:H2'	34:BA:260:G:C8	1.99	0.97
34:BA:1115:C:C2	34:BA:1186:G:C2	2.53	0.97
34:BA:1342:C:H1'	42:BM:124:GLN:OE1	1.65	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:36:LEU:H	41:BL:36:LEU:HD23	1.30	0.97
41:BL:45:ILE:CD1	41:BL:48:TYR:HB3	1.94	0.97
41:BL:46:LYS:HE3	41:BL:64:LYS:HG3	1.44	0.97
1:AA:343:C:C2'	1:AA:344:G:H5'	1.95	0.97
1:AA:1105:U:O3'	1:AA:1106:G:H3'	1.41	0.97
1:AA:1697:G:H5''	1:AA:1698:A:H5'	1.46	0.97
1:AA:2596:U:C2'	4:AD:242:ARG:CZ	2.42	0.97
12:AL:115:VAL:HG12	34:BA:345:C:O2	1.63	0.97
26:AZ:10:LYS:HZ3	26:AZ:12:PRO:HG3	1.28	0.97
55:CA:62:ALA:HB1	55:CA:187:TYR:HD2	1.27	0.97
1:AA:1079:C:N4	1:AA:1088:A:H5'	1.80	0.96
1:AA:1264:G:H3'	1:AA:1265:A:H5''	1.43	0.96
1:AA:2064:C:H1'	1:AA:2450:A:N6	1.79	0.96
1:AA:2103:C:H2'	1:AA:2104:G:H8	1.26	0.96
9:AI:140:GLY:HA2	33:Ag:137:UNK:HA	1.12	0.96
10:AJ:82:ALA:HA	10:AJ:99:ILE:HG21	0.98	0.96
14:AN:59:ARG:HH22	23:AW:177:PRO:HB3	1.30	0.96
17:AQ:70:VAL:HB	17:AQ:74:ARG:NH1	1.79	0.96
33:Ag:291:UNK:CA	33:Ag:342:UNK:CB	2.43	0.96
34:BA:12:U:H2'	34:BA:13:U:C5	2.00	0.96
34:BA:1226:C:C5	46:BQ:104:ARG:CB	2.48	0.96
38:BI:11:ILE:HG22	38:BI:12:LEU:H	1.29	0.96
38:BI:43:LEU:H	38:BI:65:ASN:HD22	1.03	0.96
52:BW:27:GLU:HG2	52:BW:29:ARG:H	1.29	0.96
55:CA:158:LEU:HA	55:CA:159:ASP:HB3	1.47	0.96
55:CA:172:ALA:N	55:CA:179:MET:SD	2.36	0.96
55:CA:250:LYS:O	55:CA:273:ILE:HD11	1.63	0.96
1:AA:271(B):G:H4'	1:AA:271(C):U:OP2	1.64	0.96
1:AA:559:G:H8	1:AA:559:G:H5'	1.28	0.96
1:AA:2453:A:O2'	1:AA:2454:G:H5'	1.65	0.96
1:AA:2661:G:OP1	55:CA:14:VAL:CG1	2.13	0.96
10:AJ:72:PRO:HG3	10:AJ:77:LEU:HD21	1.00	0.96
11:AK:34:LEU:C	11:AK:49:GLY:HA2	1.90	0.96
19:AS:62:LEU:HD22	19:AS:98:GLU:HA	1.44	0.96
20:AT:48:ALA:HA	20:AT:51:LEU:HD22	1.46	0.96
21:AU:85:PRO:HG2	21:AU:87:GLN:HG2	1.47	0.96
23:AW:152:ALA:HB3	23:AW:168:GLU:HA	1.43	0.96
33:Ag:290:UNK:C	33:Ag:342:UNK:O	2.12	0.96
34:BA:1115:C:C2	34:BA:1186:G:C6	2.52	0.96
34:BA:1268:A:C2	34:BA:1311:G:C1'	2.46	0.96
34:BA:1320:C:H6	52:BW:36:ARG:HG3	1.15	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:166:ASP:O	35:BF:169:LYS:HB3	1.64	0.96
37:BH:11:LEU:O	37:BH:19:LEU:HD12	1.64	0.96
41:BL:82:HIS:O	41:BL:137:VAL:HA	1.64	0.96
46:BQ:27:LYS:HB3	54:BY:7:ARG:NH1	1.77	0.96
50:BU:59:ILE:HD12	50:BU:60:ILE:H	1.28	0.96
55:CA:57:LEU:CB	55:CA:254:VAL:HG12	1.93	0.96
1:AA:575:A:O2'	1:AA:576:U:H5'	1.63	0.96
1:AA:623:G:H3'	13:AM:105:LEU:HD22	1.45	0.96
1:AA:1037:G:C6	1:AA:1119:C:N3	2.32	0.96
1:AA:1259:G:H2'	1:AA:1260:G:H8	1.30	0.96
1:AA:1906:G:N3	1:AA:1929:G:O6	1.97	0.96
1:AA:1922:G:O6	56:AA:3001:NMY:C6	2.14	0.96
1:AA:2805:G:H3'	1:AA:2807:G:H5''	1.46	0.96
1:AA:2812:G:H2'	1:AA:2813:A:C8	1.99	0.96
5:AE:8:LYS:HB3	5:AE:24:THR:HB	1.46	0.96
8:AH:153:LYS:HB2	8:AH:162:ILE:HG23	1.47	0.96
10:AJ:72:PRO:HD2	10:AJ:77:LEU:HG	1.47	0.96
14:AN:23:GLY:CA	14:AN:101:ARG:HH21	1.77	0.96
14:AN:25:ASP:HB3	14:AN:102:VAL:H	1.29	0.96
15:AO:57:ARG:NE	15:AO:62:ALA:HB2	1.80	0.96
16:AP:76:LYS:O	16:AP:80:LEU:HB2	1.66	0.96
20:AT:34:ASN:HA	20:AT:37:ARG:HE	1.30	0.96
23:AW:57:ILE:CG1	23:AW:70:LEU:HB3	1.94	0.96
34:BA:296:U:H1'	34:BA:302:G:N2	1.81	0.96
34:BA:1443:G:H4'	34:BA:1446:A:C5'	1.93	0.96
38:BI:145:LYS:O	38:BI:148:VAL:HB	1.65	0.96
45:BP:126:LYS:N	45:BP:126:LYS:HE3	1.80	0.96
46:BQ:10:PRO:HB3	46:BQ:18:ALA:CB	1.94	0.96
50:BU:59:ILE:CD1	50:BU:71:PHE:HB3	1.95	0.96
55:CA:95:VAL:CG2	55:CA:123:PRO:HA	1.95	0.96
55:CA:141:VAL:HG23	55:CA:164:TYR:OH	1.60	0.96
55:CA:250:LYS:O	55:CA:273:ILE:CG1	2.14	0.96
1:AA:469:G:N2	30:Ad:40:TRP:HZ2	1.63	0.96
1:AA:740:U:H1'	1:AA:1784:A:N7	1.80	0.96
1:AA:1351:C:H2'	1:AA:1352:U:C6	2.00	0.96
1:AA:2491:U:C6	1:AA:2491:U:C3'	2.46	0.96
1:AA:2792:G:H1	1:AA:2803:C:H42	1.04	0.96
11:AK:19:GLU:HB2	11:AK:56:ASN:HB3	1.46	0.96
14:AN:8:LYS:HZ2	14:AN:93:TYR:HD2	0.98	0.96
15:AO:20:LEU:CD2	15:AO:24:GLN:HG3	1.94	0.96
34:BA:265:G:H2'	34:BA:267:C:H5	1.27	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1077:G:H22	34:BA:1079:G:H3'	1.21	0.96
34:BA:1486:G:C5	34:BA:1487:G:H8	1.83	0.96
36:BG:142:MET:HE3	36:BG:143:GLU:HA	1.43	0.96
42:BM:79:LEU:HD13	42:BM:101:PHE:HB3	1.47	0.96
45:BP:60:LEU:HD13	45:BP:60:LEU:H	1.25	0.96
46:BQ:80:ARG:NH1	46:BQ:81:LEU:HD12	1.78	0.96
51:BV:45:SER:CB	51:BV:51:LEU:HD11	1.95	0.96
55:CA:73:VAL:CA	55:CA:74:ASP:HB3	1.95	0.96
1:AA:2:G:O6	1:AA:2902:C:N4	1.99	0.96
1:AA:68:G:H2'	1:AA:69:C:C6	1.99	0.96
1:AA:270(M):U:H4'	1:AA:270(N):G:C4'	1.95	0.96
1:AA:349:G:H2'	1:AA:350:U:C6	2.00	0.96
1:AA:1081:U:C5'	10:AJ:125:ARG:CB	2.40	0.96
1:AA:2542:A:H4'	1:AA:2543:G:OP1	1.62	0.96
2:AB:67:G:H2'	2:AB:68:C:C6	2.00	0.96
3:AC:86:ALA:HA	3:AC:150:GLY:HA2	1.45	0.96
4:AD:133:LEU:C	4:AD:136:ILE:HG13	1.89	0.96
10:AJ:33:ASN:HB3	10:AJ:63:ARG:CB	1.95	0.96
10:AJ:52:ILE:O	10:AJ:72:PRO:C	2.06	0.96
17:AQ:111:ARG:HA	17:AQ:114:LEU:HD12	1.44	0.96
23:AW:118:GLN:HB2	23:AW:144:LEU:HD22	1.44	0.96
34:BA:958:A:H1'	52:BW:55:LYS:HZ3	1.18	0.96
34:BA:1010:G:N2	34:BA:1020:U:H1'	1.80	0.96
35:BF:78:GLN:HG3	35:BF:94:ASN:HB3	1.45	0.96
41:BL:87:SER:CB	41:BL:92:ARG:HA	1.95	0.96
45:BP:83:VAL:HG22	45:BP:84:LEU:H	1.24	0.96
46:BQ:36:LYS:HD3	46:BQ:59:TYR:CD2	2.01	0.96
48:BS:77:ARG:HH12	48:BS:81:LEU:CB	1.79	0.96
49:BT:60:LEU:HA	49:BT:64:ALA:HB3	1.46	0.96
53:BX:51:GLU:HA	53:BX:54:LYS:CD	1.95	0.96
55:CA:172:ALA:H	55:CA:179:MET:CE	1.78	0.96
55:CA:237:VAL:C	55:CA:291:THR:CG2	2.38	0.96
1:AA:911:A:C8	1:AA:2264:C:H1'	2.00	0.96
1:AA:1087:G:H2'	1:AA:1089:G:H4'	1.48	0.96
1:AA:1248:G:C8	18:AR:2:PRO:HA	2.00	0.96
1:AA:1473:G:H1	1:AA:1519:G:H1'	1.30	0.96
1:AA:1784:A:O2'	1:AA:1785:A:OP2	1.82	0.96
1:AA:2330:G:H1	1:AA:2385:C:H42	1.01	0.96
1:AA:2698:U:H2'	1:AA:2699:C:C6	2.01	0.96
14:AN:7:MET:N	14:AN:70:PRO:HG2	1.80	0.96
15:AO:32:GLY:HA2	15:AO:116:LEU:HD21	0.96	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:111:GLU:HA	18:AR:114:LYS:HZ1	1.28	0.96
23:AW:127:LYS:NZ	23:AW:165:VAL:HB	1.80	0.96
26:AZ:3:ARG:NH1	26:AZ:59:VAL:HB	1.79	0.96
26:AZ:31:LEU:HD12	26:AZ:32:GLN:HE22	1.28	0.96
34:BA:1220:G:N2	52:BW:55:LYS:HB2	1.80	0.96
34:BA:1270:C:O2'	34:BA:1313:U:C4'	2.14	0.96
35:BF:217:ARG:HA	35:BF:220:ASP:OD2	1.64	0.96
55:CA:111:PHE:CZ	55:CA:361:ARG:NH1	2.34	0.96
55:CA:156:GLU:HG3	55:CA:159:ASP:HB2	1.44	0.96
1:AA:172:C:H2'	1:AA:173:G:H8	1.31	0.96
1:AA:1244:G:H5'	13:AM:9:ASN:HB3	1.44	0.96
1:AA:1314:C:OP1	1:AA:1332:G:H5'	1.66	0.96
1:AA:1966:A:H1'	1:AA:2593:U:H5'	1.45	0.96
1:AA:2392:A:C1'	13:AM:55:ARG:HH22	1.77	0.96
1:AA:2667:C:H3'	1:AA:2668:G:H8	1.30	0.96
1:AA:2848:G:N2	1:AA:2867:G:H1'	1.81	0.96
3:AC:82:LYS:HE3	3:AC:147:PHE:HD1	1.30	0.96
10:AJ:10:LEU:HD22	10:AJ:27:LEU:CD2	1.88	0.96
11:AK:111:PRO:O	11:AK:114:ARG:HB3	1.65	0.96
20:AT:38:TYR:HD2	28:Ab:39:MET:HE2	1.30	0.96
34:BA:1268:A:H2	34:BA:1311:G:H1'	1.29	0.96
37:BH:105:VAL:HG21	37:BH:121:VAL:HG22	1.47	0.96
44:BO:61:ALA:HB1	44:BO:94:ALA:CB	1.95	0.96
46:BQ:91:ARG:HB3	46:BQ:98:VAL:HA	1.44	0.96
49:BT:6:LEU:HD13	49:BT:6:LEU:H	1.29	0.96
55:CA:220:VAL:C	55:CA:274:VAL:CG2	2.34	0.96
55:CA:400:TYR:HB2	55:CA:442:VAL:HG12	1.48	0.96
1:AA:545:G:H1'	1:AA:549:G:N2	1.80	0.96
1:AA:740:U:H5'	1:AA:1784:A:OP1	1.65	0.96
1:AA:1677:A:H2'	1:AA:1678:G:H8	1.21	0.96
1:AA:2631:G:OP2	1:AA:2894:G:O2'	1.80	0.96
5:AE:49:LEU:HD11	5:AE:74:PRO:HB2	1.48	0.96
7:AG:101:ILE:O	7:AG:101:ILE:HD13	1.65	0.96
8:AH:43:VAL:HG13	8:AH:51:ARG:O	1.65	0.96
17:AQ:30:VAL:HG22	17:AQ:32:TYR:CE2	1.99	0.96
28:Ab:13:LYS:HD3	28:Ab:13:LYS:H	1.29	0.96
55:CA:10:ILE:N	55:CA:74:ASP:N	1.90	0.96
1:AA:469:G:H22	30:Ad:40:TRP:HZ2	0.97	0.96
1:AA:673:C:H4'	6:AF:82:ILE:HD12	1.46	0.96
1:AA:976:C:N4	1:AA:988:A:C2	2.34	0.96
1:AA:1272:A:OP2	1:AA:1646:C:H2'	1.66	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1300:U:H2'	1:AA:1626:G:N2	1.79	0.96
1:AA:1844:C:OP1	4:AD:255:LYS:HA	1.64	0.96
1:AA:2656:U:H1'	55:CA:132:ARG:HH21	1.24	0.96
3:AC:74:VAL:HG22	3:AC:112:ALA:HB3	1.47	0.96
5:AE:105:THR:O	5:AE:196:VAL:HG13	1.63	0.96
6:AF:89:VAL:HG12	6:AF:90:PHE:N	1.73	0.96
14:AN:16:ARG:CZ	14:AN:73:PRO:HD3	1.96	0.96
15:AO:83:ILE:HG23	15:AO:86:ARG:CZ	1.95	0.96
16:AP:49:VAL:HG11	16:AP:80:LEU:HG	1.48	0.96
27:Aa:5:ILE:CG2	27:Aa:7:PRO:HD2	1.95	0.96
30:Ad:42:LEU:HB3	30:Ad:44:PRO:HG2	1.46	0.96
34:BA:528:C:N4	45:BP:49:ASN:HD21	1.62	0.96
34:BA:1004:A:H3'	34:BA:1025:U:C4	2.01	0.96
37:BH:155:LEU:HB2	37:BH:158:ILE:HG12	1.47	0.96
45:BP:85:ILE:HD11	45:BP:99:HIS:N	1.80	0.96
46:BQ:80:ARG:HB3	52:BW:65:ASN:HD22	1.28	0.96
48:BS:5:LYS:O	48:BS:8:LYS:HB3	1.66	0.96
53:BX:11:SER:HA	53:BX:13:LEU:HD11	1.48	0.96
53:BX:49:ALA:HA	53:BX:92:LEU:HD22	1.47	0.96
55:CA:19:THR:CB	55:CA:22:VAL:HG22	1.95	0.96
55:CA:220:VAL:HB	55:CA:274:VAL:CG2	1.95	0.96
55:CA:380:LEU:HD12	55:CA:580:VAL:HG21	1.48	0.96
1:AA:470:A:C2	1:AA:471:A:H1'	2.01	0.96
1:AA:535:C:H4'	18:AR:53:ARG:HD2	1.47	0.96
1:AA:612:G:H4'	1:AA:616:A:H61	1.15	0.96
1:AA:878:A:N3	1:AA:879:G:C8	2.33	0.96
1:AA:1046:A:C6	9:AI:7:VAL:N	2.04	0.96
1:AA:1270:C:H4'	1:AA:1271:G:C5'	1.96	0.96
1:AA:1910:G:N3	1:AA:1921:G:C4	2.22	0.96
1:AA:2063:C:H1'	1:AA:2451:A:C2	2.01	0.96
1:AA:2212:A:H2'	1:AA:2212:A:N3	1.79	0.96
5:AE:45:THR:CB	5:AE:81:ILE:HA	1.95	0.96
10:AJ:20:ALA:HB3	10:AJ:21:PRO:HD3	1.47	0.96
14:AN:106:VAL:HG22	14:AN:107:ALA:N	1.79	0.96
15:AO:45:ARG:HB2	15:AO:95:THR:HG21	1.48	0.96
17:AQ:64:ARG:HA	17:AQ:64:ARG:HH11	0.80	0.96
23:AW:111:VAL:HG22	23:AW:117:LEU:HG	1.48	0.96
29:Ac:19:ARG:C	29:Ac:43:CYS:HG	1.74	0.96
34:BA:1129:C:P	42:BM:16:ARG:HH22	1.88	0.96
34:BA:1143:G:H2'	34:BA:1144:G:H8	1.27	0.96
34:BA:1425:U:H2'	34:BA:1426:C:H6	1.31	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:184:VAL:HB	35:BF:198:ASP:OD1	1.65	0.96
36:BG:59:ARG:HE	36:BG:64:VAL:HA	1.26	0.96
40:BK:87:VAL:HG13	40:BK:152:ALA:HA	1.44	0.96
46:BQ:10:PRO:CG	46:BQ:45:VAL:HG11	1.96	0.96
55:CA:15:ASP:CG	55:CA:16:HIS:CE1	2.43	0.96
55:CA:220:VAL:O	55:CA:274:VAL:HB	1.65	0.96
55:CA:252:GLY:CA	55:CA:261:GLU:HA	1.96	0.96
1:AA:3:U:C4	1:AA:2900:A:N1	2.34	0.95
1:AA:270(X):G:C2'	1:AA:270(Y):G:H5'	1.96	0.95
1:AA:451:C:N4	1:AA:453:C:H3'	1.80	0.95
1:AA:636:G:N2	13:AM:75:ILE:HG23	1.81	0.95
1:AA:1037:G:N1	1:AA:1119:C:C2	2.35	0.95
1:AA:1669:A:H5''	1:AA:2550:G:OP1	1.65	0.95
1:AA:2124:G:H4'	3:AC:42:GLU:CG	1.94	0.95
1:AA:2471:C:H4'	55:CA:529:ARG:NH2	1.81	0.95
1:AA:2471:C:H4'	55:CA:529:ARG:HH21	1.31	0.95
4:AD:169:GLU:CB	4:AD:184:LYS:HZ1	1.79	0.95
6:AF:65:TRP:NE1	6:AF:73:ALA:HB3	1.81	0.95
8:AH:120:GLY:HA3	8:AH:136:ILE:HG22	1.48	0.95
15:AO:88:ARG:HB2	15:AO:88:ARG:NH1	1.81	0.95
15:AO:103:ARG:HB2	15:AO:108:GLY:C	1.90	0.95
29:Ac:25:LYS:HE3	31:Ae:35:GLN:O	1.66	0.95
30:Ad:32:LYS:HA	30:Ad:35:ARG:NH1	1.81	0.95
34:BA:1317:C:N3	34:BA:1318:A:N3	2.06	0.95
34:BA:1490:C:C5	56:BA:1601:NMY:O17	2.17	0.95
41:BL:12:ARG:NH1	41:BL:27:PRO:HD3	1.80	0.95
55:CA:252:GLY:HA2	55:CA:261:GLU:CA	1.94	0.95
1:AA:442:G:H4'	6:AF:46:ARG:HG3	1.47	0.95
1:AA:484:C:H2'	1:AA:485:C:H6	1.29	0.95
1:AA:1047:G:H2'	1:AA:1110:G:N9	1.39	0.95
1:AA:1543:A:OP2	1:AA:1544:C:H6	1.49	0.95
2:AB:102:G:H2'	23:AW:73:GLN:NE2	1.81	0.95
3:AC:162:GLU:C	3:AC:163:PHE:HD1	1.74	0.95
5:AE:133:LYS:NZ	5:AE:137:HIS:HB3	1.81	0.95
7:AG:56:ALA:HA	7:AG:59:GLU:OE2	1.65	0.95
16:AP:25:ARG:HA	16:AP:87:PHE:O	1.64	0.95
19:AS:40:LEU:HD23	19:AS:51:VAL:HG12	1.45	0.95
27:Aa:18:CYS:N	27:Aa:33:VAL:HB	1.82	0.95
34:BA:101:A:H2'	34:BA:102:G:H8	1.30	0.95
34:BA:358:U:H1'	55:CA:217:TYR:CZ	2.00	0.95
34:BA:625:G:OP1	49:BT:9:PHE:HB3	1.65	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:148:PHE:O	55:CA:152:ASP:N	1.99	0.95
1:AA:91:A:H2'	1:AA:91:A:N3	1.81	0.95
1:AA:763:G:O2'	1:AA:764:A:H5''	1.65	0.95
1:AA:1206:G:H3'	1:AA:1206:G:H8	1.28	0.95
1:AA:2440:C:H5''	1:AA:2587:A:H4'	1.48	0.95
1:AA:2607:G:H2'	1:AA:2608:G:H5'	1.48	0.95
1:AA:2670:A:C5'	5:AE:206:LYS:HZ3	1.76	0.95
5:AE:49:LEU:HA	5:AE:76:ARG:O	1.65	0.95
5:AE:64:LYS:HA	5:AE:67:PHE:HB2	1.46	0.95
5:AE:110:GLY:HA2	5:AE:161:GLY:O	1.66	0.95
18:AR:53:ARG:HB2	18:AR:53:ARG:NH1	1.81	0.95
18:AR:59:ARG:O	18:AR:62:ILE:HB	1.65	0.95
34:BA:1115:C:C1'	34:BA:1186:G:N2	2.29	0.95
34:BA:1455:G:C4'	53:BX:31:SER:OG	2.12	0.95
39:BJ:75:LEU:HD22	39:BJ:79:LEU:HD21	1.47	0.95
40:BK:76:ARG:HB2	40:BK:156:TRP:NE1	1.81	0.95
41:BL:18:ARG:HA	41:BL:18:ARG:NH1	1.82	0.95
45:BP:60:LEU:HD13	45:BP:60:LEU:N	1.80	0.95
46:BQ:22:ILE:HB	46:BQ:25:ILE:HD12	0.96	0.95
52:BW:9:VAL:CG1	52:BW:41:VAL:O	2.13	0.95
55:CA:397:GLN:HG2	55:CA:472:TYR:O	1.66	0.95
1:AA:783:A:H4'	1:AA:2588:G:O3'	1.66	0.95
1:AA:1080:C:C5	10:AJ:132:ARG:NH2	2.33	0.95
1:AA:1312:U:H3'	1:AA:1313:U:C6	2.01	0.95
1:AA:1786:A:H4'	1:AA:1938:A:H61	1.27	0.95
1:AA:2789:C:O2'	1:AA:2791:C:H5'	1.65	0.95
2:AB:43:C:O2	7:AG:95:ARG:HB2	1.66	0.95
3:AC:162:GLU:HG2	3:AC:163:PHE:H	1.30	0.95
34:BA:1319:A:C4'	52:BW:37:ARG:HA	1.96	0.95
35:BF:187:LEU:HD22	35:BF:188:ALA:H	1.31	0.95
36:BG:14:ILE:HG21	36:BG:179:ARG:HA	1.49	0.95
40:BK:75:VAL:HA	40:BK:89:MET:HE1	1.46	0.95
46:BQ:86:CYS:C	52:BW:73:GLU:O	2.08	0.95
1:AA:107:C:H4'	1:AA:293:U:H1'	1.49	0.95
1:AA:351:G:H1'	1:AA:352:G:N7	1.82	0.95
1:AA:566:U:H5''	19:AS:82:ARG:NH1	1.80	0.95
1:AA:917:A:H3'	1:AA:917:A:C8	2.02	0.95
1:AA:917:A:C3'	1:AA:918:A:H5''	1.96	0.95
1:AA:995:C:H1'	18:AR:57:PHE:CE2	2.01	0.95
1:AA:1966:A:N3	1:AA:2593:U:H5'	1.81	0.95
1:AA:2132:U:H3'	1:AA:2133:G:H5'	1.48	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2615:U:H1'	28:Ab:7:PRO:HB3	1.45	0.95
3:AC:82:LYS:HD2	3:AC:116:THR:HG21	1.47	0.95
5:AE:30:PRO:HB2	5:AE:48:GLN:HB2	1.45	0.95
5:AE:120:TRP:CZ2	5:AE:122:PHE:HB2	2.02	0.95
11:AK:109:LYS:NZ	11:AK:110:GLY:H	1.63	0.95
13:AM:107:LYS:HZ1	13:AM:110:TYR:HB3	1.17	0.95
14:AN:99:PRO:O	14:AN:101:ARG:HD3	1.66	0.95
14:AN:112:GLU:O	14:AN:115:MET:HB2	1.65	0.95
14:AN:134:ARG:CZ	14:AN:137:TYR:H	1.79	0.95
15:AO:99:LYS:H	15:AO:99:LYS:CD	1.74	0.95
24:AX:38:VAL:O	24:AX:59:LEU:HB2	1.65	0.95
33:Ag:11:UNK:CB	33:Ag:152:UNK:CB	2.43	0.95
34:BA:1433:A:N6	34:BA:1467:G:H21	1.64	0.95
35:BF:47:THR:O	35:BF:51:LEU:HG	1.64	0.95
40:BK:49:ILE:HG21	40:BK:121:ALA:HB1	1.48	0.95
41:BL:90:GLY:O	45:BP:7:ILE:HG21	1.65	0.95
42:BM:55:ALA:CB	42:BM:58:HIS:HE1	1.78	0.95
44:BO:65:ALA:HB1	44:BO:98:LEU:HD23	1.48	0.95
46:BQ:8:GLU:CG	46:BQ:22:ILE:CG1	2.35	0.95
1:AA:1695:G:H3'	1:AA:1695:G:N3	1.80	0.95
1:AA:2528:U:O2'	1:AA:2529:G:H3'	1.66	0.95
1:AA:2757:A:H2'	1:AA:2758:A:H5'	1.46	0.95
12:AL:39:ILE:CG1	12:AL:59:LYS:HZ1	1.79	0.95
20:AT:17:VAL:HG23	20:AT:76:VAL:HG11	1.48	0.95
34:BA:186(A):C:H1'	53:BX:104:LEU:CD2	1.96	0.95
34:BA:265:G:O2'	34:BA:266:G:H5'	1.65	0.95
34:BA:345:C:H4'	34:BA:346:G:O5'	1.66	0.95
34:BA:1221:G:H5'	52:BW:52:TYR:C	1.89	0.95
43:BN:79:ARG:HD3	43:BN:79:ARG:C	1.90	0.95
55:CA:40:GLU:HB2	55:CA:41:ARG:HB2	1.49	0.95
55:CA:114:LYS:HA	55:CA:117:PHE:HD2	1.25	0.95
55:CA:220:VAL:HG21	55:CA:281:GLU:OE2	1.67	0.95
55:CA:231:VAL:HG12	55:CA:273:ILE:HD13	1.47	0.95
1:AA:308:G:N2	1:AA:309:G:H1'	1.80	0.95
1:AA:972:G:OP1	1:AA:974(A):C:H5'	1.67	0.95
2:AB:24:G:O6	2:AB:56:G:H2'	1.64	0.95
4:AD:252:TRP:H	4:AD:255:LYS:HZ1	1.04	0.95
12:AL:1:MET:HB3	12:AL:66:LYS:HB3	1.49	0.95
13:AM:107:LYS:HE2	13:AM:110:TYR:CD2	2.02	0.95
15:AO:58:GLY:HA2	15:AO:80:PHE:CE2	2.00	0.95
17:AQ:18:ASP:OD1	17:AQ:81:PRO:HG3	1.67	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:35:LYS:HG3	17:AQ:84:GLN:O	1.67	0.95
18:AR:55:ARG:CG	18:AR:58:ARG:HH21	1.79	0.95
20:AT:38:TYR:CD2	28:Ab:39:MET:HE2	2.02	0.95
33:Ag:290:UNK:CA	33:Ag:342:UNK:O	2.13	0.95
36:BG:116:VAL:O	36:BG:119:ARG:HB3	1.67	0.95
40:BK:29:LYS:HZ3	40:BK:102:ARG:HB2	1.31	0.95
40:BK:74:GLU:HG2	40:BK:75:VAL:H	1.30	0.95
41:BL:87:SER:HB2	41:BL:92:ARG:CA	1.97	0.95
51:BV:41:LYS:O	51:BV:44:LEU:HG	1.63	0.95
55:CA:207:MET:CE	55:CA:224:GLY:CA	2.45	0.95
55:CA:310:PHE:O	55:CA:383:SER:C	2.10	0.95
55:CA:370:ILE:HG22	55:CA:565:LEU:HD22	1.47	0.95
1:AA:862:G:C2	1:AA:863:A:H1'	2.01	0.95
1:AA:1006:C:H1'	11:AK:106:MET:SD	2.07	0.95
1:AA:1453:A:H61	15:AO:63:ARG:HH21	0.98	0.95
1:AA:1710:C:H2'	1:AA:1711:C:H6	1.32	0.95
1:AA:1819:A:H5''	4:AD:178:PRO:CG	1.96	0.95
1:AA:2305:A:H8	1:AA:2306:C:H5''	1.32	0.95
1:AA:2320:A:H1'	1:AA:2333:A:N6	1.81	0.95
4:AD:95:LEU:HD22	4:AD:96:HIS:H	1.31	0.95
17:AQ:70:VAL:HB	17:AQ:74:ARG:HH11	1.30	0.95
18:AR:97:ASP:C	18:AR:101:ARG:HE	1.75	0.95
19:AS:5:VAL:H	19:AS:12:TYR:HD2	0.96	0.95
24:AX:46:LYS:HG3	24:AX:78:TYR:CZ	2.01	0.95
29:Ac:37:ARG:O	29:Ac:38:LYS:HB2	1.65	0.95
34:BA:778:G:O2'	34:BA:779:C:H5'	1.67	0.95
34:BA:944:G:H21	34:BA:1339:A:H62	1.01	0.95
37:BH:147:ALA:HB2	37:BH:182:LYS:HA	1.46	0.95
48:BS:70:LEU:HG	48:BS:78:TYR:CD1	2.02	0.95
55:CA:54:ILE:CD1	55:CA:211:GLN:HE22	1.78	0.95
1:AA:899:A:C2	1:AA:900:A:N1	2.35	0.95
1:AA:1105:U:C2'	1:AA:1107:G:C8	2.47	0.95
1:AA:1725:G:N2	1:AA:1726:G:H1'	1.82	0.95
3:AC:75:LEU:HD23	3:AC:77:ILE:HD11	1.49	0.95
4:AD:37:LEU:HD11	4:AD:63:ARG:C	1.90	0.95
5:AE:146:THR:HB	5:AE:147:PRO:CD	1.96	0.95
7:AG:39:ILE:HG23	7:AG:157:ILE:HB	1.47	0.95
10:AJ:19:PRO:CG	10:AJ:36:GLU:CA	2.45	0.95
15:AO:14:SER:O	15:AO:17:ARG:HG2	1.67	0.95
23:AW:39:VAL:HG13	23:AW:44:PHE:CD2	2.01	0.95
27:Aa:31:ILE:HD13	27:Aa:31:ILE:H	1.29	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:50:LEU:CD2	31:Ae:51:ALA:H	1.78	0.95
34:BA:416:G:H2'	34:BA:417:C:C6	2.01	0.95
34:BA:958:A:C1'	52:BW:55:LYS:NZ	2.29	0.95
36:BG:12:LEU:HD21	47:BR:57:ARG:HG3	1.48	0.95
37:BH:82:ALA:CB	37:BH:89:THR:HG23	1.97	0.95
41:BL:98:LYS:HZ2	41:BL:98:LYS:N	1.65	0.95
55:CA:15:ASP:HB3	55:CA:16:HIS:ND1	1.76	0.95
55:CA:165:ALA:HA	55:CA:171:ILE:HG22	1.45	0.95
1:AA:1038:C:O3'	1:AA:1039:G:H3'	1.66	0.95
1:AA:1996:C:H2'	1:AA:1997:G:C5'	1.97	0.95
1:AA:2576:G:C4'	1:AA:2577:A:H5'	1.96	0.95
4:AD:134:ARG:HD2	4:AD:188:GLU:HA	1.46	0.95
6:AF:130:ALA:HB3	6:AF:142:TRP:CB	1.97	0.95
18:AR:17:ILE:HA	18:AR:20:LEU:HG	0.99	0.95
18:AR:93:LYS:H	19:AS:10:LYS:HZ2	0.96	0.95
19:AS:40:LEU:HD23	19:AS:51:VAL:O	1.66	0.95
26:AZ:20:LYS:HA	26:AZ:23:LEU:HD22	1.46	0.95
34:BA:279:A:H5'	34:BA:280:C:H3'	1.46	0.95
34:BA:1204:A:C2	36:BG:195:VAL:HG21	2.02	0.95
34:BA:1319:A:H4'	52:BW:37:ARG:CA	1.86	0.95
34:BA:1486:G:O6	34:BA:1487:G:N7	1.95	0.95
35:BF:42:ILE:CD1	35:BF:202:PRO:HB2	1.97	0.95
39:BJ:23:LYS:HA	39:BJ:26:ILE:CD1	1.97	0.95
42:BM:55:ALA:HB3	42:BM:58:HIS:HE1	1.30	0.95
44:BO:121:PRO:HG2	44:BO:126:ARG:HG2	1.48	0.95
55:CA:61:THR:CG2	55:CA:65:LYS:HB3	1.97	0.95
55:CA:164:TYR:CG	55:CA:175:ASP:OD1	2.19	0.95
1:AA:674:G:H5''	6:AF:74:ARG:NH2	1.81	0.94
1:AA:885:C:H3'	1:AA:886:C:C5'	1.97	0.94
1:AA:893:C:H2'	1:AA:894:C:C6	2.02	0.94
1:AA:1046:A:C4	9:AI:11:ALA:CB	2.50	0.94
1:AA:1773:A:N6	1:AA:1829:A:H1'	1.80	0.94
1:AA:1967:C:N4	1:AA:1968:G:N2	2.14	0.94
1:AA:2121:G:H1'	3:AC:167:LYS:NZ	1.82	0.94
10:AJ:27:LEU:CD2	10:AJ:58:THR:N	2.29	0.94
11:AK:15:LEU:HD21	11:AK:137:LYS:HA	1.45	0.94
18:AR:74:LEU:HD13	18:AR:78:THR:HG21	1.48	0.94
24:AX:68:GLU:CB	24:AX:80:HIS:O	2.15	0.94
32:Af:10:ILE:HD13	32:Af:32:HIS:HD2	1.32	0.94
34:BA:1180:A:OP1	42:BM:102:LEU:HD12	1.65	0.94
51:BV:43:PHE:O	51:BV:51:LEU:HD13	1.64	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:390:ARG:HB3	55:CA:391:GLU:HB2	1.46	0.94
1:AA:807:U:O2'	1:AA:808:G:H5'	1.67	0.94
1:AA:847:U:H3	1:AA:933:A:H2	1.13	0.94
1:AA:895:U:H4'	1:AA:896:A:H5'	1.49	0.94
1:AA:1309:G:O2'	1:AA:1310:G:H5'	1.65	0.94
1:AA:1417:C:H42	1:AA:1581:G:H1	1.00	0.94
1:AA:1809:A:H2'	1:AA:1810:A:H5'	1.49	0.94
1:AA:2210:G:C5	4:AD:150:LYS:HA	2.01	0.94
1:AA:2532:G:C2'	1:AA:2657:A:N1	2.16	0.94
4:AD:27:THR:HG22	4:AD:29:PRO:CD	1.96	0.94
10:AJ:23:VAL:HG12	10:AJ:37:PHE:HD2	1.31	0.94
12:AL:24:VAL:HA	12:AL:39:ILE:CG2	1.97	0.94
12:AL:116:SER:CB	34:BA:343:U:H3	1.81	0.94
14:AN:109:VAL:HG11	14:AN:114:ALA:CB	1.95	0.94
14:AN:134:ARG:NH2	14:AN:137:TYR:H	1.64	0.94
31:Ae:26:LYS:HA	31:Ae:47:LYS:HG2	1.45	0.94
33:Ag:7:UNK:HA	33:Ag:144:UNK:O	1.67	0.94
34:BA:1125:U:H5''	43:BN:38:ILE:CD1	1.90	0.94
34:BA:1126:U:H1'	34:BA:1280:A:N6	1.82	0.94
34:BA:1455:G:C5'	53:BX:31:SER:OG	2.14	0.94
45:BP:59:ARG:HA	45:BP:64:TYR:O	1.68	0.94
49:BT:75:ARG:CG	49:BT:80:PHE:HB3	1.97	0.94
55:CA:377:GLY:HA2	55:CA:582:PRO:CB	1.96	0.94
1:AA:279:C:N4	1:AA:359:A:H1'	1.82	0.94
1:AA:470:A:H4'	1:AA:470:A:OP1	1.68	0.94
1:AA:902:C:H2'	1:AA:903:C:C2	2.01	0.94
1:AA:1014:U:O2'	1:AA:1015:G:H5'	1.66	0.94
1:AA:1059:G:O2'	10:AJ:73:PRO:C	2.08	0.94
1:AA:1779:U:O2'	1:AA:1783:A:N6	2.00	0.94
1:AA:1818:U:H5''	4:AD:158:ALA:HB2	1.45	0.94
1:AA:1919:A:O2'	1:AA:1920:C:OP1	1.86	0.94
1:AA:2557:G:H2'	1:AA:2558:C:C6	2.03	0.94
1:AA:2812:G:H2'	1:AA:2813:A:H8	1.26	0.94
3:AC:108:MET:SD	3:AC:131:LEU:HD23	2.07	0.94
6:AF:183:VAL:O	6:AF:186:ILE:HB	1.65	0.94
11:AK:110:GLY:O	11:AK:114:ARG:HB2	1.67	0.94
14:AN:12:GLN:NE2	14:AN:13:GLN:HG2	1.80	0.94
17:AQ:110:ILE:HD13	34:BA:1431:C:OP1	1.68	0.94
26:AZ:4:LEU:HB3	26:AZ:37:LEU:CD2	1.95	0.94
26:AZ:18:ASP:O	26:AZ:21:ALA:HB3	1.66	0.94
34:BA:306:G:H2'	34:BA:307:C:C6	2.03	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:923:A:H2'	34:BA:924:C:C6	2.01	0.94
34:BA:1307:U:OP1	46:BQ:101:GLN:OE1	1.85	0.94
34:BA:1318:A:C2'	52:BW:37:ARG:CA	2.36	0.94
34:BA:1413:A:N1	34:BA:1487:G:C2	2.34	0.94
35:BF:23:ARG:HH11	35:BF:24:TRP:N	1.65	0.94
37:BH:59:ARG:C	37:BH:63:LYS:HZ2	1.75	0.94
41:BL:64:LYS:HD3	41:BL:79:VAL:HG11	1.47	0.94
41:BL:68:ARG:HD3	41:BL:69:ARG:H	1.26	0.94
42:BM:116:LYS:HB3	42:BM:122:ALA:HA	1.46	0.94
46:BQ:14:ARG:HD3	46:BQ:41:PRO:HB3	1.48	0.94
55:CA:379:GLU:CG	55:CA:581:THR:HA	1.96	0.94
55:CA:411:HIS:CD2	55:CA:459:THR:HA	2.03	0.94
1:AA:221:A:H61	1:AA:265:A:N6	1.63	0.94
1:AA:1799:G:H3'	4:AD:183:ARG:NH2	1.82	0.94
1:AA:1809:A:H4'	1:AA:1809:A:OP1	1.66	0.94
1:AA:1809:A:H61	27:Aa:3:GLU:HG3	1.31	0.94
1:AA:2306:C:H4'	7:AG:153:ARG:NH1	1.83	0.94
1:AA:2573:C:OP1	1:AA:2574:G:H5''	1.66	0.94
5:AE:53:PRO:HG3	5:AE:75:VAL:CG2	1.98	0.94
6:AF:11:VAL:HG13	6:AF:127:GLU:HB2	1.49	0.94
9:AI:54:ALA:CA	9:AI:83:TYR:O	2.15	0.94
10:AJ:78:ILE:CG2	10:AJ:122:ALA:O	2.16	0.94
12:AL:10:VAL:HG13	12:AL:11:ALA:N	1.81	0.94
12:AL:64:ARG:HG3	12:AL:64:ARG:HH11	1.28	0.94
19:AS:17:GLY:HA3	19:AS:19:LYS:HZ2	1.30	0.94
23:AW:39:VAL:HG22	23:AW:44:PHE:CE2	2.01	0.94
34:BA:1080:A:H5'	38:BI:14:ARG:HH21	1.23	0.94
34:BA:1204:A:H2	36:BG:195:VAL:HG21	1.32	0.94
34:BA:1221:G:O3'	52:BW:53:ASN:O	1.60	0.94
37:BH:47:ARG:NH1	37:BH:47:ARG:HB2	1.81	0.94
43:BN:15:THR:OG1	43:BN:94:VAL:HG23	1.66	0.94
45:BP:39:VAL:HB	45:BP:57:LYS:HB2	1.47	0.94
46:BQ:10:PRO:CG	46:BQ:45:VAL:CG1	2.46	0.94
55:CA:13:HIS:CB	55:CA:108:GLN:CB	2.43	0.94
55:CA:240:ILE:HG22	55:CA:241:ASP:H	1.30	0.94
1:AA:324:A:H62	1:AA:339:U:H1'	1.32	0.94
1:AA:447:A:H1'	1:AA:449:A:H61	1.32	0.94
1:AA:687:C:O2	1:AA:787:U:O3'	1.85	0.94
1:AA:1565:C:N3	1:AA:1567:A:H1'	1.81	0.94
1:AA:1689:A:N6	1:AA:1698:A:C2	2.35	0.94
1:AA:1809:A:H5''	1:AA:1810:A:C2	2.01	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1918:A:H2'	34:BA:1408:A:H5''	1.46	0.94
1:AA:2807:G:N3	1:AA:2808:U:C5	2.35	0.94
4:AD:176:ARG:HH22	4:AD:270:ILE:HD11	1.29	0.94
8:AH:94:TYR:H	8:AH:95:ARG:NH1	1.65	0.94
11:AK:23:LEU:HD11	11:AK:63:THR:N	1.82	0.94
18:AR:49:HIS:CD2	18:AR:52:ARG:HH22	1.85	0.94
36:BG:67:THR:HG22	36:BG:104:GLN:HG2	1.49	0.94
37:BH:57:ARG:HB3	37:BH:206:PHE:HB2	1.47	0.94
38:BI:100:VAL:HG11	38:BI:107:ARG:HG3	1.48	0.94
39:BJ:33:TYR:CD1	39:BJ:75:LEU:HG	2.01	0.94
40:BK:86:GLN:HB2	40:BK:148:ASN:ND2	1.81	0.94
40:BK:145:ALA:O	40:BK:146:GLU:HB3	1.66	0.94
42:BM:48:GLU:HB3	42:BM:78:LYS:HZ3	1.31	0.94
53:BX:87:LYS:HA	53:BX:87:LYS:HE3	1.46	0.94
1:AA:234:C:N4	1:AA:430:G:H22	1.65	0.94
1:AA:447:A:H1'	1:AA:449:A:N6	1.82	0.94
1:AA:479:A:H1'	1:AA:480:A:C8	2.03	0.94
1:AA:954:G:H2'	1:AA:955:C:O4'	1.67	0.94
1:AA:1703:G:O2'	34:BA:1429:C:C4'	2.14	0.94
1:AA:1813:G:H4'	4:AD:46:GLN:HB2	1.50	0.94
1:AA:1939:U:H1'	1:AA:2592:G:O4'	1.66	0.94
1:AA:2659:G:H5''	1:AA:2660:A:OP2	1.67	0.94
3:AC:41:VAL:HG22	3:AC:216:THR:HG22	1.48	0.94
7:AG:55:LYS:HD3	7:AG:147:ASP:O	1.68	0.94
7:AG:105:LYS:O	7:AG:109:VAL:HG22	1.67	0.94
10:AJ:72:PRO:HG3	10:AJ:77:LEU:HD22	0.95	0.94
10:AJ:98:ARG:HH12	10:AJ:101:TRP:CD1	1.84	0.94
11:AK:45:ASN:O	11:AK:46:VAL:HG23	1.67	0.94
17:AQ:115:ARG:CD	34:BA:1463:C:OP1	2.16	0.94
27:Aa:7:PRO:HD3	27:Aa:56:VAL:CG1	1.96	0.94
34:BA:194:C:H2'	34:BA:195:A:H5''	1.47	0.94
34:BA:1308:U:C3'	46:BQ:92:HIS:NE2	2.19	0.94
34:BA:1317:C:O2'	34:BA:1318:A:H5'	0.90	0.94
36:BG:189:ALA:CB	36:BG:196:LEU:HG	1.96	0.94
46:BQ:87:TYR:OH	52:BW:75:ALA:O	1.85	0.94
53:BX:13:LEU:HD12	53:BX:13:LEU:H	1.29	0.94
55:CA:205:PHE:CZ	55:CA:231:VAL:CG2	2.51	0.94
1:AA:60:G:H21	1:AA:74:A:H4'	1.30	0.94
1:AA:289:A:H2'	1:AA:351:G:N1	1.82	0.94
1:AA:675:A:H4'	6:AF:67:GLN:NE2	1.82	0.94
1:AA:687:C:H1'	1:AA:788:A:H5'	1.49	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2652:C:C6	1:AA:2669:G:N2	2.19	0.94
5:AE:8:LYS:CD	5:AE:9:VAL:HG22	1.96	0.94
6:AF:197:ASP:CA	6:AF:200:GLU:HG3	1.98	0.94
7:AG:57:ALA:HA	7:AG:68:PRO:CD	1.98	0.94
9:AI:141:VAL:HA	33:Ag:134:UNK:HA	1.49	0.94
10:AJ:17:ALA:HB1	10:AJ:42:ASN:H	1.31	0.94
12:AL:25:LEU:HD22	12:AL:38:VAL:HG23	1.47	0.94
14:AN:16:ARG:HG3	14:AN:72:LYS:HD2	1.47	0.94
14:AN:109:VAL:CG1	14:AN:114:ALA:HB2	1.97	0.94
29:Ac:19:ARG:HH12	29:Ac:41:PRO:HG3	1.21	0.94
29:Ac:26:ASN:O	29:Ac:27:LYS:HB2	1.63	0.94
34:BA:7:G:H1'	34:BA:298:A:C8	2.02	0.94
34:BA:858:G:H22	34:BA:869:G:H3'	1.32	0.94
34:BA:1151:A:N6	34:BA:1152:A:C6	2.35	0.94
34:BA:1162:C:H2'	34:BA:1163:C:C6	2.02	0.94
34:BA:1309:G:C2	34:BA:1328:C:N3	2.35	0.94
37:BH:173:TRP:NE1	37:BH:189:PRO:HB3	1.83	0.94
1:AA:674:G:H5''	6:AF:74:ARG:HH21	1.31	0.94
1:AA:932:G:H2'	1:AA:933:A:C8	2.02	0.94
1:AA:1026:U:O2	1:AA:1026:U:H2'	1.63	0.94
1:AA:1107:G:C2'	1:AA:1108:U:H5'	1.98	0.94
1:AA:1281:G:H2'	1:AA:1282:U:H6	1.33	0.94
1:AA:1507:A:H2'	1:AA:1507:A:N3	1.80	0.94
1:AA:1788:C:C2'	4:AD:222:ARG:HH21	1.79	0.94
1:AA:1860:G:H5''	3:AC:206:GLY:HA3	1.48	0.94
1:AA:1931:U:C6	1:AA:1932:A:C8	2.54	0.94
1:AA:2083:G:H2'	1:AA:2084:C:C6	2.03	0.94
1:AA:2553:G:N7	1:AA:2583:G:H4'	1.83	0.94
1:AA:2815:C:O2'	1:AA:2816:C:H5'	1.67	0.94
3:AC:64:LEU:HD23	3:AC:191:ALA:HB3	1.47	0.94
4:AD:226:MET:HE1	4:AD:237:GLU:H	1.33	0.94
5:AE:27:LEU:HD11	5:AE:30:PRO:HD3	1.46	0.94
6:AF:131:GLY:HA2	6:AF:138:GLU:HB2	1.49	0.94
7:AG:16:ARG:HG3	7:AG:16:ARG:HH11	1.33	0.94
8:AH:18:GLU:OE2	8:AH:25:LYS:HB3	1.66	0.94
13:AM:72:PRO:HB2	13:AM:111:ARG:CB	1.98	0.94
16:AP:57:LYS:HZ2	16:AP:65:VAL:CA	1.80	0.94
16:AP:57:LYS:HZ2	16:AP:65:VAL:HA	1.31	0.94
18:AR:89:GLU:HB3	19:AS:51:VAL:C	1.93	0.94
28:Ab:58:LEU:HD22	28:Ab:59:GLU:N	1.83	0.94
30:Ad:34:ARG:HH22	30:Ad:42:LEU:HA	1.30	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Af:19:ARG:O	32:Af:22:ARG:CB	2.16	0.94
34:BA:329:A:H4'	34:BA:330:C:OP1	1.65	0.94
34:BA:376:G:H2'	34:BA:377:G:H8	1.33	0.94
34:BA:564:C:C4	50:BU:31:LEU:HD11	2.02	0.94
34:BA:1261:A:N6	34:BA:1274:G:H1'	1.83	0.94
34:BA:1302:U:C5	46:BQ:13:LYS:NZ	2.36	0.94
34:BA:1309:G:C2'	34:BA:1329:A:C4	2.30	0.94
34:BA:1321:C:O2	52:BW:36:ARG:NH1	2.00	0.94
35:BF:17:PHE:HD1	35:BF:18:GLY:N	1.66	0.94
48:BS:70:LEU:HG	48:BS:78:TYR:CG	2.02	0.94
51:BV:79:LEU:HD13	51:BV:79:LEU:O	1.67	0.94
55:CA:11:ILE:HD12	55:CA:11:ILE:H	1.32	0.94
55:CA:160:PHE:N	55:CA:161:ALA:HB3	1.83	0.94
55:CA:230:LYS:HG3	55:CA:266:ASP:CA	1.95	0.94
55:CA:310:PHE:N	55:CA:385:PRO:CD	2.11	0.94
55:CA:324:LYS:HG3	55:CA:325:PHE:CE1	2.03	0.94
55:CA:468:THR:HG23	55:CA:469:PHE:H	1.31	0.94
1:AA:1005:C:O2	11:AK:28:THR:HB	1.68	0.94
1:AA:1059:G:H22	10:AJ:130:SER:HA	1.15	0.94
1:AA:1660:C:N4	1:AA:2001:A:H61	1.65	0.94
1:AA:1856:G:H2'	1:AA:1857:G:H5'	1.50	0.94
1:AA:1993:U:H2'	1:AA:1994:C:C6	2.02	0.94
1:AA:2447:G:N7	1:AA:2500:U:C3'	2.25	0.94
1:AA:2656:U:H1'	55:CA:132:ARG:HH22	1.19	0.94
12:AL:34:THR:O	12:AL:61:VAL:HG11	1.68	0.94
16:AP:74:ALA:HB1	16:AP:108:GLY:N	1.81	0.94
22:AV:46:LYS:NZ	22:AV:52:SER:HB2	1.82	0.94
29:Ac:19:ARG:NH1	29:Ac:43:CYS:HB2	1.83	0.94
34:BA:375:U:O3'	49:BT:6:LEU:HD21	1.67	0.94
34:BA:665:A:H2'	34:BA:725:G:H22	1.22	0.94
34:BA:1227:A:O5'	52:BW:80:TYR:OH	1.80	0.94
34:BA:1320:C:O3'	52:BW:73:GLU:HB3	1.67	0.94
55:CA:26:LEU:C	55:CA:28:GLN:HB3	1.93	0.94
55:CA:382:VAL:HG23	55:CA:578:VAL:HG21	1.50	0.94
1:AA:1425:G:H2'	1:AA:1426:G:C8	2.02	0.94
1:AA:2371:G:H5'	29:Ac:45:LYS:HB3	1.47	0.94
1:AA:2531:A:C4	1:AA:2658:C:H1'	2.03	0.94
5:AE:2:LYS:NZ	5:AE:83:ASP:HB2	1.82	0.94
8:AH:139:GLN:HG3	8:AH:140:LYS:H	1.33	0.94
14:AN:51:ARG:O	14:AN:55:VAL:HG23	1.68	0.94
17:AQ:30:VAL:HG23	17:AQ:89:VAL:O	1.68	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:64:ARG:HD3	17:AQ:65:LYS:N	1.81	0.94
27:Aa:65:ASP:CA	27:Aa:68:ARG:HH22	1.79	0.94
34:BA:911:U:H2'	34:BA:912:C:H6	1.31	0.94
34:BA:1375:A:H2'	34:BA:1376:U:C6	2.02	0.94
35:BF:20:GLU:HA	35:BF:21:ARG:HH21	1.29	0.94
37:BH:20:TYR:CA	37:BH:26:CYS:SG	2.56	0.94
42:BM:48:GLU:HB3	42:BM:78:LYS:NZ	1.81	0.94
46:BQ:36:LYS:HG3	46:BQ:56:LEU:CD2	1.97	0.94
55:CA:37:GLU:HA	55:CA:39:GLN:HB3	1.50	0.94
1:AA:391:G:H2'	1:AA:392:C:C6	2.03	0.93
1:AA:1177:A:H2'	1:AA:1178:C:C6	2.03	0.93
1:AA:1708:C:C2'	1:AA:1709:U:H5''	1.97	0.93
1:AA:1754:C:H2'	1:AA:1755:A:O4'	1.68	0.93
1:AA:1777:U:O2'	1:AA:1778:U:H5'	1.66	0.93
1:AA:2630:G:O4'	1:AA:2894:G:N3	1.92	0.93
7:AG:61:ALA:CB	7:AG:67:LYS:HE2	1.98	0.93
12:AL:8:LEU:HD22	12:AL:9:GLU:H	1.30	0.93
26:AZ:54:VAL:HG22	26:AZ:55:ARG:N	1.81	0.93
34:BA:1486:G:C2'	34:BA:1487:G:H5''	1.98	0.93
36:BG:29:TYR:CZ	47:BR:54:PRO:HB2	2.03	0.93
37:BH:98:GLU:HA	37:BH:103:ASN:ND2	1.83	0.93
41:BL:7:ALA:HA	41:BL:10:LEU:HD12	1.49	0.93
42:BM:19:LEU:CD2	42:BM:59:PHE:HB3	1.96	0.93
55:CA:592:LEU:O	55:CA:597:ARG:NH1	1.99	0.93
1:AA:84:A:H5'	22:AV:8:LYS:HE2	1.49	0.93
1:AA:931:G:H8	1:AA:932:G:H1'	1.27	0.93
1:AA:1080:C:N1	10:AJ:129:GLY:CA	2.25	0.93
1:AA:1244:G:H5'	13:AM:9:ASN:CB	1.98	0.93
1:AA:2120:G:H21	3:AC:167:LYS:HZ2	1.10	0.93
1:AA:2850:A:C2	1:AA:2869:G:H4'	2.02	0.93
8:AH:153:LYS:N	8:AH:154:PRO:HD2	1.81	0.93
10:AJ:75:SER:HB3	10:AJ:130:SER:HB2	0.95	0.93
14:AN:81:VAL:HG12	14:AN:82:ARG:H	1.31	0.93
17:AQ:70:VAL:CG2	17:AQ:74:ARG:HD3	1.98	0.93
18:AR:55:ARG:HG3	18:AR:58:ARG:NH2	1.82	0.93
21:AU:44:GLU:HG3	21:AU:51:VAL:CG2	1.98	0.93
22:AV:47:LYS:NZ	22:AV:51:VAL:HG21	1.81	0.93
26:AZ:9:VAL:HG23	26:AZ:10:LYS:N	1.83	0.93
30:Ad:28:ARG:HA	30:Ad:31:LEU:CD1	1.97	0.93
34:BA:523:A:H61	45:BP:53:ARG:NH2	1.64	0.93
34:BA:1455:G:H4'	53:BX:28:ALA:O	1.66	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:164:TYR:CD2	55:CA:176:HIS:CE1	2.56	0.93
1:AA:2764:A:OP1	1:AA:2764:A:H4'	1.68	0.93
1:AA:2893:G:O4'	1:AA:2894:G:OP2	1.87	0.93
4:AD:131:LEU:HG	4:AD:132:PRO:HD2	1.50	0.93
6:AF:176:LEU:HG	6:AF:178:PRO:HD2	1.48	0.93
14:AN:75:THR:HG22	14:AN:77:LYS:H	1.33	0.93
15:AO:12:ARG:CZ	15:AO:16:HIS:HB3	1.97	0.93
15:AO:79:LEU:HD23	15:AO:80:PHE:CA	1.99	0.93
23:AW:104:PHE:HZ	23:AW:120:ILE:HG22	1.32	0.93
29:Ac:19:ARG:HH12	29:Ac:43:CYS:HB2	1.29	0.93
30:Ad:5:TRP:CH2	30:Ad:7:PRO:HB3	2.04	0.93
34:BA:538:G:O3'	45:BP:114:LYS:HD3	1.68	0.93
34:BA:1179:A:H4'	42:BM:103:THR:OG1	1.67	0.93
35:BF:150:SER:HA	35:BF:153:ARG:HB2	1.48	0.93
41:BL:24:THR:HG22	41:BL:61:VAL:O	1.68	0.93
48:BS:62:GLN:HA	48:BS:65:ARG:HH22	1.31	0.93
1:AA:716:A:H2'	1:AA:717:G:H5'	1.50	0.93
1:AA:1047:G:H5''	1:AA:1110:G:O6	1.69	0.93
1:AA:1656:C:H2'	1:AA:1657:C:C5	2.03	0.93
1:AA:1913:A:C5	34:BA:1494:G:OP1	2.20	0.93
1:AA:2296:U:H1'	1:AA:2335:A:N6	1.82	0.93
1:AA:2439:A:C8	1:AA:2586:C:H4'	2.04	0.93
1:AA:2563:U:H4'	12:AL:28:SER:OG	1.69	0.93
1:AA:2571:C:H1'	5:AE:146:THR:HG23	1.51	0.93
1:AA:2659:G:OP1	8:AH:158:HIS:CE1	2.22	0.93
2:AB:100:G:H2'	2:AB:101:A:C8	2.03	0.93
7:AG:57:ALA:C	7:AG:67:LYS:HB2	1.94	0.93
8:AH:24:VAL:HG22	8:AH:35:VAL:O	1.67	0.93
11:AK:87:LEU:O	11:AK:90:MET:HB2	1.67	0.93
11:AK:97:ARG:HA	11:AK:100:GLU:HG2	1.50	0.93
18:AR:49:HIS:HA	18:AR:52:ARG:CZ	1.98	0.93
21:AU:27:THR:HB	21:AU:80:ILE:HD12	1.48	0.93
31:Ae:29:LYS:HB3	31:Ae:34:TRP:CH2	2.02	0.93
34:BA:1107:C:OP1	36:BG:172:ARG:NH1	2.01	0.93
34:BA:1316:G:C4'	34:BA:1360:A:C5	2.51	0.93
34:BA:1506:U:C5'	34:BA:1507:A:OP2	2.16	0.93
46:BQ:65:LYS:CB	46:BQ:69:GLU:HB3	1.98	0.93
55:CA:37:GLU:HA	55:CA:39:GLN:CB	1.97	0.93
1:AA:179:G:H5'	30:Ad:32:LYS:NZ	1.84	0.93
1:AA:371:A:N7	1:AA:424:G:O4'	2.02	0.93
1:AA:674:G:H4'	6:AF:74:ARG:NE	1.82	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:901:A:C6	1:AA:902:C:C2	2.55	0.93
1:AA:1034:G:C5	1:AA:1122:G:C6	2.56	0.93
1:AA:1205:U:C4	1:AA:1207:C:N4	2.36	0.93
1:AA:1341:U:H3	1:AA:1398:C:H5'	1.31	0.93
1:AA:1918:A:H2'	34:BA:1408:A:H5'	1.48	0.93
1:AA:2051:A:H4'	5:AE:141:ILE:HD11	1.50	0.93
1:AA:2307:G:H3'	1:AA:2308:G:O4'	1.68	0.93
1:AA:2445:G:H2'	1:AA:2446:G:H8	1.27	0.93
4:AD:111:LEU:HB3	4:AD:115:GLN:NE2	1.84	0.93
13:AM:137:LYS:HA	13:AM:137:LYS:HE3	1.49	0.93
19:AS:43:GLU:O	19:AS:44:LYS:HD3	1.68	0.93
23:AW:53:ILE:HG12	23:AW:58:VAL:HG21	1.51	0.93
34:BA:449:C:H2'	34:BA:450:G:O4'	1.68	0.93
34:BA:1124:G:N2	34:BA:1126:U:H3	1.64	0.93
34:BA:1504:G:O2'	34:BA:1505:G:OP2	1.85	0.93
37:BH:148:VAL:HG21	37:BH:162:LEU:HD11	1.49	0.93
39:BJ:72:VAL:HG23	39:BJ:73:ASN:H	1.32	0.93
49:BT:4:ILE:HG23	49:BT:21:VAL:HG12	1.50	0.93
52:BW:15:LEU:HD11	52:BW:71:LEU:CD1	1.95	0.93
1:AA:1063:G:N7	1:AA:1064:C:H5	1.63	0.93
1:AA:1264:G:H5''	1:AA:1265:A:H5''	1.50	0.93
1:AA:1617:C:H4'	1:AA:1617:C:OP2	1.69	0.93
1:AA:1689:A:N6	1:AA:1698:A:H2	1.64	0.93
1:AA:1690:A:C2	1:AA:1691:C:H1'	2.04	0.93
1:AA:1804:C:H4'	4:AD:250:TRP:HH2	1.12	0.93
1:AA:1907:G:O6	56:AA:3001:NMY:C8	2.16	0.93
1:AA:1934:C:H5'	1:AA:1974:C:H4'	1.50	0.93
1:AA:2027:G:H1'	1:AA:2037:G:N2	1.84	0.93
1:AA:2673:G:H2'	1:AA:2674:G:H8	1.34	0.93
2:AB:44:G:N2	2:AB:48:A:H1'	1.82	0.93
3:AC:75:LEU:HD11	3:AC:99:ILE:HG21	1.48	0.93
9:AI:94:VAL:HA	9:AI:134:LEU:H	1.30	0.93
19:AS:11:GLN:HE22	19:AS:24:LYS:HZ3	0.95	0.93
27:Aa:43:TYR:HA	27:Aa:61:ARG:HH22	1.19	0.93
34:BA:237:C:H5''	50:BU:25:ARG:CZ	1.99	0.93
34:BA:858:G:H22	34:BA:869:G:C3'	1.81	0.93
41:BL:120:THR:O	41:BL:123:GLU:HB3	1.69	0.93
46:BQ:8:GLU:HG3	46:BQ:22:ILE:HG12	1.32	0.93
51:BV:72:ARG:O	51:BV:75:ILE:HB	1.68	0.93
53:BX:63:ILE:CD1	53:BX:80:ARG:HB3	1.98	0.93
55:CA:80:ASP:OD1	55:CA:365:HIS:N	2.00	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1272:A:O2'	1:AA:1273:U:OP1	1.85	0.93
1:AA:1800:C:H3'	1:AA:1800:C:C6	2.04	0.93
1:AA:1902:C:C5	1:AA:1903:G:N7	2.37	0.93
1:AA:1959:G:H5'	34:BA:1418:A:C1'	1.86	0.93
2:AB:29:A:H2'	2:AB:30:C:C6	2.04	0.93
2:AB:62:C:H2'	2:AB:63:G:H8	1.34	0.93
7:AG:41:GLN:NE2	7:AG:155:MET:HG3	1.83	0.93
7:AG:91:ARG:HH11	7:AG:91:ARG:CB	1.82	0.93
12:AL:97:ARG:HB2	12:AL:97:ARG:HH11	1.11	0.93
14:AN:27:VAL:HG22	14:AN:28:ALA:N	1.82	0.93
14:AN:46:GLN:O	14:AN:49:ALA:HB3	1.68	0.93
34:BA:273:A:C2	34:BA:274:A:H1'	2.04	0.93
34:BA:1054:C:H2'	34:BA:1055:A:H5''	1.50	0.93
34:BA:1200:C:H3'	34:BA:1201:A:H5'	1.50	0.93
34:BA:1224:G:C2'	52:BW:78:ARG:NH1	2.31	0.93
34:BA:1319:A:C4'	52:BW:70:LYS:NZ	2.07	0.93
35:BF:14:GLY:HA3	35:BF:209:ARG:HH21	1.33	0.93
40:BK:72:ARG:HH11	40:BK:72:ARG:HB3	1.32	0.93
46:BQ:10:PRO:C	46:BQ:45:VAL:CG1	2.41	0.93
55:CA:2:ILE:HG21	55:CA:267:LEU:CD2	1.99	0.93
55:CA:10:ILE:HD13	55:CA:21:LEU:HB3	0.97	0.93
55:CA:57:LEU:CD1	55:CA:255:LEU:HD23	1.99	0.93
55:CA:125:VAL:HB	55:CA:162:ILE:HA	1.50	0.93
55:CA:206:GLN:CB	55:CA:227:LYS:HB2	1.99	0.93
55:CA:287:THR:CG2	55:CA:297:LEU:HG	1.98	0.93
55:CA:379:GLU:HA	55:CA:580:VAL:O	1.69	0.93
1:AA:494:G:H4'	20:AT:6:ILE:O	1.67	0.93
1:AA:627:A:H4'	1:AA:627:A:OP2	1.67	0.93
1:AA:1055:G:N3	1:AA:1084:A:C2	2.36	0.93
1:AA:1906:G:H8	1:AA:1929:G:C8	1.80	0.93
1:AA:2161:C:H2'	1:AA:2162:G:H8	1.32	0.93
1:AA:2627:G:H2'	1:AA:2628:C:H5'	1.48	0.93
3:AC:77:ILE:HG21	3:AC:123:VAL:HG22	1.50	0.93
6:AF:5:ALA:C	6:AF:20:LEU:HD13	1.93	0.93
8:AH:38:SER:HB3	8:AH:41:MET:CG	1.97	0.93
9:AI:53:VAL:HA	9:AI:85:ASP:CA	1.98	0.93
12:AL:7:TYR:HB3	12:AL:18:LYS:HZ1	1.32	0.93
16:AP:3:ARG:CG	16:AP:4:LEU:H	1.79	0.93
18:AR:93:LYS:HA	18:AR:93:LYS:HZ2	1.33	0.93
34:BA:359:U:H5'	55:CA:216:SER:HB3	0.93	0.93
34:BA:817:C:O2'	34:BA:818:G:H5''	1.69	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1099:G:O2'	34:BA:1542:U:H4'	1.68	0.93
43:BN:63:PHE:HB3	47:BR:58:LYS:HA	1.47	0.93
45:BP:85:ILE:HD11	45:BP:98:TYR:CB	1.99	0.93
46:BQ:81:LEU:HD23	46:BQ:89:GLY:CA	1.97	0.93
50:BU:92:ARG:O	50:BU:95:TYR:HB2	1.69	0.93
55:CA:48:LEU:HD21	55:CA:78:HIS:HE1	1.32	0.93
1:AA:529:A:O2'	1:AA:530:G:N7	2.02	0.93
1:AA:1160:G:C6	1:AA:1161:C:N4	2.37	0.93
1:AA:1906:G:C6	1:AA:1929:G:C6	2.56	0.93
1:AA:2211:G:H3'	1:AA:2211:G:N3	1.82	0.93
1:AA:2455:G:H2'	1:AA:2456:C:C6	2.04	0.93
1:AA:2469:A:H8	1:AA:2469:A:H5'	1.34	0.93
1:AA:2491:U:H6	1:AA:2491:U:C3'	1.78	0.93
1:AA:2574:G:H1'	5:AE:143:ASN:HD22	1.33	0.93
5:AE:104:VAL:CG2	5:AE:198:VAL:HG13	1.99	0.93
5:AE:164:ARG:O	5:AE:165:VAL:HG22	1.68	0.93
12:AL:7:TYR:N	12:AL:7:TYR:CD1	2.25	0.93
12:AL:64:ARG:HG3	12:AL:65:THR:H	1.34	0.93
14:AN:67:ARG:HB2	14:AN:103:MET:SD	2.09	0.93
19:AS:66:ARG:HE	19:AS:95:LEU:HB2	1.30	0.93
22:AV:50:ARG:HA	22:AV:54:LYS:HA	1.49	0.93
41:BL:13:ILE:HG22	41:BL:14:ARG:N	1.81	0.93
44:BO:58:PRO:O	44:BO:61:ALA:HB3	1.68	0.93
1:AA:979:G:H3'	1:AA:980:A:C5'	1.99	0.93
1:AA:1491:G:H2'	1:AA:1492:G:H4'	1.48	0.93
1:AA:1650:G:N2	1:AA:1651:G:H1'	1.83	0.93
1:AA:2041:U:H2'	1:AA:2042:A:C8	2.04	0.93
1:AA:2122:U:H4'	3:AC:166:ASP:HB2	1.51	0.93
10:AJ:110:GLN:O	10:AJ:112:MET:N	1.99	0.93
11:AK:70:LYS:HZ2	11:AK:86:PRO:HB3	1.34	0.93
11:AK:109:LYS:HZ2	11:AK:110:GLY:H	1.04	0.93
18:AR:19:LYS:HB2	18:AR:19:LYS:NZ	1.81	0.93
19:AS:15:GLU:HA	19:AS:100:ARG:HH12	1.33	0.93
26:AZ:6:VAL:O	26:AZ:35:ARG:HG2	1.68	0.93
34:BA:198:G:H8	34:BA:198:G:OP2	1.52	0.93
34:BA:553:A:H2'	34:BA:554:C:C6	2.03	0.93
34:BA:720:C:C5	34:BA:721:G:H2'	2.04	0.93
34:BA:736:C:H5''	51:BV:72:ARG:NH2	1.82	0.93
34:BA:939:G:C5'	40:BK:102:ARG:HH22	1.80	0.93
34:BA:994:A:N7	34:BA:1216:G:H4'	1.84	0.93
34:BA:1100:C:H2'	35:BF:98:LEU:CD1	1.99	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1117:G:C5	34:BA:1184:G:N1	2.36	0.93
34:BA:1278:U:H4'	34:BA:1279:A:O4'	1.69	0.93
34:BA:1316:G:N2	34:BA:1319:A:N7	2.16	0.93
35:BF:69:LEU:O	35:BF:162:ILE:HA	1.69	0.93
35:BF:77:ALA:HA	35:BF:208:ILE:HD11	1.50	0.93
36:BG:189:ALA:HB3	36:BG:196:LEU:H	1.29	0.93
46:BQ:81:LEU:HB2	46:BQ:86:CYS:SG	2.09	0.93
50:BU:7:THR:CG2	50:BU:56:VAL:HG12	1.98	0.93
1:AA:6:A:N6	1:AA:2897:U:O4	2.02	0.92
1:AA:280:C:OP2	1:AA:280:C:H6	1.50	0.92
1:AA:443:A:H5'	6:AF:45:ARG:HH22	1.27	0.92
1:AA:472:A:H2'	1:AA:473:G:C5'	1.99	0.92
1:AA:614:U:H3'	1:AA:615:G:H4'	1.48	0.92
1:AA:826:U:H5''	1:AA:2428:G:O3'	1.69	0.92
1:AA:1264:G:H3'	1:AA:1265:A:C5'	1.98	0.92
1:AA:1762:A:H3'	1:AA:1762:A:H8	1.30	0.92
1:AA:1959:G:H5''	34:BA:1418:A:H1'	1.52	0.92
1:AA:2433:A:N6	27:Aa:32:TYR:HE2	1.67	0.92
1:AA:2675:A:C2'	1:AA:2676:C:H5'	1.99	0.92
1:AA:2754:U:H2'	1:AA:2755:C:H5''	1.51	0.92
4:AD:109:ASP:O	4:AD:111:LEU:HD22	1.68	0.92
11:AK:58:ASP:O	11:AK:60:ILE:N	2.02	0.92
16:AP:51:ALA:HB1	16:AP:73:LEU:HG	1.51	0.92
23:AW:42:VAL:HG12	23:AW:46:LYS:HZ3	1.32	0.92
26:AZ:6:VAL:HG12	26:AZ:55:ARG:O	1.68	0.92
34:BA:781:A:C2'	34:BA:782:A:H5'	1.98	0.92
34:BA:1191:A:OP1	36:BG:4:LYS:HG2	1.69	0.92
34:BA:1312:G:N1	34:BA:1326:C:C6	2.37	0.92
35:BF:56:ARG:HB3	35:BF:56:ARG:HH11	1.34	0.92
55:CA:407:VAL:N	55:CA:436:ARG:HH12	1.59	0.92
1:AA:455:C:H4'	1:AA:456:C:OP1	1.67	0.92
1:AA:621:A:H2'	1:AA:622:G:H5'	1.49	0.92
1:AA:1533:C:N3	1:AA:1539:G:N2	2.15	0.92
1:AA:2889:C:H2'	1:AA:2891:G:C8	2.03	0.92
2:AB:75:G:N3	23:AW:27:VAL:HG21	1.84	0.92
4:AD:13:ARG:NH1	4:AD:19:ALA:HB1	1.83	0.92
5:AE:50:GLY:H	5:AE:76:ARG:HG3	1.34	0.92
22:AV:42:VAL:N	22:AV:61:ILE:HB	1.83	0.92
33:Ag:7:UNK:O	33:Ag:147:UNK:C	2.17	0.92
34:BA:362:G:H8	45:BP:34:ARG:HH22	0.97	0.92
34:BA:1135:U:H4'	34:BA:1136:U:H5	1.33	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:144:ARG:HA	35:BF:147:LYS:HB2	1.47	0.92
55:CA:80:ASP:CG	55:CA:364:LEU:HB3	1.93	0.92
1:AA:5:A:C5	1:AA:2899:G:N1	2.37	0.92
1:AA:566:U:H5''	19:AS:82:ARG:CZ	1.99	0.92
1:AA:570:G:H1	1:AA:2498:C:H4'	1.34	0.92
1:AA:1717:G:N2	1:AA:1718:G:N3	2.17	0.92
1:AA:2075:U:H3	1:AA:2238:G:H1	1.01	0.92
1:AA:2122:U:C2'	1:AA:2123:G:H5''	1.99	0.92
1:AA:2209:C:H4'	4:AD:150:LYS:HB3	1.51	0.92
1:AA:2636:U:C4'	5:AE:79:ARG:HD3	1.99	0.92
3:AC:117:PRO:HD3	3:AC:146:GLY:C	1.93	0.92
10:AJ:40:ALA:CB	10:AJ:66:THR:HG1	1.73	0.92
11:AK:54:VAL:HG12	11:AK:122:VAL:HB	1.52	0.92
12:AL:89:ASN:ND2	12:AL:91:LEU:HB2	1.85	0.92
13:AM:56:SER:HB3	31:Ae:13:ARG:NH2	1.82	0.92
22:AV:29:GLU:OE1	22:AV:32:PRO:HG2	1.70	0.92
22:AV:38:ILE:HA	22:AV:62:GLU:HG3	1.51	0.92
27:Aa:56:VAL:HG12	27:Aa:57:GLU:H	1.33	0.92
30:Ad:17:GLY:H	30:Ad:21:ARG:NH2	1.66	0.92
34:BA:866:C:C5	34:BA:867:G:H1'	2.03	0.92
34:BA:1115:C:H2'	34:BA:1116:C:C6	2.02	0.92
34:BA:1229:A:H2'	34:BA:1230:C:C6	2.04	0.92
39:BJ:14:LEU:HD11	39:BJ:19:LEU:N	1.84	0.92
40:BK:69:VAL:CG2	40:BK:104:LEU:HD21	1.98	0.92
43:BN:15:THR:HG23	43:BN:16:LEU:HD22	1.47	0.92
53:BX:50:GLU:N	53:BX:99:LEU:HD12	1.83	0.92
55:CA:102:PHE:CD2	55:CA:134:GLY:O	2.22	0.92
55:CA:382:VAL:HG23	55:CA:578:VAL:HB	1.36	0.92
55:CA:603:ALA:HB3	55:CA:604:PRO:HD3	1.47	0.92
1:AA:1081:U:H4'	10:AJ:125:ARG:CB	2.00	0.92
1:AA:1270:C:H4'	1:AA:1271:G:H5'	1.50	0.92
1:AA:1448:G:H4'	1:AA:1543:A:C6	2.04	0.92
1:AA:1448:G:O3'	1:AA:1543:A:N1	2.02	0.92
1:AA:1466:G:H2'	1:AA:1547:C:N4	1.83	0.92
1:AA:1847:A:OP1	34:BA:702:A:C2	2.23	0.92
3:AC:6:ARG:HD2	3:AC:6:ARG:C	1.95	0.92
4:AD:106:ILE:HD12	4:AD:192:THR:HG21	1.52	0.92
8:AH:126:PRO:O	8:AH:127:GLU:HG2	1.69	0.92
12:AL:47:ILE:HD12	12:AL:52:VAL:HG22	1.49	0.92
14:AN:12:GLN:HE22	14:AN:13:GLN:HE21	1.09	0.92
19:AS:57:VAL:HG12	19:AS:58:VAL:H	1.33	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:12:THR:HG21	22:AV:71:LYS:C	1.95	0.92
23:AW:176:PRO:HB2	23:AW:179:ASP:CA	1.99	0.92
33:Ag:25:UNK:HA	33:Ag:130:UNK:CB	1.99	0.92
34:BA:783:C:O2'	34:BA:784:C:H5'	1.69	0.92
34:BA:1440:C:C2	34:BA:1462:G:N2	2.37	0.92
56:BA:1601:NMY:O14	56:BA:1601:NMY:N23	2.00	0.92
37:BH:121:VAL:HA	37:BH:126:ILE:HD11	1.52	0.92
46:BQ:15:VAL:CB	46:BQ:34:LEU:HD21	1.76	0.92
52:BW:9:VAL:CG1	52:BW:44:MET:HG3	1.98	0.92
55:CA:220:VAL:O	55:CA:274:VAL:CG1	2.18	0.92
1:AA:301:G:H2'	1:AA:302:C:C6	2.03	0.92
1:AA:901:A:C5	1:AA:902:C:C5	2.58	0.92
1:AA:1790:C:H4'	4:AD:213:ARG:NH1	1.85	0.92
1:AA:2116:G:H5'	1:AA:2117:A:OP2	1.69	0.92
1:AA:2533:A:C4'	1:AA:2664:G:O2'	2.16	0.92
5:AE:37:ARG:O	5:AE:38:THR:HB	1.66	0.92
6:AF:80:ALA:H	6:AF:83:PHE:HE1	1.11	0.92
8:AH:24:VAL:HG23	8:AH:35:VAL:HG23	1.50	0.92
11:AK:107:LEU:HD21	11:AK:113:GLY:HA3	1.51	0.92
18:AR:44:ASN:HD21	19:AS:78:LYS:CG	1.83	0.92
19:AS:11:GLN:NE2	19:AS:24:LYS:HZ3	1.66	0.92
29:Ac:17:LYS:O	29:Ac:19:ARG:HD2	1.69	0.92
34:BA:266:G:H8	50:BU:67:LYS:HZ3	0.92	0.92
34:BA:275:G:O3'	50:BU:14:LYS:HD3	1.69	0.92
34:BA:1112:C:H1'	36:BG:179:ARG:CZ	1.99	0.92
35:BF:31:TYR:CE2	35:BF:200:ILE:HG21	2.03	0.92
35:BF:102:LEU:HB2	35:BF:176:GLU:OE1	1.69	0.92
36:BG:91:LEU:CD2	36:BG:98:ASN:HA	1.99	0.92
37:BH:100:ARG:HH22	37:BH:137:SER:HA	1.34	0.92
37:BH:143:GLY:HA2	37:BH:185:PHE:HB3	1.50	0.92
55:CA:383:SER:H	55:CA:384:ARG:HG2	1.35	0.92
55:CA:483:ARG:HH12	55:CA:576:GLU:CD	1.76	0.92
1:AA:3:U:O2	1:AA:2900:A:H2	1.50	0.92
1:AA:459:U:H3'	30:Ad:40:TRP:CH2	2.05	0.92
1:AA:653:A:N6	1:AA:655:A:H1'	1.84	0.92
1:AA:997:G:H5''	18:AR:92:ARG:NH1	1.83	0.92
1:AA:1058:G:C2	1:AA:1059:G:C8	2.57	0.92
1:AA:1965:C:H3'	1:AA:1966:A:H8	1.31	0.92
1:AA:2405:G:H2'	1:AA:2411:A:N6	1.84	0.92
3:AC:10:LEU:HD21	3:AC:220:PRO:HD3	1.51	0.92
4:AD:68:LYS:HB3	4:AD:70:TRP:NE1	1.84	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:119:ALA:HB2	4:AD:130:ALA:H	1.32	0.92
7:AG:94:LEU:HB2	7:AG:99:MET:HE3	1.52	0.92
10:AJ:14:ALA:O	10:AJ:49:GLY:HA3	1.04	0.92
13:AM:72:PRO:CB	13:AM:111:ARG:HB3	2.00	0.92
15:AO:45:ARG:O	15:AO:49:ASP:CB	2.17	0.92
16:AP:62:LYS:HB3	16:AP:65:VAL:H	1.35	0.92
31:Ae:30:ARG:CZ	31:Ae:44:LYS:HB2	1.99	0.92
34:BA:1241:G:H2'	34:BA:1242:C:H6	1.29	0.92
34:BA:1441:G:H21	34:BA:1460:A:N6	1.68	0.92
35:BF:20:GLU:CD	35:BF:189:ASP:OD2	2.13	0.92
42:BM:74:ILE:HA	42:BM:77:ILE:HD12	1.51	0.92
43:BN:65:LEU:HB2	47:BR:56:VAL:HG13	1.50	0.92
48:BS:77:ARG:NH1	48:BS:81:LEU:HB2	1.82	0.92
55:CA:322:GLU:HG2	55:CA:379:GLU:OE1	1.68	0.92
55:CA:422:ARG:NH1	55:CA:480:VAL:CG2	2.15	0.92
1:AA:34:C:H2'	1:AA:455:C:N4	1.84	0.92
1:AA:185:U:H2'	1:AA:186:G:H8	1.30	0.92
1:AA:1050:A:H1'	1:AA:2752:C:H5	1.24	0.92
1:AA:2533:A:H5'	1:AA:2664:G:O2'	1.70	0.92
12:AL:122:LEU:H	17:AQ:70:VAL:CG1	1.81	0.92
13:AM:55:ARG:O	13:AM:56:SER:HB2	1.70	0.92
14:AN:6:ARG:HB2	14:AN:44:ALA:CB	2.00	0.92
14:AN:23:GLY:H	14:AN:99:PRO:HG3	1.34	0.92
16:AP:78:LEU:HD13	16:AP:79:ALA:N	1.84	0.92
21:AU:48:LYS:O	21:AU:88:LYS:HG3	1.69	0.92
22:AV:14:LEU:HB2	22:AV:20:TYR:CA	1.98	0.92
34:BA:529:G:H1	45:BP:49:ASN:HB3	1.35	0.92
34:BA:828:A:N1	34:BA:859:A:O4'	2.02	0.92
34:BA:863:U:O2	34:BA:863:U:H2'	1.65	0.92
34:BA:1062:U:H2'	34:BA:1063:C:C6	2.04	0.92
36:BG:38:ARG:HH11	36:BG:38:ARG:CB	1.82	0.92
38:BI:33:VAL:HG22	38:BI:43:LEU:HD12	1.49	0.92
44:BO:84:VAL:HG21	51:BV:88:LYS:HD3	1.51	0.92
52:BW:9:VAL:HG22	52:BW:42:PRO:CA	1.99	0.92
53:BX:73:HIS:H	53:BX:76:ALA:CB	1.82	0.92
1:AA:636:G:H22	13:AM:75:ILE:CD1	1.83	0.92
1:AA:1270:C:O2'	1:AA:1648:C:OP2	1.87	0.92
1:AA:1309:G:C2'	1:AA:1310:G:H5'	1.99	0.92
1:AA:1638:C:OP1	1:AA:2710:C:O2'	1.87	0.92
1:AA:1697:G:H3'	1:AA:1698:A:H5'	1.52	0.92
1:AA:2305:A:H2'	1:AA:2306:C:H5''	1.51	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:37:LEU:HD11	4:AD:63:ARG:HA	1.50	0.92
4:AD:134:ARG:C	4:AD:168:ARG:HH22	1.78	0.92
7:AG:131:TYR:CG	7:AG:132:ASN:N	2.29	0.92
11:AK:102:ALA:O	11:AK:105:GLY:HA3	1.68	0.92
13:AM:46:LYS:HE3	13:AM:46:LYS:N	1.83	0.92
14:AN:75:THR:HG23	14:AN:91:GLU:OE1	1.69	0.92
16:AP:49:VAL:HG13	16:AP:76:LYS:HE3	1.50	0.92
16:AP:99:LYS:O	16:AP:102:ALA:HB3	1.69	0.92
17:AQ:51:ARG:C	17:AQ:66:VAL:HG12	1.95	0.92
23:AW:157:LEU:HD21	23:AW:161:VAL:HA	1.50	0.92
34:BA:191:G:C4	53:BX:105:SER:HB3	2.04	0.92
34:BA:1116:C:N3	34:BA:1184:G:N1	2.16	0.92
34:BA:1253:G:N1	34:BA:1285:A:N6	2.16	0.92
34:BA:1404:C:O2'	34:BA:1499:A:H2	1.31	0.92
39:BJ:8:ILE:CG2	39:BJ:88:VAL:HA	2.00	0.92
40:BK:111:ARG:HB2	40:BK:119:ARG:HG2	1.51	0.92
42:BM:16:ARG:HG2	42:BM:18:PHE:CE1	2.05	0.92
44:BO:58:PRO:HB3	44:BO:90:GLY:HA3	1.50	0.92
46:BQ:81:LEU:HD22	46:BQ:82:MET:N	1.83	0.92
55:CA:294:VAL:HG12	55:CA:295:GLU:H	1.33	0.92
1:AA:20:C:O2'	1:AA:21:A:H5'	1.70	0.92
1:AA:665:C:H2'	1:AA:666:G:H8	1.35	0.92
1:AA:988:A:H3'	26:AZ:10:LYS:HZ1	1.30	0.92
1:AA:1005:C:H5	1:AA:1143:A:OP1	1.51	0.92
1:AA:1281:G:H2'	1:AA:1282:U:C6	2.04	0.92
1:AA:1291:C:H5''	1:AA:1536:A:H5'	1.52	0.92
1:AA:2051:A:C4'	5:AE:141:ILE:HD11	2.00	0.92
1:AA:2076:U:H4'	1:AA:2077:A:OP1	1.70	0.92
2:AB:101:A:H2'	2:AB:102:G:C8	2.04	0.92
6:AF:9:ILE:HG12	6:AF:124:LEU:HB2	1.52	0.92
8:AH:38:SER:H	8:AH:41:MET:CE	1.83	0.92
11:AK:89:LYS:HE2	11:AK:89:LYS:N	1.85	0.92
33:Ag:291:UNK:N	33:Ag:342:UNK:C	2.32	0.92
34:BA:979:C:N4	47:BR:18:VAL:HB	1.85	0.92
40:BK:50:ILE:O	40:BK:54:THR:HG23	1.70	0.92
46:BQ:37:THR:HG23	46:BQ:39:ILE:HG12	1.50	0.92
55:CA:164:TYR:CA	55:CA:172:ALA:O	2.18	0.92
55:CA:287:THR:HG21	55:CA:297:LEU:HG	1.48	0.92
55:CA:497:VAL:HA	55:CA:514:HIS:HE1	1.30	0.92
1:AA:72:U:H1'	25:AY:56:LEU:HD23	1.50	0.92
1:AA:784:A:N6	1:AA:792:G:N3	2.17	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:789:A:OP1	1:AA:789:A:H3'	1.69	0.92
1:AA:879:G:C6	1:AA:897:C:C2'	2.46	0.92
1:AA:1005:C:H2'	1:AA:1006:C:H6	1.34	0.92
1:AA:1063:G:C8	1:AA:1064:C:C5	2.57	0.92
1:AA:1764:G:O2'	1:AA:1765:C:H5'	1.70	0.92
1:AA:1791:A:H3'	1:AA:1792:G:H8	1.33	0.92
1:AA:1820:U:H2'	4:AD:202:LYS:HG3	1.49	0.92
1:AA:1864:U:H2'	1:AA:1869:G:H5'	1.50	0.92
1:AA:1906:G:C2	1:AA:1907:G:N7	2.38	0.92
5:AE:105:THR:CB	5:AE:166:THR:HB	1.99	0.92
6:AF:103:LYS:HB3	6:AF:107:LYS:HE3	1.52	0.92
6:AF:131:GLY:HA2	6:AF:138:GLU:CG	1.99	0.92
9:AI:53:VAL:CA	9:AI:85:ASP:CA	2.48	0.92
10:AJ:112:MET:CG	10:AJ:122:ALA:HB2	1.92	0.92
14:AN:32:TYR:HB2	14:AN:105:GLU:O	1.67	0.92
16:AP:89:ARG:HH21	16:AP:91:PRO:HA	1.34	0.92
18:AR:53:ARG:HA	18:AR:56:ASP:CG	1.95	0.92
23:AW:27:VAL:CG2	23:AW:85:HIS:NE2	2.26	0.92
23:AW:96:VAL:HA	23:AW:128:VAL:HG13	1.52	0.92
25:AY:20:VAL:HA	25:AY:55:LEU:HD23	1.52	0.92
34:BA:1117:G:N2	34:BA:1184:G:H1'	1.83	0.92
41:BL:33:GLU:HG2	41:BL:59:LEU:HD11	1.49	0.92
42:BM:78:LYS:HZ2	42:BM:101:PHE:HE2	1.14	0.92
50:BU:10:VAL:HG23	50:BU:55:ASP:O	1.70	0.92
55:CA:163:VAL:HG13	55:CA:173:GLY:CA	2.00	0.92
1:AA:390:A:H5''	1:AA:391:G:OP1	1.70	0.91
1:AA:1138:G:H21	1:AA:1139:G:H1'	1.33	0.91
1:AA:1186:G:C8	1:AA:1187:G:C8	2.58	0.91
1:AA:2051:A:H5''	1:AA:2578:G:H5''	1.52	0.91
1:AA:2075:U:H2'	1:AA:2076:U:C5'	2.00	0.91
1:AA:2667:C:C2'	1:AA:2668:G:H5'	1.98	0.91
1:AA:2862:G:H2'	1:AA:2863:C:H6	1.32	0.91
2:AB:51:G:H5'	16:AP:60:GLY:HA2	1.50	0.91
4:AD:181:GLU:HB2	4:AD:268:ARG:HH21	1.33	0.91
17:AQ:111:ARG:O	17:AQ:114:LEU:HB2	1.70	0.91
18:AR:46:ALA:O	18:AR:50:ARG:HD3	1.70	0.91
19:AS:69:LYS:HG2	19:AS:70:ILE:HG13	1.52	0.91
27:Aa:52:THR:HG22	27:Aa:53:GLU:N	1.84	0.91
29:Ac:7:ILE:O	29:Ac:9:LEU:N	2.04	0.91
34:BA:1104:G:H4'	35:BF:111:ARG:HE	1.35	0.91
35:BF:118:LEU:HD21	35:BF:142:LEU:HB2	1.52	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:19:ILE:HB	49:BT:37:GLY:O	1.69	0.91
50:BU:5:VAL:HG22	50:BU:60:ILE:CA	2.00	0.91
50:BU:88:TYR:O	50:BU:92:ARG:HB2	1.71	0.91
55:CA:426:LEU:HD13	55:CA:441:TYR:HE1	1.09	0.91
55:CA:488:LEU:HD21	55:CA:526:ILE:C	1.94	0.91
1:AA:869:G:H2'	1:AA:870:A:C5'	2.01	0.91
1:AA:920:G:O2'	1:AA:921:G:H5'	1.70	0.91
1:AA:988:A:H4'	1:AA:1155:A:H2	1.35	0.91
1:AA:2261:C:P	24:AX:17:GLN:HB2	2.09	0.91
4:AD:57:GLY:H	4:AD:217:ARG:HD2	1.33	0.91
4:AD:117:VAL:HG22	4:AD:126:GLN:NE2	1.85	0.91
5:AE:33:VAL:HG22	5:AE:47:VAL:O	1.70	0.91
5:AE:198:VAL:HG12	5:AE:200:GLU:OE2	1.71	0.91
5:AE:200:GLU:HB3	5:AE:202:LYS:HZ3	1.36	0.91
6:AF:41:LEU:HB2	6:AF:44:ARG:HH21	1.36	0.91
9:AI:97:ALA:N	9:AI:132:ASP:O	2.02	0.91
13:AM:91:PHE:H	13:AM:125:VAL:HG11	1.35	0.91
17:AQ:68:TYR:CE2	17:AQ:70:VAL:HG22	2.05	0.91
18:AR:55:ARG:HB3	18:AR:58:ARG:HE	1.35	0.91
23:AW:110:GLY:O	23:AW:113:ALA:HB3	1.70	0.91
25:AY:2:ARG:O	25:AY:5:LEU:HB2	1.70	0.91
31:Ae:4:MET:HE1	31:Ae:62:LEU:HG	1.51	0.91
34:BA:600:C:OP1	41:BL:97:VAL:N	2.04	0.91
34:BA:1158:C:C1'	35:BF:133:LYS:HZ1	1.82	0.91
34:BA:1521:G:H2'	34:BA:1522:U:H6	1.34	0.91
38:BI:9:LYS:HB2	38:BI:33:VAL:HB	1.51	0.91
40:BK:69:VAL:HG21	40:BK:104:LEU:CD2	1.99	0.91
40:BK:98:SER:O	40:BK:101:LEU:HB3	1.71	0.91
40:BK:111:ARG:NH1	40:BK:112:PRO:HD2	1.85	0.91
43:BN:50:ILE:CA	43:BN:60:ARG:HG3	2.00	0.91
46:BQ:71:ARG:O	46:BQ:75:ALA:N	2.03	0.91
1:AA:1543:A:H3'	1:AA:1544:C:C4'	1.99	0.91
1:AA:1812:A:H2'	1:AA:1813:G:O4'	1.70	0.91
1:AA:2620:C:H4'	5:AE:156:MET:CB	2.00	0.91
1:AA:2700:C:H2'	1:AA:2701:C:H5''	1.51	0.91
4:AD:246:PRO:HG3	4:AD:252:TRP:HE3	1.36	0.91
5:AE:4:ILE:HD11	5:AE:76:ARG:CZ	2.01	0.91
7:AG:75:LYS:HB3	7:AG:84:LYS:H	1.35	0.91
14:AN:71:ASP:OD2	14:AN:95:ALA:HA	1.71	0.91
18:AR:102:GLU:O	18:AR:105:VAL:HG12	1.70	0.91
30:Ad:17:GLY:H	30:Ad:21:ARG:HH22	1.07	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:34:TRP:C	31:Ae:36:LYS:N	2.20	0.91
34:BA:186(D):C:H2'	34:BA:186(E):C:C6	2.05	0.91
34:BA:1048:G:H5''	47:BR:3:ARG:HH11	1.34	0.91
34:BA:1329:A:H4'	46:BQ:29:ARG:HH22	1.31	0.91
41:BL:46:LYS:HZ2	41:BL:64:LYS:HA	1.35	0.91
43:BN:24:VAL:HG22	43:BN:72:VAL:HG13	1.53	0.91
45:BP:106:ASP:N	55:CA:329:ARG:HD2	1.84	0.91
46:BQ:15:VAL:HG11	46:BQ:39:ILE:HD11	1.50	0.91
55:CA:382:VAL:HG22	55:CA:578:VAL:CB	1.90	0.91
1:AA:1303:G:N2	1:AA:1626:G:O2'	2.04	0.91
1:AA:1614:A:H3'	1:AA:1614:A:N3	1.85	0.91
1:AA:1774:C:C5	1:AA:1775:U:H5	1.89	0.91
1:AA:1774:C:C5	1:AA:1775:U:C5	2.57	0.91
1:AA:1906:G:N9	1:AA:1929:G:C5	2.34	0.91
1:AA:2589:A:O2'	1:AA:2590:A:H5'	1.68	0.91
3:AC:64:LEU:HB3	3:AC:188:ASN:CG	1.96	0.91
4:AD:61:LEU:CB	4:AD:86:PRO:HG2	2.00	0.91
6:AF:158:THR:HG21	6:AF:196:LEU:N	1.84	0.91
10:AJ:19:PRO:HG3	10:AJ:38:VAL:N	1.85	0.91
11:AK:7:LYS:HE3	11:AK:8:GLN:N	1.83	0.91
16:AP:26:LEU:HD21	16:AP:37:ALA:HB1	1.51	0.91
17:AQ:24:PRO:HG2	17:AQ:25:GLY:H	1.32	0.91
22:AV:14:LEU:HD13	22:AV:20:TYR:C	1.95	0.91
25:AY:44:LYS:HG3	25:AY:48:LEU:HD22	1.52	0.91
34:BA:356:A:O3'	34:BA:367:U:H2'	1.70	0.91
34:BA:410:G:H1'	34:BA:432:A:H61	1.32	0.91
34:BA:776:G:H5''	34:BA:777:A:OP1	1.70	0.91
34:BA:974:A:OP2	47:BR:31:ARG:HG2	1.70	0.91
34:BA:975:A:O2'	34:BA:1358:U:H1'	1.71	0.91
34:BA:1084:G:C4	34:BA:1085:U:H5	1.87	0.91
34:BA:1459:C:P	53:BX:31:SER:CB	2.59	0.91
39:BJ:6:VAL:CG2	39:BJ:8:ILE:HD11	1.99	0.91
41:BL:5:PRO:O	41:BL:8:ASP:HB3	1.70	0.91
43:BN:30:SER:CB	43:BN:81:THR:HA	1.99	0.91
52:BW:22:LEU:HG	52:BW:25:LYS:HZ1	1.31	0.91
52:BW:32:LYS:HA	52:BW:50:ALA:CB	2.00	0.91
52:BW:62:ILE:HD11	52:BW:67:VAL:HA	1.50	0.91
53:BX:13:LEU:HD12	53:BX:13:LEU:N	1.84	0.91
55:CA:5:LEU:CD1	55:CA:268:ALA:HB3	1.97	0.91
55:CA:307:VAL:CG1	55:CA:366:LEU:HD12	2.00	0.91
1:AA:2:G:N7	1:AA:2902:C:C4	2.32	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:152:G:H22	1:AA:175:G:H1'	1.33	0.91
1:AA:904:C:O4'	23:AW:169:GLU:OE1	1.88	0.91
1:AA:1142:U:H3'	1:AA:1142(A):A:N7	1.86	0.91
1:AA:2213:U:H5'	1:AA:2215:G:C5	2.04	0.91
1:AA:2225:A:H5'	1:AA:2226:C:O4'	1.70	0.91
1:AA:2305:A:H2'	7:AG:154:GLY:HA2	1.52	0.91
14:AN:67:ARG:NH1	14:AN:103:MET:HB3	1.85	0.91
14:AN:75:THR:HG22	14:AN:77:LYS:HD2	1.50	0.91
34:BA:468:A:H4'	49:BT:82:GLN:HB3	1.53	0.91
34:BA:1307:U:OP1	46:BQ:101:GLN:CD	2.13	0.91
34:BA:1484:C:H2'	34:BA:1485:U:C5'	1.99	0.91
35:BF:160:ASP:HB3	35:BF:182:ILE:HG21	1.50	0.91
36:BG:33:LEU:CD1	47:BR:54:PRO:HD2	1.99	0.91
37:BH:94:LEU:HA	37:BH:97:LEU:CD1	2.00	0.91
38:BI:121:LYS:HZ2	38:BI:122:GLU:N	1.66	0.91
42:BM:103:THR:HG22	42:BM:104:ARG:H	1.32	0.91
46:BQ:27:LYS:HB2	54:BY:7:ARG:NH1	1.83	0.91
55:CA:13:HIS:HB2	55:CA:108:GLN:CG	2.00	0.91
55:CA:205:PHE:CZ	55:CA:207:MET:HB2	2.04	0.91
1:AA:221:A:H61	1:AA:265:A:H62	0.96	0.91
1:AA:621:A:N6	1:AA:622:G:N3	2.19	0.91
1:AA:637:A:C2	1:AA:651:G:H5''	2.05	0.91
1:AA:894:C:C2'	1:AA:895:U:H5'	2.00	0.91
1:AA:1072:C:C2'	1:AA:1093:G:C6	2.54	0.91
1:AA:1154:G:OP1	18:AR:62:ILE:HD11	1.70	0.91
1:AA:2329:G:H1	1:AA:2386:C:N4	1.67	0.91
1:AA:2341:G:H2'	1:AA:2342:C:C6	2.06	0.91
4:AD:129:ASN:O	4:AD:193:VAL:HB	1.69	0.91
7:AG:58:GLN:O	7:AG:61:ALA:HB3	1.71	0.91
9:AI:54:ALA:HB1	9:AI:83:TYR:CA	1.99	0.91
10:AJ:27:LEU:HD11	10:AJ:57:ILE:HB	1.51	0.91
10:AJ:33:ASN:CB	10:AJ:63:ARG:CB	2.49	0.91
12:AL:10:VAL:H	12:AL:17:ARG:HG2	1.36	0.91
13:AM:23:PRO:CB	13:AM:29:LYS:H	1.84	0.91
17:AQ:110:ILE:CG1	34:BA:1431:C:OP1	2.19	0.91
22:AV:1:MET:N	22:AV:33:LYS:HE3	1.84	0.91
23:AW:151:HIS:HB2	23:AW:168:GLU:HG2	1.51	0.91
31:Ae:7:HIS:HB2	31:Ae:8:LYS:HZ3	1.36	0.91
34:BA:7:G:H21	38:BI:121:LYS:HG3	1.32	0.91
34:BA:96:G:H2'	34:BA:97:U:C6	2.05	0.91
34:BA:620:C:C2	37:BH:135:LEU:HD13	2.04	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:761:G:H5'	50:BU:102:GLY:CA	1.99	0.91
34:BA:1109:C:H2'	34:BA:1110:A:H8	1.34	0.91
34:BA:1228:C:OP1	46:BQ:115:LYS:HB3	1.70	0.91
34:BA:1317:C:C2	34:BA:1318:A:C1'	2.53	0.91
34:BA:1348:U:H4'	42:BM:120:ARG:NH1	1.85	0.91
34:BA:1486:G:C4	34:BA:1487:G:H8	1.80	0.91
35:BF:193:ASP:OD2	35:BF:196:LEU:HD11	1.68	0.91
39:BJ:3:ARG:HA	39:BJ:67:MET:CE	1.98	0.91
52:BW:9:VAL:HA	52:BW:41:VAL:HB	1.51	0.91
55:CA:6:ARG:C	55:CA:69:ARG:HB3	1.92	0.91
55:CA:144:VAL:HG13	55:CA:147:LEU:HD22	1.53	0.91
55:CA:307:VAL:HG11	55:CA:366:LEU:HD12	1.52	0.91
55:CA:346:ARG:HH11	55:CA:346:ARG:HG2	1.35	0.91
55:CA:379:GLU:CD	55:CA:581:THR:HG21	1.82	0.91
1:AA:1325:G:H21	20:AT:86:LEU:HD13	1.35	0.91
1:AA:1655:A:H4'	5:AE:113:PHE:O	1.69	0.91
1:AA:2346:A:H62	29:Ac:37:ARG:HH12	0.93	0.91
1:AA:2522:U:O2'	1:AA:2647:U:OP1	1.88	0.91
7:AG:47:LYS:HB2	7:AG:53:LEU:HD11	1.52	0.91
8:AH:94:TYR:HA	8:AH:106:THR:O	1.70	0.91
11:AK:78:TYR:HB3	11:AK:79:PRO:HD2	1.53	0.91
15:AO:87:TYR:OH	15:AO:116:LEU:HB2	1.71	0.91
17:AQ:91:ARG:O	17:AQ:93:ARG:NH2	2.04	0.91
20:AT:11:ARG:HA	20:AT:100:THR:HA	1.50	0.91
26:AZ:26:LEU:HB2	26:AZ:28:LEU:HD21	1.51	0.91
34:BA:358:U:H1'	55:CA:217:TYR:HE1	1.35	0.91
34:BA:363:A:OP2	45:BP:34:ARG:HB3	1.71	0.91
34:BA:509:A:H2'	34:BA:510:A:C8	2.05	0.91
34:BA:764:C:H2'	34:BA:765:G:N7	1.84	0.91
34:BA:1414:U:O2	34:BA:1487:G:N3	2.03	0.91
34:BA:1490:C:H5	56:BA:1601:NMY:O17	1.53	0.91
35:BF:48:MET:SD	35:BF:48:MET:N	2.44	0.91
36:BG:30:ARG:HB3	47:BR:36:PHE:O	1.71	0.91
39:BJ:10:LEU:H	39:BJ:10:LEU:HD23	1.33	0.91
44:BO:82:VAL:HB	44:BO:108:ILE:HG12	1.53	0.91
45:BP:85:ILE:HG13	45:BP:87:GLY:H	1.36	0.91
46:BQ:8:GLU:CB	46:BQ:22:ILE:CG1	2.48	0.91
55:CA:18:LYS:CB	57:CA:701:GCP:PB	2.52	0.91
55:CA:157:GLN:O	55:CA:159:ASP:HB3	1.69	0.91
55:CA:245:LYS:CE	55:CA:291:THR:HB	2.00	0.91
55:CA:305:PRO:HB3	55:CA:361:ARG:HG2	1.50	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:549:G:H2'	1:AA:550:G:C8	2.06	0.91
1:AA:1291:C:H5'	1:AA:1535:U:O2'	1.71	0.91
1:AA:2282:G:H1	1:AA:2427:C:H42	1.10	0.91
1:AA:2344:U:C5'	29:Ac:38:LYS:HG3	2.00	0.91
1:AA:2543:G:C2	1:AA:2765:A:C2	2.57	0.91
1:AA:2556:C:H2'	1:AA:2557:G:O4'	1.71	0.91
2:AB:89(A):A:H2'	2:AB:90:C:C5'	2.00	0.91
4:AD:5:LYS:HB3	4:AD:82:ILE:HB	1.52	0.91
4:AD:181:GLU:HA	4:AD:270:ILE:HD12	1.52	0.91
5:AE:36:ARG:HD2	5:AE:41:LYS:NZ	1.86	0.91
9:AI:51:LEU:O	9:AI:53:VAL:N	2.02	0.91
11:AK:34:LEU:HA	11:AK:49:GLY:O	1.71	0.91
18:AR:88:ILE:N	19:AS:52:VAL:HG22	1.86	0.91
21:AU:62:LYS:O	21:AU:63:LYS:HB2	1.69	0.91
22:AV:47:LYS:HB2	22:AV:49:VAL:HG22	1.51	0.91
32:Af:23:VAL:HB	32:Af:36:GLN:CG	2.01	0.91
34:BA:1111:A:H2'	34:BA:1112:C:C6	2.05	0.91
34:BA:1180:A:H2'	34:BA:1181:G:H5'	1.51	0.91
34:BA:1229:A:H2'	34:BA:1230:C:H6	1.33	0.91
36:BG:108:ASN:HD22	36:BG:111:LEU:HD13	1.35	0.91
40:BK:122:HIS:O	40:BK:125:MET:HG3	1.69	0.91
46:BQ:14:ARG:HD3	46:BQ:41:PRO:CB	1.98	0.91
48:BS:36:ILE:HD11	48:BS:60:VAL:HG13	1.52	0.91
53:BX:45:GLN:HE21	53:BX:91:LEU:HD13	1.32	0.91
55:CA:230:LYS:CG	55:CA:266:ASP:CA	2.49	0.91
55:CA:403:VAL:O	55:CA:465:LEU:HB2	1.68	0.91
55:CA:426:LEU:HD21	55:CA:429:MET:HB3	1.52	0.91
55:CA:502:PHE:CD1	55:CA:555:VAL:HG21	2.04	0.91
1:AA:1110:G:O3'	1:AA:1111:A:O4'	1.86	0.91
1:AA:2059:A:N1	1:AA:2503:A:N7	2.19	0.91
1:AA:2524:G:H5'	1:AA:2764:A:O2'	1.69	0.91
1:AA:2660:A:H2	55:CA:456:MET:HB2	0.74	0.91
1:AA:2848:G:C8	17:AQ:99:LEU:HD11	2.06	0.91
4:AD:211:ARG:O	4:AD:215:LEU:HD12	1.70	0.91
5:AE:72:VAL:HG23	5:AE:74:PRO:HD3	1.53	0.91
5:AE:133:LYS:HB3	5:AE:137:HIS:NE2	1.84	0.91
7:AG:49:ASP:HA	7:AG:53:LEU:CD2	2.00	0.91
8:AH:105:LEU:HB2	8:AH:113:VAL:HG11	1.51	0.91
15:AO:86:ARG:HB3	15:AO:86:ARG:NH1	1.85	0.91
15:AO:99:LYS:HD2	15:AO:99:LYS:N	1.83	0.91
16:AP:69:VAL:O	16:AP:73:LEU:HD13	1.69	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:111:GLU:HA	18:AR:114:LYS:NZ	1.85	0.91
20:AT:16:LYS:H	20:AT:16:LYS:CD	1.84	0.91
21:AU:73:ARG:HG2	21:AU:74:PRO:HD2	1.53	0.91
28:Ab:46:CYS:HB2	28:Ab:47:PRO:HD2	1.50	0.91
34:BA:169:C:H2'	34:BA:170:U:H6	1.31	0.91
34:BA:272:C:H2'	34:BA:273:A:H8	1.36	0.91
34:BA:961:U:O2'	34:BA:962:C:H5'	1.70	0.91
34:BA:1180:A:C2'	34:BA:1181:G:H5'	2.01	0.91
34:BA:1313:U:N3	34:BA:1324:A:H2	1.48	0.91
38:BI:23:GLY:HA3	38:BI:25:ARG:NH1	1.86	0.91
55:CA:62:ALA:HB2	55:CA:187:TYR:CD2	2.05	0.91
55:CA:318:PHE:HE2	55:CA:519:TYR:CE1	1.65	0.91
1:AA:2:G:N9	1:AA:2902:C:C2	2.38	0.91
1:AA:46:C:OP2	1:AA:215:G:H3'	1.71	0.91
1:AA:198:C:O2'	1:AA:199:A:H8	1.54	0.91
1:AA:510:C:P	1:AA:512:G:H1	1.93	0.91
1:AA:530:G:N1	1:AA:2022:U:OP1	2.03	0.91
1:AA:917:A:C2'	1:AA:918:A:H5''	2.01	0.91
1:AA:1646:C:C3'	1:AA:1647:G:H5'	2.01	0.91
1:AA:1906:G:C4	1:AA:1929:G:O6	2.21	0.91
1:AA:2117:A:N6	1:AA:2171:A:N1	2.19	0.91
1:AA:2881:C:H2'	1:AA:2882:A:H8	1.35	0.91
4:AD:89:SER:OG	4:AD:158:ALA:HB1	1.71	0.91
5:AE:80:GLU:HG2	5:AE:83:ASP:OD2	1.70	0.91
11:AK:3:THR:O	11:AK:4:TYR:HB2	1.69	0.91
12:AL:112:MET:O	12:AL:115:VAL:HB	1.71	0.91
14:AN:106:VAL:CG2	14:AN:107:ALA:H	1.83	0.91
17:AQ:39:ARG:NH1	34:BA:345:C:O3'	1.93	0.91
18:AR:83:LEU:HD12	18:AR:83:LEU:H	1.34	0.91
23:AW:57:ILE:HG12	23:AW:70:LEU:CB	2.01	0.91
26:AZ:26:LEU:HG	26:AZ:47:VAL:HG22	1.50	0.91
31:Ae:8:LYS:HD3	31:Ae:11:LYS:NZ	1.86	0.91
34:BA:449:C:N3	34:BA:450:G:H1'	1.86	0.91
34:BA:827:U:H4'	41:BL:19:VAL:HG21	1.51	0.91
34:BA:1125:U:O5'	43:BN:38:ILE:HD11	1.69	0.91
34:BA:1311:G:N3	34:BA:1327:C:C1'	2.34	0.91
37:BH:60:GLU:CD	37:BH:202:LEU:HD12	1.95	0.91
37:BH:191:ARG:HD3	37:BH:192:GLU:N	1.86	0.91
41:BL:25:ASP:HB3	41:BL:58:TYR:HB3	1.51	0.91
51:BV:74:ARG:HA	51:BV:79:LEU:CD1	2.01	0.91
51:BV:74:ARG:HG3	51:BV:79:LEU:HD22	1.52	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:69:ARG:HA	55:CA:70:ILE:HB	1.53	0.91
55:CA:248:ASN:HD21	55:CA:273:ILE:CD1	1.82	0.91
1:AA:247:G:H22	31:Ae:8:LYS:HD2	1.30	0.90
1:AA:728:G:HO2'	1:AA:729:G:H8	0.97	0.90
1:AA:821:A:H2'	1:AA:946:G:C8	2.06	0.90
1:AA:1157:G:OP2	1:AA:1157:G:H3'	1.71	0.90
1:AA:1222:C:H42	1:AA:1227:A:H62	1.17	0.90
1:AA:1908:C:H2'	1:AA:1909:C:C6	2.06	0.90
1:AA:2581:G:H1	1:AA:2610:C:C2'	1.83	0.90
1:AA:2615:U:C1'	28:Ab:7:PRO:HB3	2.01	0.90
1:AA:2670:A:C2	1:AA:2671:A:C8	2.57	0.90
8:AH:8:PRO:HB3	8:AH:51:ARG:HH22	1.36	0.90
9:AI:53:VAL:HA	9:AI:85:ASP:C	1.96	0.90
9:AI:54:ALA:CA	9:AI:84:GLU:C	2.38	0.90
12:AL:122:LEU:HA	17:AQ:74:ARG:NH1	1.85	0.90
14:AN:43:THR:HA	14:AN:94:VAL:HG11	1.52	0.90
18:AR:114:LYS:HG2	18:AR:115:ALA:N	1.86	0.90
21:AU:7:VAL:HG11	25:AY:31:ARG:HH12	1.37	0.90
34:BA:20:U:H5'	34:BA:572:A:N6	1.84	0.90
34:BA:1263:C:H2'	34:BA:1264:C:H6	1.35	0.90
34:BA:1268:A:C2	34:BA:1311:G:H1'	2.06	0.90
34:BA:1441:G:H21	34:BA:1460:A:H62	0.93	0.90
40:BK:69:VAL:HG22	40:BK:135:VAL:CG2	2.00	0.90
45:BP:58:VAL:O	45:BP:65:GLU:HA	1.70	0.90
47:BR:58:LYS:HD3	47:BR:59:ALA:H	1.33	0.90
52:BW:45:VAL:HG22	52:BW:67:VAL:HG21	1.53	0.90
55:CA:2:ILE:HG21	55:CA:267:LEU:HD23	1.53	0.90
55:CA:310:PHE:O	55:CA:384:ARG:N	2.04	0.90
1:AA:323:G:H5'	1:AA:324:A:OP1	1.71	0.90
1:AA:594:U:H2'	1:AA:595:C:C5	2.06	0.90
1:AA:1019:U:OP1	1:AA:1036:G:C1'	2.19	0.90
1:AA:1034:G:C6	1:AA:1122:G:C6	2.59	0.90
1:AA:1047:G:C2'	1:AA:1110:G:N9	2.20	0.90
1:AA:1237:A:O2'	1:AA:1238:G:O4'	1.89	0.90
1:AA:2361:A:H3'	1:AA:2362:G:H8	1.36	0.90
4:AD:8:PRO:HD2	4:AD:26:LYS:O	1.69	0.90
4:AD:206:LEU:HD13	4:AD:206:LEU:N	1.87	0.90
7:AG:61:ALA:HB2	7:AG:67:LYS:CB	2.01	0.90
9:AI:152:VAL:C	9:AI:155:GLY:HA3	1.95	0.90
10:AJ:17:ALA:CA	10:AJ:41:PHE:CB	2.41	0.90
11:AK:30:ILE:O	11:AK:33:LEU:HB3	1.71	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:41:ALA:HB1	15:AO:97:VAL:HG13	1.51	0.90
27:Aa:29:PRO:HG2	27:Aa:31:ILE:HG23	1.53	0.90
27:Aa:66:SER:O	27:Aa:69:LYS:HB2	1.70	0.90
32:Af:7:VAL:HG11	32:Af:36:GLN:HE22	1.33	0.90
34:BA:628:G:H2'	34:BA:629:G:C8	2.05	0.90
34:BA:777:A:H2'	34:BA:778:G:H8	1.35	0.90
36:BG:11:ARG:HD3	36:BG:15:THR:HG23	1.53	0.90
38:BI:94:ALA:HB1	38:BI:98:THR:HG21	1.52	0.90
39:BJ:97:PHE:HD2	51:BV:31:LEU:HD13	1.32	0.90
50:BU:43:LEU:HD13	50:BU:43:LEU:C	1.94	0.90
55:CA:426:LEU:HD12	55:CA:441:TYR:CD1	2.06	0.90
55:CA:512:LEU:HD11	55:CA:524:ILE:CG2	2.00	0.90
1:AA:310:A:H2'	1:AA:312:G:N7	1.87	0.90
1:AA:1344:G:H4'	1:AA:1384:A:N1	1.86	0.90
1:AA:1624:G:C2	1:AA:1625:C:N4	2.39	0.90
1:AA:1775:U:O2'	1:AA:1776:G:H5'	1.72	0.90
1:AA:2651:C:H2'	1:AA:2652:C:H5''	1.53	0.90
4:AD:95:LEU:HD22	4:AD:96:HIS:N	1.86	0.90
4:AD:142:VAL:C	4:AD:163:ALA:HB3	1.96	0.90
4:AD:155:LEU:HG	4:AD:157:ARG:NE	1.85	0.90
6:AF:74:ARG:NH2	6:AF:75:HIS:HA	1.86	0.90
7:AG:116:ASP:HB3	7:AG:118:ARG:HH21	1.37	0.90
12:AL:96:THR:HG22	12:AL:97:ARG:N	1.86	0.90
19:AS:34:GLU:HA	19:AS:62:LEU:O	1.69	0.90
23:AW:48:PHE:CZ	23:AW:86:VAL:HG11	2.05	0.90
34:BA:587:G:H1'	34:BA:755:G:H22	1.29	0.90
34:BA:633:G:H2'	34:BA:634:C:H6	1.34	0.90
34:BA:1313:U:N3	34:BA:1324:A:C2	2.28	0.90
34:BA:1317:C:C2	34:BA:1318:A:O4'	2.24	0.90
34:BA:1413:A:H2	34:BA:1487:G:N2	1.43	0.90
37:BH:20:TYR:HD1	37:BH:21:LEU:H	1.09	0.90
37:BH:100:ARG:NH2	37:BH:137:SER:HA	1.86	0.90
47:BR:45:ARG:HB2	47:BR:45:ARG:NH1	1.85	0.90
52:BW:3:ARG:O	52:BW:42:PRO:HD3	1.70	0.90
55:CA:9:ALA:HB2	55:CA:73:VAL:HG22	0.91	0.90
55:CA:102:PHE:CE2	55:CA:133:PRO:HD2	2.06	0.90
55:CA:207:MET:HE3	55:CA:224:GLY:CA	2.01	0.90
55:CA:207:MET:HB2	55:CA:226:ILE:HD12	1.51	0.90
1:AA:1105:U:H4'	1:AA:1106:G:O5'	1.64	0.90
1:AA:1773:A:C6	1:AA:1829:A:H1'	2.05	0.90
1:AA:2320:A:H5'	1:AA:2321:G:C5	2.07	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:96:ARG:O	7:AG:99:MET:HB2	1.72	0.90
8:AH:115:VAL:HG13	8:AH:116:GLU:H	1.35	0.90
11:AK:16:ILE:HB	11:AK:54:VAL:HG23	1.50	0.90
11:AK:23:LEU:HD12	11:AK:63:THR:CG2	2.01	0.90
13:AM:93:GLY:HA2	13:AM:112:LEU:CD1	2.01	0.90
14:AN:134:ARG:NH2	14:AN:137:TYR:HD1	1.69	0.90
18:AR:93:LYS:N	19:AS:10:LYS:HZ2	1.70	0.90
34:BA:275:G:H5'	50:BU:14:LYS:NZ	1.86	0.90
34:BA:1454:G:H2'	34:BA:1455:G:N7	1.86	0.90
34:BA:1454:G:C6	34:BA:1455:G:C6	2.58	0.90
34:BA:1459:C:OP2	53:BX:31:SER:HB2	1.70	0.90
35:BF:115:LEU:HD12	35:BF:118:LEU:HD13	1.50	0.90
35:BF:118:LEU:HD13	35:BF:142:LEU:HD12	1.52	0.90
35:BF:135:GLN:C	35:BF:139:LYS:HZ2	1.78	0.90
39:BJ:76:ALA:HB3	39:BJ:80:ARG:HH22	1.35	0.90
40:BK:135:VAL:O	40:BK:138:LYS:HB3	1.71	0.90
45:BP:105:TYR:O	55:CA:329:ARG:CZ	2.18	0.90
1:AA:961:C:N4	1:AA:2031:A:N3	2.19	0.90
1:AA:1697:G:C8	1:AA:1698:A:H5''	2.06	0.90
1:AA:2393:A:OP2	31:Ae:32:LEU:HD11	1.72	0.90
1:AA:2618:G:N3	5:AE:150:VAL:HG11	1.86	0.90
3:AC:76:ALA:HB2	3:AC:153:ILE:CD1	2.01	0.90
5:AE:119:ARG:CZ	5:AE:155:LYS:HB3	2.00	0.90
7:AG:5:VAL:HG12	7:AG:9:ARG:NH2	1.87	0.90
8:AH:19:VAL:HG12	8:AH:24:VAL:HG12	1.51	0.90
8:AH:35:VAL:HG21	8:AH:72:ILE:HG23	1.52	0.90
10:AJ:122:ALA:HA	10:AJ:126:MET:HB2	1.50	0.90
12:AL:77:ILE:CG2	17:AQ:65:LYS:HE2	2.00	0.90
15:AO:33:ARG:HB2	15:AO:113:LEU:HD11	1.51	0.90
15:AO:57:ARG:HE	15:AO:62:ALA:HB2	1.35	0.90
26:AZ:41:PRO:HA	26:AZ:44:ARG:HH21	1.35	0.90
34:BA:414:A:H2'	34:BA:415:A:H8	1.37	0.90
34:BA:857:C:H2'	34:BA:858:G:O4'	1.71	0.90
34:BA:1245:A:H2'	34:BA:1246:C:C6	2.06	0.90
38:BI:71:LEU:HD11	38:BI:74:GLY:HA2	1.52	0.90
41:BL:28:ALA:C	41:BL:32:LYS:HD2	1.97	0.90
47:BR:26:ARG:HB2	47:BR:43:CYS:HB2	1.54	0.90
48:BS:34:LEU:HG	48:BS:35:ARG:H	1.37	0.90
55:CA:8:ILE:HG23	55:CA:72:ILE:HD13	1.52	0.90
55:CA:137:PRO:HB2	55:CA:176:HIS:NE2	1.86	0.90
55:CA:514:HIS:CG	55:CA:515:GLY:HA2	2.05	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:49:A:H5'	1:AA:50:U:OP1	1.71	0.90
1:AA:532:A:OP1	1:AA:2021:C:N4	2.04	0.90
1:AA:1044:G:N3	1:AA:1046:A:N7	2.20	0.90
1:AA:1186:G:H3'	1:AA:1187:G:C8	2.05	0.90
1:AA:2286:A:H2	29:Ac:27:LYS:CB	1.84	0.90
1:AA:2661:G:H5''	55:CA:14:VAL:HG13	1.51	0.90
1:AA:2666:C:H5	1:AA:2667:C:H5	0.99	0.90
3:AC:38:ASP:OD2	3:AC:178:ALA:HB3	1.71	0.90
4:AD:5:LYS:NZ	4:AD:31:LYS:HZ1	1.70	0.90
5:AE:107:THR:O	5:AE:190:GLY:HA3	1.71	0.90
6:AF:121:GLY:HA3	6:AF:191:ARG:HE	1.37	0.90
6:AF:201:VAL:HG12	6:AF:205:ARG:HE	1.36	0.90
10:AJ:74:ALA:O	10:AJ:78:ILE:HG13	1.72	0.90
11:AK:38:HIS:HB3	11:AK:48:MET:HE3	1.54	0.90
13:AM:13:ASN:HD22	13:AM:14:LYS:H	1.12	0.90
15:AO:77:ARG:HH11	15:AO:77:ARG:CB	1.84	0.90
17:AQ:52:ILE:HA	17:AQ:66:VAL:CG1	2.01	0.90
19:AS:62:LEU:HD11	19:AS:98:GLU:HG2	1.52	0.90
21:AU:92:LEU:HD12	21:AU:92:LEU:H	1.34	0.90
25:AY:27:LEU:CA	25:AY:30:LEU:HG	2.01	0.90
27:Aa:13:ARG:O	27:Aa:14:ILE:HG12	1.70	0.90
34:BA:573:A:H2'	34:BA:574:A:C8	2.07	0.90
34:BA:697:U:H2'	34:BA:698:G:C8	2.06	0.90
34:BA:787:A:H2'	34:BA:788:U:H5'	1.54	0.90
34:BA:1106:G:H2'	34:BA:1107:C:H6	1.30	0.90
34:BA:1312:G:C6	34:BA:1326:C:N4	2.40	0.90
36:BG:60:ALA:HB2	43:BN:92:THR:OG1	1.70	0.90
37:BH:91:SER:HA	37:BH:94:LEU:HD12	1.53	0.90
39:BJ:33:TYR:CG	39:BJ:75:LEU:HG	2.06	0.90
40:BK:125:MET:HG3	40:BK:126:ASP:H	1.35	0.90
41:BL:104:ARG:HG2	41:BL:104:ARG:HH11	1.36	0.90
53:BX:13:LEU:HB2	53:BX:17:ARG:HH21	1.33	0.90
54:BY:14:TRP:HZ3	54:BY:15:ARG:CZ	1.83	0.90
55:CA:89:MET:HB3	55:CA:119:TYR:HE2	1.34	0.90
1:AA:64:A:N3	21:AU:66:LEU:HD22	1.87	0.90
1:AA:832:G:H2'	1:AA:833:U:H5	1.33	0.90
1:AA:976:C:C5'	1:AA:1156:A:H62	1.85	0.90
1:AA:1055:G:O6	1:AA:1056:G:N2	2.04	0.90
1:AA:1059:G:C2'	10:AJ:75:SER:N	2.33	0.90
1:AA:1530:G:H2'	1:AA:1531:C:C6	2.06	0.90
1:AA:1841:U:H2'	1:AA:1842:G:C8	2.06	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2311:A:H3'	1:AA:2312:U:H5	1.35	0.90
4:AD:120:GLY:O	4:AD:122:ASP:N	2.05	0.90
7:AG:76:SER:O	7:AG:83:ARG:HG3	1.71	0.90
11:AK:67:LEU:H	11:AK:87:LEU:HD21	1.35	0.90
15:AO:20:LEU:HD13	15:AO:20:LEU:C	1.97	0.90
20:AT:69:LEU:HD12	20:AT:109:GLU:OE2	1.72	0.90
22:AV:2:ARG:HD2	22:AV:3:VAL:N	1.86	0.90
34:BA:703:G:H4'	34:BA:704:A:O5'	1.70	0.90
34:BA:789:U:C6	34:BA:790:A:H5''	2.07	0.90
34:BA:1455:G:C2'	34:BA:1459:C:H5'	2.02	0.90
35:BF:82:ARG:HD2	35:BF:92:TYR:OH	1.70	0.90
35:BF:102:LEU:HD22	35:BF:176:GLU:HB3	1.51	0.90
36:BG:85:ARG:HH21	36:BG:89:GLU:HB2	1.33	0.90
46:BQ:48:LEU:CD1	46:BQ:53:VAL:HG22	2.01	0.90
53:BX:50:GLU:HG3	53:BX:54:LYS:HE3	1.51	0.90
55:CA:207:MET:HB2	55:CA:226:ILE:CD1	2.01	0.90
1:AA:468:G:H2'	1:AA:469:G:O4'	1.72	0.90
1:AA:672:C:H3'	13:AM:38:GLN:HE22	1.35	0.90
1:AA:2314:C:H2'	1:AA:2315:G:H8	1.37	0.90
1:AA:2408:U:O5'	1:AA:2408:U:H6	1.52	0.90
1:AA:2659:G:C2'	1:AA:2663:G:H22	1.85	0.90
4:AD:183:ARG:CG	4:AD:268:ARG:HB2	2.01	0.90
9:AI:51:LEU:CB	9:AI:90:ALA:CB	2.50	0.90
10:AJ:84:LEU:CD1	10:AJ:86:LYS:HE3	2.02	0.90
12:AL:64:ARG:NH2	12:AL:77:ILE:HB	1.85	0.90
16:AP:13:ARG:HD3	16:AP:90:GLY:O	1.72	0.90
19:AS:68:LYS:O	19:AS:69:LYS:HB2	1.71	0.90
29:Ac:19:ARG:NH1	29:Ac:19:ARG:HG2	1.80	0.90
34:BA:191(C):G:H2'	34:BA:191(D):U:C6	2.06	0.90
34:BA:570:G:HO2'	34:BA:819:A:H8	1.16	0.90
38:BI:51:VAL:O	38:BI:55:VAL:HG23	1.71	0.90
45:BP:84:LEU:CB	45:BP:104:VAL:HG11	2.02	0.90
45:BP:117:ARG:HG3	45:BP:117:ARG:HH11	1.37	0.90
55:CA:54:ILE:HD11	55:CA:211:GLN:HE22	1.35	0.90
55:CA:75:THR:HG22	55:CA:85:VAL:CG2	2.00	0.90
1:AA:450:G:H5'	6:AF:52:LYS:HD3	1.50	0.90
1:AA:554:U:H2'	1:AA:556:G:N7	1.87	0.90
1:AA:640:C:C2'	1:AA:641:C:H5''	2.01	0.90
1:AA:818:G:O2'	1:AA:819:A:H5''	1.71	0.90
1:AA:884:C:C1'	1:AA:885:C:O5'	2.19	0.90
1:AA:902:C:H2'	1:AA:903:C:N3	1.86	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:997:G:H5'	18:AR:92:ARG:HH11	1.37	0.90
1:AA:1802:A:N3	1:AA:1802:A:H2'	1.87	0.90
1:AA:2348:U:C3'	31:Ae:42:ARG:HH22	1.83	0.90
1:AA:2602:A:O2'	1:AA:2603:G:OP2	1.90	0.90
4:AD:37:LEU:CD2	4:AD:64:ILE:HG22	2.01	0.90
10:AJ:52:ILE:CG1	10:AJ:76:TYR:CD2	2.55	0.90
10:AJ:90:LYS:HB3	10:AJ:91:PRO:CD	2.02	0.90
12:AL:64:ARG:HH22	12:AL:77:ILE:CB	1.84	0.90
13:AM:76:LYS:HA	13:AM:101:VAL:HG11	1.52	0.90
16:AP:62:LYS:C	16:AP:64:GLU:N	2.21	0.90
18:AR:74:LEU:HD22	18:AR:78:THR:HG21	1.52	0.90
22:AV:2:ARG:HH21	22:AV:4:LYS:HB2	1.37	0.90
23:AW:152:ALA:HA	23:AW:155:LEU:CD1	2.01	0.90
24:AX:37:LEU:HG	24:AX:59:LEU:O	1.72	0.90
31:Ae:56:GLU:N	31:Ae:56:GLU:OE1	2.03	0.90
34:BA:384:G:H2'	34:BA:385:C:H6	1.34	0.90
34:BA:1346:A:H4'	34:BA:1347:G:O5'	1.72	0.90
41:BL:70:GLN:NE2	41:BL:72:PRO:HD2	1.85	0.90
52:BW:9:VAL:CG1	52:BW:41:VAL:HG23	2.02	0.90
55:CA:11:ILE:HD11	55:CA:95:VAL:HB	1.50	0.90
55:CA:156:GLU:N	55:CA:157:GLN:HB2	1.87	0.90
55:CA:381:ALA:HA	55:CA:578:VAL:C	1.96	0.90
1:AA:569:U:H5'	1:AA:946:G:H1'	1.51	0.90
1:AA:716:A:H1'	48:BS:44:LYS:HD3	1.46	0.90
1:AA:728:G:C2	1:AA:762:U:H3'	2.06	0.90
1:AA:1080:C:O2'	1:AA:1081:U:O4'	1.89	0.90
2:AB:51:G:H2'	2:AB:52:A:O5'	1.72	0.90
3:AC:91:ALA:HB2	3:AC:153:ILE:HG21	1.53	0.90
4:AD:258:LYS:HA	4:AD:261:LYS:HZ2	1.36	0.90
5:AE:195:LEU:HD13	5:AE:196:VAL:H	1.37	0.90
7:AG:57:ALA:HA	7:AG:68:PRO:N	1.87	0.90
9:AI:54:ALA:N	9:AI:85:ASP:HA	1.86	0.90
11:AK:4:TYR:CB	18:AR:64:ARG:HH12	1.84	0.90
14:AN:34:LEU:HD11	14:AN:105:GLU:HB2	1.51	0.90
14:AN:39:PRO:HG3	14:AN:127:ILE:HG12	1.54	0.90
17:AQ:15:VAL:HG13	17:AQ:81:PRO:HB3	1.54	0.90
17:AQ:30:VAL:HG23	17:AQ:90:GLN:HA	1.54	0.90
19:AS:43:GLU:H	19:AS:44:LYS:HZ1	1.00	0.90
26:AZ:10:LYS:HZ3	26:AZ:12:PRO:CG	1.85	0.90
29:Ac:16:CYS:HB3	29:Ac:49:HIS:ND1	1.87	0.90
34:BA:307:C:C4	34:BA:308:C:H5	1.89	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:599:C:C4'	41:BL:130:GLY:HA3	2.01	0.90
34:BA:1417:G:H2'	34:BA:1482:G:H22	1.33	0.90
37:BH:20:TYR:O	37:BH:22:LYS:N	2.05	0.90
37:BH:125:HIS:HB3	37:BH:152:SER:HB2	1.52	0.90
38:BI:48:ALA:HB1	38:BI:53:LEU:HB3	1.51	0.90
38:BI:102:ALA:HB2	38:BI:120:THR:HG22	1.54	0.90
55:CA:13:HIS:HD2	55:CA:108:GLN:HG2	1.06	0.90
55:CA:170:GLY:C	55:CA:182:ASP:CB	2.43	0.90
55:CA:322:GLU:HG3	55:CA:581:THR:CB	2.00	0.90
55:CA:379:GLU:CG	55:CA:581:THR:CB	2.38	0.90
55:CA:447:GLY:CA	55:CA:480:VAL:HG21	2.01	0.90
1:AA:739:G:O3'	1:AA:1784:A:N1	2.04	0.89
1:AA:789:A:H4'	1:AA:790:C:OP1	1.69	0.89
1:AA:852:G:H5'	26:AZ:45:GLY:HA3	1.54	0.89
1:AA:1498:C:H6	1:AA:1576:U:H4'	1.31	0.89
1:AA:1956:U:H2'	1:AA:1957:C:H6	1.32	0.89
1:AA:2056:G:N2	28:Ab:4:HIS:HD2	1.70	0.89
1:AA:2326:C:N3	1:AA:2389:G:N1	2.19	0.89
1:AA:2329:G:N2	1:AA:2386:C:H42	1.69	0.89
1:AA:2553:G:N2	1:AA:2554:U:C1'	2.35	0.89
1:AA:2731:G:H4'	5:AE:168:MET:SD	2.12	0.89
4:AD:258:LYS:HA	4:AD:261:LYS:NZ	1.85	0.89
6:AF:4:VAL:O	6:AF:20:LEU:HD13	1.72	0.89
12:AL:101:PRO:HB3	34:BA:346:G:H5'	1.53	0.89
13:AM:122:PRO:HG3	13:AM:137:LYS:C	1.96	0.89
14:AN:12:GLN:HE21	14:AN:13:GLN:HG2	1.33	0.89
20:AT:5:ALA:HB3	20:AT:105:VAL:O	1.70	0.89
21:AU:64:LYS:O	21:AU:70:LEU:HG	1.72	0.89
34:BA:429:U:H4'	34:BA:430:A:O5'	1.71	0.89
35:BF:82:ARG:N	35:BF:94:ASN:HD21	1.70	0.89
42:BM:26:VAL:O	42:BM:32:ASP:HA	1.72	0.89
46:BQ:16:ASP:O	46:BQ:30:ALA:CB	2.20	0.89
49:BT:3:LYS:HE2	49:BT:24:ALA:HB2	1.52	0.89
55:CA:48:LEU:HD23	55:CA:50:LYS:HG3	1.51	0.89
55:CA:62:ALA:HB3	55:CA:63:ALA:C	1.96	0.89
55:CA:121:LEU:O	55:CA:123:PRO:HD3	1.72	0.89
1:AA:265:A:H8	1:AA:265:A:C3'	1.85	0.89
1:AA:1198:U:H2'	1:AA:1199:U:C5	2.07	0.89
1:AA:1206:G:H3'	1:AA:1206:G:C8	2.07	0.89
1:AA:1789:A:OP1	4:AD:222:ARG:HG2	1.71	0.89
1:AA:1943:U:N1	1:AA:1945:G:H5''	1.87	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1954:G:C2	1:AA:2551:C:H5''	2.08	0.89
1:AA:2332:U:H4'	1:AA:2336:A:N6	1.85	0.89
1:AA:2630:G:N3	1:AA:2894:G:N7	2.19	0.89
1:AA:2670:A:C2	1:AA:2671:A:C5	2.60	0.89
1:AA:2749:A:H4'	8:AH:62:LYS:HG3	1.53	0.89
2:AB:116:G:C4	2:AB:117:G:H1'	2.07	0.89
5:AE:53:PRO:HG3	5:AE:75:VAL:HG22	1.54	0.89
5:AE:66:HIS:CD2	5:AE:71:GLY:H	1.89	0.89
7:AG:16:ARG:HD2	7:AG:20:ILE:HG13	1.54	0.89
7:AG:57:ALA:HA	7:AG:68:PRO:HD2	1.54	0.89
9:AI:97:ALA:HB2	9:AI:132:ASP:O	1.71	0.89
10:AJ:14:ALA:CB	10:AJ:48:MET:O	2.20	0.89
17:AQ:3:ARG:O	17:AQ:7:ILE:HG12	1.70	0.89
24:AX:46:LYS:HG2	24:AX:77:ARG:O	1.72	0.89
32:Af:11:CYS:HB3	32:Af:32:HIS:NE2	1.87	0.89
34:BA:1461:G:H2'	34:BA:1462:G:C8	2.08	0.89
46:BQ:10:PRO:CA	46:BQ:45:VAL:HG11	2.01	0.89
55:CA:6:ARG:HB3	55:CA:69:ARG:O	1.71	0.89
55:CA:160:PHE:CE2	55:CA:162:ILE:HD12	2.07	0.89
1:AA:187:G:H2'	1:AA:1365:A:H2	1.38	0.89
1:AA:673:C:H2'	1:AA:674:G:H5'	1.53	0.89
1:AA:880:G:N7	1:AA:897:C:O2	2.05	0.89
1:AA:1024:G:N2	1:AA:1139:G:N1	2.20	0.89
1:AA:1075:C:H1'	10:AJ:90:LYS:HD2	1.53	0.89
1:AA:1075:C:H1'	10:AJ:90:LYS:HD3	0.91	0.89
1:AA:1078:U:H5''	10:AJ:137:GLU:CD	1.96	0.89
1:AA:1443:G:C2	1:AA:1444:G:H1'	2.07	0.89
1:AA:1443:G:N2	1:AA:1444:G:H1'	1.87	0.89
1:AA:1612:C:O2'	30:Ad:5:TRP:HB3	1.70	0.89
1:AA:2052:G:H1'	5:AE:149:ARG:C	1.97	0.89
1:AA:2056:G:N2	28:Ab:4:HIS:CD2	2.40	0.89
1:AA:2064:C:H1'	1:AA:2450:A:H62	1.36	0.89
1:AA:2083:G:H2'	1:AA:2084:C:H6	1.35	0.89
1:AA:2331:G:O3'	24:AX:43:THR:HB	1.73	0.89
1:AA:2597:G:C4'	4:AD:242:ARG:HE	1.85	0.89
1:AA:2636:U:H4'	5:AE:79:ARG:HH11	1.36	0.89
1:AA:2786:U:O2	5:AE:61:ARG:HG3	1.72	0.89
4:AD:111:LEU:HB3	4:AD:115:GLN:HE22	1.37	0.89
4:AD:117:VAL:HG13	4:AD:129:ASN:OD1	1.71	0.89
4:AD:156:ALA:O	4:AD:158:ALA:N	2.05	0.89
6:AF:18:ARG:C	6:AF:19:GLU:HG3	1.97	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:33:LEU:O	6:AF:36:VAL:HG12	1.71	0.89
8:AH:6:ARG:HA	8:AH:6:ARG:NH1	1.88	0.89
11:AK:73:THR:HB	11:AK:75:TYR:HE1	1.36	0.89
16:AP:62:LYS:HD2	16:AP:64:GLU:CB	2.01	0.89
19:AS:40:LEU:CA	19:AS:54:GLY:HA3	2.00	0.89
34:BA:1188:A:H5'	43:BN:61:GLU:OE2	1.73	0.89
36:BG:108:ASN:ND2	36:BG:110:ASN:HB2	1.87	0.89
39:BJ:81:ILE:HG22	39:BJ:82:ARG:N	1.86	0.89
41:BL:46:LYS:NZ	41:BL:64:LYS:HA	1.88	0.89
50:BU:75:ARG:HH22	50:BU:77:VAL:HG22	1.35	0.89
55:CA:486:GLY:O	55:CA:527:HIS:N	2.05	0.89
1:AA:70:G:H4'	1:AA:71:A:C5'	2.02	0.89
1:AA:198:C:HO2'	1:AA:199:A:H8	0.91	0.89
1:AA:894:C:O2'	1:AA:895:U:H5'	1.72	0.89
1:AA:1052:C:N3	1:AA:1108:U:O2	2.06	0.89
1:AA:1375:C:H2'	1:AA:1376:C:H6	1.36	0.89
1:AA:1637:A:H4'	1:AA:2711:A:O2'	0.71	0.89
1:AA:2175:C:H1'	3:AC:218:MET:HA	1.53	0.89
1:AA:2893:G:O5'	1:AA:2894:G:OP1	1.89	0.89
3:AC:33:ALA:O	3:AC:39:GLU:HB2	1.72	0.89
4:AD:181:GLU:HB3	4:AD:268:ARG:HE	1.37	0.89
9:AI:51:LEU:HA	9:AI:89:ALA:O	1.73	0.89
12:AL:15:GLY:CA	12:AL:52:VAL:HG21	2.01	0.89
18:AR:57:PHE:HA	18:AR:60:LEU:CG	2.00	0.89
22:AV:95:LYS:HG3	22:AV:103:GLY:CA	2.02	0.89
25:AY:23:LYS:O	25:AY:26:GLU:HB3	1.71	0.89
34:BA:828:A:H2'	34:BA:829:G:O4'	1.71	0.89
35:BF:71:VAL:HG13	35:BF:93:VAL:O	1.71	0.89
40:BK:15:ASP:CG	40:BK:23:VAL:HG11	1.96	0.89
41:BL:85:ARG:HG2	41:BL:85:ARG:HH11	1.34	0.89
43:BN:68:HIS:HB3	43:BN:70:ARG:HH21	1.35	0.89
55:CA:21:LEU:CD2	55:CA:98:VAL:HG21	2.01	0.89
1:AA:751:A:H5'	20:AT:90:ARG:NH1	1.88	0.89
1:AA:1339:G:H5'	21:AU:16:LYS:HD3	1.54	0.89
1:AA:1785:A:OP1	1:AA:1982:C:H5'	1.72	0.89
1:AA:1996:C:C5'	1:AA:1996:C:H6	1.86	0.89
1:AA:2266:A:H5'	1:AA:2267:A:N3	1.85	0.89
1:AA:2512:C:H5''	5:AE:120:TRP:CH2	2.07	0.89
4:AD:177:LEU:HD11	4:AD:268:ARG:NH2	1.87	0.89
6:AF:157:VAL:HG22	6:AF:194:MET:HB3	1.52	0.89
7:AG:8:LYS:NZ	7:AG:103:LEU:HG	1.87	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:44:GLY:O	7:AG:47:LYS:HB3	1.71	0.89
7:AG:111:LEU:HB3	7:AG:112:PRO:CD	2.02	0.89
8:AH:7:LEU:CB	8:AH:52:VAL:HG13	2.02	0.89
9:AI:140:GLY:CA	33:Ag:137:UNK:N	2.35	0.89
16:AP:8:GLU:O	16:AP:9:ARG:C	2.11	0.89
16:AP:11:LYS:C	16:AP:14:VAL:HB	1.97	0.89
18:AR:13:LYS:HD2	18:AR:13:LYS:N	1.80	0.89
20:AT:11:ARG:HH11	20:AT:11:ARG:H	1.10	0.89
20:AT:14:PRO:O	20:AT:17:VAL:HG22	1.73	0.89
21:AU:85:PRO:CG	21:AU:87:GLN:HG2	2.01	0.89
34:BA:1412:C:N3	34:BA:1489:G:N1	2.17	0.89
37:BH:170:VAL:H	37:BH:176:LEU:HD22	1.34	0.89
46:BQ:10:PRO:O	46:BQ:45:VAL:HG11	1.69	0.89
46:BQ:80:ARG:CB	52:BW:65:ASN:HD22	1.85	0.89
52:BW:20:LEU:O	52:BW:22:LEU:N	2.05	0.89
53:BX:12:ALA:N	53:BX:13:LEU:HD12	1.86	0.89
55:CA:380:LEU:CD1	55:CA:580:VAL:HG21	2.00	0.89
1:AA:64:A:O2'	21:AU:71:GLY:HA3	1.72	0.89
1:AA:270(I):G:C2	1:AA:270(J):G:H1'	2.07	0.89
1:AA:392:C:H2'	1:AA:393:C:H6	1.38	0.89
1:AA:848:G:H2'	1:AA:849:A:C8	2.08	0.89
1:AA:1019:U:P	1:AA:1036:G:C1'	2.61	0.89
1:AA:1036:G:C2	1:AA:1120:G:N1	2.40	0.89
1:AA:1265:A:H1'	1:AA:1267:U:C4	2.08	0.89
1:AA:1454:U:H5'	1:AA:1455:G:OP2	1.72	0.89
1:AA:1475:G:N2	1:AA:1477:A:H62	1.70	0.89
1:AA:1820:U:C2	4:AD:202:LYS:HG2	2.07	0.89
1:AA:2020:A:H2'	1:AA:2021:C:H5''	1.53	0.89
1:AA:2496:C:OP1	14:AN:83:MET:HE1	1.73	0.89
1:AA:2852:G:H2'	1:AA:2853:C:C6	2.08	0.89
5:AE:44:TYR:HB3	5:AE:82:ARG:NH2	1.88	0.89
5:AE:117:MET:CG	5:AE:136:ARG:HE	1.84	0.89
14:AN:96:VAL:HG12	14:AN:98:LYS:HZ3	1.37	0.89
15:AO:102:GLU:CD	15:AO:103:ARG:H	1.80	0.89
23:AW:104:PHE:CZ	23:AW:120:ILE:HG22	2.08	0.89
34:BA:7:G:N2	38:BI:121:LYS:HG3	1.88	0.89
34:BA:911:U:H2'	34:BA:912:C:C6	2.06	0.89
34:BA:1261:A:H61	34:BA:1274:G:C1'	1.85	0.89
34:BA:1320:C:C6	52:BW:36:ARG:CG	2.51	0.89
34:BA:1329:A:O3'	46:BQ:24:GLY:O	1.72	0.89
36:BG:40:ARG:HA	36:BG:43:LEU:HD13	1.55	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:18:LYS:HA	37:BH:33:MET:HE2	1.54	0.89
37:BH:127:THR:C	37:BH:146:ILE:HG22	1.98	0.89
41:BL:37:ARG:HD2	41:BL:38:ILE:HD13	1.55	0.89
41:BL:83:ILE:HA	41:BL:137:VAL:HG22	1.54	0.89
45:BP:83:VAL:HG23	45:BP:104:VAL:HB	1.53	0.89
46:BQ:16:ASP:H	46:BQ:34:LEU:HD11	1.04	0.89
53:BX:73:HIS:H	53:BX:76:ALA:HB3	1.36	0.89
1:AA:893:C:C6	1:AA:894:C:H5	1.89	0.89
1:AA:1725:G:N2	1:AA:1726:G:C1'	2.36	0.89
1:AA:1824:G:H2'	1:AA:1825:A:O4'	1.72	0.89
1:AA:1863:G:H2'	1:AA:1864:U:C6	2.07	0.89
1:AA:1913:A:N7	34:BA:1494:G:OP1	2.05	0.89
1:AA:1931:U:C5	1:AA:1932:A:N7	2.41	0.89
1:AA:1981:A:H5''	1:AA:1982:C:OP2	1.71	0.89
1:AA:2178:C:H5''	3:AC:46:LYS:HZ2	1.38	0.89
1:AA:2227:A:C1'	4:AD:262:ARG:HD2	2.03	0.89
3:AC:62:VAL:HB	3:AC:195:ALA:HB3	1.53	0.89
6:AF:164:ARG:HB2	6:AF:177:ALA:CB	2.01	0.89
7:AG:74:LYS:HD3	7:AG:87:PRO:HG3	1.53	0.89
10:AJ:72:PRO:CG	10:AJ:77:LEU:HD22	1.49	0.89
11:AK:109:LYS:HZ2	11:AK:110:GLY:N	1.70	0.89
18:AR:112:ARG:HH12	19:AS:50:PRO:CG	1.83	0.89
19:AS:18:LEU:H	19:AS:18:LEU:HD23	1.37	0.89
19:AS:49:THR:HG22	19:AS:50:PRO:HD2	1.52	0.89
23:AW:10:ARG:CZ	23:AW:36:LYS:H	1.86	0.89
31:Ae:39:LYS:HB3	31:Ae:39:LYS:HZ3	1.35	0.89
34:BA:21:G:H2'	34:BA:22:G:H8	1.38	0.89
34:BA:942:G:H21	42:BM:124:GLN:HE22	1.12	0.89
37:BH:105:VAL:HG21	37:BH:121:VAL:CG2	2.03	0.89
38:BI:70:PRO:HB2	38:BI:143:ARG:HA	1.52	0.89
55:CA:248:ASN:OD1	55:CA:276:ILE:CD1	2.19	0.89
1:AA:242:G:H8	31:Ae:4:MET:HG3	1.37	0.89
1:AA:365:C:H2'	1:AA:366:C:C6	2.06	0.89
1:AA:450:G:H5''	1:AA:451:C:OP2	1.73	0.89
1:AA:748:G:H5'	20:AT:88:ARG:NH2	1.88	0.89
1:AA:1471:A:H62	1:AA:1519:G:N2	1.70	0.89
1:AA:1935:G:H1	1:AA:1962:C:H2'	1.36	0.89
1:AA:1992:G:H1'	1:AA:1993:U:C5	2.07	0.89
1:AA:2244:U:H1'	1:AA:2434:A:C5	2.07	0.89
1:AA:2443:C:H2'	1:AA:2444:G:H8	1.36	0.89
1:AA:2472:G:H5''	55:CA:528:SER:O	1.72	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:9:TYR:OH	4:AD:91:ARG:NH2	2.04	0.89
5:AE:36:ARG:HD2	5:AE:41:LYS:HZ2	1.33	0.89
6:AF:131:GLY:HA2	6:AF:138:GLU:CB	2.02	0.89
13:AM:113:LYS:NZ	13:AM:115:LEU:HD12	1.88	0.89
17:AQ:21:GLU:O	17:AQ:23:ARG:HD3	1.72	0.89
22:AV:12:THR:HA	22:AV:73:ARG:HD2	1.52	0.89
23:AW:48:PHE:HD1	23:AW:54:HIS:HE2	1.20	0.89
24:AX:68:GLU:HB3	24:AX:80:HIS:O	1.70	0.89
34:BA:61:G:H2'	34:BA:62:U:C6	2.08	0.89
34:BA:105:G:H2'	34:BA:106:C:C6	2.08	0.89
34:BA:1028:C:H2'	34:BA:1028(A):C:C6	2.08	0.89
34:BA:1308:U:C3'	46:BQ:92:HIS:HE2	1.85	0.89
35:BF:15:VAL:HG22	35:BF:209:ARG:NE	1.88	0.89
36:BG:134:ILE:O	36:BG:138:VAL:HG23	1.71	0.89
40:BK:63:LYS:HA	40:BK:63:LYS:HE2	1.54	0.89
41:BL:14:ARG:HA	41:BL:17:THR:OG1	1.72	0.89
41:BL:32:LYS:HG2	41:BL:33:GLU:H	1.37	0.89
53:BX:44:ALA:CB	53:BX:91:LEU:HD12	2.02	0.89
55:CA:512:LEU:CD1	55:CA:518:VAL:CG1	2.51	0.89
1:AA:387:U:OP2	27:Aa:31:ILE:HG21	1.73	0.89
1:AA:1817:G:P	4:AD:88:ARG:HH12	1.96	0.89
1:AA:1824:G:H21	4:AD:253:GLN:HG2	1.38	0.89
1:AA:2286:A:H62	29:Ac:32:ASN:N	1.70	0.89
1:AA:2468:G:H3'	1:AA:2476:A:C2	2.08	0.89
1:AA:2637:U:C5'	5:AE:81:ILE:HD11	2.03	0.89
3:AC:116:THR:HA	3:AC:146:GLY:O	1.72	0.89
11:AK:97:ARG:HA	11:AK:100:GLU:CG	2.03	0.89
12:AL:107:ARG:O	12:AL:109:LYS:HE2	1.72	0.89
14:AN:26:TYR:HD1	14:AN:27:VAL:H	1.01	0.89
14:AN:42:ILE:HD13	14:AN:43:THR:N	1.88	0.89
18:AR:28:ARG:HB2	18:AR:38:THR:HG21	1.53	0.89
18:AR:59:ARG:HA	18:AR:62:ILE:HD12	1.54	0.89
19:AS:18:LEU:HD12	19:AS:66:ARG:HH12	1.33	0.89
34:BA:108:G:H5''	34:BA:109:A:H5''	1.51	0.89
34:BA:164:U:H2'	34:BA:165:C:H5	1.38	0.89
34:BA:508:C:HO2'	34:BA:509:A:H8	0.94	0.89
34:BA:1101:A:H4'	34:BA:1102:A:O5'	1.73	0.89
34:BA:1198:G:H2'	34:BA:1199:U:O4'	1.72	0.89
34:BA:1308:U:H3	34:BA:1309:G:H8	1.11	0.89
35:BF:97:TRP:HZ2	35:BF:102:LEU:HD13	1.38	0.89
46:BQ:85:GLY:O	52:BW:74:PHE:CA	2.19	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:28:GLN:O	48:BS:32:LEU:HD23	1.72	0.89
51:BV:18:ARG:HH21	51:BV:21:LYS:HB2	1.37	0.89
55:CA:514:HIS:CD2	55:CA:515:GLY:HA2	2.06	0.89
1:AA:691:C:H1'	4:AD:45:ASN:HD21	1.37	0.89
1:AA:728:G:N1	1:AA:762:U:H3'	1.88	0.89
1:AA:1068:G:H1'	1:AA:1096:A:H4'	1.54	0.89
1:AA:1083:U:H1'	1:AA:1085:A:C6	2.07	0.89
1:AA:1788:C:C4	1:AA:1789:A:C8	2.60	0.89
1:AA:1917:U:O4	34:BA:1409:C:O4'	1.89	0.89
1:AA:1996:C:H5''	1:AA:1996:C:C6	2.08	0.89
1:AA:2329:G:H22	1:AA:2386:C:H42	1.20	0.89
1:AA:2425:A:OP2	1:AA:2427:C:H5''	1.71	0.89
1:AA:2468:G:H22	1:AA:2481:G:H2'	1.37	0.89
1:AA:2514:U:H2'	1:AA:2515:C:C6	2.08	0.89
1:AA:2746:U:H5'	8:AH:139:GLN:HA	1.54	0.89
4:AD:11:PRO:HB2	4:AD:24:ILE:HB	1.53	0.89
10:AJ:72:PRO:CG	10:AJ:77:LEU:HD21	1.52	0.89
15:AO:55:ALA:HB2	15:AO:79:LEU:HD11	1.55	0.89
16:AP:20:ARG:HH11	16:AP:20:ARG:CB	1.84	0.89
19:AS:62:LEU:HD12	19:AS:96:ILE:CB	1.98	0.89
20:AT:33:ARG:HE	20:AT:33:ARG:HA	1.35	0.89
23:AW:4:ARG:HE	23:AW:44:PHE:HZ	0.94	0.89
23:AW:151:HIS:CB	23:AW:170:THR:H	1.86	0.89
30:Ad:33:ARG:HG2	30:Ad:37:LYS:HD3	1.53	0.89
34:BA:1509:C:O2'	34:BA:1510:U:H5'	1.73	0.89
36:BG:38:ARG:HB2	36:BG:94:LEU:HD21	1.54	0.89
36:BG:38:ARG:HB2	36:BG:94:LEU:HD11	1.53	0.89
41:BL:38:ILE:HG13	41:BL:118:VAL:CG1	2.03	0.89
43:BN:50:ILE:HB	47:BR:41:ARG:NE	1.88	0.89
55:CA:15:ASP:OD2	55:CA:16:HIS:CD2	2.25	0.89
55:CA:253:LYS:HE3	55:CA:269:GLU:HB3	1.53	0.89
1:AA:231:C:N4	1:AA:232:G:N2	2.21	0.88
1:AA:592:G:H5'	1:AA:593:G:OP2	1.73	0.88
1:AA:613:U:H5'	1:AA:614:U:C5	2.08	0.88
1:AA:884:C:H1'	1:AA:885:C:O5'	1.72	0.88
1:AA:1042:G:C5	1:AA:1113:U:C4	2.46	0.88
1:AA:1585:C:H5''	1:AA:1586:A:OP1	1.74	0.88
1:AA:1789:A:H3'	1:AA:1790:C:O4'	1.74	0.88
5:AE:100:GLU:O	5:AE:172:VAL:HG13	1.73	0.88
6:AF:106:ARG:HG3	6:AF:107:LYS:N	1.87	0.88
7:AG:59:GLU:OE2	7:AG:152:LEU:HD22	1.72	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:43:VAL:HG22	8:AH:52:VAL:CA	2.03	0.88
8:AH:45:VAL:HG22	8:AH:50:VAL:HG13	1.55	0.88
10:AJ:72:PRO:CD	10:AJ:77:LEU:CG	2.40	0.88
16:AP:9:ARG:HD3	16:AP:12:PHE:HE2	1.35	0.88
18:AR:85:LYS:HD3	18:AR:116:ALA:O	1.72	0.88
22:AV:28:LYS:HE2	22:AV:28:LYS:N	1.88	0.88
26:AZ:3:ARG:HH22	26:AZ:59:VAL:HG11	1.35	0.88
34:BA:346:G:H2'	34:BA:347:G:O4'	1.72	0.88
34:BA:598:U:H4'	41:BL:94:TYR:HD2	1.37	0.88
41:BL:14:ARG:O	41:BL:17:THR:HB	1.73	0.88
51:BV:73:ALA:O	51:BV:79:LEU:HD11	1.73	0.88
55:CA:172:ALA:HB1	55:CA:176:HIS:H	1.38	0.88
55:CA:226:ILE:HB	55:CA:267:LEU:HA	1.55	0.88
55:CA:496:ALA:HB3	55:CA:514:HIS:HA	1.53	0.88
1:AA:6:A:C2	1:AA:2897:U:H2'	2.08	0.88
1:AA:242:G:H8	31:Ae:4:MET:CG	1.86	0.88
1:AA:557:U:O2'	11:AK:112:LEU:HD11	1.73	0.88
1:AA:1657:C:H2'	1:AA:1658:C:H6	1.37	0.88
1:AA:2357:U:H2'	1:AA:2358:G:H5''	1.55	0.88
1:AA:2459:A:C2'	1:AA:2460:U:O4'	2.18	0.88
3:AC:183:GLU:H	3:AC:183:GLU:CD	1.80	0.88
4:AD:246:PRO:HD2	4:AD:250:TRP:CB	2.01	0.88
6:AF:66:PRO:O	6:AF:68:LYS:N	2.06	0.88
7:AG:101:ILE:O	7:AG:104:GLU:HB3	1.73	0.88
10:AJ:78:ILE:CG2	10:AJ:127:ILE:HG12	2.02	0.88
11:AK:127:ASP:H	11:AK:129:PRO:HD2	1.37	0.88
15:AO:46:GLY:C	15:AO:49:ASP:HB3	1.97	0.88
19:AS:67:GLY:O	19:AS:68:LYS:HB2	1.73	0.88
20:AT:36:LEU:HD21	20:AT:47:VAL:HB	1.55	0.88
20:AT:76:VAL:HG23	20:AT:103:ILE:HA	1.53	0.88
23:AW:175:VAL:HG22	23:AW:176:PRO:HD2	1.54	0.88
34:BA:43:C:C5'	49:BT:12:LYS:HB3	2.01	0.88
34:BA:707:C:O2'	34:BA:708:C:H5'	1.72	0.88
34:BA:866:C:H5	34:BA:867:G:H1'	1.39	0.88
34:BA:942:G:H21	42:BM:124:GLN:NE2	1.71	0.88
34:BA:975:A:O2'	34:BA:976:G:OP2	1.91	0.88
34:BA:1238:A:H62	34:BA:1301:U:H3	1.21	0.88
34:BA:1455:G:OP1	53:BX:32:ALA:CA	2.21	0.88
36:BG:83:ARG:HG3	36:BG:87:LEU:HD11	1.55	0.88
42:BM:98:PRO:C	42:BM:100:GLY:H	1.79	0.88
55:CA:130:VAL:HG11	55:CA:164:TYR:HB3	1.54	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:204:PRO:O	55:CA:228:ARG:C	2.16	0.88
1:AA:574:C:O2'	1:AA:575:A:OP2	1.91	0.88
1:AA:1063:G:C8	1:AA:1064:C:H5	1.91	0.88
1:AA:1084:A:N7	1:AA:1085:A:C2	2.41	0.88
1:AA:1418:G:H1'	1:AA:1581:G:H21	1.38	0.88
1:AA:1479:G:H2'	1:AA:1480:G:H8	1.37	0.88
1:AA:1819:A:H1'	1:AA:1821:A:C2	2.07	0.88
1:AA:1909:C:C2	1:AA:1922:G:N1	2.30	0.88
1:AA:1931:U:C6	1:AA:1932:A:N7	2.41	0.88
2:AB:55:U:O2'	2:AB:56:G:H5'	1.74	0.88
3:AC:51:PRO:HB3	3:AC:165:ASN:HD21	1.35	0.88
4:AD:246:PRO:CG	4:AD:250:TRP:HB3	2.02	0.88
5:AE:100:GLU:H	5:AE:172:VAL:CG2	1.86	0.88
7:AG:110:ALA:HB1	7:AG:139:LEU:HG	1.55	0.88
9:AI:51:LEU:CB	9:AI:90:ALA:HB3	2.02	0.88
10:AJ:98:ARG:NH1	10:AJ:101:TRP:CD1	2.41	0.88
14:AN:8:LYS:HZ3	14:AN:11:LYS:NZ	1.71	0.88
20:AT:11:ARG:HB3	20:AT:11:ARG:NH1	1.88	0.88
29:Ac:20:ASN:HD21	29:Ac:43:CYS:N	1.70	0.88
34:BA:790:A:N6	34:BA:791:G:C2	2.40	0.88
34:BA:1329:A:P	46:BQ:29:ARG:HG2	2.12	0.88
34:BA:1499:A:C2'	34:BA:1500:A:H5'	2.03	0.88
35:BF:130:ARG:HB3	35:BF:131:PRO:HD2	1.53	0.88
37:BH:20:TYR:N	37:BH:33:MET:SD	2.47	0.88
37:BH:59:ARG:HA	37:BH:59:ARG:HH11	1.35	0.88
38:BI:121:LYS:NZ	38:BI:122:GLU:N	2.19	0.88
41:BL:45:ILE:HD11	41:BL:48:TYR:HB3	1.55	0.88
42:BM:25:LYS:O	42:BM:61:ALA:HB3	1.73	0.88
55:CA:19:THR:HA	55:CA:21:LEU:H	1.35	0.88
55:CA:48:LEU:HD21	55:CA:78:HIS:CE1	2.08	0.88
1:AA:2:G:C5	1:AA:2902:C:N4	2.40	0.88
1:AA:30:G:H2'	1:AA:31:C:O4'	1.72	0.88
1:AA:234:C:H42	1:AA:430:G:N2	1.69	0.88
1:AA:892:G:N3	1:AA:893:C:N3	2.20	0.88
1:AA:1180:C:OP2	1:AA:1180:C:H3'	1.71	0.88
1:AA:1312:U:H2'	1:AA:1313:U:C6	2.07	0.88
1:AA:1376:C:H2'	1:AA:1377:G:O4'	1.73	0.88
1:AA:2286:A:N6	29:Ac:29:ASN:O	2.05	0.88
4:AD:13:ARG:CZ	4:AD:19:ALA:HB1	2.02	0.88
4:AD:80:ALA:HB3	4:AD:94:LEU:O	1.73	0.88
10:AJ:51:ALA:HA	10:AJ:76:TYR:HD1	1.34	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:59:LYS:HB2	12:AL:84:ALA:O	1.73	0.88
14:AN:33:GLY:O	14:AN:131:ILE:HG23	1.73	0.88
14:AN:42:ILE:HD12	14:AN:47:ILE:CG1	2.03	0.88
14:AN:74:TYR:CZ	14:AN:94:VAL:HG22	2.09	0.88
17:AQ:110:ILE:HG12	34:BA:1431:C:OP1	1.74	0.88
27:Aa:8:LYS:HG2	27:Aa:9:LEU:H	1.38	0.88
30:Ad:33:ARG:O	30:Ad:37:LYS:HB2	1.73	0.88
34:BA:692:U:O2	34:BA:694:A:H3'	1.72	0.88
34:BA:1066:C:H3'	34:BA:1067:A:C8	2.08	0.88
35:BF:95:GLN:HG3	35:BF:148:TYR:CB	2.02	0.88
48:BS:75:PRO:HA	48:BS:78:TYR:HB3	1.53	0.88
53:BX:85:MET:HB2	53:BX:104:LEU:HD21	1.52	0.88
55:CA:205:PHE:CE2	55:CA:231:VAL:CG2	2.55	0.88
1:AA:988:A:H62	26:AZ:13:ILE:CG1	1.87	0.88
1:AA:1048:A:C2	1:AA:1113:U:O4'	2.25	0.88
1:AA:1082:U:N3	1:AA:1086:A:C2	2.41	0.88
1:AA:1179:C:O2'	1:AA:1180:C:H6	1.56	0.88
1:AA:1241:A:H5''	1:AA:1241:A:C2	2.08	0.88
1:AA:2028:U:H2'	1:AA:2029:G:C8	2.07	0.88
1:AA:2551:C:H2'	1:AA:2552:U:H6	1.39	0.88
1:AA:2674:G:O2'	1:AA:2675:A:H5'	1.73	0.88
5:AE:7:VAL:HG11	5:AE:196:VAL:HG23	1.52	0.88
6:AF:4:VAL:C	6:AF:20:LEU:CD1	2.45	0.88
7:AG:62:LEU:HD23	7:AG:143:GLU:CB	2.02	0.88
8:AH:25:LYS:HZ3	8:AH:32:GLU:HB2	1.37	0.88
17:AQ:39:ARG:CZ	34:BA:345:C:H3'	2.02	0.88
22:AV:52:SER:HB3	22:AV:56:PRO:CB	2.03	0.88
23:AW:6:LYS:HG2	23:AW:7:ALA:N	1.86	0.88
26:AZ:10:LYS:HE2	26:AZ:31:LEU:HD21	1.55	0.88
34:BA:545:C:O2'	34:BA:546:G:H5'	1.74	0.88
34:BA:650:G:O2'	34:BA:651:C:H5'	1.74	0.88
34:BA:1270:C:H1'	34:BA:1313:U:H4'	1.54	0.88
35:BF:61:LEU:HD11	35:BF:68:ILE:CD1	2.02	0.88
38:BI:43:LEU:HD23	38:BI:44:GLY:N	1.88	0.88
39:BJ:23:LYS:HA	39:BJ:26:ILE:HD12	1.53	0.88
39:BJ:76:ALA:HB1	39:BJ:80:ARG:NH1	1.87	0.88
44:BO:95:ILE:HA	44:BO:98:LEU:HG	1.54	0.88
49:BT:6:LEU:HD23	49:BT:17:TYR:HD2	1.37	0.88
49:BT:23:ASP:OD2	49:BT:33:ILE:HD11	1.71	0.88
55:CA:400:TYR:CD1	55:CA:444:PRO:N	2.42	0.88
1:AA:68:G:H2'	1:AA:69:C:H6	1.34	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:228:A:H2'	1:AA:229:A:H5'	1.55	0.88
1:AA:1138:G:N2	1:AA:1139:G:H1'	1.87	0.88
1:AA:1255:U:H5'	1:AA:1256:G:O5'	1.72	0.88
1:AA:1910:G:C8	1:AA:1921:G:N2	2.41	0.88
1:AA:1971:A:N3	4:AD:240:ALA:N	2.21	0.88
1:AA:2171:A:H4'	1:AA:2172:U:OP1	1.73	0.88
1:AA:2298:A:H2'	1:AA:2299:G:O4'	1.73	0.88
1:AA:2484:G:H1'	14:AN:124:LYS:HZ1	1.39	0.88
1:AA:2681:C:N4	1:AA:2725:A:H62	1.71	0.88
2:AB:43:C:H6	2:AB:43:C:O5'	1.56	0.88
4:AD:133:LEU:O	4:AD:136:ILE:HG13	1.72	0.88
8:AH:155:SER:HB2	8:AH:158:HIS:O	1.73	0.88
15:AO:97:VAL:HG13	15:AO:114:VAL:HG21	1.56	0.88
16:AP:16:ASN:O	16:AP:20:ARG:HG2	1.74	0.88
19:AS:6:LYS:HE2	19:AS:10:LYS:O	1.73	0.88
19:AS:68:LYS:HG2	19:AS:95:LEU:HD21	1.52	0.88
34:BA:256:U:H2'	34:BA:257:G:O4'	1.73	0.88
34:BA:1455:G:H2'	34:BA:1459:C:H5'	1.56	0.88
36:BG:53:ALA:HB2	36:BG:115:LEU:HD21	1.56	0.88
39:BJ:10:LEU:HD23	39:BJ:10:LEU:N	1.89	0.88
49:BT:39:TYR:CZ	49:BT:41:PRO:HG3	2.08	0.88
55:CA:8:ILE:C	55:CA:72:ILE:CG2	2.46	0.88
55:CA:13:HIS:CB	55:CA:109:THR:HG23	2.03	0.88
1:AA:64:A:O2'	1:AA:65:C:H5'	1.72	0.88
1:AA:223:A:N1	1:AA:407:G:O2'	2.06	0.88
1:AA:669:G:N3	1:AA:669:G:H2'	1.85	0.88
1:AA:943:U:OP1	1:AA:943:U:O4'	1.92	0.88
1:AA:1069:A:H4'	1:AA:1070:A:C5'	2.04	0.88
1:AA:1153:C:C2	1:AA:1154:G:N7	2.42	0.88
1:AA:1672:C:H3'	1:AA:1673:U:H5''	1.56	0.88
1:AA:1910:G:N2	1:AA:1921:G:N9	2.20	0.88
1:AA:1935:G:O2'	1:AA:1937:A:H2	1.57	0.88
1:AA:2346:A:H4'	1:AA:2383:G:H5''	1.56	0.88
1:AA:2433:A:H62	27:Aa:32:TYR:HE2	0.95	0.88
1:AA:2564:A:OP1	1:AA:2648:C:O2'	1.89	0.88
1:AA:2690:C:H6	1:AA:2690:C:H3'	1.37	0.88
3:AC:97:GLU:HG2	3:AC:122:ALA:HB3	1.54	0.88
4:AD:8:PRO:O	4:AD:25:THR:CA	2.17	0.88
4:AD:234:GLY:H	4:AD:241:PRO:HG2	1.38	0.88
6:AF:156:LEU:HD12	6:AF:167:ALA:CB	2.03	0.88
7:AG:41:GLN:HE22	7:AG:155:MET:CG	1.87	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:54:ALA:CB	9:AI:84:GLU:CA	2.39	0.88
11:AK:86:PRO:O	11:AK:89:LYS:HE3	1.74	0.88
11:AK:115:ARG:O	11:AK:118:LYS:HB2	1.74	0.88
34:BA:64:G:H4'	34:BA:65:U:C5'	2.02	0.88
34:BA:255:G:H4'	50:BU:16:GLN:O	1.71	0.88
34:BA:279:A:H1'	34:BA:281:G:C2	2.08	0.88
35:BF:74:LYS:CE	35:BF:76:GLN:HB2	2.04	0.88
46:BQ:13:LYS:HB3	46:BQ:17:VAL:HB	1.55	0.88
55:CA:99:VAL:HB	55:CA:127:ILE:HD13	1.56	0.88
55:CA:163:VAL:CG1	55:CA:172:ALA:C	2.30	0.88
1:AA:704:G:H21	1:AA:725:G:N2	1.72	0.88
1:AA:775:G:H2'	1:AA:794:G:C5	2.09	0.88
1:AA:792:G:N2	1:AA:2072:G:H1'	1.88	0.88
1:AA:966:G:C1'	1:AA:2267:A:N6	2.36	0.88
1:AA:1024:G:C5	1:AA:1025:G:C8	2.62	0.88
1:AA:1423:G:H2'	1:AA:1424:G:H8	1.35	0.88
1:AA:1996:C:O2'	5:AE:123:ALA:HB3	1.72	0.88
1:AA:2581:G:H1	1:AA:2610:C:H6	1.20	0.88
1:AA:2673:G:H2'	1:AA:2674:G:C8	2.08	0.88
1:AA:2781:A:H3'	1:AA:2781:A:C8	2.08	0.88
3:AC:18:LYS:HG2	3:AC:20:TYR:H	1.38	0.88
5:AE:23:VAL:HG23	5:AE:184:VAL:HG23	1.56	0.88
8:AH:11:VAL:HG23	8:AH:50:VAL:HG21	1.55	0.88
12:AL:7:TYR:CA	12:AL:18:LYS:HE3	2.04	0.88
20:AT:13:SER:O	20:AT:17:VAL:HG13	1.73	0.88
23:AW:24:LEU:O	23:AW:39:VAL:CB	2.21	0.88
23:AW:118:GLN:HE21	23:AW:120:ILE:HG23	1.38	0.88
27:Aa:5:ILE:HG22	27:Aa:7:PRO:CD	2.02	0.88
30:Ad:34:ARG:NH2	30:Ad:42:LEU:HA	1.87	0.88
31:Ae:22:VAL:HG12	31:Ae:23:VAL:N	1.89	0.88
31:Ae:50:LEU:HD23	31:Ae:51:ALA:N	1.89	0.88
34:BA:287:U:H2'	34:BA:287:U:O2	1.74	0.88
34:BA:562:C:HO2'	45:BP:15:ARG:HD3	1.39	0.88
34:BA:1192:C:H3'	34:BA:1192:C:C6	2.09	0.88
34:BA:1310:G:O6	34:BA:1327:C:C5	2.26	0.88
35:BF:212:GLN:HB3	35:BF:235:SER:OG	1.74	0.88
37:BH:191:ARG:NH2	37:BH:194:LEU:O	2.07	0.88
39:BJ:26:ILE:O	39:BJ:30:LEU:HG	1.72	0.88
45:BP:71:PRO:HD2	45:BP:100:ILE:HG12	1.56	0.88
55:CA:379:GLU:CB	55:CA:581:THR:HG22	2.03	0.88
1:AA:152:G:N2	1:AA:175:G:H1'	1.89	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1105:U:N3	1:AA:1107:G:C6	2.41	0.88
1:AA:1492:G:N2	1:AA:1499:C:C4	2.41	0.88
1:AA:1524:G:H2'	1:AA:1525:G:H8	1.37	0.88
1:AA:1917:U:O4	34:BA:1409:C:C4'	1.97	0.88
1:AA:2900:A:H2'	1:AA:2901:C:C6	2.09	0.88
4:AD:17:THR:O	4:AD:19:ALA:N	2.07	0.88
5:AE:147:PRO:HG2	5:AE:149:ARG:CD	2.04	0.88
7:AG:47:LYS:CE	7:AG:73:ALA:HB3	2.04	0.88
11:AK:96:GLU:O	11:AK:100:GLU:HG2	1.73	0.88
12:AL:24:VAL:HG13	12:AL:30:ALA:HB1	1.56	0.88
12:AL:43:VAL:HG11	12:AL:54:GLU:CD	1.99	0.88
22:AV:71:LYS:HD2	22:AV:71:LYS:H	1.38	0.88
34:BA:533:A:H2'	34:BA:535:A:OP2	1.74	0.88
34:BA:1274:G:N2	34:BA:1275:A:H62	1.71	0.88
41:BL:14:ARG:HB3	41:BL:14:ARG:HH11	1.32	0.88
46:BQ:29:ARG:HD3	46:BQ:64:TRP:HH2	1.30	0.88
48:BS:7:GLU:HA	48:BS:10:LYS:HD3	1.54	0.88
55:CA:17:GLY:HA2	57:CA:701:GCP:O2A	1.73	0.88
55:CA:41:ARG:CA	55:CA:42:VAL:HG13	2.04	0.88
55:CA:165:ALA:H	55:CA:172:ALA:C	1.81	0.88
55:CA:240:ILE:C	55:CA:286:ASP:OD1	2.17	0.88
55:CA:397:GLN:C	55:CA:473:ASP:H	1.55	0.88
55:CA:580:VAL:HG12	55:CA:585:ILE:HG23	1.56	0.88
1:AA:670:A:H2'	13:AM:41:ARG:CZ	2.04	0.88
1:AA:894:C:N3	1:AA:895:U:C2	2.42	0.88
1:AA:951:C:O2'	1:AA:952:G:H5'	1.73	0.88
1:AA:1036:G:H5'	8:AH:59:ARG:HH12	1.37	0.88
1:AA:1479:G:H2'	1:AA:1480:G:C8	2.09	0.88
1:AA:1605:C:H2'	1:AA:1606:G:O4'	1.72	0.88
1:AA:1687:G:C6	1:AA:1688:U:H5	1.92	0.88
1:AA:1775:U:C6	4:AD:208:LYS:HD2	2.09	0.88
1:AA:1814:G:OP1	4:AD:43:ARG:HB2	1.73	0.88
1:AA:2103:C:H2'	1:AA:2104:G:C8	2.08	0.88
1:AA:2218:G:H4'	4:AD:186:HIS:CE1	2.09	0.88
1:AA:2405:G:H2'	1:AA:2411:A:H61	1.38	0.88
1:AA:2432:A:H2	27:Aa:30:GLU:HA	1.39	0.88
1:AA:2832:U:C1'	1:AA:2834:G:H21	1.86	0.88
2:AB:103:U:C2'	2:AB:104:A:H5'	2.04	0.88
5:AE:91:VAL:HG22	5:AE:93:VAL:H	1.37	0.88
5:AE:133:LYS:HB3	5:AE:137:HIS:CE1	2.08	0.88
11:AK:99:LEU:HD12	11:AK:100:GLU:N	1.89	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:28:VAL:O	17:AQ:52:ILE:HG13	1.74	0.88
19:AS:41:GLY:HA2	19:AS:51:VAL:HG22	1.55	0.88
20:AT:74:ALA:CB	20:AT:105:VAL:HG23	2.04	0.88
27:Aa:41:PRO:HB3	27:Aa:58:ARG:HD2	1.56	0.88
31:Ae:55:ALA:HA	31:Ae:58:ILE:HD11	1.54	0.88
34:BA:1263:C:H2'	34:BA:1264:C:C6	2.09	0.88
34:BA:1330:U:C4'	46:BQ:70:LEU:HD21	2.04	0.88
37:BH:11:LEU:HA	37:BH:14:ARG:HB3	1.53	0.88
41:BL:6:ILE:HG23	41:BL:7:ALA:N	1.86	0.88
51:BV:70:ILE:HG22	51:BV:74:ARG:NE	1.89	0.88
52:BW:11:VAL:CG1	52:BW:15:LEU:HB2	2.03	0.88
55:CA:249:ALA:CB	55:CA:275:ALA:CB	2.51	0.88
1:AA:6:A:C2	1:AA:2897:U:O2	2.27	0.87
1:AA:6:A:H2	1:AA:2897:U:C2'	1.88	0.87
1:AA:70:G:H5''	1:AA:71:A:OP1	1.73	0.87
1:AA:924:C:H2'	1:AA:925:C:H6	1.38	0.87
1:AA:1064:C:H3'	1:AA:1065:U:C5	2.09	0.87
1:AA:2723:C:O2'	15:AO:2:ARG:HA	1.72	0.87
3:AC:30:LYS:NZ	3:AC:182:PRO:HD3	1.88	0.87
5:AE:33:VAL:HG13	5:AE:48:GLN:HA	1.54	0.87
6:AF:110:LEU:CA	6:AF:183:VAL:HG22	2.03	0.87
11:AK:128:HIS:N	11:AK:129:PRO:HD2	1.90	0.87
12:AL:77:ILE:HG23	17:AQ:75:ILE:HD12	1.54	0.87
12:AL:79:PHE:HB2	17:AQ:73:GLU:CG	2.04	0.87
14:AN:34:LEU:CB	14:AN:67:ARG:HH22	1.86	0.87
14:AN:78:PRO:O	14:AN:79:LEU:HD23	1.73	0.87
22:AV:26:LYS:HB2	22:AV:38:ILE:HD11	1.55	0.87
23:AW:51:ALA:C	23:AW:53:ILE:N	2.24	0.87
26:AZ:9:VAL:HG13	26:AZ:54:VAL:HA	1.56	0.87
34:BA:735:C:H2'	34:BA:736:C:H6	1.37	0.87
34:BA:1465:C:C2'	34:BA:1466:C:H5'	2.04	0.87
35:BF:115:LEU:HD13	35:BF:145:LEU:HB3	1.56	0.87
35:BF:115:LEU:HD22	35:BF:149:LEU:HD13	1.56	0.87
35:BF:223:ILE:O	35:BF:226:ARG:HB3	1.74	0.87
41:BL:51:VAL:HG21	41:BL:60:ARG:HH21	1.37	0.87
46:BQ:15:VAL:CG2	46:BQ:39:ILE:HD13	1.40	0.87
52:BW:3:ARG:NH2	52:BW:64:GLU:O	1.79	0.87
55:CA:488:LEU:CD1	55:CA:525:GLY:C	2.47	0.87
55:CA:488:LEU:CG	55:CA:525:GLY:C	2.47	0.87
1:AA:6:A:N1	1:AA:2897:U:N3	2.22	0.87
1:AA:298:G:H8	1:AA:298:G:O5'	1.57	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:370:G:C2	1:AA:424:G:N7	2.42	0.87
1:AA:612:G:N2	1:AA:617:G:O6	2.06	0.87
1:AA:628:G:H8	1:AA:628:G:O5'	1.56	0.87
1:AA:957:A:O3'	1:AA:958:U:H4'	1.75	0.87
1:AA:1046:A:C5	9:AI:9:LEU:O	2.27	0.87
1:AA:1406:U:H2'	1:AA:1407:C:H6	1.37	0.87
1:AA:1793:C:N4	1:AA:1825:A:H61	1.71	0.87
1:AA:1954:G:O2'	1:AA:1955:U:H5'	1.73	0.87
1:AA:2206:C:H2'	1:AA:2207:C:C6	2.10	0.87
1:AA:2507:C:C5'	1:AA:2573:C:H41	1.87	0.87
1:AA:2583:G:H2'	1:AA:2584:U:C2	2.08	0.87
1:AA:2660:A:C2	55:CA:456:MET:C	2.51	0.87
1:AA:2660:A:N7	1:AA:2661:G:C5	2.41	0.87
4:AD:161:THR:HG23	4:AD:195:ALA:HB1	1.55	0.87
8:AH:125:VAL:HA	8:AH:131:VAL:CG2	2.05	0.87
21:AU:7:VAL:HG23	25:AY:28:MET:HE3	1.54	0.87
25:AY:52:ILE:O	25:AY:56:LEU:HD22	1.72	0.87
33:Ag:7:UNK:C	33:Ag:147:UNK:CB	2.50	0.87
34:BA:27:G:N2	34:BA:557:G:H1'	1.89	0.87
34:BA:944:G:H21	34:BA:1339:A:N6	1.72	0.87
34:BA:1309:G:N1	34:BA:1328:C:N4	2.22	0.87
34:BA:1315:U:O4'	34:BA:1361:G:H5'	1.73	0.87
34:BA:1390:U:H2'	34:BA:1391:U:C6	2.08	0.87
34:BA:1401:G:H2'	34:BA:1402:C:O4'	1.74	0.87
34:BA:1440:C:O2	34:BA:1462:G:N2	2.06	0.87
35:BF:80:ILE:HD12	35:BF:208:ILE:HG12	1.53	0.87
38:BI:89:ILE:HG12	38:BI:131:ILE:CD1	2.03	0.87
44:BO:110:ASP:HB2	51:BV:88:LYS:HB2	1.56	0.87
46:BQ:78:ILE:CA	46:BQ:81:LEU:HD11	2.03	0.87
49:BT:9:PHE:CZ	49:BT:18:ARG:HG3	2.09	0.87
49:BT:20:VAL:HG13	49:BT:34:GLU:O	1.74	0.87
50:BU:86:GLU:OE2	50:BU:89:LEU:HD12	1.74	0.87
51:BV:58:LEU:HD22	51:BV:62:GLU:HG3	1.56	0.87
55:CA:13:HIS:CB	55:CA:108:GLN:CG	2.51	0.87
55:CA:62:ALA:CB	55:CA:187:TYR:HD2	1.81	0.87
55:CA:307:VAL:O	55:CA:359:SER:HA	1.72	0.87
55:CA:405:LEU:CG	55:CA:463:GLY:CA	2.51	0.87
1:AA:95:G:H4'	25:AY:39:LEU:O	1.72	0.87
1:AA:292:C:H3'	1:AA:293:U:N3	1.89	0.87
1:AA:647:G:H2'	1:AA:648:G:C8	2.09	0.87
1:AA:780:G:H2'	1:AA:782:A:N7	1.89	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:853:G:H2'	1:AA:854:G:C8	2.09	0.87
1:AA:879:G:N1	1:AA:897:C:O2'	2.05	0.87
1:AA:1061:U:H3	10:AJ:11:GLN:HE22	1.20	0.87
1:AA:1470:G:H21	1:AA:1522:G:H1	0.92	0.87
1:AA:2787:C:O5'	5:AE:64:LYS:HD2	1.74	0.87
1:AA:2788:C:H4'	1:AA:2810:A:H5'	1.54	0.87
2:AB:97:G:H2'	2:AB:98:G:H5'	1.55	0.87
7:AG:7:LEU:HD22	7:AG:11:TYR:HE1	1.38	0.87
7:AG:47:LYS:HD2	7:AG:49:ASP:OD1	1.74	0.87
11:AK:57:ALA:HB3	11:AK:124:ALA:HA	1.54	0.87
13:AM:13:ASN:HD22	13:AM:14:LYS:N	1.71	0.87
14:AN:101:ARG:HG3	14:AN:101:ARG:HH11	1.39	0.87
18:AR:40:PHE:HB3	19:AS:78:LYS:HD2	1.56	0.87
22:AV:82:PRO:CD	22:AV:97:ARG:H	1.87	0.87
23:AW:151:HIS:HB3	23:AW:170:THR:N	1.89	0.87
24:AX:49:LYS:H	24:AX:80:HIS:CE1	1.92	0.87
34:BA:322:C:O2'	34:BA:323:U:H5'	1.73	0.87
34:BA:576:G:N7	34:BA:881:G:H1'	1.89	0.87
34:BA:770:C:C1'	34:BA:900:A:H2	1.87	0.87
34:BA:1154:G:H2'	34:BA:1155:G:H8	1.38	0.87
34:BA:1336:C:H4'	34:BA:1337:G:C2	2.10	0.87
34:BA:1346:A:C2	40:BK:10:ARG:HD3	2.08	0.87
34:BA:1499:A:C8	34:BA:1500:A:C8	2.61	0.87
38:BI:43:LEU:H	38:BI:65:ASN:ND2	1.72	0.87
39:BJ:7:ASN:ND2	39:BJ:62:TRP:HD1	1.73	0.87
40:BK:115:ARG:HB2	40:BK:118:VAL:CG2	2.04	0.87
45:BP:117:ARG:NH2	45:BP:124:LYS:HA	1.90	0.87
50:BU:59:ILE:HD12	50:BU:72:ARG:O	1.74	0.87
55:CA:309:MET:HA	55:CA:383:SER:HG	0.89	0.87
55:CA:325:PHE:HD2	55:CA:330:GLN:HG2	1.37	0.87
55:CA:500:ALA:HB3	55:CA:537:CYS:CB	2.00	0.87
1:AA:28:A:H1'	1:AA:513:A:C2	2.09	0.87
1:AA:182:A:H2'	1:AA:183:C:C6	2.09	0.87
1:AA:662:G:H4'	13:AM:18:ARG:N	1.87	0.87
1:AA:931:G:H3'	1:AA:932:G:O4'	1.74	0.87
1:AA:953:A:C2'	1:AA:954:G:H5'	2.02	0.87
1:AA:1637:A:O2'	1:AA:2711:A:H1'	1.74	0.87
1:AA:1906:G:C8	1:AA:1929:G:C4	2.60	0.87
1:AA:2207:C:H3'	1:AA:2208:U:H5''	1.56	0.87
1:AA:2672:G:O2'	1:AA:2673:G:H5'	1.74	0.87
4:AD:27:THR:HG22	4:AD:29:PRO:HD2	1.56	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:252:TRP:H	4:AD:255:LYS:NZ	1.73	0.87
5:AE:41:LYS:C	5:AE:43:GLY:H	1.81	0.87
5:AE:165:VAL:HG12	5:AE:166:THR:H	1.39	0.87
6:AF:65:TRP:HE1	6:AF:73:ALA:HB3	1.35	0.87
12:AL:12:ASP:OD2	12:AL:85:VAL:N	2.08	0.87
14:AN:25:ASP:HB3	14:AN:102:VAL:HG12	1.54	0.87
17:AQ:65:LYS:HD3	17:AQ:75:ILE:HD13	1.56	0.87
30:Ad:43:THR:N	30:Ad:44:PRO:HD2	1.89	0.87
34:BA:1258:G:H2'	34:BA:1259:C:C6	2.09	0.87
34:BA:1318:A:C2'	52:BW:37:ARG:N	2.38	0.87
34:BA:1321:C:C2	52:BW:36:ARG:NH1	2.43	0.87
34:BA:1329:A:O2'	46:BQ:70:LEU:HD13	1.72	0.87
35:BF:69:LEU:HD13	35:BF:92:TYR:HA	1.53	0.87
35:BF:146:GLN:NE2	35:BF:150:SER:HB2	1.89	0.87
35:BF:219:VAL:HG12	35:BF:223:ILE:CD1	2.03	0.87
36:BG:12:LEU:CD2	47:BR:57:ARG:HG3	2.05	0.87
36:BG:156:ARG:HB3	36:BG:193:TYR:HD1	1.39	0.87
38:BI:144:THR:HG22	38:BI:146:ALA:N	1.88	0.87
44:BO:80:VAL:O	44:BO:106:LYS:HB3	1.75	0.87
1:AA:6:A:N6	1:AA:2897:U:C4	2.42	0.87
1:AA:7:G:N1	1:AA:2896:C:H2'	1.88	0.87
1:AA:292:C:H2'	1:AA:293:U:O2	1.75	0.87
1:AA:640:C:H2'	1:AA:641:C:H5''	1.55	0.87
1:AA:746:A:N7	1:AA:2612:C:P	2.48	0.87
1:AA:832:G:H2'	1:AA:833:U:C5	2.09	0.87
1:AA:877:U:O2'	1:AA:899:A:N1	1.91	0.87
1:AA:1143:A:H2'	1:AA:1144:G:C8	2.09	0.87
1:AA:1308:A:C2	1:AA:1309:G:H1'	2.10	0.87
1:AA:2670:A:C4	1:AA:2671:A:N7	2.43	0.87
1:AA:2673:G:O2'	1:AA:2674:G:H5'	1.74	0.87
1:AA:2791:C:C4	1:AA:2893:G:C8	0.88	0.87
2:AB:51:G:C5'	16:AP:60:GLY:HA2	2.04	0.87
7:AG:47:LYS:HE2	7:AG:73:ALA:HB3	1.55	0.87
10:AJ:123:ALA:HA	10:AJ:127:ILE:CG1	2.03	0.87
11:AK:87:LEU:C	11:AK:90:MET:HB2	2.00	0.87
12:AL:7:TYR:HD1	12:AL:7:TYR:H	0.88	0.87
12:AL:68:GLU:O	12:AL:68:GLU:HG3	1.73	0.87
18:AR:108:GLU:OE2	18:AR:109:LEU:HG	1.73	0.87
22:AV:65:ALA:HB3	22:AV:66:PRO:HD3	1.55	0.87
27:Aa:68:ARG:HH11	27:Aa:68:ARG:H	1.08	0.87
32:Af:23:VAL:HB	32:Af:36:GLN:HG2	1.54	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Ag:7:UNK:HA	33:Ag:144:UNK:C	2.04	0.87
34:BA:299:G:H2'	34:BA:300:A:N7	1.89	0.87
34:BA:448:A:H2'	34:BA:449:C:H6	1.39	0.87
34:BA:713:G:H21	34:BA:777:A:C1'	1.88	0.87
34:BA:878:G:C5'	41:BL:89:PRO:HG2	2.04	0.87
34:BA:1413:A:O2'	34:BA:1414:U:H5'	1.74	0.87
34:BA:1499:A:N7	34:BA:1500:A:N7	2.20	0.87
35:BF:69:LEU:HB3	35:BF:162:ILE:HG22	1.56	0.87
46:BQ:14:ARG:HG3	46:BQ:17:VAL:HG23	1.56	0.87
55:CA:57:LEU:CD1	55:CA:254:VAL:O	2.22	0.87
1:AA:1046:A:C1'	9:AI:11:ALA:HB2	2.05	0.87
1:AA:1071:G:O6	1:AA:1072:C:N4	2.07	0.87
1:AA:1155:A:C2'	1:AA:1156:A:H5''	2.04	0.87
1:AA:1813:G:HO2'	4:AD:46:GLN:HG2	1.40	0.87
1:AA:2532:G:O3'	1:AA:2657:A:H2	1.52	0.87
1:AA:2755:C:HO2'	1:AA:2756:U:H6	0.88	0.87
1:AA:2886:G:O2'	28:Ab:31:VAL:HB	1.73	0.87
2:AB:50:G:H4'	16:AP:61:ASN:OD1	1.73	0.87
3:AC:97:GLU:HG3	3:AC:119:VAL:HB	1.56	0.87
6:AF:41:LEU:O	6:AF:44:ARG:HG3	1.75	0.87
11:AK:68:GLU:H	11:AK:70:LYS:NZ	1.73	0.87
13:AM:81:GLN:HG2	13:AM:86:LYS:HE3	1.56	0.87
18:AR:67:ALA:HB1	18:AR:71:GLN:HE22	1.37	0.87
22:AV:47:LYS:HZ2	22:AV:51:VAL:HG21	1.35	0.87
23:AW:68:PRO:O	23:AW:90:VAL:HA	1.73	0.87
24:AX:5:LYS:HG2	24:AX:6:GLY:N	1.89	0.87
24:AX:37:LEU:HD11	24:AX:59:LEU:HB3	1.55	0.87
32:Af:7:VAL:HB	32:Af:36:GLN:OE1	1.75	0.87
33:Ag:332:UNK:HA	33:Ag:347:UNK:CB	2.04	0.87
34:BA:47:C:H4'	34:BA:48:C:C5'	2.04	0.87
34:BA:557:G:H3'	34:BA:558:G:C8	2.09	0.87
34:BA:1117:G:N2	34:BA:1184:G:N9	2.23	0.87
34:BA:1158:C:C4	34:BA:1160:G:H1'	2.10	0.87
37:BH:13:ARG:HH21	37:BH:40:PRO:HA	1.38	0.87
37:BH:31:CYS:SG	37:BH:31:CYS:O	2.32	0.87
38:BI:109:ILE:HD13	38:BI:135:THR:HB	1.53	0.87
46:BQ:37:THR:HA	46:BQ:56:LEU:HB2	1.53	0.87
52:BW:9:VAL:C	52:BW:41:VAL:HG23	2.00	0.87
53:BX:72:LEU:HD13	53:BX:77:ALA:HB2	1.54	0.87
55:CA:209:ILE:CG2	55:CA:222:GLY:O	2.22	0.87
55:CA:250:LYS:C	55:CA:273:ILE:HD12	1.99	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:350:U:H2'	1:AA:350:U:O2	1.72	0.87
1:AA:511:U:H5	1:AA:512:G:N3	1.71	0.87
1:AA:606:U:OP1	6:AF:103:LYS:N	2.06	0.87
1:AA:1176:G:H2'	1:AA:1177:A:H5'	1.56	0.87
1:AA:1697:G:C3'	1:AA:1698:A:H5'	2.05	0.87
1:AA:2010:G:H2'	1:AA:2011:U:H5'	1.57	0.87
1:AA:2658:C:H2'	1:AA:2659:G:O4'	1.74	0.87
1:AA:2864:G:H2'	1:AA:2865:U:C6	2.09	0.87
5:AE:49:LEU:HG	5:AE:74:PRO:CG	2.04	0.87
5:AE:101:ARG:HH11	5:AE:171:GLU:HG2	1.40	0.87
13:AM:76:LYS:O	13:AM:115:LEU:HB2	1.75	0.87
14:AN:56:ARG:CZ	14:AN:57:HIS:HB2	2.05	0.87
17:AQ:34:VAL:HG11	17:AQ:78:LEU:HD11	1.56	0.87
17:AQ:39:ARG:HG3	17:AQ:42:ILE:HD12	1.56	0.87
17:AQ:53:ARG:HH22	17:AQ:101:PHE:N	1.72	0.87
17:AQ:115:ARG:NH1	34:BA:1463:C:OP2	2.08	0.87
34:BA:598:U:H4'	41:BL:94:TYR:CD2	2.09	0.87
34:BA:655:A:H2'	34:BA:656:C:C6	2.09	0.87
34:BA:722:A:H2'	34:BA:724:G:C8	2.10	0.87
34:BA:901:A:C2	34:BA:902:G:C1'	2.57	0.87
34:BA:1048:G:H5''	47:BR:3:ARG:NH1	1.87	0.87
34:BA:1309:G:C6	34:BA:1328:C:N4	2.42	0.87
38:BI:50:GLU:O	38:BI:53:LEU:HB2	1.74	0.87
41:BL:88:LYS:H	41:BL:88:LYS:HZ2	1.19	0.87
42:BM:4:TYR:HE1	42:BM:59:PHE:HE2	1.22	0.87
43:BN:79:ARG:HH22	43:BN:82:ILE:HD12	1.37	0.87
46:BQ:19:LEU:HB2	46:BQ:25:ILE:HG21	1.57	0.87
51:BV:78:LEU:C	51:BV:79:LEU:HD12	2.00	0.87
1:AA:70:G:O2'	1:AA:71:A:H5'	1.75	0.87
1:AA:197:A:N6	1:AA:248:G:N2	2.21	0.87
1:AA:612:G:H4'	1:AA:616:A:C6	2.09	0.87
1:AA:670:A:H2'	13:AM:41:ARG:NH2	1.89	0.87
1:AA:914:C:H3'	1:AA:914:C:C6	2.08	0.87
1:AA:1048:A:N1	1:AA:1113:U:H5'	1.88	0.87
1:AA:1064:C:C5	1:AA:1065:U:C4	2.63	0.87
1:AA:1312:U:C2'	1:AA:1313:U:O4'	2.23	0.87
1:AA:1667:G:H2'	1:AA:1667:G:N3	1.86	0.87
1:AA:1814:G:H2'	1:AA:1815:A:C8	2.09	0.87
1:AA:1838:C:H2'	1:AA:1898:U:C4	2.10	0.87
1:AA:2161:C:H2'	1:AA:2162:G:C8	2.09	0.87
1:AA:2593:U:O4	4:AD:239:ARG:NH1	2.08	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:107:ALA:H	4:AD:108:PRO:HD3	1.39	0.87
13:AM:55:ARG:HB3	13:AM:55:ARG:HH11	1.40	0.87
13:AM:91:PHE:O	13:AM:95:VAL:HB	1.75	0.87
13:AM:96:THR:HG21	13:AM:112:LEU:HD13	1.53	0.87
14:AN:137:TYR:OH	23:AW:124:ILE:HD11	1.73	0.87
18:AR:8:VAL:O	18:AR:11:ARG:HG2	1.75	0.87
19:AS:32:THR:CA	19:AS:64:HIS:O	2.21	0.87
24:AX:68:GLU:OE2	24:AX:82:ARG:HB2	1.74	0.87
27:Aa:21:VAL:HG12	27:Aa:22:ILE:H	1.37	0.87
29:Ac:19:ARG:O	29:Ac:43:CYS:SG	2.33	0.87
31:Ae:38:GLY:O	31:Ae:40:GLU:N	2.06	0.87
34:BA:118:U:O4	34:BA:288:A:H2'	1.74	0.87
34:BA:1068:G:O2'	34:BA:1069:C:H5'	1.75	0.87
34:BA:1339:A:C2'	34:BA:1340:A:H5'	2.03	0.87
34:BA:1454:G:P	53:BX:39:LYS:HD3	2.15	0.87
35:BF:139:LYS:HG3	35:BF:140:HIS:N	1.87	0.87
45:BP:86:ARG:NH1	45:BP:119:LYS:HG3	1.88	0.87
48:BS:29:VAL:HG21	48:BS:81:LEU:HD11	1.55	0.87
51:BV:68:LYS:O	51:BV:71:LYS:HB2	1.74	0.87
51:BV:74:ARG:N	51:BV:79:LEU:HD21	1.89	0.87
55:CA:230:LYS:HG2	55:CA:265:THR:C	1.98	0.87
55:CA:305:PRO:HD2	55:CA:346:ARG:HG3	1.54	0.87
1:AA:259:G:H2'	1:AA:260:G:C8	2.08	0.87
1:AA:326:G:H2'	1:AA:327:G:C8	2.10	0.87
1:AA:1047:G:N3	1:AA:1110:G:H3'	1.89	0.87
1:AA:1105:U:H4'	1:AA:1106:G:H5''	1.57	0.87
1:AA:1581:G:H2'	1:AA:1582:C:O4'	1.73	0.87
1:AA:2544:G:H2'	1:AA:2545:G:O4'	1.75	0.87
1:AA:2630:G:O5'	1:AA:2894:G:O3'	1.72	0.87
1:AA:2636:U:H4'	5:AE:79:ARG:HD3	1.55	0.87
2:AB:88:C:N4	2:AB:89:G:N3	2.23	0.87
4:AD:54:ARG:C	4:AD:219:PRO:HD2	1.99	0.87
8:AH:28:GLY:HA3	8:AH:79:VAL:HB	1.56	0.87
11:AK:39:ARG:HB3	11:AK:48:MET:CG	2.05	0.87
11:AK:43:THR:HB	11:AK:44:PRO:HD2	0.91	0.87
18:AR:93:LYS:HG2	19:AS:10:LYS:NZ	1.89	0.87
18:AR:111:GLU:HA	18:AR:114:LYS:CE	2.05	0.87
20:AT:11:ARG:HB2	20:AT:98:LYS:CE	2.05	0.87
24:AX:12:ASN:HA	24:AX:14:ARG:NH2	1.89	0.87
25:AY:20:VAL:O	25:AY:24:LYS:HG3	1.73	0.87
34:BA:1308:U:OP2	46:BQ:99:ARG:N	2.07	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1309:G:N2	34:BA:1328:C:C4	2.43	0.87
34:BA:1338:G:H2'	34:BA:1339:A:C8	2.08	0.87
39:BJ:95:GLU:H	39:BJ:96:PRO:CD	1.88	0.87
41:BL:86:ILE:CG2	41:BL:133:LEU:HB2	2.04	0.87
43:BN:10:GLY:HA3	43:BN:94:VAL:HG22	1.57	0.87
46:BQ:14:ARG:HH21	46:BQ:42:ALA:CA	1.87	0.87
50:BU:43:LEU:HD13	50:BU:43:LEU:O	1.75	0.87
53:BX:63:ILE:HD13	53:BX:80:ARG:HB3	1.56	0.87
55:CA:231:VAL:HG12	55:CA:232:LYS:H	1.40	0.87
55:CA:512:LEU:CD1	55:CA:518:VAL:HG11	2.03	0.87
1:AA:546:C:H2'	1:AA:547:A:C8	2.10	0.86
1:AA:1454:U:O2	1:AA:1454:U:H2'	1.75	0.86
1:AA:1695:G:H2'	1:AA:1696:G:H5'	1.57	0.86
1:AA:2120:G:H21	3:AC:167:LYS:NZ	1.68	0.86
1:AA:2213:U:H3'	1:AA:2213:U:O2	1.75	0.86
1:AA:2287:A:N7	1:AA:2289:G:C5	2.42	0.86
1:AA:2353:G:H4'	24:AX:32:ARG:NH2	1.90	0.86
1:AA:2390:U:O2'	1:AA:2391:G:H5'	1.75	0.86
1:AA:2456:C:O2'	1:AA:2457:U:H5'	1.75	0.86
1:AA:2657:A:H2'	1:AA:2658:C:H5'	1.57	0.86
1:AA:2809:A:H4'	1:AA:2811:G:N7	1.89	0.86
2:AB:42:C:C2	7:AG:93:THR:HB	2.10	0.86
2:AB:75:G:H4'	23:AW:36:LYS:HE2	1.57	0.86
6:AF:36:VAL:HG11	6:AF:183:VAL:CB	2.04	0.86
7:AG:8:LYS:HZ1	7:AG:176:LEU:HD11	1.40	0.86
7:AG:118:ARG:CG	7:AG:119:GLY:H	1.87	0.86
8:AH:103:LEU:HB2	8:AH:115:VAL:CB	2.05	0.86
12:AL:70:LYS:NZ	12:AL:102:VAL:HG13	1.89	0.86
14:AN:45:GLN:O	14:AN:48:GLU:HG2	1.73	0.86
16:AP:3:ARG:HG2	16:AP:4:LEU:N	1.89	0.86
17:AQ:6:LEU:HD23	17:AQ:7:ILE:H	1.39	0.86
18:AR:89:GLU:CG	19:AS:52:VAL:HG23	2.01	0.86
21:AU:54:VAL:HG22	21:AU:81:VAL:HG23	1.55	0.86
25:AY:27:LEU:HA	25:AY:30:LEU:CG	2.05	0.86
31:Ae:5:LYS:HB2	31:Ae:60:LEU:HA	1.55	0.86
32:Af:2:LYS:O	32:Af:3:VAL:HG23	1.74	0.86
34:BA:21:G:H2'	34:BA:22:G:C8	2.10	0.86
34:BA:1298:C:C5	40:BK:114:ARG:HD3	2.10	0.86
34:BA:1318:A:C1'	52:BW:35:SER:HG	1.72	0.86
35:BF:213:LEU:HD22	35:BF:214:ILE:CD1	2.04	0.86
53:BX:56:MET:HG2	53:BX:88:VAL:HG21	1.55	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:29:U:H2'	1:AA:30:G:C8	2.10	0.86
1:AA:152:G:H2'	1:AA:153:C:H5'	1.55	0.86
1:AA:722:A:H2'	1:AA:723:G:H8	1.39	0.86
1:AA:919:G:H2'	1:AA:920:G:H8	1.39	0.86
1:AA:1202:C:H2'	1:AA:1203:G:H4'	1.57	0.86
1:AA:1326:U:C2'	1:AA:1327:C:H5'	2.03	0.86
1:AA:1527:G:H1'	1:AA:1528:A:C2	2.09	0.86
1:AA:1918:A:H2'	34:BA:1408:A:C4'	2.03	0.86
1:AA:2244:U:H1'	1:AA:2434:A:C6	2.09	0.86
4:AD:181:GLU:CA	4:AD:270:ILE:HD12	2.05	0.86
5:AE:5:LEU:HD21	5:AE:196:VAL:HB	1.55	0.86
5:AE:36:ARG:HG3	5:AE:79:ARG:NH2	1.89	0.86
7:AG:53:LEU:HG	7:AG:72:ARG:CD	2.04	0.86
7:AG:75:LYS:CG	7:AG:84:LYS:HB2	2.05	0.86
7:AG:173:LEU:HD12	7:AG:176:LEU:HD12	1.55	0.86
10:AJ:29:GLN:HG2	55:CA:431:PRO:HB2	1.58	0.86
10:AJ:44:ALA:HB2	10:AJ:66:THR:HG22	1.57	0.86
11:AK:19:GLU:HB2	11:AK:56:ASN:CB	2.05	0.86
12:AL:106:LEU:HD22	17:AQ:39:ARG:NH1	1.90	0.86
13:AM:105:LEU:O	13:AM:106:LEU:HG	1.75	0.86
16:AP:62:LYS:C	16:AP:64:GLU:H	1.77	0.86
16:AP:99:LYS:HG2	16:AP:103:GLU:OE2	1.76	0.86
21:AU:19:ALA:O	21:AU:22:ALA:HB3	1.74	0.86
23:AW:111:VAL:CG2	23:AW:117:LEU:HG	2.06	0.86
24:AX:38:VAL:HB	24:AX:59:LEU:HD12	1.56	0.86
30:Ad:20:ALA:HA	30:Ad:23:ARG:HD2	1.55	0.86
34:BA:1310:G:O6	34:BA:1327:C:N4	2.03	0.86
34:BA:1425:U:H2'	34:BA:1426:C:C6	2.09	0.86
35:BF:42:ILE:HG12	35:BF:43:ASP:H	1.38	0.86
35:BF:219:VAL:O	35:BF:223:ILE:HG13	1.76	0.86
40:BK:138:LYS:HE2	40:BK:142:GLU:OE1	1.75	0.86
44:BO:110:ASP:HB2	51:BV:88:LYS:CB	2.05	0.86
1:AA:152:G:HO2'	1:AA:153:C:H5'	1.31	0.86
1:AA:154:G:O2'	1:AA:155:C:H5'	1.76	0.86
1:AA:897:C:O2'	1:AA:898:C:OP1	1.92	0.86
1:AA:910:A:C6	14:AN:17:LEU:HD11	2.10	0.86
1:AA:1075:C:C1'	10:AJ:90:LYS:NZ	2.38	0.86
1:AA:1444:G:H3'	1:AA:1445:C:C5	2.09	0.86
1:AA:2034:U:H3'	1:AA:2035:G:C5'	2.04	0.86
1:AA:2209:C:C2'	1:AA:2210:G:H3'	2.05	0.86
1:AA:2296:U:H3'	1:AA:2296:U:H6	1.39	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2650:U:H2'	1:AA:2651:C:C6	2.09	0.86
1:AA:2749:A:C5	1:AA:2750:A:N7	2.43	0.86
1:AA:2821:A:OP2	1:AA:2821:A:H3'	1.76	0.86
8:AH:111:HIS:O	8:AH:113:VAL:HG23	1.73	0.86
12:AL:62:VAL:CG2	12:AL:83:ALA:HA	2.05	0.86
12:AL:70:LYS:HZ3	12:AL:102:VAL:HG13	1.40	0.86
13:AM:55:ARG:HH11	13:AM:55:ARG:CB	1.87	0.86
14:AN:22:LYS:HD2	14:AN:99:PRO:CG	2.04	0.86
15:AO:74:LYS:O	15:AO:78:LYS:HB2	1.74	0.86
18:AR:65:ILE:CD1	18:AR:96:ALA:HB2	2.04	0.86
21:AU:39:ILE:HG21	21:AU:54:VAL:HG13	1.57	0.86
25:AY:33:GLN:O	25:AY:35:SER:N	2.08	0.86
27:Aa:5:ILE:HD13	27:Aa:60:GLN:HE22	1.38	0.86
30:Ad:20:ALA:HB3	30:Ad:21:ARG:NH2	1.91	0.86
31:Ae:5:LYS:HB3	31:Ae:60:LEU:HA	1.56	0.86
34:BA:197:A:N6	34:BA:221:C:H5'	1.90	0.86
34:BA:728:A:H8	48:BS:54:ARG:CZ	1.88	0.86
37:BH:78:LEU:HD22	37:BH:96:LEU:HD13	1.56	0.86
40:BK:69:VAL:CG2	40:BK:104:LEU:HD11	2.04	0.86
41:BL:18:ARG:HA	41:BL:18:ARG:HH11	1.40	0.86
45:BP:106:ASP:CA	55:CA:329:ARG:NE	2.33	0.86
46:BQ:91:ARG:HD3	46:BQ:98:VAL:C	2.01	0.86
55:CA:4:LYS:O	55:CA:68:TYR:CG	2.27	0.86
55:CA:11:ILE:CG2	55:CA:112:VAL:CG1	2.53	0.86
55:CA:123:PRO:HB2	55:CA:156:GLU:OE1	1.73	0.86
55:CA:123:PRO:HG2	55:CA:156:GLU:OE2	1.75	0.86
1:AA:61:G:H2'	1:AA:62:C:C6	2.11	0.86
1:AA:84:A:H5''	22:AV:8:LYS:HG3	1.56	0.86
1:AA:729:G:C4	1:AA:730:C:H1'	2.11	0.86
1:AA:764:A:H1'	4:AD:214:TRP:CD1	2.10	0.86
1:AA:775:G:H4'	1:AA:777:A:C4	2.09	0.86
1:AA:1061:U:O5'	10:AJ:52:ILE:CD1	2.24	0.86
1:AA:1920:C:O2'	1:AA:1921:G:H3'	1.75	0.86
1:AA:2009:G:OP1	20:AT:41:LYS:HD2	1.75	0.86
1:AA:2020:A:OP2	18:AR:27:LEU:HD13	1.76	0.86
3:AC:64:LEU:CD1	3:AC:161:ILE:HG12	2.05	0.86
4:AD:202:LYS:HD2	4:AD:202:LYS:N	1.83	0.86
5:AE:8:LYS:HE2	5:AE:8:LYS:CA	2.06	0.86
7:AG:75:LYS:O	7:AG:83:ARG:HA	1.75	0.86
10:AJ:17:ALA:HB3	10:AJ:42:ASN:ND2	1.89	0.86
10:AJ:21:PRO:CD	10:AJ:22:PRO:HD3	2.05	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:116:LEU:O	11:AK:116:LEU:HD23	1.76	0.86
13:AM:29:LYS:C	13:AM:30:THR:HG23	2.00	0.86
15:AO:97:VAL:HA	15:AO:114:VAL:HG13	1.55	0.86
17:AQ:115:ARG:HB3	34:BA:1463:C:OP1	1.75	0.86
21:AU:4:ALA:HB3	25:AY:21:ARG:HH22	1.39	0.86
34:BA:907:A:H2'	34:BA:908:A:H8	1.40	0.86
34:BA:1342:C:H4'	42:BM:125:TYR:HB2	1.57	0.86
34:BA:1461:G:O2'	34:BA:1462:G:H5'	1.74	0.86
35:BF:115:LEU:CD2	35:BF:149:LEU:HD13	2.06	0.86
35:BF:145:LEU:O	35:BF:149:LEU:HB2	1.75	0.86
36:BG:67:THR:HA	36:BG:102:ASN:HB2	1.56	0.86
37:BH:26:CYS:O	37:BH:33:MET:HG3	1.75	0.86
38:BI:147:ASP:HA	38:BI:150:ARG:HB2	1.56	0.86
40:BK:29:LYS:HD2	40:BK:101:LEU:HD22	1.57	0.86
41:BL:50:ARG:HH11	41:BL:50:ARG:HG2	1.39	0.86
42:BM:50:LEU:HD22	42:BM:51:ARG:HH12	1.40	0.86
46:BQ:48:LEU:HD22	46:BQ:53:VAL:CG2	2.06	0.86
46:BQ:100:GLY:CA	46:BQ:101:GLN:HG2	2.06	0.86
1:AA:1078:U:P	10:AJ:137:GLU:OE2	2.33	0.86
1:AA:1786:A:O2'	1:AA:1787:A:H5'	1.75	0.86
1:AA:1790:C:H2'	1:AA:1791:A:N7	1.89	0.86
1:AA:2332:U:C4'	1:AA:2336:A:N6	2.36	0.86
1:AA:2646:C:C4	1:AA:2647:U:C4	2.63	0.86
4:AD:145:VAL:HG13	4:AD:191:ALA:HB2	1.57	0.86
5:AE:66:HIS:ND1	5:AE:67:PHE:N	2.23	0.86
6:AF:40:GLN:O	6:AF:44:ARG:HG2	1.75	0.86
7:AG:39:ILE:HG23	7:AG:157:ILE:CB	2.05	0.86
7:AG:57:ALA:HB2	7:AG:68:PRO:O	1.75	0.86
7:AG:181:ARG:HD2	7:AG:181:ARG:H	1.38	0.86
11:AK:107:LEU:HD23	11:AK:107:LEU:C	2.00	0.86
12:AL:10:VAL:C	12:AL:17:ARG:HG3	2.01	0.86
12:AL:19:ILE:HD12	12:AL:19:ILE:O	1.75	0.86
12:AL:97:ARG:HB2	12:AL:97:ARG:CZ	2.05	0.86
12:AL:97:ARG:C	12:AL:97:ARG:NE	2.34	0.86
13:AM:37:GLY:C	13:AM:40:SER:HB3	2.00	0.86
13:AM:95:VAL:O	13:AM:97:PRO:HD2	1.74	0.86
32:Af:10:ILE:HD11	32:Af:34:GLN:HE21	1.41	0.86
34:BA:6:G:H1	38:BI:96:PRO:HG2	1.38	0.86
34:BA:389:A:C6	34:BA:390:C:H1'	2.10	0.86
34:BA:797:C:O2'	34:BA:798:G:H5'	1.76	0.86
34:BA:1128:C:O2	34:BA:1130:A:N6	2.08	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1286:A:H5'	54:BY:25:LYS:CG	2.06	0.86
34:BA:1516:G:H22	34:BA:1518:A:H3'	1.41	0.86
35:BF:46:LYS:HA	35:BF:46:LYS:HE2	1.56	0.86
35:BF:186:ALA:O	35:BF:201:ILE:HB	1.74	0.86
38:BI:11:ILE:HB	38:BI:31:LEU:HD22	1.58	0.86
41:BL:12:ARG:HD3	41:BL:26:VAL:CG2	2.04	0.86
44:BO:68:ALA:HA	44:BO:71:LYS:HD2	1.55	0.86
48:BS:51:HIS:O	48:BS:54:ARG:HB3	1.74	0.86
52:BW:6:LYS:CB	52:BW:41:VAL:CG1	2.47	0.86
53:BX:72:LEU:HD22	53:BX:77:ALA:N	1.89	0.86
55:CA:15:ASP:HB3	55:CA:16:HIS:CE1	2.08	0.86
55:CA:69:ARG:NH1	55:CA:253:LYS:NZ	2.10	0.86
1:AA:7:G:C6	1:AA:2896:C:C2	2.62	0.86
1:AA:51:G:H5'	1:AA:52:A:OP1	1.76	0.86
1:AA:152:G:C2'	1:AA:153:C:C5'	2.53	0.86
1:AA:270(Z):U:N3	1:AA:271(C):U:H1'	1.90	0.86
1:AA:740:U:O2'	1:AA:741:G:P	2.33	0.86
1:AA:1037:G:N1	1:AA:1119:C:N3	2.24	0.86
1:AA:1113:U:H2'	1:AA:1114:G:H8	1.41	0.86
1:AA:1255:U:C5'	1:AA:1256:G:H5''	2.04	0.86
1:AA:1567:A:H4'	1:AA:1568:G:C2	2.10	0.86
1:AA:1788:C:H2'	4:AD:222:ARG:CZ	2.06	0.86
1:AA:2061:G:O2'	1:AA:2062:A:H5''	1.75	0.86
1:AA:2210:G:C8	4:AD:68:LYS:HD3	2.10	0.86
1:AA:2331:G:N2	1:AA:2385:C:N4	2.24	0.86
1:AA:2581:G:N1	1:AA:2610:C:C6	2.42	0.86
1:AA:2881:C:H2'	1:AA:2882:A:C8	2.10	0.86
3:AC:100:ILE:HD11	3:AC:123:VAL:HG22	1.56	0.86
4:AD:130:ALA:HA	4:AD:193:VAL:HG23	1.55	0.86
5:AE:58:ARG:NH1	5:AE:58:ARG:HB2	1.90	0.86
6:AF:63:LYS:HA	6:AF:76:GLY:O	1.75	0.86
7:AG:141:PHE:C	7:AG:143:GLU:H	1.81	0.86
9:AI:140:GLY:C	33:Ag:136:UNK:O	2.18	0.86
18:AR:102:GLU:HB3	18:AR:105:VAL:HB	1.58	0.86
22:AV:23:ARG:HD2	22:AV:39:VAL:HG22	1.56	0.86
24:AX:19:LYS:C	24:AX:20:ARG:HD2	2.01	0.86
27:Aa:28:LYS:HE3	27:Aa:29:PRO:HD2	1.56	0.86
30:Ad:21:ARG:HG2	30:Ad:31:LEU:CD2	2.06	0.86
34:BA:66:G:H4'	34:BA:173:U:C5	2.10	0.86
34:BA:800:G:H8	34:BA:800:G:O5'	1.59	0.86
34:BA:1244:C:OP2	54:BY:9:ARG:HD3	1.74	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1308:U:N3	34:BA:1309:G:C8	2.43	0.86
35:BF:115:LEU:HD23	35:BF:149:LEU:HD22	1.56	0.86
40:BK:35:LYS:HZ3	40:BK:38:LEU:HD22	1.34	0.86
42:BM:106:ALA:O	42:BM:107:ARG:HG3	1.75	0.86
46:BQ:22:ILE:CG1	46:BQ:25:ILE:HD12	2.05	0.86
50:BU:44:ALA:HB1	50:BU:72:ARG:HA	1.57	0.86
55:CA:67:ASP:CG	55:CA:68:TYR:HA	1.99	0.86
55:CA:141:VAL:CG2	55:CA:164:TYR:HH	1.89	0.86
55:CA:164:TYR:CD1	55:CA:175:ASP:CG	2.52	0.86
1:AA:39:C:H2'	1:AA:40:C:C6	2.11	0.86
1:AA:242:G:H2'	1:AA:254:G:C6	2.11	0.86
1:AA:851:U:H5''	26:AZ:49:LYS:HD2	1.58	0.86
1:AA:1039:G:H3'	1:AA:1039:G:P	2.15	0.86
1:AA:1202:C:C4	1:AA:1203:G:C1'	2.57	0.86
1:AA:1491:G:C2'	1:AA:1492:G:H4'	2.05	0.86
1:AA:2369:A:H2'	1:AA:2370:G:H8	1.39	0.86
1:AA:2748:A:N3	8:AH:67:LEU:CD2	2.38	0.86
1:AA:2799:A:O4'	1:AA:2802:G:N1	2.08	0.86
3:AC:50:ASP:OD1	3:AC:52:ARG:HG2	1.75	0.86
3:AC:119:VAL:O	3:AC:123:VAL:HG23	1.74	0.86
3:AC:211:SER:HB2	3:AC:223:ARG:HH21	1.41	0.86
4:AD:227:ASN:O	4:AD:229:VAL:HG12	1.75	0.86
5:AE:12:THR:HG23	5:AE:21:VAL:HB	1.56	0.86
6:AF:108:LYS:O	6:AF:111:ALA:HB3	1.75	0.86
8:AH:102:ALA:C	8:AH:115:VAL:HG12	2.00	0.86
10:AJ:72:PRO:CD	10:AJ:77:LEU:HG	2.04	0.86
13:AM:81:GLN:HA	13:AM:86:LYS:HE3	1.56	0.86
16:AP:51:ALA:CB	16:AP:73:LEU:HG	2.06	0.86
16:AP:106:ARG:HH22	16:AP:110:LEU:HD13	1.39	0.86
18:AR:114:LYS:HG2	18:AR:115:ALA:H	1.39	0.86
20:AT:95:ILE:HD12	20:AT:95:ILE:H	1.38	0.86
31:Ae:15:LYS:O	31:Ae:22:VAL:HG13	1.75	0.86
34:BA:309:G:O2'	34:BA:310:G:H5'	1.75	0.86
34:BA:520:A:N6	34:BA:529:G:H21	1.73	0.86
34:BA:854:G:H3'	34:BA:871:U:O4	1.76	0.86
34:BA:1462:G:O2'	34:BA:1463:C:H5'	1.75	0.86
41:BL:111:ILE:HD12	41:BL:111:ILE:N	1.91	0.86
41:BL:126:LYS:NZ	41:BL:127:LEU:HD23	1.91	0.86
44:BO:78:GLN:O	44:BO:104:GLN:HB3	1.76	0.86
45:BP:54:LYS:HB3	45:BP:70:ILE:HB	1.54	0.86
52:BW:12:ASP:O	52:BW:14:HIS:N	2.09	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:64:A:C2'	1:AA:65:C:H5'	2.05	0.86
1:AA:1359:A:H2'	1:AA:1360:A:H5'	1.56	0.86
1:AA:1782:C:H42	1:AA:2587:A:N6	1.73	0.86
1:AA:2138:C:H2'	1:AA:2139:C:C6	2.10	0.86
1:AA:2239:G:C3'	1:AA:2240:C:H5''	2.03	0.86
1:AA:2658:C:N4	1:AA:2664:G:H1	1.74	0.86
4:AD:76:PRO:HA	4:AD:118:VAL:CG2	2.05	0.86
4:AD:118:VAL:H	4:AD:129:ASN:ND2	1.74	0.86
6:AF:122:LYS:HA	6:AF:122:LYS:NZ	1.90	0.86
10:AJ:83:GLY:O	10:AJ:85:GLU:N	2.09	0.86
12:AL:64:ARG:HH12	12:AL:77:ILE:HA	1.41	0.86
15:AO:97:VAL:HA	15:AO:114:VAL:HG22	1.55	0.86
34:BA:522:C:H5''	45:BP:120:TYR:OH	1.76	0.86
35:BF:217:ARG:O	35:BF:220:ASP:HB2	1.76	0.86
55:CA:101:ALA:O	55:CA:135:ALA:HB1	1.74	0.86
55:CA:251:VAL:HG12	55:CA:273:ILE:CA	1.57	0.86
1:AA:273(B):C:H2'	1:AA:273(C):C:C6	2.11	0.86
1:AA:481:G:H1	1:AA:509:C:H42	1.21	0.86
1:AA:564:C:H1'	18:AR:37:GLU:CD	2.01	0.86
1:AA:586:A:H5'	6:AF:89:VAL:CG2	2.03	0.86
1:AA:1204:A:H5'	1:AA:1206:G:OP1	1.76	0.86
1:AA:1579:A:N6	1:AA:1581:G:N2	2.24	0.86
1:AA:1667:G:N2	1:AA:1991:U:C4	2.44	0.86
10:AJ:95:LYS:HE2	10:AJ:95:LYS:HA	1.57	0.86
20:AT:25:ARG:HD3	20:AT:74:ALA:HB3	1.55	0.86
24:AX:44:ARG:O	24:AX:77:ARG:HB2	1.76	0.86
26:AZ:54:VAL:HG22	26:AZ:55:ARG:H	1.38	0.86
34:BA:38:G:N2	34:BA:397:A:C5	2.43	0.86
34:BA:359:U:H5''	55:CA:216:SER:HG	1.08	0.86
34:BA:819:A:H5''	34:BA:820:U:OP2	1.74	0.86
34:BA:952:U:C5'	34:BA:972:C:H41	1.88	0.86
35:BF:134:GLU:O	35:BF:138:LEU:HG	1.74	0.86
38:BI:78:HIS:CB	41:BL:107:LEU:HD21	2.04	0.86
39:BJ:85:VAL:HG11	39:BJ:88:VAL:HG13	1.58	0.86
42:BM:19:LEU:HD21	42:BM:59:PHE:CB	2.01	0.86
52:BW:16:LEU:O	52:BW:19:VAL:HG12	1.75	0.86
55:CA:249:ALA:HB3	55:CA:275:ALA:HB2	1.57	0.86
55:CA:400:TYR:CE1	55:CA:444:PRO:CA	2.59	0.86
1:AA:948:G:C1'	1:AA:984:A:C2	2.58	0.86
1:AA:1080:C:H5''	10:AJ:128:ALA:CA	2.06	0.86
1:AA:1265:A:OP2	1:AA:2615:U:OP1	1.93	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1651:G:H2'	1:AA:1652:A:C8	2.11	0.86
1:AA:1798:U:H5'	4:AD:257:LEU:HD12	1.57	0.86
1:AA:2120:G:N2	3:AC:167:LYS:HZ1	1.72	0.86
1:AA:2348:U:O4	1:AA:2382:G:N2	2.08	0.86
1:AA:2539:C:O2'	1:AA:2540:C:H5'	1.76	0.86
1:AA:2667:C:H3'	1:AA:2668:G:C8	2.10	0.86
1:AA:2710:C:H2'	1:AA:2711:A:H5''	1.56	0.86
1:AA:2841:C:H2'	1:AA:2842:G:C8	2.09	0.86
2:AB:7:G:H4'	16:AP:29:PHE:HE2	1.37	0.86
8:AH:126:PRO:HG2	8:AH:132:ARG:HH12	1.41	0.86
10:AJ:104:VAL:HG12	10:AJ:127:ILE:CG1	1.88	0.86
13:AM:149:GLU:CD	13:AM:150:ALA:H	1.84	0.86
18:AR:91:ASP:O	18:AR:95:LEU:HD21	1.76	0.86
18:AR:108:GLU:HB2	18:AR:111:GLU:CD	2.01	0.86
23:AW:166:SER:OG	23:AW:167:PRO:HD2	1.76	0.86
25:AY:45:ILE:HG13	25:AY:46:ARG:H	1.41	0.86
29:Ac:50:ARG:CZ	29:Ac:52:VAL:HG21	2.05	0.86
30:Ad:43:THR:O	30:Ad:46:VAL:N	2.09	0.86
31:Ae:23:VAL:HG22	31:Ae:47:LYS:C	1.99	0.86
34:BA:607:A:H2'	34:BA:608:A:O4'	1.75	0.86
34:BA:1073:U:H2'	34:BA:1074:G:H8	1.41	0.86
34:BA:1165:C:O2'	34:BA:1166:G:H5'	1.75	0.86
34:BA:1225:A:H4'	52:BW:78:ARG:HB3	1.51	0.86
35:BF:82:ARG:HA	35:BF:92:TYR:CE1	2.11	0.86
36:BG:191:THR:OG1	36:BG:196:LEU:HD11	1.75	0.86
37:BH:70:ILE:HD12	37:BH:100:ARG:HH21	1.41	0.86
41:BL:21:LYS:O	41:BL:63:LEU:HB3	1.76	0.86
41:BL:26:VAL:HG22	41:BL:27:PRO:CD	2.06	0.86
55:CA:237:VAL:C	55:CA:291:THR:HG23	2.01	0.86
1:AA:51:G:H1'	1:AA:118:A:N6	1.89	0.85
1:AA:242:G:C3'	31:Ae:4:MET:HG3	2.06	0.85
1:AA:586:A:C2	1:AA:809:G:N2	2.43	0.85
1:AA:974:G:H3'	1:AA:974(A):C:C5'	2.04	0.85
1:AA:2742:C:OP1	32:Af:2:LYS:HE2	1.75	0.85
4:AD:61:LEU:HD13	4:AD:86:PRO:HD3	1.58	0.85
5:AE:173:VAL:HG22	5:AE:174:ASP:N	1.90	0.85
10:AJ:33:ASN:CB	10:AJ:63:ARG:HB3	2.04	0.85
12:AL:52:VAL:CG2	12:AL:53:LYS:N	2.39	0.85
16:AP:26:LEU:O	16:AP:88:ASP:HB2	1.74	0.85
19:AS:62:LEU:HB2	19:AS:64:HIS:CE1	2.10	0.85
22:AV:16:ALA:HB3	22:AV:68:HIS:ND1	1.91	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:1:MET:HE1	27:Aa:9:LEU:HD21	1.57	0.85
27:Aa:5:ILE:CG2	27:Aa:57:GLU:HB2	2.05	0.85
34:BA:938:A:O2'	34:BA:939:G:H5'	1.75	0.85
34:BA:955:U:H1'	34:BA:1227:A:N6	1.90	0.85
34:BA:1137:C:H4'	34:BA:1138:G:N2	1.89	0.85
34:BA:1251:A:H2'	34:BA:1252:A:C8	2.11	0.85
35:BF:39:ILE:HG23	35:BF:41:ILE:HD11	1.55	0.85
35:BF:200:ILE:O	35:BF:202:PRO:HD3	1.75	0.85
38:BI:105:VAL:HG11	38:BI:131:ILE:HG22	1.58	0.85
40:BK:69:VAL:HG21	40:BK:104:LEU:HD11	1.58	0.85
40:BK:74:GLU:O	40:BK:88:PRO:HA	1.75	0.85
48:BS:49:ASP:CG	48:BS:49:ASP:O	2.18	0.85
48:BS:64:ARG:HA	48:BS:67:LEU:HD12	1.58	0.85
49:BT:3:LYS:HB3	49:BT:3:LYS:NZ	1.91	0.85
52:BW:18:LYS:HE2	52:BW:22:LEU:CD1	2.05	0.85
54:BY:9:ARG:HH12	54:BY:21:TYR:HD2	1.21	0.85
55:CA:422:ARG:CZ	55:CA:480:VAL:O	2.24	0.85
55:CA:495:LYS:CA	55:CA:517:GLU:HA	2.04	0.85
1:AA:239:U:H1'	1:AA:259:G:N2	1.90	0.85
1:AA:389:G:C8	1:AA:2413:G:H4'	2.11	0.85
1:AA:429:A:H2'	1:AA:430:G:C8	2.11	0.85
1:AA:1257:C:H4'	6:AF:83:PHE:CD2	2.11	0.85
1:AA:1448:G:H4'	1:AA:1543:A:N6	1.91	0.85
1:AA:1559:G:C4	1:AA:1559:G:H3'	2.11	0.85
1:AA:2075:U:H2'	1:AA:2076:U:H5''	1.56	0.85
1:AA:2246:G:H2'	1:AA:2247:A:C8	2.11	0.85
1:AA:2647:U:HO2'	1:AA:2648:C:H6	1.23	0.85
2:AB:12:C:H5''	24:AX:74:ARG:HG2	1.56	0.85
4:AD:72:LYS:O	4:AD:74:GLY:N	2.10	0.85
10:AJ:86:LYS:HD2	10:AJ:87:GLY:N	1.91	0.85
19:AS:18:LEU:HB2	19:AS:66:ARG:HH22	1.39	0.85
22:AV:31:LEU:HB3	22:AV:32:PRO:CD	2.06	0.85
23:AW:78:LYS:HE2	23:AW:84:GLU:OE2	1.75	0.85
34:BA:496:A:H4'	34:BA:497:U:OP1	1.74	0.85
34:BA:562:C:O2'	45:BP:15:ARG:HD3	1.76	0.85
34:BA:691:G:O6	44:BO:55:LYS:HE2	1.75	0.85
34:BA:1293:G:H2'	34:BA:1294:G:H8	1.41	0.85
34:BA:1459:C:O2'	34:BA:1460:A:H5'	1.75	0.85
34:BA:1484:C:O2'	34:BA:1485:U:H5'	1.75	0.85
37:BH:126:ILE:O	37:BH:149:ALA:HB2	1.76	0.85
42:BM:55:ALA:HB1	42:BM:58:HIS:ND1	1.90	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:35:LYS:HZ1	49:BT:37:GLY:H	1.20	0.85
50:BU:45:HIS:O	50:BU:73:VAL:HG23	1.75	0.85
50:BU:66:SER:CB	50:BU:69:LYS:HZ3	1.89	0.85
55:CA:58:ALA:CA	55:CA:255:LEU:HD22	2.06	0.85
55:CA:303:ASP:HB2	55:CA:343:VAL:O	1.74	0.85
1:AA:280:C:N4	1:AA:283:A:H62	1.73	0.85
1:AA:725:G:H2'	1:AA:726:G:O4'	1.76	0.85
1:AA:1105:U:O4'	1:AA:1106:G:O5'	1.93	0.85
1:AA:1222:C:H42	1:AA:1227:A:H61	1.23	0.85
1:AA:1476:C:N4	1:AA:1517:G:C8	2.44	0.85
1:AA:1904:G:H2'	1:AA:1905:C:H5'	1.58	0.85
1:AA:2065:C:H2'	1:AA:2066:C:O4'	1.76	0.85
1:AA:2453:A:H4'	1:AA:2572:A:O2'	1.76	0.85
3:AC:181:PRO:HD2	3:AC:184:LYS:HD2	1.59	0.85
11:AK:74:ARG:O	11:AK:74:ARG:HG2	1.74	0.85
16:AP:93:LYS:HE2	16:AP:95:HIS:HB3	1.57	0.85
20:AT:48:ALA:O	20:AT:51:LEU:HB2	1.75	0.85
20:AT:55:ALA:O	20:AT:58:ALA:HB3	1.76	0.85
21:AU:63:LYS:N	21:AU:63:LYS:HE2	1.91	0.85
34:BA:713:G:H2'	34:BA:714:G:C8	2.11	0.85
34:BA:979:C:H42	47:BR:18:VAL:HB	1.39	0.85
34:BA:983:A:H3'	34:BA:983:A:N3	1.91	0.85
34:BA:1164:G:O2'	34:BA:1165:C:H5'	1.76	0.85
35:BF:167:PRO:O	35:BF:169:LYS:N	2.09	0.85
44:BO:33:THR:HA	44:BO:39:PRO:HA	1.57	0.85
47:BR:24:CYS:HB2	47:BR:39:LEU:C	2.01	0.85
48:BS:36:ILE:CD1	48:BS:63:ARG:HD3	2.07	0.85
50:BU:91:ARG:HA	50:BU:94:ASN:HD22	1.41	0.85
55:CA:180:ALA:N	55:CA:181:GLU:O	2.09	0.85
55:CA:250:LYS:C	55:CA:273:ILE:CD1	2.48	0.85
55:CA:325:PHE:CD2	55:CA:330:GLN:HG2	2.11	0.85
55:CA:601:ASN:HA	55:CA:602:ARG:O	1.77	0.85
1:AA:5:A:N1	1:AA:2899:G:C4	2.44	0.85
1:AA:443:A:H4'	1:AA:1201:C:H5'	1.58	0.85
1:AA:1057:A:N6	1:AA:1086:A:O2'	2.09	0.85
1:AA:1275:A:N3	15:AO:12:ARG:NH2	2.24	0.85
1:AA:1341:U:H2'	1:AA:1341:U:O2	1.74	0.85
1:AA:1526:G:H5''	1:AA:1527:G:OP1	1.76	0.85
1:AA:2197:U:H2'	1:AA:2224:G:H22	1.42	0.85
1:AA:2447:G:O2'	1:AA:2448:A:OP2	1.93	0.85
1:AA:2533:A:H1'	1:AA:2664:G:H4'	1.57	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2646:C:H2'	1:AA:2647:U:C6	2.11	0.85
1:AA:2657:A:N6	1:AA:2664:G:HO2'	1.73	0.85
1:AA:2797:U:H4'	1:AA:2798:C:C4'	2.05	0.85
3:AC:22:ILE:HG21	3:AC:190:ARG:NH1	1.91	0.85
11:AK:57:ALA:HB3	11:AK:124:ALA:CA	2.07	0.85
13:AM:128:HIS:HA	13:AM:147:LEU:CD2	2.05	0.85
18:AR:55:ARG:O	18:AR:58:ARG:HB3	1.75	0.85
26:AZ:40:THR:HG22	26:AZ:42:ALA:H	1.41	0.85
34:BA:310:G:H2'	34:BA:311:C:C6	2.12	0.85
34:BA:571:U:H3'	34:BA:572:A:C5'	1.99	0.85
34:BA:1302:U:OP2	46:BQ:21:TYR:CE2	2.28	0.85
36:BG:11:ARG:HG3	36:BG:16:ARG:HH21	1.40	0.85
37:BH:133:VAL:HG11	37:BH:138:TYR:CD1	2.11	0.85
41:BL:97:VAL:HG22	41:BL:98:LYS:H	1.41	0.85
44:BO:58:PRO:HB3	44:BO:90:GLY:CA	2.06	0.85
55:CA:57:LEU:HG	55:CA:254:VAL:C	2.00	0.85
55:CA:313:VAL:HG12	55:CA:314:ASN:H	1.40	0.85
55:CA:496:ALA:N	55:CA:515:GLY:O	2.09	0.85
55:CA:509:LYS:HG3	55:CA:561:ILE:HD11	1.58	0.85
1:AA:270(I):G:N3	1:AA:270(J):G:H1'	1.89	0.85
1:AA:901:A:N7	1:AA:902:C:C4	2.43	0.85
1:AA:903:C:O2'	1:AA:904:C:H5'	1.77	0.85
1:AA:1081:U:C5'	10:AJ:125:ARG:CG	2.55	0.85
1:AA:1144:G:H2'	1:AA:1145:C:C5	2.11	0.85
1:AA:1151:G:H2'	1:AA:1152:C:C6	2.11	0.85
1:AA:1406:U:H2'	1:AA:1407:C:C6	2.11	0.85
1:AA:1820:U:C2'	4:AD:202:LYS:HG3	2.06	0.85
1:AA:1936:A:H5'	1:AA:1937:A:N3	1.92	0.85
1:AA:2323:G:H2'	1:AA:2324:C:C6	2.11	0.85
1:AA:2327:A:C2'	1:AA:2328:A:H8	1.90	0.85
1:AA:2629:A:H3'	1:AA:2895:U:C5	2.06	0.85
1:AA:2691:C:C4	1:AA:2719:G:N2	2.45	0.85
2:AB:78:A:C5	2:AB:99:A:N6	2.43	0.85
6:AF:110:LEU:HD11	6:AF:181:LEU:HD23	1.57	0.85
6:AF:130:ALA:CB	6:AF:142:TRP:HB2	1.99	0.85
6:AF:158:THR:HG21	6:AF:195:ASP:HB2	1.56	0.85
12:AL:115:VAL:CG1	34:BA:345:C:C2	2.54	0.85
18:AR:49:HIS:CD2	18:AR:52:ARG:NH2	2.44	0.85
20:AT:18:ARG:HD3	20:AT:76:VAL:HG12	1.59	0.85
23:AW:57:ILE:CG2	23:AW:58:VAL:N	2.37	0.85
24:AX:21:LEU:HD12	24:AX:39:ARG:HB3	1.59	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:363:A:O2'	34:BA:364:A:H5'	1.76	0.85
34:BA:529:G:C8	34:BA:529:G:H3'	2.10	0.85
34:BA:1226:C:C6	46:BQ:104:ARG:HA	2.12	0.85
45:BP:86:ARG:HH12	45:BP:119:LYS:CG	1.90	0.85
51:BV:33:ASP:CG	51:BV:34:TYR:N	2.33	0.85
53:BX:89:ARG:O	53:BX:93:GLU:HG3	1.74	0.85
55:CA:398:GLU:OE2	55:CA:444:PRO:CB	2.24	0.85
1:AA:95:G:H2'	25:AY:43:HIS:NE2	1.91	0.85
1:AA:392:C:H2'	1:AA:393:C:C6	2.10	0.85
1:AA:882:G:O3'	1:AA:883:G:OP2	1.94	0.85
1:AA:894:C:H2'	1:AA:895:U:H5'	1.59	0.85
1:AA:1052:C:O2'	1:AA:1053:C:H5'	1.76	0.85
1:AA:1513:C:C4	1:AA:1514:U:O4	2.28	0.85
1:AA:1742:C:H3'	1:AA:1743:G:H5''	1.58	0.85
1:AA:1902:C:H5'	4:AD:244:ARG:NE	1.91	0.85
1:AA:1910:G:N9	1:AA:1921:G:C2	2.37	0.85
1:AA:1996:C:H2'	1:AA:1997:G:H4'	1.59	0.85
1:AA:2286:A:N6	29:Ac:32:ASN:N	2.23	0.85
1:AA:2658:C:N4	1:AA:2664:G:N2	2.25	0.85
1:AA:2714:G:C2'	1:AA:2715:C:H5'	2.06	0.85
4:AD:112:GLN:H	4:AD:115:GLN:NE2	1.74	0.85
10:AJ:123:ALA:CA	10:AJ:127:ILE:HG13	2.05	0.85
19:AS:73:SER:HG	19:AS:89:GLN:HB2	1.40	0.85
23:AW:79:ARG:C	23:AW:80:ARG:HD2	2.02	0.85
27:Aa:20:ASN:HB2	27:Aa:30:GLU:CD	2.01	0.85
34:BA:266:G:H2'	50:BU:67:LYS:NZ	1.91	0.85
34:BA:1126:U:OP1	34:BA:1280:A:H8	1.49	0.85
34:BA:1227:A:H4'	46:BQ:115:LYS:HZ1	1.41	0.85
35:BF:157:ARG:C	35:BF:158:LEU:HD23	2.02	0.85
37:BH:13:ARG:NH2	37:BH:40:PRO:HA	1.92	0.85
43:BN:24:VAL:HA	43:BN:34:VAL:HG21	1.59	0.85
44:BO:99:GLN:HB3	44:BO:105:VAL:HG11	1.56	0.85
46:BQ:12:ASN:CA	46:BQ:44:ARG:O	2.25	0.85
55:CA:89:MET:CB	55:CA:119:TYR:HE2	1.90	0.85
55:CA:127:ILE:H	55:CA:163:VAL:C	1.85	0.85
55:CA:163:VAL:HA	55:CA:174:LEU:O	1.77	0.85
55:CA:400:TYR:HB2	55:CA:442:VAL:CG1	2.03	0.85
55:CA:407:VAL:N	55:CA:436:ARG:NH1	2.07	0.85
55:CA:491:ASN:HD21	55:CA:536:ASN:HA	1.39	0.85
1:AA:95:G:O5'	25:AY:39:LEU:HB3	1.76	0.85
1:AA:263:C:H2'	1:AA:263:C:O2	1.74	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1179:C:O2'	1:AA:1180:C:O5'	1.93	0.85
2:AB:80:U:HO2'	2:AB:81:G:H8	1.21	0.85
4:AD:67:PHE:HD1	4:AD:153:ALA:HB3	1.42	0.85
4:AD:221:VAL:O	4:AD:222:ARG:HG3	1.77	0.85
4:AD:234:GLY:N	4:AD:241:PRO:HG2	1.90	0.85
7:AG:36:LYS:CE	7:AG:38:VAL:HG13	2.06	0.85
9:AI:153:LEU:C	9:AI:155:GLY:H	1.84	0.85
11:AK:70:LYS:HD2	11:AK:86:PRO:HG3	1.57	0.85
12:AL:39:ILE:C	12:AL:59:LYS:NZ	2.35	0.85
14:AN:44:ALA:CA	14:AN:47:ILE:HD12	2.07	0.85
14:AN:96:VAL:HG12	14:AN:98:LYS:NZ	1.92	0.85
15:AO:8:ARG:NE	15:AO:10:LEU:HD11	1.91	0.85
15:AO:77:ARG:HB2	15:AO:77:ARG:NH1	1.92	0.85
23:AW:79:ARG:HB2	23:AW:80:ARG:NH1	1.92	0.85
25:AY:4:GLN:HA	25:AY:7:GLU:OE1	1.77	0.85
26:AZ:3:ARG:HB3	26:AZ:3:ARG:HH11	1.34	0.85
31:Ae:7:HIS:HB2	31:Ae:8:LYS:NZ	1.91	0.85
34:BA:731:G:H2'	34:BA:732:C:H6	1.39	0.85
34:BA:949:A:H3'	46:BQ:102:ARG:CZ	2.04	0.85
34:BA:1268:A:N3	34:BA:1311:G:N3	2.25	0.85
34:BA:1271:G:OP1	34:BA:1314:C:H5''	1.76	0.85
34:BA:1311:G:N3	34:BA:1327:C:N1	2.25	0.85
34:BA:1342:C:O2'	42:BM:124:GLN:HB2	1.77	0.85
35:BF:97:TRP:HH2	35:BF:176:GLU:CD	1.84	0.85
35:BF:187:LEU:HD21	35:BF:203:GLY:O	1.76	0.85
44:BO:84:VAL:HG22	44:BO:109:VAL:O	1.77	0.85
47:BR:13:THR:HG22	47:BR:15:LYS:HB2	1.59	0.85
49:BT:27:LYS:N	49:BT:27:LYS:HZ2	1.74	0.85
53:BX:43:LEU:HD22	53:BX:48:LYS:HB2	1.58	0.85
55:CA:15:ASP:OD2	55:CA:16:HIS:NE2	2.10	0.85
55:CA:250:LYS:O	55:CA:273:ILE:HG13	1.76	0.85
1:AA:472:A:C2'	1:AA:473:G:H5''	2.06	0.85
1:AA:482:A:N3	1:AA:482:A:H2'	1.88	0.85
1:AA:530:G:H22	1:AA:2021:C:H3'	1.40	0.85
1:AA:704:G:N2	1:AA:726:G:O2'	2.10	0.85
1:AA:1059:G:C4'	10:AJ:74:ALA:H	1.89	0.85
1:AA:1154:G:H5''	18:AR:58:ARG:HD3	1.58	0.85
1:AA:1351:C:O2'	1:AA:1571:A:H1'	1.77	0.85
1:AA:1582:C:H3'	1:AA:1583:A:H5''	1.59	0.85
1:AA:2498:C:H2'	1:AA:2499:C:H5''	1.59	0.85
1:AA:2514:U:H2'	1:AA:2515:C:H6	1.41	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2570:G:H5'	1:AA:2571:C:OP2	1.75	0.85
1:AA:2748:A:H1'	8:AH:67:LEU:CD2	2.06	0.85
1:AA:2789:C:H2'	1:AA:2893:G:N2	1.92	0.85
4:AD:9:TYR:CZ	4:AD:25:THR:HG21	2.11	0.85
4:AD:108:PRO:HA	4:AD:195:ALA:O	1.76	0.85
6:AF:36:VAL:HG21	6:AF:183:VAL:CG2	2.06	0.85
8:AH:7:LEU:H	8:AH:8:PRO:CD	1.90	0.85
9:AI:140:GLY:HA3	33:Ag:137:UNK:N	1.92	0.85
11:AK:37:LYS:HA	11:AK:42:TRP:HB2	1.59	0.85
14:AN:112:GLU:HA	14:AN:115:MET:CG	2.06	0.85
18:AR:31:SER:O	18:AR:32:PHE:C	2.19	0.85
29:Ac:8:LYS:O	29:Ac:28:ARG:HB3	1.76	0.85
34:BA:551:U:H5'	45:BP:119:LYS:HZ1	1.42	0.85
34:BA:851:G:N2	34:BA:852:G:H1'	1.91	0.85
34:BA:1329:A:OP1	46:BQ:29:ARG:CG	2.25	0.85
34:BA:1388:C:H2'	34:BA:1389:C:H6	1.42	0.85
34:BA:1405:G:O6	34:BA:1496:C:N4	2.09	0.85
36:BG:150:LYS:HA	36:BG:169:ALA:HB2	1.58	0.85
37:BH:145:GLU:HB3	37:BH:184:LYS:HG2	1.57	0.85
38:BI:107:ARG:O	38:BI:111:GLU:HG3	1.76	0.85
40:BK:69:VAL:HG11	40:BK:104:LEU:HG	1.58	0.85
40:BK:99:LEU:O	40:BK:103:TRP:HB2	1.76	0.85
41:BL:18:ARG:HH11	41:BL:18:ARG:HG3	1.41	0.85
41:BL:95:VAL:CG2	41:BL:133:LEU:HD21	2.07	0.85
1:AA:88:G:H5'	1:AA:89:G:OP2	1.75	0.85
1:AA:269:U:H3	1:AA:270:A:H62	1.20	0.85
1:AA:764:A:N6	1:AA:1776:G:H1'	1.91	0.85
1:AA:806:C:H2'	1:AA:807:U:H6	1.41	0.85
1:AA:860:U:C5	1:AA:2267:A:H4'	2.12	0.85
1:AA:1542:G:H1'	1:AA:1543:A:N1	1.91	0.85
1:AA:1626:G:N2	1:AA:1634:A:H1'	1.92	0.85
1:AA:1662:C:H2'	1:AA:1663:C:C6	2.11	0.85
1:AA:1934:C:C5'	1:AA:1974:C:H4'	2.06	0.85
1:AA:1969:A:H4'	1:AA:1970:A:H5'	1.55	0.85
1:AA:2055:C:H2'	1:AA:2504:U:H5'	1.59	0.85
1:AA:2162:G:H2'	1:AA:2163:C:H5'	1.56	0.85
1:AA:2493:U:C6	1:AA:2493:U:H3'	2.11	0.85
1:AA:2674:G:H4'	12:AL:26:LYS:NZ	1.91	0.85
1:AA:2847:U:H3'	17:AQ:99:LEU:HD12	1.58	0.85
6:AF:4:VAL:O	6:AF:20:LEU:HD12	1.76	0.85
6:AF:44:ARG:HG3	6:AF:45:ARG:H	1.41	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:74:ARG:NE	6:AF:75:HIS:N	2.23	0.85
9:AI:141:VAL:C	33:Ag:134:UNK:HA	2.00	0.85
10:AJ:106:GLU:HA	10:AJ:109:LYS:HG3	1.58	0.85
13:AM:138:LEU:HD21	13:AM:145:PRO:HD3	1.58	0.85
14:AN:81:VAL:CG1	14:AN:82:ARG:H	1.87	0.85
15:AO:18:LEU:HB3	15:AO:22:ARG:HH21	1.42	0.85
15:AO:38:VAL:HB	15:AO:39:PRO:CD	2.06	0.85
16:AP:9:ARG:HH11	16:AP:9:ARG:CA	1.90	0.85
19:AS:67:GLY:HA2	19:AS:93:GLU:O	1.76	0.85
20:AT:12:ILE:HG12	20:AT:101:SER:HB2	1.59	0.85
20:AT:59:VAL:CA	20:AT:63:ASP:HA	2.07	0.85
22:AV:64:GLU:OE1	22:AV:64:GLU:HA	1.74	0.85
23:AW:122:ARG:HG2	23:AW:171:ILE:HA	1.56	0.85
25:AY:27:LEU:HD13	25:AY:52:ILE:HD11	1.56	0.85
29:Ac:19:ARG:NH1	29:Ac:43:CYS:CB	2.40	0.85
34:BA:65:U:H4'	34:BA:66:G:C5'	2.06	0.85
34:BA:1226:C:C1'	52:BW:80:TYR:CE2	2.57	0.85
35:BF:91:PRO:HB3	35:BF:152:PHE:CD1	2.12	0.85
46:BQ:70:LEU:HD12	46:BQ:70:LEU:O	1.77	0.85
48:BS:53:HIS:O	48:BS:57:LEU:HD13	1.76	0.85
51:BV:45:SER:HB3	51:BV:51:LEU:HD11	1.56	0.85
53:BX:83:ARG:O	53:BX:86:ARG:HG2	1.75	0.85
55:CA:39:GLN:N	55:CA:40:GLU:HA	1.92	0.85
55:CA:209:ILE:HG23	55:CA:222:GLY:C	2.02	0.85
55:CA:234:ASN:HA	55:CA:235:GLN:HB3	1.58	0.85
1:AA:76:C:H2'	1:AA:77:C:H5'	1.55	0.85
1:AA:83:G:O6	1:AA:102:G:H1'	1.76	0.85
1:AA:271(B):G:H5''	1:AA:271(C):U:O4'	1.77	0.85
1:AA:319:C:H2'	1:AA:320:A:C8	2.11	0.85
1:AA:587:C:C5	13:AM:30:THR:HG21	2.11	0.85
1:AA:665:C:H2'	1:AA:666:G:C8	2.12	0.85
1:AA:673:C:H4'	6:AF:82:ILE:CD1	2.07	0.85
1:AA:723:G:N2	1:AA:724:U:H1'	1.92	0.85
1:AA:775:G:H5'	1:AA:777:A:H1'	1.59	0.85
1:AA:873:G:H4'	14:AN:65:PHE:CE1	2.12	0.85
1:AA:1061:U:O5'	10:AJ:52:ILE:HD11	1.77	0.85
1:AA:1810:A:H2'	1:AA:1811:G:H5'	1.57	0.85
1:AA:2651:C:C2	1:AA:2670:A:C2	2.61	0.85
1:AA:2652:C:C2	1:AA:2670:A:H1'	2.12	0.85
4:AD:63:ARG:NH1	4:AD:87:ASN:HD21	1.75	0.85
4:AD:147:LEU:CG	4:AD:154:LYS:HD2	2.07	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:8:LYS:HD3	5:AE:9:VAL:N	1.90	0.85
7:AG:32:PRO:HB2	7:AG:163:ALA:HA	1.59	0.85
8:AH:121:ILE:HD11	8:AH:123:PHE:CE1	2.12	0.85
10:AJ:98:ARG:NH2	10:AJ:100:THR:HA	1.91	0.85
13:AM:117:GLU:O	13:AM:121:LYS:HG2	1.77	0.85
16:AP:11:LYS:HD3	16:AP:11:LYS:H	1.42	0.85
24:AX:51:VAL:HG11	24:AX:79:VAL:CG2	2.06	0.85
26:AZ:26:LEU:HG	26:AZ:35:ARG:NH2	1.91	0.85
29:Ac:19:ARG:HH12	29:Ac:41:PRO:CG	1.88	0.85
32:Af:9:ARG:HA	32:Af:34:GLN:HE22	1.42	0.85
34:BA:559:A:H4'	34:BA:560:U:H5'	0.92	0.85
34:BA:939:G:H2'	34:BA:940:C:C6	2.11	0.85
34:BA:1318:A:O3'	52:BW:38:SER:HA	1.70	0.85
34:BA:1319:A:H5''	52:BW:70:LYS:HZ2	0.87	0.85
34:BA:1394:A:H62	34:BA:1501:C:H5'	1.41	0.85
34:BA:1455:G:P	53:BX:32:ALA:O	2.34	0.85
34:BA:1516:G:N2	34:BA:1518:A:H3'	1.91	0.85
45:BP:25:PRO:C	45:BP:27:LEU:H	1.84	0.85
46:BQ:22:ILE:O	46:BQ:25:ILE:HG13	1.76	0.85
46:BQ:36:LYS:CB	46:BQ:56:LEU:HD21	2.01	0.85
49:BT:74:LEU:O	49:BT:77:ALA:HB3	1.77	0.85
52:BW:3:ARG:NE	52:BW:45:VAL:CG1	2.39	0.85
55:CA:29:SER:OG	55:CA:60:ASN:OD1	1.94	0.85
55:CA:106:MET:HB3	55:CA:108:GLN:OE1	1.76	0.85
55:CA:245:LYS:HZ1	55:CA:291:THR:HB	1.37	0.85
55:CA:400:TYR:O	55:CA:442:VAL:HG13	1.77	0.85
1:AA:210:C:H5''	30:Ad:29:LYS:HZ1	1.40	0.84
1:AA:858:U:H2'	1:AA:2268:A:C8	2.11	0.84
1:AA:976:C:O2'	1:AA:977:G:H5'	1.76	0.84
1:AA:987:G:O2'	1:AA:1000:A:H1'	1.77	0.84
1:AA:1033:U:O3'	1:AA:1034:G:P	2.34	0.84
1:AA:1066:U:H1'	1:AA:1069:A:OP2	1.77	0.84
1:AA:1144:G:H2'	1:AA:1145:C:H6	1.38	0.84
1:AA:1814:G:H2'	1:AA:1815:A:N7	1.93	0.84
1:AA:2329:G:H22	1:AA:2386:C:N4	1.75	0.84
1:AA:2416:C:OP1	13:AM:59:LEU:CA	2.25	0.84
1:AA:2644:G:H8	1:AA:2644:G:O5'	1.59	0.84
1:AA:2667:C:H2'	1:AA:2668:G:H5'	1.59	0.84
4:AD:232:PRO:HG2	4:AD:247:ALA:HA	1.57	0.84
5:AE:173:VAL:HG22	5:AE:174:ASP:H	1.40	0.84
7:AG:91:ARG:HB2	7:AG:91:ARG:NH1	1.91	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:12:ASP:HB3	12:AL:93:PRO:HG2	1.59	0.84
12:AL:47:ILE:HD11	12:AL:52:VAL:HG13	1.57	0.84
12:AL:96:THR:O	12:AL:97:ARG:HB3	1.74	0.84
13:AM:108:LYS:HD3	13:AM:109:GLY:H	1.40	0.84
14:AN:81:VAL:HG12	14:AN:82:ARG:N	1.90	0.84
20:AT:47:VAL:O	20:AT:51:LEU:HD13	1.76	0.84
22:AV:2:ARG:CD	22:AV:3:VAL:H	1.90	0.84
23:AW:144:LEU:C	23:AW:174:VAL:HG21	2.01	0.84
26:AZ:7:LYS:O	26:AZ:54:VAL:HG23	1.76	0.84
34:BA:43:C:H5'	49:BT:12:LYS:CB	2.01	0.84
35:BF:95:GLN:NE2	35:BF:148:TYR:HB3	1.91	0.84
42:BM:101:PHE:C	42:BM:102:LEU:HD23	2.01	0.84
52:BW:30:LEU:HA	52:BW:49:ILE:HA	1.58	0.84
55:CA:205:PHE:HZ	55:CA:226:ILE:CD1	1.79	0.84
55:CA:234:ASN:ND2	55:CA:249:ALA:HA	1.92	0.84
1:AA:269:U:H3	1:AA:270:A:N6	1.74	0.84
1:AA:270(B):A:H1'	1:AA:270(C):C:C5	2.11	0.84
1:AA:503:A:H4'	1:AA:504:U:C5'	2.05	0.84
1:AA:806:C:H2'	1:AA:807:U:C6	2.12	0.84
1:AA:811:U:O4	13:AM:22:GLY:CA	2.25	0.84
1:AA:1046:A:N3	9:AI:11:ALA:HB3	1.92	0.84
1:AA:1062:G:H1'	1:AA:1063:G:H5'	1.59	0.84
1:AA:1725:G:H22	1:AA:1726:G:H1'	1.39	0.84
1:AA:1799:G:H1	4:AD:157:ARG:NH1	1.73	0.84
1:AA:2043:C:N4	1:AA:2777:G:N3	2.25	0.84
1:AA:2275:C:H4'	1:AA:2276:G:O5'	1.77	0.84
1:AA:2492:U:H2'	1:AA:2492:U:O2	1.75	0.84
1:AA:2602:A:N3	24:AX:1:MET:HA	1.92	0.84
1:AA:2714:G:C6	1:AA:2715:C:C4	2.65	0.84
3:AC:120:MET:HE1	3:AC:138:PRO:HB2	1.57	0.84
3:AC:182:PRO:HG2	3:AC:183:GLU:OE2	1.76	0.84
7:AG:135:LEU:HD22	7:AG:136:ARG:N	1.92	0.84
8:AH:121:ILE:HG13	8:AH:133:VAL:HG21	1.59	0.84
10:AJ:55:VAL:HB	10:AJ:56:GLU:HA	1.59	0.84
11:AK:35:ARG:N	11:AK:49:GLY:HA2	1.91	0.84
12:AL:10:VAL:CG1	12:AL:17:ARG:HA	2.06	0.84
12:AL:52:VAL:HG22	12:AL:53:LYS:N	1.86	0.84
17:AQ:44:ASP:O	17:AQ:46:GLU:N	2.10	0.84
18:AR:50:ARG:HB2	18:AR:50:ARG:HH11	1.39	0.84
19:AS:5:VAL:N	19:AS:12:TYR:HD2	1.74	0.84
19:AS:11:GLN:O	19:AS:21:ARG:HD2	1.78	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:82:PRO:CG	22:AV:97:ARG:H	1.91	0.84
34:BA:399:G:H2'	34:BA:400:C:H6	1.41	0.84
34:BA:859:A:H2'	34:BA:860:A:O4'	1.77	0.84
34:BA:1064:G:H1'	34:BA:1066:C:N3	1.91	0.84
34:BA:1308:U:O2	34:BA:1309:G:C5'	2.18	0.84
34:BA:1400:C:H4'	34:BA:1401:G:OP2	1.75	0.84
35:BF:80:ILE:CD1	35:BF:208:ILE:HG23	2.08	0.84
38:BI:102:ALA:CB	38:BI:106:PRO:HB2	2.07	0.84
40:BK:45:ASP:HA	40:BK:48:LYS:NZ	1.91	0.84
42:BM:63:ILE:HD12	42:BM:63:ILE:N	1.92	0.84
43:BN:61:GLU:HG2	43:BN:62:HIS:H	1.42	0.84
46:BQ:40:ASN:OD1	46:BQ:42:ALA:HB3	1.77	0.84
53:BX:25:ARG:HG2	53:BX:29:LYS:HE3	1.59	0.84
54:BY:18:TYR:HB3	54:BY:22:ARG:O	1.76	0.84
55:CA:381:ALA:CA	55:CA:578:VAL:O	2.17	0.84
1:AA:90:U:O2'	1:AA:91:A:H5''	1.77	0.84
1:AA:295:G:C2	1:AA:344:G:H1'	2.12	0.84
1:AA:483:A:O3'	22:AV:48:ALA:HB2	1.77	0.84
1:AA:511:U:C5	1:AA:512:G:N3	2.46	0.84
1:AA:1263:U:C2	1:AA:1264:G:N2	2.46	0.84
1:AA:1263:U:H5''	28:Ab:10:LYS:NZ	1.92	0.84
1:AA:1458:C:H4'	1:AA:1459:G:C8	2.11	0.84
1:AA:2447:G:N7	1:AA:2500:U:C2'	2.39	0.84
2:AB:75:G:H2'	23:AW:85:HIS:HE1	1.43	0.84
4:AD:172:TYR:HB3	4:AD:184:LYS:HG2	1.60	0.84
5:AE:101:ARG:HD2	5:AE:169:ASN:HD21	1.42	0.84
5:AE:133:LYS:HD2	5:AE:137:HIS:CG	2.13	0.84
11:AK:18:ALA:HB3	11:AK:55:VAL:O	1.77	0.84
13:AM:72:PRO:HG3	13:AM:110:TYR:CD1	2.11	0.84
14:AN:40:ALA:HA	14:AN:98:LYS:HG3	1.60	0.84
16:AP:97:ARG:O	16:AP:100:ALA:HB3	1.77	0.84
17:AQ:30:VAL:HG21	17:AQ:90:GLN:HA	1.59	0.84
22:AV:7:VAL:HG13	22:AV:71:LYS:HB3	1.59	0.84
23:AW:39:VAL:HG21	23:AW:86:VAL:HG23	1.59	0.84
23:AW:48:PHE:HB3	23:AW:54:HIS:HE1	1.42	0.84
29:Ac:33:LYS:HE2	29:Ac:34:LEU:N	1.91	0.84
34:BA:163:C:H2'	34:BA:164:U:O4'	1.77	0.84
34:BA:451:A:N6	34:BA:480:U:H2'	1.92	0.84
34:BA:611:A:H61	34:BA:629:G:H1	0.88	0.84
35:BF:61:LEU:HD23	35:BF:62:ALA:N	1.91	0.84
37:BH:18:LYS:HA	37:BH:33:MET:CE	2.07	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:20:TYR:CD1	37:BH:21:LEU:N	2.45	0.84
37:BH:29:PRO:HA	37:BH:34:GLU:HG2	1.59	0.84
49:BT:53:VAL:O	49:BT:56:ALA:HB3	1.77	0.84
51:BV:47:THR:H	51:BV:49:LYS:HZ3	1.24	0.84
52:BW:41:VAL:HB	52:BW:42:PRO:CD	2.07	0.84
55:CA:27:GLN:OE1	55:CA:183:MET:HG3	1.75	0.84
55:CA:67:ASP:CG	55:CA:191:VAL:HG22	2.01	0.84
55:CA:165:ALA:CA	55:CA:171:ILE:CG2	2.51	0.84
1:AA:714:U:H2'	1:AA:715:G:C8	2.11	0.84
1:AA:775:G:N2	1:AA:787:U:C2'	2.41	0.84
1:AA:813:U:OP2	13:AM:26:GLY:HA2	1.77	0.84
1:AA:1658:C:OP1	5:AE:134:ILE:HB	1.76	0.84
1:AA:2226:C:O2	1:AA:2226:C:H2'	1.76	0.84
2:AB:12:C:O4'	24:AX:74:ARG:NE	2.10	0.84
4:AD:89:SER:O	4:AD:159:ALA:HB2	1.77	0.84
4:AD:175:LEU:O	4:AD:182:LEU:HA	1.78	0.84
5:AE:158:GLY:O	5:AE:160:TYR:HD1	1.59	0.84
6:AF:178:PRO:C	6:AF:180:GLY:H	1.82	0.84
8:AH:94:TYR:C	8:AH:95:ARG:HD2	2.01	0.84
10:AJ:15:GLY:H	10:AJ:45:THR:CB	1.88	0.84
10:AJ:62:ASP:HB3	10:AJ:63:ARG:C	2.03	0.84
15:AO:45:ARG:O	15:AO:49:ASP:HB2	1.75	0.84
19:AS:5:VAL:HG13	19:AS:38:LEU:O	1.76	0.84
19:AS:27:ALA:O	19:AS:33:VAL:HG21	1.77	0.84
23:AW:127:LYS:HD2	23:AW:163:LEU:CA	2.07	0.84
24:AX:21:LEU:HG	24:AX:22:GLY:H	1.40	0.84
34:BA:482:A:N3	34:BA:482:A:H2'	1.93	0.84
34:BA:595:G:C8	34:BA:641:U:C4	2.64	0.84
34:BA:872:A:O2'	34:BA:873:A:H5''	1.76	0.84
34:BA:1220:G:OP1	52:BW:34:TRP:CB	2.15	0.84
34:BA:1327:C:H5''	54:BY:20:LYS:CD	2.07	0.84
35:BF:176:GLU:O	35:BF:180:LEU:HG	1.76	0.84
55:CA:73:VAL:HB	55:CA:75:THR:OG1	1.78	0.84
55:CA:215:ASN:HD22	55:CA:218:VAL:HG23	1.39	0.84
1:AA:6:A:C4	1:AA:2898:U:C2	2.65	0.84
1:AA:387:U:O5'	27:Aa:29:PRO:HG3	1.77	0.84
1:AA:756:C:H2'	1:AA:757:U:H5'	1.59	0.84
1:AA:917:A:H2'	1:AA:918:A:H5''	1.58	0.84
1:AA:931:G:H21	26:AZ:24:LYS:HB3	1.40	0.84
1:AA:1068:G:C5'	1:AA:1096:A:H1'	2.07	0.84
1:AA:1353:A:H2'	1:AA:1354:A:C8	2.12	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1527:G:H1'	1:AA:1528:A:N3	1.91	0.84
1:AA:1660:C:N4	1:AA:2001:A:N6	2.26	0.84
1:AA:2111:C:OP2	1:AA:2111:C:H6	1.60	0.84
2:AB:27:C:N4	2:AB:56:G:N1	2.24	0.84
4:AD:96:HIS:CE1	4:AD:102:LYS:HD3	2.12	0.84
4:AD:106:ILE:HG13	4:AD:108:PRO:HD3	1.58	0.84
5:AE:1:MET:C	5:AE:2:LYS:HG3	2.02	0.84
6:AF:41:LEU:HA	6:AF:44:ARG:NE	1.92	0.84
6:AF:118:ALA:HB2	6:AF:122:LYS:HE2	1.59	0.84
8:AH:11:VAL:CG2	8:AH:50:VAL:HG21	2.07	0.84
10:AJ:33:ASN:HB3	10:AJ:63:ARG:N	1.92	0.84
10:AJ:99:ILE:O	10:AJ:100:THR:OG1	1.93	0.84
14:AN:35:VAL:HG23	14:AN:101:ARG:O	1.76	0.84
18:AR:55:ARG:HG2	18:AR:55:ARG:NH1	1.87	0.84
18:AR:81:HIS:O	18:AR:84:LYS:HB2	1.78	0.84
26:AZ:8:LEU:HD12	26:AZ:31:LEU:O	1.78	0.84
34:BA:34:C:O2'	34:BA:35:G:H5'	1.77	0.84
34:BA:186(B):C:H4'	53:BX:89:ARG:NH1	1.92	0.84
34:BA:761:G:C5'	50:BU:102:GLY:HA3	2.07	0.84
34:BA:1453:G:O2'	53:BX:36:LEU:HD13	1.75	0.84
36:BG:84:ILE:HG13	36:BG:101:LEU:HD22	1.59	0.84
36:BG:84:ILE:HA	36:BG:87:LEU:HD12	1.59	0.84
37:BH:31:CYS:O	37:BH:33:MET:HG2	1.78	0.84
37:BH:58:LEU:HD13	37:BH:59:ARG:HH11	1.38	0.84
44:BO:41:THR:OG1	44:BO:71:LYS:HD3	1.78	0.84
44:BO:58:PRO:HB2	44:BO:93:GLN:CB	2.07	0.84
46:BQ:15:VAL:HB	46:BQ:34:LEU:CG	2.04	0.84
46:BQ:64:TRP:CE2	46:BQ:66:LEU:HD22	2.13	0.84
49:BT:35:LYS:NZ	49:BT:37:GLY:H	1.73	0.84
51:BV:53:ARG:HA	51:BV:63:GLN:NE2	1.92	0.84
1:AA:371:A:H5''	1:AA:423:A:C8	2.12	0.84
1:AA:388:G:O5'	27:Aa:23:GLU:HB3	1.76	0.84
1:AA:533:G:OP2	18:AR:25:TRP:HB2	1.77	0.84
1:AA:594:U:H5''	31:Ae:61:LEU:HD13	1.59	0.84
1:AA:1079:C:H41	1:AA:1088:A:H5'	1.40	0.84
1:AA:1241:A:N3	1:AA:1241:A:C3'	2.39	0.84
1:AA:1270:C:C5'	1:AA:1271:G:H5''	2.07	0.84
1:AA:1743:G:H3'	1:AA:1746:G:H8	1.42	0.84
1:AA:1784:A:O2'	1:AA:1785:A:P	2.35	0.84
1:AA:2334:G:H22	2:AB:12:C:H42	1.23	0.84
1:AA:2791:C:H3'	1:AA:2791:C:P	2.18	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:177:LYS:HB2	3:AC:180:PHE:HB2	1.57	0.84
5:AE:14:ILE:HD12	5:AE:14:ILE:H	1.42	0.84
7:AG:8:LYS:HZ3	7:AG:103:LEU:HG	1.41	0.84
8:AH:7:LEU:HG	8:AH:51:ARG:NH1	1.93	0.84
10:AJ:37:PHE:HZ	10:AJ:63:ARG:HD3	1.04	0.84
10:AJ:122:ALA:O	10:AJ:126:MET:HB3	1.78	0.84
13:AM:45:LEU:HD13	31:Ae:59:LYS:NZ	1.91	0.84
13:AM:88:LEU:HD11	13:AM:124:LYS:HZ1	1.40	0.84
16:AP:12:PHE:CD1	16:AP:13:ARG:N	2.45	0.84
17:AQ:27:THR:HB	17:AQ:93:ARG:O	1.78	0.84
19:AS:9:GLY:O	19:AS:10:LYS:HB2	1.76	0.84
20:AT:35:ILE:HG13	28:Ab:28:PRO:HG3	1.59	0.84
26:AZ:17:LYS:HA	26:AZ:20:LYS:CE	2.07	0.84
34:BA:453:A:C6	34:BA:454:C:N4	2.45	0.84
34:BA:789:U:H6	34:BA:790:A:H5''	1.43	0.84
34:BA:910:C:O2'	34:BA:911:U:H5'	1.78	0.84
34:BA:949:A:H3'	46:BQ:102:ARG:HH11	1.42	0.84
34:BA:1058:G:H2'	34:BA:1059:C:O4'	1.76	0.84
34:BA:1312:G:O6	34:BA:1326:C:N4	2.10	0.84
34:BA:1350:A:OP2	42:BM:118:LYS:HG3	1.76	0.84
35:BF:71:VAL:HG22	35:BF:93:VAL:HB	1.59	0.84
36:BG:21:ARG:HB2	36:BG:58:GLU:HG2	1.59	0.84
48:BS:39:LEU:CD2	48:BS:56:LEU:HD22	2.08	0.84
48:BS:75:PRO:C	48:BS:78:TYR:HB3	2.02	0.84
53:BX:40:ALA:HA	53:BX:55:ILE:CD1	2.06	0.84
55:CA:322:GLU:HG2	55:CA:379:GLU:CD	2.03	0.84
1:AA:197:A:H62	1:AA:248:G:H22	1.24	0.84
1:AA:265:A:C8	1:AA:265:A:C3'	2.56	0.84
1:AA:1213:A:N6	1:AA:1236:G:H1'	1.92	0.84
1:AA:1312:U:H2'	1:AA:1313:U:H6	1.40	0.84
1:AA:1540:G:C5	1:AA:1541:U:H1'	2.12	0.84
1:AA:1700:A:H2'	1:AA:1701:A:C5'	2.07	0.84
1:AA:1971:A:H3'	1:AA:1971:A:C8	2.13	0.84
1:AA:2207:C:H2'	1:AA:2208:U:H4'	1.57	0.84
1:AA:2530:A:C3'	1:AA:2531:A:H5''	2.07	0.84
1:AA:2688:U:O2	1:AA:2688:U:H2'	1.78	0.84
1:AA:2788:C:N3	1:AA:2789:C:N4	2.26	0.84
1:AA:2790:A:C4'	1:AA:2893:G:N2	2.41	0.84
2:AB:12:C:C5'	24:AX:74:ARG:HG2	2.08	0.84
4:AD:175:LEU:HD22	4:AD:176:ARG:N	1.92	0.84
4:AD:232:PRO:CD	4:AD:247:ALA:HA	2.08	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:22:PRO:HA	5:AE:185:LYS:HA	1.60	0.84
5:AE:136:ARG:NH1	5:AE:136:ARG:O	2.11	0.84
11:AK:78:TYR:O	11:AK:79:PRO:C	2.17	0.84
13:AM:52:GLU:HA	13:AM:55:ARG:HG3	1.59	0.84
15:AO:59:ASP:O	15:AO:63:ARG:HG3	1.77	0.84
15:AO:61:HIS:HA	15:AO:64:ARG:HD3	1.58	0.84
20:AT:4:LYS:HA	20:AT:106:ILE:CD1	2.08	0.84
21:AU:17:ALA:HB1	21:AU:27:THR:OG1	1.76	0.84
27:Aa:38:LYS:O	27:Aa:39:CYS:HB2	1.75	0.84
32:Af:20:HIS:C	32:Af:22:ARG:H	1.81	0.84
34:BA:20:U:H5'	34:BA:572:A:H61	1.38	0.84
34:BA:524:G:H2'	34:BA:525:C:C6	2.13	0.84
34:BA:628:G:H2'	34:BA:629:G:H8	1.42	0.84
34:BA:959:A:H2'	34:BA:960:U:H4'	1.59	0.84
34:BA:1143:G:H2'	34:BA:1144:G:C8	2.11	0.84
34:BA:1310:G:C5	34:BA:1327:C:C4	2.65	0.84
34:BA:1347:G:H8	42:BM:107:ARG:HB3	1.41	0.84
34:BA:1494:G:OP2	34:BA:1494:G:H3'	1.77	0.84
35:BF:7:VAL:HG23	35:BF:8:LYS:H	1.42	0.84
35:BF:213:LEU:CD2	35:BF:214:ILE:HD13	2.08	0.84
37:BH:197:PRO:O	37:BH:198:VAL:HG13	1.78	0.84
39:BJ:98:LEU:HD22	39:BJ:101:ALA:HB2	1.57	0.84
42:BM:8:GLY:O	42:BM:76:ALA:HB1	1.77	0.84
45:BP:88:GLY:HA3	45:BP:99:HIS:NE2	1.91	0.84
46:BQ:29:ARG:CD	46:BQ:64:TRP:CH2	2.61	0.84
50:BU:62:SER:HB3	50:BU:72:ARG:HE	1.40	0.84
55:CA:311:PHE:H	55:CA:356:PHE:N	1.75	0.84
55:CA:378:PHE:N	55:CA:582:PRO:CG	2.40	0.84
1:AA:702:G:O2'	1:AA:703:U:H5'	1.78	0.84
1:AA:727:A:N1	1:AA:729:G:C6	2.45	0.84
1:AA:901:A:C6	1:AA:902:C:C4	2.65	0.84
1:AA:949:C:H2'	1:AA:950:G:H8	1.42	0.84
1:AA:1106:G:C6	1:AA:1107:G:C6	2.64	0.84
1:AA:1312:U:H5''	21:AU:62:LYS:HB3	1.59	0.84
1:AA:1906:G:C6	1:AA:1929:G:N1	2.45	0.84
1:AA:2123:G:H4'	3:AC:172:HIS:CG	2.13	0.84
1:AA:2142:C:H2'	1:AA:2143:C:C6	2.11	0.84
1:AA:2533:A:O4'	1:AA:2664:G:O2'	1.96	0.84
1:AA:2553:G:N2	1:AA:2554:U:HO2'	1.74	0.84
2:AB:32:C:H2'	2:AB:33:G:C8	2.12	0.84
2:AB:102:G:C2'	23:AW:73:GLN:HE21	1.91	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:149:ARG:CZ	8:AH:164:TYR:HD1	1.91	0.84
10:AJ:19:PRO:CG	10:AJ:37:PHE:N	2.40	0.84
12:AL:121:VAL:HG12	17:AQ:70:VAL:O	1.78	0.84
14:AN:7:MET:H	14:AN:70:PRO:CG	1.89	0.84
14:AN:85:LYS:C	14:AN:87:LYS:H	1.81	0.84
19:AS:49:THR:CB	19:AS:50:PRO:HD2	2.04	0.84
34:BA:684:A:H2'	34:BA:685:G:C8	2.11	0.84
34:BA:915:A:C2'	34:BA:916:G:H5'	2.08	0.84
34:BA:1129:C:N4	34:BA:1139:G:C6	2.45	0.84
35:BF:54:THR:O	35:BF:58:ILE:HG13	1.76	0.84
35:BF:192:SER:C	35:BF:194:PRO:HD3	2.03	0.84
35:BF:219:VAL:HG13	35:BF:222:ILE:HD11	1.59	0.84
36:BG:12:LEU:CG	47:BR:57:ARG:HG3	2.08	0.84
37:BH:7:PRO:O	37:BH:10:ARG:HB3	1.77	0.84
38:BI:109:ILE:CG2	38:BI:135:THR:HG21	2.04	0.84
40:BK:64:GLN:HG3	40:BK:128:ALA:O	1.77	0.84
41:BL:18:ARG:HH11	41:BL:18:ARG:CA	1.90	0.84
43:BN:94:VAL:HG12	43:BN:95:GLU:N	1.93	0.84
46:BQ:81:LEU:CD2	46:BQ:89:GLY:HA3	2.03	0.84
49:BT:39:TYR:CB	49:BT:49:LEU:HD13	2.04	0.84
55:CA:486:GLY:HA3	55:CA:527:HIS:CB	2.07	0.84
1:AA:24:G:H2'	1:AA:25:U:C6	2.13	0.84
1:AA:716:A:C2'	48:BS:44:LYS:HD3	2.08	0.84
1:AA:1044:G:N3	9:AI:6:ASN:CA	2.39	0.84
1:AA:1137:G:O2'	11:AK:105:GLY:HA3	1.77	0.84
1:AA:1334:G:H5''	21:AU:65:ARG:NH1	1.93	0.84
1:AA:1349:A:H2	1:AA:1598:C:N3	1.75	0.84
1:AA:1470:G:N2	1:AA:1522:G:H1	1.72	0.84
1:AA:1547:C:O2'	1:AA:1548:C:H5'	1.77	0.84
1:AA:1901:A:H4'	4:AD:244:ARG:HH12	1.40	0.84
1:AA:2063:C:H1'	1:AA:2451:A:H2	1.43	0.84
1:AA:2089:U:H2'	1:AA:2090:G:H8	1.42	0.84
1:AA:2438:U:H4'	1:AA:2440:C:OP1	1.78	0.84
1:AA:2650:U:O2'	1:AA:2651:C:H5'	1.76	0.84
1:AA:2787:C:H1'	5:AE:61:ARG:HD2	1.60	0.84
3:AC:75:LEU:HD22	3:AC:110:PHE:CZ	2.12	0.84
4:AD:136:ILE:HD13	4:AD:173:VAL:HG11	1.59	0.84
5:AE:4:ILE:O	5:AE:27:LEU:HD22	1.77	0.84
10:AJ:34:ILE:HD13	10:AJ:35:MET:N	1.89	0.84
11:AK:23:LEU:CD1	11:AK:63:THR:N	2.38	0.84
13:AM:45:LEU:HD13	31:Ae:59:LYS:HE3	1.57	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:28:ALA:O	14:AN:29:PHE:HB2	1.76	0.84
14:AN:43:THR:HA	14:AN:94:VAL:CG1	2.07	0.84
19:AS:49:THR:CG2	19:AS:50:PRO:HD2	2.08	0.84
20:AT:64:MET:HG2	20:AT:109:GLU:CG	2.08	0.84
23:AW:152:ALA:O	23:AW:155:LEU:HD22	1.78	0.84
27:Aa:68:ARG:HH11	27:Aa:68:ARG:CA	1.90	0.84
34:BA:1472:U:O2'	34:BA:1473:A:H5'	1.77	0.84
37:BH:20:TYR:CA	37:BH:33:MET:SD	2.66	0.84
39:BJ:50:TYR:OH	51:BV:77:GLY:HA2	1.77	0.84
40:BK:31:MET:HG2	40:BK:32:ARG:H	1.40	0.84
43:BN:60:ARG:N	43:BN:60:ARG:HH11	1.76	0.84
46:BQ:19:LEU:CG	46:BQ:30:ALA:HA	2.07	0.84
46:BQ:87:TYR:OH	52:BW:75:ALA:CB	2.25	0.84
48:BS:62:GLN:HA	48:BS:65:ARG:CZ	2.07	0.84
51:BV:53:ARG:HH22	51:BV:60:GLY:N	1.76	0.84
51:BV:76:LEU:H	51:BV:76:LEU:HD22	1.41	0.84
52:BW:30:LEU:HD21	52:BW:50:ALA:HB2	1.59	0.84
1:AA:247:G:H5'	1:AA:386:G:H3'	1.57	0.84
1:AA:587:C:H5	13:AM:30:THR:HG21	1.41	0.84
1:AA:606:U:H6	1:AA:606:U:O5'	1.60	0.84
1:AA:627:A:H5''	13:AM:75:ILE:HB	1.59	0.84
1:AA:1156:A:OP1	18:AR:55:ARG:CZ	2.26	0.84
1:AA:1493:C:N4	1:AA:1499:C:N3	2.26	0.84
1:AA:1700:A:H3'	1:AA:1701:A:H8	1.41	0.84
1:AA:1924:C:H2'	1:AA:1925:C:H6	1.42	0.84
1:AA:2809:A:C4'	1:AA:2811:G:N7	2.41	0.84
2:AB:114:G:H1'	16:AP:38:GLN:NE2	1.92	0.84
4:AD:5:LYS:HB3	4:AD:29:PRO:HD3	1.59	0.84
4:AD:51:VAL:CB	4:AD:52:ARG:CZ	2.53	0.84
5:AE:127:ASP:HB2	5:AE:135:HIS:CA	2.07	0.84
5:AE:131:ALA:HB1	5:AE:134:ILE:HG13	1.60	0.84
6:AF:4:VAL:C	6:AF:20:LEU:HD13	2.03	0.84
6:AF:139:PHE:O	6:AF:142:TRP:HB3	1.78	0.84
11:AK:39:ARG:HB3	11:AK:48:MET:HG3	1.60	0.84
12:AL:11:ALA:HB3	12:AL:97:ARG:HH22	1.43	0.84
17:AQ:87:ASP:C	17:AQ:88:ILE:HG13	2.03	0.84
18:AR:13:LYS:O	18:AR:17:ILE:HG12	1.78	0.84
18:AR:32:PHE:O	18:AR:35:ALA:HB3	1.78	0.84
20:AT:14:PRO:CD	20:AT:78:GLU:OE1	2.26	0.84
34:BA:363:A:N7	45:BP:30:ALA:HB1	1.91	0.84
34:BA:1005:A:H5''	34:BA:1006:C:C6	2.13	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1221:G:P	52:BW:52:TYR:O	2.36	0.84
34:BA:1247:U:H2'	34:BA:1248:A:H8	1.42	0.84
34:BA:1288:A:N1	34:BA:1371:G:H1'	1.92	0.84
34:BA:1310:G:N1	34:BA:1327:C:C6	1.92	0.84
34:BA:1344:C:H4'	42:BM:120:ARG:HB3	1.58	0.84
34:BA:1413:A:N1	34:BA:1488:G:C4	2.24	0.84
34:BA:1466:C:H3'	34:BA:1467:G:C8	2.13	0.84
34:BA:1481:U:H2'	34:BA:1482:G:C8	2.13	0.84
35:BF:81:VAL:HG12	35:BF:92:TYR:CD1	2.13	0.84
39:BJ:97:PHE:CD2	51:BV:31:LEU:HD13	2.13	0.84
40:BK:23:VAL:HG13	40:BK:43:PHE:CZ	2.12	0.84
45:BP:83:VAL:CG2	45:BP:104:VAL:HB	2.07	0.84
52:BW:15:LEU:HD11	52:BW:71:LEU:HD12	1.58	0.84
1:AA:24:G:H2'	1:AA:25:U:H6	1.42	0.83
1:AA:150:C:H2'	1:AA:150:C:O2	1.78	0.83
1:AA:176:G:H2'	1:AA:177:G:C8	2.13	0.83
1:AA:216:A:H2'	1:AA:217:G:C8	2.13	0.83
1:AA:251:A:H2'	1:AA:252:G:C4'	2.08	0.83
1:AA:514:A:H2	1:AA:515:A:N9	1.75	0.83
1:AA:724:U:O2'	1:AA:725:G:H5'	1.77	0.83
1:AA:1068:G:O2'	1:AA:1096:A:O3'	1.95	0.83
1:AA:1069:A:O2'	1:AA:1071:G:OP1	1.96	0.83
1:AA:1081:U:H5	1:AA:1082:U:C4	1.92	0.83
1:AA:1135:C:H2'	1:AA:1136:G:H8	1.42	0.83
1:AA:1655:A:H61	1:AA:2005:A:H1'	1.41	0.83
1:AA:1775:U:H2'	1:AA:1776:G:O4'	1.78	0.83
1:AA:2399:G:C2	1:AA:2400:G:H1'	2.11	0.83
1:AA:2876:G:H4'	17:AQ:1:MET:H2	1.43	0.83
3:AC:75:LEU:HD11	3:AC:99:ILE:HD13	1.60	0.83
5:AE:12:THR:HG21	5:AE:19:ARG:NH1	1.93	0.83
10:AJ:17:ALA:HB3	10:AJ:42:ASN:CG	2.03	0.83
10:AJ:99:ILE:CG2	10:AJ:103:GLN:OE1	2.26	0.83
11:AK:37:LYS:HD2	11:AK:43:THR:HA	1.57	0.83
12:AL:4:PRO:HG2	12:AL:5:GLN:N	1.91	0.83
12:AL:57:VAL:HG21	12:AL:85:VAL:HG13	1.58	0.83
19:AS:96:ILE:HD12	19:AS:96:ILE:O	1.78	0.83
29:Ac:20:ASN:ND2	29:Ac:41:PRO:HB2	1.92	0.83
34:BA:37:U:OP2	45:BP:123:LYS:HD2	1.76	0.83
34:BA:1510:U:H2'	34:BA:1511:G:C8	2.12	0.83
36:BG:190:ARG:HE	36:BG:190:ARG:HA	1.43	0.83
42:BM:49:PRO:HD3	42:BM:78:LYS:HG2	1.56	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:126:ARG:NH1	44:BO:126:ARG:HB3	1.93	0.83
49:BT:8:ARG:HH12	49:BT:11:SER:N	1.75	0.83
50:BU:75:ARG:NH2	50:BU:77:VAL:HG22	1.94	0.83
51:BV:74:ARG:HG2	51:BV:74:ARG:HH11	1.43	0.83
55:CA:52:ARG:NE	55:CA:52:ARG:HA	1.93	0.83
55:CA:172:ALA:N	55:CA:179:MET:CE	2.40	0.83
55:CA:426:LEU:HD12	55:CA:441:TYR:CE1	2.10	0.83
55:CA:541:LYS:HB2	55:CA:542:LYS:C	2.02	0.83
1:AA:541:C:H2'	1:AA:542:C:C6	2.13	0.83
1:AA:558:G:P	11:AK:112:LEU:HG	2.18	0.83
1:AA:820:A:C2'	1:AA:821:A:H5'	2.08	0.83
1:AA:833:U:O4'	13:AM:48:PRO:HD2	1.78	0.83
1:AA:1125:G:H4'	32:Af:4:ARG:HB3	1.60	0.83
1:AA:1543:A:OP2	1:AA:1544:C:C6	2.31	0.83
1:AA:1794:U:O2'	1:AA:1795:C:H5'	1.78	0.83
1:AA:1813:G:H4'	4:AD:46:GLN:HB3	1.60	0.83
1:AA:1918:A:H2'	34:BA:1408:A:H4'	1.59	0.83
1:AA:2027:G:H2'	1:AA:2028:U:H6	1.41	0.83
1:AA:2312:U:HO2'	7:AG:40:ASN:CG	1.86	0.83
1:AA:2576:G:H5''	1:AA:2577:A:OP1	1.78	0.83
1:AA:2631:G:C8	1:AA:2894:G:H8	1.96	0.83
1:AA:2756:U:N3	1:AA:2758:A:C6	2.46	0.83
1:AA:2794:C:N3	1:AA:2799:A:N3	2.25	0.83
1:AA:2847:U:H3'	17:AQ:99:LEU:HD11	1.59	0.83
2:AB:13:A:H2	2:AB:69:G:H21	1.24	0.83
5:AE:44:TYR:HD1	5:AE:45:THR:N	1.76	0.83
6:AF:157:VAL:CG1	6:AF:176:LEU:HD23	2.07	0.83
11:AK:3:THR:HG22	11:AK:4:TYR:H	1.41	0.83
11:AK:23:LEU:CD2	11:AK:61:ARG:O	2.26	0.83
12:AL:117:LEU:C	12:AL:117:LEU:HD23	2.03	0.83
14:AN:43:THR:O	14:AN:47:ILE:HG13	1.77	0.83
15:AO:20:LEU:HD21	15:AO:24:GLN:CG	2.07	0.83
15:AO:99:LYS:HG2	28:Ab:43:HIS:NE2	1.93	0.83
17:AQ:5:ALA:O	17:AQ:9:LEU:HG	1.79	0.83
18:AR:88:ILE:CG1	19:AS:52:VAL:HG13	2.08	0.83
34:BA:734:G:H2'	34:BA:735:C:C6	2.13	0.83
34:BA:1100:C:O2	34:BA:1102:A:H5'	1.76	0.83
34:BA:1483:A:O5'	34:BA:1483:A:H8	1.61	0.83
35:BF:215:LEU:O	35:BF:218:ALA:HB3	1.78	0.83
36:BG:12:LEU:HD21	47:BR:57:ARG:CG	2.07	0.83
38:BI:32:VAL:O	38:BI:43:LEU:HG	1.77	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:72:GLN:NE2	38:BI:144:THR:HG23	1.93	0.83
49:BT:55:ARG:HE	49:BT:55:ARG:HA	1.41	0.83
50:BU:4:LYS:HE2	50:BU:5:VAL:O	1.78	0.83
50:BU:19:VAL:HG21	50:BU:46:ASP:HB2	1.58	0.83
50:BU:31:LEU:O	50:BU:32:TYR:HD2	1.62	0.83
55:CA:21:LEU:HD11	55:CA:98:VAL:CG2	2.07	0.83
55:CA:62:ALA:HB3	55:CA:64:ILE:HG13	1.60	0.83
55:CA:238:THR:O	55:CA:288:VAL:HA	1.77	0.83
55:CA:520:GLU:O	55:CA:592:LEU:HB3	1.78	0.83
55:CA:604:PRO:HB2	55:CA:605:LYS:CB	2.04	0.83
1:AA:221:A:N6	1:AA:265:A:H62	1.74	0.83
1:AA:239:U:O2'	1:AA:240:G:H5'	1.79	0.83
1:AA:775:G:C2'	1:AA:794:G:N7	2.41	0.83
1:AA:1006:C:O2	11:AK:106:MET:HG2	1.78	0.83
1:AA:1064:C:C4	1:AA:1065:U:N3	2.46	0.83
1:AA:1113:U:H2'	1:AA:1114:G:C8	2.12	0.83
1:AA:1180:C:H2'	1:AA:1181:C:C6	2.12	0.83
1:AA:1183:G:H1'	1:AA:1184:G:C8	2.13	0.83
1:AA:1453:A:N6	15:AO:63:ARG:HH21	1.77	0.83
1:AA:1941:C:H2'	1:AA:1942:C:O5'	1.77	0.83
1:AA:2001:A:H2'	1:AA:2002:G:H8	1.42	0.83
1:AA:2132:U:H3'	1:AA:2133:G:H5''	1.58	0.83
1:AA:2232:U:O2'	1:AA:2233:U:H5'	1.78	0.83
1:AA:2434:A:O2'	1:AA:2435:A:H5''	1.78	0.83
2:AB:40:U:H1'	2:AB:45:A:H62	1.43	0.83
4:AD:140:THR:O	4:AD:165:ILE:HD13	1.77	0.83
5:AE:54:GLN:CD	5:AE:56:PRO:HD2	2.03	0.83
5:AE:154:LYS:NZ	5:AE:156:MET:HB2	1.94	0.83
7:AG:55:LYS:HE3	7:AG:152:LEU:HD21	1.59	0.83
7:AG:118:ARG:HG3	7:AG:119:GLY:H	1.43	0.83
11:AK:70:LYS:NZ	11:AK:86:PRO:HB3	1.93	0.83
12:AL:18:LYS:HE2	12:AL:44:LYS:HD3	1.60	0.83
13:AM:95:VAL:C	13:AM:97:PRO:HD2	2.03	0.83
18:AR:94:ASN:ND2	19:AS:6:LYS:HE3	1.92	0.83
19:AS:43:GLU:N	19:AS:44:LYS:HZ1	1.76	0.83
21:AU:8:ILE:HD11	21:AU:42:ALA:HB2	1.59	0.83
22:AV:81:LYS:HG2	22:AV:96:ILE:HG23	1.60	0.83
22:AV:86:ARG:HG2	22:AV:91:GLU:HB3	1.59	0.83
23:AW:73:GLN:O	23:AW:87:ASP:HB2	1.77	0.83
26:AZ:37:LEU:HD21	26:AZ:39:ASP:HA	1.60	0.83
34:BA:1231:G:OP1	42:BM:127:LYS:HG2	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1269:A:C4'	34:BA:1312:G:H21	1.89	0.83
34:BA:1348:U:H4'	42:BM:120:ARG:HH11	1.43	0.83
34:BA:1415:G:O6	34:BA:1486:G:O6	1.95	0.83
35:BF:102:LEU:H	35:BF:102:LEU:HD12	1.43	0.83
36:BG:33:LEU:O	36:BG:36:ASP:HB3	1.77	0.83
38:BI:118:ILE:C	38:BI:119:LEU:HD23	2.03	0.83
41:BL:12:ARG:HD3	41:BL:26:VAL:HG22	1.58	0.83
43:BN:30:SER:HB3	43:BN:80:LYS:HG3	1.59	0.83
43:BN:34:VAL:HA	43:BN:74:ILE:HG12	1.59	0.83
46:BQ:25:ILE:CD1	46:BQ:66:LEU:HD21	2.08	0.83
49:BT:20:VAL:HA	49:BT:36:ILE:CG1	2.08	0.83
49:BT:21:VAL:HG13	49:BT:36:ILE:CD1	2.07	0.83
52:BW:9:VAL:C	52:BW:41:VAL:HG21	1.99	0.83
55:CA:75:THR:CG2	55:CA:85:VAL:HG21	2.07	0.83
1:AA:6:A:H4'	11:AK:132:ALA:O	1.78	0.83
1:AA:281:G:N2	1:AA:282:A:N7	2.25	0.83
1:AA:365:C:H2'	1:AA:366:C:H6	1.41	0.83
1:AA:576:U:H2'	1:AA:577:G:C8	2.13	0.83
1:AA:784:A:OP1	1:AA:2588:G:H5''	1.78	0.83
1:AA:1196:C:H2'	1:AA:1197:G:C8	2.13	0.83
1:AA:1423:G:H2'	1:AA:1424:G:C8	2.14	0.83
1:AA:2246:G:C2	1:AA:2247:A:C5	2.67	0.83
1:AA:2584:U:H2'	1:AA:2585:U:C6	2.13	0.83
4:AD:21:PHE:O	4:AD:205:VAL:HG22	1.79	0.83
5:AE:49:LEU:HD13	5:AE:76:ARG:CG	2.09	0.83
7:AG:114:ILE:HD12	7:AG:115:ARG:H	1.42	0.83
7:AG:139:LEU:HB3	7:AG:142:PRO:HB3	1.60	0.83
8:AH:136:ILE:HG23	8:AH:137:ASP:H	1.42	0.83
8:AH:175:LYS:HG3	8:AH:176:ALA:H	1.42	0.83
9:AI:52:PHE:C	9:AI:86:PRO:N	2.35	0.83
14:AN:42:ILE:HG12	14:AN:46:GLN:NE2	1.93	0.83
16:AP:11:LYS:HA	16:AP:14:VAL:HG21	1.60	0.83
16:AP:78:LEU:C	16:AP:78:LEU:HD22	2.03	0.83
21:AU:21:PHE:HE1	21:AU:27:THR:H	1.19	0.83
22:AV:50:ARG:HG3	22:AV:54:LYS:HB2	1.60	0.83
24:AX:54:GLY:O	24:AX:56:ASP:N	2.10	0.83
31:Ae:54:GLU:N	31:Ae:56:GLU:OE1	2.11	0.83
34:BA:179:A:H3'	34:BA:180:U:C5	2.13	0.83
34:BA:186(A):C:H1'	53:BX:104:LEU:HD23	1.59	0.83
34:BA:570:G:N1	34:BA:866:C:N4	2.26	0.83
34:BA:610:G:O2'	34:BA:611:A:H5'	1.77	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:817:C:O2'	34:BA:818:G:C5'	2.25	0.83
40:BK:69:VAL:HG21	40:BK:104:LEU:CD1	2.09	0.83
41:BL:40:ALA:CA	41:BL:45:ILE:HG23	2.08	0.83
43:BN:27:ALA:HB2	43:BN:85:LEU:CG	2.08	0.83
50:BU:76:LEU:HD11	50:BU:79:SER:OG	1.77	0.83
55:CA:14:VAL:H	55:CA:108:GLN:CB	1.89	0.83
55:CA:156:GLU:HA	55:CA:158:LEU:H	1.40	0.83
55:CA:496:ALA:HB3	55:CA:513:GLY:O	1.78	0.83
1:AA:189:G:H2'	1:AA:205:G:H22	1.42	0.83
1:AA:303:U:H2'	1:AA:304:G:O4'	1.78	0.83
1:AA:672:C:O5'	13:AM:38:GLN:NE2	2.10	0.83
1:AA:824:A:H5''	1:AA:825:C:OP2	1.78	0.83
1:AA:878:A:C4	1:AA:898:C:N4	2.46	0.83
1:AA:904:C:O2'	1:AA:905:U:H5'	1.77	0.83
1:AA:1716:U:H2'	1:AA:1716:U:O2	1.77	0.83
1:AA:1912:A:H1'	34:BA:1495:U:O4'	1.78	0.83
1:AA:2862:G:H2'	1:AA:2863:C:C6	2.12	0.83
4:AD:106:ILE:HD12	4:AD:192:THR:CG2	2.08	0.83
4:AD:117:VAL:HG22	4:AD:126:GLN:HE21	1.40	0.83
5:AE:111:ARG:H	5:AE:161:GLY:HA3	1.43	0.83
6:AF:82:ILE:HD13	6:AF:82:ILE:N	1.93	0.83
12:AL:37:ASP:H	12:AL:61:VAL:HB	1.41	0.83
14:AN:8:LYS:NZ	14:AN:93:TYR:HD2	1.77	0.83
16:AP:33:LYS:HE2	16:AP:54:LEU:HD21	1.60	0.83
20:AT:88:ARG:NE	20:AT:88:ARG:HA	1.92	0.83
20:AT:90:ARG:NH1	20:AT:90:ARG:H	1.76	0.83
21:AU:60:ARG:HD3	21:AU:62:LYS:NZ	1.93	0.83
26:AZ:3:ARG:HH12	26:AZ:59:VAL:CB	1.91	0.83
27:Aa:5:ILE:HD13	27:Aa:60:GLN:NE2	1.93	0.83
29:Ac:20:ASN:ND2	29:Ac:43:CYS:N	2.25	0.83
32:Af:11:CYS:HB3	32:Af:32:HIS:CE1	2.13	0.83
34:BA:279:A:C5'	34:BA:280:C:H3'	2.08	0.83
34:BA:474:G:H5'	49:BT:81:ARG:HG3	1.60	0.83
34:BA:872:A:C2'	34:BA:873:A:H5''	2.08	0.83
34:BA:1085:U:H5'	34:BA:1094:G:N2	1.93	0.83
35:BF:78:GLN:HE22	35:BF:96:ARG:HH12	1.25	0.83
39:BJ:89:MET:HB2	51:BV:76:LEU:HD11	1.60	0.83
45:BP:92:ASP:C	45:BP:93:LEU:HD23	2.04	0.83
46:BQ:73:GLU:O	46:BQ:77:ASN:CG	2.20	0.83
53:BX:51:GLU:HA	53:BX:54:LYS:HD2	1.61	0.83
53:BX:75:ASN:O	53:BX:78:ALA:HB3	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:396:LYS:HB2	55:CA:474:ASP:O	1.77	0.83
55:CA:403:VAL:O	55:CA:465:LEU:CB	2.26	0.83
55:CA:407:VAL:C	55:CA:436:ARG:HG2	2.03	0.83
1:AA:31:C:O2'	1:AA:32:C:H5'	1.78	0.83
1:AA:220:G:H4'	1:AA:234:C:C4'	2.09	0.83
1:AA:422:A:H2'	1:AA:422:A:N3	1.92	0.83
1:AA:1041:C:O2	1:AA:1115:G:C6	2.32	0.83
1:AA:1062:G:C8	1:AA:1063:G:N7	2.47	0.83
1:AA:1299:G:N2	1:AA:1640:C:H5'	1.94	0.83
1:AA:2533:A:C5'	1:AA:2664:G:O2'	2.26	0.83
1:AA:2572:A:C4'	1:AA:2573:C:H5''	2.07	0.83
1:AA:2875:C:H4'	17:AQ:4:GLY:H	1.44	0.83
5:AE:201:THR:C	5:AE:202:LYS:HD3	2.04	0.83
6:AF:157:VAL:O	6:AF:194:MET:HB2	1.78	0.83
7:AG:50:ALA:N	7:AG:70:VAL:HG13	1.93	0.83
7:AG:52:ILE:HG12	7:AG:148:MET:SD	2.19	0.83
8:AH:29:PRO:HD3	8:AH:79:VAL:O	1.78	0.83
8:AH:66:GLY:O	8:AH:69:ARG:HG2	1.79	0.83
8:AH:125:VAL:HA	8:AH:131:VAL:HG22	1.59	0.83
11:AK:104:LYS:HA	11:AK:117:PHE:CZ	2.13	0.83
15:AO:51:LEU:HD21	15:AO:70:LEU:HD21	1.59	0.83
16:AP:37:ALA:O	16:AP:51:ALA:CB	2.25	0.83
19:AS:41:GLY:CA	19:AS:51:VAL:HG22	2.09	0.83
19:AS:88:ARG:O	19:AS:90:PRO:HD3	1.79	0.83
20:AT:6:ILE:CG1	20:AT:104:THR:HA	2.08	0.83
25:AY:12:SER:HB3	25:AY:13:PRO:CD	2.09	0.83
34:BA:37:U:C6	34:BA:37:U:C3'	2.59	0.83
34:BA:42:G:H2'	34:BA:43:C:C6	2.14	0.83
34:BA:668:G:H4'	48:BS:48:LYS:O	1.77	0.83
34:BA:1100:C:H2'	35:BF:98:LEU:HD11	1.59	0.83
34:BA:1108:G:O2'	34:BA:1109:C:H5'	1.78	0.83
34:BA:1220:G:N3	52:BW:55:LYS:HA	1.92	0.83
35:BF:88:ALA:CB	35:BF:219:VAL:HG22	2.05	0.83
36:BG:3:ASN:ND2	36:BG:4:LYS:H	1.77	0.83
38:BI:74:GLY:C	38:BI:115:VAL:HG12	2.04	0.83
38:BI:115:VAL:HG21	38:BI:118:ILE:HD12	1.61	0.83
38:BI:151:LEU:HD21	41:BL:67:PRO:HG3	1.59	0.83
39:BJ:3:ARG:HG3	39:BJ:65:VAL:O	1.78	0.83
52:BW:11:VAL:O	52:BW:15:LEU:HG	1.77	0.83
55:CA:248:ASN:HD21	55:CA:273:ILE:HG12	0.67	0.83
55:CA:485:ASN:ND2	55:CA:526:ILE:HG21	1.92	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:411:G:N2	1:AA:2408:U:N3	2.24	0.83
1:AA:501:A:H8	1:AA:501:A:O5'	1.59	0.83
1:AA:640:C:H2'	1:AA:641:C:H5'	1.59	0.83
1:AA:811:U:C4	13:AM:22:GLY:HA3	2.13	0.83
1:AA:1006:C:O2'	11:AK:106:MET:HB3	1.78	0.83
1:AA:1170:G:H2'	1:AA:1170:G:N3	1.94	0.83
1:AA:1324:G:C3'	1:AA:1325:G:H4'	2.07	0.83
1:AA:1530:G:H22	1:AA:1541:U:H2'	1.43	0.83
1:AA:1692:U:H1'	1:AA:1696:G:N2	1.93	0.83
1:AA:2399:G:N2	1:AA:2400:G:H1'	1.93	0.83
2:AB:76:G:H4'	23:AW:85:HIS:HB2	1.58	0.83
3:AC:29:VAL:HA	3:AC:32:LEU:HD12	1.61	0.83
3:AC:130:ILE:HD12	3:AC:130:ILE:N	1.94	0.83
4:AD:9:TYR:HH	4:AD:91:ARG:HH21	1.26	0.83
4:AD:51:VAL:HB	4:AD:52:ARG:NE	1.93	0.83
8:AH:7:LEU:HB2	8:AH:52:VAL:HG13	1.61	0.83
10:AJ:44:ALA:CB	10:AJ:66:THR:HG22	2.09	0.83
12:AL:2:ILE:HG21	12:AL:32:TYR:HB3	1.58	0.83
15:AO:100:LEU:HB2	15:AO:112:ALA:HA	1.61	0.83
18:AR:19:LYS:HB2	18:AR:19:LYS:HZ2	1.44	0.83
20:AT:33:ARG:HH22	20:AT:48:ALA:HB2	1.43	0.83
20:AT:41:LYS:HB3	20:AT:41:LYS:NZ	1.94	0.83
29:Ac:20:ASN:ND2	29:Ac:42:TRP:HD1	1.75	0.83
30:Ad:21:ARG:HB2	30:Ad:21:ARG:NH1	1.94	0.83
30:Ad:21:ARG:CG	30:Ad:31:LEU:HD21	2.08	0.83
34:BA:296:U:H2'	34:BA:297:G:C8	2.13	0.83
34:BA:958:A:H1'	52:BW:55:LYS:HZ2	1.05	0.83
34:BA:1005:A:H3'	34:BA:1006:C:C6	2.14	0.83
40:BK:111:ARG:HD2	40:BK:123:GLU:HB2	1.60	0.83
41:BL:75:ARG:CZ	41:BL:75:ARG:HB2	2.07	0.83
44:BO:95:ILE:HA	44:BO:98:LEU:CD1	2.08	0.83
46:BQ:15:VAL:HG22	46:BQ:39:ILE:HD13	0.92	0.83
48:BS:67:LEU:O	48:BS:70:LEU:HB3	1.79	0.83
55:CA:6:ARG:CG	55:CA:68:TYR:O	2.26	0.83
1:AA:190:A:H2'	1:AA:191:A:C8	2.14	0.83
1:AA:457:A:H1'	1:AA:459:U:N3	1.94	0.83
1:AA:727:A:H2'	1:AA:727:A:N3	1.91	0.83
1:AA:1971:A:H3'	1:AA:1971:A:H8	1.41	0.83
1:AA:2037:G:H2'	1:AA:2038:G:C8	2.13	0.83
1:AA:2675:A:O2'	1:AA:2676:C:H5'	1.78	0.83
1:AA:2715:C:H2'	1:AA:2716:U:C6	2.13	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2821:A:H5''	5:AE:110:GLY:HA3	1.58	0.83
5:AE:77:ILE:HG12	5:AE:78:LEU:N	1.94	0.83
5:AE:91:VAL:CG2	5:AE:93:VAL:HG13	2.09	0.83
7:AG:92:VAL:HG11	7:AG:94:LEU:HD22	1.58	0.83
7:AG:169:ALA:O	7:AG:172:LEU:HB3	1.78	0.83
16:AP:11:LYS:HA	16:AP:14:VAL:CG2	2.08	0.83
19:AS:27:ALA:HB1	19:AS:33:VAL:CG1	2.08	0.83
27:Aa:7:PRO:HG2	27:Aa:60:GLN:OE1	1.79	0.83
34:BA:317:G:O2'	34:BA:318:G:H5'	1.78	0.83
34:BA:370:C:O2'	34:BA:371:G:H5'	1.78	0.83
34:BA:564:C:C5	50:BU:31:LEU:HD21	2.14	0.83
34:BA:754:C:H3'	34:BA:754:C:O2	1.78	0.83
34:BA:1075:C:H4'	34:BA:1101:A:N6	1.93	0.83
34:BA:1135:U:H4'	34:BA:1136:U:C5	2.13	0.83
34:BA:1327:C:C5'	54:BY:20:LYS:HD3	2.08	0.83
35:BF:102:LEU:CD2	35:BF:176:GLU:HB3	2.09	0.83
35:BF:168:THR:OG1	35:BF:192:SER:HA	1.79	0.83
35:BF:223:ILE:CG2	35:BF:229:VAL:HA	2.08	0.83
45:BP:28:LYS:HE3	45:BP:33:ARG:HH12	1.43	0.83
46:BQ:19:LEU:HD13	46:BQ:29:ARG:C	2.04	0.83
48:BS:35:ARG:NH1	48:BS:59:MET:HE2	1.94	0.83
55:CA:212:LEU:HD12	55:CA:221:ILE:O	1.79	0.83
55:CA:230:LYS:CB	55:CA:265:THR:C	2.45	0.83
55:CA:483:ARG:CZ	55:CA:573:ASP:HB2	2.09	0.83
1:AA:75:G:H4'	25:AY:50:ARG:NH2	1.94	0.83
1:AA:414:C:H1'	1:AA:1864:U:H1'	1.61	0.83
1:AA:578:A:C2'	1:AA:2018:G:H5''	2.07	0.83
1:AA:672:C:H2'	1:AA:673:C:C6	2.14	0.83
1:AA:783:A:H2'	1:AA:784:A:C4'	2.09	0.83
1:AA:883:G:C6	1:AA:884:C:N4	2.46	0.83
1:AA:1075:C:H1'	10:AJ:90:LYS:NZ	1.94	0.83
1:AA:1139:G:H2'	1:AA:1140:C:H5''	1.59	0.83
1:AA:1178:C:H2'	1:AA:1179:C:H6	1.37	0.83
1:AA:1315:C:H2'	1:AA:1316:U:C6	2.13	0.83
1:AA:1638:C:H5''	1:AA:2710:C:O2'	1.78	0.83
1:AA:1708:C:H2'	1:AA:1709:U:H5''	1.61	0.83
1:AA:1842:G:H2'	1:AA:1843:C:C6	2.12	0.83
1:AA:1943:U:H4'	1:AA:1944:U:O5'	1.78	0.83
1:AA:2333:A:H2'	1:AA:2333:A:N3	1.94	0.83
1:AA:2415:G:OP1	13:AM:61:ARG:HD2	1.78	0.83
1:AA:2629:A:C5'	1:AA:2895:U:C6	2.62	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2789:C:O2'	1:AA:2893:G:N2	2.11	0.83
4:AD:118:VAL:O	4:AD:129:ASN:HA	1.79	0.83
4:AD:169:GLU:HB3	4:AD:184:LYS:NZ	1.94	0.83
5:AE:91:VAL:CG1	5:AE:93:VAL:HG22	2.08	0.83
5:AE:91:VAL:HG11	5:AE:93:VAL:HG22	1.61	0.83
7:AG:53:LEU:HD23	7:AG:71:THR:N	1.92	0.83
7:AG:74:LYS:HG2	7:AG:75:LYS:HD2	1.58	0.83
8:AH:118:PRO:HG3	8:AH:144:VAL:HG21	1.61	0.83
12:AL:64:ARG:HG3	12:AL:64:ARG:NH1	1.89	0.83
12:AL:64:ARG:HH11	12:AL:64:ARG:CG	1.90	0.83
22:AV:95:LYS:HG3	22:AV:103:GLY:HA3	1.59	0.83
23:AW:129:SER:HB3	23:AW:133:ILE:HG22	1.59	0.83
25:AY:28:MET:HA	25:AY:31:ARG:HG3	1.61	0.83
28:Ab:10:LYS:HE3	28:Ab:15:ARG:CZ	2.08	0.83
34:BA:218:C:H5'	34:BA:466:C:N4	1.94	0.83
34:BA:713:G:N2	34:BA:777:A:H1'	1.93	0.83
34:BA:1454:G:C4	34:BA:1455:G:N7	2.47	0.83
35:BF:188:ALA:HB1	35:BF:192:SER:OG	1.78	0.83
36:BG:11:ARG:HB3	36:BG:15:THR:O	1.78	0.83
36:BG:73:PRO:HB3	36:BG:105:GLU:OE1	1.78	0.83
38:BI:91:LEU:HD23	38:BI:91:LEU:C	2.03	0.83
46:BQ:37:THR:CB	46:BQ:56:LEU:CG	2.30	0.83
1:AA:960:A:H5''	1:AA:961:C:OP1	1.79	0.83
1:AA:1085:A:O5'	1:AA:1106:G:P	2.31	0.83
1:AA:1834:U:H1'	1:AA:1969:A:C2	2.14	0.83
1:AA:1864:U:H4'	1:AA:2409:G:H22	1.44	0.83
1:AA:1944:U:H1'	1:AA:1955:U:C1'	2.09	0.83
1:AA:2091:U:C2'	1:AA:2092:U:H5'	2.09	0.83
1:AA:2305:A:H8	1:AA:2306:C:C5'	1.91	0.83
1:AA:2375:G:N2	1:AA:2378:A:N6	2.26	0.83
5:AE:2:LYS:HZ3	5:AE:83:ASP:HB2	1.44	0.83
5:AE:8:LYS:O	5:AE:192:ASN:HB2	1.79	0.83
5:AE:133:LYS:HZ1	5:AE:137:HIS:HB3	1.41	0.83
6:AF:18:ARG:HG2	6:AF:18:ARG:HH11	1.43	0.83
11:AK:15:LEU:HD21	11:AK:137:LYS:C	2.04	0.83
14:AN:112:GLU:HA	14:AN:115:MET:HG3	1.60	0.83
15:AO:104:ARG:HB2	15:AO:111:LEU:HD11	1.61	0.83
17:AQ:30:VAL:HG22	17:AQ:32:TYR:CZ	2.13	0.83
19:AS:6:LYS:HZ3	19:AS:10:LYS:HB3	1.43	0.83
20:AT:14:PRO:C	20:AT:16:LYS:HZ1	1.86	0.83
23:AW:113:ALA:HB1	23:AW:145:GLU:OE1	1.79	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AZ:13:ILE:HG23	26:AZ:14:GLY:N	1.93	0.83
27:Aa:46:GLN:NE2	27:Aa:69:LYS:HE2	1.93	0.83
27:Aa:47:GLN:HA	27:Aa:52:THR:HG21	1.60	0.83
28:Ab:55:ARG:O	28:Ab:56:LYS:HG2	1.79	0.83
29:Ac:11:LEU:HD22	31:Ae:35:GLN:OE1	1.78	0.83
30:Ad:41:ARG:HH11	30:Ad:41:ARG:CB	1.90	0.83
33:Ag:293:UNK:O	33:Ag:295:UNK:N	2.11	0.83
34:BA:657:G:H2'	34:BA:658:G:H5'	1.61	0.83
34:BA:684:A:C4'	44:BO:12:ARG:HH22	1.89	0.83
34:BA:761:G:H5'	50:BU:103:GLY:H	1.41	0.83
34:BA:915:A:H2'	34:BA:916:G:H5'	1.59	0.83
34:BA:1270:C:C2'	34:BA:1313:U:H4'	2.07	0.83
34:BA:1378:C:N3	34:BA:1379:G:H1'	1.91	0.83
34:BA:1459:C:H2'	34:BA:1460:A:H8	1.42	0.83
34:BA:1507:A:O2'	34:BA:1508:G:H5'	1.79	0.83
38:BI:94:ALA:CB	38:BI:98:THR:HG21	2.07	0.83
38:BI:109:ILE:HD13	38:BI:135:THR:CG2	2.09	0.83
40:BK:73:MET:HE1	40:BK:149:ARG:HH21	1.44	0.83
42:BM:6:GLY:HA3	42:BM:80:GLY:O	1.79	0.83
52:BW:9:VAL:HG21	52:BW:43:GLU:N	1.93	0.83
55:CA:54:ILE:HD11	55:CA:211:GLN:NE2	1.93	0.83
55:CA:305:PRO:HG3	55:CA:344:ALA:O	1.79	0.83
55:CA:398:GLU:HA	55:CA:472:TYR:CE1	2.14	0.83
55:CA:398:GLU:CD	55:CA:444:PRO:HB2	2.04	0.83
1:AA:397:G:OP2	27:Aa:41:PRO:HG3	1.77	0.82
1:AA:449:A:H2'	1:AA:450:G:O4'	1.77	0.82
1:AA:451:C:H5	1:AA:453:C:H5'	1.41	0.82
1:AA:864:G:H2'	1:AA:865:C:C1'	2.08	0.82
1:AA:873:G:C5	1:AA:874:G:C8	2.67	0.82
1:AA:1095:A:H5'	55:CA:416:MET:CE	2.05	0.82
1:AA:1299:G:H21	1:AA:1640:C:H6	1.27	0.82
1:AA:1300:U:H4'	1:AA:1301:A:O5'	1.79	0.82
1:AA:1460:A:H5'	1:AA:1461:G:OP2	1.79	0.82
1:AA:1464:C:H5'	1:AA:1528:A:O2'	1.78	0.82
1:AA:1541:U:H2'	1:AA:1541:U:O2	1.77	0.82
1:AA:1617:C:H2'	1:AA:1617:C:O2	1.79	0.82
1:AA:2458:G:N7	1:AA:2490:G:C6	2.47	0.82
1:AA:2629:A:C4'	1:AA:2895:U:C6	2.62	0.82
1:AA:2670:A:C2	1:AA:2671:A:C4	2.67	0.82
1:AA:2781:A:H2'	1:AA:2782:G:O2'	1.78	0.82
5:AE:11:MET:O	5:AE:21:VAL:HG23	1.79	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:118:LYS:HE2	5:AE:118:LYS:CA	2.08	0.82
5:AE:179:GLU:HB2	5:AE:181:LEU:HD11	1.61	0.82
10:AJ:75:SER:HA	10:AJ:130:SER:HB3	1.60	0.82
11:AK:10:GLU:OE2	11:AK:39:ARG:HD2	1.79	0.82
13:AM:101:VAL:HG23	13:AM:112:LEU:HD22	1.61	0.82
17:AQ:54:ARG:HD3	17:AQ:55:ASN:ND2	1.94	0.82
19:AS:5:VAL:HG22	19:AS:39:LEU:HA	1.61	0.82
20:AT:74:ALA:HB1	20:AT:105:VAL:HG23	1.58	0.82
28:Ab:15:ARG:HG3	28:Ab:16:ARG:H	1.44	0.82
28:Ab:35:GLU:HB3	28:Ab:49:CYS:HB3	1.61	0.82
29:Ac:52:VAL:HG12	29:Ac:53:LYS:N	1.93	0.82
34:BA:944:G:C3'	34:BA:945:G:H5''	2.08	0.82
34:BA:1310:G:C6	34:BA:1327:C:N3	2.29	0.82
37:BH:132:ARG:HG2	37:BH:132:ARG:NH1	1.92	0.82
40:BK:155:ARG:HA	40:BK:155:ARG:NH1	1.93	0.82
41:BL:103:VAL:HB	41:BL:108:GLY:HA3	1.58	0.82
43:BN:72:VAL:O	43:BN:73:ASP:HB2	1.78	0.82
45:BP:93:LEU:CD1	45:BP:96:VAL:HG21	2.08	0.82
46:BQ:14:ARG:NH2	46:BQ:42:ALA:HA	1.93	0.82
50:BU:29:HIS:ND1	50:BU:31:LEU:N	2.26	0.82
55:CA:26:LEU:HD12	55:CA:29:SER:HB3	1.62	0.82
1:AA:270(P):C:H2'	1:AA:270(Q):C:C6	2.14	0.82
1:AA:607:U:H2'	1:AA:607:U:O2	1.78	0.82
1:AA:623:G:C8	13:AM:105:LEU:HD13	2.14	0.82
1:AA:718:A:H3'	1:AA:719:C:H6	1.42	0.82
1:AA:1045:A:H1'	1:AA:1047:G:C8	2.14	0.82
1:AA:1203:G:N3	1:AA:1203:G:C2'	2.42	0.82
1:AA:1206:G:H2'	1:AA:1207:C:C1'	2.09	0.82
1:AA:1559:G:N1	1:AA:1560:G:C4'	2.39	0.82
1:AA:1642:G:O2'	1:AA:1643:G:H5'	1.79	0.82
1:AA:2052:G:H2'	1:AA:2053:G:H8	1.41	0.82
1:AA:2808:U:C3'	1:AA:2809:A:H5''	2.08	0.82
4:AD:57:GLY:N	4:AD:217:ARG:HD2	1.94	0.82
7:AG:77:ILE:CA	7:AG:83:ARG:HE	1.91	0.82
8:AH:124:GLU:OE1	8:AH:133:VAL:HA	1.78	0.82
11:AK:33:LEU:HD13	11:AK:34:LEU:HG	1.60	0.82
11:AK:76:SER:C	11:AK:78:TYR:H	1.85	0.82
12:AL:67:LYS:HA	12:AL:67:LYS:HE2	1.61	0.82
12:AL:122:LEU:HG	17:AQ:71:GLY:C	2.03	0.82
14:AN:63:LYS:HD3	14:AN:64:ILE:N	1.94	0.82
15:AO:54:LEU:HA	15:AO:57:ARG:HG3	1.61	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:15:VAL:HG12	17:AQ:16:ARG:O	1.78	0.82
18:AR:15:LYS:HA	18:AR:18:LEU:CD2	2.09	0.82
18:AR:99:ALA:HA	18:AR:106:PHE:CG	2.14	0.82
18:AR:112:ARG:HH22	19:AS:49:THR:HG22	1.44	0.82
20:AT:44:ALA:O	20:AT:47:VAL:HG23	1.79	0.82
25:AY:51:GLN:HA	25:AY:54:ARG:NE	1.94	0.82
29:Ac:15:GLU:HA	29:Ac:21:TYR:HA	1.59	0.82
34:BA:194:C:H5''	53:BX:65:LYS:HZ3	1.43	0.82
34:BA:228:A:H2'	34:BA:229:U:H5'	1.61	0.82
34:BA:764:C:C2'	34:BA:765:G:C8	2.61	0.82
34:BA:1125:U:H5'	43:BN:38:ILE:HD13	1.58	0.82
34:BA:1202:G:C4	47:BR:42:ILE:HD13	2.13	0.82
35:BF:16:HIS:C	35:BF:204:ASN:HB2	2.02	0.82
35:BF:16:HIS:O	35:BF:204:ASN:HB2	1.79	0.82
35:BF:74:LYS:HE2	35:BF:76:GLN:HB2	1.59	0.82
35:BF:75:LYS:HA	35:BF:75:LYS:HZ3	1.44	0.82
35:BF:180:LEU:O	35:BF:181:PHE:HB2	1.78	0.82
36:BG:48:TYR:HA	36:BG:52:LEU:HD22	1.59	0.82
37:BH:57:ARG:HG3	37:BH:202:LEU:O	1.77	0.82
39:BJ:48:LEU:HD12	39:BJ:50:TYR:O	1.79	0.82
44:BO:40:ILE:HD13	44:BO:40:ILE:N	1.93	0.82
45:BP:32:PHE:HB2	45:BP:84:LEU:HD11	1.61	0.82
49:BT:72:ARG:HH21	49:BT:73:LEU:HD23	1.44	0.82
55:CA:6:ARG:CA	55:CA:69:ARG:O	2.17	0.82
55:CA:40:GLU:N	55:CA:41:ARG:O	2.11	0.82
55:CA:447:GLY:HA3	55:CA:480:VAL:HG21	1.60	0.82
1:AA:2:G:C4	1:AA:2902:C:N3	2.36	0.82
1:AA:111:A:H2'	1:AA:112:U:C6	2.13	0.82
1:AA:270(A):A:H5'	1:AA:270(B):A:OP2	1.78	0.82
1:AA:783:A:H3'	4:AD:227:ASN:ND2	1.94	0.82
1:AA:901:A:N6	1:AA:902:C:N3	2.26	0.82
1:AA:1487:G:O2'	1:AA:1488:G:H5'	1.79	0.82
1:AA:1523:U:C2	1:AA:1524:G:C8	2.67	0.82
1:AA:2012:G:OP1	20:AT:98:LYS:HG3	1.80	0.82
1:AA:2234:G:O2'	1:AA:2235:G:H5'	1.78	0.82
1:AA:2459:A:C5	1:AA:2493:U:O4	2.33	0.82
1:AA:2630:G:N3	1:AA:2894:G:C8	2.47	0.82
1:AA:2807:G:C5	1:AA:2808:U:C5	2.67	0.82
3:AC:97:GLU:CA	3:AC:100:ILE:HD12	2.09	0.82
5:AE:124:GLY:HA3	5:AE:136:ARG:CB	2.10	0.82
6:AF:38:ARG:NH2	13:AM:10:PRO:HA	1.93	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:52:LYS:O	6:AF:53:THR:HG23	1.78	0.82
8:AH:43:VAL:CG2	8:AH:52:VAL:HA	2.02	0.82
8:AH:110:SER:C	8:AH:112:PRO:HD2	2.04	0.82
10:AJ:98:ARG:HH22	10:AJ:101:TRP:H	1.28	0.82
10:AJ:104:VAL:HG12	10:AJ:127:ILE:HD11	0.82	0.82
11:AK:68:GLU:N	11:AK:70:LYS:HZ1	1.77	0.82
12:AL:24:VAL:CG2	12:AL:26:LYS:HG2	2.10	0.82
13:AM:65:ARG:NH2	13:AM:68:GLN:NE2	2.28	0.82
13:AM:92:GLU:OE2	13:AM:126:VAL:HG13	1.79	0.82
16:AP:74:ALA:HB1	16:AP:108:GLY:HA3	1.61	0.82
18:AR:88:ILE:N	18:AR:88:ILE:HD13	1.94	0.82
19:AS:26:ASP:O	19:AS:29:PRO:HD2	1.79	0.82
21:AU:27:THR:CB	21:AU:80:ILE:HD12	2.09	0.82
22:AV:46:LYS:HZ2	22:AV:52:SER:HB2	1.42	0.82
22:AV:72:VAL:HG21	22:AV:96:ILE:HG12	1.60	0.82
33:Ag:289:UNK:O	33:Ag:343:UNK:C	2.27	0.82
34:BA:55:A:C2'	34:BA:56:U:H5'	2.09	0.82
34:BA:233:C:O2'	34:BA:234:C:H5'	1.78	0.82
34:BA:319:G:O2'	34:BA:320:C:H5'	1.79	0.82
34:BA:582:U:H5'	48:BS:64:ARG:HH21	1.43	0.82
34:BA:854:G:H5''	34:BA:871:U:H3	1.42	0.82
34:BA:1118:C:P	42:BM:103:THR:HG23	2.19	0.82
34:BA:1414:U:H2'	34:BA:1415:G:H8	1.44	0.82
35:BF:150:SER:CA	35:BF:153:ARG:HB2	2.09	0.82
46:BQ:19:LEU:O	46:BQ:25:ILE:HG21	1.78	0.82
48:BS:56:LEU:O	48:BS:60:VAL:HG23	1.77	0.82
55:CA:172:ALA:CA	55:CA:179:MET:HE3	2.09	0.82
1:AA:448:U:H2'	1:AA:448:U:O2	1.79	0.82
1:AA:705:A:H2'	1:AA:705:A:N3	1.91	0.82
1:AA:931:G:N2	26:AZ:24:LYS:HB3	1.93	0.82
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.15	0.82
1:AA:2305:A:O2'	7:AG:136:ARG:HA	1.77	0.82
1:AA:2384:G:OP2	1:AA:2384:G:H8	1.63	0.82
6:AF:128:ALA:HA	6:AF:142:TRP:CH2	2.14	0.82
7:AG:6:ALA:HA	7:AG:9:ARG:NH2	1.94	0.82
7:AG:55:LYS:HE2	7:AG:151:ALA:HB1	1.61	0.82
7:AG:87:PRO:O	7:AG:88:ILE:HG13	1.79	0.82
7:AG:92:VAL:HG13	7:AG:94:LEU:CD1	2.09	0.82
12:AL:43:VAL:HG11	12:AL:54:GLU:HA	1.61	0.82
13:AM:16:ARG:CD	13:AM:19:VAL:HG22	2.10	0.82
17:AQ:51:ARG:O	17:AQ:66:VAL:HA	1.80	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:6:LYS:HG2	19:AS:12:TYR:N	1.93	0.82
21:AU:43:VAL:CG1	21:AU:51:VAL:HG22	2.09	0.82
26:AZ:19:GLN:NE2	26:AZ:50:VAL:HA	1.94	0.82
33:Ag:7:UNK:CA	33:Ag:144:UNK:HA	2.08	0.82
34:BA:132:C:H5'	34:BA:262:A:C1'	2.10	0.82
34:BA:186(D):C:H2'	34:BA:186(E):C:H6	1.43	0.82
34:BA:232:G:H2'	34:BA:233:C:H6	1.45	0.82
34:BA:659:U:H2'	34:BA:660:G:H8	1.42	0.82
34:BA:762:C:H2'	34:BA:763:G:C8	2.14	0.82
34:BA:1327:C:OP1	54:BY:20:LYS:HB3	1.76	0.82
35:BF:165:VAL:HG23	35:BF:166:ASP:H	1.43	0.82
38:BI:136:MET:O	38:BI:139:LEU:HB2	1.79	0.82
41:BL:33:GLU:HA	41:BL:36:LEU:HD21	1.61	0.82
41:BL:41:ARG:HB3	41:BL:41:ARG:NH1	1.93	0.82
46:BQ:15:VAL:CA	46:BQ:34:LEU:CD2	2.48	0.82
46:BQ:91:ARG:CB	46:BQ:98:VAL:HA	2.08	0.82
49:BT:56:ALA:HB3	49:BT:79:VAL:HG11	1.61	0.82
55:CA:141:VAL:HG23	55:CA:164:TYR:HH	1.41	0.82
55:CA:206:GLN:O	55:CA:227:LYS:CG	2.28	0.82
55:CA:400:TYR:CZ	55:CA:444:PRO:HG3	2.14	0.82
55:CA:422:ARG:HH12	55:CA:480:VAL:HG22	1.42	0.82
55:CA:481:GLY:HA2	55:CA:482:GLN:CB	2.09	0.82
1:AA:386:G:H2'	1:AA:386:G:N3	1.95	0.82
1:AA:663:G:H4'	13:AM:18:ARG:HH21	1.45	0.82
1:AA:678:C:H2'	1:AA:679:C:H6	1.43	0.82
1:AA:752:A:N6	1:AA:1781:C:H1'	1.94	0.82
1:AA:1143:A:H2'	1:AA:1144:G:H8	1.42	0.82
1:AA:1359:A:N6	1:AA:1371:G:H21	1.76	0.82
1:AA:1375:C:H2'	1:AA:1376:C:C6	2.13	0.82
1:AA:1966:A:H1'	1:AA:2593:U:C5'	2.08	0.82
1:AA:2497:A:H2'	1:AA:2498:C:OP2	1.79	0.82
1:AA:2557:G:H2'	1:AA:2558:C:H6	1.43	0.82
1:AA:2767:C:C2	1:AA:2768:C:C5	2.68	0.82
10:AJ:103:GLN:O	10:AJ:106:GLU:HG3	1.78	0.82
13:AM:93:GLY:HA2	13:AM:112:LEU:HD11	1.61	0.82
15:AO:83:ILE:HD12	15:AO:86:ARG:HE	1.43	0.82
15:AO:88:ARG:HH11	15:AO:88:ARG:CB	1.88	0.82
19:AS:26:ASP:C	19:AS:29:PRO:HD2	2.03	0.82
23:AW:177:PRO:HG2	23:AW:178:GLU:H	1.44	0.82
24:AX:19:LYS:O	24:AX:20:ARG:HD2	1.79	0.82
25:AY:20:VAL:HG21	25:AY:56:LEU:HD11	1.61	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:200:GLU:O	37:BH:204:ILE:HD12	1.80	0.82
44:BO:95:ILE:HA	44:BO:98:LEU:CG	2.09	0.82
46:BQ:14:ARG:HB3	46:BQ:41:PRO:C	1.79	0.82
46:BQ:20:THR:CA	46:BQ:26:GLY:H	1.85	0.82
50:BU:25:ARG:NH2	50:BU:40:LYS:HD3	1.92	0.82
55:CA:374:ARG:NE	55:CA:585:ILE:CD1	2.42	0.82
55:CA:541:LYS:H	55:CA:542:LYS:HA	1.45	0.82
1:AA:221:A:N6	1:AA:265:A:N6	2.27	0.82
1:AA:295:G:O2'	1:AA:296:C:H5'	1.78	0.82
1:AA:477:A:H2'	1:AA:478:A:C8	2.14	0.82
1:AA:572:A:H2'	1:AA:573:G:H1'	1.62	0.82
1:AA:746:A:O2'	1:AA:747:U:P	2.37	0.82
1:AA:1394:U:H4'	1:AA:1603:A:H4'	1.60	0.82
1:AA:1438:U:C2'	1:AA:1439:A:H5'	2.08	0.82
1:AA:1930:G:N2	1:AA:1969:A:OP2	2.13	0.82
1:AA:1983:C:O2'	1:AA:1984:G:H5'	1.79	0.82
1:AA:2063:C:C3'	1:AA:2064:C:H5''	2.10	0.82
1:AA:2525:G:N2	1:AA:2539:C:C4	2.46	0.82
1:AA:2816:C:O2'	1:AA:2817:G:H5'	1.79	0.82
6:AF:103:LYS:CA	6:AF:106:ARG:HG2	2.08	0.82
11:AK:23:LEU:CD1	11:AK:63:THR:HG23	2.09	0.82
12:AL:116:SER:CB	34:BA:343:U:N3	2.39	0.82
13:AM:74:GLU:HA	13:AM:107:LYS:HD3	1.62	0.82
17:AQ:48:ILE:HD13	17:AQ:50:ILE:CD1	2.09	0.82
23:AW:42:VAL:HG12	23:AW:46:LYS:NZ	1.93	0.82
27:Aa:47:GLN:HA	27:Aa:52:THR:CG2	2.10	0.82
34:BA:263:A:H2'	34:BA:264:U:C5'	2.07	0.82
34:BA:523:A:H61	45:BP:53:ARG:HH22	1.23	0.82
34:BA:551:U:H5'	45:BP:119:LYS:HZ3	1.39	0.82
34:BA:1014:A:H1'	52:BW:34:TRP:HH2	1.01	0.82
34:BA:1323:G:H2'	34:BA:1324:A:C8	2.14	0.82
34:BA:1486:G:H2'	34:BA:1487:G:C4'	2.09	0.82
35:BF:224:GLN:HG2	35:BF:229:VAL:HG21	1.61	0.82
41:BL:18:ARG:NH1	41:BL:18:ARG:CA	2.43	0.82
41:BL:103:VAL:HB	41:BL:108:GLY:CA	2.08	0.82
50:BU:97:SER:O	50:BU:98:LEU:HD22	1.80	0.82
51:BV:55:ARG:HB3	51:BV:55:ARG:HH11	1.44	0.82
55:CA:9:ALA:CB	55:CA:73:VAL:HG22	1.67	0.82
55:CA:64:ILE:HG23	55:CA:188:GLN:HE21	1.39	0.82
55:CA:316:SER:HB2	55:CA:317:PRO:CD	2.09	0.82
55:CA:502:PHE:CE1	55:CA:555:VAL:CG2	2.62	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:336:C:C2'	1:AA:337:C:H5'	2.09	0.82
1:AA:456:C:H5	21:AU:68:ARG:NH1	1.76	0.82
1:AA:715:G:H22	48:BS:53:HIS:CB	1.92	0.82
1:AA:972:G:H5''	1:AA:973:A:O3'	1.80	0.82
1:AA:1062:G:H1'	1:AA:1063:G:C5'	2.10	0.82
1:AA:1319:G:O2'	1:AA:1320:C:H5'	1.80	0.82
1:AA:1531:C:H2'	1:AA:1532:C:C5	2.15	0.82
1:AA:1664:A:H3'	1:AA:1664:A:H8	1.44	0.82
1:AA:1791:A:O4'	4:AD:209:ALA:HB2	1.79	0.82
1:AA:1802:A:H3'	1:AA:1803:A:C8	2.14	0.82
1:AA:1809:A:N6	27:Aa:3:GLU:HG3	1.95	0.82
1:AA:2409:G:N2	1:AA:2410:G:H1'	1.95	0.82
2:AB:9:G:H4'	16:AP:43:GLU:OE2	1.80	0.82
2:AB:102:G:N3	23:AW:73:GLN:NE2	2.27	0.82
3:AC:10:LEU:HD11	3:AC:32:LEU:HB3	1.62	0.82
4:AD:172:TYR:O	4:AD:184:LYS:HE2	1.80	0.82
5:AE:44:TYR:HB3	5:AE:82:ARG:HH21	1.41	0.82
6:AF:9:ILE:HG21	6:AF:124:LEU:HB3	1.60	0.82
8:AH:97:ARG:HB3	8:AH:104:GLU:HG3	1.60	0.82
10:AJ:72:PRO:CG	10:AJ:77:LEU:CD2	0.83	0.82
11:AK:4:TYR:OH	18:AR:101:ARG:HB3	1.80	0.82
11:AK:109:LYS:NZ	11:AK:110:GLY:N	2.27	0.82
21:AU:12:VAL:HG23	21:AU:28:PHE:HA	1.61	0.82
22:AV:41:GLY:HA3	22:AV:61:ILE:O	1.79	0.82
34:BA:858:G:H1	34:BA:869:G:H3'	1.44	0.82
34:BA:1271:G:OP1	34:BA:1314:C:C5'	2.26	0.82
34:BA:1404:C:O2'	34:BA:1499:A:C2	2.20	0.82
34:BA:1455:G:OP1	53:BX:31:SER:C	2.22	0.82
42:BM:47:LEU:HD12	42:BM:51:ARG:NH2	1.93	0.82
43:BN:8:LEU:HD13	43:BN:16:LEU:HD13	1.61	0.82
52:BW:6:LYS:HE3	52:BW:10:PHE:CB	2.07	0.82
53:BX:62:LEU:HA	53:BX:65:LYS:CG	2.10	0.82
55:CA:102:PHE:HE2	55:CA:133:PRO:HD2	1.42	0.82
55:CA:382:VAL:CB	55:CA:569:LEU:HD23	2.01	0.82
55:CA:397:GLN:CB	55:CA:472:TYR:HB3	2.00	0.82
1:AA:247:G:N2	31:Ae:8:LYS:HD2	1.95	0.82
1:AA:535:C:H5'	18:AR:49:HIS:CB	2.10	0.82
1:AA:846:C:O2'	1:AA:847:U:OP2	1.98	0.82
1:AA:1264:G:O6	1:AA:1265:A:N7	2.13	0.82
1:AA:1703:G:HO2'	34:BA:1429:C:C4'	1.86	0.82
1:AA:1783:A:H5''	1:AA:1784:A:OP1	1.78	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1906:G:C6	56:AA:3001:NMY:H7	2.15	0.82
1:AA:2185:C:H2'	1:AA:2186:G:H8	1.43	0.82
1:AA:2277:G:C3'	1:AA:2278:A:H5''	2.09	0.82
1:AA:2297:C:H2'	1:AA:2298:A:C8	2.15	0.82
1:AA:2402:C:H5''	1:AA:2403:C:OP1	1.79	0.82
1:AA:2415:G:H5''	13:AM:61:ARG:HD2	1.62	0.82
1:AA:2459:A:H2	1:AA:2492:U:O4	1.62	0.82
1:AA:2607:G:C2'	1:AA:2608:G:H5'	2.08	0.82
5:AE:173:VAL:CG2	5:AE:174:ASP:N	2.42	0.82
11:AK:91:LEU:HD23	11:AK:98:VAL:HG21	1.61	0.82
18:AR:13:LYS:HA	18:AR:16:LYS:HZ2	1.44	0.82
21:AU:66:LEU:HG	21:AU:69:TYR:C	2.05	0.82
21:AU:84:ALA:HB3	21:AU:85:PRO:HD3	1.62	0.82
22:AV:98:VAL:O	22:AV:100:ALA:O	1.98	0.82
23:AW:24:LEU:HD23	23:AW:25:PRO:HD2	1.62	0.82
24:AX:32:ARG:NH1	24:AX:32:ARG:HB2	1.95	0.82
26:AZ:35:ARG:HH22	26:AZ:47:VAL:HG22	1.45	0.82
34:BA:128:G:H5''	50:BU:2:PRO:HA	1.61	0.82
34:BA:1155:G:N2	34:BA:1179:A:H61	1.77	0.82
34:BA:1308:U:H5'	46:BQ:110:ARG:HH11	1.41	0.82
34:BA:1486:G:C5	34:BA:1487:G:N7	2.21	0.82
44:BO:84:VAL:HG21	44:BO:110:ASP:HA	1.61	0.82
45:BP:106:ASP:HA	55:CA:329:ARG:HE	1.39	0.82
46:BQ:60:VAL:HG12	46:BQ:64:TRP:CD1	2.14	0.82
46:BQ:88:ARG:N	52:BW:73:GLU:OE1	2.13	0.82
48:BS:42:HIS:CG	48:BS:43:LEU:N	2.48	0.82
48:BS:60:VAL:HA	48:BS:63:ARG:HD3	1.62	0.82
55:CA:309:MET:CG	55:CA:358:VAL:HB	2.10	0.82
1:AA:715:G:N2	48:BS:53:HIS:CB	2.43	0.82
1:AA:1312:U:C3'	1:AA:1313:U:C6	2.63	0.82
1:AA:1342:A:H2'	1:AA:1345:C:H41	1.42	0.82
1:AA:1355:G:N2	1:AA:1377:G:H1'	1.95	0.82
1:AA:2074:U:O2'	1:AA:2598:A:H1'	1.80	0.82
4:AD:7:LYS:HE2	4:AD:25:THR:HB	1.59	0.82
4:AD:18:VAL:C	4:AD:20:ASP:H	1.86	0.82
5:AE:38:THR:OG1	5:AE:44:TYR:HB2	1.80	0.82
5:AE:136:ARG:O	5:AE:137:HIS:ND1	2.09	0.82
5:AE:196:VAL:HG12	5:AE:197:ILE:N	1.91	0.82
12:AL:77:ILE:HD13	17:AQ:65:LYS:HE2	1.61	0.82
13:AM:15:ARG:NH1	13:AM:16:ARG:HB2	1.94	0.82
22:AV:82:PRO:HG3	22:AV:97:ARG:H	1.43	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ab:47:PRO:C	28:Ab:58:LEU:HG	2.05	0.82
33:Ag:8:UNK:CB	33:Ag:147:UNK:CB	2.58	0.82
34:BA:270:A:H2'	34:BA:271:C:H6	1.45	0.82
34:BA:451:A:H1'	34:BA:452:A:C4	2.15	0.82
34:BA:1145:C:H1'	34:BA:1146:A:C8	2.15	0.82
34:BA:1164:G:C5	34:BA:1165:C:C4	2.68	0.82
34:BA:1406:U:H2'	34:BA:1406:U:O2	1.80	0.82
35:BF:181:PHE:CD1	41:BL:71:GLY:HA3	2.15	0.82
37:BH:166:LYS:HE2	37:BH:178:VAL:HG12	1.62	0.82
41:BL:123:GLU:CD	41:BL:124:ALA:N	2.38	0.82
46:BQ:22:ILE:C	46:BQ:25:ILE:HG13	2.05	0.82
46:BQ:25:ILE:HD11	46:BQ:66:LEU:HD21	1.62	0.82
49:BT:21:VAL:HG21	49:BT:59:TRP:HE1	1.43	0.82
50:BU:10:VAL:HG21	50:BU:55:ASP:HB2	1.61	0.82
55:CA:13:HIS:CD2	55:CA:106:MET:HB3	2.14	0.82
55:CA:17:GLY:CA	55:CA:20:THR:HG21	2.10	0.82
1:AA:34:C:H2'	1:AA:455:C:H41	1.40	0.82
1:AA:558:G:H5'	11:AK:112:LEU:CD1	2.09	0.82
1:AA:876:C:O2'	1:AA:877:U:H5'	1.80	0.82
1:AA:1131:G:OP1	11:AK:79:PRO:HD3	1.80	0.82
1:AA:1299:G:O6	1:AA:1639:U:H5''	1.80	0.82
1:AA:1503:U:H2'	1:AA:1504:C:C6	2.15	0.82
1:AA:1664:A:H2'	1:AA:1665:A:C8	2.15	0.82
1:AA:1670:C:H3'	1:AA:1671:U:C6	2.15	0.82
1:AA:2026:C:O2'	1:AA:2027:G:H5'	1.79	0.82
4:AD:133:LEU:HD11	4:AD:185:VAL:CG1	2.08	0.82
5:AE:5:LEU:HD13	5:AE:196:VAL:O	1.80	0.82
5:AE:51:PHE:CE1	5:AE:53:PRO:HD3	2.14	0.82
5:AE:92:THR:H	5:AE:95:ILE:HD13	1.43	0.82
5:AE:104:VAL:HG22	5:AE:198:VAL:CG1	2.10	0.82
6:AF:8:GLN:C	6:AF:9:ILE:HD12	2.04	0.82
9:AI:53:VAL:HA	9:AI:86:PRO:N	1.94	0.82
12:AL:97:ARG:HG3	12:AL:117:LEU:CD2	2.10	0.82
17:AQ:3:ARG:O	17:AQ:6:LEU:HD23	1.79	0.82
20:AT:76:VAL:HG22	20:AT:77:ASP:H	1.45	0.82
21:AU:55:ASN:N	21:AU:55:ASN:HD22	1.76	0.82
34:BA:1044:A:H2'	34:BA:1045:C:H5'	1.62	0.82
36:BG:120:VAL:O	36:BG:123:GLN:HB2	1.79	0.82
37:BH:155:LEU:HD23	37:BH:158:ILE:HD11	1.61	0.82
40:BK:109:ASN:O	40:BK:119:ARG:CZ	2.28	0.82
41:BL:36:LEU:HD12	41:BL:48:TYR:HB2	1.60	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:115:SER:C	41:BL:116:LYS:HD2	2.04	0.82
42:BM:52:ALA:O	42:BM:95:LYS:HD2	1.80	0.82
43:BN:96:ILE:O	43:BN:96:ILE:HG13	1.79	0.82
45:BP:12:ARG:HB3	45:BP:12:ARG:NH1	1.95	0.82
45:BP:77:LEU:HD11	45:BP:107:ALA:HB2	1.61	0.82
48:BS:31:LEU:HA	48:BS:34:LEU:CD2	2.09	0.82
49:BT:4:ILE:N	49:BT:4:ILE:HD13	1.92	0.82
49:BT:26:ARG:HD2	49:BT:31:LYS:N	1.94	0.82
52:BW:18:LYS:HE2	52:BW:22:LEU:HD12	1.61	0.82
53:BX:64:ASP:O	53:BX:67:ALA:N	2.12	0.82
55:CA:6:ARG:HB2	55:CA:68:TYR:O	1.79	0.82
55:CA:13:HIS:CG	55:CA:109:THR:CG2	2.55	0.82
55:CA:160:PHE:CE1	55:CA:162:ILE:HB	2.14	0.82
55:CA:220:VAL:O	55:CA:274:VAL:HG11	1.78	0.82
55:CA:400:TYR:HE1	55:CA:444:PRO:N	1.65	0.82
1:AA:141:A:C2	1:AA:1596:A:O2'	2.32	0.81
1:AA:242:G:H5''	31:Ae:4:MET:HE3	1.62	0.81
1:AA:697:C:H2'	1:AA:698:C:H5''	1.62	0.81
1:AA:1105:U:C6	1:AA:1107:G:O6	2.33	0.81
1:AA:1114:G:C2	1:AA:1115:G:H1'	2.15	0.81
1:AA:1266:G:N7	20:AT:16:LYS:HD2	1.93	0.81
1:AA:1430:C:H2'	1:AA:1431:U:C6	2.15	0.81
1:AA:1460:A:N1	1:AA:1732:A:N1	2.28	0.81
1:AA:1790:C:H2'	1:AA:1791:A:C8	2.15	0.81
1:AA:1943:U:C1'	1:AA:1945:G:H5''	2.09	0.81
1:AA:2537:U:H2'	1:AA:2538:C:C6	2.15	0.81
3:AC:89:ALA:HB1	3:AC:154:ARG:CA	2.10	0.81
4:AD:119:ALA:HB1	4:AD:130:ALA:O	1.79	0.81
4:AD:143:HIS:C	4:AD:145:VAL:H	1.86	0.81
7:AG:94:LEU:CB	7:AG:99:MET:HE3	2.10	0.81
10:AJ:53:VAL:HG13	10:AJ:71:THR:H	1.45	0.81
11:AK:11:PRO:HB2	11:AK:13:TRP:HZ3	1.43	0.81
13:AM:114:ILE:HG12	13:AM:130:PHE:HA	1.60	0.81
14:AN:69:PHE:HB3	14:AN:71:ASP:OD1	1.79	0.81
15:AO:36:THR:O	15:AO:111:LEU:HB3	1.80	0.81
15:AO:42:LYS:O	15:AO:45:ARG:HB3	1.80	0.81
15:AO:53:HIS:O	15:AO:56:LYS:HG3	1.80	0.81
23:AW:102:LEU:HD13	23:AW:137:ILE:O	1.80	0.81
23:AW:127:LYS:HB3	23:AW:162:GLU:O	1.79	0.81
28:Ab:55:ARG:HD3	28:Ab:55:ARG:H	1.45	0.81
34:BA:399:G:H2'	34:BA:400:C:C6	2.15	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:677:U:H2'	34:BA:678:U:C6	2.13	0.81
34:BA:913:A:O2'	34:BA:914:A:O4'	1.98	0.81
34:BA:1109:C:O2'	34:BA:1110:A:H5'	1.78	0.81
35:BF:82:ARG:HB2	35:BF:94:ASN:ND2	1.94	0.81
35:BF:150:SER:HA	35:BF:153:ARG:CB	2.09	0.81
35:BF:209:ARG:NH1	35:BF:213:LEU:HD12	1.94	0.81
35:BF:222:ILE:HB	35:BF:226:ARG:HH21	1.42	0.81
38:BI:31:LEU:HD12	38:BI:129:ILE:CG2	2.07	0.81
49:BT:14:ASN:HA	49:BT:42:ARG:CZ	2.10	0.81
55:CA:130:VAL:CG1	55:CA:164:TYR:HB3	2.08	0.81
55:CA:253:LYS:HE3	55:CA:269:GLU:CB	2.09	0.81
55:CA:604:PRO:CB	55:CA:605:LYS:HB3	2.03	0.81
1:AA:704:G:N2	1:AA:725:G:N2	2.27	0.81
1:AA:865:C:H42	1:AA:909:A:H62	1.28	0.81
1:AA:970:C:H2'	1:AA:971:C:C6	2.15	0.81
1:AA:970:C:H2'	1:AA:971:C:H6	1.45	0.81
1:AA:1037:G:C2	1:AA:1119:C:O2	2.33	0.81
1:AA:1079:C:OP1	10:AJ:137:GLU:OE1	1.97	0.81
1:AA:1123:C:H2'	1:AA:1124:C:H6	1.45	0.81
1:AA:2021:C:H2'	1:AA:2022:U:OP1	1.80	0.81
1:AA:2289:G:H5'	1:AA:2384:G:H1'	1.61	0.81
1:AA:2330:G:H1	1:AA:2385:C:N4	1.78	0.81
1:AA:2820:A:H5'	1:AA:2821:A:N7	1.95	0.81
4:AD:9:TYR:HH	4:AD:91:ARG:NH2	1.78	0.81
4:AD:157:ARG:HB3	4:AD:160:GLY:O	1.80	0.81
5:AE:4:ILE:HG13	5:AE:27:LEU:HD13	1.62	0.81
6:AF:7:TYR:O	6:AF:18:ARG:CG	2.27	0.81
6:AF:25:PRO:O	6:AF:28:ILE:HG22	1.78	0.81
12:AL:77:ILE:HD13	17:AQ:65:LYS:CE	2.09	0.81
14:AN:53:ALA:O	14:AN:56:ARG:HG3	1.79	0.81
16:AP:103:GLU:O	16:AP:106:ARG:HB3	1.79	0.81
17:AQ:32:TYR:N	17:AQ:32:TYR:CD1	2.48	0.81
21:AU:7:VAL:HG21	25:AY:31:ARG:NH1	1.94	0.81
27:Aa:59:PHE:HA	27:Aa:62:ARG:CD	2.10	0.81
33:Ag:7:UNK:CA	33:Ag:144:UNK:C	2.57	0.81
34:BA:29:G:H5'	34:BA:296:U:OP1	1.80	0.81
34:BA:129(A):G:N2	34:BA:191(A):G:C5	2.49	0.81
34:BA:327:A:H4'	34:BA:328:C:OP1	1.77	0.81
34:BA:423:G:H2'	34:BA:424:G:O4'	1.80	0.81
34:BA:1145:C:H1'	34:BA:1146:A:N7	1.95	0.81
34:BA:1269:A:N6	34:BA:1312:G:O3'	1.97	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:187:LEU:HD22	35:BF:188:ALA:N	1.95	0.81
36:BG:46:GLU:HB3	36:BG:47:LEU:HD22	1.62	0.81
37:BH:21:LEU:HD13	37:BH:67:ILE:HG22	1.62	0.81
46:BQ:20:THR:HA	46:BQ:26:GLY:H	0.99	0.81
46:BQ:20:THR:OG1	46:BQ:26:GLY:CA	2.23	0.81
51:BV:74:ARG:CG	51:BV:81:PHE:HB3	2.09	0.81
53:BX:21:LYS:HA	53:BX:24:LEU:HD12	1.62	0.81
53:BX:77:ALA:O	53:BX:80:ARG:HB2	1.79	0.81
55:CA:2:ILE:HG21	55:CA:199:VAL:CG1	2.10	0.81
55:CA:40:GLU:H	55:CA:41:ARG:C	1.88	0.81
1:AA:120:U:O2'	1:AA:121:G:H5''	1.81	0.81
1:AA:209:C:C2'	1:AA:210:C:H5'	2.11	0.81
1:AA:475:U:H4'	1:AA:510:C:OP2	1.80	0.81
1:AA:729:G:P	4:AD:13:ARG:HH22	2.03	0.81
1:AA:775:G:N2	1:AA:787:U:H2'	1.95	0.81
1:AA:924:C:H2'	1:AA:925:C:C6	2.14	0.81
1:AA:996:A:H2'	1:AA:997:G:H8	1.43	0.81
1:AA:1059:G:C1'	10:AJ:75:SER:H	1.92	0.81
1:AA:1068:G:O4'	1:AA:1096:A:C1'	2.18	0.81
1:AA:1161:C:H1'	19:AS:22:VAL:HG11	1.60	0.81
1:AA:1188:U:O2	1:AA:1188:U:H2'	1.80	0.81
1:AA:1451:C:H5'	1:AA:1453:A:OP2	1.79	0.81
1:AA:1475:G:H21	1:AA:1476:C:C5'	1.93	0.81
1:AA:1543:A:C3'	1:AA:1544:C:H4'	2.09	0.81
1:AA:1770:G:O2'	1:AA:1771:C:H5'	1.79	0.81
1:AA:1813:G:O2'	4:AD:52:ARG:NH2	2.12	0.81
1:AA:1906:G:O6	56:AA:3001:NMY:H7	1.79	0.81
1:AA:2468:G:N2	1:AA:2481:G:H2'	1.94	0.81
1:AA:2489:G:H2'	1:AA:2490:G:H8	1.46	0.81
1:AA:2548:G:H8	1:AA:2548:G:H5'	1.43	0.81
1:AA:2568:C:C2'	1:AA:2569:G:H5'	2.10	0.81
1:AA:2597:G:C1'	4:AD:242:ARG:HH21	1.93	0.81
1:AA:2637:U:H5''	5:AE:81:ILE:CD1	2.09	0.81
1:AA:2659:G:OP1	8:AH:158:HIS:NE2	2.13	0.81
2:AB:11:C:H3'	24:AX:74:ARG:CZ	2.11	0.81
4:AD:108:PRO:HB2	4:AD:111:LEU:HD21	1.63	0.81
4:AD:117:VAL:HG11	4:AD:128:GLY:C	2.04	0.81
4:AD:155:LEU:O	4:AD:155:LEU:HD23	1.81	0.81
5:AE:52:LEU:HB2	5:AE:73:GLU:O	1.81	0.81
5:AE:173:VAL:HG22	5:AE:183:LEU:O	1.80	0.81
6:AF:125:LEU:C	6:AF:127:GLU:H	1.84	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:53:LEU:HB3	7:AG:69:ALA:O	1.80	0.81
7:AG:59:GLU:OE1	7:AG:152:LEU:HD13	1.80	0.81
7:AG:163:ALA:HB2	7:AG:172:LEU:CD2	2.08	0.81
8:AH:26:VAL:HG12	8:AH:79:VAL:HG11	1.62	0.81
8:AH:42:ARG:O	8:AH:53:GLU:HG2	1.79	0.81
8:AH:98:LEU:CG	8:AH:123:PHE:HB2	2.11	0.81
9:AI:54:ALA:CB	9:AI:83:TYR:O	2.10	0.81
9:AI:140:GLY:HA3	33:Ag:137:UNK:HA	0.94	0.81
12:AL:21:CYS:HA	12:AL:41:ALA:HB2	1.61	0.81
12:AL:117:LEU:HD23	12:AL:118:ALA:N	1.96	0.81
12:AL:122:LEU:HG	17:AQ:71:GLY:O	1.80	0.81
13:AM:47:ASP:HB3	13:AM:48:PRO:CD	2.09	0.81
15:AO:54:LEU:O	15:AO:57:ARG:HB2	1.80	0.81
17:AQ:111:ARG:HA	17:AQ:114:LEU:CD1	2.10	0.81
18:AR:15:LYS:CA	18:AR:18:LEU:HD23	2.07	0.81
18:AR:88:ILE:O	19:AS:52:VAL:HA	1.79	0.81
20:AT:25:ARG:HH11	20:AT:74:ALA:H	0.88	0.81
21:AU:4:ALA:HB3	25:AY:21:ARG:NH2	1.94	0.81
22:AV:12:THR:HG23	22:AV:73:ARG:HG3	1.63	0.81
23:AW:152:ALA:HB3	23:AW:168:GLU:CA	2.10	0.81
25:AY:1:MET:HB3	25:AY:4:GLN:HB2	1.61	0.81
29:Ac:12:GLU:CG	29:Ac:13:CYS:H	1.93	0.81
34:BA:91:C:H2'	34:BA:92:G:C8	2.13	0.81
34:BA:174:C:H2'	34:BA:175:C:C6	2.14	0.81
34:BA:410:G:N3	34:BA:432:A:N6	2.28	0.81
34:BA:932:C:C3'	40:BK:3:ARG:HG3	2.10	0.81
34:BA:988:G:H2'	34:BA:989:C:O4'	1.80	0.81
34:BA:994:A:C2	47:BR:5:ALA:HA	2.16	0.81
34:BA:1117:G:N1	34:BA:1184:G:C4	2.44	0.81
34:BA:1151:A:C6	34:BA:1152:A:C5	2.68	0.81
34:BA:1314:C:H42	34:BA:1324:A:N6	1.77	0.81
34:BA:1414:U:O2	34:BA:1487:G:N2	2.00	0.81
35:BF:234:PRO:HA	35:BF:238:LEU:HD13	1.60	0.81
41:BL:22:GLU:O	41:BL:62:TYR:HA	1.79	0.81
45:BP:27:LEU:O	45:BP:29:GLY:N	2.12	0.81
46:BQ:16:ASP:CA	46:BQ:34:LEU:HD11	2.00	0.81
48:BS:33:THR:O	48:BS:36:ILE:HG22	1.79	0.81
50:BU:80:GLY:O	50:BU:82:MET:HG2	1.81	0.81
51:BV:49:LYS:H	51:BV:49:LYS:HE3	1.43	0.81
52:BW:9:VAL:HG13	52:BW:41:VAL:O	1.75	0.81
55:CA:19:THR:N	55:CA:20:THR:OG1	2.13	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:106:MET:HB3	55:CA:108:GLN:CD	2.05	0.81
1:AA:570:G:H1	1:AA:2498:C:C4'	1.92	0.81
1:AA:574:C:C2	1:AA:2055:C:H5	1.98	0.81
1:AA:642:G:N2	1:AA:644:A:C2	2.49	0.81
1:AA:759:G:H2'	1:AA:760:G:C8	2.16	0.81
1:AA:860:U:C6	1:AA:2267:A:H4'	2.15	0.81
1:AA:935:C:H2'	1:AA:936:C:H6	1.46	0.81
1:AA:997:G:C5'	18:AR:92:ARG:HH11	1.93	0.81
1:AA:1056:G:H4'	1:AA:1057:A:H5'	1.62	0.81
1:AA:1064:C:H3'	1:AA:1065:U:H5	1.45	0.81
1:AA:1343:G:H1'	1:AA:1597:A:C2	2.15	0.81
1:AA:1580:A:H2'	1:AA:1581:G:N9	1.96	0.81
1:AA:1625:C:H2'	1:AA:1626:G:C4'	2.03	0.81
1:AA:2331:G:N2	1:AA:2385:C:C4	2.49	0.81
1:AA:2446:G:O2'	1:AA:2448:A:H5''	1.79	0.81
1:AA:2629:A:N1	1:AA:2801:A:C2	2.48	0.81
3:AC:89:ALA:HA	3:AC:154:ARG:HG3	1.60	0.81
4:AD:175:LEU:HD13	4:AD:175:LEU:C	2.06	0.81
5:AE:33:VAL:HG21	5:AE:77:ILE:CD1	2.10	0.81
6:AF:34:TRP:CD2	13:AM:8:PRO:HB2	2.15	0.81
6:AF:43:LYS:HA	6:AF:97:TYR:O	1.81	0.81
10:AJ:27:LEU:HD11	10:AJ:57:ILE:CB	2.11	0.81
11:AK:37:LYS:CD	11:AK:43:THR:HA	2.10	0.81
14:AN:137:TYR:CZ	23:AW:124:ILE:HD11	2.16	0.81
16:AP:73:LEU:HD13	16:AP:73:LEU:H	1.44	0.81
18:AR:88:ILE:HG22	19:AS:55:ALA:CB	2.10	0.81
20:AT:64:MET:O	20:AT:66:GLU:N	2.13	0.81
22:AV:8:LYS:HA	22:AV:28:LYS:HD2	1.60	0.81
23:AW:45:ASP:O	23:AW:46:LYS:C	2.22	0.81
29:Ac:24:GLU:CG	31:Ae:37:SER:HB2	2.10	0.81
34:BA:558:G:H3'	34:BA:559:A:C5'	2.09	0.81
34:BA:1104:G:C4'	35:BF:111:ARG:HE	1.93	0.81
34:BA:1158:C:C1'	35:BF:133:LYS:NZ	2.40	0.81
34:BA:1237:C:O2	34:BA:1335:C:H5'	1.80	0.81
35:BF:17:PHE:O	35:BF:42:ILE:HG22	1.79	0.81
36:BG:15:THR:O	36:BG:16:ARG:HB3	1.79	0.81
50:BU:4:LYS:HD2	50:BU:5:VAL:N	1.95	0.81
55:CA:125:VAL:O	55:CA:163:VAL:N	2.14	0.81
55:CA:305:PRO:HB2	55:CA:360:GLY:O	1.80	0.81
55:CA:327:THR:O	55:CA:331:ILE:HG13	1.80	0.81
55:CA:382:VAL:O	55:CA:572:ILE:HD13	1.80	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:392:ILE:C	55:CA:394:GLY:HA3	2.04	0.81
1:AA:245:G:N2	1:AA:254:G:H1'	1.96	0.81
1:AA:270:A:C2	1:AA:370:G:H1'	2.14	0.81
1:AA:764:A:N6	1:AA:1789:A:C2	2.47	0.81
1:AA:1105:U:O4'	1:AA:1106:G:P	2.31	0.81
1:AA:1263:U:O3'	28:Ab:10:LYS:HD3	1.81	0.81
1:AA:1819:A:H1'	1:AA:1821:A:N3	1.94	0.81
1:AA:1958:C:O2'	1:AA:1959:G:H5'	1.81	0.81
1:AA:2102:U:H2'	1:AA:2103:C:C6	2.15	0.81
1:AA:2195:C:H2'	1:AA:2196:C:O4'	1.81	0.81
1:AA:2453:A:O2'	1:AA:2572:A:H1'	1.80	0.81
3:AC:22:ILE:HB	3:AC:190:ARG:HH22	1.45	0.81
3:AC:46:LYS:HG3	3:AC:211:SER:OG	1.81	0.81
4:AD:60:ARG:HD3	4:AD:62:TYR:CE2	2.15	0.81
4:AD:159:ALA:C	4:AD:196:VAL:HG21	2.05	0.81
4:AD:181:GLU:HA	4:AD:270:ILE:HG21	1.61	0.81
6:AF:12:LEU:O	6:AF:14:PRO:HD3	1.81	0.81
6:AF:104:LYS:HG3	6:AF:108:LYS:NZ	1.94	0.81
6:AF:156:LEU:HG	6:AF:173:VAL:HG23	1.60	0.81
7:AG:181:ARG:HD2	7:AG:181:ARG:N	1.95	0.81
8:AH:175:LYS:CG	8:AH:176:ALA:H	1.93	0.81
11:AK:89:LYS:HG2	11:AK:90:MET:N	1.96	0.81
12:AL:10:VAL:HG12	12:AL:17:ARG:HA	1.60	0.81
13:AM:72:PRO:O	13:AM:111:ARG:HB3	1.80	0.81
18:AR:69:CYS:SG	18:AR:70:ARG:HG3	2.20	0.81
18:AR:89:GLU:OE1	19:AS:50:PRO:HB3	1.79	0.81
19:AS:20:LEU:HD13	19:AS:68:LYS:NZ	1.96	0.81
20:AT:36:LEU:HD23	20:AT:51:LEU:CD2	2.11	0.81
21:AU:40:LYS:HA	21:AU:51:VAL:HG11	1.63	0.81
34:BA:52:G:H2'	34:BA:53:A:H8	1.43	0.81
34:BA:246:A:O2'	34:BA:247:G:O4'	1.97	0.81
34:BA:264:U:O2	34:BA:264:U:H2'	1.78	0.81
34:BA:450:G:O6	34:BA:481:G:H2'	1.81	0.81
34:BA:573:A:N3	34:BA:883:C:O2'	2.13	0.81
34:BA:859:A:O2'	34:BA:860:A:H5'	1.81	0.81
34:BA:1154:G:O2'	34:BA:1155:G:H5'	1.80	0.81
34:BA:1433:A:H2'	34:BA:1434:A:O4'	1.81	0.81
34:BA:1435:G:C2	34:BA:1436:U:C4	2.69	0.81
34:BA:1514:C:H2'	34:BA:1515:C:C6	2.15	0.81
40:BK:126:ASP:HA	40:BK:131:LYS:CE	2.10	0.81
44:BO:57:THR:HG23	44:BO:60:ALA:N	1.95	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:65:LYS:HD3	46:BQ:65:LYS:N	1.95	0.81
47:BR:39:LEU:HD13	47:BR:44:LEU:HA	1.62	0.81
48:BS:17:ARG:NH1	48:BS:77:ARG:HD3	1.94	0.81
52:BW:11:VAL:HG12	52:BW:15:LEU:HB2	1.58	0.81
55:CA:287:THR:CB	55:CA:297:LEU:HG	2.10	0.81
1:AA:146:G:H3'	1:AA:147:U:H5''	1.61	0.81
1:AA:339:U:H2'	1:AA:340:A:C8	2.16	0.81
1:AA:464:U:O5'	1:AA:464:U:H6	1.63	0.81
1:AA:620:G:H5'	1:AA:621:A:OP1	1.79	0.81
1:AA:1155:A:H2'	1:AA:1156:A:C5'	2.11	0.81
1:AA:1922:G:O6	56:AA:3001:NMY:H62	1.79	0.81
1:AA:2059:A:N1	1:AA:2503:A:C5	2.48	0.81
1:AA:2233:U:H2'	1:AA:2234:G:H8	1.46	0.81
1:AA:2345:G:O2'	1:AA:2346:A:OP2	1.98	0.81
1:AA:2590:A:H2'	1:AA:2591:C:C6	2.15	0.81
1:AA:2690:C:C5	15:AO:14:SER:HB2	2.15	0.81
1:AA:2715:C:O2'	1:AA:2716:U:H5'	1.80	0.81
1:AA:2740:A:H2'	1:AA:2741:A:C8	2.15	0.81
1:AA:2880:C:H4'	15:AO:90:ARG:HD2	1.62	0.81
4:AD:8:PRO:HD2	4:AD:26:LYS:C	2.04	0.81
6:AF:158:THR:CG2	6:AF:196:LEU:H	1.88	0.81
7:AG:102:PHE:CD1	7:AG:106:LEU:HD12	2.15	0.81
10:AJ:16:LYS:O	10:AJ:45:THR:OG1	1.98	0.81
14:AN:16:ARG:NE	14:AN:73:PRO:HD3	1.96	0.81
19:AS:62:LEU:HD22	19:AS:99:ILE:N	1.96	0.81
23:AW:4:ARG:O	23:AW:5:LEU:HD23	1.81	0.81
23:AW:144:LEU:CB	23:AW:174:VAL:HG11	2.10	0.81
26:AZ:22:ALA:O	26:AZ:26:LEU:HD22	1.81	0.81
27:Aa:21:VAL:HG12	27:Aa:22:ILE:N	1.92	0.81
33:Ag:7:UNK:CB	33:Ag:143:UNK:O	2.29	0.81
34:BA:582:U:H5'	48:BS:64:ARG:NH2	1.96	0.81
34:BA:795:C:C4'	34:BA:1506:U:O2	2.28	0.81
34:BA:867:G:H2'	34:BA:868:C:C6	2.16	0.81
34:BA:1135:U:H2'	34:BA:1137:C:C6	2.16	0.81
34:BA:1316:G:O2'	34:BA:1318:A:N6	2.12	0.81
34:BA:1454:G:P	53:BX:39:LYS:CD	2.68	0.81
36:BG:182:ILE:HG23	36:BG:202:ILE:O	1.79	0.81
37:BH:155:LEU:H	37:BH:158:ILE:HG13	1.45	0.81
40:BK:29:LYS:HE3	40:BK:101:LEU:HD13	1.62	0.81
41:BL:14:ARG:HH11	41:BL:14:ARG:CB	1.94	0.81
43:BN:9:ARG:O	43:BN:94:VAL:HG13	1.79	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:16:ASP:H	46:BQ:34:LEU:CD2	1.94	0.81
46:BQ:97:PRO:CG	46:BQ:101:GLN:HG3	2.11	0.81
50:BU:4:LYS:CD	50:BU:5:VAL:H	1.94	0.81
53:BX:58:LYS:O	53:BX:61:SER:OG	1.97	0.81
55:CA:7:ASN:HB3	55:CA:71:ASN:O	1.80	0.81
55:CA:18:LYS:N	57:CA:701:GCP:PB	2.51	0.81
55:CA:490:SER:O	55:CA:534:THR:HG22	1.79	0.81
1:AA:576:U:H2'	1:AA:577:G:H8	1.42	0.81
1:AA:816:C:H5'	1:AA:816:C:H6	1.45	0.81
1:AA:829:A:H5''	1:AA:830:G:H5''	1.62	0.81
1:AA:1058:G:C1'	10:AJ:116:ASN:ND2	2.43	0.81
1:AA:1334:G:H5''	21:AU:65:ARG:HH12	1.44	0.81
1:AA:1534:G:H21	1:AA:1537:C:H5	1.21	0.81
1:AA:1780:A:C3'	1:AA:1781:C:H5'	2.09	0.81
1:AA:2416:C:H2'	1:AA:2417:C:C5'	2.05	0.81
1:AA:2865:U:C4	1:AA:2866:U:C5	2.69	0.81
3:AC:43:VAL:HG22	3:AC:214:VAL:HG22	1.62	0.81
3:AC:108:MET:HE3	3:AC:136:LEU:CD1	2.10	0.81
5:AE:100:GLU:H	5:AE:172:VAL:HG21	1.44	0.81
6:AF:64:ILE:HD13	6:AF:65:TRP:H	1.43	0.81
7:AG:49:ASP:CA	7:AG:53:LEU:HD22	2.09	0.81
7:AG:171:ALA:HA	7:AG:174:GLU:OE1	1.81	0.81
8:AH:11:VAL:HG12	8:AH:11:VAL:O	1.80	0.81
8:AH:41:MET:SD	8:AH:68:THR:OG1	2.38	0.81
12:AL:69:VAL:N	12:AL:104:ARG:NH2	2.29	0.81
14:AN:51:ARG:HD3	14:AN:52:VAL:N	1.96	0.81
15:AO:17:ARG:HG3	15:AO:18:LEU:N	1.96	0.81
20:AT:41:LYS:HB3	20:AT:41:LYS:HZ3	1.45	0.81
21:AU:63:LYS:H	21:AU:72:LYS:HG2	1.46	0.81
34:BA:1003:G:C5	34:BA:1004:A:H1'	2.15	0.81
34:BA:1068:G:N7	34:BA:1094:G:C8	2.49	0.81
34:BA:1117:G:H21	34:BA:1184:G:H1'	1.46	0.81
34:BA:1202:G:H2'	34:BA:1203:C:C6	2.15	0.81
34:BA:1313:U:C4	34:BA:1325:C:C2	2.69	0.81
35:BF:104:ASN:OD1	35:BF:108:ILE:HG12	1.80	0.81
36:BG:181:ASN:ND2	36:BG:206:GLU:HG2	1.96	0.81
37:BH:129:ASN:OD1	37:BH:144:ASP:HB3	1.79	0.81
41:BL:65:TYR:C	41:BL:67:PRO:HD3	2.06	0.81
51:BV:38:GLU:CD	51:BV:38:GLU:H	1.89	0.81
52:BW:18:LYS:HE3	52:BW:18:LYS:CA	2.10	0.81
53:BX:23:ARG:HA	53:BX:26:ASN:OD1	1.81	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:377:GLY:CA	55:CA:582:PRO:HG2	2.09	0.81
55:CA:400:TYR:CE1	55:CA:444:PRO:HG3	2.14	0.81
1:AA:90:U:H4'	1:AA:91:A:O5'	1.80	0.81
1:AA:624:C:H3'	1:AA:624:C:C6	2.15	0.81
1:AA:855:G:H21	24:AX:27:GLU:CB	1.93	0.81
1:AA:875:G:N2	1:AA:902:C:H1'	1.95	0.81
1:AA:1028:A:OP2	1:AA:1126:A:N6	2.11	0.81
1:AA:1048:A:N1	1:AA:1112:G:O2'	2.14	0.81
1:AA:1077:A:N6	1:AA:1088:A:O2'	2.13	0.81
1:AA:1203:G:N1	1:AA:1241:A:H8	1.78	0.81
1:AA:1542:G:C1'	1:AA:1543:A:C6	2.63	0.81
1:AA:2876:G:H4'	17:AQ:1:MET:N	1.95	0.81
2:AB:30:C:H2'	2:AB:31:C:H5'	1.61	0.81
5:AE:104:VAL:HG12	5:AE:105:THR:N	1.94	0.81
5:AE:170:LEU:N	5:AE:170:LEU:HD23	1.95	0.81
6:AF:38:ARG:HH22	13:AM:10:PRO:HA	1.44	0.81
6:AF:171:PRO:HB2	6:AF:172:TRP:HE3	1.46	0.81
8:AH:163:TYR:HB3	8:AH:166:GLY:HA2	1.61	0.81
9:AI:152:VAL:C	9:AI:155:GLY:CA	2.54	0.81
10:AJ:27:LEU:CD2	10:AJ:57:ILE:O	2.15	0.81
10:AJ:53:VAL:HG22	10:AJ:71:THR:C	2.04	0.81
12:AL:25:LEU:CB	12:AL:38:VAL:O	2.28	0.81
14:AN:25:ASP:CB	14:AN:102:VAL:H	1.93	0.81
14:AN:110:THR:O	14:AN:111:GLU:HB2	1.81	0.81
18:AR:13:LYS:O	18:AR:16:LYS:HB3	1.80	0.81
23:AW:127:LYS:HD3	23:AW:165:VAL:HG23	1.60	0.81
27:Aa:65:ASP:CA	27:Aa:68:ARG:NH2	2.42	0.81
28:Ab:13:LYS:HD3	28:Ab:13:LYS:N	1.96	0.81
34:BA:389:A:H2'	34:BA:390:C:C5'	2.10	0.81
34:BA:1117:G:N1	34:BA:1184:G:N7	2.28	0.81
34:BA:1244:C:H2'	34:BA:1245:A:H8	1.46	0.81
34:BA:1255:G:H21	34:BA:1276:G:N2	1.79	0.81
34:BA:1270:C:O2'	34:BA:1313:U:C3'	2.28	0.81
35:BF:69:LEU:HD22	35:BF:91:PRO:C	2.05	0.81
37:BH:10:ARG:C	37:BH:10:ARG:HD3	2.05	0.81
37:BH:194:LEU:N	37:BH:194:LEU:HD22	1.95	0.81
39:BJ:48:LEU:HD23	39:BJ:48:LEU:N	1.94	0.81
44:BO:80:VAL:H	44:BO:104:GLN:NE2	1.78	0.81
53:BX:81:LYS:HB3	53:BX:85:MET:HE3	1.62	0.81
55:CA:396:LYS:CA	55:CA:474:ASP:CA	2.54	0.81
1:AA:292:C:H2'	1:AA:293:U:C2	2.16	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:374:A:H3'	1:AA:375:C:H6	1.46	0.81
1:AA:763:G:C2'	1:AA:764:A:H5''	2.11	0.81
1:AA:1387:C:H2'	1:AA:1388:G:C8	2.16	0.81
1:AA:2022:U:H5'	1:AA:2023:G:OP2	1.81	0.81
1:AA:2208:U:H4'	4:AD:151:LYS:NZ	1.94	0.81
1:AA:2227:A:H4'	4:AD:262:ARG:HG3	1.61	0.81
1:AA:2269:A:OP1	1:AA:2269:A:H3'	1.81	0.81
1:AA:2352:A:H2'	1:AA:2353:G:O4'	1.81	0.81
1:AA:2468:G:H3'	1:AA:2476:A:N1	1.96	0.81
1:AA:2627:G:C2'	1:AA:2628:C:H5'	2.11	0.81
1:AA:2631:G:N7	1:AA:2894:G:C8	2.49	0.81
1:AA:2687:U:H2'	1:AA:2687:U:O2	1.81	0.81
1:AA:2709:G:C2'	1:AA:2710:C:H5'	2.09	0.81
8:AH:17:VAL:HG22	8:AH:45:VAL:HG21	1.61	0.81
8:AH:167:GLU:O	8:AH:169:VAL:HG13	1.81	0.81
11:AK:33:LEU:O	11:AK:35:ARG:N	2.13	0.81
12:AL:97:ARG:CZ	12:AL:98:VAL:N	2.44	0.81
16:AP:95:HIS:HA	16:AP:99:LYS:HD2	1.63	0.81
26:AZ:10:LYS:HG2	26:AZ:12:PRO:HD3	1.60	0.81
26:AZ:22:ALA:HB1	26:AZ:46:ASN:OD1	1.80	0.81
30:Ad:19:ARG:HB3	30:Ad:23:ARG:NH2	1.95	0.81
32:Af:7:VAL:HG21	32:Af:36:GLN:NE2	1.96	0.81
34:BA:333:G:H4'	53:BX:16:HIS:CD2	2.16	0.81
35:BF:61:LEU:HA	35:BF:64:ARG:HD3	1.61	0.81
35:BF:80:ILE:HD12	35:BF:208:ILE:CG1	2.11	0.81
35:BF:97:TRP:CH2	35:BF:176:GLU:HG3	2.15	0.81
35:BF:134:GLU:HG3	35:BF:138:LEU:HD11	1.62	0.81
41:BL:103:VAL:HB	41:BL:108:GLY:C	2.06	0.81
42:BM:19:LEU:HD23	42:BM:60:ASP:O	1.81	0.81
44:BO:18:ARG:HA	44:BO:80:VAL:HG23	1.63	0.81
44:BO:87:THR:HA	44:BO:91:ARG:NH1	1.96	0.81
50:BU:12:SER:N	50:BU:20:THR:OG1	2.14	0.81
51:BV:45:SER:OG	51:BV:51:LEU:HD11	1.80	0.81
52:BW:9:VAL:HG11	52:BW:41:VAL:O	1.79	0.81
52:BW:25:LYS:HD2	52:BW:25:LYS:C	2.06	0.81
55:CA:287:THR:HG21	55:CA:297:LEU:O	1.80	0.81
55:CA:309:MET:HG3	55:CA:358:VAL:HB	1.62	0.81
55:CA:322:GLU:CG	55:CA:379:GLU:CD	2.54	0.81
55:CA:383:SER:CB	55:CA:384:ARG:HA	2.10	0.81
1:AA:287:C:C2'	1:AA:288:C:C5	2.64	0.81
1:AA:450:G:C5'	6:AF:52:LYS:HD3	2.10	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1555:G:OP2	1:AA:1555:G:H3'	1.80	0.81
1:AA:1742:C:H2'	1:AA:1743:G:H4'	1.61	0.81
1:AA:1743:G:H4'	1:AA:1743:G:OP1	1.78	0.81
1:AA:2394:C:N4	1:AA:2422:A:H61	1.79	0.81
1:AA:2416:C:C5'	13:AM:59:LEU:HB2	2.05	0.81
1:AA:2447:G:H3'	1:AA:2499:C:P	2.21	0.81
1:AA:2468:G:O2'	1:AA:2469:A:H5'	1.79	0.81
1:AA:2652:C:O2'	1:AA:2653:U:OP1	1.98	0.81
2:AB:35:U:H2'	2:AB:35:U:O2	1.80	0.81
2:AB:76:G:H5'	23:AW:85:HIS:ND1	1.95	0.81
4:AD:80:ALA:HB2	4:AD:96:HIS:HD1	1.45	0.81
5:AE:154:LYS:HD2	5:AE:154:LYS:C	2.05	0.81
5:AE:176:ILE:HD12	5:AE:179:GLU:O	1.80	0.81
5:AE:197:ILE:N	5:AE:197:ILE:HD12	1.95	0.81
6:AF:6:VAL:HB	6:AF:18:ARG:HD2	1.63	0.81
7:AG:11:TYR:O	7:AG:15:VAL:HG13	1.81	0.81
7:AG:73:ALA:N	7:AG:88:ILE:HD11	1.96	0.81
7:AG:78:SER:HB2	7:AG:82:LEU:CB	2.10	0.81
10:AJ:22:PRO:C	10:AJ:24:GLY:HA3	2.06	0.81
19:AS:57:VAL:HG12	19:AS:58:VAL:N	1.96	0.81
19:AS:64:HIS:ND1	19:AS:96:ILE:HG22	1.96	0.81
20:AT:39:THR:HG23	28:Ab:28:PRO:HB3	1.62	0.81
27:Aa:68:ARG:NH1	27:Aa:68:ARG:HB2	1.95	0.81
29:Ac:15:GLU:CD	29:Ac:21:TYR:HB3	2.06	0.81
34:BA:37:U:O4	34:BA:38:G:C4	2.34	0.81
34:BA:55:A:O2'	34:BA:56:U:H5'	1.81	0.81
34:BA:87:A:N7	34:BA:88:C:C4	2.48	0.81
34:BA:133:U:H3	34:BA:229:U:H3	1.26	0.81
34:BA:1189:C:H5''	36:BG:5:ILE:HG12	1.63	0.81
35:BF:16:HIS:HA	35:BF:204:ASN:HB2	1.63	0.81
36:BG:48:TYR:HA	36:BG:52:LEU:CD2	2.11	0.81
43:BN:49:VAL:HG13	47:BR:41:ARG:CD	2.11	0.81
45:BP:9:GLN:HA	45:BP:12:ARG:HH12	1.46	0.81
46:BQ:36:LYS:NZ	46:BQ:59:TYR:HB3	1.95	0.81
55:CA:307:VAL:CG1	55:CA:366:LEU:CD1	2.59	0.81
1:AA:125:G:H21	30:Ad:13:ALA:HB3	1.45	0.80
1:AA:508:G:O2'	1:AA:509:C:H5''	1.81	0.80
1:AA:640:C:C2'	1:AA:641:C:C5'	2.60	0.80
1:AA:828:U:C2'	1:AA:829:A:H8	1.89	0.80
1:AA:1526:G:H21	1:AA:1545(A):A:H62	1.27	0.80
1:AA:1706:U:H3	1:AA:1757:U:H5''	1.46	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1924:C:C6	1:AA:1925:C:H5	1.98	0.80
1:AA:2269:A:C2	1:AA:2270:G:H1'	2.16	0.80
1:AA:2393:A:P	31:Ae:32:LEU:HD11	2.21	0.80
7:AG:68:PRO:CB	7:AG:72:ARG:HH12	1.90	0.80
10:AJ:64:SER:CB	10:AJ:65:PHE:HB3	2.09	0.80
10:AJ:105:LEU:CD2	10:AJ:123:ALA:HB1	2.11	0.80
12:AL:106:LEU:HB2	17:AQ:39:ARG:NH2	1.95	0.80
12:AL:119:PRO:C	34:BA:347:G:OP2	2.24	0.80
14:AN:36:ALA:O	14:AN:37:LEU:HG	1.81	0.80
17:AQ:21:GLU:HG3	17:AQ:88:ILE:HD13	1.64	0.80
22:AV:32:PRO:HB2	22:AV:34:LYS:HG3	1.63	0.80
29:Ac:12:GLU:HG2	29:Ac:13:CYS:N	1.94	0.80
34:BA:1104:G:H4'	35:BF:111:ARG:NE	1.95	0.80
34:BA:1347:G:H8	42:BM:107:ARG:CB	1.93	0.80
36:BG:8:ILE:HG21	47:BR:50:LYS:O	1.81	0.80
37:BH:168:ARG:CD	37:BH:168:ARG:H	1.94	0.80
45:BP:87:GLY:HA2	45:BP:98:TYR:HB3	1.63	0.80
52:BW:51:VAL:HG11	52:BW:75:ALA:CB	2.11	0.80
55:CA:13:HIS:ND1	55:CA:109:THR:HG23	1.96	0.80
55:CA:63:ALA:HB1	55:CA:65:LYS:CG	2.11	0.80
55:CA:124:ILE:HD13	55:CA:161:ALA:HB2	1.60	0.80
55:CA:144:VAL:HG13	55:CA:147:LEU:CD2	2.11	0.80
1:AA:47:C:H6	1:AA:47:C:O5'	1.64	0.80
1:AA:192:C:H2'	1:AA:192:C:O2	1.80	0.80
1:AA:241:A:H1'	1:AA:243:U:C1'	2.10	0.80
1:AA:355:G:H2'	1:AA:356:G:H8	1.46	0.80
1:AA:389:G:OP2	27:Aa:24:THR:HG23	1.82	0.80
1:AA:568:U:N3	1:AA:571:A:OP2	2.15	0.80
1:AA:1142(A):A:H3'	1:AA:1143:A:C5'	2.11	0.80
1:AA:1416:G:C2	1:AA:1583:A:N6	2.49	0.80
1:AA:1508:A:H5''	1:AA:1510:A:C5	2.16	0.80
1:AA:1624:G:H2'	1:AA:1625:C:H5	1.46	0.80
1:AA:1906:G:C8	1:AA:1929:G:N9	2.48	0.80
1:AA:2568:C:H2'	1:AA:2569:G:H5'	1.63	0.80
1:AA:2788:C:C4	1:AA:2789:C:C5	2.68	0.80
2:AB:24:G:H2'	2:AB:56:G:O6	1.81	0.80
3:AC:59:ARG:HG3	3:AC:60:GLY:N	1.96	0.80
3:AC:167:LYS:HG3	3:AC:168:THR:N	1.95	0.80
5:AE:7:VAL:CG2	5:AE:192:ASN:HA	2.10	0.80
9:AI:73:GLY:O	9:AI:75:GLN:N	2.13	0.80
12:AL:4:PRO:CG	12:AL:5:GLN:H	1.89	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:42:ILE:CG2	14:AN:95:ALA:HB3	2.09	0.80
14:AN:74:TYR:HD1	14:AN:74:TYR:N	1.78	0.80
17:AQ:52:ILE:N	17:AQ:66:VAL:HG12	1.97	0.80
17:AQ:78:LEU:HD21	17:AQ:84:GLN:OE1	1.81	0.80
18:AR:7:GLY:O	18:AR:8:VAL:C	2.24	0.80
18:AR:98:LEU:HB3	18:AR:105:VAL:CG1	2.11	0.80
19:AS:40:LEU:HD11	19:AS:55:ALA:HA	1.62	0.80
22:AV:74:PRO:HG2	22:AV:76:CYS:HB3	1.61	0.80
23:AW:24:LEU:HD13	23:AW:83:PRO:HD2	1.64	0.80
24:AX:23:VAL:HA	24:AX:38:VAL:HG13	1.62	0.80
28:Ab:25:LEU:HG	28:Ab:25:LEU:O	1.79	0.80
33:Ag:7:UNK:CB	33:Ag:143:UNK:C	2.59	0.80
33:Ag:289:UNK:C	33:Ag:343:UNK:CA	2.53	0.80
34:BA:114:U:H2'	34:BA:115:G:C8	2.15	0.80
34:BA:761:G:H5'	50:BU:103:GLY:N	1.96	0.80
34:BA:775:G:N3	34:BA:776:G:N7	2.29	0.80
34:BA:952:U:O2'	34:BA:965:A:N6	2.14	0.80
34:BA:1045:C:H2'	34:BA:1046:A:H8	1.43	0.80
34:BA:1117:G:N1	34:BA:1184:G:C8	2.49	0.80
37:BH:13:ARG:HE	37:BH:40:PRO:HB3	1.45	0.80
42:BM:9:ARG:O	42:BM:104:ARG:HG2	1.81	0.80
42:BM:29:ASN:OD1	42:BM:64:THR:HA	1.81	0.80
45:BP:60:LEU:N	45:BP:60:LEU:CD1	2.42	0.80
48:BS:36:ILE:HD12	48:BS:63:ARG:HD3	1.63	0.80
55:CA:406:ASP:CA	55:CA:407:VAL:HG13	2.11	0.80
1:AA:193:U:H4'	1:AA:803:U:C4'	2.11	0.80
1:AA:1068:G:H5'	1:AA:1096:A:H1'	1.61	0.80
1:AA:1325:G:N2	20:AT:86:LEU:HD13	1.96	0.80
1:AA:1488:G:H2'	1:AA:1489:U:C5'	2.09	0.80
1:AA:1691:C:O2'	1:AA:1692:U:H5'	1.82	0.80
1:AA:1799:G:H5''	4:AD:264:LYS:CE	2.12	0.80
1:AA:2254:C:H2'	1:AA:2255:G:C5'	2.11	0.80
1:AA:2676:C:H2'	1:AA:2677:G:H8	1.45	0.80
1:AA:2733:A:H2'	1:AA:2734:A:O5'	1.81	0.80
1:AA:2734:A:N6	1:AA:2770:G:H1'	1.96	0.80
3:AC:56:GLN:O	3:AC:58:VAL:HG22	1.80	0.80
3:AC:64:LEU:HB3	3:AC:188:ASN:OD1	1.80	0.80
3:AC:77:ILE:HD12	3:AC:123:VAL:HG13	1.62	0.80
3:AC:131:LEU:HB3	3:AC:136:LEU:C	2.06	0.80
4:AD:5:LYS:HZ3	4:AD:31:LYS:HZ1	0.82	0.80
5:AE:147:PRO:HG2	5:AE:149:ARG:HD3	1.60	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:110:ALA:HB1	7:AG:139:LEU:CG	2.11	0.80
8:AH:11:VAL:CB	8:AH:50:VAL:HG21	2.11	0.80
10:AJ:72:PRO:HG3	10:AJ:77:LEU:CD2	0.68	0.80
10:AJ:81:ALA:O	10:AJ:99:ILE:CG2	2.30	0.80
11:AK:85:ILE:HB	11:AK:90:MET:CE	2.11	0.80
12:AL:97:ARG:HH11	12:AL:97:ARG:CB	1.94	0.80
16:AP:7:TYR:O	16:AP:10:ARG:HB2	1.81	0.80
16:AP:62:LYS:HB3	16:AP:65:VAL:N	1.96	0.80
25:AY:52:ILE:O	25:AY:55:LEU:HB2	1.80	0.80
34:BA:1037:C:H2'	34:BA:1038:C:C6	2.16	0.80
34:BA:1308:U:O3'	46:BQ:92:HIS:CE1	2.34	0.80
35:BF:196:LEU:HD12	35:BF:197:VAL:N	1.97	0.80
36:BG:3:ASN:CG	36:BG:4:LYS:H	1.89	0.80
37:BH:55:ALA:O	37:BH:59:ARG:CG	2.28	0.80
38:BI:109:ILE:HD13	38:BI:135:THR:CB	2.11	0.80
40:BK:28:ASN:O	40:BK:31:MET:HB3	1.80	0.80
42:BM:97:LYS:NZ	42:BM:102:LEU:HD13	1.95	0.80
48:BS:65:ARG:O	48:BS:68:ARG:HB3	1.81	0.80
49:BT:54:GLU:C	49:BT:54:GLU:CD	2.46	0.80
55:CA:2:ILE:CG2	55:CA:199:VAL:CG1	2.60	0.80
55:CA:230:LYS:CG	55:CA:265:THR:C	2.53	0.80
55:CA:248:ASN:ND2	55:CA:273:ILE:CD1	2.44	0.80
55:CA:407:VAL:O	55:CA:436:ARG:HA	1.79	0.80
55:CA:414:SER:O	55:CA:458:MET:SD	2.39	0.80
1:AA:603:A:H2'	1:AA:604:G:C8	2.17	0.80
1:AA:662:G:H5''	13:AM:19:VAL:HG13	1.62	0.80
1:AA:1266:G:HO2'	1:AA:2012:G:H1	1.25	0.80
1:AA:1602:U:H3'	1:AA:1602:U:C6	2.17	0.80
1:AA:1803:A:C4'	4:AD:257:LEU:HD13	2.12	0.80
1:AA:2286:A:H4'	1:AA:2287:A:C1'	2.08	0.80
1:AA:2538:C:O2	1:AA:2539:C:C5	2.34	0.80
1:AA:2747:G:O6	1:AA:2755:C:H5'	1.80	0.80
1:AA:2789:C:O2'	1:AA:2791:C:H5''	1.79	0.80
3:AC:8:ARG:HH11	3:AC:11:LEU:HD23	1.46	0.80
4:AD:130:ALA:O	4:AD:131:LEU:HD13	1.81	0.80
4:AD:258:LYS:HA	4:AD:261:LYS:CE	2.11	0.80
5:AE:92:THR:C	5:AE:94:GLU:H	1.88	0.80
7:AG:36:LYS:HB2	7:AG:95:ARG:HD3	1.61	0.80
8:AH:6:ARG:HA	8:AH:6:ARG:HH11	1.46	0.80
12:AL:47:ILE:CD1	12:AL:52:VAL:HG13	2.11	0.80
12:AL:49:ARG:CZ	34:BA:1423:G:H5''	2.11	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:6:LYS:HB3	19:AS:10:LYS:CA	2.11	0.80
19:AS:18:LEU:HB2	19:AS:66:ARG:NH2	1.95	0.80
30:Ad:41:ARG:HB2	30:Ad:41:ARG:NH1	1.96	0.80
33:Ag:308:UNK:C	55:CA:142:ASP:OD2	2.29	0.80
34:BA:9:G:H5'	38:BI:126:ARG:CD	2.10	0.80
34:BA:166:G:O2'	34:BA:167:G:H5'	1.80	0.80
34:BA:541:G:H4'	37:BH:42:GLN:HB2	1.63	0.80
34:BA:1256:A:N1	34:BA:1278:U:O2'	2.13	0.80
34:BA:1309:G:H2'	34:BA:1329:A:C4	2.14	0.80
34:BA:1317:C:C4	34:BA:1318:A:C5	2.69	0.80
34:BA:1499:A:C2	34:BA:1519:A:O2'	2.35	0.80
35:BF:59:GLU:CB	35:BF:221:LEU:HD21	2.09	0.80
36:BG:55:VAL:HG22	36:BG:68:VAL:HG13	1.62	0.80
36:BG:156:ARG:HD2	36:BG:163:ALA:HB2	1.63	0.80
37:BH:127:THR:O	37:BH:146:ILE:HA	1.81	0.80
37:BH:205:GLU:OE2	38:BI:100:VAL:HB	1.81	0.80
38:BI:29:GLY:HA2	38:BI:46:GLY:O	1.80	0.80
38:BI:152:ARG:NH2	41:BL:43:GLY:HA3	1.96	0.80
44:BO:54:ARG:HG3	44:BO:54:ARG:HH11	1.44	0.80
48:BS:75:PRO:CA	48:BS:78:TYR:HB3	2.11	0.80
53:BX:51:GLU:HB3	53:BX:54:LYS:NZ	1.95	0.80
55:CA:311:PHE:N	55:CA:356:PHE:H	1.78	0.80
1:AA:531:C:N4	18:AR:38:THR:HA	1.95	0.80
1:AA:604:G:C6	1:AA:605:C:N4	2.50	0.80
1:AA:776:G:H1'	1:AA:793:A:N1	1.97	0.80
1:AA:1049:C:C5	1:AA:2751:G:O6	2.16	0.80
1:AA:1128:A:N6	1:AA:2518:A:N6	2.14	0.80
1:AA:1184:G:C2'	1:AA:1185:C:H5'	2.12	0.80
1:AA:1341:U:OP2	1:AA:1397:U:N3	2.13	0.80
1:AA:1403:C:H4'	1:AA:1471:A:H5'	1.62	0.80
1:AA:1493:C:H2'	1:AA:1493:C:O2	1.82	0.80
1:AA:1510:A:H2'	1:AA:1511:A:C2	2.15	0.80
1:AA:1826:G:H2'	1:AA:1827:C:H5'	1.61	0.80
1:AA:1964:G:C2	1:AA:1967:C:C5	2.69	0.80
1:AA:2286:A:H1'	29:Ac:37:ARG:NH2	1.96	0.80
1:AA:2756:U:N3	1:AA:2758:A:N6	2.29	0.80
1:AA:2835:A:H1'	1:AA:2836:U:H5	1.46	0.80
2:AB:46:A:H2'	2:AB:47:C:H6	1.41	0.80
9:AI:52:PHE:O	9:AI:86:PRO:CA	2.29	0.80
10:AJ:51:ALA:O	10:AJ:76:TYR:HB3	1.81	0.80
11:AK:42:TRP:O	11:AK:43:THR:HG23	1.81	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:127:ASP:C	11:AK:129:PRO:HD2	2.06	0.80
12:AL:9:GLU:HA	12:AL:17:ARG:O	1.80	0.80
12:AL:18:LYS:CE	12:AL:44:LYS:HD3	2.12	0.80
12:AL:63:VAL:HA	12:AL:78:ARG:HD3	1.64	0.80
13:AM:49:ARG:O	13:AM:52:GLU:HG2	1.82	0.80
19:AS:73:SER:OG	19:AS:89:GLN:HB2	1.80	0.80
22:AV:49:VAL:CG2	22:AV:51:VAL:HB	2.10	0.80
27:Aa:10:VAL:N	27:Aa:11:PRO:HD3	1.96	0.80
34:BA:1151:A:N6	34:BA:1152:A:C5	2.48	0.80
34:BA:1302:U:H5	46:BQ:13:LYS:HZ2	1.30	0.80
34:BA:1318:A:O3'	52:BW:38:SER:CA	2.11	0.80
34:BA:1395:C:OP2	34:BA:1395:C:H3'	1.81	0.80
34:BA:1480:G:O2'	34:BA:1481:U:H5'	1.81	0.80
35:BF:90:MET:SD	35:BF:91:PRO:HD2	2.21	0.80
35:BF:208:ILE:HA	35:BF:211:ILE:HB	1.63	0.80
36:BG:58:GLU:H	36:BG:65:ALA:HB3	1.46	0.80
37:BH:135:LEU:O	37:BH:137:SER:N	2.11	0.80
39:BJ:14:LEU:HD13	39:BJ:18:GLN:HB3	1.63	0.80
40:BK:106:GLN:HA	40:BK:106:GLN:HE21	1.45	0.80
41:BL:14:ARG:HG2	41:BL:18:ARG:HE	1.46	0.80
41:BL:82:HIS:O	41:BL:137:VAL:HG13	1.80	0.80
41:BL:109:ILE:HG12	41:BL:137:VAL:O	1.81	0.80
43:BN:6:ILE:CG2	43:BN:98:ILE:HG13	2.11	0.80
44:BO:84:VAL:HG21	51:BV:88:LYS:CD	2.11	0.80
44:BO:84:VAL:CG2	44:BO:110:ASP:HA	2.11	0.80
45:BP:8:ASN:ND2	45:BP:8:ASN:H	1.77	0.80
50:BU:8:GLY:O	50:BU:56:VAL:HG13	1.80	0.80
55:CA:18:LYS:O	55:CA:21:LEU:HG	1.81	0.80
55:CA:107:PRO:HG2	55:CA:460:SER:O	1.80	0.80
55:CA:307:VAL:HG12	55:CA:366:LEU:CD1	2.11	0.80
55:CA:374:ARG:CD	55:CA:585:ILE:CD1	2.47	0.80
55:CA:382:VAL:CG2	55:CA:569:LEU:CD2	2.59	0.80
1:AA:67:U:H2'	1:AA:68:G:C8	2.16	0.80
1:AA:343:C:H2'	1:AA:344:G:H5'	1.62	0.80
1:AA:663:G:H4'	13:AM:18:ARG:NH2	1.96	0.80
1:AA:825:C:H1'	1:AA:2428:G:N2	1.96	0.80
1:AA:1080:C:C5'	10:AJ:128:ALA:HB3	1.69	0.80
1:AA:1153:C:H2'	1:AA:1154:G:H8	1.45	0.80
1:AA:1302:A:H5''	1:AA:1303:G:OP2	1.79	0.80
1:AA:1418:G:OP1	1:AA:1588:C:H4'	1.82	0.80
1:AA:1950:G:N7	1:AA:1951:U:C5	2.50	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2226:C:H2'	1:AA:2227:A:O4'	1.80	0.80
1:AA:2523:G:H1'	1:AA:2765:A:H62	1.47	0.80
1:AA:2623:G:H5'	1:AA:2826:A:H1'	1.63	0.80
1:AA:2710:C:H2'	1:AA:2711:A:C5'	2.11	0.80
1:AA:2776:A:H4'	1:AA:2777:G:C5'	2.12	0.80
4:AD:7:LYS:HD3	4:AD:9:TYR:HH	1.45	0.80
5:AE:81:ILE:HG22	5:AE:82:ARG:N	1.95	0.80
7:AG:44:GLY:O	7:AG:72:ARG:HB3	1.80	0.80
7:AG:113:ARG:HD3	7:AG:139:LEU:CD2	2.11	0.80
12:AL:59:LYS:N	12:AL:59:LYS:HE2	1.96	0.80
17:AQ:11:GLU:CD	17:AQ:11:GLU:N	2.38	0.80
20:AT:40:ASN:OD1	20:AT:41:LYS:HG3	1.81	0.80
21:AU:12:VAL:HG23	21:AU:28:PHE:CA	2.12	0.80
22:AV:5:MET:SD	22:AV:33:LYS:HE2	2.22	0.80
22:AV:45:VAL:HG12	22:AV:57:GLN:OE1	1.81	0.80
22:AV:75:ILE:HG22	22:AV:100:ALA:CB	2.12	0.80
23:AW:104:PHE:HA	23:AW:139:VAL:O	1.82	0.80
24:AX:5:LYS:CG	24:AX:6:GLY:H	1.82	0.80
34:BA:262:A:H2'	34:BA:263:A:N7	1.97	0.80
34:BA:265:G:H2'	34:BA:267:C:C5	2.14	0.80
34:BA:358:U:H4'	55:CA:217:TYR:HA	1.64	0.80
34:BA:449:C:O2	49:BT:42:ARG:HG2	1.81	0.80
34:BA:607:A:C2	34:BA:608:A:H1'	2.17	0.80
34:BA:888:G:N2	34:BA:909:A:N6	2.24	0.80
34:BA:917:G:O2'	34:BA:918:A:H5'	1.80	0.80
34:BA:1277:C:H4'	34:BA:1282:C:C1'	2.11	0.80
35:BF:221:LEU:HD13	35:BF:221:LEU:C	2.06	0.80
37:BH:26:CYS:HA	37:BH:31:CYS:HB3	1.61	0.80
38:BI:11:ILE:HG22	38:BI:12:LEU:N	1.97	0.80
45:BP:24:VAL:HG22	45:BP:98:TYR:CZ	2.17	0.80
46:BQ:86:CYS:O	52:BW:73:GLU:O	2.00	0.80
50:BU:7:THR:HG23	50:BU:57:VAL:O	1.81	0.80
50:BU:11:VAL:HG23	50:BU:21:VAL:HA	1.63	0.80
55:CA:179:MET:HB2	55:CA:181:GLU:O	1.81	0.80
1:AA:280:C:C4	1:AA:283:A:N7	2.50	0.80
1:AA:1059:G:C2'	10:AJ:74:ALA:N	2.44	0.80
1:AA:1142(A):A:N1	1:AA:1143:A:C8	2.50	0.80
1:AA:2447:G:C5'	1:AA:2500:U:OP2	2.28	0.80
1:AA:2519:U:H5''	1:AA:2520:C:OP1	1.81	0.80
1:AA:2533:A:C1'	1:AA:2664:G:H4'	2.12	0.80
1:AA:2780:G:O2'	1:AA:2781:A:H5''	1.82	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2786:U:O2'	1:AA:2787:C:H5'	1.81	0.80
1:AA:2839:G:H4'	15:AO:49:ASP:OD2	1.81	0.80
1:AA:2877:G:H3'	1:AA:2878:U:C6	2.17	0.80
2:AB:27:C:N4	2:AB:56:G:H1	1.79	0.80
3:AC:73:ARG:HG2	3:AC:92:ASP:OD2	1.82	0.80
4:AD:95:LEU:HD13	4:AD:95:LEU:C	2.06	0.80
4:AD:146:GLU:HB2	4:AD:154:LYS:N	1.97	0.80
4:AD:181:GLU:CB	4:AD:268:ARG:HH21	1.94	0.80
6:AF:89:VAL:CG1	6:AF:90:PHE:H	1.84	0.80
7:AG:60:LEU:O	7:AG:63:ILE:HG22	1.81	0.80
8:AH:99:VAL:CG2	8:AH:104:GLU:HG2	2.11	0.80
15:AO:74:LYS:HZ2	15:AO:74:LYS:HB2	1.47	0.80
17:AQ:53:ARG:CZ	17:AQ:102:ILE:HG12	2.11	0.80
18:AR:38:THR:O	18:AR:41:ALA:HB3	1.81	0.80
19:AS:35:LEU:H	19:AS:61:VAL:HG13	1.45	0.80
22:AV:74:PRO:C	22:AV:76:CYS:H	1.86	0.80
23:AW:152:ALA:CA	23:AW:155:LEU:HD13	2.11	0.80
26:AZ:3:ARG:HH22	26:AZ:59:VAL:CG1	1.95	0.80
28:Ab:34:PRO:HD3	28:Ab:40:LYS:CD	2.12	0.80
31:Ae:20:GLY:O	31:Ae:21:LYS:HG3	1.81	0.80
34:BA:1269:A:H1'	34:BA:1312:G:C2	2.17	0.80
34:BA:1394:A:O2'	34:BA:1395:C:OP1	2.00	0.80
35:BF:84:GLU:CG	35:BF:234:PRO:HD2	2.10	0.80
35:BF:97:TRP:HZ2	35:BF:102:LEU:CD1	1.93	0.80
37:BH:94:LEU:HA	37:BH:97:LEU:HD12	1.64	0.80
51:BV:67:ALA:HA	51:BV:70:ILE:HD12	1.64	0.80
51:BV:74:ARG:HG2	51:BV:74:ARG:NH1	1.94	0.80
55:CA:2:ILE:CG2	55:CA:199:VAL:CB	2.58	0.80
55:CA:6:ARG:HB2	55:CA:69:ARG:C	2.07	0.80
55:CA:11:ILE:HG23	55:CA:112:VAL:HG12	1.61	0.80
55:CA:50:LYS:HD3	55:CA:50:LYS:C	2.07	0.80
55:CA:150:ASN:ND2	55:CA:151:LEU:HD22	1.96	0.80
55:CA:177:GLU:HG2	55:CA:178:ASP:OD2	1.81	0.80
55:CA:512:LEU:HD11	55:CA:524:ILE:HG21	1.64	0.80
1:AA:2:G:N1	1:AA:2902:C:C5	2.50	0.80
1:AA:203:C:H3'	1:AA:204:A:H8	1.47	0.80
1:AA:616:A:H4'	1:AA:617:G:OP1	1.82	0.80
1:AA:935:C:H2'	1:AA:936:C:C6	2.17	0.80
1:AA:1431:U:H2'	1:AA:1432:C:O4'	1.80	0.80
1:AA:1778:U:H2'	1:AA:1779:U:C6	2.15	0.80
1:AA:1992:G:H1'	1:AA:1993:U:H5	1.46	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2114:A:H2'	1:AA:2115:G:H5'	1.64	0.80
4:AD:64:ILE:O	4:AD:65:ILE:HD13	1.82	0.80
4:AD:105:ILE:HD12	4:AD:106:ILE:N	1.97	0.80
6:AF:122:LYS:NZ	6:AF:192:LEU:HB3	1.97	0.80
8:AH:77:LYS:O	8:AH:80:SER:OG	2.00	0.80
10:AJ:23:VAL:CG1	10:AJ:37:PHE:HB2	2.11	0.80
13:AM:45:LEU:HB3	13:AM:46:LYS:HE2	1.62	0.80
14:AN:12:GLN:NE2	14:AN:13:GLN:HE21	1.78	0.80
14:AN:134:ARG:HH11	14:AN:134:ARG:C	1.89	0.80
15:AO:45:ARG:O	15:AO:49:ASP:HB3	1.82	0.80
17:AQ:7:ILE:HG13	17:AQ:8:LYS:N	1.96	0.80
17:AQ:103:ARG:O	17:AQ:104:ASN:C	2.24	0.80
25:AY:5:LEU:O	25:AY:8:ALA:HB3	1.82	0.80
26:AZ:31:LEU:HD12	26:AZ:32:GLN:NE2	1.95	0.80
28:Ab:55:ARG:O	28:Ab:57:VAL:HG22	1.82	0.80
29:Ac:11:LEU:HD13	31:Ae:35:GLN:HE22	1.45	0.80
29:Ac:19:ARG:H	29:Ac:19:ARG:HD3	1.46	0.80
34:BA:232:G:H2'	34:BA:233:C:C5	2.16	0.80
34:BA:474:G:C5'	49:BT:81:ARG:HG3	2.12	0.80
34:BA:1309:G:N2	34:BA:1328:C:C5	2.50	0.80
34:BA:1405:G:C6	34:BA:1497:G:C6	2.69	0.80
35:BF:167:PRO:HG2	35:BF:168:THR:H	1.46	0.80
39:BJ:46:ARG:HH22	51:BV:37:VAL:CG2	1.94	0.80
41:BL:80:ILE:H	41:BL:80:ILE:CD1	1.94	0.80
42:BM:42:ARG:HB3	42:BM:74:ILE:CD1	2.11	0.80
42:BM:50:LEU:HD13	42:BM:56:LEU:HG	1.64	0.80
46:BQ:16:ASP:O	46:BQ:30:ALA:HB1	1.80	0.80
46:BQ:48:LEU:HD13	46:BQ:53:VAL:CG2	2.11	0.80
53:BX:50:GLU:H	53:BX:99:LEU:CD1	1.92	0.80
53:BX:62:LEU:CA	53:BX:65:LYS:HG2	2.12	0.80
1:AA:281:G:N2	1:AA:283:A:H5''	1.96	0.80
1:AA:685:A:O4'	1:AA:688:U:O4	1.99	0.80
1:AA:898:C:H2'	1:AA:899:A:C4'	2.12	0.80
1:AA:1058:G:C2'	10:AJ:116:ASN:ND2	2.44	0.80
1:AA:1252:G:H8	1:AA:1253:A:C1'	1.93	0.80
1:AA:1252:G:H3'	1:AA:1253:A:O4'	1.81	0.80
1:AA:1387:C:H2'	1:AA:1388:G:H8	1.46	0.80
1:AA:1511:A:H2'	1:AA:1512:G:C5'	2.10	0.80
1:AA:1953:A:N3	1:AA:2560:C:H1'	1.97	0.80
1:AA:2123:G:H4'	3:AC:172:HIS:CD2	2.17	0.80
1:AA:2394:C:OP1	13:AM:57:THR:HA	1.81	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2620:C:H4'	5:AE:156:MET:HB3	1.62	0.80
1:AA:2673:G:C2	1:AA:2674:G:C5	2.69	0.80
3:AC:68:LEU:HD23	3:AC:69:GLY:N	1.95	0.80
3:AC:150:GLY:O	3:AC:154:ARG:HB2	1.80	0.80
5:AE:52:LEU:HA	5:AE:74:PRO:CA	2.12	0.80
7:AG:55:LYS:O	7:AG:59:GLU:HG2	1.81	0.80
8:AH:103:LEU:CG	8:AH:105:LEU:HD11	2.12	0.80
10:AJ:14:ALA:HA	10:AJ:48:MET:O	1.82	0.80
11:AK:25:ARG:HA	11:AK:28:THR:CG2	2.11	0.80
11:AK:91:LEU:O	11:AK:95:PRO:HD3	1.82	0.80
11:AK:100:GLU:O	11:AK:103:VAL:HG13	1.82	0.80
12:AL:18:LYS:HE2	12:AL:44:LYS:CD	2.11	0.80
13:AM:38:GLN:C	13:AM:40:SER:N	2.33	0.80
18:AR:98:LEU:CD1	18:AR:105:VAL:HG21	2.12	0.80
31:Ae:22:VAL:CG1	31:Ae:23:VAL:N	2.45	0.80
34:BA:112:G:O2'	34:BA:113:G:H5'	1.81	0.80
34:BA:495:A:H1'	34:BA:496:A:N7	1.97	0.80
34:BA:1239:A:H4'	34:BA:1240:U:C5'	2.11	0.80
34:BA:1486:G:O6	34:BA:1487:G:C6	2.35	0.80
39:BJ:75:LEU:HD22	39:BJ:79:LEU:CD2	2.11	0.80
1:AA:71:A:C4'	1:AA:72:U:H5''	2.11	0.80
1:AA:850:C:O2'	1:AA:851:U:H5'	1.82	0.80
1:AA:901:A:H2'	1:AA:902:C:H5'	1.63	0.80
1:AA:1001:A:H2'	1:AA:1002:G:O4'	1.81	0.80
1:AA:1062:G:N7	1:AA:1063:G:N7	2.29	0.80
1:AA:1183:G:H4'	1:AA:1184:G:O5'	1.82	0.80
1:AA:1265:A:H8	1:AA:1267:U:O4	1.65	0.80
1:AA:1439:A:H2'	1:AA:1440:G:H5'	1.64	0.80
1:AA:1933:G:O6	1:AA:1968:G:N2	2.15	0.80
1:AA:2055:C:H4'	1:AA:2056:G:H5''	1.62	0.80
2:AB:83:G:O2'	2:AB:84:C:H5'	1.82	0.80
3:AC:64:LEU:HD12	3:AC:161:ILE:HG21	1.64	0.80
4:AD:5:LYS:NZ	4:AD:31:LYS:NZ	2.27	0.80
4:AD:177:LEU:HD23	4:AD:177:LEU:H	1.46	0.80
6:AF:157:VAL:HG12	6:AF:176:LEU:HD23	1.63	0.80
11:AK:89:LYS:CE	11:AK:89:LYS:N	2.43	0.80
12:AL:122:LEU:HG	17:AQ:71:GLY:HA3	1.64	0.80
15:AO:98:LEU:HD23	15:AO:99:LYS:HZ1	1.47	0.80
20:AT:17:VAL:CG2	20:AT:76:VAL:HG11	2.12	0.80
27:Aa:5:ILE:CD1	27:Aa:10:VAL:HG23	2.12	0.80
34:BA:82:U:H2'	34:BA:85:U:C5	2.13	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1312:G:C4	34:BA:1326:C:N3	2.50	0.80
34:BA:1507:A:H2'	34:BA:1508:G:O4'	1.81	0.80
35:BF:164:VAL:HG12	35:BF:186:ALA:HB2	1.64	0.80
36:BG:20:SER:HB2	36:BG:40:ARG:NH2	1.95	0.80
37:BH:15:GLU:HG2	37:BH:63:LYS:HB3	1.64	0.80
37:BH:30:LYS:N	37:BH:34:GLU:HB3	1.95	0.80
38:BI:13:ILE:HD12	38:BI:13:ILE:N	1.96	0.80
38:BI:79:GLU:CD	38:BI:79:GLU:H	1.88	0.80
42:BM:47:LEU:HD11	42:BM:56:LEU:HG	1.62	0.80
42:BM:97:LYS:HB3	42:BM:98:PRO:HD3	1.62	0.80
54:BY:6:ARG:HB3	54:BY:15:ARG:HH21	1.46	0.80
55:CA:28:GLN:O	55:CA:60:ASN:CB	2.30	0.80
55:CA:211:GLN:HB2	55:CA:223:ILE:HG21	1.63	0.80
1:AA:917:A:C3'	1:AA:917:A:C8	2.62	0.79
1:AA:1037:G:N2	1:AA:1119:C:H1'	1.97	0.79
1:AA:1046:A:N1	9:AI:9:LEU:N	2.28	0.79
1:AA:1657:C:O5'	1:AA:1657:C:H6	1.66	0.79
1:AA:1710:C:H2'	1:AA:1711:C:C6	2.16	0.79
1:AA:1782:C:N4	1:AA:2587:A:N6	2.30	0.79
1:AA:1889:A:H2'	1:AA:1890:A:C8	2.16	0.79
1:AA:1918:A:O2'	34:BA:1408:A:H5''	1.83	0.79
1:AA:1931:U:H5	1:AA:1932:A:C5	2.01	0.79
4:AD:232:PRO:CG	4:AD:247:ALA:HA	2.12	0.79
10:AJ:12:LEU:HG	10:AJ:57:ILE:CG2	2.11	0.79
10:AJ:75:SER:HB3	10:AJ:130:SER:CA	2.10	0.79
13:AM:113:LYS:HA	13:AM:129:ALA:CB	2.12	0.79
14:AN:25:ASP:HB3	14:AN:102:VAL:N	1.97	0.79
14:AN:34:LEU:HD12	14:AN:67:ARG:NH2	1.97	0.79
16:AP:67:ARG:O	16:AP:71:ARG:HG3	1.82	0.79
25:AY:52:ILE:HA	25:AY:55:LEU:CD2	2.11	0.79
34:BA:280:C:H5''	34:BA:281:G:OP2	1.81	0.79
34:BA:551:U:H2'	34:BA:552:U:C5	2.16	0.79
34:BA:979:C:H2'	34:BA:980:C:H5'	1.65	0.79
34:BA:1161:C:N3	34:BA:1162:C:N4	2.29	0.79
34:BA:1196:U:H5'	34:BA:1197:G:H5'	1.64	0.79
34:BA:1216:G:H5''	47:BR:5:ALA:HB1	1.64	0.79
34:BA:1234:C:H4'	34:BA:1364:U:H1'	1.65	0.79
36:BG:24:ALA:HB1	36:BG:28:GLN:OE1	1.80	0.79
38:BI:121:LYS:HZ2	38:BI:122:GLU:H	0.81	0.79
46:BQ:5:ALA:HB1	46:BQ:67:GLU:CD	2.08	0.79
46:BQ:15:VAL:CG2	46:BQ:34:LEU:HD23	2.11	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:2:ILE:HG21	55:CA:199:VAL:HB	1.62	0.79
55:CA:20:THR:N	55:CA:23:ASP:OD1	2.14	0.79
55:CA:26:LEU:O	55:CA:27:GLN:HG2	1.82	0.79
1:AA:49:A:H1'	1:AA:118:A:N6	1.96	0.79
1:AA:76:C:C2'	1:AA:77:C:H5'	2.12	0.79
1:AA:323:G:H2'	6:AF:170:LEU:CB	2.13	0.79
1:AA:336:C:H2'	1:AA:337:C:H5'	1.62	0.79
1:AA:871:U:H5''	14:AN:9:TYR:CZ	2.16	0.79
1:AA:880:G:N1	1:AA:897:C:O2'	2.01	0.79
1:AA:1069:A:C2	1:AA:1096:A:C5'	2.65	0.79
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.47	0.79
1:AA:1238:G:O2'	1:AA:1239:G:H5'	1.80	0.79
1:AA:1312:U:C2'	1:AA:1313:U:C6	2.65	0.79
1:AA:1846:G:N2	1:AA:1895:C:C2	2.50	0.79
1:AA:2051:A:H4'	5:AE:141:ILE:CD1	2.11	0.79
1:AA:2447:G:C3'	1:AA:2499:C:P	2.70	0.79
1:AA:2876:G:C5'	17:AQ:1:MET:H2	1.94	0.79
3:AC:77:ILE:HD12	3:AC:123:VAL:CG1	2.12	0.79
6:AF:9:ILE:HG21	6:AF:124:LEU:CB	2.12	0.79
6:AF:105:VAL:HA	6:AF:108:LYS:HB2	1.64	0.79
7:AG:41:GLN:NE2	7:AG:155:MET:HA	1.97	0.79
7:AG:131:TYR:CE1	7:AG:157:ILE:O	2.35	0.79
7:AG:148:MET:CG	7:AG:151:ALA:HA	2.07	0.79
13:AM:46:LYS:HB3	13:AM:49:ARG:NH1	1.96	0.79
15:AO:86:ARG:HH11	15:AO:86:ARG:CB	1.94	0.79
16:AP:14:VAL:HG12	16:AP:15:ARG:N	1.96	0.79
22:AV:35:TYR:O	22:AV:64:GLU:CB	2.30	0.79
22:AV:37:VAL:HG12	22:AV:64:GLU:HG2	1.63	0.79
23:AW:28:MET:HA	23:AW:28:MET:CE	2.12	0.79
24:AX:33:ALA:HA	24:AX:61:ALA:O	1.82	0.79
24:AX:50:ASN:O	24:AX:62:LEU:HB3	1.82	0.79
30:Ad:42:LEU:C	30:Ad:44:PRO:HD2	2.08	0.79
34:BA:620:C:H2'	34:BA:621:A:O4'	1.80	0.79
34:BA:727:G:H3'	34:BA:727:G:C8	2.17	0.79
34:BA:1109:C:H2'	34:BA:1110:A:C8	2.16	0.79
34:BA:1113:C:O2'	34:BA:1114:C:H5'	1.81	0.79
34:BA:1178:G:H2'	34:BA:1180:A:OP2	1.82	0.79
34:BA:1347:G:H4'	34:BA:1348:U:O5'	1.82	0.79
34:BA:1520:G:HO2'	34:BA:1521:G:H8	1.30	0.79
35:BF:47:THR:OG1	35:BF:202:PRO:HG2	1.82	0.79
35:BF:101:MET:HA	35:BF:108:ILE:HG13	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:61:LYS:HG3	37:BH:207:TYR:HE1	1.46	0.79
40:BK:106:GLN:HA	40:BK:109:ASN:HD22	1.47	0.79
40:BK:106:GLN:HE21	40:BK:106:GLN:CA	1.95	0.79
42:BM:16:ARG:NE	42:BM:18:PHE:HZ	1.80	0.79
45:BP:84:LEU:HG	45:BP:85:ILE:H	1.48	0.79
49:BT:6:LEU:HD13	49:BT:6:LEU:N	1.96	0.79
52:BW:10:PHE:O	52:BW:41:VAL:CG2	2.30	0.79
53:BX:13:LEU:HB2	53:BX:17:ARG:NH2	1.97	0.79
53:BX:21:LYS:O	53:BX:24:LEU:HB2	1.83	0.79
53:BX:85:MET:HA	53:BX:88:VAL:HG23	1.63	0.79
55:CA:231:VAL:HG11	55:CA:273:ILE:HD13	1.64	0.79
55:CA:240:ILE:HB	55:CA:286:ASP:HA	0.86	0.79
1:AA:120:U:O2	1:AA:120:U:H2'	1.82	0.79
1:AA:244:A:O2'	13:AM:66:GLY:HA2	1.82	0.79
1:AA:312:G:N3	1:AA:312:G:H2'	1.95	0.79
1:AA:917:A:H3'	1:AA:918:A:H5''	1.62	0.79
1:AA:1039:G:O2'	1:AA:1040:C:O5'	1.98	0.79
1:AA:1203:G:N1	1:AA:1241:A:H1'	1.98	0.79
1:AA:1222:C:N4	1:AA:1227:A:H61	1.78	0.79
1:AA:1394:U:H5''	1:AA:1604:C:P	2.22	0.79
1:AA:1472:A:H1'	1:AA:1473:G:N7	1.96	0.79
1:AA:1582:C:H3'	1:AA:1583:A:C5'	2.12	0.79
1:AA:1609:A:C8	1:AA:1616:A:H1'	2.16	0.79
1:AA:1912:A:C6	1:AA:1919:A:C2	2.71	0.79
1:AA:1935:G:C2'	1:AA:1962:C:H42	1.95	0.79
1:AA:2346:A:H62	29:Ac:37:ARG:NH1	1.77	0.79
1:AA:2393:A:H5''	13:AM:56:SER:CA	2.12	0.79
1:AA:2597:G:H5'	4:AD:242:ARG:HG2	1.62	0.79
1:AA:2606:C:H6	1:AA:2606:C:H5'	1.47	0.79
1:AA:2659:G:H1'	1:AA:2663:G:H22	1.44	0.79
1:AA:2687:U:C2	1:AA:2688:U:H6	1.99	0.79
1:AA:2788:C:N3	1:AA:2789:C:N3	2.30	0.79
4:AD:105:ILE:HG13	4:AD:106:ILE:CG1	2.12	0.79
14:AN:26:TYR:HD1	14:AN:27:VAL:N	1.78	0.79
16:AP:60:GLY:O	16:AP:62:LYS:N	2.13	0.79
23:AW:113:ALA:HB1	23:AW:145:GLU:CD	2.07	0.79
24:AX:21:LEU:HG	24:AX:39:ARG:O	1.81	0.79
26:AZ:28:LEU:N	26:AZ:28:LEU:HD23	1.96	0.79
27:Aa:5:ILE:HD12	27:Aa:8:LYS:C	2.08	0.79
32:Af:7:VAL:HG22	32:Af:34:GLN:OE1	1.83	0.79
34:BA:251:G:H22	34:BA:272:C:N4	1.80	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:412:A:O2'	34:BA:413:G:H5''	1.82	0.79
34:BA:655:A:H2'	34:BA:656:C:H6	1.46	0.79
34:BA:947:G:O2'	34:BA:948:C:H5'	1.82	0.79
34:BA:973:G:H1'	43:BN:55:LYS:H	1.47	0.79
34:BA:1037:C:H2'	34:BA:1038:C:H6	1.45	0.79
34:BA:1316:G:C5'	34:BA:1360:A:C5	2.66	0.79
34:BA:1435:G:C2	34:BA:1436:U:O4	2.35	0.79
34:BA:1459:C:H2'	34:BA:1460:A:C8	2.16	0.79
38:BI:12:LEU:HG	38:BI:129:ILE:CD1	2.12	0.79
38:BI:91:LEU:HD23	38:BI:91:LEU:O	1.80	0.79
39:BJ:80:ARG:HG2	39:BJ:88:VAL:HG21	1.62	0.79
41:BL:18:ARG:HH11	41:BL:18:ARG:CG	1.95	0.79
41:BL:68:ARG:HD3	41:BL:69:ARG:N	1.96	0.79
49:BT:67:THR:O	49:BT:70:ALA:HB3	1.82	0.79
55:CA:8:ILE:O	55:CA:72:ILE:O	2.00	0.79
1:AA:8:A:H5''	11:AK:51:PHE:CE2	2.18	0.79
1:AA:185:U:N3	1:AA:212:G:N2	2.30	0.79
1:AA:562:U:O2	1:AA:572:A:H1'	1.81	0.79
1:AA:609:A:C6	1:AA:609(A):G:O6	2.35	0.79
1:AA:647:G:H2'	1:AA:648:G:H8	1.45	0.79
1:AA:1638:C:H5''	1:AA:2710:C:H1'	1.63	0.79
1:AA:1638:C:C5'	1:AA:2710:C:H1'	2.12	0.79
1:AA:1670:C:H2'	1:AA:1671:U:O4'	1.82	0.79
1:AA:1685:C:O2'	1:AA:1686:C:H5'	1.83	0.79
1:AA:1955:U:H3	1:AA:2552:U:HO2'	1.27	0.79
1:AA:2305:A:C8	1:AA:2306:C:H5''	2.17	0.79
5:AE:60:ASN:HA	5:AE:63:LEU:HD12	1.64	0.79
5:AE:104:VAL:CG1	5:AE:197:ILE:O	2.30	0.79
5:AE:137:HIS:HB2	5:AE:138:PRO:HD2	1.64	0.79
5:AE:200:GLU:HB3	5:AE:202:LYS:NZ	1.97	0.79
7:AG:1:MET:HB3	7:AG:2:PRO:CD	2.12	0.79
7:AG:78:SER:HB2	7:AG:82:LEU:HB2	1.65	0.79
7:AG:107:LEU:HD12	7:AG:111:LEU:HD13	1.64	0.79
7:AG:125:PHE:HB2	7:AG:131:TYR:O	1.82	0.79
8:AH:101:ARG:HD3	8:AH:117:PRO:HG3	1.64	0.79
9:AI:116:ILE:O	9:AI:123:GLU:N	2.13	0.79
10:AJ:12:LEU:HD11	10:AJ:41:PHE:CZ	2.14	0.79
13:AM:49:ARG:HG2	13:AM:49:ARG:HH11	1.48	0.79
13:AM:81:GLN:HB3	13:AM:86:LYS:HG3	1.64	0.79
14:AN:130:LYS:HE3	14:AN:131:ILE:N	1.98	0.79
19:AS:81:TYR:O	19:AS:82:ARG:HB2	1.80	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:90:ARG:H	20:AT:90:ARG:HH11	1.27	0.79
21:AU:16:LYS:H	21:AU:16:LYS:HE2	1.44	0.79
26:AZ:23:LEU:O	26:AZ:28:LEU:HG	1.81	0.79
28:Ab:17:ASP:O	28:Ab:18:ALA:C	2.25	0.79
34:BA:290:C:O5'	34:BA:290:C:H6	1.66	0.79
34:BA:619:U:O2	37:BH:135:LEU:HD11	1.82	0.79
34:BA:674:G:H2'	34:BA:675:A:C8	2.17	0.79
34:BA:1074:G:H4'	35:BF:103:THR:O	1.83	0.79
34:BA:1206:G:H2'	34:BA:1207:G:O4'	1.82	0.79
34:BA:1270:C:O2'	34:BA:1313:U:H5''	1.82	0.79
34:BA:1317:C:C5	34:BA:1318:A:C5	2.70	0.79
34:BA:1436:U:H2'	34:BA:1437:C:C6	2.16	0.79
34:BA:1519:A:H2'	34:BA:1520:G:H5'	1.65	0.79
35:BF:53:ARG:HH12	35:BF:200:ILE:HD12	1.47	0.79
35:BF:95:GLN:CG	35:BF:148:TYR:HB3	2.13	0.79
37:BH:88:VAL:HG22	38:BI:97:GLY:N	1.96	0.79
51:BV:70:ILE:O	51:BV:74:ARG:HD2	1.81	0.79
55:CA:6:ARG:N	55:CA:69:ARG:CB	2.36	0.79
55:CA:398:GLU:OE1	55:CA:444:PRO:CB	2.31	0.79
55:CA:505:GLN:HB3	55:CA:510:LEU:CD1	2.13	0.79
1:AA:205:G:O2'	1:AA:206:U:P	2.40	0.79
1:AA:568:U:H2'	1:AA:570:G:C8	2.18	0.79
1:AA:832:G:P	13:AM:35:HIS:HB2	2.23	0.79
1:AA:930:U:O5'	1:AA:930:U:C6	2.35	0.79
1:AA:963:U:H1'	1:AA:2250:G:H21	1.44	0.79
1:AA:1048:A:C6	1:AA:1112:G:O2'	2.35	0.79
1:AA:1058:G:N2	1:AA:1059:G:C8	2.51	0.79
1:AA:1087:G:H2'	1:AA:1089:G:C4'	2.11	0.79
1:AA:1222:C:C4	1:AA:1223:C:H5	1.99	0.79
1:AA:1772:G:C2'	1:AA:1773:A:H4'	2.11	0.79
1:AA:1937:A:N6	1:AA:1939:U:C5	2.50	0.79
1:AA:2014:A:N3	1:AA:2015:A:N1	2.31	0.79
1:AA:2308:G:H4'	1:AA:2308:G:OP1	1.82	0.79
1:AA:2666:C:H2'	1:AA:2667:C:H5''	1.65	0.79
2:AB:73:A:H2'	2:AB:74:U:H6	1.48	0.79
6:AF:201:VAL:HG12	6:AF:205:ARG:NE	1.96	0.79
7:AG:12:TYR:HA	7:AG:15:VAL:HG22	1.65	0.79
7:AG:30:GLU:HA	7:AG:33:ARG:HG2	1.63	0.79
7:AG:131:TYR:CZ	7:AG:157:ILE:O	2.34	0.79
8:AH:7:LEU:HD13	8:AH:65:HIS:NE2	1.97	0.79
10:AJ:27:LEU:HB3	10:AJ:59:ILE:HG23	1.63	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:122:LEU:N	17:AQ:70:VAL:O	2.15	0.79
23:AW:153:SER:HB3	23:AW:168:GLU:HB2	1.65	0.79
24:AX:72:ARG:HG3	24:AX:78:TYR:HB2	1.63	0.79
26:AZ:55:ARG:CZ	26:AZ:55:ARG:HA	2.13	0.79
28:Ab:51:TYR:HB3	28:Ab:55:ARG:CA	2.12	0.79
34:BA:11:G:H2'	34:BA:12:U:O4'	1.82	0.79
34:BA:50:A:H5''	34:BA:51:A:C5'	2.06	0.79
34:BA:692:U:H1'	34:BA:694:A:C8	2.17	0.79
34:BA:731:G:H2'	34:BA:732:C:C6	2.18	0.79
34:BA:1035:A:H2'	34:BA:1036:G:H5'	1.63	0.79
34:BA:1225:A:H4'	52:BW:78:ARG:HB2	1.62	0.79
34:BA:1307:U:OP1	46:BQ:101:GLN:NE2	2.15	0.79
34:BA:1486:G:C2'	34:BA:1487:G:C5'	2.57	0.79
35:BF:47:THR:HG23	35:BF:202:PRO:HD2	1.63	0.79
35:BF:60:ASP:HB3	35:BF:64:ARG:HH12	1.47	0.79
35:BF:78:GLN:NE2	35:BF:96:ARG:HH22	1.79	0.79
37:BH:25:ARG:C	37:BH:27:TYR:H	1.89	0.79
40:BK:45:ASP:HA	40:BK:48:LYS:HZ3	1.45	0.79
45:BP:41:ARG:HB3	45:BP:41:ARG:NH1	1.97	0.79
46:BQ:19:LEU:HB2	46:BQ:25:ILE:CG2	2.12	0.79
53:BX:19:SER:O	53:BX:23:ARG:HB3	1.81	0.79
55:CA:22:VAL:CG1	55:CA:56:ILE:HG12	2.12	0.79
55:CA:88:VAL:O	55:CA:92:VAL:HG22	1.83	0.79
55:CA:403:VAL:HB	55:CA:465:LEU:HB2	1.63	0.79
1:AA:883:G:HO2'	1:AA:892:G:N2	1.76	0.79
1:AA:2072:G:C4	1:AA:2073:C:C5	2.70	0.79
1:AA:2187:G:H2'	1:AA:2188:C:H6	1.47	0.79
1:AA:2481:G:O2'	1:AA:2482:G:H5'	1.82	0.79
1:AA:2484:G:H1'	14:AN:124:LYS:NZ	1.98	0.79
3:AC:30:LYS:HG2	3:AC:178:ALA:O	1.81	0.79
3:AC:71:GLN:CD	3:AC:72:VAL:HG23	2.07	0.79
4:AD:77:ALA:HB1	4:AD:95:LEU:CD2	2.12	0.79
4:AD:121:PRO:C	4:AD:135:PHE:HE2	1.89	0.79
4:AD:133:LEU:O	4:AD:135:PHE:N	2.14	0.79
4:AD:177:LEU:HD23	4:AD:181:GLU:O	1.81	0.79
5:AE:5:LEU:HD11	5:AE:196:VAL:HG12	1.63	0.79
5:AE:119:ARG:NE	5:AE:155:LYS:HB3	1.97	0.79
5:AE:169:ASN:ND2	5:AE:170:LEU:H	1.80	0.79
6:AF:36:VAL:HG11	6:AF:183:VAL:HB	1.65	0.79
6:AF:153:SER:HA	6:AF:172:TRP:O	1.81	0.79
8:AH:103:LEU:HG	8:AH:105:LEU:HD11	1.62	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:108:ALA:N	10:AJ:109:LYS:HB2	1.96	0.79
13:AM:7:ARG:CD	13:AM:8:PRO:HD3	2.12	0.79
13:AM:46:LYS:HD2	13:AM:46:LYS:O	1.83	0.79
14:AN:101:ARG:HG3	14:AN:101:ARG:NH1	1.93	0.79
15:AO:44:LEU:CD1	15:AO:48:VAL:HG21	2.13	0.79
15:AO:99:LYS:HA	15:AO:112:ALA:HB2	1.63	0.79
16:AP:67:ARG:HG2	16:AP:67:ARG:HH11	1.47	0.79
18:AR:57:PHE:CA	18:AR:60:LEU:HG	2.12	0.79
19:AS:35:LEU:C	19:AS:61:VAL:HG22	2.07	0.79
20:AT:3:ALA:HB3	20:AT:107:LEU:HB3	1.62	0.79
21:AU:47:PHE:CE2	21:AU:89:ILE:HA	2.14	0.79
33:Ag:308:UNK:HA	55:CA:142:ASP:CG	2.07	0.79
34:BA:130:A:C5	34:BA:264:U:H1'	2.18	0.79
34:BA:279:A:H1'	34:BA:281:G:C4	2.17	0.79
34:BA:892:A:HO2'	34:BA:1415:G:HO2'	1.29	0.79
34:BA:1014:A:C1'	52:BW:34:TRP:HH2	1.81	0.79
34:BA:1240:U:H2'	40:BK:32:ARG:HH21	1.46	0.79
35:BF:10:LEU:HD23	35:BF:11:LEU:CD2	2.11	0.79
35:BF:15:VAL:HG11	35:BF:209:ARG:HB3	1.65	0.79
35:BF:67:THR:HB	35:BF:155:LEU:HD21	1.65	0.79
42:BM:10:ARG:HA	42:BM:104:ARG:NE	1.98	0.79
44:BO:73:MET:HE2	44:BO:103:LEU:HD22	1.64	0.79
46:BQ:91:ARG:HD2	46:BQ:98:VAL:O	1.81	0.79
46:BQ:97:PRO:HG2	46:BQ:101:GLN:HG3	1.63	0.79
48:BS:32:LEU:O	48:BS:36:ILE:HB	1.83	0.79
49:BT:8:ARG:HH12	49:BT:11:SER:H	1.30	0.79
51:BV:46:GLU:H	51:BV:49:LYS:HZ1	1.27	0.79
51:BV:55:ARG:HB3	51:BV:55:ARG:NH1	1.96	0.79
51:BV:74:ARG:HA	51:BV:79:LEU:HD11	1.65	0.79
55:CA:287:THR:HB	55:CA:297:LEU:CG	2.12	0.79
55:CA:491:ASN:CG	55:CA:536:ASN:HB2	2.07	0.79
1:AA:125:G:H22	30:Ad:10:ARG:HA	1.46	0.79
1:AA:174:C:H2'	1:AA:175:G:H5'	1.62	0.79
1:AA:209:C:H2'	1:AA:210:C:H5'	1.65	0.79
1:AA:781:A:C1'	4:AD:222:ARG:HH12	1.92	0.79
1:AA:975:G:N1	1:AA:976:C:C6	2.50	0.79
1:AA:996:A:H2'	1:AA:997:G:C8	2.18	0.79
1:AA:1113:U:O5'	1:AA:1113:U:H6	1.65	0.79
1:AA:1224:G:H2'	19:AS:87:HIS:CE1	2.18	0.79
1:AA:1270:C:H1'	1:AA:1325:G:C5	2.17	0.79
1:AA:1496:A:C2	1:AA:1498:C:N4	2.50	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1509:C:OP1	1:AA:1510:A:H8	1.66	0.79
1:AA:2046:G:H5''	28:Ab:19:ARG:HA	1.63	0.79
1:AA:2467:C:O2'	14:AN:120:ILE:HG23	1.83	0.79
1:AA:2507:C:O3'	1:AA:2573:C:N4	2.15	0.79
1:AA:2597:G:C5'	4:AD:242:ARG:HE	1.94	0.79
1:AA:2828:C:C2	1:AA:2829:C:C5	2.71	0.79
1:AA:2848:G:C8	17:AQ:99:LEU:CD1	2.66	0.79
2:AB:31:C:C2	2:AB:32:C:H5	2.01	0.79
4:AD:131:LEU:HG	4:AD:135:PHE:CD2	2.18	0.79
5:AE:98:PRO:HD3	5:AE:175:VAL:HG11	1.65	0.79
6:AF:42:ALA:O	6:AF:45:ARG:HB2	1.82	0.79
7:AG:26:GLN:NE2	7:AG:31:VAL:HG21	1.96	0.79
10:AJ:117:THR:O	10:AJ:118:THR:OG1	2.00	0.79
11:AK:58:ASP:CG	11:AK:59:LYS:HG3	2.08	0.79
16:AP:26:LEU:HD22	16:AP:27:SER:N	1.98	0.79
22:AV:37:VAL:O	22:AV:39:VAL:HG23	1.82	0.79
23:AW:18:LEU:HB3	23:AW:23:LYS:O	1.83	0.79
29:Ac:26:ASN:O	29:Ac:27:LYS:CB	2.30	0.79
34:BA:600:C:O2'	34:BA:601:C:H5'	1.83	0.79
34:BA:1154:G:H2'	34:BA:1155:G:C8	2.16	0.79
34:BA:1155:G:N2	34:BA:1179:A:N6	2.30	0.79
34:BA:1224:G:H1	34:BA:1362(A):C:N4	1.80	0.79
34:BA:1389:C:C2'	34:BA:1390:U:H5'	2.13	0.79
34:BA:1449:C:N4	34:BA:1454:G:C6	2.50	0.79
40:BK:5:ARG:HB3	40:BK:5:ARG:NH1	1.97	0.79
45:BP:35:GLY:O	45:BP:82:VAL:HG13	1.82	0.79
45:BP:60:LEU:HD22	45:BP:60:LEU:C	2.07	0.79
45:BP:84:LEU:HB3	45:BP:104:VAL:CG1	2.10	0.79
49:BT:73:LEU:HD13	49:BT:73:LEU:C	2.07	0.79
54:BY:24:ARG:O	54:BY:25:LYS:HB2	1.83	0.79
1:AA:261:G:O2'	1:AA:262:A:H5'	1.83	0.79
1:AA:448:U:O4	1:AA:583:G:H1'	1.82	0.79
1:AA:618:G:OP1	6:AF:106:ARG:HD2	1.83	0.79
1:AA:718:A:H5''	1:AA:719:C:C5	2.17	0.79
1:AA:781:A:H2	1:AA:1776:G:N3	1.81	0.79
1:AA:804:A:H5''	1:AA:805:G:OP1	1.82	0.79
1:AA:1022:G:N2	1:AA:1023:U:O4	2.14	0.79
1:AA:1046:A:H1'	9:AI:11:ALA:HB2	1.64	0.79
1:AA:1214:A:H2'	1:AA:1215:G:C8	2.17	0.79
1:AA:1359:A:H62	1:AA:1371:G:N2	1.81	0.79
1:AA:1527:G:H3'	1:AA:1527:G:C8	2.17	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2051:A:OP2	1:AA:2051:A:O4'	2.01	0.79
1:AA:2333:A:H1'	1:AA:2335:A:C4	2.16	0.79
1:AA:2419:U:H5'	29:Ac:23:THR:HG21	1.65	0.79
3:AC:22:ILE:O	3:AC:25:ALA:HB3	1.83	0.79
5:AE:110:GLY:HA2	5:AE:161:GLY:C	2.07	0.79
5:AE:116:VAL:O	5:AE:120:TRP:CD1	2.36	0.79
5:AE:196:VAL:CG1	5:AE:197:ILE:N	2.44	0.79
6:AF:154:VAL:HB	6:AF:193:VAL:HG23	1.63	0.79
8:AH:107:VAL:HG22	8:AH:107:VAL:O	1.82	0.79
10:AJ:105:LEU:CA	10:AJ:123:ALA:HB1	2.12	0.79
11:AK:99:LEU:HD21	11:AK:122:VAL:HG21	1.63	0.79
12:AL:16:ALA:HB3	12:AL:45:GLU:HB2	1.64	0.79
12:AL:16:ALA:C	12:AL:18:LYS:H	1.91	0.79
13:AM:122:PRO:HB2	13:AM:138:LEU:HB2	1.65	0.79
14:AN:37:LEU:HD11	14:AN:130:LYS:HB2	1.65	0.79
14:AN:42:ILE:CD1	14:AN:47:ILE:HG13	2.10	0.79
16:AP:49:VAL:HG13	16:AP:76:LYS:CE	2.12	0.79
21:AU:49:VAL:HG12	21:AU:88:LYS:HG3	1.65	0.79
22:AV:12:THR:C	22:AV:73:ARG:CZ	2.56	0.79
23:AW:53:ILE:O	23:AW:54:HIS:ND1	2.16	0.79
23:AW:78:LYS:HG3	23:AW:79:ARG:H	1.48	0.79
24:AX:19:LYS:NZ	24:AX:41:ARG:HE	1.81	0.79
28:Ab:15:ARG:HG3	28:Ab:16:ARG:N	1.95	0.79
34:BA:313:A:H2'	34:BA:314:C:C5	2.17	0.79
34:BA:477:G:H2'	34:BA:478:A:C8	2.16	0.79
34:BA:558:G:H2'	34:BA:559:A:H2	1.45	0.79
34:BA:657:G:C2'	34:BA:658:G:H5'	2.13	0.79
34:BA:1114:C:H1'	34:BA:1187:G:N2	1.97	0.79
34:BA:1144:G:H22	34:BA:1146:A:H62	1.29	0.79
37:BH:78:LEU:HD13	37:BH:96:LEU:HB3	1.65	0.79
39:BJ:53:ALA:HB1	39:BJ:86:ARG:NH1	1.98	0.79
43:BN:30:SER:CB	43:BN:80:LYS:HG3	2.12	0.79
48:BS:31:LEU:HA	48:BS:34:LEU:HD23	1.65	0.79
49:BT:6:LEU:HD23	49:BT:17:TYR:CD2	2.17	0.79
49:BT:31:LYS:HB3	49:BT:31:LYS:NZ	1.98	0.79
50:BU:19:VAL:CG2	50:BU:46:ASP:HB2	2.13	0.79
51:BV:67:ALA:HA	51:BV:70:ILE:CD1	2.13	0.79
55:CA:11:ILE:HD13	55:CA:95:VAL:HB	1.63	0.79
55:CA:102:PHE:CB	55:CA:135:ALA:HB2	2.13	0.79
1:AA:190:A:H2'	1:AA:191:A:H8	1.48	0.79
1:AA:269:U:C5'	1:AA:270(Y):G:H2'	2.09	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:359:A:O2'	1:AA:360:G:N7	2.15	0.79
1:AA:531:C:C6	1:AA:532:A:N3	2.50	0.79
1:AA:819:A:H2'	1:AA:820:A:C8	2.17	0.79
1:AA:865:C:N4	1:AA:909:A:H62	1.81	0.79
1:AA:1048:A:C2	1:AA:1112:G:O2'	2.36	0.79
1:AA:1352:U:H1'	1:AA:1570:A:H2	1.46	0.79
1:AA:1566:A:H2'	1:AA:1567:A:H5'	1.64	0.79
1:AA:1943:U:C2	1:AA:1945:G:H5''	2.17	0.79
1:AA:2127:G:H5'	3:AC:36:LYS:HG2	1.64	0.79
1:AA:2135:A:H4'	1:AA:2136:C:H5	1.43	0.79
1:AA:2261:C:OP2	24:AX:17:GLN:HB2	1.81	0.79
1:AA:2771:C:H2'	1:AA:2772:C:C6	2.17	0.79
1:AA:2815:C:H4'	28:Ab:42:PRO:HG3	1.65	0.79
1:AA:2832:U:H1'	1:AA:2834:G:C2	2.18	0.79
2:AB:82:G:H2'	2:AB:83:G:H8	1.46	0.79
3:AC:64:LEU:HB3	3:AC:188:ASN:ND2	1.97	0.79
5:AE:113:PHE:HA	5:AE:158:GLY:C	2.08	0.79
5:AE:176:ILE:HG22	5:AE:181:LEU:O	1.83	0.79
5:AE:199:ARG:HD2	5:AE:199:ARG:N	1.98	0.79
7:AG:61:ALA:HB2	7:AG:67:LYS:HE2	1.64	0.79
7:AG:119:GLY:C	7:AG:120:LEU:HD23	2.08	0.79
8:AH:169:VAL:O	8:AH:171:LEU:HG	1.82	0.79
10:AJ:19:PRO:CG	10:AJ:38:VAL:N	2.42	0.79
11:AK:16:ILE:HD11	11:AK:52:VAL:CG2	2.09	0.79
13:AM:72:PRO:HG3	13:AM:110:TYR:CE1	2.18	0.79
15:AO:61:HIS:ND1	15:AO:64:ARG:CZ	2.46	0.79
15:AO:73:VAL:HG23	15:AO:74:LYS:H	1.47	0.79
16:AP:92:TYR:CZ	16:AP:93:LYS:HB3	2.18	0.79
17:AQ:53:ARG:HH22	17:AQ:102:ILE:H	1.31	0.79
22:AV:35:TYR:O	22:AV:64:GLU:HB3	1.82	0.79
23:AW:37:VAL:O	23:AW:38:TYR:HD1	1.64	0.79
28:Ab:11:THR:HG23	28:Ab:15:ARG:CB	2.13	0.79
31:Ae:61:LEU:O	31:Ae:62:LEU:HB2	1.82	0.79
32:Af:10:ILE:HD12	32:Af:10:ILE:N	1.97	0.79
34:BA:375:U:H4'	49:BT:17:TYR:CE2	2.17	0.79
34:BA:404:U:C4'	37:BH:122:ARG:HH11	1.96	0.79
34:BA:520:A:H3'	34:BA:521:G:H5''	1.64	0.79
34:BA:751:U:H2'	34:BA:752:G:O4'	1.82	0.79
34:BA:1112:C:H1'	36:BG:179:ARG:HH22	1.45	0.79
34:BA:1521:G:H2'	34:BA:1522:U:C6	2.18	0.79
37:BH:12:CYS:CA	37:BH:19:LEU:HB2	2.13	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:43:LEU:N	38:BI:65:ASN:HD22	1.81	0.79
40:BK:75:VAL:HG13	40:BK:87:VAL:O	1.82	0.79
40:BK:126:ASP:HB3	40:BK:131:LYS:O	1.83	0.79
42:BM:27:THR:HB	42:BM:62:TYR:CD1	2.17	0.79
42:BM:117:HIS:O	42:BM:119:ALA:N	2.12	0.79
43:BN:50:ILE:HA	43:BN:60:ARG:CG	2.11	0.79
45:BP:33:ARG:O	45:BP:84:LEU:HG	1.82	0.79
45:BP:126:LYS:NZ	45:BP:128:ALA:H	1.80	0.79
46:BQ:96:LEU:HB2	46:BQ:97:PRO:CD	2.13	0.79
50:BU:66:SER:HB2	50:BU:69:LYS:HZ3	1.48	0.79
55:CA:8:ILE:CD1	55:CA:96:LEU:HD12	2.13	0.79
55:CA:209:ILE:HD13	55:CA:288:VAL:HG21	1.64	0.79
55:CA:406:ASP:HA	55:CA:407:VAL:CB	2.08	0.79
1:AA:281:G:N3	1:AA:281:G:H2'	1.99	0.79
1:AA:536:A:H2'	1:AA:537:C:O4'	1.83	0.79
1:AA:892:G:C2	1:AA:893:C:N3	2.50	0.79
1:AA:893:C:O2'	1:AA:894:C:H5'	1.83	0.79
1:AA:987:G:OP1	26:AZ:13:ILE:HG21	1.81	0.79
1:AA:1033:U:H5'	32:Af:16:VAL:HG21	1.64	0.79
1:AA:1064:C:C4	1:AA:1065:U:C2	2.70	0.79
1:AA:1419:A:H3'	1:AA:1420:U:C2	2.18	0.79
1:AA:1759:A:H5'	1:AA:2715:C:O4'	1.82	0.79
1:AA:1926:U:H3	1:AA:1929:G:H22	1.31	0.79
1:AA:1993:U:C6	1:AA:1994:C:H5	2.01	0.79
1:AA:2185:C:H2'	1:AA:2186:G:C8	2.17	0.79
1:AA:2262:U:H4'	1:AA:2328:A:C2	2.17	0.79
1:AA:2291:U:OP1	1:AA:2381:C:H5'	1.83	0.79
1:AA:2383:G:OP2	31:Ae:39:LYS:HD3	1.82	0.79
1:AA:2581:G:C6	1:AA:2610:C:H2'	2.18	0.79
1:AA:2747:G:O2'	8:AH:67:LEU:HD13	1.82	0.79
2:AB:17:C:H2'	2:AB:18:G:O4'	1.83	0.79
4:AD:76:PRO:HA	4:AD:118:VAL:HG22	1.65	0.79
8:AH:40:GLU:HB2	8:AH:55:PRO:HG3	1.64	0.79
9:AI:54:ALA:HB2	9:AI:84:GLU:N	1.79	0.79
11:AK:100:GLU:HA	11:AK:100:GLU:OE1	1.82	0.79
13:AM:16:ARG:HD3	13:AM:19:VAL:HG22	1.62	0.79
14:AN:67:ARG:CZ	14:AN:103:MET:CB	2.54	0.79
22:AV:82:PRO:HG3	22:AV:97:ARG:N	1.98	0.79
23:AW:161:VAL:HG12	23:AW:162:GLU:H	1.48	0.79
26:AZ:50:VAL:HG13	26:AZ:53:LEU:CD1	2.11	0.79
27:Aa:23:GLU:C	27:Aa:25:TYR:H	1.91	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ab:37:LYS:O	28:Ab:38:ALA:O	2.00	0.79
31:Ae:30:ARG:NE	31:Ae:44:LYS:HB2	1.96	0.79
34:BA:174:C:C2	34:BA:175:C:C5	2.71	0.79
34:BA:552:U:O2'	34:BA:553:A:H5'	1.82	0.79
34:BA:722:A:H2'	34:BA:724:G:H8	1.45	0.79
34:BA:907:A:H2'	34:BA:908:A:C8	2.17	0.79
34:BA:944:G:H3'	34:BA:945:G:H5''	1.63	0.79
34:BA:1312:G:O6	34:BA:1326:C:C4	2.36	0.79
34:BA:1378:C:H2'	34:BA:1378:C:O2	1.82	0.79
36:BG:10:PHE:HD1	36:BG:178:LEU:HD22	1.44	0.79
37:BH:141:ARG:CD	37:BH:142:PRO:HD2	2.12	0.79
37:BH:173:TRP:CD1	37:BH:189:PRO:HB3	2.18	0.79
38:BI:153:LYS:HG2	38:BI:154:GLY:H	1.48	0.79
40:BK:104:LEU:HD23	40:BK:134:ALA:CB	2.13	0.79
41:BL:109:ILE:HD11	41:BL:137:VAL:HB	1.64	0.79
46:BQ:36:LYS:HD3	46:BQ:59:TYR:CE2	2.18	0.79
49:BT:3:LYS:HB3	49:BT:3:LYS:HZ2	1.48	0.79
50:BU:59:ILE:HD12	50:BU:60:ILE:N	1.98	0.79
53:BX:11:SER:HA	53:BX:13:LEU:CD1	2.11	0.79
55:CA:5:LEU:CG	55:CA:269:GLU:HG3	1.72	0.79
55:CA:208:GLN:HG3	55:CA:297:LEU:HD11	1.62	0.79
55:CA:370:ILE:HB	55:CA:565:LEU:CD2	2.11	0.79
1:AA:274:G:H3'	1:AA:274:G:N3	1.98	0.78
1:AA:397:G:P	27:Aa:41:PRO:HG3	2.23	0.78
1:AA:578:A:H2	18:AR:34:LYS:HZ1	1.28	0.78
1:AA:641:C:C2'	1:AA:642:G:H5'	2.12	0.78
1:AA:728:G:C6	1:AA:762:U:H2'	2.17	0.78
1:AA:747:U:O2'	1:AA:748:G:OP1	2.01	0.78
1:AA:997:G:C8	1:AA:997:G:OP2	2.35	0.78
1:AA:1206:G:C2'	1:AA:1207:C:O4'	2.29	0.78
1:AA:1259:G:H2'	1:AA:1260:G:C8	2.16	0.78
1:AA:1592:C:H2'	1:AA:1593:G:H8	1.47	0.78
1:AA:1779:U:C2'	1:AA:1783:A:H62	1.95	0.78
1:AA:2129:C:OP1	3:AC:6:ARG:HG3	1.83	0.78
1:AA:2457:U:H2'	1:AA:2458:G:O4'	1.83	0.78
1:AA:2660:A:C2	55:CA:456:MET:CA	2.66	0.78
2:AB:68:C:H3'	2:AB:69:G:H8	1.48	0.78
4:AD:90:ALA:HA	4:AD:91:ARG:NH1	1.98	0.78
4:AD:232:PRO:HD2	4:AD:247:ALA:HA	1.65	0.78
5:AE:8:LYS:CG	17:AQ:6:LEU:HD11	2.13	0.78
5:AE:84:PHE:C	5:AE:85:ASN:HD22	1.90	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:174:ASP:O	5:AE:182:LEU:HG	1.82	0.78
5:AE:197:ILE:HD12	5:AE:197:ILE:H	1.47	0.78
7:AG:79:ASN:CG	7:AG:82:LEU:HG	2.07	0.78
10:AJ:12:LEU:HB3	10:AJ:13:PRO:CD	2.13	0.78
10:AJ:37:PHE:CE1	10:AJ:63:ARG:HD3	2.18	0.78
11:AK:42:TRP:NE1	18:AR:64:ARG:HG2	1.98	0.78
11:AK:93:THR:HG22	11:AK:94:HIS:CD2	2.18	0.78
12:AL:121:VAL:HG13	17:AQ:68:TYR:OH	1.82	0.78
15:AO:33:ARG:HA	15:AO:115:GLU:HB3	1.64	0.78
16:AP:23:ARG:HH21	16:AP:42:ASP:HB3	1.48	0.78
17:AQ:95:ARG:HH11	17:AQ:95:ARG:HB3	1.46	0.78
18:AR:55:ARG:HD2	18:AR:55:ARG:H	1.46	0.78
25:AY:14:VAL:HA	25:AY:17:GLU:CD	2.07	0.78
25:AY:25:ARG:HG3	25:AY:25:ARG:HH11	1.48	0.78
31:Ae:4:MET:CE	31:Ae:62:LEU:HG	2.13	0.78
31:Ae:49:VAL:O	31:Ae:53:PRO:HG3	1.82	0.78
31:Ae:53:PRO:HA	31:Ae:56:GLU:CD	2.07	0.78
34:BA:795:C:H4'	34:BA:1506:U:O2	1.83	0.78
35:BF:102:LEU:HD22	35:BF:176:GLU:CB	2.13	0.78
35:BF:208:ILE:HG21	35:BF:239:VAL:HG11	1.65	0.78
36:BG:152:ILE:HG22	36:BG:167:TRP:CB	2.13	0.78
36:BG:205:GLY:O	36:BG:206:GLU:HB2	1.82	0.78
39:BJ:78:GLU:O	39:BJ:81:ILE:HB	1.83	0.78
42:BM:37:PHE:HE1	42:BM:74:ILE:HG23	1.47	0.78
42:BM:40:LEU:C	42:BM:42:ARG:H	1.90	0.78
43:BN:24:VAL:HG22	43:BN:34:VAL:HG11	1.65	0.78
46:BQ:16:ASP:CB	46:BQ:34:LEU:HD11	1.80	0.78
46:BQ:64:TRP:NE1	46:BQ:66:LEU:HD22	1.98	0.78
52:BW:41:VAL:CB	52:BW:42:PRO:HD2	2.11	0.78
54:BY:14:TRP:CZ3	54:BY:15:ARG:CZ	2.67	0.78
55:CA:233:PRO:O	55:CA:235:GLN:HB2	1.82	0.78
55:CA:398:GLU:OE2	55:CA:444:PRO:HB2	1.82	0.78
1:AA:72:U:O4	1:AA:112:U:H1'	1.82	0.78
1:AA:261:G:C4'	1:AA:608:A:C2	2.65	0.78
1:AA:518:G:H4'	20:AT:18:ARG:NH2	1.98	0.78
1:AA:673:C:H5'	6:AF:82:ILE:HG23	1.65	0.78
1:AA:774:A:H1'	1:AA:775:G:C8	2.18	0.78
1:AA:973:A:H1'	1:AA:1188:U:O4	1.82	0.78
1:AA:975:G:N2	1:AA:976:C:O4'	2.17	0.78
1:AA:981:A:N3	1:AA:2037:G:H1'	1.98	0.78
1:AA:1009:A:O2'	18:AR:62:ILE:HD13	1.83	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1041:C:O2	1:AA:1115:G:C5	2.35	0.78
1:AA:1080:C:C5'	10:AJ:128:ALA:C	2.56	0.78
1:AA:1797:C:H2'	1:AA:1798:U:C6	2.18	0.78
1:AA:2238:G:H1'	1:AA:2240:C:H5	1.48	0.78
1:AA:2746:U:N3	1:AA:2756:U:O4	2.15	0.78
5:AE:108:SER:OG	5:AE:164:ARG:CA	2.31	0.78
7:AG:163:ALA:HB1	7:AG:169:ALA:CA	2.11	0.78
10:AJ:108:ALA:HB2	10:AJ:111:LYS:HB3	1.63	0.78
11:AK:97:ARG:O	11:AK:100:GLU:N	2.16	0.78
12:AL:23:ARG:HH11	12:AL:23:ARG:CB	1.95	0.78
12:AL:122:LEU:HG	17:AQ:71:GLY:CA	2.13	0.78
13:AM:45:LEU:CD2	13:AM:46:LYS:HG3	2.13	0.78
14:AN:42:ILE:CD1	14:AN:46:GLN:HB3	2.13	0.78
22:AV:84:ARG:HD2	22:AV:84:ARG:C	2.08	0.78
24:AX:37:LEU:HD12	24:AX:59:LEU:HB3	1.63	0.78
28:Ab:39:MET:CE	28:Ab:41:PRO:HD3	2.13	0.78
34:BA:397:A:H2	34:BA:548:G:O6	1.66	0.78
34:BA:540:G:H21	37:BH:42:GLN:NE2	1.81	0.78
34:BA:704:A:H2'	34:BA:705:U:C6	2.18	0.78
34:BA:958:A:C1'	52:BW:55:LYS:HZ2	1.89	0.78
34:BA:1296:C:H1'	34:BA:1302:U:O4	1.82	0.78
34:BA:1308:U:O2	34:BA:1309:G:H5'	1.84	0.78
35:BF:44:LEU:O	35:BF:48:MET:SD	2.41	0.78
41:BL:88:LYS:H	41:BL:88:LYS:NZ	1.81	0.78
45:BP:85:ILE:HD11	45:BP:98:TYR:HB2	1.63	0.78
46:BQ:97:PRO:HB2	46:BQ:101:GLN:HG3	1.64	0.78
52:BW:62:ILE:HG12	52:BW:67:VAL:HG22	1.64	0.78
55:CA:23:ASP:O	55:CA:24:LYS:HG2	1.82	0.78
55:CA:127:ILE:CA	55:CA:164:TYR:HA	2.11	0.78
55:CA:379:GLU:OE1	55:CA:581:THR:CB	2.31	0.78
55:CA:527:HIS:CE1	55:CA:531:ASN:OD1	2.35	0.78
1:AA:248:G:C2	1:AA:2431:U:H5'	2.19	0.78
1:AA:269:U:H5''	1:AA:270(Y):G:C2'	2.08	0.78
1:AA:293:U:H6	1:AA:293:U:H3'	1.48	0.78
1:AA:360:G:H2'	1:AA:361:G:O4'	1.83	0.78
1:AA:653:A:H5'	1:AA:654:A:O2'	1.83	0.78
1:AA:1263:U:H4'	28:Ab:10:LYS:HG3	1.63	0.78
1:AA:1312:U:H5'	21:AU:63:LYS:HE3	1.65	0.78
1:AA:1568:G:H5''	4:AD:60:ARG:C	2.07	0.78
1:AA:1864:U:C2'	1:AA:1869:G:H5'	2.14	0.78
1:AA:2265:U:C2	1:AA:2266:A:N7	2.51	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2307:G:C4	1:AA:2308:G:H1'	2.18	0.78
1:AA:2450:A:O2'	1:AA:2451:A:H5'	1.83	0.78
1:AA:2610:C:H4'	1:AA:2611:U:O5'	1.81	0.78
1:AA:2630:G:O2'	1:AA:2894:G:P	2.40	0.78
3:AC:122:ALA:CB	3:AC:126:LYS:HD3	2.14	0.78
4:AD:9:TYR:CE2	4:AD:25:THR:HG21	2.18	0.78
4:AD:34:VAL:HG23	4:AD:36:PRO:HD2	1.65	0.78
5:AE:58:ARG:HB2	5:AE:58:ARG:HH11	1.47	0.78
5:AE:105:THR:OG1	5:AE:165:VAL:O	2.00	0.78
7:AG:57:ALA:N	7:AG:68:PRO:HB2	1.98	0.78
10:AJ:95:LYS:HA	10:AJ:95:LYS:CE	2.12	0.78
11:AK:12:ARG:HD2	11:AK:12:ARG:O	1.84	0.78
11:AK:88:GLU:HB2	11:AK:89:LYS:CE	2.13	0.78
11:AK:109:LYS:HG2	11:AK:112:LEU:HB2	1.64	0.78
15:AO:97:VAL:HG22	15:AO:114:VAL:HG11	1.65	0.78
18:AR:88:ILE:HG22	19:AS:55:ALA:HB3	1.64	0.78
18:AR:108:GLU:O	18:AR:109:LEU:C	2.26	0.78
19:AS:67:GLY:O	19:AS:93:GLU:O	2.02	0.78
22:AV:75:ILE:H	22:AV:100:ALA:HB1	1.46	0.78
24:AX:25:ARG:CG	24:AX:37:LEU:HA	2.13	0.78
24:AX:31:VAL:HG23	24:AX:65:GLY:O	1.82	0.78
31:Ae:42:ARG:HB3	31:Ae:43:GLN:HE22	1.47	0.78
32:Af:4:ARG:O	32:Af:5:ALA:HB2	1.83	0.78
34:BA:22:G:H5'	34:BA:885:G:O4'	1.83	0.78
34:BA:52:G:H2'	34:BA:53:A:C8	2.18	0.78
34:BA:277:C:H5''	50:BU:68:ARG:HH12	1.49	0.78
34:BA:520:A:H62	34:BA:529:G:N2	1.79	0.78
34:BA:594:G:N7	34:BA:595:G:N2	2.32	0.78
34:BA:735:C:O2'	34:BA:736:C:H5'	1.84	0.78
34:BA:748:C:C6	34:BA:748:C:O5'	2.36	0.78
34:BA:986:A:H5'	52:BW:55:LYS:HZ1	0.78	0.78
37:BH:12:CYS:HB3	37:BH:33:MET:HE3	1.66	0.78
38:BI:16:THR:HG23	38:BI:28:PHE:HA	1.65	0.78
38:BI:78:HIS:H	38:BI:78:HIS:CD2	1.99	0.78
39:BJ:65:VAL:HG23	39:BJ:66:GLU:N	1.96	0.78
39:BJ:65:VAL:HG23	39:BJ:66:GLU:O	1.83	0.78
42:BM:49:PRO:HB3	42:BM:82:ALA:HB2	1.65	0.78
45:BP:41:ARG:HG2	45:BP:42:THR:N	1.99	0.78
46:BQ:15:VAL:HG21	46:BQ:39:ILE:HG13	1.55	0.78
47:BR:60:SER:O	47:BR:61:TRP:HB3	1.83	0.78
48:BS:77:ARG:NH2	48:BS:78:TYR:HA	1.98	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:36:ILE:HD13	50:BU:36:ILE:N	1.98	0.78
50:BU:50:LYS:HD2	50:BU:51:TYR:CE1	2.19	0.78
51:BV:21:LYS:HD2	51:BV:22:VAL:H	1.47	0.78
55:CA:205:PHE:CE1	55:CA:226:ILE:HG23	2.18	0.78
55:CA:395:ARG:CD	55:CA:474:ASP:CB	2.52	0.78
55:CA:488:LEU:CG	55:CA:525:GLY:O	2.29	0.78
1:AA:270:A:H2'	1:AA:270(A):A:O4'	1.84	0.78
1:AA:470:A:H2'	1:AA:471:A:O4'	1.82	0.78
1:AA:602:G:O5'	1:AA:602:G:H8	1.66	0.78
1:AA:1290:C:H2'	1:AA:1291:C:C6	2.18	0.78
1:AA:1785:A:O5'	1:AA:1982:C:H4'	1.83	0.78
1:AA:2135:A:H4'	1:AA:2136:C:C6	2.17	0.78
1:AA:2493:U:H3'	1:AA:2493:U:H6	1.46	0.78
1:AA:2524:G:H2'	1:AA:2525:G:O4'	1.83	0.78
3:AC:39:GLU:OE2	3:AC:216:THR:HB	1.82	0.78
3:AC:113:VAL:HG12	3:AC:138:PRO:HG3	1.65	0.78
4:AD:134:ARG:HG2	4:AD:187:GLY:C	2.08	0.78
4:AD:206:LEU:O	4:AD:206:LEU:HD22	1.83	0.78
4:AD:244:ARG:N	4:AD:245:PRO:CD	2.46	0.78
5:AE:125:GLY:H	5:AE:136:ARG:HA	1.49	0.78
7:AG:146:TYR:CE1	7:AG:149:VAL:HA	2.19	0.78
8:AH:98:LEU:HG	8:AH:123:PHE:CB	2.11	0.78
8:AH:164:TYR:HE2	8:AH:167:GLU:N	1.80	0.78
10:AJ:27:LEU:CD2	10:AJ:58:THR:CA	2.62	0.78
10:AJ:33:ASN:HB2	10:AJ:63:ARG:HB3	1.65	0.78
13:AM:29:LYS:O	13:AM:30:THR:HG23	1.83	0.78
14:AN:74:TYR:N	14:AN:74:TYR:CD1	2.49	0.78
15:AO:37:THR:HG23	15:AO:40:LYS:HD2	1.66	0.78
17:AQ:58:ASN:N	17:AQ:61:PHE:CD2	2.51	0.78
17:AQ:64:ARG:O	17:AQ:66:VAL:HG22	1.83	0.78
23:AW:103:ARG:HE	23:AW:103:ARG:HA	1.47	0.78
23:AW:122:ARG:HG2	23:AW:170:THR:O	1.83	0.78
30:Ad:42:LEU:O	30:Ad:45:ALA:HB3	1.82	0.78
31:Ae:13:ARG:HD2	31:Ae:24:ALA:HB1	1.63	0.78
34:BA:819:A:C6	34:BA:1529:G:N7	2.51	0.78
34:BA:834:C:O2'	34:BA:835:U:H5'	1.84	0.78
34:BA:872:A:O2'	34:BA:873:A:OP1	2.01	0.78
34:BA:1245:A:H2'	34:BA:1246:C:H6	1.47	0.78
34:BA:1320:C:O2	52:BW:75:ALA:O	2.01	0.78
35:BF:16:HIS:CE1	35:BF:210:SER:HA	2.19	0.78
35:BF:71:VAL:CG2	35:BF:93:VAL:HB	2.14	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:88:ALA:HA	35:BF:219:VAL:HG13	1.66	0.78
35:BF:101:MET:CB	35:BF:108:ILE:HG13	2.13	0.78
35:BF:132:LYS:H	35:BF:132:LYS:HE2	1.48	0.78
36:BG:17:ASP:HB3	36:BG:18:TRP:HE3	1.49	0.78
38:BI:60:TYR:O	38:BI:64:ARG:HG2	1.82	0.78
41:BL:65:TYR:O	41:BL:67:PRO:HD3	1.81	0.78
48:BS:42:HIS:NE2	48:BS:43:LEU:HD23	1.99	0.78
50:BU:5:VAL:HG12	50:BU:6:LEU:N	1.99	0.78
52:BW:62:ILE:HD11	52:BW:67:VAL:CA	2.14	0.78
53:BX:29:LYS:O	53:BX:32:ALA:HB3	1.84	0.78
53:BX:66:ALA:HB3	53:BX:72:LEU:HD12	1.64	0.78
55:CA:397:GLN:CD	55:CA:472:TYR:O	2.25	0.78
55:CA:427:LYS:CG	55:CA:442:VAL:HG23	1.95	0.78
1:AA:245:G:OP1	13:AM:65:ARG:HD3	1.83	0.78
1:AA:270(B):A:H5'	1:AA:366:C:O4'	1.82	0.78
1:AA:657:U:H2'	1:AA:658:C:H6	1.48	0.78
1:AA:673:C:H2'	1:AA:674:G:C5'	2.13	0.78
1:AA:893:C:C6	1:AA:894:C:C5	2.71	0.78
1:AA:1693:U:H5''	1:AA:1694:C:OP2	1.84	0.78
1:AA:2335:A:H2'	1:AA:2337:G:N7	1.98	0.78
1:AA:2666:C:H41	1:AA:2667:C:N4	1.81	0.78
2:AB:31:C:C2	2:AB:32:C:C5	2.71	0.78
3:AC:59:ARG:HG3	3:AC:60:GLY:H	1.48	0.78
3:AC:77:ILE:HG22	3:AC:119:VAL:HG21	1.64	0.78
4:AD:147:LEU:HB3	4:AD:185:VAL:CG2	2.11	0.78
12:AL:105:GLU:O	12:AL:111:PHE:CZ	2.31	0.78
14:AN:75:THR:HG23	14:AN:91:GLU:CD	2.09	0.78
15:AO:36:THR:HB	15:AO:40:LYS:CD	2.12	0.78
16:AP:74:ALA:HB2	16:AP:104:GLY:O	1.82	0.78
18:AR:97:ASP:HA	18:AR:101:ARG:HH21	1.49	0.78
22:AV:108:THR:O	22:AV:109:GLU:HG3	1.83	0.78
23:AW:110:GLY:CA	23:AW:144:LEU:HB2	2.14	0.78
25:AY:25:ARG:O	25:AY:28:MET:HB2	1.84	0.78
28:Ab:51:TYR:CD2	28:Ab:55:ARG:HD3	2.18	0.78
29:Ac:25:LYS:HE2	31:Ae:35:GLN:HB3	1.65	0.78
30:Ad:21:ARG:CB	30:Ad:31:LEU:HD11	2.13	0.78
32:Af:10:ILE:HD11	32:Af:34:GLN:NE2	1.98	0.78
34:BA:279:A:H1'	34:BA:281:G:N3	1.98	0.78
34:BA:654:G:N2	34:BA:753:A:H1'	1.98	0.78
34:BA:761:G:C5'	50:BU:103:GLY:H	1.96	0.78
34:BA:1318:A:H2'	52:BW:37:ARG:H	1.48	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1459:C:OP2	53:BX:31:SER:CB	2.32	0.78
35:BF:17:PHE:HD1	35:BF:18:GLY:H	1.29	0.78
35:BF:18:GLY:O	35:BF:19:HIS:ND1	2.15	0.78
36:BG:15:THR:HG21	36:BG:181:ASN:CA	2.12	0.78
41:BL:86:ILE:HB	41:BL:133:LEU:O	1.82	0.78
45:BP:6:THR:O	45:BP:10:LEU:HB2	1.83	0.78
45:BP:47:LYS:N	45:BP:48:PRO:HD3	1.98	0.78
46:BQ:23:TYR:O	46:BQ:66:LEU:HG	1.83	0.78
48:BS:6:GLU:HG2	48:BS:7:GLU:N	1.94	0.78
55:CA:6:ARG:HG2	55:CA:68:TYR:O	1.82	0.78
55:CA:453:SER:OG	55:CA:570:GLU:OE2	2.01	0.78
1:AA:141:A:C2	1:AA:141(A):C:O4'	2.37	0.78
1:AA:371:A:O2'	1:AA:372:G:OP1	1.99	0.78
1:AA:623:G:P	13:AM:105:LEU:HD21	2.24	0.78
1:AA:1046:A:C5'	9:AI:6:ASN:O	2.29	0.78
1:AA:1069:A:H4'	1:AA:1070:A:H5''	1.66	0.78
1:AA:1188:U:O2'	1:AA:1189:A:H5'	1.84	0.78
1:AA:1312:U:C2'	1:AA:1313:U:H6	1.96	0.78
1:AA:1615:C:C2	20:AT:87:PRO:HG3	2.19	0.78
1:AA:1634:A:O2'	1:AA:1635:G:OP1	2.02	0.78
1:AA:1639:U:H2'	1:AA:1640:C:H5''	1.64	0.78
1:AA:1790:C:O2'	4:AD:209:ALA:HB3	1.83	0.78
1:AA:1805:U:H1'	4:AD:51:VAL:HG11	1.65	0.78
1:AA:1913:A:C6	34:BA:1494:G:OP1	2.36	0.78
1:AA:1941:C:H2'	1:AA:1941:C:O2	1.83	0.78
1:AA:2097:C:C2'	1:AA:2098:U:H5'	2.13	0.78
1:AA:2233:U:H2'	1:AA:2234:G:C8	2.19	0.78
1:AA:2790:A:C4'	1:AA:2893:G:H21	1.96	0.78
2:AB:21:G:H2'	2:AB:22:U:O4'	1.84	0.78
3:AC:62:VAL:HG22	3:AC:63:SER:H	1.46	0.78
5:AE:147:PRO:HB2	5:AE:149:ARG:HD2	1.66	0.78
7:AG:139:LEU:HD13	7:AG:142:PRO:HA	1.65	0.78
11:AK:57:ALA:O	11:AK:60:ILE:HG13	1.83	0.78
12:AL:39:ILE:HD13	12:AL:39:ILE:N	1.98	0.78
14:AN:42:ILE:HD13	14:AN:42:ILE:C	2.09	0.78
15:AO:72:ASP:O	15:AO:76:VAL:HG23	1.83	0.78
16:AP:62:LYS:O	16:AP:65:VAL:N	2.17	0.78
19:AS:18:LEU:CD1	19:AS:66:ARG:HH12	1.97	0.78
20:AT:64:MET:CG	20:AT:109:GLU:HG3	2.13	0.78
21:AU:18:TYR:HA	21:AU:21:PHE:CD2	2.18	0.78
23:AW:57:ILE:HG22	23:AW:58:VAL:N	1.96	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:105:VAL:HB	23:AW:140:ASP:OD2	1.84	0.78
30:Ad:17:GLY:N	30:Ad:21:ARG:HH22	1.81	0.78
30:Ad:41:ARG:O	30:Ad:42:LEU:HG	1.83	0.78
34:BA:37:U:H6	34:BA:37:U:C3'	1.94	0.78
34:BA:124:G:H2'	34:BA:125:U:C6	2.18	0.78
34:BA:261:U:H2'	34:BA:263:A:OP2	1.83	0.78
34:BA:358:U:O3'	55:CA:216:SER:O	2.00	0.78
34:BA:520:A:N6	34:BA:529:G:N2	2.32	0.78
34:BA:663:A:H5'	34:BA:836:G:OP1	1.84	0.78
34:BA:1225:A:O4'	52:BW:78:ARG:HB3	1.82	0.78
34:BA:1309:G:N2	34:BA:1328:C:N3	2.30	0.78
34:BA:1315:U:O2	34:BA:1361:G:H1'	1.80	0.78
34:BA:1375:A:C2	34:BA:1376:U:C2	2.70	0.78
34:BA:1495:U:H2'	34:BA:1496:C:H5'	1.65	0.78
36:BG:116:VAL:HG11	36:BG:141:VAL:HG21	1.64	0.78
37:BH:198:VAL:HG23	37:BH:199:ASN:H	1.49	0.78
40:BK:137:LYS:HA	40:BK:140:ASP:OD2	1.81	0.78
41:BL:91:ARG:HG2	50:BU:34:LYS:CB	2.12	0.78
41:BL:114:THR:HG23	41:BL:119:LEU:HD23	1.66	0.78
43:BN:6:ILE:HG22	43:BN:98:ILE:HG13	1.66	0.78
50:BU:65:ILE:HG23	50:BU:69:LYS:HD2	1.64	0.78
55:CA:8:ILE:HD11	55:CA:96:LEU:CD1	2.14	0.78
1:AA:668:G:H2'	1:AA:670:A:H62	1.49	0.78
1:AA:686:G:H8	30:Ad:7:PRO:HA	1.49	0.78
1:AA:851:U:H4'	26:AZ:46:ASN:HA	1.65	0.78
1:AA:894:C:H2'	1:AA:895:U:C5'	2.14	0.78
1:AA:1046:A:N3	9:AI:11:ALA:CB	2.46	0.78
1:AA:1299:G:H22	1:AA:1640:C:H5'	1.46	0.78
1:AA:1324:G:C1'	1:AA:1616:A:N6	2.45	0.78
1:AA:1368:G:O2'	1:AA:1369:G:H5'	1.83	0.78
1:AA:1388:G:H2'	1:AA:1389:G:H8	1.48	0.78
1:AA:1788:C:C2	4:AD:222:ARG:NH2	2.51	0.78
1:AA:1882:C:N3	1:AA:1883:G:H1'	1.98	0.78
1:AA:2286:A:H62	29:Ac:32:ASN:H	1.30	0.78
1:AA:2525:G:H5'	1:AA:2526:G:OP2	1.84	0.78
1:AA:2587:A:H2'	1:AA:2588:G:H5'	1.65	0.78
1:AA:2825:C:H6	1:AA:2825:C:O5'	1.65	0.78
2:AB:31:C:O2	2:AB:53:A:N6	2.17	0.78
3:AC:134:ARG:HD3	3:AC:136:LEU:HD12	1.66	0.78
6:AF:93:LYS:HE2	6:AF:95:ARG:HG2	1.65	0.78
7:AG:39:ILE:HD12	7:AG:39:ILE:N	1.99	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:59:GLU:CD	7:AG:152:LEU:HD22	2.09	0.78
8:AH:103:LEU:HD22	8:AH:115:VAL:HG21	1.66	0.78
8:AH:153:LYS:HB2	8:AH:162:ILE:CG2	2.14	0.78
11:AK:86:PRO:HB2	11:AK:89:LYS:HZ2	1.47	0.78
12:AL:18:LYS:HB3	12:AL:45:GLU:CG	2.14	0.78
14:AN:134:ARG:NH2	14:AN:137:TYR:CD1	2.51	0.78
17:AQ:26:ASP:HA	17:AQ:100:TYR:OH	1.84	0.78
22:AV:1:MET:CG	22:AV:67:LEU:HD22	2.14	0.78
22:AV:38:ILE:HG23	22:AV:60:PHE:CZ	2.18	0.78
22:AV:88:LYS:HB3	22:AV:91:GLU:CD	2.08	0.78
24:AX:37:LEU:N	24:AX:37:LEU:HD23	1.99	0.78
24:AX:44:ARG:HE	24:AX:77:ARG:HD2	1.48	0.78
34:BA:113:G:H2'	34:BA:114:U:C6	2.19	0.78
34:BA:154:C:O2'	34:BA:155:C:H5'	1.83	0.78
34:BA:270:A:O2'	34:BA:271:C:H5'	1.82	0.78
34:BA:339:C:H2'	34:BA:340:U:H6	1.48	0.78
34:BA:477:G:H2'	34:BA:478:A:H8	1.45	0.78
34:BA:1407:C:C2'	34:BA:1408:A:H5'	2.14	0.78
36:BG:12:LEU:HD21	47:BR:58:LYS:H	1.48	0.78
36:BG:159:GLY:N	36:BG:193:TYR:HE1	1.81	0.78
38:BI:48:ALA:HB1	38:BI:53:LEU:HD12	1.66	0.78
38:BI:100:VAL:CG1	38:BI:107:ARG:HG3	2.14	0.78
42:BM:66:ARG:HG2	42:BM:67:GLY:H	1.49	0.78
44:BO:46:GLY:CA	44:BO:55:LYS:HD2	2.13	0.78
44:BO:91:ARG:O	44:BO:95:ILE:HG13	1.82	0.78
55:CA:99:VAL:O	55:CA:127:ILE:HA	1.83	0.78
55:CA:212:LEU:HD11	55:CA:220:VAL:CG1	2.13	0.78
55:CA:488:LEU:HD12	55:CA:525:GLY:C	2.08	0.78
1:AA:1205:U:C2'	1:AA:1206:G:N7	2.47	0.78
1:AA:1264:G:C3'	1:AA:1265:A:H5''	2.14	0.78
1:AA:1475:G:H22	1:AA:1477:A:H62	1.32	0.78
1:AA:1842:G:O2'	1:AA:1843:C:H5'	1.84	0.78
1:AA:1913:A:C4'	1:AA:1914:C:H5'	2.08	0.78
1:AA:1935:G:H3'	1:AA:1962:C:H42	1.48	0.78
1:AA:2259:G:H5'	1:AA:2427:C:H3'	1.65	0.78
1:AA:2318:G:O5'	1:AA:2318:G:H8	1.67	0.78
1:AA:2515:C:O2'	1:AA:2516:G:H5'	1.84	0.78
1:AA:2520:C:O2'	1:AA:2521:C:H5'	1.83	0.78
4:AD:37:LEU:HD21	4:AD:64:ILE:H	1.49	0.78
4:AD:56:GLY:H	4:AD:217:ARG:CD	1.96	0.78
4:AD:145:VAL:O	4:AD:155:LEU:HB3	1.84	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:45:THR:OG1	5:AE:80:GLU:O	2.01	0.78
5:AE:203:LYS:HD3	5:AE:203:LYS:O	1.83	0.78
6:AF:34:TRP:HD1	6:AF:38:ARG:HH21	1.32	0.78
7:AG:29:TRP:O	7:AG:31:VAL:N	2.14	0.78
8:AH:74:ASN:HB2	8:AH:138:LYS:NZ	1.99	0.78
10:AJ:108:ALA:HB2	10:AJ:111:LYS:CB	2.13	0.78
12:AL:122:LEU:CB	17:AQ:71:GLY:HA3	2.14	0.78
13:AM:52:GLU:CA	13:AM:55:ARG:HG3	2.14	0.78
13:AM:121:LYS:N	13:AM:122:PRO:HD3	1.98	0.78
15:AO:11:ASN:CG	15:AO:12:ARG:N	2.41	0.78
15:AO:50:HIS:O	15:AO:53:HIS:HB3	1.84	0.78
21:AU:70:LEU:HD23	21:AU:71:GLY:N	1.99	0.78
23:AW:55:HIS:HB3	23:AW:101:PRO:CG	2.14	0.78
23:AW:94:GLU:N	23:AW:95:PRO:CD	2.46	0.78
27:Aa:64:GLY:HA2	27:Aa:67:TYR:CD2	2.18	0.78
30:Ad:43:THR:C	30:Ad:45:ALA:H	1.90	0.78
32:Af:15:LYS:HB2	32:Af:26:ILE:O	1.84	0.78
34:BA:10:A:OP2	38:BI:126:ARG:HD2	1.83	0.78
34:BA:858:G:N2	34:BA:869:G:H3'	1.98	0.78
34:BA:1267:C:O2	34:BA:1267:C:H2'	1.84	0.78
35:BF:184:VAL:H	35:BF:198:ASP:CG	1.92	0.78
41:BL:9:MET:HG2	41:BL:13:ILE:HD11	1.64	0.78
41:BL:32:LYS:HG2	41:BL:33:GLU:N	1.97	0.78
49:BT:56:ALA:CB	49:BT:79:VAL:HG11	2.13	0.78
55:CA:62:ALA:CB	55:CA:64:ILE:HG13	2.13	0.78
55:CA:127:ILE:HB	55:CA:164:TYR:CA	2.12	0.78
55:CA:160:PHE:HA	55:CA:161:ALA:C	2.08	0.78
55:CA:346:ARG:HB2	55:CA:359:SER:HB2	1.65	0.78
55:CA:407:VAL:N	55:CA:408:GLU:HG3	1.97	0.78
1:AA:176:G:H2'	1:AA:177:G:H8	1.46	0.78
1:AA:574:C:N1	1:AA:2055:C:H5	1.82	0.78
1:AA:623:G:H8	13:AM:105:LEU:HB2	1.48	0.78
1:AA:882:G:O3'	1:AA:883:G:H5''	1.84	0.78
1:AA:1036:G:C5'	8:AH:59:ARG:HH12	1.95	0.78
1:AA:1203:G:N1	1:AA:1241:A:C8	2.52	0.78
1:AA:1242:A:H2	13:AM:6:LEU:HD21	1.48	0.78
1:AA:1583:A:H5'	1:AA:1585:C:H5'	1.66	0.78
1:AA:1708:C:O2'	1:AA:1709:U:H5''	1.84	0.78
1:AA:1798:U:H5'	4:AD:257:LEU:CD1	2.14	0.78
1:AA:1799:G:O6	4:AD:177:LEU:HD12	1.84	0.78
1:AA:1804:C:C4'	4:AD:250:TRP:HH2	1.95	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1907:G:O2'	1:AA:1908:C:H5'	1.83	0.78
1:AA:2043:C:H6	1:AA:2043:C:OP1	1.67	0.78
1:AA:2165:G:H2'	1:AA:2166:G:O4'	1.83	0.78
1:AA:2282:G:N2	1:AA:2425:A:C8	2.52	0.78
1:AA:2312:U:H5'	7:AG:43:LEU:HD21	1.65	0.78
1:AA:2513:G:H2'	1:AA:2514:U:C6	2.19	0.78
6:AF:74:ARG:HH21	6:AF:75:HIS:HA	1.46	0.78
8:AH:117:PRO:HA	8:AH:121:ILE:HD13	1.64	0.78
11:AK:37:LYS:HD2	11:AK:42:TRP:C	2.09	0.78
11:AK:54:VAL:HG12	11:AK:122:VAL:CB	2.14	0.78
12:AL:59:LYS:HE2	12:AL:59:LYS:H	1.47	0.78
18:AR:79:PHE:CZ	18:AR:83:LEU:HD11	2.19	0.78
21:AU:36:LYS:CD	21:AU:54:VAL:HG12	2.13	0.78
26:AZ:19:GLN:O	26:AZ:23:LEU:HD13	1.82	0.78
34:BA:225:C:H2'	34:BA:226:G:C5'	2.13	0.78
34:BA:301:G:H21	34:BA:302:G:H1'	1.49	0.78
34:BA:359:U:H5''	55:CA:216:SER:CB	1.97	0.78
34:BA:781:A:N6	34:BA:802:A:C4	2.51	0.78
34:BA:961:U:H1'	34:BA:1201:A:H61	1.49	0.78
34:BA:1316:G:O4'	34:BA:1360:A:N1	2.16	0.78
35:BF:24:TRP:CH2	35:BF:26:PRO:HA	2.18	0.78
35:BF:73:THR:HG21	35:BF:95:GLN:O	1.84	0.78
37:BH:38:TYR:HB2	37:BH:39:PRO:HD2	1.63	0.78
37:BH:135:LEU:HD12	37:BH:138:TYR:HB2	1.65	0.78
44:BO:42:TRP:HE3	44:BO:43:SER:HA	1.48	0.78
48:BS:26:GLU:O	48:BS:29:VAL:HB	1.84	0.78
51:BV:69:THR:HA	51:BV:72:ARG:HG3	1.66	0.78
55:CA:55:THR:C	55:CA:56:ILE:CD1	2.49	0.78
55:CA:165:ALA:HB2	55:CA:171:ILE:HG22	1.63	0.78
1:AA:5:A:C6	1:AA:2898:U:O4	2.35	0.78
1:AA:182:A:H2'	1:AA:183:C:H6	1.46	0.78
1:AA:312:G:O4'	1:AA:312:G:OP1	2.02	0.78
1:AA:360:G:H2'	1:AA:361:G:C5'	2.14	0.78
1:AA:776:G:O2'	1:AA:777:A:OP2	2.02	0.78
1:AA:860:U:H2'	1:AA:861:A:H5'	1.66	0.78
1:AA:961:C:O2'	1:AA:962:G:OP1	2.01	0.78
1:AA:973:A:C1'	1:AA:1188:U:O4	2.32	0.78
1:AA:1036:G:N2	1:AA:1120:G:C5	2.51	0.78
1:AA:1268:A:C6	1:AA:2013:A:N7	2.51	0.78
1:AA:1491:G:C3'	1:AA:1492:G:H4'	2.14	0.78
1:AA:1780:A:H4'	1:AA:1780:A:OP1	1.83	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1788:C:N4	1:AA:1789:A:N7	2.32	0.78
1:AA:2320:A:N6	16:AP:4:LEU:HD13	1.99	0.78
1:AA:2349:G:C3'	1:AA:2350:C:H5''	2.12	0.78
1:AA:2506:U:O2'	1:AA:2507:C:H5'	1.84	0.78
1:AA:2651:C:O2	1:AA:2670:A:N3	2.16	0.78
1:AA:2672:G:H2'	1:AA:2673:G:H8	1.45	0.78
1:AA:2718:G:H2'	1:AA:2719:G:H8	1.49	0.78
1:AA:2776:A:H4'	1:AA:2777:G:H5''	1.66	0.78
1:AA:2780:G:N2	11:AK:97:ARG:NH1	2.23	0.78
3:AC:180:PHE:CE2	3:AC:184:LYS:HD3	2.19	0.78
4:AD:55:GLY:HA2	4:AD:217:ARG:NE	1.98	0.78
4:AD:112:GLN:N	4:AD:115:GLN:NE2	2.31	0.78
5:AE:43:GLY:O	5:AE:45:THR:HG22	1.82	0.78
10:AJ:12:LEU:CG	10:AJ:57:ILE:CG2	2.62	0.78
12:AL:77:ILE:O	17:AQ:75:ILE:HG13	1.84	0.78
15:AO:8:ARG:HE	15:AO:10:LEU:HD11	1.49	0.78
15:AO:52:ILE:O	15:AO:52:ILE:HD13	1.83	0.78
16:AP:39:ILE:C	16:AP:40:ILE:HD12	2.09	0.78
19:AS:35:LEU:HG	19:AS:36:PRO:HD2	1.66	0.78
21:AU:7:VAL:CG1	25:AY:31:ARG:HH12	1.97	0.78
23:AW:65:GLN:O	23:AW:67:LEU:HG	1.84	0.78
25:AY:27:LEU:HD21	25:AY:48:LEU:HB3	1.64	0.78
29:Ac:30:THR:HB	29:Ac:31:PRO:CD	2.12	0.78
34:BA:132:C:C2	34:BA:231:G:N2	2.51	0.78
34:BA:408:A:H5'	37:BH:116:GLN:HG2	1.66	0.78
34:BA:1164:G:C2'	34:BA:1165:C:H5'	2.14	0.78
34:BA:1210:C:H4'	34:BA:1214:C:N3	1.98	0.78
34:BA:1309:G:N7	34:BA:1330:U:C4	2.51	0.78
34:BA:1394:A:N6	34:BA:1501:C:H5'	1.98	0.78
34:BA:1394:A:N7	34:BA:1501:C:O4'	2.16	0.78
34:BA:1441:G:N2	34:BA:1460:A:N6	2.30	0.78
37:BH:108:LEU:HD23	37:BH:174:LEU:HD13	1.66	0.78
38:BI:125:SER:C	38:BI:127:ASN:H	1.92	0.78
40:BK:78:ARG:HB2	40:BK:156:TRP:CH2	2.19	0.78
40:BK:143:ARG:HD2	40:BK:144:MET:H	1.49	0.78
44:BO:61:ALA:CB	44:BO:94:ALA:HB2	2.07	0.78
45:BP:82:VAL:HG12	45:BP:83:VAL:H	1.49	0.78
49:BT:31:LYS:HB3	49:BT:31:LYS:HZ3	1.49	0.78
53:BX:33:ILE:HD13	53:BX:63:ILE:CA	2.13	0.78
53:BX:63:ILE:O	53:BX:72:LEU:HD12	1.84	0.78
55:CA:22:VAL:CG1	55:CA:74:ASP:OD1	2.32	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:62:ALA:HB1	55:CA:187:TYR:CD2	2.08	0.78
55:CA:306:THR:O	55:CA:360:GLY:O	2.00	0.78
55:CA:377:GLY:CA	55:CA:582:PRO:HG3	2.14	0.78
1:AA:149:A:H2'	1:AA:150:C:H5'	1.66	0.77
1:AA:172:C:C2	1:AA:173:G:C8	2.71	0.77
1:AA:396:G:OP1	27:Aa:10:VAL:HG22	1.83	0.77
1:AA:477:A:H62	1:AA:502:A:H61	0.80	0.77
1:AA:494:G:H5'	20:AT:7:ALA:HA	1.66	0.77
1:AA:735:A:H8	1:AA:735:A:O5'	1.67	0.77
1:AA:740:U:C1'	1:AA:1784:A:N7	2.47	0.77
1:AA:1034:G:C6	1:AA:1122:G:C5	2.72	0.77
1:AA:1996:C:H2'	1:AA:1997:G:C4'	2.13	0.77
1:AA:2073:C:C2'	1:AA:2074:U:H5'	2.14	0.77
1:AA:2370:G:O2'	29:Ac:45:LYS:HD3	1.84	0.77
1:AA:2503:A:H4'	1:AA:2504:U:OP1	1.84	0.77
1:AA:2647:U:H2'	1:AA:2648:C:C6	2.20	0.77
1:AA:2651:C:C2'	1:AA:2652:C:H5''	2.14	0.77
1:AA:2789:C:C2'	1:AA:2893:G:N2	2.46	0.77
4:AD:147:LEU:HA	4:AD:185:VAL:CG1	2.14	0.77
6:AF:119:ARG:HH11	6:AF:119:ARG:CB	1.97	0.77
6:AF:130:ALA:O	6:AF:139:PHE:HA	1.84	0.77
8:AH:35:VAL:CG2	8:AH:72:ILE:HG23	2.14	0.77
8:AH:105:LEU:N	8:AH:105:LEU:HD23	1.96	0.77
8:AH:149:ARG:HG2	8:AH:153:LYS:HD2	1.65	0.77
12:AL:85:VAL:O	12:AL:93:PRO:CD	2.31	0.77
13:AM:88:LEU:CD1	13:AM:124:LYS:HZ1	1.97	0.77
13:AM:113:LYS:HB2	13:AM:129:ALA:HB1	1.65	0.77
24:AX:19:LYS:HG2	24:AX:20:ARG:H	1.45	0.77
29:Ac:7:ILE:C	29:Ac:9:LEU:N	2.41	0.77
33:Ag:309:UNK:N	55:CA:142:ASP:OD1	2.16	0.77
34:BA:148:G:H1	34:BA:174:C:H42	1.32	0.77
34:BA:511:C:HO2'	34:BA:512:U:H6	1.33	0.77
34:BA:589:C:OP1	41:BL:5:PRO:HG2	1.82	0.77
34:BA:708:C:O2'	34:BA:709:G:H5'	1.83	0.77
34:BA:1310:G:C5	34:BA:1327:C:N3	2.52	0.77
34:BA:1372:U:OP2	42:BM:11:LYS:HE2	1.84	0.77
35:BF:162:ILE:HD13	35:BF:183:PRO:O	1.84	0.77
36:BG:19:GLU:HB2	47:BR:52:GLN:HG2	1.65	0.77
41:BL:24:THR:O	41:BL:60:ARG:HA	1.84	0.77
41:BL:110:ALA:HA	41:BL:136:GLU:HB2	1.66	0.77
44:BO:48:ILE:HG23	44:BO:63:LEU:HD13	1.66	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:66:LEU:HD12	51:BV:67:ALA:H	1.49	0.77
55:CA:57:LEU:HD23	55:CA:71:ASN:CG	2.09	0.77
1:AA:209:C:H5'	1:AA:681:G:H4'	1.66	0.77
1:AA:307:G:N2	1:AA:309:G:H3'	1.98	0.77
1:AA:328:U:H3	1:AA:332:A:H62	1.32	0.77
1:AA:530:G:H22	1:AA:2021:C:C3'	1.96	0.77
1:AA:673:C:C2'	1:AA:674:G:H5'	2.15	0.77
1:AA:847:U:N3	1:AA:933:A:H2	1.82	0.77
1:AA:865:C:O2'	1:AA:866:A:N7	2.15	0.77
1:AA:878:A:H2'	1:AA:879:G:H8	1.50	0.77
1:AA:892:G:H2'	1:AA:893:C:C6	2.19	0.77
1:AA:901:A:N7	1:AA:902:C:N4	2.32	0.77
1:AA:1427:A:H1'	1:AA:1428:C:C5	2.20	0.77
1:AA:1451:C:H2'	1:AA:1457:A:N6	1.99	0.77
1:AA:1682:G:OP2	1:AA:1699:G:N2	2.18	0.77
1:AA:2516:G:C4	1:AA:2569:G:N2	2.52	0.77
1:AA:2519:U:C6	1:AA:2542:A:C6	2.72	0.77
1:AA:2889:C:H2'	1:AA:2891:G:H8	1.46	0.77
2:AB:28:C:O5'	2:AB:28:C:H6	1.67	0.77
3:AC:19:ILE:HD12	3:AC:223:ARG:CB	2.11	0.77
3:AC:19:ILE:HG23	3:AC:223:ARG:HG2	1.66	0.77
3:AC:81:GLU:O	3:AC:84:LYS:HB2	1.84	0.77
4:AD:147:LEU:HG	4:AD:154:LYS:CD	2.10	0.77
4:AD:181:GLU:HG3	4:AD:270:ILE:CB	2.11	0.77
4:AD:196:VAL:CG1	4:AD:197:GLY:N	2.31	0.77
5:AE:58:ARG:HG2	5:AE:63:LEU:HD23	1.66	0.77
6:AF:139:PHE:HE2	6:AF:167:ALA:HA	1.48	0.77
6:AF:154:VAL:HG12	6:AF:191:ARG:HB3	1.65	0.77
8:AH:85:LYS:CE	8:AH:142:GLY:HA2	2.15	0.77
8:AH:89:ILE:HD12	8:AH:90:LYS:N	1.99	0.77
10:AJ:92:GLY:HA3	10:AJ:93:ARG:CB	2.07	0.77
12:AL:24:VAL:CG2	12:AL:30:ALA:HA	2.14	0.77
14:AN:34:LEU:HA	14:AN:131:ILE:CG1	2.11	0.77
14:AN:65:PHE:O	14:AN:66:ILE:HG13	1.83	0.77
14:AN:122:GLY:HA2	14:AN:125:LEU:HG	1.65	0.77
14:AN:137:TYR:CE2	23:AW:124:ILE:CD1	2.68	0.77
17:AQ:7:ILE:O	17:AQ:11:GLU:CD	2.27	0.77
17:AQ:27:THR:O	17:AQ:52:ILE:HB	1.84	0.77
18:AR:57:PHE:CD2	18:AR:60:LEU:HD12	2.19	0.77
23:AW:31:ARG:N	23:AW:89:PHE:HE1	1.82	0.77
34:BA:161:A:H2'	34:BA:162:A:O4'	1.83	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:737:A:OP1	39:BJ:91:VAL:HA	1.84	0.77
34:BA:962:C:H1'	34:BA:1201:A:N1	1.99	0.77
34:BA:1109:C:C2'	34:BA:1110:A:H8	1.97	0.77
34:BA:1237:C:O2'	34:BA:1300:G:N2	2.17	0.77
34:BA:1454:G:C5	34:BA:1455:G:O6	2.36	0.77
35:BF:136:VAL:O	35:BF:139:LYS:HG2	1.85	0.77
40:BK:76:ARG:HD3	40:BK:89:MET:HE2	1.67	0.77
42:BM:53:VAL:HG21	42:BM:92:TYR:CE1	2.20	0.77
44:BO:122:LYS:C	44:BO:126:ARG:HG3	2.10	0.77
49:BT:6:LEU:HA	49:BT:18:ARG:O	1.84	0.77
55:CA:82:GLY:CA	55:CA:361:ARG:HB3	2.14	0.77
55:CA:111:PHE:CE1	55:CA:115:LYS:HG2	2.18	0.77
55:CA:180:ALA:HB3	55:CA:181:GLU:HB3	1.66	0.77
55:CA:206:GLN:HB3	55:CA:228:ARG:H	1.47	0.77
55:CA:300:LEU:HB2	55:CA:301:SER:CA	2.15	0.77
55:CA:512:LEU:HD11	55:CA:524:ILE:HG22	1.67	0.77
1:AA:1356:G:O2'	1:AA:1357:U:H5'	1.85	0.77
1:AA:1495:A:H2'	1:AA:1496:A:N7	1.98	0.77
1:AA:1800:C:H3'	1:AA:1800:C:H6	1.45	0.77
1:AA:1853:A:H2'	1:AA:1854:A:H8	1.49	0.77
1:AA:1967:C:H42	1:AA:1968:G:H21	1.29	0.77
1:AA:2007:C:H4'	1:AA:2824:C:O2'	1.83	0.77
1:AA:2447:G:C3'	1:AA:2499:C:OP2	2.32	0.77
1:AA:2455:G:H2'	1:AA:2456:C:H6	1.49	0.77
1:AA:2638:G:N7	1:AA:2775:A:C6	2.53	0.77
1:AA:2700:C:C2'	1:AA:2701:C:H5''	2.15	0.77
1:AA:2748:A:O2'	8:AH:66:GLY:HA3	1.85	0.77
1:AA:2805:G:H3'	1:AA:2807:G:C5'	2.14	0.77
3:AC:90:GLY:HA3	3:AC:157:LYS:HB2	1.66	0.77
7:AG:57:ALA:O	7:AG:67:LYS:HB2	1.83	0.77
10:AJ:75:SER:CB	10:AJ:130:SER:HB2	1.80	0.77
11:AK:6:PRO:HA	11:AK:41:ASP:CB	2.13	0.77
12:AL:49:ARG:NH2	34:BA:1423:G:C4'	2.48	0.77
13:AM:113:LYS:HZ2	13:AM:115:LEU:HD12	1.45	0.77
14:AN:8:LYS:CE	14:AN:93:TYR:HB3	2.14	0.77
14:AN:38:GLU:N	14:AN:39:PRO:HD3	1.99	0.77
15:AO:61:HIS:CA	15:AO:64:ARG:HD3	2.13	0.77
17:AQ:1:MET:CG	17:AQ:2:ASN:H	1.95	0.77
17:AQ:28:VAL:HB	17:AQ:52:ILE:HD12	1.64	0.77
19:AS:64:HIS:HA	19:AS:97:LYS:CD	2.14	0.77
28:Ab:17:ASP:O	28:Ab:19:ARG:N	2.16	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:30:ARG:HD2	31:Ae:44:LYS:HD2	1.65	0.77
34:BA:194:C:C2'	34:BA:195:A:H5''	2.14	0.77
34:BA:718:G:H4'	44:BO:117:ASN:HD21	1.48	0.77
34:BA:751:U:H4'	48:BS:24:SER:OG	1.83	0.77
34:BA:1053:G:C6	34:BA:1199:U:H2'	2.18	0.77
34:BA:1181:G:N7	34:BA:1182:G:N3	2.32	0.77
34:BA:1269:A:O4'	34:BA:1312:G:N2	2.17	0.77
34:BA:1405:G:H21	34:BA:1517:G:H22	0.77	0.77
34:BA:1516:G:N3	34:BA:1518:A:OP2	2.18	0.77
35:BF:82:ARG:HA	35:BF:92:TYR:HE1	1.47	0.77
36:BG:91:LEU:HD11	36:BG:99:VAL:N	1.99	0.77
40:BK:51:GLN:HE22	40:BK:58:PRO:HG3	1.48	0.77
40:BK:65:ALA:O	40:BK:69:VAL:HG23	1.85	0.77
42:BM:108:VAL:O	42:BM:110:GLU:N	2.18	0.77
43:BN:87:THR:O	43:BN:88:LEU:HD23	1.84	0.77
55:CA:15:ASP:OD1	55:CA:106:MET:HG2	1.84	0.77
55:CA:119:TYR:HB3	55:CA:120:GLY:CA	2.13	0.77
1:AA:13:A:N6	1:AA:525:U:C6	2.53	0.77
1:AA:574:C:N4	1:AA:2054:A:H5''	1.99	0.77
1:AA:730:C:H2'	1:AA:731:C:C6	2.20	0.77
1:AA:775:G:H21	1:AA:787:U:H2'	1.49	0.77
1:AA:1037:G:O6	1:AA:1119:C:N4	2.18	0.77
1:AA:1069:A:C6	1:AA:1096:A:OP1	2.36	0.77
1:AA:1081:U:O4'	10:AJ:125:ARG:HB3	1.84	0.77
1:AA:1142:U:C6	1:AA:1142(A):A:H8	2.01	0.77
1:AA:1494:A:H2'	1:AA:1494:A:N3	1.97	0.77
1:AA:1762:A:C8	1:AA:1762:A:C3'	2.60	0.77
1:AA:1954:G:H8	1:AA:1954:G:OP2	1.65	0.77
1:AA:2268:A:H5'	1:AA:2269:A:OP2	1.85	0.77
1:AA:2647:U:H2'	1:AA:2648:C:H6	1.48	0.77
3:AC:22:ILE:HD13	3:AC:190:ARG:NH1	1.99	0.77
3:AC:97:GLU:CG	3:AC:119:VAL:HB	2.14	0.77
4:AD:175:LEU:C	4:AD:182:LEU:HD23	2.10	0.77
5:AE:7:VAL:HG22	5:AE:192:ASN:HA	1.66	0.77
5:AE:136:ARG:O	5:AE:136:ARG:HD3	1.84	0.77
6:AF:103:LYS:HA	6:AF:106:ARG:CG	2.15	0.77
6:AF:132:VAL:C	6:AF:134:GLY:H	1.91	0.77
6:AF:134:GLY:O	6:AF:166:ALA:HB2	1.83	0.77
7:AG:15:VAL:O	7:AG:18:GLU:HB3	1.83	0.77
7:AG:131:TYR:HB2	7:AG:159:VAL:H	1.49	0.77
7:AG:141:PHE:CE1	7:AG:145:THR:HA	2.19	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:69:ARG:HG3	8:AH:70:THR:N	2.00	0.77
10:AJ:23:VAL:HG11	10:AJ:37:PHE:CB	2.14	0.77
11:AK:22:THR:HG22	11:AK:61:ARG:NH2	1.98	0.77
14:AN:43:THR:HG23	14:AN:46:GLN:CB	2.14	0.77
14:AN:118:LEU:CD1	14:AN:131:ILE:HG21	2.15	0.77
14:AN:134:ARG:HE	14:AN:137:TYR:CA	1.96	0.77
19:AS:35:LEU:O	19:AS:61:VAL:HA	1.83	0.77
20:AT:36:LEU:HD11	20:AT:47:VAL:CG2	2.15	0.77
22:AV:12:THR:HG21	22:AV:71:LYS:CA	2.14	0.77
23:AW:103:ARG:HB2	23:AW:138:GLU:HG2	1.66	0.77
26:AZ:54:VAL:CG2	26:AZ:55:ARG:H	1.97	0.77
29:Ac:16:CYS:HB3	29:Ac:49:HIS:CG	2.18	0.77
29:Ac:30:THR:HG22	29:Ac:31:PRO:HD3	1.64	0.77
30:Ad:43:THR:O	30:Ad:46:VAL:HB	1.84	0.77
34:BA:110:C:H2'	34:BA:111:G:O4'	1.85	0.77
34:BA:120:A:H2'	34:BA:122:G:N7	1.98	0.77
34:BA:225:C:C2'	34:BA:226:G:H5'	2.14	0.77
34:BA:303:A:H2'	34:BA:304:U:O4'	1.83	0.77
34:BA:482:A:H2	34:BA:483:C:O4'	1.67	0.77
35:BF:130:ARG:NE	35:BF:130:ARG:HA	1.99	0.77
37:BH:165:MET:HE3	37:BH:167:GLY:H	1.46	0.77
38:BI:59:GLY:O	38:BI:62:ALA:HB3	1.84	0.77
43:BN:30:SER:HB2	43:BN:81:THR:N	2.00	0.77
44:BO:73:MET:HG2	44:BO:103:LEU:HD13	1.65	0.77
46:BQ:14:ARG:HB2	46:BQ:41:PRO:HA	1.67	0.77
50:BU:5:VAL:CG1	50:BU:59:ILE:O	2.31	0.77
52:BW:38:SER:HB3	52:BW:71:LEU:CD1	2.15	0.77
55:CA:64:ILE:HD12	55:CA:187:TYR:HB3	1.65	0.77
55:CA:300:LEU:HB2	55:CA:301:SER:HA	1.66	0.77
1:AA:400:G:H1	27:Aa:63:TYR:HH	1.32	0.77
1:AA:477:A:N6	1:AA:502:A:N6	2.24	0.77
1:AA:535:C:O2'	1:AA:536:A:H5'	1.83	0.77
1:AA:1037:G:C6	1:AA:1119:C:C4	2.72	0.77
1:AA:1275:A:N6	1:AA:1296:G:O4'	2.17	0.77
1:AA:1342:A:H2'	1:AA:1345:C:N4	1.99	0.77
1:AA:1533:C:C2	1:AA:1539:G:N2	2.51	0.77
1:AA:1603:A:OP2	1:AA:1603:A:H3'	1.84	0.77
1:AA:1835:G:H2'	1:AA:1836:C:H5'	1.67	0.77
1:AA:2378:A:C2	1:AA:2379:G:H1'	2.18	0.77
1:AA:2488:A:O2'	1:AA:2489:G:H5'	1.84	0.77
1:AA:2667:C:H2'	1:AA:2668:G:O4'	1.85	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2888:C:H2'	1:AA:2889:C:H6	1.50	0.77
3:AC:155:GLU:HG3	3:AC:159:GLY:O	1.83	0.77
4:AD:117:VAL:HG13	4:AD:129:ASN:CG	2.08	0.77
4:AD:243:GLY:O	4:AD:244:ARG:HB2	1.85	0.77
5:AE:47:VAL:HG22	5:AE:79:ARG:HB2	1.64	0.77
5:AE:179:GLU:HB2	5:AE:181:LEU:CD1	2.15	0.77
9:AI:141:VAL:CB	33:Ag:134:UNK:CB	2.53	0.77
10:AJ:54:PRO:HD2	10:AJ:70:LYS:HB3	1.66	0.77
11:AK:74:ARG:HG3	11:AK:82:LEU:CD2	2.11	0.77
11:AK:103:VAL:CG2	11:AK:104:LYS:N	2.47	0.77
12:AL:10:VAL:CG1	12:AL:11:ALA:H	1.88	0.77
17:AQ:7:ILE:HG13	17:AQ:8:LYS:H	1.46	0.77
17:AQ:26:ASP:HA	17:AQ:100:TYR:CZ	2.20	0.77
17:AQ:39:ARG:CD	34:BA:345:C:P	2.68	0.77
18:AR:50:ARG:HE	19:AS:75:PHE:HE2	1.30	0.77
18:AR:93:LYS:HB2	19:AS:10:LYS:HD2	1.65	0.77
23:AW:20:ARG:CZ	23:AW:20:ARG:HB2	2.15	0.77
34:BA:225:C:H2'	34:BA:226:G:H5'	1.64	0.77
34:BA:243:A:H61	34:BA:283:C:H41	1.30	0.77
34:BA:332:G:H2'	34:BA:333:G:H8	1.48	0.77
34:BA:1437:C:H2'	34:BA:1438:G:H8	1.50	0.77
36:BG:131:ARG:HG3	36:BG:166:GLU:OE2	1.85	0.77
37:BH:31:CYS:O	37:BH:33:MET:HE3	1.85	0.77
37:BH:203:VAL:O	37:BH:206:PHE:HB3	1.85	0.77
39:BJ:76:ALA:HB3	39:BJ:80:ARG:NH2	1.98	0.77
40:BK:115:ARG:CB	40:BK:118:VAL:HG23	2.11	0.77
46:BQ:80:ARG:HB3	52:BW:65:ASN:ND2	1.99	0.77
46:BQ:102:ARG:O	46:BQ:103:THR:OG1	2.00	0.77
50:BU:31:LEU:O	50:BU:31:LEU:HG	1.84	0.77
55:CA:2:ILE:HD13	55:CA:267:LEU:HB3	1.67	0.77
55:CA:156:GLU:HG3	55:CA:159:ASP:CB	2.13	0.77
55:CA:395:ARG:CA	55:CA:474:ASP:HB2	1.96	0.77
55:CA:406:ASP:CA	55:CA:407:VAL:HG22	2.10	0.77
1:AA:197:A:H61	1:AA:248:G:H22	1.30	0.77
1:AA:456:C:H5	21:AU:68:ARG:HH12	1.33	0.77
1:AA:866:A:N3	1:AA:866:A:H2'	1.98	0.77
1:AA:962:G:N2	1:AA:963:U:C2	2.52	0.77
1:AA:1312:U:C3'	1:AA:1313:U:H6	1.97	0.77
1:AA:1312:U:C5	21:AU:62:LYS:HG3	2.20	0.77
1:AA:1969:A:H5'	1:AA:1970:A:OP1	1.85	0.77
1:AA:2006:C:O2'	1:AA:2823:A:N3	2.16	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2053:G:O2'	1:AA:2054:A:H5'	1.85	0.77
1:AA:2072:G:C6	1:AA:2073:C:N4	2.53	0.77
1:AA:2334:G:O2'	16:AP:15:ARG:HG3	1.84	0.77
1:AA:2784:C:H4'	5:AE:41:LYS:HE2	1.65	0.77
2:AB:77:U:H2'	2:AB:78:A:C8	2.19	0.77
5:AE:169:ASN:HD22	5:AE:170:LEU:H	1.32	0.77
7:AG:144:ILE:HG23	7:AG:147:ASP:OD1	1.85	0.77
8:AH:33:LEU:HD13	8:AH:75:ALA:HA	1.66	0.77
11:AK:97:ARG:O	11:AK:100:GLU:HB2	1.85	0.77
12:AL:6:THR:HA	12:AL:7:TYR:CD1	2.19	0.77
13:AM:15:ARG:CZ	13:AM:16:ARG:H	1.97	0.77
16:AP:3:ARG:CG	16:AP:4:LEU:HG	2.13	0.77
17:AQ:7:ILE:O	17:AQ:11:GLU:OE1	2.02	0.77
21:AU:5:TYR:HB3	25:AY:24:LYS:HD3	1.65	0.77
24:AX:32:ARG:O	24:AX:35:ASN:HB2	1.84	0.77
26:AZ:26:LEU:CB	26:AZ:28:LEU:HD21	2.15	0.77
27:Aa:38:LYS:HG2	27:Aa:39:CYS:H	1.47	0.77
32:Af:10:ILE:O	32:Af:12:ASP:N	2.14	0.77
34:BA:397:A:O2'	34:BA:398:C:H3'	1.84	0.77
34:BA:501:C:H1'	34:BA:549:C:H1'	1.66	0.77
34:BA:789:U:C2	34:BA:791:G:OP2	2.38	0.77
34:BA:923:A:P	38:BI:21:ALA:HB2	2.25	0.77
34:BA:960:U:N3	34:BA:1225:A:N7	2.33	0.77
34:BA:978:A:H61	34:BA:1361:G:H22	1.28	0.77
34:BA:1089:G:H2'	34:BA:1090:U:H5'	1.65	0.77
34:BA:1311:G:C4	34:BA:1327:C:C6	2.67	0.77
35:BF:130:ARG:HD3	35:BF:131:PRO:HD3	1.66	0.77
35:BF:144:ARG:HA	35:BF:147:LYS:CB	2.15	0.77
36:BG:50:ALA:O	36:BG:72:LYS:HD2	1.84	0.77
37:BH:143:GLY:HA2	37:BH:185:PHE:CB	2.14	0.77
38:BI:81:GLU:HA	38:BI:90:VAL:HG22	1.67	0.77
40:BK:69:VAL:CG2	40:BK:135:VAL:HG22	2.15	0.77
41:BL:39:LEU:HB3	41:BL:45:ILE:HG21	1.65	0.77
42:BM:3:GLN:HA	42:BM:20:ARG:HG2	1.65	0.77
43:BN:7:LYS:HG3	43:BN:71:LEU:CD1	2.15	0.77
55:CA:40:GLU:CA	55:CA:41:ARG:HB2	2.14	0.77
55:CA:158:LEU:CA	55:CA:159:ASP:HB3	2.15	0.77
55:CA:165:ALA:HA	55:CA:171:ILE:CG2	2.12	0.77
1:AA:39:C:H2'	1:AA:40:C:H6	1.50	0.77
1:AA:861:A:OP2	1:AA:862:G:OP2	2.02	0.77
1:AA:1058:G:C1'	10:AJ:116:ASN:HD22	1.98	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1567:A:H4'	1:AA:1568:G:N2	1.99	0.77
1:AA:1725:G:C6	1:AA:1741:C:N4	2.52	0.77
1:AA:1935:G:C3'	1:AA:1962:C:H42	1.98	0.77
1:AA:1935:G:H2'	1:AA:1962:C:N4	2.00	0.77
1:AA:2265:U:N3	1:AA:2266:A:N7	2.32	0.77
1:AA:2415:G:H5''	13:AM:61:ARG:HB2	1.65	0.77
1:AA:2570:G:N2	1:AA:2571:C:C2	2.52	0.77
1:AA:2603:G:OP2	24:AX:1:MET:HB2	1.84	0.77
1:AA:2658:C:C4	1:AA:2664:G:C2	2.73	0.77
3:AC:22:ILE:HD11	3:AC:226:PRO:HA	1.67	0.77
3:AC:162:GLU:HG2	3:AC:163:PHE:N	1.98	0.77
5:AE:13:ARG:CG	5:AE:22:PRO:HD3	2.07	0.77
5:AE:45:THR:HB	5:AE:81:ILE:CA	2.05	0.77
7:AG:75:LYS:HB3	7:AG:84:LYS:N	1.98	0.77
9:AI:97:ALA:CB	9:AI:132:ASP:O	2.32	0.77
11:AK:55:VAL:HG21	11:AK:127:ASP:N	1.99	0.77
11:AK:115:ARG:HA	11:AK:118:LYS:CD	2.15	0.77
14:AN:23:GLY:N	14:AN:99:PRO:HG3	2.00	0.77
15:AO:12:ARG:NH1	15:AO:16:HIS:HB3	1.99	0.77
20:AT:59:VAL:HA	20:AT:63:ASP:CA	2.13	0.77
21:AU:27:THR:HG22	21:AU:80:ILE:HG23	1.65	0.77
29:Ac:15:GLU:OE2	29:Ac:21:TYR:HB3	1.84	0.77
31:Ae:25:MET:HB3	31:Ae:44:LYS:HE2	1.67	0.77
34:BA:43:C:H2'	34:BA:44:G:H8	1.50	0.77
34:BA:362:G:H8	45:BP:34:ARG:NH2	1.80	0.77
34:BA:620:C:N1	37:BH:135:LEU:HD13	2.00	0.77
34:BA:842:C:H4'	34:BA:848:C:C2	2.19	0.77
34:BA:1164:G:C6	34:BA:1165:C:C4	2.73	0.77
34:BA:1315:U:O2	34:BA:1361:G:N3	2.18	0.77
34:BA:1463:C:O2'	34:BA:1464:G:H5'	1.85	0.77
35:BF:71:VAL:O	35:BF:164:VAL:HG23	1.85	0.77
36:BG:34:LEU:HD23	36:BG:35:GLU:N	1.99	0.77
36:BG:36:ASP:HA	36:BG:39:ILE:HD12	1.66	0.77
37:BH:74:GLN:O	37:BH:77:ASN:HB2	1.84	0.77
37:BH:154:ASN:ND2	37:BH:155:LEU:HD22	2.00	0.77
37:BH:170:VAL:HG23	37:BH:176:LEU:HD22	1.64	0.77
38:BI:78:HIS:CB	41:BL:104:ARG:HD3	2.14	0.77
39:BJ:6:VAL:HG22	39:BJ:8:ILE:CD1	2.12	0.77
40:BK:45:ASP:O	40:BK:48:LYS:HB2	1.85	0.77
42:BM:11:LYS:N	42:BM:104:ARG:HH21	1.83	0.77
43:BN:49:VAL:HG12	47:BR:45:ARG:HD2	1.64	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:5:PRO:HB3	45:BP:10:LEU:HD11	1.66	0.77
48:BS:39:LEU:HD13	48:BS:56:LEU:HD13	1.65	0.77
52:BW:36:ARG:O	52:BW:71:LEU:HB2	1.83	0.77
55:CA:89:MET:HA	55:CA:92:VAL:CG2	2.14	0.77
1:AA:41:C:O2'	1:AA:43:G:H5'	1.84	0.77
1:AA:144:C:H2'	1:AA:145:G:O4'	1.85	0.77
1:AA:270(X):G:N1	1:AA:270(Y):G:H1'	2.00	0.77
1:AA:319:C:H2'	1:AA:320:A:O4'	1.85	0.77
1:AA:559:G:C2'	1:AA:560:C:C6	2.66	0.77
1:AA:752:A:H62	1:AA:1781:C:C1'	1.98	0.77
1:AA:1071:G:C6	1:AA:1089:G:N2	2.14	0.77
1:AA:1131:G:N2	11:AK:72:TYR:CE2	2.53	0.77
1:AA:1742:C:H2'	1:AA:1743:G:C4'	2.14	0.77
1:AA:1815:A:H1'	1:AA:1817:G:C4	2.20	0.77
1:AA:1906:G:C4	1:AA:1929:G:N7	2.51	0.77
1:AA:2247:A:O2'	1:AA:2248:C:H5'	1.84	0.77
1:AA:2574:G:H1'	5:AE:143:ASN:ND2	1.99	0.77
1:AA:2595:G:H1'	1:AA:2599:G:N2	2.00	0.77
1:AA:2648:C:C2	1:AA:2649:U:N3	2.52	0.77
1:AA:2698:U:H2'	1:AA:2699:C:C5	2.18	0.77
2:AB:100:G:H2'	2:AB:101:A:H8	1.49	0.77
4:AD:37:LEU:HD11	4:AD:63:ARG:CA	2.15	0.77
4:AD:229:VAL:HG22	4:AD:230:ASP:OD1	1.84	0.77
4:AD:234:GLY:H	4:AD:241:PRO:CG	1.98	0.77
5:AE:9:VAL:HG12	5:AE:192:ASN:HD22	1.49	0.77
5:AE:49:LEU:HD21	5:AE:75:VAL:C	2.09	0.77
6:AF:104:LYS:O	6:AF:108:LYS:HE3	1.85	0.77
7:AG:57:ALA:HA	7:AG:67:LYS:C	2.09	0.77
10:AJ:51:ALA:HB3	10:AJ:72:PRO:HB3	1.67	0.77
13:AM:38:GLN:O	13:AM:40:SER:N	2.18	0.77
13:AM:59:LEU:HD12	13:AM:60:MET:SD	2.24	0.77
14:AN:6:ARG:HH21	14:AN:8:LYS:HG3	1.49	0.77
17:AQ:18:ASP:CG	17:AQ:81:PRO:HG3	2.10	0.77
17:AQ:46:GLU:OE2	17:AQ:47:GLY:N	2.16	0.77
29:Ac:27:LYS:HG2	29:Ac:29:ASN:HD21	1.50	0.77
31:Ae:12:LYS:HG2	31:Ae:13:ARG:HH12	1.50	0.77
34:BA:20:U:H2'	34:BA:21:G:O4'	1.84	0.77
34:BA:67:C:H4'	34:BA:172:A:O4'	1.84	0.77
34:BA:518:C:O2'	34:BA:519:C:OP2	2.00	0.77
34:BA:562:C:H5''	34:BA:563:A:OP1	1.84	0.77
34:BA:1239:A:H2'	34:BA:1239:A:N3	1.99	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1242:C:H5''	54:BY:10:ARG:NH1	1.95	0.77
34:BA:1262:C:H2'	34:BA:1263:C:C6	2.19	0.77
34:BA:1289:A:N6	34:BA:1371:G:O2'	2.18	0.77
34:BA:1376:U:H2'	34:BA:1377:A:C8	2.18	0.77
35:BF:25:ASN:O	35:BF:25:ASN:CG	2.27	0.77
36:BG:31:HIS:ND1	36:BG:34:LEU:HD13	1.99	0.77
36:BG:172:ARG:HH22	36:BG:174:PRO:HG3	1.49	0.77
42:BM:103:THR:HG22	42:BM:104:ARG:N	2.00	0.77
45:BP:85:ILE:O	45:BP:85:ILE:HG23	1.84	0.77
48:BS:6:GLU:OE2	48:BS:6:GLU:N	2.16	0.77
48:BS:39:LEU:HD22	48:BS:56:LEU:HD22	1.66	0.77
52:BW:3:ARG:CZ	52:BW:45:VAL:HG13	2.13	0.77
55:CA:14:VAL:N	55:CA:108:GLN:CG	2.23	0.77
55:CA:95:VAL:HG23	55:CA:123:PRO:CA	2.09	0.77
55:CA:180:ALA:HB3	55:CA:181:GLU:C	2.10	0.77
55:CA:401:GLU:O	55:CA:467:SER:HB2	1.85	0.77
1:AA:52:A:H2'	1:AA:53:A:C8	2.14	0.77
1:AA:311:A:N6	1:AA:329:G:H5'	2.00	0.77
1:AA:426:C:H2'	1:AA:427:U:C6	2.20	0.77
1:AA:499:U:C5	1:AA:500:G:N3	2.53	0.77
1:AA:621:A:N6	1:AA:622:G:C2	2.52	0.77
1:AA:1105:U:O3'	1:AA:1106:G:C3'	2.30	0.77
1:AA:1269:A:H61	1:AA:2011:U:H3	1.32	0.77
1:AA:1863:G:H2'	1:AA:1864:U:H6	1.48	0.77
1:AA:2031:A:H62	1:AA:2498:C:H1'	1.48	0.77
1:AA:2282:G:H1	1:AA:2427:C:N4	1.82	0.77
1:AA:2420:C:H5''	31:Ae:35:GLN:HE22	1.50	0.77
1:AA:2582:G:H5'	1:AA:2582:G:C8	2.20	0.77
1:AA:2656:U:H2'	1:AA:2657:A:H5''	1.67	0.77
1:AA:2670:A:H5'	5:AE:206:LYS:NZ	1.99	0.77
1:AA:2793:G:C6	1:AA:2794:C:C4	2.73	0.77
1:AA:2797:U:H5''	1:AA:2798:C:OP1	1.85	0.77
1:AA:2808:U:O2	1:AA:2810:A:N7	2.18	0.77
1:AA:2865:U:C4	1:AA:2866:U:H5	2.02	0.77
3:AC:64:LEU:CD2	3:AC:191:ALA:HB3	2.15	0.77
3:AC:148:ASN:HD21	3:AC:152:ILE:HG13	1.47	0.77
4:AD:199:ALA:O	4:AD:202:LYS:HB2	1.84	0.77
6:AF:182:ASN:HD21	6:AF:185:ASP:CG	1.93	0.77
7:AG:141:PHE:C	7:AG:143:GLU:N	2.36	0.77
10:AJ:28:GLY:O	55:CA:431:PRO:HG2	1.85	0.77
12:AL:101:PRO:HG3	34:BA:346:G:H5''	1.65	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:131:ILE:O	14:AN:132:VAL:HG13	1.84	0.77
15:AO:105:ARG:HG3	15:AO:106:GLY:H	1.49	0.77
20:AT:75:TYR:O	20:AT:104:THR:HG23	1.85	0.77
22:AV:14:LEU:CD2	22:AV:19:LYS:HB2	2.15	0.77
23:AW:24:LEU:HD13	23:AW:83:PRO:CD	2.14	0.77
23:AW:157:LEU:CD2	23:AW:161:VAL:HA	2.15	0.77
24:AX:28:GLY:N	24:AX:67:VAL:HB	1.98	0.77
28:Ab:36:CYS:HB2	28:Ab:37:LYS:HD2	1.65	0.77
30:Ad:21:ARG:HB3	30:Ad:31:LEU:CD1	2.13	0.77
31:Ae:5:LYS:HG3	31:Ae:10:ALA:HB2	1.67	0.77
34:BA:522:C:N4	34:BA:523:A:N6	2.33	0.77
34:BA:544:G:H2'	34:BA:545:C:C6	2.20	0.77
34:BA:766:A:H2'	34:BA:767:A:C8	2.20	0.77
34:BA:768:A:H8	34:BA:768:A:O5'	1.67	0.77
34:BA:1250:A:H4'	42:BM:67:GLY:C	2.10	0.77
34:BA:1270:C:O2'	34:BA:1313:U:C5'	2.31	0.77
35:BF:77:ALA:HB2	35:BF:211:ILE:HD13	1.67	0.77
35:BF:145:LEU:O	35:BF:149:LEU:CB	2.32	0.77
35:BF:184:VAL:C	35:BF:198:ASP:HB2	2.09	0.77
37:BH:83:SER:HA	37:BH:89:THR:OG1	1.85	0.77
37:BH:135:LEU:C	37:BH:137:SER:H	1.92	0.77
39:BJ:1:MET:HE2	39:BJ:68:PRO:HG3	1.66	0.77
42:BM:16:ARG:HG2	42:BM:18:PHE:CZ	2.20	0.77
42:BM:34:ASN:OD1	42:BM:43:ALA:HB2	1.85	0.77
43:BN:25:GLU:O	43:BN:28:ARG:HB2	1.84	0.77
44:BO:102:GLY:C	44:BO:104:GLN:N	2.40	0.77
45:BP:36:VAL:C	45:BP:58:VAL:HG13	2.09	0.77
51:BV:37:VAL:HG12	51:BV:41:LYS:CE	2.14	0.77
55:CA:248:ASN:ND2	55:CA:273:ILE:CG1	2.18	0.77
55:CA:318:PHE:HZ	55:CA:519:TYR:HD1	1.20	0.77
1:AA:221:A:H4'	1:AA:222:A:C5'	2.07	0.77
1:AA:326:G:H22	1:AA:337:C:H1'	1.49	0.77
1:AA:388:G:C2'	1:AA:390:A:N7	2.48	0.77
1:AA:704:G:H22	1:AA:726:G:H1'	1.48	0.77
1:AA:1068:G:C1'	1:AA:1096:A:H4'	2.13	0.77
1:AA:1225:C:O4'	19:AS:87:HIS:HE1	1.67	0.77
1:AA:1420:U:H1'	1:AA:1421:G:N7	2.00	0.77
1:AA:1520:U:H2'	1:AA:1521:G:C5'	2.07	0.77
1:AA:2135:A:N7	1:AA:2160:G:H1'	1.99	0.77
1:AA:2517:C:C4	1:AA:2542:A:N7	2.53	0.77
4:AD:176:ARG:HH22	4:AD:270:ILE:CD1	1.98	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:25:VAL:HG23	5:AE:182:LEU:O	1.85	0.77
5:AE:171:GLU:OE1	5:AE:172:VAL:N	2.18	0.77
6:AF:81:PRO:HG2	6:AF:82:ILE:HD12	1.67	0.77
7:AG:92:VAL:CG1	7:AG:94:LEU:HD22	2.15	0.77
8:AH:29:PRO:HD3	8:AH:79:VAL:C	2.09	0.77
10:AJ:12:LEU:HD13	10:AJ:41:PHE:CZ	2.11	0.77
12:AL:37:ASP:N	12:AL:61:VAL:HB	1.98	0.77
12:AL:62:VAL:O	12:AL:82:ASN:O	2.03	0.77
12:AL:122:LEU:CG	17:AQ:71:GLY:HA3	2.15	0.77
13:AM:28:GLY:O	13:AM:29:LYS:HG3	1.85	0.77
15:AO:38:VAL:CB	15:AO:39:PRO:HD3	2.14	0.77
16:AP:64:GLU:OE2	16:AP:67:ARG:HB3	1.85	0.77
16:AP:92:TYR:CG	16:AP:93:LYS:N	2.53	0.77
17:AQ:80:SER:HB3	17:AQ:81:PRO:HD3	1.67	0.77
19:AS:52:VAL:HG12	19:AS:53:GLU:N	2.00	0.77
20:AT:76:VAL:HG22	20:AT:77:ASP:N	1.99	0.77
25:AY:36:ILE:HG23	25:AY:37:GLY:H	1.49	0.77
27:Aa:53:GLU:CG	27:Aa:54:GLY:H	1.96	0.77
28:Ab:45:VAL:HB	28:Ab:50:GLY:CA	2.14	0.77
29:Ac:35:GLU:OE1	29:Ac:52:VAL:HG13	1.84	0.77
32:Af:7:VAL:HG13	32:Af:34:GLN:OE1	1.84	0.77
34:BA:84:U:H2'	34:BA:85:U:O4'	1.85	0.77
34:BA:337:C:H2'	34:BA:338:A:C8	2.20	0.77
34:BA:687:A:N6	34:BA:703:G:H1'	2.00	0.77
35:BF:139:LYS:HG3	35:BF:140:HIS:H	1.50	0.77
35:BF:212:GLN:O	35:BF:216:SER:HB2	1.85	0.77
36:BG:11:ARG:HG3	36:BG:16:ARG:HE	1.50	0.77
36:BG:84:ILE:HG13	36:BG:101:LEU:HD13	1.66	0.77
36:BG:142:MET:HB3	36:BG:170:GLN:NE2	2.00	0.77
39:BJ:22:GLU:OE2	39:BJ:82:ARG:HD2	1.85	0.77
39:BJ:98:LEU:HG	51:BV:28:GLU:CG	2.14	0.77
40:BK:15:ASP:OD1	40:BK:18:TYR:HB2	1.85	0.77
41:BL:22:GLU:CA	41:BL:63:LEU:HD22	2.14	0.77
42:BM:4:TYR:HE1	42:BM:59:PHE:CE2	2.02	0.77
42:BM:79:LEU:CD1	42:BM:101:PHE:HB3	2.14	0.77
43:BN:24:VAL:HG21	43:BN:37:PRO:HD3	1.67	0.77
55:CA:81:PHE:HB2	55:CA:344:ALA:HB3	1.66	0.77
55:CA:220:VAL:CB	55:CA:274:VAL:HG21	2.15	0.77
1:AA:7:G:C2	1:AA:2896:C:H2'	2.19	0.76
1:AA:242:G:H3'	31:Ae:4:MET:SD	2.24	0.76
1:AA:460:A:H2'	1:AA:461:C:H6	1.50	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:514:A:C2	1:AA:515:A:C4	2.73	0.76
1:AA:942:G:C3'	13:AM:32:THR:HG22	2.15	0.76
1:AA:1123:C:H2'	1:AA:1124:C:C6	2.20	0.76
1:AA:1446:C:H2'	1:AA:1447:G:H8	1.48	0.76
1:AA:1602:U:N3	1:AA:1602:U:OP2	2.18	0.76
1:AA:1657:C:OP1	5:AE:136:ARG:NH1	2.18	0.76
1:AA:1658:C:P	5:AE:134:ILE:HB	2.25	0.76
1:AA:1766:U:O2'	1:AA:1767:C:H5'	1.86	0.76
1:AA:1817:G:O2'	1:AA:1818:U:H5'	1.84	0.76
1:AA:1872:A:C2'	1:AA:1878:G:H5'	2.11	0.76
1:AA:2063:C:OP2	1:AA:2064:C:OP2	2.03	0.76
1:AA:2064:C:C1'	1:AA:2450:A:N6	2.47	0.76
1:AA:2208:U:O2'	4:AD:151:LYS:HD3	1.85	0.76
1:AA:2333:A:H4'	1:AA:2335:A:O4'	1.85	0.76
1:AA:2415:G:OP1	13:AM:61:ARG:NH1	2.17	0.76
1:AA:2453:A:H61	1:AA:2500:U:H3	1.29	0.76
1:AA:2459:A:H2'	1:AA:2460:U:C4'	2.14	0.76
1:AA:2553:G:N2	1:AA:2554:U:O2'	2.17	0.76
1:AA:2668:G:C2	1:AA:2669:G:C6	2.73	0.76
1:AA:2749:A:C4'	8:AH:62:LYS:HG3	2.15	0.76
3:AC:32:LEU:CB	3:AC:220:PRO:HG2	2.14	0.76
3:AC:214:VAL:HG23	3:AC:224:ILE:HD13	1.67	0.76
4:AD:142:VAL:O	4:AD:163:ALA:CB	2.29	0.76
4:AD:147:LEU:H	4:AD:147:LEU:HD23	1.51	0.76
7:AG:131:TYR:CD1	7:AG:132:ASN:N	2.53	0.76
8:AH:154:PRO:O	8:AH:155:SER:HB3	1.85	0.76
9:AI:7:VAL:O	9:AI:11:ALA:HB3	1.86	0.76
10:AJ:100:THR:HG1	10:AJ:103:GLN:CB	1.98	0.76
11:AK:36:GLY:O	11:AK:47:ALA:HB3	1.84	0.76
14:AN:26:TYR:CD1	14:AN:27:VAL:N	2.49	0.76
16:AP:60:GLY:C	16:AP:62:LYS:H	1.93	0.76
17:AQ:18:ASP:HB3	17:AQ:81:PRO:CA	2.14	0.76
17:AQ:19:LEU:O	17:AQ:20:PRO:C	2.26	0.76
19:AS:28:GLU:C	19:AS:30:GLY:H	1.92	0.76
19:AS:70:ILE:HG23	19:AS:90:PRO:HA	1.65	0.76
22:AV:14:LEU:HD22	22:AV:19:LYS:HB2	1.65	0.76
24:AX:21:LEU:HD13	24:AX:41:ARG:HG2	1.67	0.76
33:Ag:290:UNK:N	33:Ag:343:UNK:HA	2.00	0.76
34:BA:129(A):G:H4'	34:BA:130:A:O5'	1.85	0.76
34:BA:153:C:H2'	34:BA:154:C:H6	1.51	0.76
34:BA:186(B):C:O2'	34:BA:186(C):G:H5'	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:280:C:H1'	50:BU:38:ARG:NE	1.98	0.76
34:BA:570:G:C2	34:BA:873:A:N1	2.53	0.76
34:BA:633:G:H2'	34:BA:634:C:C6	2.18	0.76
34:BA:1157:A:H5''	34:BA:1158:C:OP1	1.85	0.76
34:BA:1415:G:N1	34:BA:1486:G:C5	2.53	0.76
39:BJ:96:PRO:O	39:BJ:97:PHE:HB2	1.84	0.76
40:BK:36:LYS:NZ	40:BK:36:LYS:HA	1.98	0.76
40:BK:88:PRO:HG2	40:BK:152:ALA:HB2	1.67	0.76
45:BP:113:ARG:NH2	45:BP:115:LYS:O	2.18	0.76
45:BP:117:ARG:HH22	45:BP:124:LYS:HG3	1.50	0.76
47:BR:51:GLY:C	47:BR:53:LEU:H	1.92	0.76
50:BU:63:ARG:HG2	50:BU:64:PRO:HD2	1.67	0.76
1:AA:221:A:O2'	1:AA:222:A:OP2	2.02	0.76
1:AA:401:A:N6	1:AA:423:A:N1	2.31	0.76
1:AA:516:C:O2'	1:AA:517:C:H5'	1.84	0.76
1:AA:704:G:H21	1:AA:725:G:H21	1.29	0.76
1:AA:727:A:N3	1:AA:728:G:H5'	2.00	0.76
1:AA:755:C:H2'	1:AA:756:C:H6	1.50	0.76
1:AA:861:A:H62	1:AA:916:G:H21	0.80	0.76
1:AA:980:A:H2	1:AA:2038:G:O4'	1.69	0.76
1:AA:1000:A:H61	1:AA:1155:A:H5'	1.49	0.76
1:AA:1021:A:H2'	1:AA:1022:G:OP1	1.85	0.76
1:AA:1033:U:C5'	32:Af:16:VAL:HG21	2.16	0.76
1:AA:1313:U:H2'	1:AA:1314:C:C6	2.20	0.76
1:AA:1638:C:H1'	1:AA:2698:U:O2'	1.85	0.76
1:AA:1672:C:C3'	1:AA:1673:U:H5''	2.14	0.76
1:AA:1700:A:C2'	1:AA:1701:A:H5'	2.15	0.76
1:AA:1788:C:H2'	4:AD:222:ARG:NE	2.00	0.76
1:AA:2404:C:H2'	1:AA:2405:G:C8	2.21	0.76
1:AA:2569:G:C2	1:AA:2570:G:C8	2.73	0.76
1:AA:2749:A:H5'	8:AH:62:LYS:O	1.85	0.76
2:AB:73:A:N6	2:AB:104:A:H1'	2.00	0.76
3:AC:214:VAL:CG2	3:AC:224:ILE:HD13	2.13	0.76
5:AE:44:TYR:C	5:AE:45:THR:HG22	2.10	0.76
7:AG:120:LEU:HD22	7:AG:181:ARG:HG2	1.67	0.76
7:AG:165:THR:HB	7:AG:168:GLU:OE1	1.85	0.76
10:AJ:20:ALA:HB3	10:AJ:21:PRO:CD	2.15	0.76
11:AK:17:ASP:HB3	11:AK:21:LYS:NZ	2.00	0.76
11:AK:38:HIS:HB3	11:AK:48:MET:CE	2.14	0.76
14:AN:16:ARG:HG2	14:AN:73:PRO:HD2	1.66	0.76
14:AN:130:LYS:HZ1	14:AN:132:VAL:HG13	1.48	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:36:THR:HB	15:AO:40:LYS:HD3	1.67	0.76
23:AW:94:GLU:HA	23:AW:130:PRO:HB3	1.68	0.76
24:AX:19:LYS:HZ1	24:AX:41:ARG:HE	1.30	0.76
28:Ab:4:HIS:CD2	28:Ab:4:HIS:C	2.62	0.76
30:Ad:43:THR:HG23	30:Ad:46:VAL:HG21	1.67	0.76
34:BA:66:G:H5'	34:BA:173:U:O4	1.86	0.76
34:BA:67:C:H5'	34:BA:172:A:O2'	1.84	0.76
34:BA:307:C:N4	34:BA:308:C:H41	1.84	0.76
34:BA:355:C:N4	34:BA:356:A:H62	1.84	0.76
34:BA:448:A:H2'	34:BA:449:C:C6	2.21	0.76
34:BA:486:U:H2'	34:BA:487:A:O5'	1.84	0.76
34:BA:519:C:H2'	34:BA:520:A:H5'	1.67	0.76
34:BA:964:A:H1'	43:BN:55:LYS:HZ2	1.51	0.76
34:BA:1494:G:O6	56:BA:1601:NMY:H12	1.84	0.76
34:BA:1528:U:O2'	34:BA:1529:G:H3'	1.86	0.76
35:BF:213:LEU:O	35:BF:217:ARG:HD3	1.85	0.76
37:BH:144:ASP:HA	37:BH:184:LYS:NZ	2.00	0.76
39:BJ:76:ALA:HA	39:BJ:79:LEU:CD1	2.15	0.76
43:BN:8:LEU:CD1	43:BN:16:LEU:HD13	2.15	0.76
46:BQ:16:ASP:CB	46:BQ:30:ALA:HB1	2.14	0.76
48:BS:7:GLU:HA	48:BS:10:LYS:CD	2.14	0.76
48:BS:49:ASP:OD2	48:BS:52:SER:HB2	1.85	0.76
49:BT:8:ARG:NH1	49:BT:11:SER:H	1.82	0.76
55:CA:8:ILE:CG2	55:CA:72:ILE:HD13	1.93	0.76
55:CA:69:ARG:CG	55:CA:71:ASN:HB2	2.14	0.76
55:CA:398:GLU:CD	55:CA:444:PRO:CB	2.59	0.76
1:AA:531:C:H5'	1:AA:532:A:C2	2.20	0.76
1:AA:666:G:O4'	31:Ae:3:LYS:HE3	1.85	0.76
1:AA:723:G:O2'	1:AA:724:U:H5'	1.85	0.76
1:AA:847:U:O2	1:AA:934:G:N3	2.19	0.76
1:AA:973:A:O4'	1:AA:1188:U:C4	2.38	0.76
1:AA:1079:C:H2'	1:AA:1080:C:H5'	1.66	0.76
1:AA:1803:A:H4'	4:AD:257:LEU:CD1	2.15	0.76
1:AA:2626:C:H2'	1:AA:2627:G:H8	1.51	0.76
1:AA:2657:A:N6	1:AA:2664:G:C2'	2.48	0.76
1:AA:2756:U:C4	1:AA:2758:A:N6	2.54	0.76
3:AC:22:ILE:HG23	3:AC:189:ILE:HD12	1.67	0.76
3:AC:87:GLU:HG3	3:AC:94:VAL:CG2	2.15	0.76
4:AD:63:ARG:HG3	4:AD:64:ILE:N	2.00	0.76
4:AD:174:ILE:CD1	4:AD:184:LYS:HE3	2.16	0.76
7:AG:26:GLN:NE2	7:AG:31:VAL:CG2	2.47	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:16:SER:HB3	8:AH:27:LYS:HB2	1.65	0.76
8:AH:83:TYR:O	8:AH:135:GLY:N	2.16	0.76
12:AL:11:ALA:N	12:AL:17:ARG:HG3	2.01	0.76
14:AN:46:GLN:OE1	14:AN:125:LEU:C	2.28	0.76
14:AN:77:LYS:HE2	14:AN:87:LYS:HG3	1.66	0.76
15:AO:102:GLU:CG	15:AO:103:ARG:H	1.98	0.76
17:AQ:50:ILE:HD13	17:AQ:76:PHE:HB3	1.66	0.76
17:AQ:102:ILE:O	17:AQ:104:ASN:N	2.19	0.76
19:AS:40:LEU:CD1	19:AS:55:ALA:HA	2.15	0.76
27:Aa:4:GLY:HA2	27:Aa:11:PRO:CB	2.14	0.76
34:BA:65:U:H4'	34:BA:66:G:H5''	1.65	0.76
34:BA:342:C:H2'	34:BA:343:U:C6	2.21	0.76
34:BA:482:A:C2	34:BA:483:C:O4'	2.38	0.76
34:BA:601:C:C2	34:BA:602:A:C8	2.74	0.76
34:BA:601:C:H2'	34:BA:602:A:H8	1.51	0.76
34:BA:714:G:H1'	34:BA:777:A:N7	2.00	0.76
34:BA:986:A:H5'	52:BW:55:LYS:HZ3	1.46	0.76
34:BA:1125:U:H5'	43:BN:38:ILE:HG21	1.67	0.76
34:BA:1158:C:N4	34:BA:1160:G:H1'	2.01	0.76
34:BA:1192:C:C5	34:BA:1193:G:C8	2.74	0.76
34:BA:1259:C:O2	34:BA:1283:G:H1'	1.85	0.76
34:BA:1329:A:HO2'	46:BQ:70:LEU:HD22	1.47	0.76
37:BH:110:PHE:HE1	37:BH:148:VAL:HG23	1.49	0.76
39:BJ:33:TYR:HE2	39:BJ:74:ASP:HB2	1.50	0.76
41:BL:107:LEU:H	41:BL:107:LEU:HD23	1.50	0.76
42:BM:48:GLU:OE1	42:BM:48:GLU:HA	1.85	0.76
46:BQ:98:VAL:HG23	46:BQ:110:ARG:NH1	1.95	0.76
48:BS:36:ILE:HD11	48:BS:60:VAL:HG22	1.66	0.76
50:BU:10:VAL:CG1	50:BU:54:GLY:H	1.99	0.76
50:BU:91:ARG:HA	50:BU:94:ASN:ND2	1.99	0.76
55:CA:6:ARG:CA	55:CA:68:TYR:O	2.32	0.76
55:CA:207:MET:HA	55:CA:226:ILE:HA	1.66	0.76
1:AA:30:G:OP1	18:AR:11:ARG:NH2	2.18	0.76
1:AA:64:A:C5'	21:AU:73:ARG:HA	2.14	0.76
1:AA:740:U:O2'	1:AA:741:G:OP1	2.02	0.76
1:AA:950:G:H2'	1:AA:951:C:C6	2.21	0.76
1:AA:997:G:O2'	1:AA:998:C:H5'	1.85	0.76
1:AA:1000:A:H2'	1:AA:1001:A:O4'	1.85	0.76
1:AA:1023:U:P	1:AA:1025:G:N1	2.59	0.76
1:AA:1203:G:C6	1:AA:1240:U:O2	2.35	0.76
1:AA:2023:G:H5''	1:AA:2617:C:O2'	1.84	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2045:C:O2	28:Ab:22:HIS:CE1	2.39	0.76
1:AA:2096:U:H2'	1:AA:2097:C:C5	2.19	0.76
1:AA:2134:A:H2'	1:AA:2135:A:O5'	1.85	0.76
1:AA:2562:U:H1'	12:AL:23:ARG:HH21	1.51	0.76
1:AA:2649:U:O2'	1:AA:2650:U:H5'	1.86	0.76
1:AA:2756:U:C2	1:AA:2758:A:N6	2.54	0.76
1:AA:2792:G:H1'	1:AA:2805:G:C2	2.20	0.76
1:AA:2845:G:H5''	17:AQ:57:PHE:O	1.86	0.76
3:AC:183:GLU:O	3:AC:186:ALA:HB3	1.85	0.76
4:AD:24:ILE:HG21	4:AD:26:LYS:HE2	1.67	0.76
8:AH:8:PRO:HA	8:AH:51:ARG:NH2	2.01	0.76
8:AH:85:LYS:NZ	8:AH:142:GLY:HA2	2.00	0.76
10:AJ:103:GLN:HA	10:AJ:106:GLU:CG	2.16	0.76
14:AN:112:GLU:C	14:AN:115:MET:HB2	2.10	0.76
16:AP:42:ASP:C	16:AP:44:LYS:H	1.92	0.76
16:AP:89:ARG:NH2	16:AP:91:PRO:HA	2.00	0.76
17:AQ:4:GLY:O	17:AQ:8:LYS:HG3	1.85	0.76
17:AQ:50:ILE:CD1	17:AQ:76:PHE:HB3	2.15	0.76
20:AT:58:ALA:O	20:AT:63:ASP:N	2.18	0.76
21:AU:49:VAL:HG12	21:AU:88:LYS:CG	2.16	0.76
23:AW:43:GLU:O	23:AW:47:VAL:HG23	1.84	0.76
23:AW:161:VAL:O	23:AW:162:GLU:HB2	1.83	0.76
23:AW:171:ILE:HD12	23:AW:171:ILE:O	1.83	0.76
29:Ac:40:CYS:SG	29:Ac:46:HIS:HA	2.25	0.76
34:BA:49:U:C2	34:BA:364:A:N6	2.48	0.76
34:BA:1128:C:H4'	42:BM:16:ARG:NH2	2.01	0.76
34:BA:1510:U:H2'	34:BA:1511:G:H8	1.46	0.76
35:BF:78:GLN:HE22	35:BF:96:ARG:NH1	1.84	0.76
37:BH:59:ARG:HH22	37:BH:66:ARG:HH12	1.31	0.76
40:BK:76:ARG:NH1	40:BK:89:MET:HG3	1.99	0.76
41:BL:4:ASP:HB2	41:BL:6:ILE:HG22	1.67	0.76
43:BN:12:ASP:OD1	43:BN:14:LYS:N	2.19	0.76
44:BO:20:TYR:CE2	44:BO:83:ILE:HG12	2.19	0.76
45:BP:80:HIS:HB3	55:CA:327:THR:HA	1.66	0.76
48:BS:7:GLU:HB3	48:BS:10:LYS:HE3	1.66	0.76
49:BT:8:ARG:C	49:BT:9:PHE:HD2	1.93	0.76
50:BU:6:LEU:HD13	50:BU:23:VAL:HG21	1.67	0.76
50:BU:59:ILE:HD11	50:BU:71:PHE:CB	2.15	0.76
55:CA:13:HIS:NE2	55:CA:106:MET:CA	2.48	0.76
55:CA:234:ASN:HA	55:CA:235:GLN:CB	2.14	0.76
55:CA:398:GLU:CA	55:CA:472:TYR:CD1	2.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:488:LEU:HD21	55:CA:527:HIS:N	2.00	0.76
1:AA:530:G:O2'	1:AA:531:C:OP1	2.04	0.76
1:AA:690:G:O2'	1:AA:780:G:OP1	2.03	0.76
1:AA:911:A:O4'	1:AA:2264:C:H4'	1.85	0.76
1:AA:980:A:C6	1:AA:1135:C:H4'	2.21	0.76
1:AA:1034:G:N1	1:AA:1122:G:C5	2.54	0.76
1:AA:1080:C:O4'	10:AJ:128:ALA:C	2.29	0.76
1:AA:1524:G:H2'	1:AA:1525:G:C8	2.19	0.76
1:AA:1541:U:H5''	1:AA:1542:G:OP2	1.86	0.76
1:AA:1655:A:H2'	1:AA:1656:C:C6	2.20	0.76
1:AA:1670:C:C2'	1:AA:1671:U:H5'	2.15	0.76
1:AA:1695:G:C2	1:AA:1696:G:O4'	2.38	0.76
1:AA:1728:G:H3'	1:AA:1728:G:OP1	1.86	0.76
1:AA:2199:A:C8	1:AA:2199:A:O5'	2.38	0.76
1:AA:2238:G:O2'	1:AA:2239:G:H5''	1.85	0.76
1:AA:2449:U:C6	1:AA:2449:U:OP1	2.37	0.76
1:AA:2543:G:N3	1:AA:2765:A:C2	2.52	0.76
1:AA:2551:C:H2'	1:AA:2552:U:C6	2.20	0.76
1:AA:2595:G:H1'	1:AA:2599:G:H22	1.49	0.76
1:AA:2764:A:N7	1:AA:2766:G:C6	2.52	0.76
1:AA:2822:G:OP2	15:AO:4:LEU:HD11	1.84	0.76
3:AC:123:VAL:HG11	3:AC:138:PRO:HG2	1.66	0.76
5:AE:59:VAL:O	5:AE:63:LEU:HG	1.85	0.76
6:AF:125:LEU:HD22	6:AF:127:GLU:O	1.85	0.76
7:AG:162:THR:C	7:AG:164:GLU:H	1.92	0.76
8:AH:26:VAL:HG11	8:AH:75:ALA:C	2.10	0.76
9:AI:140:GLY:O	33:Ag:136:UNK:CB	2.33	0.76
13:AM:45:LEU:HD13	31:Ae:59:LYS:HZ1	1.47	0.76
13:AM:128:HIS:ND1	13:AM:129:ALA:N	2.30	0.76
14:AN:102:VAL:HG13	14:AN:102:VAL:O	1.83	0.76
16:AP:49:VAL:CG1	16:AP:80:LEU:HG	2.14	0.76
17:AQ:92:GLY:C	17:AQ:93:ARG:HE	1.92	0.76
20:AT:27:LYS:HB3	20:AT:31:GLU:CD	2.10	0.76
23:AW:71:VAL:HA	23:AW:87:ASP:O	1.86	0.76
25:AY:36:ILE:HG12	25:AY:37:GLY:N	2.01	0.76
30:Ad:8:ASN:HB3	30:Ad:11:LYS:HB3	1.65	0.76
34:BA:179:A:H3'	34:BA:180:U:H5	1.48	0.76
34:BA:243:A:N6	34:BA:283:C:H41	1.83	0.76
34:BA:404:U:H4'	37:BH:122:ARG:HH11	1.49	0.76
34:BA:673:G:H2'	34:BA:674:G:C8	2.21	0.76
34:BA:687:A:O2'	34:BA:688:G:O4'	2.04	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:872:A:H2'	34:BA:873:A:H5''	1.64	0.76
34:BA:973:G:C2	34:BA:974:A:C5	2.74	0.76
34:BA:1126:U:H1'	34:BA:1280:A:C6	2.20	0.76
37:BH:63:LYS:HA	37:BH:66:ARG:HD2	1.67	0.76
39:BJ:14:LEU:HD12	39:BJ:15:ASP:H	1.50	0.76
39:BJ:30:LEU:HA	39:BJ:75:LEU:CD1	2.12	0.76
39:BJ:68:PRO:HB2	39:BJ:71:ARG:CG	2.15	0.76
40:BK:73:MET:HE1	40:BK:149:ARG:NH2	2.00	0.76
41:BL:9:MET:HG3	41:BL:26:VAL:HG11	1.65	0.76
41:BL:82:HIS:NE2	41:BL:84:ARG:HG3	1.99	0.76
49:BT:49:LEU:HD22	49:BT:73:LEU:HD21	1.67	0.76
52:BW:51:VAL:HG21	52:BW:60:VAL:HG21	1.66	0.76
55:CA:82:GLY:N	55:CA:361:ARG:HB3	2.01	0.76
55:CA:176:HIS:CB	55:CA:177:GLU:HB2	2.15	0.76
55:CA:223:ILE:C	55:CA:272:ASP:OD2	2.28	0.76
55:CA:403:VAL:O	55:CA:465:LEU:HD13	1.86	0.76
1:AA:175:G:N2	1:AA:176:G:N3	2.34	0.76
1:AA:270(P):C:H2'	1:AA:270(Q):C:H6	1.49	0.76
1:AA:446:G:N7	18:AR:3:ARG:NH2	2.33	0.76
1:AA:635:C:O2'	1:AA:636:G:H5'	1.84	0.76
1:AA:662:G:H5'	13:AM:17:LYS:H	1.50	0.76
1:AA:900:A:C5	1:AA:901:A:H1'	2.21	0.76
1:AA:948:G:H1'	1:AA:984:A:N3	1.99	0.76
1:AA:1166:C:C2	1:AA:1184:G:N2	2.54	0.76
1:AA:1201:C:N4	1:AA:1241:A:N6	2.33	0.76
1:AA:1203:G:H1	1:AA:1241:A:H1'	1.50	0.76
1:AA:1258:C:H2'	1:AA:1259:G:H8	1.51	0.76
1:AA:1327:C:H3'	1:AA:1328:G:H8	1.49	0.76
1:AA:1451:C:H3'	1:AA:1453:A:H4'	1.68	0.76
1:AA:1532:C:H2'	1:AA:1533:C:C6	2.21	0.76
1:AA:2057:A:H2'	1:AA:2058:A:H8	1.50	0.76
1:AA:2369:A:H2'	1:AA:2370:G:C8	2.21	0.76
1:AA:2640:G:H4'	11:AK:75:TYR:OH	1.85	0.76
4:AD:85:ASP:HB2	4:AD:87:ASN:HD21	1.50	0.76
5:AE:114:ALA:CB	5:AE:118:LYS:HB2	2.14	0.76
6:AF:201:VAL:HA	6:AF:204:ASN:ND2	2.00	0.76
8:AH:45:VAL:HG13	8:AH:50:VAL:HG22	1.67	0.76
8:AH:69:ARG:HB2	8:AH:69:ARG:CZ	2.16	0.76
8:AH:153:LYS:H	8:AH:154:PRO:HD2	1.48	0.76
11:AK:51:PHE:CG	11:AK:119:ARG:HB2	2.21	0.76
12:AL:16:ALA:O	12:AL:18:LYS:N	2.18	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:120:ALA:HB1	13:AM:137:LYS:HB3	1.68	0.76
14:AN:35:VAL:HG23	14:AN:101:ARG:C	2.10	0.76
14:AN:134:ARG:NE	14:AN:137:TYR:HA	1.98	0.76
15:AO:96:ARG:CG	15:AO:98:LEU:HD11	2.16	0.76
17:AQ:53:ARG:HA	17:AQ:53:ARG:HE	1.51	0.76
18:AR:65:ILE:O	18:AR:66:ASN:C	2.28	0.76
18:AR:88:ILE:HG12	19:AS:52:VAL:HG13	1.67	0.76
19:AS:5:VAL:HG11	19:AS:37:VAL:CG1	2.15	0.76
22:AV:13:VAL:HG13	22:AV:70:SER:HB3	1.65	0.76
22:AV:46:LYS:HG3	22:AV:58:GLY:H	1.49	0.76
24:AX:41:ARG:HB3	24:AX:41:ARG:NH1	2.01	0.76
29:Ac:33:LYS:O	29:Ac:34:LEU:C	2.28	0.76
34:BA:440:A:H3'	34:BA:442:C:C6	2.21	0.76
34:BA:1057:G:H4'	36:BG:197:GLY:H	1.49	0.76
34:BA:1166:G:O2'	34:BA:1169:A:N7	2.18	0.76
35:BF:149:LEU:CD2	35:BF:153:ARG:HG2	2.16	0.76
36:BG:88:ARG:HB2	36:BG:101:LEU:HB2	1.67	0.76
37:BH:13:ARG:HG2	37:BH:32:ALA:HB2	1.68	0.76
37:BH:134:ASP:O	37:BH:136:PRO:HD3	1.85	0.76
39:BJ:11:ASN:HD22	39:BJ:86:ARG:NH2	1.83	0.76
49:BT:8:ARG:HD3	49:BT:15:PRO:HA	1.66	0.76
49:BT:18:ARG:HH12	49:BT:35:LYS:HB2	0.74	0.76
50:BU:28:PRO:HA	50:BU:35:VAL:HA	1.65	0.76
55:CA:130:VAL:HG21	55:CA:165:ALA:O	1.85	0.76
55:CA:411:HIS:CD2	55:CA:459:THR:CA	2.65	0.76
1:AA:574:C:C2	1:AA:2055:C:C5	2.74	0.76
1:AA:663:G:C4'	13:AM:18:ARG:HE	1.98	0.76
1:AA:861:A:C5	1:AA:917:A:H2	2.03	0.76
1:AA:861:A:H2'	1:AA:862:G:H5'	1.67	0.76
1:AA:1046:A:C6	9:Al:9:LEU:O	2.38	0.76
1:AA:1105:U:O3'	1:AA:1107:G:P	2.44	0.76
1:AA:1225:C:O4'	19:AS:87:HIS:CE1	2.39	0.76
1:AA:1242:A:C2	13:AM:6:LEU:HD21	2.20	0.76
1:AA:1345:C:O2'	1:AA:1346:G:H5'	1.86	0.76
1:AA:1537:C:H2'	1:AA:1538:G:H5'	1.67	0.76
1:AA:1559:G:C2	1:AA:1560:G:H4'	2.20	0.76
1:AA:1658:C:OP1	5:AE:134:ILE:HD12	1.85	0.76
1:AA:2059:A:N1	1:AA:2503:A:N6	2.34	0.76
1:AA:2631:G:P	1:AA:2894:G:O2'	2.44	0.76
1:AA:2749:A:H4'	8:AH:62:LYS:CG	2.14	0.76
3:AC:10:LEU:CD1	3:AC:13:LYS:HD2	2.16	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:78:LYS:HG2	4:AD:114:GLY:O	1.84	0.76
6:AF:156:LEU:HD12	6:AF:167:ALA:HB2	1.65	0.76
7:AG:17:PRO:O	7:AG:20:ILE:HB	1.85	0.76
7:AG:67:LYS:O	7:AG:67:LYS:HG3	1.84	0.76
7:AG:116:ASP:HB3	7:AG:118:ARG:NH2	2.01	0.76
9:AI:66:LEU:O	9:AI:70:GLU:N	2.19	0.76
10:AJ:23:VAL:CG1	10:AJ:37:PHE:CD2	2.68	0.76
10:AJ:37:PHE:HZ	10:AJ:63:ARG:CD	1.91	0.76
10:AJ:104:VAL:C	10:AJ:127:ILE:HD11	2.11	0.76
10:AJ:112:MET:HE2	10:AJ:122:ALA:N	2.00	0.76
14:AN:55:VAL:CG2	14:AN:64:ILE:HD11	2.14	0.76
14:AN:75:THR:HG21	14:AN:88:GLY:O	1.86	0.76
15:AO:54:LEU:HD22	15:AO:66:VAL:HG23	1.68	0.76
16:AP:7:TYR:HB3	16:AP:11:LYS:NZ	2.01	0.76
16:AP:40:ILE:HG13	16:AP:47:THR:HG23	1.66	0.76
18:AR:47:TYR:OH	19:AS:77:ALA:N	2.17	0.76
18:AR:97:ASP:CA	18:AR:101:ARG:HH21	1.99	0.76
20:AT:5:ALA:HB1	20:AT:50:VAL:HG12	1.68	0.76
25:AY:45:ILE:HG13	25:AY:46:ARG:N	1.99	0.76
31:Ae:22:VAL:O	31:Ae:48:PHE:CG	2.39	0.76
31:Ae:30:ARG:HG2	31:Ae:31:HIS:H	1.51	0.76
34:BA:124:G:H2'	34:BA:125:U:O4'	1.85	0.76
34:BA:392:G:H5'	49:BT:12:LYS:NZ	1.99	0.76
34:BA:894:G:O2'	34:BA:895:G:H5'	1.86	0.76
34:BA:1116:C:N3	34:BA:1184:G:C6	2.53	0.76
34:BA:1196:U:H5'	34:BA:1197:G:C5'	2.15	0.76
34:BA:1318:A:O3'	52:BW:12:ASP:OD1	1.96	0.76
36:BG:22:TRP:CB	36:BG:59:ARG:HB3	2.16	0.76
36:BG:35:GLU:HA	36:BG:38:ARG:CG	2.16	0.76
37:BH:145:GLU:O	37:BH:146:ILE:HG23	1.85	0.76
40:BK:86:GLN:O	40:BK:148:ASN:HB3	1.84	0.76
40:BK:122:HIS:N	40:BK:125:MET:HE3	2.00	0.76
42:BM:49:PRO:HG3	42:BM:78:LYS:O	1.86	0.76
50:BU:10:VAL:HG12	50:BU:54:GLY:H	1.51	0.76
51:BV:37:VAL:HG12	51:BV:41:LYS:NZ	2.00	0.76
51:BV:61:LYS:O	51:BV:65:ILE:HG12	1.85	0.76
53:BX:72:LEU:HD13	53:BX:77:ALA:CB	2.15	0.76
55:CA:2:ILE:HG22	55:CA:268:ALA:HB2	1.67	0.76
55:CA:389:PHE:CG	55:CA:396:LYS:HG2	2.20	0.76
55:CA:537:CYS:HA	55:CA:539:THR:O	1.85	0.76
55:CA:603:ALA:HB3	55:CA:604:PRO:CD	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:210:C:H5''	30:Ad:29:LYS:NZ	2.01	0.76
1:AA:558:G:C2	1:AA:559:G:N7	2.54	0.76
1:AA:580:C:H2'	1:AA:581:C:H6	1.50	0.76
1:AA:661:C:H5''	13:AM:15:ARG:NH2	2.01	0.76
1:AA:800:A:O2'	1:AA:801:G:H5''	1.85	0.76
1:AA:1023:U:H2'	1:AA:1024:G:C5'	2.16	0.76
1:AA:1083:U:H2'	1:AA:1084:A:H5''	1.68	0.76
1:AA:1204:A:OP2	1:AA:1204:A:C4'	2.34	0.76
1:AA:1309:G:H2'	1:AA:1310:G:H5'	1.65	0.76
1:AA:1731:G:N2	1:AA:1733:G:N2	2.34	0.76
1:AA:1944:U:C1'	1:AA:1955:U:H6	1.98	0.76
1:AA:2043:C:N4	1:AA:2777:G:C4	2.54	0.76
1:AA:2253:G:H2'	1:AA:2254:C:H6	1.51	0.76
1:AA:2306:C:OP1	7:AG:136:ARG:HD3	1.86	0.76
1:AA:2508:G:O2'	1:AA:2509:G:H5'	1.86	0.76
1:AA:2666:C:C5	1:AA:2667:C:C6	2.73	0.76
5:AE:58:ARG:HG2	5:AE:63:LEU:CD2	2.16	0.76
10:AJ:27:LEU:HD22	10:AJ:58:THR:C	2.09	0.76
10:AJ:82:ALA:HA	10:AJ:99:ILE:HG23	1.64	0.76
11:AK:39:ARG:N	11:AK:48:MET:HE2	2.01	0.76
12:AL:7:TYR:HA	12:AL:18:LYS:HE3	1.67	0.76
13:AM:75:ILE:HG22	13:AM:115:LEU:CD1	2.14	0.76
14:AN:122:GLY:HA2	14:AN:125:LEU:CG	2.15	0.76
17:AQ:110:ILE:HA	34:BA:1432:G:OP2	1.86	0.76
18:AR:88:ILE:HD13	18:AR:88:ILE:H	1.50	0.76
26:AZ:26:LEU:HB3	26:AZ:35:ARG:HH21	1.50	0.76
31:Ae:36:LYS:HG3	31:Ae:40:GLU:CD	2.10	0.76
34:BA:8:A:N6	37:BH:209:ARG:HH12	1.84	0.76
34:BA:90:C:O2'	34:BA:91:C:H5'	1.85	0.76
34:BA:586:C:OP1	50:BU:34:LYS:NZ	2.18	0.76
34:BA:889:A:H5'	34:BA:891:U:O4'	1.86	0.76
34:BA:1005:A:H5''	34:BA:1006:C:H5	1.48	0.76
34:BA:1288:A:H2'	34:BA:1289:A:C8	2.17	0.76
34:BA:1292:U:H2'	34:BA:1293:G:C8	2.20	0.76
34:BA:1319:A:H5'	52:BW:70:LYS:HE2	0.77	0.76
34:BA:1453:G:H2'	34:BA:1454:G:O4'	1.85	0.76
35:BF:69:LEU:O	35:BF:162:ILE:CA	2.34	0.76
35:BF:178:ARG:HH11	35:BF:178:ARG:HA	1.51	0.76
37:BH:108:LEU:HD21	37:BH:174:LEU:HB3	1.67	0.76
39:BJ:64:GLN:O	39:BJ:65:VAL:HG12	1.85	0.76
41:BL:70:GLN:HE21	41:BL:71:GLY:N	1.84	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:41:ARG:O	47:BR:45:ARG:HG2	1.86	0.76
48:BS:10:LYS:O	48:BS:13:GLN:HB2	1.85	0.76
55:CA:27:GLN:H	55:CA:28:GLN:CA	1.98	0.76
55:CA:82:GLY:HA3	55:CA:361:ARG:CG	2.16	0.76
55:CA:102:PHE:CE1	55:CA:132:ARG:NH2	2.54	0.76
55:CA:102:PHE:CG	55:CA:134:GLY:O	2.38	0.76
55:CA:163:VAL:HG21	55:CA:173:GLY:O	1.82	0.76
55:CA:164:TYR:CZ	55:CA:175:ASP:OD1	2.39	0.76
1:AA:270(Z):U:H2'	1:AA:270(Z):U:O2	1.85	0.76
1:AA:292:C:H3'	1:AA:293:U:C4	2.20	0.76
1:AA:487:C:O2'	20:AT:52:GLU:HB3	1.86	0.76
1:AA:548:A:N6	1:AA:549:G:H21	1.83	0.76
1:AA:878:A:C4	1:AA:879:G:N7	2.54	0.76
1:AA:1061:U:C5'	10:AJ:52:ILE:HD11	2.16	0.76
1:AA:1315:C:H2'	1:AA:1316:U:H6	1.49	0.76
1:AA:1451:C:C4	1:AA:1454:U:OP1	2.39	0.76
1:AA:1530:G:C3'	1:AA:1531:C:C6	2.68	0.76
1:AA:1681:G:C2	1:AA:1762:A:N7	2.53	0.76
1:AA:1773:A:C4	1:AA:1774:C:O2	2.39	0.76
1:AA:1805:U:H2'	1:AA:1806:C:C6	2.21	0.76
1:AA:1819:A:H5''	4:AD:178:PRO:CB	2.15	0.76
1:AA:2046:G:OP1	28:Ab:18:ALA:HB1	1.85	0.76
1:AA:2121:G:H1'	3:AC:167:LYS:HZ3	1.47	0.76
1:AA:2305:A:C2'	7:AG:154:GLY:HA2	2.15	0.76
1:AA:2597:G:O4'	4:AD:242:ARG:NH2	2.19	0.76
1:AA:2652:C:N3	1:AA:2670:A:C1'	2.49	0.76
2:AB:48:A:H2'	2:AB:49:C:H6	1.51	0.76
4:AD:181:GLU:HB2	4:AD:268:ARG:NH2	2.01	0.76
6:AF:30:PRO:HA	6:AF:33:LEU:HD21	1.67	0.76
7:AG:12:TYR:HA	7:AG:15:VAL:CG2	2.14	0.76
7:AG:167:GLU:O	7:AG:170:ARG:HB3	1.85	0.76
11:AK:10:GLU:CD	11:AK:39:ARG:HD2	2.11	0.76
12:AL:7:TYR:HB3	12:AL:18:LYS:CE	2.15	0.76
14:AN:34:LEU:O	14:AN:103:MET:CB	2.29	0.76
15:AO:54:LEU:HD12	15:AO:54:LEU:N	2.01	0.76
16:AP:11:LYS:H	16:AP:11:LYS:CD	1.99	0.76
16:AP:13:ARG:HD3	16:AP:89:ARG:HE	1.51	0.76
17:AQ:18:ASP:CB	17:AQ:81:PRO:HA	2.14	0.76
17:AQ:29:ARG:HA	17:AQ:51:ARG:HA	1.68	0.76
23:AW:55:HIS:HB2	23:AW:101:PRO:HG3	1.67	0.76
26:AZ:10:LYS:HE2	26:AZ:31:LEU:CD2	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:367:U:H4'	34:BA:368:U:OP1	1.85	0.76
34:BA:1202:G:H2'	34:BA:1203:C:H6	1.50	0.76
34:BA:1309:G:N1	34:BA:1328:C:C5	2.53	0.76
34:BA:1521:G:O2'	34:BA:1522:U:H5'	1.84	0.76
35:BF:25:ASN:HB3	35:BF:191:ASP:HA	1.67	0.76
38:BI:79:GLU:HG3	38:BI:93:PRO:CD	2.16	0.76
40:BK:62:PHE:O	40:BK:66:VAL:HG23	1.86	0.76
42:BM:45:ALA:O	42:BM:78:LYS:HB2	1.85	0.76
42:BM:47:LEU:HD13	42:BM:47:LEU:O	1.86	0.76
43:BN:23:ILE:HG22	43:BN:72:VAL:HG11	1.67	0.76
43:BN:49:VAL:CG1	47:BR:45:ARG:HD2	2.16	0.76
44:BO:22:HIS:HB2	44:BO:85:ARG:HB2	1.66	0.76
45:BP:56:ALA:HB2	45:BP:70:ILE:CG1	2.16	0.76
46:BQ:19:LEU:O	46:BQ:25:ILE:CG2	2.34	0.76
49:BT:19:ILE:HG13	49:BT:38:TYR:HA	1.66	0.76
49:BT:35:LYS:HD2	49:BT:36:ILE:N	2.00	0.76
55:CA:176:HIS:HB3	55:CA:177:GLU:CB	2.14	0.76
55:CA:249:ALA:HB1	55:CA:250:LYS:HE3	1.68	0.76
1:AA:311:A:H1'	1:AA:332:A:C5	2.21	0.76
1:AA:946:G:H1	1:AA:972:G:H21	1.33	0.76
1:AA:1496:A:C2	1:AA:1577:C:H1'	2.21	0.76
1:AA:1664:A:H3'	1:AA:1664:A:C8	2.21	0.76
1:AA:1687:G:C6	1:AA:1688:U:C5	2.73	0.76
1:AA:1910:G:C2	1:AA:1911:U:N3	2.54	0.76
1:AA:2538:C:H2'	1:AA:2539:C:C6	2.21	0.76
1:AA:2586:C:H2'	1:AA:2587:A:H8	1.50	0.76
1:AA:2676:C:H2'	1:AA:2677:G:C8	2.21	0.76
4:AD:42:GLY:HA2	4:AD:60:ARG:HH22	1.51	0.76
5:AE:8:LYS:HE3	17:AQ:2:ASN:OD1	1.85	0.76
7:AG:39:ILE:HG23	7:AG:157:ILE:CG1	2.16	0.76
8:AH:103:LEU:HD13	8:AH:115:VAL:CG1	2.15	0.76
12:AL:99:PHE:O	12:AL:118:ALA:HB1	1.85	0.76
13:AM:129:ALA:C	13:AM:130:PHE:HD1	1.94	0.76
14:AN:6:ARG:HH21	14:AN:8:LYS:C	1.93	0.76
14:AN:63:LYS:HZ2	14:AN:64:ILE:HG13	1.48	0.76
14:AN:99:PRO:HG2	14:AN:101:ARG:HE	1.49	0.76
17:AQ:7:ILE:O	17:AQ:8:LYS:C	2.30	0.76
18:AR:77:SER:O	18:AR:81:HIS:HB2	1.85	0.76
23:AW:114:GLY:HA3	23:AW:180:VAL:HG11	1.68	0.76
27:Aa:41:PRO:HB2	27:Aa:57:GLU:CD	2.11	0.76
31:Ae:16:ILE:HG23	31:Ae:22:VAL:CG2	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:56:GLU:CD	31:Ae:56:GLU:N	2.39	0.76
34:BA:10:A:O2'	34:BA:11:G:H5'	1.86	0.76
34:BA:49:U:N3	34:BA:364:A:N7	2.33	0.76
34:BA:236:G:H5'	50:BU:42:TYR:OH	1.86	0.76
34:BA:498:A:H4'	34:BA:500:G:OP1	1.85	0.76
34:BA:520:A:N7	34:BA:521:G:C8	2.54	0.76
34:BA:828:A:O4'	34:BA:859:A:C2	2.39	0.76
34:BA:1287:A:H2'	34:BA:1288:A:C8	2.20	0.76
34:BA:1308:U:O5'	46:BQ:98:VAL:HB	1.85	0.76
34:BA:1314:C:H2'	34:BA:1315:U:C5	2.20	0.76
34:BA:1405:G:O6	34:BA:1497:G:O6	2.04	0.76
35:BF:32:ILE:HD11	35:BF:40:HIS:HD2	1.51	0.76
35:BF:48:MET:HA	35:BF:51:LEU:HD12	1.69	0.76
35:BF:173:ALA:HA	35:BF:176:GLU:HB2	1.66	0.76
36:BG:130:VAL:O	36:BG:133:ALA:HB3	1.86	0.76
39:BJ:35:ALA:O	39:BJ:36:ARG:HG3	1.86	0.76
44:BO:63:LEU:HD23	44:BO:63:LEU:C	2.11	0.76
44:BO:87:THR:HG22	44:BO:91:ARG:HH22	1.51	0.76
49:BT:6:LEU:HB2	49:BT:17:TYR:HB3	1.68	0.76
49:BT:39:TYR:HB2	49:BT:49:LEU:CD1	2.08	0.76
53:BX:57:ARG:NH2	53:BX:100:ILE:HB	2.01	0.76
55:CA:164:TYR:CZ	55:CA:175:ASP:CG	2.62	0.76
55:CA:172:ALA:N	55:CA:179:MET:HE3	2.00	0.76
55:CA:397:GLN:CB	55:CA:472:TYR:O	2.28	0.76
1:AA:2:G:C8	1:AA:2902:C:C2	2.74	0.75
1:AA:49:A:N6	1:AA:176:G:C6	2.55	0.75
1:AA:151:C:H2'	1:AA:152:G:C8	2.20	0.75
1:AA:200:U:C4	1:AA:248:G:N7	2.54	0.75
1:AA:247:G:H4'	1:AA:386:G:N3	2.00	0.75
1:AA:326:G:N2	1:AA:337:C:H1'	2.01	0.75
1:AA:623:G:OP2	13:AM:105:LEU:HD21	1.85	0.75
1:AA:686:G:C8	30:Ad:7:PRO:HA	2.21	0.75
1:AA:848:G:H21	1:AA:933:A:H1'	1.51	0.75
1:AA:899:A:H2	1:AA:900:A:C2	2.02	0.75
1:AA:1007:C:H2'	1:AA:1008:C:C5	2.21	0.75
1:AA:1036:G:H5'	8:AH:59:ARG:NH1	2.00	0.75
1:AA:1530:G:C2'	1:AA:1531:C:C6	2.69	0.75
1:AA:1890:A:H3'	1:AA:1891:G:H8	1.51	0.75
1:AA:1931:U:O2'	1:AA:1932:A:H5'	1.86	0.75
1:AA:1935:G:N1	1:AA:1962:C:H2'	2.00	0.75
1:AA:2011:U:H2'	1:AA:2012:G:C8	2.20	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2017:U:O2	28:Ab:9:LYS:HA	1.85	0.75
1:AA:2305:A:C5	7:AG:42:GLY:HA2	2.22	0.75
1:AA:2685:G:O5'	12:AL:67:LYS:HD2	1.86	0.75
1:AA:2797:U:H4'	1:AA:2798:C:H4'	1.69	0.75
1:AA:2848:G:H8	17:AQ:99:LEU:HD11	1.51	0.75
4:AD:81:ALA:HA	4:AD:113:VAL:HG22	1.68	0.75
5:AE:105:THR:HG23	5:AE:197:ILE:HD13	1.68	0.75
9:AI:26:LEU:HA	9:AI:84:GLU:HA	1.67	0.75
11:AK:7:LYS:NZ	11:AK:10:GLU:H	1.84	0.75
11:AK:109:LYS:CG	11:AK:112:LEU:HB2	2.16	0.75
12:AL:92:GLU:OE2	12:AL:113:LYS:HB3	1.86	0.75
14:AN:41:TRP:HB3	14:AN:74:TYR:OH	1.86	0.75
16:AP:70:GLY:HA2	16:AP:73:LEU:HD22	1.67	0.75
17:AQ:7:ILE:O	17:AQ:11:GLU:OE2	2.03	0.75
19:AS:16:PRO:HD3	19:AS:100:ARG:NH1	2.00	0.75
19:AS:36:PRO:N	19:AS:61:VAL:HG22	2.00	0.75
21:AU:8:ILE:C	21:AU:9:LEU:HG	2.09	0.75
21:AU:92:LEU:H	21:AU:92:LEU:CD1	1.99	0.75
24:AX:51:VAL:HG11	24:AX:79:VAL:HG23	1.69	0.75
27:Aa:57:GLU:HA	27:Aa:61:ARG:CZ	2.17	0.75
34:BA:115:G:O2'	34:BA:116:A:OP2	2.04	0.75
34:BA:198:G:OP2	34:BA:198:G:C8	2.38	0.75
34:BA:665:A:C2'	34:BA:725:G:N2	2.46	0.75
34:BA:1004:A:C8	34:BA:1036:G:O6	2.32	0.75
34:BA:1014:A:C1'	52:BW:34:TRP:HZ3	1.99	0.75
34:BA:1115:C:H1'	34:BA:1186:G:N2	2.01	0.75
34:BA:1431:C:H2'	34:BA:1432:G:O4'	1.85	0.75
35:BF:19:HIS:HA	35:BF:39:ILE:HD11	1.67	0.75
35:BF:222:ILE:CD1	35:BF:226:ARG:HH21	1.99	0.75
36:BG:50:ALA:C	36:BG:72:LYS:HD2	2.10	0.75
36:BG:122:GLU:CA	36:BG:125:GLU:HG2	2.15	0.75
36:BG:150:LYS:HA	36:BG:169:ALA:CB	2.15	0.75
42:BM:112:LYS:HG3	42:BM:117:HIS:HA	1.68	0.75
45:BP:37:CYS:HA	45:BP:58:VAL:CG2	2.10	0.75
49:BT:44:THR:HG23	49:BT:45:THR:N	1.93	0.75
53:BX:54:LYS:O	53:BX:57:ARG:HB2	1.84	0.75
55:CA:2:ILE:CG2	55:CA:267:LEU:HD23	2.13	0.75
55:CA:59:LYS:HB2	55:CA:59:LYS:NZ	2.00	0.75
55:CA:154:THR:O	55:CA:156:GLU:N	2.17	0.75
55:CA:224:GLY:N	55:CA:272:ASP:OD2	2.17	0.75
55:CA:455:PHE:CZ	55:CA:465:LEU:HD23	2.22	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:4:C:C4	1:AA:2900:A:N1	2.42	0.75
1:AA:141(A):C:H2'	1:AA:142:G:O4'	1.87	0.75
1:AA:527:C:H4'	1:AA:527:C:OP1	1.85	0.75
1:AA:587:C:C2	1:AA:671:C:O4'	2.39	0.75
1:AA:624:C:H5'	1:AA:625:G:OP2	1.86	0.75
1:AA:918:A:C8	2:AB:80:U:H4'	2.21	0.75
1:AA:1065:U:H2'	1:AA:1066:U:C5'	2.16	0.75
1:AA:1180:C:H2'	1:AA:1181:C:H6	1.51	0.75
1:AA:1517:G:N2	1:AA:1518:C:C2	2.53	0.75
1:AA:2055:C:H4'	1:AA:2056:G:C5'	2.15	0.75
1:AA:2496:C:H3'	1:AA:2497:A:C2	2.21	0.75
2:AB:75:G:H4'	23:AW:36:LYS:CE	2.15	0.75
3:AC:171:ILE:HD13	3:AC:192:PHE:CZ	2.21	0.75
4:AD:154:LYS:O	4:AD:154:LYS:HG3	1.86	0.75
6:AF:41:LEU:O	6:AF:44:ARG:CZ	2.34	0.75
7:AG:55:LYS:HG3	7:AG:148:MET:HB2	1.68	0.75
8:AH:121:ILE:HA	8:AH:134:SER:O	1.86	0.75
10:AJ:23:VAL:HG11	10:AJ:41:PHE:CZ	2.22	0.75
10:AJ:58:THR:C	10:AJ:59:ILE:HD13	2.10	0.75
10:AJ:72:PRO:CD	10:AJ:77:LEU:HD21	1.88	0.75
10:AJ:100:THR:OG1	10:AJ:103:GLN:HB3	1.83	0.75
12:AL:2:ILE:HD13	12:AL:31:LYS:O	1.86	0.75
12:AL:63:VAL:HG23	12:AL:81:ASP:HA	1.69	0.75
13:AM:13:ASN:ND2	13:AM:14:LYS:N	2.35	0.75
14:AN:42:ILE:HG23	14:AN:47:ILE:HD11	1.69	0.75
14:AN:48:GLU:C	14:AN:51:ARG:HG3	2.09	0.75
15:AO:55:ALA:CB	15:AO:79:LEU:HD21	2.15	0.75
18:AR:13:LYS:HA	18:AR:16:LYS:NZ	2.01	0.75
18:AR:30:LYS:HD2	18:AR:30:LYS:N	2.01	0.75
18:AR:48:ALA:O	18:AR:51:LYS:HB2	1.86	0.75
20:AT:24:ILE:HD13	20:AT:36:LEU:HD13	1.67	0.75
25:AY:52:ILE:CA	25:AY:55:LEU:HD22	2.14	0.75
34:BA:331:G:OP1	34:BA:332:G:H8	1.67	0.75
34:BA:474:G:P	49:BT:81:ARG:HA	2.27	0.75
34:BA:578:C:N4	34:BA:579:G:O6	2.19	0.75
34:BA:898:G:H2'	34:BA:900:A:OP2	1.86	0.75
34:BA:1065:U:H2'	34:BA:1065:U:O2	1.85	0.75
34:BA:1117:G:C4	34:BA:1184:G:N3	2.54	0.75
35:BF:20:GLU:O	35:BF:39:ILE:HG13	1.86	0.75
36:BG:11:ARG:HH22	36:BG:179:ARG:H	1.30	0.75
36:BG:108:ASN:HD22	36:BG:111:LEU:CD1	1.99	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:81:GLU:CD	38:BI:81:GLU:N	2.41	0.75
39:BJ:41:GLU:HB3	39:BJ:62:TRP:HE3	1.50	0.75
39:BJ:76:ALA:CB	39:BJ:80:ARG:HH22	1.99	0.75
47:BR:42:ILE:O	47:BR:43:CYS:C	2.30	0.75
48:BS:53:HIS:C	48:BS:57:LEU:HD13	2.11	0.75
50:BU:11:VAL:HB	50:BU:20:THR:OG1	1.86	0.75
1:AA:60:G:H21	1:AA:74:A:C4'	1.99	0.75
1:AA:243:U:H2'	1:AA:243:U:O2	1.84	0.75
1:AA:270(H):C:H2'	1:AA:270(I):G:H8	1.51	0.75
1:AA:640:C:N4	1:AA:647:G:H1	1.84	0.75
1:AA:643:A:H4'	1:AA:644:A:O5'	1.85	0.75
1:AA:755:C:H2'	1:AA:756:C:C6	2.21	0.75
1:AA:1255:U:C4	6:AF:72:ARG:O	2.39	0.75
1:AA:1327:C:H3'	1:AA:1328:G:C8	2.21	0.75
1:AA:1471:A:C2'	1:AA:1472:A:H5'	2.16	0.75
1:AA:1944:U:H1'	1:AA:1955:U:C6	2.22	0.75
1:AA:2227:A:H2'	1:AA:2228:G:O4'	1.86	0.75
1:AA:2431:U:O2	1:AA:2433:A:OP2	2.04	0.75
1:AA:2541:A:H2	1:AA:2765:A:H61	1.33	0.75
1:AA:2633:G:H4'	1:AA:2812:G:OP1	1.86	0.75
1:AA:2746:U:O4	1:AA:2756:U:C4	2.40	0.75
3:AC:118:ASP:OD1	3:AC:119:VAL:HG13	1.86	0.75
4:AD:34:VAL:HG22	4:AD:104:TYR:OH	1.85	0.75
7:AG:77:ILE:O	7:AG:83:ARG:NE	2.20	0.75
8:AH:26:VAL:HG21	8:AH:75:ALA:HB1	1.66	0.75
8:AH:109:PHE:HE1	55:CA:102:PHE:HZ	1.35	0.75
14:AN:75:THR:HG22	14:AN:77:LYS:N	2.02	0.75
15:AO:14:SER:O	15:AO:18:LEU:HD23	1.86	0.75
15:AO:75:LEU:HA	15:AO:78:LYS:HB3	1.68	0.75
16:AP:75:GLU:HA	16:AP:78:LEU:HB3	1.66	0.75
17:AQ:53:ARG:CB	17:AQ:65:LYS:O	2.29	0.75
26:AZ:30:ARG:HD2	26:AZ:30:ARG:N	2.01	0.75
28:Ab:18:ALA:O	28:Ab:21:SER:OG	2.04	0.75
34:BA:225:C:O2'	34:BA:226:G:H5'	1.85	0.75
34:BA:508:C:O2'	34:BA:509:A:H8	1.69	0.75
34:BA:568:G:H21	34:BA:574:A:H2	1.31	0.75
34:BA:918:A:H2'	34:BA:919:A:C8	2.21	0.75
34:BA:1125:U:C5'	43:BN:38:ILE:HG21	2.16	0.75
34:BA:1129:C:P	42:BM:16:ARG:NH2	2.55	0.75
34:BA:1225:A:C4'	52:BW:78:ARG:CB	2.54	0.75
34:BA:1308:U:H3'	34:BA:1309:G:OP1	1.85	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1443:G:N3	34:BA:1443:G:H2'	2.02	0.75
35:BF:16:HIS:CE1	35:BF:213:LEU:HD13	2.21	0.75
35:BF:53:ARG:HE	35:BF:199:TYR:HE2	1.34	0.75
36:BG:137:ALA:O	36:BG:141:VAL:HG23	1.86	0.75
38:BI:72:GLN:HE22	38:BI:145:LYS:H	1.33	0.75
41:BL:92:ARG:HG2	41:BL:92:ARG:HH11	1.51	0.75
42:BM:16:ARG:HE	42:BM:18:PHE:HZ	1.33	0.75
45:BP:32:PHE:CB	45:BP:84:LEU:HD21	2.16	0.75
45:BP:83:VAL:HG22	45:BP:84:LEU:N	2.02	0.75
55:CA:164:TYR:CE1	55:CA:175:ASP:CB	2.69	0.75
55:CA:322:GLU:CD	55:CA:581:THR:HB	2.10	0.75
1:AA:14:A:N7	1:AA:15:G:N9	2.34	0.75
1:AA:242:G:H2'	1:AA:254:G:O6	1.85	0.75
1:AA:242:G:C8	31:Ae:4:MET:HG3	2.21	0.75
1:AA:388:G:H1'	1:AA:390:A:N6	2.00	0.75
1:AA:574:C:H1'	1:AA:2055:C:C5	2.21	0.75
1:AA:640:C:O2'	1:AA:641:C:H5''	1.86	0.75
1:AA:725:G:C6	1:AA:726:G:N2	2.54	0.75
1:AA:1022:G:N7	11:AK:65:LYS:HE3	2.01	0.75
1:AA:1317:A:H2'	1:AA:1318:C:C6	2.21	0.75
1:AA:1556:C:H2'	1:AA:1557:C:C6	2.21	0.75
1:AA:1683:C:C2	1:AA:1684:C:C5	2.74	0.75
1:AA:1746:G:H2'	1:AA:1747:G:C8	2.22	0.75
1:AA:1967:C:O2	1:AA:1967:C:H2'	1.86	0.75
1:AA:2052:G:H1'	5:AE:150:VAL:N	2.02	0.75
1:AA:2110:G:H2'	1:AA:2120:G:O5'	1.86	0.75
1:AA:2278:A:H62	24:AX:14:ARG:HB3	1.51	0.75
1:AA:2619:C:O2'	1:AA:2620:C:H5'	1.86	0.75
5:AE:60:ASN:CG	5:AE:61:ARG:N	2.44	0.75
7:AG:71:THR:HG22	7:AG:71:THR:O	1.86	0.75
7:AG:75:LYS:HD3	7:AG:85:GLY:H	1.52	0.75
8:AH:89:ILE:HD12	8:AH:90:LYS:H	1.51	0.75
8:AH:106:THR:HG23	8:AH:111:HIS:HB3	1.68	0.75
9:AI:141:VAL:O	33:Ag:134:UNK:HA	1.85	0.75
11:AK:13:TRP:O	11:AK:138:LEU:HB2	1.85	0.75
15:AO:113:LEU:HD13	15:AO:114:VAL:N	2.02	0.75
16:AP:28:VAL:HG22	16:AP:29:PHE:N	2.01	0.75
17:AQ:79:HIS:ND1	17:AQ:79:HIS:N	2.33	0.75
19:AS:6:LYS:HD3	19:AS:10:LYS:CG	2.13	0.75
19:AS:25:LEU:HD23	19:AS:29:PRO:HD3	1.66	0.75
19:AS:35:LEU:N	19:AS:61:VAL:HG13	2.01	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:91:TYR:O	19:AS:92:THR:HB	1.87	0.75
20:AT:82:LEU:O	20:AT:97:LYS:HA	1.85	0.75
31:Ae:8:LYS:HA	31:Ae:11:LYS:HD2	1.67	0.75
34:BA:228:A:C2'	34:BA:229:U:H5'	2.16	0.75
34:BA:526:C:H42	34:BA:535:A:H2	1.35	0.75
34:BA:640:A:H2'	34:BA:641:U:O4'	1.85	0.75
34:BA:949:A:H1'	34:BA:1364:U:H3	1.51	0.75
34:BA:1144:G:N2	34:BA:1146:A:H62	1.84	0.75
34:BA:1416:G:H2'	34:BA:1417:G:C8	2.21	0.75
35:BF:147:LYS:HE2	35:BF:147:LYS:HA	1.65	0.75
35:BF:178:ARG:HA	35:BF:184:VAL:HG21	1.67	0.75
36:BG:40:ARG:O	36:BG:43:LEU:HB3	1.86	0.75
36:BG:157:ILE:HG13	36:BG:164:ARG:CG	2.16	0.75
36:BG:177:THR:HG23	36:BG:180:ALA:HB2	1.68	0.75
37:BH:79:PHE:HB2	37:BH:93:PHE:CE1	2.21	0.75
44:BO:78:GLN:HB2	44:BO:103:LEU:O	1.85	0.75
44:BO:101:SER:O	44:BO:103:LEU:HG	1.86	0.75
53:BX:56:MET:O	53:BX:59:ALA:HB3	1.86	0.75
53:BX:72:LEU:HD23	53:BX:76:ALA:HB1	1.68	0.75
54:BY:7:ARG:HG3	54:BY:8:THR:H	1.51	0.75
55:CA:39:GLN:C	55:CA:40:GLU:HG3	2.11	0.75
1:AA:36:G:H4'	1:AA:451:C:C2	2.21	0.75
1:AA:219:G:H8	1:AA:219:G:O5'	1.68	0.75
1:AA:237:C:H2'	1:AA:238:C:H6	1.51	0.75
1:AA:349:G:C8	1:AA:349:G:OP2	2.40	0.75
1:AA:452:G:C3'	1:AA:453:C:H5''	2.13	0.75
1:AA:500:G:H2'	1:AA:501:A:H5''	1.67	0.75
1:AA:519:U:H5'	1:AA:519:U:C6	2.15	0.75
1:AA:630:G:C5'	31:Ae:46:ARG:HH12	1.97	0.75
1:AA:1050:A:H2'	1:AA:2752:C:OP1	1.86	0.75
1:AA:1746:G:H3'	1:AA:1746:G:OP2	1.85	0.75
1:AA:1789:A:H4'	4:AD:222:ARG:CZ	2.16	0.75
1:AA:1910:G:C8	1:AA:1921:G:C2	2.67	0.75
1:AA:2017:U:H2'	1:AA:2018:G:OP1	1.86	0.75
1:AA:2017:U:O2'	28:Ab:8:LYS:O	2.03	0.75
1:AA:2034:U:C3'	1:AA:2035:G:H5''	2.08	0.75
1:AA:2071:A:C2	1:AA:2441:C:N3	2.54	0.75
1:AA:2128:C:P	3:AC:36:LYS:HB2	2.26	0.75
1:AA:2777:G:H4'	1:AA:2778:A:H5'	1.66	0.75
4:AD:112:GLN:O	4:AD:115:GLN:HB3	1.86	0.75
5:AE:102:VAL:HA	5:AE:202:LYS:NZ	2.01	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:112:GLY:C	5:AE:113:PHE:CD1	2.65	0.75
5:AE:197:ILE:HD13	5:AE:199:ARG:HH21	1.52	0.75
6:AF:37:VAL:HG12	6:AF:41:LEU:HD23	1.68	0.75
7:AG:39:ILE:HD13	7:AG:92:VAL:HG12	1.67	0.75
7:AG:41:GLN:HG3	7:AG:42:GLY:N	2.02	0.75
8:AH:28:GLY:CA	8:AH:79:VAL:HB	2.16	0.75
8:AH:87:LEU:H	8:AH:132:ARG:HB3	1.52	0.75
13:AM:114:ILE:CD1	13:AM:123:LEU:HG	2.16	0.75
13:AM:114:ILE:HG22	13:AM:114:ILE:O	1.84	0.75
15:AO:5:LYS:HE2	15:AO:5:LYS:HA	1.69	0.75
16:AP:62:LYS:HB2	16:AP:65:VAL:HG13	1.69	0.75
17:AQ:82:LEU:O	17:AQ:84:GLN:N	2.19	0.75
18:AR:25:TRP:HE3	18:AR:26:GLY:N	1.83	0.75
23:AW:4:ARG:CG	23:AW:5:LEU:H	1.97	0.75
26:AZ:54:VAL:CG2	26:AZ:55:ARG:N	2.49	0.75
31:Ae:15:LYS:O	31:Ae:22:VAL:HA	1.86	0.75
34:BA:66:G:H4'	34:BA:173:U:C4	2.22	0.75
34:BA:192:U:H1'	53:BX:103:GLY:HA2	1.66	0.75
34:BA:435:C:O2'	34:BA:436:C:H5'	1.86	0.75
34:BA:529:G:H3'	34:BA:529:G:H8	1.48	0.75
34:BA:714:G:H1'	34:BA:777:A:C8	2.22	0.75
34:BA:748:C:C6	34:BA:748:C:H3'	2.22	0.75
34:BA:994:A:N1	34:BA:1047:G:H4'	2.02	0.75
34:BA:1026:G:H2'	34:BA:1027:C:H5'	1.69	0.75
34:BA:1117:G:C5	34:BA:1184:G:C2	2.73	0.75
34:BA:1162:C:H2'	34:BA:1163:C:H6	1.49	0.75
34:BA:1226:C:C5	46:BQ:104:ARG:CG	2.59	0.75
34:BA:1302:U:C2'	34:BA:1303:C:H5'	2.17	0.75
34:BA:1311:G:C2	34:BA:1326:C:C2'	2.68	0.75
34:BA:1347:G:O2'	34:BA:1348:U:OP2	2.04	0.75
34:BA:1405:G:N2	34:BA:1517:G:N2	2.22	0.75
35:BF:178:ARG:HA	35:BF:178:ARG:NH1	2.01	0.75
37:BH:50:ARG:NH1	37:BH:52:SER:HA	2.01	0.75
40:BK:40:ALA:O	40:BK:43:PHE:HB3	1.86	0.75
40:BK:87:VAL:HG22	40:BK:151:TYR:HB3	1.68	0.75
41:BL:29:SER:C	41:BL:32:LYS:HZ2	1.93	0.75
41:BL:45:ILE:HD12	41:BL:48:TYR:HB3	1.67	0.75
41:BL:119:LEU:N	41:BL:119:LEU:HD22	2.01	0.75
41:BL:123:GLU:O	41:BL:126:LYS:HG3	1.86	0.75
45:BP:5:PRO:O	45:BP:6:THR:HG23	1.87	0.75
52:BW:22:LEU:CG	52:BW:25:LYS:HZ1	2.00	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:40:ALA:HA	53:BX:55:ILE:HD12	1.66	0.75
55:CA:29:SER:OG	55:CA:58:ALA:HB1	1.85	0.75
55:CA:54:ILE:HG13	55:CA:211:GLN:HE22	1.50	0.75
55:CA:77:GLY:HA2	55:CA:78:HIS:HB3	1.68	0.75
55:CA:405:LEU:CD1	55:CA:464:LEU:CD2	2.62	0.75
55:CA:412:GLN:O	55:CA:416:MET:HG3	1.86	0.75
1:AA:108:U:H4'	1:AA:348:G:N2	2.02	0.75
1:AA:248:G:OP1	27:Aa:28:LYS:HE2	1.86	0.75
1:AA:397:G:O2'	1:AA:2231:C:H1'	1.86	0.75
1:AA:557:U:O3'	11:AK:112:LEU:HG	1.86	0.75
1:AA:782:A:H5''	1:AA:783:A:OP1	1.87	0.75
1:AA:1128:A:H62	1:AA:2518:A:H61	0.79	0.75
1:AA:1184:G:H2'	1:AA:1185:C:H5'	1.69	0.75
1:AA:1418:G:H1'	1:AA:1579:A:H61	1.49	0.75
1:AA:1429:G:H3'	1:AA:1430:C:H6	1.52	0.75
1:AA:1467:C:N4	1:AA:1524:G:O6	2.20	0.75
1:AA:1631:A:N6	1:AA:1683:C:H5'	2.01	0.75
1:AA:1669:A:H2'	1:AA:1670:C:H5'	1.68	0.75
1:AA:1742:C:H3'	1:AA:1743:G:C5'	2.14	0.75
1:AA:2434:A:C2'	1:AA:2435:A:H5''	2.16	0.75
1:AA:2447:G:C8	1:AA:2500:U:C6	2.74	0.75
1:AA:2864:G:H2'	1:AA:2865:U:C5	2.20	0.75
3:AC:116:THR:CG2	3:AC:149:ILE:HB	2.16	0.75
4:AD:226:MET:HE1	4:AD:237:GLU:O	1.86	0.75
5:AE:102:VAL:HG23	5:AE:200:GLU:OE1	1.87	0.75
9:AI:51:LEU:CA	9:AI:90:ALA:HB2	2.16	0.75
10:AJ:105:LEU:HA	10:AJ:123:ALA:HB2	1.64	0.75
10:AJ:115:LEU:HD13	10:AJ:116:ASN:N	2.01	0.75
12:AL:8:LEU:HD22	12:AL:9:GLU:N	2.00	0.75
12:AL:68:GLU:OE1	12:AL:70:LYS:HE3	1.85	0.75
14:AN:43:THR:HG23	14:AN:46:GLN:HB2	1.68	0.75
14:AN:85:LYS:HG3	14:AN:87:LYS:N	2.02	0.75
17:AQ:34:VAL:HG11	17:AQ:78:LEU:CD1	2.16	0.75
17:AQ:54:ARG:O	17:AQ:64:ARG:HB2	1.86	0.75
19:AS:3:ALA:HB1	19:AS:44:LYS:HZ2	1.50	0.75
19:AS:7:THR:HG23	19:AS:11:GLN:CD	2.11	0.75
22:AV:8:LYS:CA	22:AV:28:LYS:HD2	2.17	0.75
25:AY:48:LEU:HA	25:AY:51:GLN:NE2	2.01	0.75
26:AZ:41:PRO:HA	26:AZ:44:ARG:NH2	2.01	0.75
29:Ac:48:VAL:HG13	29:Ac:49:HIS:N	2.00	0.75
34:BA:759:A:H4'	34:BA:881:G:OP1	1.84	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:865:A:H5'	34:BA:1078:U:O4	1.86	0.75
34:BA:1441:G:C2	34:BA:1460:A:N6	2.54	0.75
35:BF:80:ILE:HD11	35:BF:208:ILE:HG23	1.68	0.75
36:BG:38:ARG:CB	36:BG:94:LEU:HD11	2.15	0.75
38:BI:79:GLU:HG3	38:BI:93:PRO:HD2	1.66	0.75
39:BJ:99:ALA:HB2	51:BV:31:LEU:HD11	1.68	0.75
40:BK:74:GLU:HG2	40:BK:75:VAL:N	2.02	0.75
41:BL:46:LYS:CE	41:BL:64:LYS:HA	2.16	0.75
43:BN:65:LEU:HD12	47:BR:56:VAL:CG2	2.15	0.75
53:BX:27:LYS:HD3	53:BX:27:LYS:C	2.12	0.75
55:CA:205:PHE:CE1	55:CA:226:ILE:CG2	2.70	0.75
55:CA:207:MET:HE1	55:CA:224:GLY:HA3	1.68	0.75
1:AA:59:U:O4'	1:AA:73:A:C2	2.39	0.75
1:AA:109:G:N2	1:AA:110:G:H1'	2.01	0.75
1:AA:270(E):G:O2'	1:AA:270(F):U:H5'	1.86	0.75
1:AA:365:C:O5'	1:AA:365:C:H6	1.68	0.75
1:AA:545:G:C1'	1:AA:549:G:H22	1.97	0.75
1:AA:567:A:C2	1:AA:568:U:H1'	2.21	0.75
1:AA:661:C:H5''	13:AM:15:ARG:HH21	1.51	0.75
1:AA:668:G:N3	1:AA:670:A:N6	2.35	0.75
1:AA:746:A:N7	1:AA:2611:U:O3'	2.20	0.75
1:AA:748:G:H5'	1:AA:749:C:OP2	1.86	0.75
1:AA:805:G:O6	1:AA:2068:U:P	2.45	0.75
1:AA:839:U:H2'	1:AA:840:C:C5	2.21	0.75
1:AA:901:A:N1	1:AA:902:C:C2	2.53	0.75
1:AA:1020:A:C2	1:AA:1140:C:H2'	2.22	0.75
1:AA:1046:A:C5	9:AI:6:ASN:C	2.64	0.75
1:AA:1178:C:C2	1:AA:1179:C:C5	2.73	0.75
1:AA:1222:C:C4	1:AA:1223:C:C5	2.75	0.75
1:AA:1483:G:H1'	1:AA:1507:A:C2	2.20	0.75
1:AA:1854:A:C2	1:AA:1855:G:H1'	2.21	0.75
1:AA:2507:C:H5''	1:AA:2573:C:N4	2.01	0.75
1:AA:2585:U:H2'	1:AA:2585:U:O2	1.87	0.75
1:AA:2888:C:H2'	1:AA:2889:C:C6	2.21	0.75
3:AC:62:VAL:HB	3:AC:195:ALA:HB2	1.67	0.75
3:AC:97:GLU:HA	3:AC:100:ILE:CD1	2.13	0.75
4:AD:59:LYS:HD2	4:AD:59:LYS:C	2.11	0.75
7:AG:94:LEU:HG	7:AG:98:ARG:NH2	2.02	0.75
8:AH:87:LEU:HD23	8:AH:88:LEU:N	2.01	0.75
11:AK:22:THR:HG23	11:AK:25:ARG:NH1	2.01	0.75
17:AQ:85:LYS:HB3	17:AQ:85:LYS:HZ2	1.52	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:95:ARG:NH1	17:AQ:96:ARG:NH1	2.35	0.75
17:AQ:103:ARG:O	17:AQ:105:LEU:N	2.19	0.75
18:AR:44:ASN:C	18:AR:47:TYR:HB2	2.10	0.75
19:AS:28:GLU:CB	19:AS:94:LEU:HD12	2.16	0.75
19:AS:62:LEU:CD1	19:AS:96:ILE:HB	2.02	0.75
24:AX:47:PRO:HG3	24:AX:53:MET:SD	2.26	0.75
26:AZ:17:LYS:HA	26:AZ:20:LYS:NZ	2.02	0.75
29:Ac:17:LYS:NZ	29:Ac:50:ARG:HB2	2.02	0.75
32:Af:15:LYS:O	32:Af:25:VAL:HG13	1.86	0.75
34:BA:539:A:OP2	45:BP:115:LYS:HE3	1.87	0.75
34:BA:778:G:H2'	34:BA:779:C:H6	1.49	0.75
34:BA:1124:G:H21	34:BA:1126:U:H3	0.81	0.75
34:BA:1221:G:C5'	52:BW:52:TYR:O	2.35	0.75
34:BA:1228:C:P	46:BQ:115:LYS:HB3	2.27	0.75
34:BA:1239:A:H1'	34:BA:1241:G:C4	2.21	0.75
34:BA:1270:C:O2'	34:BA:1313:U:H4'	1.84	0.75
34:BA:1318:A:C3'	52:BW:37:ARG:HB3	2.08	0.75
34:BA:1318:A:N9	52:BW:37:ARG:HB2	2.00	0.75
35:BF:95:GLN:HE21	35:BF:148:TYR:CB	1.98	0.75
35:BF:102:LEU:HD12	35:BF:102:LEU:N	2.01	0.75
35:BF:178:ARG:NH2	35:BF:196:LEU:HB2	2.01	0.75
36:BG:83:ARG:O	36:BG:87:LEU:HG	1.87	0.75
37:BH:147:ALA:CB	37:BH:182:LYS:HA	2.16	0.75
38:BI:63:ARG:HA	38:BI:66:MET:HG2	1.68	0.75
38:BI:108:ALA:O	38:BI:112:LEU:HB2	1.87	0.75
40:BK:121:ALA:C	40:BK:125:MET:HE3	2.12	0.75
42:BM:116:LYS:HB3	42:BM:122:ALA:CA	2.16	0.75
43:BN:22:LYS:NZ	43:BN:90:LEU:HD12	2.01	0.75
48:BS:33:THR:HG23	48:BS:87:ILE:CD1	2.17	0.75
50:BU:40:LYS:HB3	50:BU:40:LYS:HZ3	1.51	0.75
55:CA:236:GLN:NE2	55:CA:245:LYS:HZ3	1.85	0.75
55:CA:382:VAL:CG2	55:CA:578:VAL:CG1	2.65	0.75
55:CA:399:PRO:HG2	55:CA:468:THR:O	1.85	0.75
1:AA:594:U:H5''	31:Ae:61:LEU:CD1	2.16	0.75
1:AA:600:G:N2	1:AA:604:G:H4'	2.01	0.75
1:AA:817:C:H2'	1:AA:818:G:O4'	1.87	0.75
1:AA:1012:U:O4	11:AK:25:ARG:CB	2.33	0.75
1:AA:1179:C:HO2'	1:AA:1180:C:H6	0.78	0.75
1:AA:1382:G:H2'	1:AA:1383:C:H6	1.51	0.75
1:AA:1518:C:H3'	1:AA:1519:G:C5'	2.17	0.75
1:AA:1534:G:N2	1:AA:1537:C:H5	1.85	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1609:A:H62	1:AA:1616:A:H2	1.34	0.75
1:AA:1808:U:N3	1:AA:1810:A:C2	2.54	0.75
1:AA:1815:A:OP1	1:AA:1822:G:H4'	1.86	0.75
1:AA:2295:C:H1'	1:AA:2338:G:N2	2.01	0.75
1:AA:2311:A:H3'	1:AA:2312:U:C6	2.22	0.75
1:AA:2447:G:H8	1:AA:2500:U:C3'	1.73	0.75
2:AB:9:G:N3	2:AB:9:G:H2'	2.01	0.75
4:AD:58:HIS:O	4:AD:59:LYS:CG	2.34	0.75
5:AE:32:PRO:CB	5:AE:35:GLN:HE22	1.98	0.75
5:AE:124:GLY:HA3	5:AE:136:ARG:HB2	1.67	0.75
7:AG:102:PHE:CE1	7:AG:106:LEU:HD12	2.22	0.75
7:AG:111:LEU:HB3	7:AG:112:PRO:HD3	1.68	0.75
10:AJ:72:PRO:HD3	10:AJ:77:LEU:HD21	1.67	0.75
11:AK:4:TYR:CD2	18:AR:100:VAL:HG11	2.22	0.75
15:AO:74:LYS:HB2	15:AO:74:LYS:NZ	2.01	0.75
16:AP:78:LEU:HD13	16:AP:79:ALA:H	1.52	0.75
17:AQ:54:ARG:HG2	17:AQ:100:TYR:CB	2.14	0.75
18:AR:108:GLU:O	18:AR:111:GLU:HG2	1.86	0.75
19:AS:12:TYR:CG	19:AS:13:ARG:N	2.54	0.75
20:AT:88:ARG:HB2	20:AT:94:ASP:CG	2.11	0.75
21:AU:36:LYS:HD3	21:AU:39:ILE:HD12	1.69	0.75
22:AV:1:MET:CA	22:AV:33:LYS:HE3	2.17	0.75
29:Ac:24:GLU:HG2	31:Ae:37:SER:CB	2.15	0.75
30:Ad:19:ARG:HB3	30:Ad:23:ARG:CZ	2.15	0.75
34:BA:440:A:N6	34:BA:494:U:C5	2.55	0.75
34:BA:1064:G:OP1	34:BA:1386:G:H4'	1.86	0.75
34:BA:1247:U:H2'	34:BA:1248:A:C8	2.21	0.75
34:BA:1312:G:C2	34:BA:1326:C:N1	2.55	0.75
34:BA:1315:U:C2'	34:BA:1360:A:C2'	2.51	0.75
35:BF:10:LEU:HD23	35:BF:11:LEU:HD23	1.68	0.75
37:BH:107:ARG:HA	37:BH:107:ARG:NH1	2.00	0.75
44:BO:67:ASP:O	44:BO:71:LYS:HG2	1.86	0.75
44:BO:87:THR:HG22	44:BO:91:ARG:HH12	1.50	0.75
45:BP:85:ILE:CD1	45:BP:99:HIS:N	2.50	0.75
45:BP:106:ASP:N	55:CA:329:ARG:CD	2.48	0.75
46:BQ:65:LYS:HG3	46:BQ:69:GLU:CG	2.16	0.75
48:BS:16:ALA:HB1	48:BS:21:ASP:CB	2.17	0.75
50:BU:21:VAL:HG23	50:BU:42:TYR:O	1.85	0.75
50:BU:43:LEU:HD22	50:BU:44:ALA:H	1.48	0.75
52:BW:6:LYS:HD2	52:BW:7:LYS:N	2.02	0.75
53:BX:51:GLU:HA	53:BX:54:LYS:CE	2.17	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:90:GLN:HA	53:BX:93:GLU:OE1	1.86	0.75
55:CA:426:LEU:CB	55:CA:441:TYR:CZ	2.66	0.75
55:CA:512:LEU:CD1	55:CA:524:ILE:HG22	2.17	0.75
1:AA:2:G:H2'	1:AA:3:U:C6	2.22	0.75
1:AA:28:A:C1'	1:AA:513:A:N1	2.48	0.75
1:AA:324:A:N6	1:AA:339:U:H1'	2.00	0.75
1:AA:2016:U:O4'	28:Ab:6:VAL:HG11	1.87	0.75
4:AD:87:ASN:HD22	4:AD:87:ASN:H	1.31	0.75
4:AD:159:ALA:O	4:AD:196:VAL:HG11	1.87	0.75
4:AD:182:LEU:CD1	4:AD:270:ILE:HD11	2.17	0.75
6:AF:56:GLU:O	6:AF:57:VAL:C	2.28	0.75
6:AF:110:LEU:CD1	6:AF:181:LEU:HD23	2.16	0.75
7:AG:118:ARG:HB3	7:AG:118:ARG:NH1	2.01	0.75
8:AH:11:VAL:O	8:AH:11:VAL:CG1	2.34	0.75
9:AI:141:VAL:CA	33:Ag:134:UNK:CA	2.45	0.75
11:AK:16:ILE:HD12	11:AK:16:ILE:N	2.02	0.75
12:AL:70:LYS:HE2	12:AL:104:ARG:HG3	1.68	0.75
13:AM:77:ARG:NH2	13:AM:79:ARG:HG2	2.02	0.75
15:AO:26:LYS:HG2	15:AO:70:LEU:HD13	1.69	0.75
20:AT:33:ARG:HH21	20:AT:36:LEU:HB3	1.52	0.75
22:AV:2:ARG:HH21	22:AV:4:LYS:CB	1.99	0.75
26:AZ:20:LYS:O	26:AZ:23:LEU:HB2	1.87	0.75
27:Aa:5:ILE:HG23	27:Aa:57:GLU:CB	2.15	0.75
30:Ad:42:LEU:HB3	30:Ad:44:PRO:CG	2.17	0.75
34:BA:38:G:N3	34:BA:397:A:N6	2.35	0.75
34:BA:93:U:H2'	34:BA:95:G:C8	2.22	0.75
34:BA:137:C:H2'	34:BA:138:G:O5'	1.86	0.75
34:BA:371:G:C2'	34:BA:372:C:C5'	2.63	0.75
34:BA:738:C:H2'	34:BA:739:C:H6	1.52	0.75
34:BA:745:C:OP1	34:BA:851:G:O2'	2.04	0.75
34:BA:754:C:H2'	34:BA:755:G:OP1	1.87	0.75
34:BA:958:A:C4	52:BW:56:GLN:NE2	2.55	0.75
34:BA:1049:U:H1'	34:BA:1201:A:O4'	1.87	0.75
34:BA:1063:C:C4	34:BA:1064:G:N7	2.55	0.75
34:BA:1148:U:O2	34:BA:1149:C:C6	2.40	0.75
34:BA:1206:G:H4'	36:BG:192:THR:O	1.87	0.75
34:BA:1363:A:N3	34:BA:1365:G:C6	2.55	0.75
34:BA:1399:C:C4	34:BA:1502:A:N6	2.55	0.75
36:BG:140:ARG:HB3	36:BG:140:ARG:NH1	2.02	0.75
37:BH:118:ARG:NH2	37:BH:136:PRO:HB2	2.02	0.75
40:BK:113:GLU:OE2	40:BK:119:ARG:HG3	1.86	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:112:LEU:HA	41:BL:134:ILE:HG13	1.69	0.75
45:BP:25:PRO:C	45:BP:27:LEU:N	2.42	0.75
46:BQ:16:ASP:O	46:BQ:30:ALA:HB2	1.86	0.75
46:BQ:97:PRO:CB	46:BQ:101:GLN:HG3	2.17	0.75
47:BR:27:CYS:O	47:BR:29:ARG:HG3	1.86	0.75
48:BS:31:LEU:O	48:BS:34:LEU:HG	1.86	0.75
48:BS:36:ILE:HG13	48:BS:59:MET:HE1	1.69	0.75
55:CA:4:LYS:O	55:CA:68:TYR:CA	2.34	0.75
55:CA:220:VAL:CB	55:CA:274:VAL:CG2	2.65	0.75
55:CA:424:GLY:C	55:CA:441:TYR:HD2	1.94	0.75
1:AA:80:G:C1'	1:AA:347:A:N6	2.50	0.74
1:AA:399:G:C6	1:AA:400:G:H1'	2.21	0.74
1:AA:514:A:H2	1:AA:515:A:C4	2.05	0.74
1:AA:600:G:O2'	6:AF:105:VAL:HG22	1.87	0.74
1:AA:750:A:O2'	1:AA:751:A:H5''	1.87	0.74
1:AA:881:G:N7	1:AA:896:A:C6	2.45	0.74
1:AA:915:C:H2'	1:AA:916:G:O4'	1.87	0.74
1:AA:962:G:H2'	1:AA:963:U:H6	1.51	0.74
1:AA:983:A:H2'	1:AA:984:A:C8	2.22	0.74
1:AA:1059:G:H21	10:AJ:130:SER:HA	0.94	0.74
1:AA:1080:C:C5'	10:AJ:128:ALA:CA	2.65	0.74
1:AA:1321:A:C2	1:AA:1322:A:O4'	2.40	0.74
1:AA:1453:A:H61	15:AO:63:ARG:NH2	1.80	0.74
1:AA:1471:A:H2'	1:AA:1472:A:H5'	1.69	0.74
1:AA:1602:U:H2'	1:AA:1603:A:O5'	1.85	0.74
1:AA:1742:C:N4	1:AA:1743:G:C8	2.55	0.74
1:AA:2396:G:H4'	27:Aa:27:THR:HA	1.69	0.74
1:AA:2447:G:O6	1:AA:2452:C:N4	2.20	0.74
1:AA:2886:G:O2'	28:Ab:32:PRO:HD2	1.87	0.74
2:AB:87:G:OP2	2:AB:87:G:H8	1.69	0.74
3:AC:114:VAL:HA	3:AC:144:THR:O	1.87	0.74
4:AD:133:LEU:HB2	4:AD:187:GLY:HA2	1.69	0.74
4:AD:183:ARG:HG2	4:AD:268:ARG:CG	2.16	0.74
5:AE:60:ASN:CG	5:AE:61:ARG:H	1.95	0.74
6:AF:115:ALA:O	6:AF:119:ARG:HG3	1.87	0.74
6:AF:184:TYR:HD1	6:AF:184:TYR:H	1.33	0.74
6:AF:188:ARG:HG2	6:AF:188:ARG:HH11	1.52	0.74
7:AG:125:PHE:O	7:AG:126:ASP:HB3	1.87	0.74
11:AK:26:LEU:O	11:AK:30:ILE:HG13	1.86	0.74
11:AK:42:TRP:CZ3	18:AR:67:ALA:HB1	2.23	0.74
12:AL:90:GLN:O	12:AL:91:LEU:C	2.29	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:72:PRO:HB3	13:AM:110:TYR:C	2.12	0.74
14:AN:25:ASP:CB	14:AN:102:VAL:HG12	2.16	0.74
14:AN:36:ALA:C	14:AN:100:GLY:HA2	2.11	0.74
16:AP:95:HIS:CA	16:AP:99:LYS:HB2	2.17	0.74
18:AR:89:GLU:CB	19:AS:52:VAL:N	2.44	0.74
19:AS:17:GLY:HA3	19:AS:19:LYS:HZ3	1.50	0.74
19:AS:23:GLU:HB2	19:AS:92:THR:O	1.87	0.74
19:AS:67:GLY:CA	19:AS:93:GLU:O	2.35	0.74
30:Ad:43:THR:HG23	30:Ad:46:VAL:CG2	2.17	0.74
34:BA:283:C:H2'	34:BA:283:C:O2	1.85	0.74
34:BA:598:U:O2'	41:BL:94:TYR:HB3	1.87	0.74
34:BA:652:U:H4'	34:BA:653:A:OP1	1.87	0.74
34:BA:749:C:H2'	34:BA:749:C:O2	1.86	0.74
34:BA:1056:U:O2	36:BG:195:VAL:HG23	1.87	0.74
34:BA:1115:C:O4'	34:BA:1186:G:N2	2.19	0.74
34:BA:1316:G:H5'	34:BA:1360:A:N9	2.01	0.74
35:BF:17:PHE:CD1	35:BF:18:GLY:N	2.54	0.74
36:BG:83:ARG:O	36:BG:85:ARG:N	2.19	0.74
36:BG:125:GLU:OE1	36:BG:190:ARG:HB2	1.87	0.74
38:BI:59:GLY:C	38:BI:63:ARG:HH21	1.95	0.74
39:BJ:6:VAL:HG12	39:BJ:63:TYR:O	1.87	0.74
39:BJ:14:LEU:HD13	39:BJ:15:ASP:H	1.52	0.74
40:BK:72:ARG:CZ	40:BK:142:GLU:OE1	2.35	0.74
42:BM:58:HIS:CD2	42:BM:59:PHE:CD1	2.75	0.74
43:BN:51:ARG:HB2	43:BN:59:SER:O	1.87	0.74
49:BT:67:THR:HB	49:BT:70:ALA:HB2	1.68	0.74
50:BU:57:VAL:HB	50:BU:75:ARG:O	1.87	0.74
52:BW:4:SER:CA	52:BW:5:LEU:HB3	2.17	0.74
53:BX:23:ARG:O	53:BX:26:ASN:ND2	2.20	0.74
53:BX:100:ILE:O	53:BX:102:GLY:N	2.20	0.74
55:CA:13:HIS:CE1	55:CA:15:ASP:O	2.40	0.74
55:CA:158:LEU:CA	55:CA:159:ASP:CB	2.64	0.74
55:CA:398:GLU:HA	55:CA:472:TYR:HD1	1.46	0.74
1:AA:81:G:H4'	1:AA:294:A:C2	2.23	0.74
1:AA:349:G:H2'	1:AA:350:U:H6	1.48	0.74
1:AA:728:G:O2'	1:AA:729:G:H5''	1.87	0.74
1:AA:740:U:C2'	1:AA:741:G:O5'	2.34	0.74
1:AA:814:C:H4'	1:AA:1224:G:N2	2.02	0.74
1:AA:1057:A:C8	1:AA:1084:A:N6	2.55	0.74
1:AA:1072:C:C3'	1:AA:1093:G:C6	2.69	0.74
1:AA:1078:U:H5''	10:AJ:137:GLU:OE2	1.86	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1349:A:C2	1:AA:1598:C:N3	2.54	0.74
1:AA:1999:C:H2'	1:AA:2000:G:O5'	1.87	0.74
1:AA:2054:A:H62	1:AA:2577:A:H61	1.36	0.74
1:AA:2231:C:H2'	1:AA:2232:U:H6	1.52	0.74
1:AA:2623:G:H22	28:Ab:22:HIS:HE1	1.33	0.74
5:AE:51:PHE:CD1	5:AE:76:ARG:HG2	2.22	0.74
5:AE:119:ARG:HG3	5:AE:156:MET:O	1.87	0.74
6:AF:158:THR:CG2	6:AF:195:ASP:HB2	2.16	0.74
7:AG:96:ARG:HD3	7:AG:97:ASP:OD1	1.87	0.74
7:AG:124:SER:O	7:AG:132:ASN:HB3	1.87	0.74
8:AH:85:LYS:HD2	8:AH:145:ALA:CB	2.16	0.74
11:AK:4:TYR:HD2	18:AR:100:VAL:HG11	1.50	0.74
11:AK:34:LEU:HD21	11:AK:52:VAL:HG12	1.68	0.74
12:AL:16:ALA:CB	12:AL:45:GLU:HB2	2.17	0.74
12:AL:63:VAL:CG2	12:AL:81:ASP:HA	2.17	0.74
13:AM:74:GLU:CA	13:AM:107:LYS:HD3	2.18	0.74
14:AN:26:TYR:H	14:AN:102:VAL:HB	1.52	0.74
15:AO:45:ARG:HG2	15:AO:46:GLY:N	2.02	0.74
16:AP:9:ARG:HA	16:AP:12:PHE:CE2	2.22	0.74
16:AP:106:ARG:CZ	16:AP:110:LEU:HD22	2.16	0.74
19:AS:78:LYS:HB2	19:AS:84:LYS:HB3	1.68	0.74
21:AU:63:LYS:NZ	21:AU:63:LYS:HA	2.03	0.74
24:AX:51:VAL:HG21	24:AX:79:VAL:O	1.86	0.74
25:AY:20:VAL:CA	25:AY:55:LEU:HD23	2.17	0.74
25:AY:20:VAL:CB	25:AY:55:LEU:HD23	2.18	0.74
31:Ae:13:ARG:O	31:Ae:14:VAL:HB	1.86	0.74
31:Ae:16:ILE:HG23	31:Ae:22:VAL:HG23	1.69	0.74
34:BA:9:G:OP2	38:BI:121:LYS:HD2	1.86	0.74
34:BA:284:G:O2'	34:BA:285:G:H5'	1.86	0.74
34:BA:517:G:O2'	34:BA:530:G:H4'	1.87	0.74
34:BA:1048:G:O4'	34:BA:1215:G:H4'	1.87	0.74
34:BA:1104:G:O2'	34:BA:1105:A:H5'	1.86	0.74
34:BA:1202:G:C1'	47:BR:29:ARG:HE	1.99	0.74
34:BA:1208:C:H2'	34:BA:1209:C:H6	1.51	0.74
34:BA:1363:A:H5''	34:BA:1364:U:OP1	1.86	0.74
35:BF:56:ARG:HH11	35:BF:56:ARG:CB	2.00	0.74
35:BF:119:GLU:HA	35:BF:142:LEU:HD13	1.67	0.74
38:BI:17:ALA:HA	38:BI:26:PHE:HB3	1.67	0.74
39:BJ:47:ARG:CD	39:BJ:57:GLN:HB3	2.17	0.74
41:BL:7:ALA:HA	41:BL:10:LEU:CD1	2.17	0.74
41:BL:95:VAL:HB	41:BL:99:GLU:OE1	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:85:LEU:HD23	42:BM:96:LEU:CD1	2.15	0.74
1:AA:243:U:O2	1:AA:244:A:H5'	1.87	0.74
1:AA:618:G:H2'	1:AA:618(A):C:C6	2.23	0.74
1:AA:997:G:H8	1:AA:997:G:OP2	1.69	0.74
1:AA:1156:A:OP1	18:AR:55:ARG:NE	2.20	0.74
1:AA:1270:C:H4'	1:AA:1271:G:H5''	1.68	0.74
1:AA:1275:A:N7	1:AA:1296:G:H1'	2.03	0.74
1:AA:1503:U:H2'	1:AA:1504:C:C5	2.21	0.74
1:AA:1820:U:N1	4:AD:202:LYS:HG2	2.03	0.74
1:AA:2246:G:N2	1:AA:2247:A:C4	2.55	0.74
1:AA:2285:C:O4'	1:AA:2288:A:N6	2.20	0.74
1:AA:2602:A:O2'	24:AX:1:MET:O	2.03	0.74
1:AA:2840:C:H5''	15:AO:53:HIS:HD2	1.51	0.74
4:AD:138:VAL:HA	4:AD:165:ILE:CG2	2.18	0.74
5:AE:202:LYS:C	5:AE:204:ALA:H	1.94	0.74
11:AK:55:VAL:HB	11:AK:130:HIS:CE1	2.21	0.74
14:AN:109:VAL:HG22	14:AN:113:GLN:HB2	1.68	0.74
15:AO:55:ALA:HA	15:AO:79:LEU:HD21	1.69	0.74
18:AR:65:ILE:HD13	18:AR:65:ILE:N	2.02	0.74
20:AT:24:ILE:HG22	20:AT:32:ALA:HB1	1.68	0.74
20:AT:25:ARG:HA	20:AT:71:VAL:HG11	1.67	0.74
20:AT:69:LEU:HD23	20:AT:107:LEU:CD2	2.15	0.74
20:AT:70:TYR:CZ	20:AT:72:LYS:HB2	2.22	0.74
22:AV:98:VAL:O	22:AV:99:CYS:SG	2.45	0.74
25:AY:56:LEU:N	25:AY:56:LEU:HD13	2.01	0.74
25:AY:58:VAL:HG22	25:AY:59:LEU:N	2.00	0.74
27:Aa:43:TYR:HA	27:Aa:61:ARG:CZ	2.16	0.74
33:Ag:309:UNK:N	55:CA:142:ASP:CG	2.45	0.74
34:BA:92:G:H2'	34:BA:93:U:O4'	1.88	0.74
34:BA:675:A:H2'	34:BA:676:A:C8	2.23	0.74
34:BA:973:G:C2	34:BA:974:A:C6	2.75	0.74
34:BA:1148:U:O2	34:BA:1148:U:H2'	1.87	0.74
34:BA:1239:A:H1'	34:BA:1241:G:C8	2.22	0.74
34:BA:1269:A:O2'	34:BA:1313:U:O2	1.61	0.74
34:BA:1277:C:C4'	34:BA:1282:C:H1'	2.17	0.74
34:BA:1293:G:H2'	34:BA:1294:G:C8	2.22	0.74
35:BF:222:ILE:HD13	35:BF:226:ARG:HH21	1.51	0.74
37:BH:18:LYS:CG	37:BH:33:MET:HB3	2.16	0.74
38:BI:80:ILE:O	38:BI:90:VAL:HA	1.88	0.74
46:BQ:4:ILE:HD12	46:BQ:57:ARG:HG2	1.64	0.74
46:BQ:66:LEU:CA	46:BQ:70:LEU:HB2	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:22:LEU:O	52:BW:22:LEU:HD23	1.87	0.74
55:CA:8:ILE:HD11	55:CA:96:LEU:HD12	1.69	0.74
55:CA:206:GLN:HG2	55:CA:227:LYS:HB2	0.75	0.74
55:CA:253:LYS:HB2	55:CA:262:ARG:HG3	1.69	0.74
1:AA:5:A:C2	1:AA:2899:G:C5	2.74	0.74
1:AA:6:A:C2	1:AA:2897:U:N1	2.55	0.74
1:AA:247:G:H4'	1:AA:386:G:C2	2.21	0.74
1:AA:270(G):C:H2'	1:AA:270(H):C:C6	2.23	0.74
1:AA:456:C:C5	21:AU:68:ARG:NH1	2.55	0.74
1:AA:630:G:H2'	1:AA:632:A:OP2	1.88	0.74
1:AA:632:A:H2'	1:AA:633:A:C8	2.22	0.74
1:AA:989:G:O2'	1:AA:990:A:O5'	2.05	0.74
1:AA:1067:A:H4'	10:AJ:21:PRO:HB3	1.68	0.74
1:AA:1116:C:H2'	1:AA:1117:G:H8	1.50	0.74
1:AA:1203:G:O6	1:AA:1240:U:H2'	1.86	0.74
1:AA:1258:C:C5'	6:AF:84:VAL:HG21	2.14	0.74
1:AA:1403:C:O3'	1:AA:1471:A:H4'	1.86	0.74
1:AA:1435:G:N1	1:AA:1558:A:N6	2.36	0.74
1:AA:1511:A:H2'	1:AA:1512:G:H5''	1.68	0.74
1:AA:1520:U:H6	1:AA:1520:U:H3'	1.52	0.74
1:AA:1707:G:H2'	1:AA:1708:C:C6	2.22	0.74
1:AA:1791:A:H3'	1:AA:1792:G:C8	2.20	0.74
1:AA:1886:C:H2'	1:AA:1887:C:H6	1.50	0.74
1:AA:2394:C:P	13:AM:57:THR:HA	2.27	0.74
1:AA:2716:U:O2'	1:AA:2717:G:H5'	1.87	0.74
3:AC:213:TYR:CB	3:AC:223:ARG:HA	2.16	0.74
4:AD:79:VAL:HG21	4:AD:112:GLN:O	1.87	0.74
4:AD:136:ILE:HD12	4:AD:173:VAL:HG21	1.67	0.74
6:AF:153:SER:OG	6:AF:190:GLU:HG2	1.87	0.74
10:AJ:12:LEU:CG	10:AJ:57:ILE:HG23	2.16	0.74
11:AK:22:THR:HG23	11:AK:25:ARG:CZ	2.18	0.74
11:AK:58:ASP:O	11:AK:60:ILE:HG13	1.86	0.74
11:AK:66:LYS:HA	11:AK:87:LEU:CD1	2.14	0.74
12:AL:12:ASP:CB	12:AL:93:PRO:HG2	2.17	0.74
13:AM:89:ALA:C	13:AM:125:VAL:HG22	2.11	0.74
17:AQ:61:PHE:HD1	17:AQ:81:PRO:HD3	1.50	0.74
17:AQ:67:SER:OG	17:AQ:75:ILE:HG23	1.87	0.74
18:AR:15:LYS:O	18:AR:18:LEU:HB2	1.85	0.74
18:AR:63:VAL:O	18:AR:64:ARG:C	2.30	0.74
18:AR:89:GLU:HG2	19:AS:52:VAL:CG2	2.06	0.74
18:AR:94:ASN:HD22	19:AS:6:LYS:CE	2.00	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:3:ALA:HB2	19:AS:44:LYS:HD2	1.68	0.74
22:AV:12:THR:HA	22:AV:73:ARG:CD	2.16	0.74
23:AW:4:ARG:HH22	23:AW:88:PHE:HE1	1.33	0.74
23:AW:17:ALA:HA	23:AW:20:ARG:NH2	2.01	0.74
23:AW:96:VAL:HG13	23:AW:128:VAL:HG22	1.68	0.74
23:AW:122:ARG:CG	23:AW:171:ILE:HA	2.17	0.74
23:AW:127:LYS:HA	23:AW:164:ALA:H	1.50	0.74
27:Aa:42:PHE:O	27:Aa:61:ARG:NH1	2.21	0.74
34:BA:582:U:H5''	48:BS:68:ARG:HH12	1.52	0.74
34:BA:761:G:C4'	50:BU:103:GLY:H	2.00	0.74
34:BA:932:C:OP1	40:BK:3:ARG:HB3	1.87	0.74
34:BA:1075:C:H4'	34:BA:1101:A:H62	1.50	0.74
34:BA:1180:A:OP1	42:BM:102:LEU:HB2	1.86	0.74
37:BH:170:VAL:HG23	37:BH:176:LEU:HB3	1.68	0.74
38:BI:11:ILE:CG2	38:BI:12:LEU:H	2.01	0.74
40:BK:75:VAL:HG22	40:BK:88:PRO:CA	2.17	0.74
41:BL:126:LYS:HD2	41:BL:126:LYS:C	2.13	0.74
41:BL:126:LYS:HD2	41:BL:127:LEU:N	2.02	0.74
43:BN:3:LYS:HE3	43:BN:77:PRO:HD3	1.69	0.74
43:BN:82:ILE:O	43:BN:86:MET:HB3	1.87	0.74
44:BO:95:ILE:HG23	44:BO:98:LEU:HD12	1.70	0.74
45:BP:68:ALA:HB1	45:BP:98:TYR:C	2.13	0.74
46:BQ:48:LEU:HD22	46:BQ:53:VAL:HG23	1.70	0.74
49:BT:27:LYS:HZ2	49:BT:27:LYS:H	1.33	0.74
50:BU:33:GLY:O	50:BU:34:LYS:O	2.05	0.74
1:AA:84:A:C5'	22:AV:8:LYS:HG3	2.16	0.74
1:AA:221:A:N7	1:AA:266:G:O6	2.20	0.74
1:AA:257:A:H2'	1:AA:258:G:O4'	1.87	0.74
1:AA:300:A:H2'	1:AA:334:C:O2'	1.86	0.74
1:AA:459:U:OP2	30:Ad:40:TRP:HA	1.87	0.74
1:AA:534:U:O2'	18:AR:49:HIS:NE2	2.21	0.74
1:AA:820:A:H2'	1:AA:821:A:C5'	2.11	0.74
1:AA:962:G:C2'	1:AA:963:U:C6	2.69	0.74
1:AA:1080:C:C1'	10:AJ:129:GLY:N	2.51	0.74
1:AA:1299:G:H5'	1:AA:1301:A:H1'	1.69	0.74
1:AA:1315:C:O2'	1:AA:1392:A:H1'	1.87	0.74
1:AA:1430:C:H2'	1:AA:1431:U:H6	1.50	0.74
1:AA:1667:G:C2	1:AA:1991:U:C4	2.75	0.74
1:AA:1912:A:C1'	34:BA:1495:U:O4'	2.35	0.74
1:AA:2021:C:C2'	1:AA:2022:U:OP1	2.34	0.74
1:AA:2576:G:OP1	1:AA:2577:A:OP1	2.04	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2594:C:O2'	1:AA:2595:G:H5'	1.87	0.74
1:AA:2733:A:H2'	1:AA:2734:A:O4'	1.88	0.74
1:AA:2787:C:C5'	5:AE:64:LYS:HD2	2.18	0.74
1:AA:2820:A:O3'	15:AO:4:LEU:HD22	1.87	0.74
2:AB:44:G:H21	2:AB:48:A:H1'	1.52	0.74
3:AC:26:ALA:HB1	3:AC:182:PRO:HA	1.68	0.74
3:AC:86:ALA:CA	3:AC:150:GLY:HA2	2.18	0.74
4:AD:42:GLY:CA	4:AD:60:ARG:HH22	2.01	0.74
4:AD:66:ASP:OD2	4:AD:103:ARG:HD3	1.86	0.74
4:AD:77:ALA:CB	4:AD:95:LEU:HD21	2.15	0.74
4:AD:85:ASP:C	4:AD:87:ASN:H	1.93	0.74
4:AD:225:ALA:HB3	4:AD:231:HIS:CE1	2.22	0.74
6:AF:31:HIS:ND1	13:AM:11:GLY:HA3	2.02	0.74
6:AF:31:HIS:CB	13:AM:14:LYS:HZ2	2.00	0.74
8:AH:128:PRO:O	8:AH:131:VAL:HB	1.85	0.74
11:AK:117:PHE:HA	11:AK:120:LEU:HB3	1.68	0.74
12:AL:68:GLU:HG2	12:AL:76:ALA:C	2.13	0.74
14:AN:58:PHE:O	14:AN:60:ARG:N	2.21	0.74
22:AV:12:THR:HG22	22:AV:13:VAL:N	2.01	0.74
24:AX:56:ASP:OD1	24:AX:58:THR:HB	1.88	0.74
28:Ab:35:GLU:HB3	28:Ab:49:CYS:CB	2.16	0.74
34:BA:88:C:O2'	34:BA:89:U:C6	2.41	0.74
34:BA:101:A:H2'	34:BA:102:G:C8	2.19	0.74
34:BA:274:A:O2'	34:BA:275:G:C1'	2.35	0.74
34:BA:281:G:H4'	34:BA:282:A:H5'	1.70	0.74
34:BA:1118:C:C6	34:BA:1179:A:C2	2.68	0.74
37:BH:58:LEU:HD13	37:BH:58:LEU:C	2.12	0.74
37:BH:152:SER:O	37:BH:154:ASN:N	2.20	0.74
39:BJ:26:ILE:HG22	39:BJ:30:LEU:HD11	1.70	0.74
43:BN:5:ARG:HB2	43:BN:5:ARG:CZ	2.17	0.74
44:BO:19:ALA:HB2	44:BO:80:VAL:HG21	1.68	0.74
44:BO:44:SER:O	44:BO:48:ILE:HG12	1.87	0.74
44:BO:48:ILE:HD11	44:BO:64:ALA:HB2	1.67	0.74
46:BQ:36:LYS:HG2	46:BQ:56:LEU:HD22	1.66	0.74
55:CA:13:HIS:ND1	55:CA:15:ASP:O	2.19	0.74
55:CA:289:CYS:HB2	55:CA:294:VAL:HG11	1.67	0.74
55:CA:307:VAL:HG12	55:CA:366:LEU:HD11	1.67	0.74
55:CA:580:VAL:HG12	55:CA:585:ILE:HD12	1.70	0.74
1:AA:386:G:H4'	1:AA:387:U:C5	2.23	0.74
1:AA:571:A:C8	1:AA:575:A:N6	2.55	0.74
1:AA:997:G:H5''	18:AR:92:ARG:HD2	1.69	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1056:G:H4'	9:AI:34:ALA:HB2	1.68	0.74
1:AA:1238:G:C2'	1:AA:1239:G:H5'	2.18	0.74
1:AA:1706:U:H2'	1:AA:1706:U:O2	1.86	0.74
1:AA:1943:U:H4'	1:AA:1944:U:C5'	2.18	0.74
1:AA:2178:C:H5''	3:AC:46:LYS:NZ	2.02	0.74
1:AA:2282:G:H4'	1:AA:2283:C:OP2	1.88	0.74
1:AA:2795:G:H2'	1:AA:2795:G:N3	2.02	0.74
1:AA:2809:A:OP1	1:AA:2809:A:H3'	1.87	0.74
4:AD:63:ARG:HH11	4:AD:87:ASN:HD21	1.35	0.74
5:AE:149:ARG:HE	5:AE:150:VAL:C	1.95	0.74
6:AF:41:LEU:HB2	6:AF:44:ARG:NH2	2.02	0.74
7:AG:104:GLU:HG3	7:AG:105:LYS:N	2.02	0.74
8:AH:156:ALA:HB1	8:AH:172:LYS:HZ1	1.53	0.74
10:AJ:104:VAL:HG12	10:AJ:127:ILE:HD12	0.80	0.74
13:AM:16:ARG:HG2	13:AM:19:VAL:HG13	1.67	0.74
14:AN:54:MET:SD	14:AN:121:ALA:HB2	2.27	0.74
14:AN:78:PRO:HB3	14:AN:81:VAL:CG2	2.18	0.74
14:AN:134:ARG:HH21	14:AN:137:TYR:HD1	1.36	0.74
16:AP:14:VAL:C	16:AP:18:ILE:HD13	2.13	0.74
17:AQ:53:ARG:NH2	17:AQ:102:ILE:H	1.84	0.74
23:AW:77:ASP:OD2	23:AW:80:ARG:HD3	1.88	0.74
24:AX:72:ARG:HB2	24:AX:78:TYR:CD1	2.22	0.74
34:BA:17:U:H2'	34:BA:18:C:H6	1.53	0.74
34:BA:52:G:H2'	34:BA:53:A:O4'	1.87	0.74
34:BA:236:G:H3'	34:BA:237:C:H6	1.52	0.74
34:BA:301:G:N2	34:BA:302:G:H1'	2.02	0.74
34:BA:475:G:C2'	34:BA:476:G:H8	2.00	0.74
34:BA:728:A:C8	48:BS:54:ARG:CZ	2.71	0.74
34:BA:1068:G:N7	34:BA:1094:G:N7	2.36	0.74
34:BA:1151:A:H62	34:BA:1152:A:N6	1.85	0.74
35:BF:42:ILE:HD11	35:BF:202:PRO:CB	2.17	0.74
35:BF:187:LEU:HD13	35:BF:187:LEU:C	2.11	0.74
36:BG:67:THR:CG2	36:BG:104:GLN:HG2	2.16	0.74
36:BG:91:LEU:HD23	36:BG:91:LEU:C	2.13	0.74
36:BG:150:LYS:HB2	36:BG:173:VAL:CG2	2.14	0.74
39:BJ:24:GLU:O	39:BJ:27:GLN:HB2	1.88	0.74
41:BL:11:THR:HA	41:BL:14:ARG:NH1	2.03	0.74
44:BO:104:GLN:HE22	44:BO:106:LYS:H	1.31	0.74
55:CA:427:LYS:CG	55:CA:442:VAL:HG21	2.16	0.74
55:CA:446:ARG:C	55:CA:480:VAL:HG11	2.13	0.74
1:AA:84:A:O2'	1:AA:103:A:N1	2.20	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:201:C:H2'	1:AA:202:U:H5'	1.68	0.74
1:AA:239:U:H2'	1:AA:240:G:O4'	1.88	0.74
1:AA:542:C:O2'	1:AA:543:C:H5'	1.88	0.74
1:AA:563:G:H21	18:AR:34:LYS:HE2	1.50	0.74
1:AA:572:A:H2	1:AA:2033:A:N1	1.86	0.74
1:AA:623:G:OP2	13:AM:105:LEU:HD11	1.87	0.74
1:AA:673:C:N4	1:AA:808:G:H1	1.85	0.74
1:AA:1046:A:N6	9:AI:9:LEU:CA	2.49	0.74
1:AA:1152:C:O2'	18:AR:80:ILE:HD12	1.88	0.74
1:AA:1190:G:OP1	13:AM:31:ALA:N	2.20	0.74
1:AA:1566:A:C4	4:AD:215:LEU:HD22	2.22	0.74
1:AA:1716:U:O2	1:AA:1716:U:C2'	2.36	0.74
1:AA:1861:G:H4'	3:AC:205:LYS:NZ	2.02	0.74
1:AA:2051:A:C4	1:AA:2614:A:N6	2.55	0.74
1:AA:2656:U:C4	1:AA:2665:A:N6	2.56	0.74
3:AC:53:ARG:O	3:AC:55:ASP:N	2.21	0.74
4:AD:72:LYS:HD3	4:AD:75:ILE:HD12	1.68	0.74
5:AE:8:LYS:HD3	5:AE:9:VAL:CG2	2.15	0.74
7:AG:32:PRO:HG2	7:AG:172:LEU:HB2	1.70	0.74
7:AG:45:GLU:C	7:AG:47:LYS:H	1.94	0.74
8:AH:76:VAL:HG23	8:AH:77:LYS:N	2.01	0.74
8:AH:85:LYS:NZ	8:AH:141:VAL:HG12	2.02	0.74
8:AH:97:ARG:HA	8:AH:125:VAL:HG11	1.69	0.74
10:AJ:59:ILE:HD13	10:AJ:59:ILE:N	2.03	0.74
10:AJ:112:MET:HG2	10:AJ:122:ALA:HB3	1.65	0.74
13:AM:91:PHE:H	13:AM:125:VAL:CG1	2.01	0.74
14:AN:39:PRO:CG	14:AN:127:ILE:HG12	2.17	0.74
15:AO:55:ALA:HA	15:AO:80:PHE:CD1	2.23	0.74
15:AO:65:LEU:HD23	15:AO:65:LEU:C	2.13	0.74
17:AQ:30:VAL:HG22	17:AQ:32:TYR:OH	1.87	0.74
17:AQ:35:LYS:O	17:AQ:36:GLU:C	2.30	0.74
22:AV:46:LYS:NZ	22:AV:46:LYS:HB3	2.01	0.74
23:AW:9:TYR:HB3	23:AW:14:LYS:HZ3	1.53	0.74
30:Ad:41:ARG:CB	30:Ad:41:ARG:NH1	2.51	0.74
34:BA:110:C:O2'	34:BA:111:G:H5'	1.88	0.74
34:BA:358:U:H1'	55:CA:217:TYR:CD1	2.17	0.74
34:BA:438:G:N2	34:BA:495:A:H8	1.86	0.74
34:BA:468:A:C4'	49:BT:82:GLN:HB3	2.18	0.74
34:BA:915:A:H2'	34:BA:916:G:C5'	2.17	0.74
34:BA:967:C:H2'	34:BA:968:A:N7	2.03	0.74
34:BA:1047:G:H5''	47:BR:4:LYS:HD3	1.70	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1116:C:N3	34:BA:1184:G:O6	2.20	0.74
35:BF:74:LYS:NZ	35:BF:76:GLN:HB2	2.03	0.74
35:BF:84:GLU:OE2	35:BF:219:VAL:HG21	1.87	0.74
37:BH:200:GLU:HG3	37:BH:201:GLN:N	2.01	0.74
38:BI:81:GLU:HB3	38:BI:90:VAL:HG22	1.70	0.74
39:BJ:98:LEU:CD2	39:BJ:101:ALA:HB2	2.17	0.74
40:BK:38:LEU:O	40:BK:41:ARG:HB2	1.87	0.74
41:BL:61:VAL:HG12	41:BL:62:TYR:N	2.02	0.74
44:BO:110:ASP:OD1	51:BV:85:LEU:HB3	1.87	0.74
53:BX:87:LYS:HA	53:BX:87:LYS:CE	2.18	0.74
55:CA:81:PHE:C	55:CA:361:ARG:CB	2.61	0.74
55:CA:102:PHE:HA	55:CA:135:ALA:CB	2.16	0.74
55:CA:164:TYR:C	55:CA:172:ALA:O	2.30	0.74
55:CA:180:ALA:HB3	55:CA:181:GLU:CB	2.18	0.74
55:CA:228:ARG:N	55:CA:267:LEU:CD1	2.38	0.74
55:CA:464:LEU:N	55:CA:464:LEU:HD13	2.03	0.74
1:AA:220:G:N2	1:AA:265:A:H61	1.85	0.74
1:AA:686:G:H4'	1:AA:687:C:OP2	1.85	0.74
1:AA:752:A:N6	1:AA:1781:C:C1'	2.51	0.74
1:AA:875:G:N2	1:AA:902:C:C1'	2.51	0.74
1:AA:953:A:H2'	1:AA:954:G:C5'	2.09	0.74
1:AA:1025:G:N3	1:AA:1025:G:H2'	2.02	0.74
1:AA:1059:G:H1'	10:AJ:75:SER:N	2.02	0.74
1:AA:1142:U:H6	1:AA:1142(A):A:C8	2.05	0.74
1:AA:1270:C:C4'	1:AA:1271:G:H5''	2.18	0.74
1:AA:1372:U:H2'	1:AA:1373:A:H5'	1.70	0.74
1:AA:1394:U:H4'	1:AA:1603:A:C5'	2.18	0.74
1:AA:1464:C:H4'	1:AA:1528:A:H1'	1.70	0.74
1:AA:1556:C:H2'	1:AA:1557:C:H6	1.53	0.74
1:AA:1698:A:H1'	1:AA:1700:A:O5'	1.86	0.74
1:AA:1944:U:H1'	1:AA:1955:U:H6	1.53	0.74
1:AA:1944:U:H1'	1:AA:1955:U:O4'	1.86	0.74
1:AA:2027:G:H2'	1:AA:2028:U:C6	2.21	0.74
1:AA:2209:C:H2'	1:AA:2210:G:H3'	1.69	0.74
1:AA:2278:A:OP1	14:AN:14:ARG:CG	2.33	0.74
1:AA:2387:U:C1'	24:AX:41:ARG:NH2	2.50	0.74
1:AA:2491:U:C6	1:AA:2492:U:C5'	2.70	0.74
1:AA:2675:A:H2'	1:AA:2676:C:H5'	1.69	0.74
2:AB:16:G:H2'	2:AB:17:C:H6	1.50	0.74
2:AB:51:G:C2'	2:AB:52:A:O5'	2.35	0.74
2:AB:104:A:H2'	2:AB:105:G:O4'	1.86	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:63:SER:O	3:AC:65:PRO:HD3	1.88	0.74
3:AC:104:LEU:HD13	3:AC:130:ILE:HD11	1.69	0.74
4:AD:176:ARG:NH2	4:AD:182:LEU:HD11	2.03	0.74
5:AE:109:LYS:N	5:AE:191:PRO:HD3	2.02	0.74
6:AF:194:MET:CE	6:AF:200:GLU:HG2	2.18	0.74
11:AK:102:ALA:O	11:AK:105:GLY:CA	2.36	0.74
12:AL:3:GLN:HG2	12:AL:6:THR:CB	2.16	0.74
12:AL:24:VAL:HG22	12:AL:30:ALA:HA	1.69	0.74
13:AM:121:LYS:H	13:AM:137:LYS:CB	2.01	0.74
14:AN:37:LEU:HA	14:AN:100:GLY:CA	2.17	0.74
18:AR:62:ILE:HG22	18:AR:63:VAL:N	2.01	0.74
21:AU:50:LYS:HG3	21:AU:84:ALA:HB3	1.69	0.74
22:AV:97:ARG:HA	22:AV:101:LYS:CG	2.18	0.74
23:AW:49:ARG:O	23:AW:51:ALA:N	2.21	0.74
34:BA:22:G:H2'	34:BA:23:C:O4'	1.86	0.74
34:BA:449:C:C2	34:BA:450:G:C1'	2.65	0.74
34:BA:528:C:N4	45:BP:49:ASN:ND2	2.35	0.74
34:BA:735:C:H5'	51:BV:71:LYS:HD3	1.69	0.74
34:BA:886:G:C2'	34:BA:887:G:H5'	2.18	0.74
34:BA:965:A:C8	34:BA:969:A:C4	2.75	0.74
34:BA:1057:G:H4'	36:BG:197:GLY:N	2.01	0.74
34:BA:1236:A:H5''	34:BA:1304:G:H5''	1.70	0.74
34:BA:1512:U:H2'	34:BA:1513:A:C8	2.23	0.74
40:BK:149:ARG:HB3	44:BO:59:TYR:CZ	2.23	0.74
41:BL:55:GLY:O	41:BL:57:PRO:HD3	1.88	0.74
46:BQ:11:ARG:O	46:BQ:13:LYS:N	2.21	0.74
46:BQ:15:VAL:H	46:BQ:34:LEU:HD21	1.52	0.74
47:BR:26:ARG:CB	47:BR:43:CYS:HB2	2.18	0.74
49:BT:44:THR:HG23	49:BT:45:THR:HG23	1.69	0.74
51:BV:29:PHE:CE2	51:BV:39:VAL:HG11	2.23	0.74
53:BX:64:ASP:O	53:BX:67:ALA:HB3	1.88	0.74
55:CA:57:LEU:HD12	55:CA:255:LEU:CD2	2.18	0.74
55:CA:126:VAL:HA	55:CA:163:VAL:HB	1.68	0.74
1:AA:28:A:H2'	1:AA:29:U:H5'	1.69	0.74
1:AA:688:U:OP2	30:Ad:2:LYS:HE2	1.88	0.74
1:AA:899:A:C2	1:AA:900:A:H2	2.04	0.74
1:AA:1024:G:H22	1:AA:1139:G:H1	1.32	0.74
1:AA:1160:G:H2'	1:AA:1161:C:H5	1.53	0.74
1:AA:1416:G:N2	1:AA:1582:C:O2	2.20	0.74
1:AA:1476:C:C5	1:AA:1477:A:N6	2.56	0.74
1:AA:1782:C:N4	1:AA:2587:A:C6	2.56	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1799:G:H5''	4:AD:264:LYS:HE2	1.69	0.74
1:AA:1814:G:C2	1:AA:1815:A:N6	2.56	0.74
1:AA:2056:G:N3	1:AA:2056:G:H2'	2.02	0.74
4:AD:69:ARG:NH2	4:AD:130:ALA:HB2	2.02	0.74
4:AD:146:GLU:O	4:AD:189:CYS:HB3	1.88	0.74
5:AE:4:ILE:CG2	5:AE:30:PRO:HG3	2.18	0.74
5:AE:121:ASN:HB3	5:AE:122:PHE:CD1	2.22	0.74
7:AG:9:ARG:HD2	7:AG:10:LYS:NZ	2.03	0.74
7:AG:32:PRO:O	7:AG:172:LEU:HD22	1.87	0.74
8:AH:115:VAL:CG1	8:AH:116:GLU:N	2.49	0.74
8:AH:140:LYS:HA	8:AH:143:GLN:NE2	2.03	0.74
10:AJ:51:ALA:HB3	10:AJ:72:PRO:CB	2.18	0.74
12:AL:24:VAL:HG21	12:AL:26:LYS:CE	2.17	0.74
12:AL:75:SER:C	17:AQ:77:PRO:HG2	2.13	0.74
13:AM:97:PRO:HA	13:AM:102:ARG:NE	2.01	0.74
14:AN:50:ALA:HB2	14:AN:125:LEU:HD11	1.70	0.74
16:AP:6:ALA:HA	16:AP:9:ARG:HH12	1.53	0.74
16:AP:89:ARG:CG	16:AP:90:GLY:H	1.94	0.74
17:AQ:2:ASN:OD1	17:AQ:3:ARG:HG3	1.88	0.74
19:AS:11:GLN:HB3	19:AS:21:ARG:HD2	1.70	0.74
21:AU:12:VAL:O	21:AU:12:VAL:HG12	1.86	0.74
22:AV:46:LYS:CE	22:AV:52:SER:HB2	2.18	0.74
29:Ac:19:ARG:CZ	29:Ac:41:PRO:HG3	2.17	0.74
33:Ag:308:UNK:C	55:CA:142:ASP:CG	2.61	0.74
34:BA:936:C:O2'	34:BA:937:A:H5'	1.88	0.74
34:BA:1057:G:H2'	34:BA:1058:G:H8	1.51	0.74
34:BA:1316:G:C5'	34:BA:1360:A:C4	2.69	0.74
34:BA:1394:A:N7	34:BA:1501:C:C1'	2.51	0.74
35:BF:84:GLU:HG2	35:BF:234:PRO:CD	2.16	0.74
39:BJ:28:ARG:HG2	39:BJ:28:ARG:HH11	1.52	0.74
39:BJ:77:ARG:HA	39:BJ:80:ARG:NE	2.03	0.74
44:BO:32:ILE:HD11	44:BO:68:ALA:O	1.88	0.74
44:BO:69:ALA:HB1	44:BO:103:LEU:HD12	1.69	0.74
45:BP:41:ARG:NH1	45:BP:55:VAL:HG11	2.02	0.74
49:BT:3:LYS:CE	49:BT:24:ALA:HB2	2.17	0.74
49:BT:8:ARG:NH1	49:BT:11:SER:N	2.35	0.74
49:BT:44:THR:CG2	49:BT:45:THR:H	1.90	0.74
51:BV:70:ILE:O	51:BV:73:ALA:HB3	1.86	0.74
51:BV:86:VAL:O	51:BV:87:ARG:HB2	1.88	0.74
52:BW:9:VAL:HG21	52:BW:43:GLU:H	1.53	0.74
52:BW:32:LYS:CB	52:BW:50:ALA:HB3	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:51:GLU:HB3	53:BX:54:LYS:HZ2	1.52	0.74
55:CA:167:ALA:CB	57:CA:701:GCP:N1	2.49	0.74
1:AA:2:G:N7	1:AA:2902:C:N4	2.35	0.74
1:AA:244:A:N6	1:AA:245:G:N3	2.36	0.74
1:AA:656:G:H2'	1:AA:657:U:C6	2.22	0.74
1:AA:899:A:O2'	1:AA:900:A:OP2	2.06	0.74
1:AA:901:A:C4	1:AA:902:C:C5	2.75	0.74
1:AA:1061:U:O2	10:AJ:11:GLN:CD	2.31	0.74
1:AA:1101:U:H6	1:AA:1101:U:OP1	1.70	0.74
1:AA:1104:C:O2'	1:AA:1106:G:OP2	2.05	0.74
1:AA:1312:U:H3'	1:AA:1313:U:H5	1.51	0.74
1:AA:1407:C:H2'	1:AA:1408:C:H6	1.53	0.74
1:AA:1453:A:C6	1:AA:1454:U:H1'	2.23	0.74
1:AA:1574:C:H2'	1:AA:1575:C:O4'	1.87	0.74
1:AA:2357:U:H2'	1:AA:2358:G:C5'	2.18	0.74
1:AA:2833:G:N3	1:AA:2833:G:H2'	2.03	0.74
1:AA:2877:G:H3'	1:AA:2878:U:C5	2.23	0.74
3:AC:19:ILE:HG23	3:AC:223:ARG:CG	2.18	0.74
4:AD:5:LYS:C	4:AD:82:ILE:HD12	2.13	0.74
5:AE:51:PHE:CZ	5:AE:75:VAL:HG22	2.23	0.74
5:AE:81:ILE:HG22	5:AE:82:ARG:HG2	1.70	0.74
5:AE:102:VAL:HA	5:AE:200:GLU:OE1	1.88	0.74
5:AE:182:LEU:CD2	5:AE:184:VAL:HG13	2.18	0.74
6:AF:122:LYS:CE	6:AF:192:LEU:HD12	2.16	0.74
6:AF:131:GLY:CA	6:AF:138:GLU:HG3	2.15	0.74
10:AJ:12:LEU:CD2	10:AJ:57:ILE:HG21	2.15	0.74
12:AL:10:VAL:N	12:AL:17:ARG:HG2	2.01	0.74
13:AM:88:LEU:CG	13:AM:124:LYS:HZ1	2.01	0.74
13:AM:93:GLY:HA2	13:AM:112:LEU:HD12	1.70	0.74
15:AO:64:ARG:HG2	15:AO:65:LEU:N	2.02	0.74
15:AO:94:TYR:C	15:AO:117:VAL:HG12	2.13	0.74
16:AP:62:LYS:CB	16:AP:65:VAL:HG13	2.17	0.74
19:AS:19:LYS:O	19:AS:96:ILE:HD11	1.88	0.74
20:AT:14:PRO:C	20:AT:16:LYS:NZ	2.46	0.74
20:AT:18:ARG:HH11	20:AT:18:ARG:HB2	1.52	0.74
20:AT:20:VAL:HG13	20:AT:21:VAL:N	2.01	0.74
22:AV:9:LYS:HB2	22:AV:110:GLU:CD	2.12	0.74
24:AX:37:LEU:HD21	24:AX:60:PHE:CA	2.18	0.74
26:AZ:31:LEU:HB3	26:AZ:32:GLN:NE2	2.02	0.74
28:Ab:17:ASP:O	28:Ab:21:SER:OG	2.06	0.74
29:Ac:20:ASN:HD22	29:Ac:41:PRO:CB	1.98	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:44:ARG:HB2	29:Ac:47:THR:HG21	1.70	0.74
34:BA:186(A):C:H2'	34:BA:186(B):C:O4'	1.87	0.74
34:BA:730:G:N7	34:BA:731:G:H1'	2.03	0.74
34:BA:854:G:C5'	34:BA:871:U:H3	2.01	0.74
34:BA:959:A:H1'	34:BA:985:C:H1'	1.70	0.74
34:BA:1479:C:O2'	34:BA:1480:G:H5'	1.87	0.74
36:BG:84:ILE:CG1	36:BG:101:LEU:HD22	2.18	0.74
36:BG:85:ARG:NH2	36:BG:89:GLU:HB2	2.01	0.74
37:BH:194:LEU:HB3	37:BH:196:LEU:HD11	1.70	0.74
47:BR:55:GLY:O	47:BR:56:VAL:C	2.31	0.74
48:BS:15:PHE:O	48:BS:17:ARG:N	2.21	0.74
55:CA:400:TYR:CZ	55:CA:444:PRO:CG	2.70	0.74
55:CA:408:GLU:CG	55:CA:436:ARG:NH1	2.47	0.74
1:AA:559:G:H5'	1:AA:559:G:C8	2.18	0.73
1:AA:684:G:C2'	1:AA:687:C:H41	1.98	0.73
1:AA:691:C:C1'	4:AD:45:ASN:HD21	2.01	0.73
1:AA:713:G:H2'	1:AA:713:G:N3	2.03	0.73
1:AA:781:A:C1'	4:AD:222:ARG:NH1	2.49	0.73
1:AA:856:C:H1'	24:AX:69:PHE:CE2	2.23	0.73
1:AA:878:A:C2'	1:AA:879:G:H8	2.00	0.73
1:AA:1045:A:H1'	1:AA:1047:G:H8	1.51	0.73
1:AA:1072:C:H2'	1:AA:1093:G:C5	2.22	0.73
1:AA:1203:G:C4	1:AA:1241:A:H8	2.05	0.73
1:AA:1799:G:H3'	4:AD:183:ARG:HH21	1.52	0.73
1:AA:1825:A:N6	1:AA:1826:G:O6	2.20	0.73
1:AA:2016:U:H5''	1:AA:2058:A:OP1	1.87	0.73
1:AA:2132:U:H5''	1:AA:2133:G:H5'	1.69	0.73
1:AA:2210:G:O6	4:AD:150:LYS:HA	1.87	0.73
1:AA:2286:A:C4'	1:AA:2287:A:H1'	2.14	0.73
1:AA:2839:G:O2'	1:AA:2840:C:H5'	1.88	0.73
1:AA:2848:G:OP2	17:AQ:99:LEU:HD12	1.88	0.73
1:AA:2853:C:H2'	1:AA:2854:G:H8	1.53	0.73
1:AA:2865:U:O5'	1:AA:2865:U:H6	1.71	0.73
2:AB:117:G:C2	2:AB:118:G:C8	2.76	0.73
5:AE:36:ARG:HB3	5:AE:41:LYS:HB2	1.69	0.73
7:AG:49:ASP:O	7:AG:53:LEU:CB	2.33	0.73
7:AG:75:LYS:CD	7:AG:85:GLY:H	2.00	0.73
9:AI:143:GLN:O	9:AI:147:ALA:HB3	1.88	0.73
10:AJ:51:ALA:C	10:AJ:76:TYR:HB3	2.13	0.73
12:AL:79:PHE:HB2	17:AQ:73:GLU:CD	2.12	0.73
13:AM:99:LEU:HD13	13:AM:101:VAL:HG22	1.69	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:116:GLY:HA3	13:AM:121:LYS:O	1.88	0.73
15:AO:98:LEU:HD23	15:AO:99:LYS:NZ	2.01	0.73
17:AQ:55:ASN:HA	17:AQ:62:THR:O	1.88	0.73
20:AT:21:VAL:HA	20:AT:24:ILE:HG13	1.68	0.73
22:AV:47:LYS:HB2	22:AV:49:VAL:CG2	2.18	0.73
23:AW:15:PRO:HB3	23:AW:25:PRO:HB3	1.70	0.73
27:Aa:59:PHE:HD1	27:Aa:60:GLN:H	1.35	0.73
31:Ae:39:LYS:O	31:Ae:42:ARG:HB2	1.87	0.73
34:BA:272:C:H2'	34:BA:273:A:C8	2.23	0.73
34:BA:541:G:C4'	37:BH:42:GLN:HB2	2.18	0.73
34:BA:610:G:C2'	34:BA:611:A:H5'	2.18	0.73
34:BA:1035:A:C2'	34:BA:1036:G:H5'	2.17	0.73
34:BA:1311:G:C4	34:BA:1327:C:C1'	2.71	0.73
34:BA:1323:G:H4'	34:BA:1362(A):C:C4	2.23	0.73
35:BF:111:ARG:HH11	35:BF:111:ARG:CA	2.01	0.73
36:BG:15:THR:CG2	36:BG:181:ASN:HA	2.16	0.73
36:BG:152:ILE:HG22	36:BG:167:TRP:HB2	1.70	0.73
37:BH:147:ALA:HB1	37:BH:181:MET:O	1.85	0.73
39:BJ:73:ASN:O	39:BJ:76:ALA:HB3	1.88	0.73
40:BK:121:ALA:O	40:BK:125:MET:HG2	1.87	0.73
41:BL:101:PRO:O	41:BL:102:ARG:HB2	1.87	0.73
41:BL:104:ARG:O	41:BL:106:GLY:N	2.20	0.73
42:BM:9:ARG:HD2	42:BM:14:VAL:CG2	2.16	0.73
43:BN:45:ARG:HB3	43:BN:45:ARG:NH1	1.98	0.73
49:BT:35:LYS:NZ	49:BT:37:GLY:N	2.36	0.73
55:CA:258:LEU:O	55:CA:260:LEU:HD22	1.88	0.73
1:AA:140:A:H61	1:AA:1596:A:H4'	1.52	0.73
1:AA:292:C:C6	1:AA:293:U:N3	2.56	0.73
1:AA:448:U:C4	1:AA:583:G:H1'	2.23	0.73
1:AA:1036:G:C2	1:AA:1120:G:C5	2.75	0.73
1:AA:1077:A:N6	1:AA:1088:A:H4'	2.02	0.73
1:AA:1197:G:C5	1:AA:1198:U:C5	2.76	0.73
1:AA:1222:C:O2'	1:AA:1223:C:H5'	1.88	0.73
1:AA:1353:A:H2'	1:AA:1354:A:H8	1.52	0.73
1:AA:1670:C:P	1:AA:1671:U:H5	2.10	0.73
1:AA:1952:A:H2	12:AL:22:ILE:HG12	1.53	0.73
1:AA:2052:G:N9	5:AE:150:VAL:HG23	2.03	0.73
1:AA:2073:C:H2'	1:AA:2074:U:O4'	1.88	0.73
1:AA:2497:A:O2'	1:AA:2498:C:O5'	2.06	0.73
1:AA:2684:U:O2'	12:AL:67:LYS:HG3	1.88	0.73
1:AA:2784:C:C1'	5:AE:41:LYS:HZ3	2.00	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:54:ARG:CA	4:AD:219:PRO:HG2	2.17	0.73
5:AE:111:ARG:H	5:AE:161:GLY:CA	2.00	0.73
7:AG:40:ASN:HD22	7:AG:41:GLN:H	1.36	0.73
7:AG:74:LYS:HG2	7:AG:75:LYS:CD	2.18	0.73
7:AG:174:GLU:O	7:AG:179:PRO:HD3	1.88	0.73
8:AH:6:ARG:C	8:AH:69:ARG:HE	1.95	0.73
11:AK:55:VAL:HG21	11:AK:127:ASP:CA	2.18	0.73
11:AK:70:LYS:HA	11:AK:85:ILE:O	1.87	0.73
11:AK:85:ILE:HD12	11:AK:85:ILE:N	2.03	0.73
11:AK:112:LEU:O	11:AK:113:GLY:C	2.29	0.73
12:AL:23:ARG:O	12:AL:39:ILE:HB	1.88	0.73
13:AM:23:PRO:HB2	13:AM:28:GLY:CA	2.15	0.73
18:AR:61:TRP:O	18:AR:62:ILE:C	2.30	0.73
19:AS:21:ARG:HG3	19:AS:21:ARG:HH11	1.52	0.73
23:AW:6:LYS:HD2	23:AW:35:ARG:HD3	1.70	0.73
34:BA:50:A:O2'	34:BA:52:G:N7	2.20	0.73
34:BA:894:G:C4	34:BA:895:G:C8	2.76	0.73
34:BA:1158:C:H1'	35:BF:133:LYS:HZ1	1.51	0.73
35:BF:91:PRO:HD3	35:BF:154:LEU:HD13	1.70	0.73
35:BF:103:THR:OG1	35:BF:180:LEU:HD21	1.86	0.73
36:BG:29:TYR:O	36:BG:32:LEU:HB2	1.89	0.73
37:BH:106:TYR:HB3	37:BH:114:ARG:HE	1.53	0.73
38:BI:82:VAL:HG21	38:BI:137:GLU:HB3	1.70	0.73
40:BK:62:PHE:HA	40:BK:124:LEU:HD21	1.68	0.73
42:BM:115:GLY:O	42:BM:117:HIS:N	2.21	0.73
44:BO:121:PRO:O	44:BO:126:ARG:HD2	1.88	0.73
47:BR:29:ARG:HB3	47:BR:29:ARG:NH1	2.02	0.73
48:BS:5:LYS:HB2	48:BS:5:LYS:NZ	2.03	0.73
48:BS:71:GLN:HB2	48:BS:78:TYR:CE1	2.24	0.73
55:CA:10:ILE:HD12	55:CA:21:LEU:CB	2.17	0.73
55:CA:163:VAL:CG2	55:CA:173:GLY:C	2.48	0.73
1:AA:247:G:C5	1:AA:249:C:O2	2.41	0.73
1:AA:387:U:H4'	1:AA:388:G:O4'	1.88	0.73
1:AA:467:G:OP1	30:Ad:33:ARG:NH1	2.21	0.73
1:AA:546:C:H2'	1:AA:547:A:N9	2.03	0.73
1:AA:556:G:H2'	1:AA:557:U:C6	2.23	0.73
1:AA:775:G:H5'	1:AA:777:A:C1'	2.18	0.73
1:AA:824:A:H2'	1:AA:825:C:C5	2.23	0.73
1:AA:826:U:OP1	1:AA:2429:G:OP1	2.05	0.73
1:AA:836:G:C6	1:AA:837:C:N4	2.56	0.73
1:AA:861:A:C5	1:AA:917:A:C2	2.75	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:942:G:N1	1:AA:943:U:O4	2.21	0.73
1:AA:1055:G:H4'	9:AI:33:PRO:HA	1.71	0.73
1:AA:1406:U:O2'	1:AA:1407:C:O5'	2.02	0.73
1:AA:1513:C:N3	1:AA:1514:U:O4	2.20	0.73
1:AA:1798:U:C5'	4:AD:257:LEU:HB2	2.18	0.73
1:AA:2019:A:C3'	1:AA:2020:A:H5''	2.18	0.73
1:AA:2121:G:H2'	1:AA:2122:U:C6	2.23	0.73
1:AA:2323:G:C2	1:AA:2324:C:C4	2.75	0.73
1:AA:2723:C:H4'	15:AO:2:ARG:O	1.88	0.73
1:AA:2900:A:H2'	1:AA:2901:C:H6	1.54	0.73
3:AC:47:LEU:HG	3:AC:49:ILE:HG23	1.68	0.73
3:AC:86:ALA:HB2	3:AC:149:ILE:HG23	1.67	0.73
5:AE:4:ILE:HG21	5:AE:30:PRO:HG3	1.69	0.73
5:AE:66:HIS:O	5:AE:67:PHE:C	2.32	0.73
7:AG:146:TYR:HE1	7:AG:149:VAL:HA	1.52	0.73
8:AH:6:ARG:HD2	8:AH:66:GLY:HA2	1.69	0.73
8:AH:7:LEU:HD22	8:AH:65:HIS:NE2	2.04	0.73
8:AH:127:GLU:HG3	8:AH:130:ARG:HB2	1.69	0.73
12:AL:76:ALA:CA	17:AQ:77:PRO:HD2	2.18	0.73
13:AM:7:ARG:HD2	13:AM:8:PRO:HD3	1.70	0.73
14:AN:41:TRP:CA	14:AN:95:ALA:O	2.35	0.73
15:AO:86:ARG:NH1	15:AO:118:GLU:OE2	2.21	0.73
17:AQ:79:HIS:HB2	17:AQ:82:LEU:HB2	1.70	0.73
18:AR:32:PHE:N	18:AR:32:PHE:CD1	2.55	0.73
18:AR:99:ALA:HA	18:AR:106:PHE:HB2	1.69	0.73
18:AR:110:VAL:HG12	18:AR:111:GLU:N	2.03	0.73
20:AT:77:ASP:O	20:AT:102:HIS:O	2.05	0.73
22:AV:42:VAL:CG2	22:AV:61:ILE:HG21	2.18	0.73
22:AV:81:LYS:HD3	22:AV:96:ILE:HG13	1.70	0.73
24:AX:47:PRO:HG2	24:AX:53:MET:HB2	1.69	0.73
25:AY:14:VAL:O	25:AY:17:GLU:HB2	1.88	0.73
32:Af:11:CYS:HB3	32:Af:32:HIS:CD2	2.22	0.73
34:BA:174:C:O2'	34:BA:175:C:H5'	1.88	0.73
34:BA:410:G:H1'	34:BA:432:A:N6	2.02	0.73
34:BA:479:C:O5'	34:BA:479:C:H6	1.71	0.73
34:BA:1110:A:H2'	34:BA:1111:A:C5'	2.16	0.73
34:BA:1128:C:H1'	34:BA:1146:A:N6	2.02	0.73
34:BA:1284:C:H2'	34:BA:1285:A:N7	2.02	0.73
34:BA:1382:C:H2'	34:BA:1383:C:C6	2.23	0.73
35:BF:101:MET:CA	35:BF:108:ILE:HG13	2.18	0.73
37:BH:64:LEU:HD13	37:BH:65:ARG:N	2.03	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:105:VAL:O	40:BK:108:ALA:HB3	1.88	0.73
41:BL:43:GLY:O	41:BL:44:PHE:HB2	1.88	0.73
41:BL:122:ARG:HA	41:BL:125:ARG:NH1	2.03	0.73
42:BM:19:LEU:HD22	42:BM:59:PHE:HD2	1.51	0.73
42:BM:51:ARG:HH11	42:BM:51:ARG:HA	1.50	0.73
43:BN:22:LYS:HZ2	43:BN:90:LEU:HD12	1.54	0.73
45:BP:8:ASN:H	45:BP:8:ASN:HD22	1.35	0.73
46:BQ:36:LYS:CG	46:BQ:56:LEU:HD21	2.17	0.73
51:BV:18:ARG:NH2	51:BV:21:LYS:HB2	2.02	0.73
51:BV:43:PHE:C	51:BV:51:LEU:HD22	2.13	0.73
55:CA:322:GLU:HG3	55:CA:379:GLU:CG	2.19	0.73
1:AA:5:A:C5	1:AA:2899:G:C2	2.76	0.73
1:AA:49:A:H1'	1:AA:118:A:H61	1.50	0.73
1:AA:126:A:H5'	30:Ad:47:ARG:HH22	1.54	0.73
1:AA:245:G:C5	1:AA:246:C:H5	2.06	0.73
1:AA:270(C):C:O2'	1:AA:270(D):C:H5'	1.88	0.73
1:AA:282:A:C5	1:AA:283:A:H4'	2.24	0.73
1:AA:556:G:H2'	1:AA:557:U:H6	1.54	0.73
1:AA:805:G:H2'	1:AA:806:C:OP1	1.86	0.73
1:AA:808:G:H2'	1:AA:809:G:C8	2.24	0.73
1:AA:849:A:N3	26:AZ:21:ALA:HB1	2.02	0.73
1:AA:995:C:H42	11:AK:3:THR:HA	1.54	0.73
1:AA:1028:A:H2	1:AA:2486:G:O2'	1.70	0.73
1:AA:1083:U:N1	1:AA:1085:A:N7	2.36	0.73
1:AA:1583:A:C5'	1:AA:1585:C:H5'	2.18	0.73
1:AA:1655:A:H5''	5:AE:114:ALA:N	2.03	0.73
1:AA:1729:A:N7	1:AA:1731:G:O6	2.21	0.73
1:AA:1799:G:C8	4:AD:268:ARG:NH1	2.57	0.73
1:AA:2027:G:O2'	1:AA:2028:U:H5'	1.88	0.73
1:AA:2296:U:H3'	1:AA:2296:U:C6	2.23	0.73
1:AA:2469:A:H5'	1:AA:2469:A:C8	2.23	0.73
1:AA:2652:C:C4	1:AA:2670:A:N9	2.38	0.73
1:AA:2718:G:H2'	1:AA:2719:G:C8	2.22	0.73
2:AB:58:A:H8	2:AB:58:A:O5'	1.70	0.73
4:AD:17:THR:C	4:AD:19:ALA:H	1.96	0.73
5:AE:93:VAL:HG12	5:AE:177:PRO:O	1.88	0.73
7:AG:28:VAL:O	7:AG:28:VAL:HG12	1.88	0.73
8:AH:26:VAL:HG21	8:AH:75:ALA:CB	2.18	0.73
10:AJ:12:LEU:HD11	10:AJ:57:ILE:HG22	1.71	0.73
10:AJ:23:VAL:HG11	10:AJ:37:PHE:HB2	1.71	0.73
17:AQ:48:ILE:HG12	17:AQ:49:VAL:O	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:74:LEU:CD1	18:AR:78:THR:HG21	2.19	0.73
18:AR:81:HIS:C	18:AR:117:GLN:NE2	2.46	0.73
23:AW:141:VAL:HG13	23:AW:142:SER:H	1.54	0.73
23:AW:168:GLU:OE1	23:AW:169:GLU:HA	1.88	0.73
27:Aa:1:MET:O	27:Aa:2:LYS:HG3	1.88	0.73
27:Aa:14:ILE:HG13	27:Aa:39:CYS:HB2	1.70	0.73
28:Ab:9:LYS:HD2	28:Ab:9:LYS:N	2.02	0.73
31:Ae:7:HIS:O	31:Ae:11:LYS:HG3	1.87	0.73
33:Ag:309:UNK:CB	55:CA:145:PHE:CD2	2.71	0.73
34:BA:49:U:C5	34:BA:361:G:N2	2.56	0.73
34:BA:112:G:C5'	34:BA:389:A:H4'	2.16	0.73
34:BA:266:G:H8	50:BU:67:LYS:NZ	1.80	0.73
34:BA:1064:G:N3	34:BA:1066:C:N3	2.36	0.73
34:BA:1265:G:H2'	34:BA:1266:G:H5'	1.68	0.73
34:BA:1316:G:H5''	47:BR:17:LYS:NZ	2.02	0.73
34:BA:1317:C:O2	34:BA:1318:A:C1'	2.35	0.73
34:BA:1468:A:H2'	34:BA:1469:G:C5'	2.18	0.73
35:BF:115:LEU:O	35:BF:118:LEU:HB3	1.88	0.73
35:BF:171:ALA:O	35:BF:174:VAL:HB	1.88	0.73
37:BH:59:ARG:HA	37:BH:59:ARG:CZ	2.18	0.73
37:BH:109:GLY:O	37:BH:110:PHE:C	2.31	0.73
38:BI:109:ILE:HG23	38:BI:110:LEU:HD23	1.71	0.73
39:BJ:95:GLU:OE2	39:BJ:96:PRO:HD3	1.88	0.73
40:BK:141:VAL:O	40:BK:144:MET:HE2	1.89	0.73
43:BN:60:ARG:HD3	43:BN:60:ARG:H	1.51	0.73
45:BP:41:ARG:HB3	45:BP:41:ARG:HH11	1.53	0.73
45:BP:80:HIS:CB	55:CA:327:THR:CA	2.64	0.73
48:BS:75:PRO:HA	48:BS:78:TYR:CB	2.18	0.73
52:BW:45:VAL:HA	52:BW:67:VAL:HG21	1.70	0.73
53:BX:72:LEU:CD2	53:BX:76:ALA:HB1	2.18	0.73
55:CA:2:ILE:CB	55:CA:199:VAL:HG21	2.17	0.73
1:AA:75:G:H4'	25:AY:50:ARG:HH21	1.51	0.73
1:AA:140:A:C2	1:AA:1408:C:H1'	2.24	0.73
1:AA:192:C:O2	1:AA:802:A:H1'	1.89	0.73
1:AA:270(J):G:H3'	1:AA:270(K):C:C6	2.24	0.73
1:AA:360:G:O2'	1:AA:361:G:H5'	1.89	0.73
1:AA:580:C:H2'	1:AA:581:C:C6	2.23	0.73
1:AA:742:G:H4'	1:AA:1675:C:O2'	1.89	0.73
1:AA:771:G:C6	1:AA:772:C:N4	2.57	0.73
1:AA:815:C:H2'	1:AA:816:C:H5'	1.70	0.73
1:AA:861:A:C6	1:AA:917:A:N3	2.56	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2419:U:O4	31:Ae:31:HIS:HE1	1.69	0.73
1:AA:2520:C:C5	1:AA:2567:G:C4	2.76	0.73
1:AA:2647:U:O2'	1:AA:2648:C:O4'	2.05	0.73
1:AA:2716:U:O2'	1:AA:2717:G:C5'	2.37	0.73
1:AA:2732:G:H3'	1:AA:2733:A:C5'	2.19	0.73
1:AA:2745:C:O2'	8:AH:143:GLN:HG3	1.88	0.73
1:AA:2776:A:H4'	1:AA:2777:G:O5'	1.88	0.73
2:AB:84:C:H2'	2:AB:85:G:H5''	1.70	0.73
4:AD:10:THR:O	4:AD:11:PRO:C	2.31	0.73
5:AE:129:HIS:H	5:AE:129:HIS:CD2	2.05	0.73
5:AE:190:GLY:O	5:AE:191:PRO:O	2.05	0.73
8:AH:118:PRO:HD2	8:AH:121:ILE:CD1	2.17	0.73
10:AJ:104:VAL:CG1	10:AJ:127:ILE:HD12	1.29	0.73
11:AK:74:ARG:O	11:AK:75:TYR:C	2.31	0.73
11:AK:103:VAL:HG22	11:AK:104:LYS:N	2.04	0.73
11:AK:107:LEU:HD22	11:AK:117:PHE:CE2	2.23	0.73
12:AL:64:ARG:HG3	12:AL:65:THR:N	2.01	0.73
14:AN:137:TYR:CE2	23:AW:124:ILE:HD11	2.23	0.73
17:AQ:109:GLU:O	17:AQ:110:ILE:HB	1.87	0.73
18:AR:98:LEU:HB3	18:AR:105:VAL:HG11	1.68	0.73
19:AS:14:VAL:HG11	19:AS:19:LYS:CG	2.15	0.73
27:Aa:52:THR:HG22	27:Aa:53:GLU:H	1.48	0.73
32:Af:16:VAL:HG13	32:Af:16:VAL:O	1.87	0.73
34:BA:440:A:H3'	34:BA:442:C:H6	1.53	0.73
34:BA:489:C:H2'	34:BA:490:G:H8	1.51	0.73
34:BA:1329:A:C4'	46:BQ:29:ARG:HH21	1.51	0.73
34:BA:1440:C:H2'	34:BA:1441:G:H5'	1.69	0.73
35:BF:71:VAL:CG1	35:BF:73:THR:HG23	2.19	0.73
36:BG:190:ARG:HE	36:BG:190:ARG:CA	1.99	0.73
36:BG:201:TYR:N	36:BG:201:TYR:CD1	2.55	0.73
42:BM:37:PHE:CE1	42:BM:74:ILE:HG23	2.22	0.73
42:BM:97:LYS:HZ1	42:BM:102:LEU:CD1	2.00	0.73
46:BQ:22:ILE:CB	46:BQ:25:ILE:HD11	1.99	0.73
46:BQ:77:ASN:O	46:BQ:80:ARG:NH1	2.21	0.73
46:BQ:87:TYR:N	52:BW:73:GLU:O	1.99	0.73
49:BT:20:VAL:CG1	49:BT:21:VAL:N	2.51	0.73
55:CA:4:LYS:O	55:CA:68:TYR:CD1	2.40	0.73
55:CA:27:GLN:CD	55:CA:183:MET:CG	2.61	0.73
55:CA:407:VAL:HA	55:CA:408:GLU:HB2	1.70	0.73
1:AA:125:G:O3'	30:Ad:47:ARG:NH2	2.22	0.73
1:AA:322:A:C5'	1:AA:341:G:H5'	2.18	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:A:O2'	1:AA:334:C:OP2	2.05	0.73
1:AA:363(C):G:O2'	1:AA:363(D):G:H5'	1.88	0.73
1:AA:452:G:H3'	1:AA:453:C:C5'	2.13	0.73
1:AA:623:G:H2'	1:AA:624:C:H5''	1.68	0.73
1:AA:697:C:C2'	1:AA:698:C:H5''	2.18	0.73
1:AA:911:A:H8	1:AA:2264:C:C1'	1.95	0.73
1:AA:1102:C:H3'	1:AA:1104:C:H5	1.52	0.73
1:AA:1245:G:O2'	1:AA:1246:A:H5'	1.88	0.73
1:AA:1359:A:C2'	1:AA:1360:A:H5'	2.18	0.73
1:AA:1438:U:H2'	1:AA:1439:A:C5'	2.17	0.73
1:AA:1665:A:H5''	12:AL:65:THR:O	1.88	0.73
1:AA:1987:G:C2	1:AA:1988:C:C5	2.76	0.73
1:AA:2033:A:C6	1:AA:2036:C:C4	2.77	0.73
1:AA:2135:A:C4'	1:AA:2136:C:H5	2.01	0.73
1:AA:2227:A:H1'	4:AD:262:ARG:NH1	2.04	0.73
1:AA:2563:U:N3	1:AA:2566:A:OP2	2.20	0.73
1:AA:2611:U:H5'	1:AA:2611:U:H6	1.54	0.73
1:AA:2619:C:H5''	5:AE:152:LYS:HB2	1.69	0.73
1:AA:2629:A:H5'	1:AA:2895:U:C6	2.22	0.73
4:AD:60:ARG:HA	4:AD:62:TYR:CZ	2.23	0.73
5:AE:8:LYS:HG2	17:AQ:6:LEU:HD11	1.70	0.73
7:AG:135:LEU:HD11	7:AG:137:GLU:C	2.14	0.73
7:AG:138:GLN:OE1	7:AG:152:LEU:HD12	1.88	0.73
10:AJ:104:VAL:HG11	10:AJ:127:ILE:CB	2.17	0.73
12:AL:94:ARG:CG	12:AL:96:THR:H	2.01	0.73
16:AP:74:ALA:HB1	16:AP:108:GLY:H	1.51	0.73
17:AQ:11:GLU:N	17:AQ:11:GLU:OE2	2.22	0.73
19:AS:62:LEU:CD1	19:AS:98:GLU:HG2	2.18	0.73
21:AU:50:LYS:HZ2	21:AU:85:PRO:HD2	1.54	0.73
21:AU:57:LEU:HD23	21:AU:58:HIS:N	2.04	0.73
23:AW:68:PRO:HG3	23:AW:131:ARG:HH22	1.51	0.73
29:Ac:54:ILE:HD13	29:Ac:54:ILE:O	1.89	0.73
30:Ad:17:GLY:C	30:Ad:21:ARG:HH12	1.97	0.73
34:BA:310:G:H2'	34:BA:311:C:H6	1.54	0.73
34:BA:553:A:H2'	34:BA:554:C:H6	1.51	0.73
34:BA:889:A:H4'	34:BA:890:G:O5'	1.85	0.73
34:BA:1011:G:H2'	34:BA:1012:U:H5'	1.68	0.73
34:BA:1118:C:P	42:BM:103:THR:CG2	2.76	0.73
34:BA:1273:G:H3'	34:BA:1274:G:C8	2.23	0.73
34:BA:1317:C:H6	34:BA:1317:C:O5'	1.72	0.73
34:BA:1413:A:O2'	34:BA:1414:U:C5'	2.36	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1431:C:N4	34:BA:1469:G:H1	1.86	0.73
34:BA:1484:C:C2'	34:BA:1485:U:C5'	2.60	0.73
35:BF:77:ALA:HB2	35:BF:211:ILE:CD1	2.19	0.73
35:BF:174:VAL:C	35:BF:178:ARG:HG2	2.13	0.73
45:BP:46:LYS:HE3	45:BP:47:LYS:NZ	2.04	0.73
45:BP:104:VAL:HG12	45:BP:105:TYR:CD1	2.24	0.73
50:BU:7:THR:CG2	50:BU:8:GLY:N	2.50	0.73
55:CA:21:LEU:HD11	55:CA:98:VAL:HG21	1.67	0.73
55:CA:157:GLN:C	55:CA:159:ASP:HB3	2.13	0.73
55:CA:205:PHE:CZ	55:CA:231:VAL:HG23	2.23	0.73
55:CA:205:PHE:HA	55:CA:229:GLY:HA3	1.70	0.73
55:CA:209:ILE:HD13	55:CA:288:VAL:CG2	2.19	0.73
55:CA:419:LEU:HD12	55:CA:441:TYR:CG	2.22	0.73
55:CA:509:LYS:HG2	55:CA:561:ILE:CD1	2.13	0.73
1:AA:126:A:N7	1:AA:127:A:C4	2.56	0.73
1:AA:373:U:O2	1:AA:400:G:N2	2.22	0.73
1:AA:558:G:OP1	11:AK:112:LEU:HG	1.88	0.73
1:AA:563:G:N2	18:AR:34:LYS:HE2	2.04	0.73
1:AA:648:G:H2'	1:AA:649:G:C8	2.24	0.73
1:AA:727:A:H2'	1:AA:728:G:H5'	1.69	0.73
1:AA:1046:A:N6	9:AI:9:LEU:CB	2.52	0.73
1:AA:1051:G:O4'	1:AA:2752:C:OP1	2.07	0.73
1:AA:1212:G:HO2'	1:AA:1213:A:H8	1.36	0.73
1:AA:1316:U:O2'	1:AA:1317:A:H5'	1.88	0.73
1:AA:1530:G:H2'	1:AA:1531:C:N1	2.03	0.73
1:AA:1602:U:O5'	1:AA:1602:U:C2	2.41	0.73
1:AA:1772:G:H21	1:AA:1774:C:H5'	1.52	0.73
1:AA:1774:C:C4	4:AD:18:VAL:HG11	2.23	0.73
1:AA:1949:G:O2'	1:AA:1950:G:H5'	1.89	0.73
1:AA:2031:A:N6	1:AA:2498:C:N1	2.37	0.73
1:AA:2284:C:O2'	1:AA:2325:G:N2	2.22	0.73
1:AA:2512:C:H5''	5:AE:120:TRP:CZ2	2.22	0.73
1:AA:2591:C:C2'	1:AA:2592:G:H8	1.92	0.73
3:AC:6:ARG:HD2	3:AC:6:ARG:O	1.87	0.73
3:AC:131:LEU:HD13	3:AC:137:LEU:HA	1.71	0.73
4:AD:63:ARG:NH1	4:AD:63:ARG:HB2	2.04	0.73
4:AD:158:ALA:C	4:AD:160:GLY:H	1.94	0.73
5:AE:49:LEU:HD13	5:AE:76:ARG:O	1.87	0.73
6:AF:118:ALA:CB	6:AF:122:LYS:HE2	2.17	0.73
8:AH:103:LEU:C	8:AH:105:LEU:HG	2.14	0.73
10:AJ:98:ARG:CZ	10:AJ:100:THR:HA	2.19	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:105:GLU:C	12:AL:111:PHE:HZ	1.96	0.73
15:AO:56:LYS:O	15:AO:57:ARG:C	2.32	0.73
16:AP:26:LEU:HD11	16:AP:37:ALA:HB1	1.70	0.73
17:AQ:56:GLY:O	17:AQ:61:PHE:HB3	1.89	0.73
18:AR:59:ARG:HB3	18:AR:59:ARG:NH1	2.04	0.73
21:AU:60:ARG:HD3	21:AU:62:LYS:HZ3	1.52	0.73
22:AV:86:ARG:HG2	22:AV:91:GLU:CB	2.18	0.73
23:AW:48:PHE:HB3	23:AW:54:HIS:CE1	2.23	0.73
25:AY:51:GLN:O	25:AY:55:LEU:HD13	1.88	0.73
27:Aa:66:SER:HA	27:Aa:69:LYS:CD	2.15	0.73
34:BA:14:U:H2'	34:BA:16:A:OP2	1.89	0.73
34:BA:590:C:OP1	41:BL:29:SER:HB3	1.88	0.73
34:BA:595:G:C8	34:BA:641:U:N3	2.57	0.73
34:BA:760:G:H1	50:BU:105:ALA:C	1.97	0.73
34:BA:961:U:H1'	34:BA:1201:A:N6	2.04	0.73
34:BA:1316:G:H5'	34:BA:1360:A:C5	2.22	0.73
34:BA:1504:G:H4'	34:BA:1505:G:O5'	1.87	0.73
34:BA:1512:U:H2'	34:BA:1513:A:H8	1.54	0.73
34:BA:1517:G:N2	34:BA:1518:A:H1'	2.02	0.73
36:BG:20:SER:CB	36:BG:40:ARG:HH22	1.97	0.73
36:BG:156:ARG:HB3	36:BG:193:TYR:CD1	2.24	0.73
37:BH:82:ALA:HB1	37:BH:92:VAL:HB	1.70	0.73
37:BH:101:LEU:HB2	37:BH:138:TYR:O	1.89	0.73
38:BI:143:ARG:O	38:BI:147:ASP:HB2	1.87	0.73
40:BK:27:ILE:HG12	40:BK:43:PHE:CD1	2.23	0.73
40:BK:107:ALA:O	40:BK:110:GLN:HB2	1.88	0.73
43:BN:45:ARG:HH11	43:BN:45:ARG:CB	1.98	0.73
44:BO:13:GLN:HB3	44:BO:76:GLY:HA3	1.71	0.73
47:BR:15:LYS:O	47:BR:16:PHE:HB2	1.87	0.73
51:BV:56:THR:HB	51:BV:58:LEU:HD12	1.69	0.73
53:BX:57:ARG:HH21	53:BX:100:ILE:HB	1.53	0.73
55:CA:311:PHE:O	55:CA:355:ALA:C	2.30	0.73
55:CA:502:PHE:CG	55:CA:555:VAL:HG21	2.23	0.73
1:AA:5:A:N1	1:AA:2899:G:N7	2.37	0.73
1:AA:15:G:O2'	1:AA:16:G:H5'	1.88	0.73
1:AA:51:G:H1'	1:AA:118:A:H62	1.53	0.73
1:AA:71:A:N3	1:AA:73:A:C6	2.57	0.73
1:AA:248:G:N3	1:AA:2431:U:C5'	2.51	0.73
1:AA:643:A:H1'	1:AA:644:A:N7	2.02	0.73
1:AA:947:G:O5'	1:AA:947:G:H8	1.70	0.73
1:AA:1036:G:OP1	8:AH:59:ARG:HD3	1.87	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1049:C:H5	1:AA:2751:G:O6	1.68	0.73
1:AA:1081:U:H5'	10:AJ:125:ARG:HG2	1.69	0.73
1:AA:1341:U:N3	1:AA:1398:C:H5'	2.02	0.73
1:AA:1851:U:H2'	1:AA:1852:C:C6	2.24	0.73
1:AA:2168:G:H2'	1:AA:2170:A:OP2	1.89	0.73
1:AA:2408:U:O2'	1:AA:2409:G:H5'	1.88	0.73
1:AA:2415:G:H5''	13:AM:61:ARG:CD	2.19	0.73
1:AA:2433:A:OP2	1:AA:2433:A:H3'	1.88	0.73
2:AB:73:A:H2'	2:AB:74:U:C6	2.23	0.73
3:AC:148:ASN:ND2	3:AC:152:ILE:HG13	2.04	0.73
4:AD:46:GLN:CD	4:AD:51:VAL:HG23	2.13	0.73
5:AE:119:ARG:HE	5:AE:120:TRP:N	1.87	0.73
7:AG:26:GLN:HG2	7:AG:29:TRP:CZ3	2.24	0.73
8:AH:11:VAL:HG13	8:AH:15:VAL:CG1	2.18	0.73
12:AL:10:VAL:HG22	12:AL:12:ASP:OD1	1.89	0.73
12:AL:115:VAL:HG12	34:BA:345:C:C2	2.12	0.73
14:AN:42:ILE:O	14:AN:94:VAL:HB	1.87	0.73
15:AO:45:ARG:CB	15:AO:95:THR:HG21	2.17	0.73
17:AQ:29:ARG:CG	17:AQ:51:ARG:HG2	2.18	0.73
18:AR:30:LYS:HD2	18:AR:30:LYS:H	1.54	0.73
18:AR:108:GLU:HB2	18:AR:111:GLU:OE2	1.88	0.73
23:AW:73:GLN:O	23:AW:74:VAL:HG23	1.89	0.73
23:AW:151:HIS:CB	23:AW:168:GLU:HG2	2.18	0.73
23:AW:161:VAL:HG12	23:AW:162:GLU:N	2.03	0.73
25:AY:23:LYS:HE3	25:AY:52:ILE:HG12	1.71	0.73
31:Ae:21:LYS:HB2	31:Ae:21:LYS:NZ	1.98	0.73
33:Ag:7:UNK:O	33:Ag:148:UNK:CA	2.36	0.73
34:BA:270:A:H2'	34:BA:271:C:C6	2.23	0.73
34:BA:968:A:H4'	34:BA:969:A:OP2	1.89	0.73
34:BA:1105:A:H2'	34:BA:1106:G:H8	1.54	0.73
34:BA:1346:A:N6	34:BA:1374:A:H3'	2.03	0.73
34:BA:1364:U:O2'	34:BA:1365:G:OP1	2.06	0.73
36:BG:120:VAL:HG21	36:BG:137:ALA:CB	2.18	0.73
36:BG:186:PHE:HA	36:BG:198:VAL:O	1.88	0.73
37:BH:24:GLU:C	37:BH:27:TYR:HB3	2.14	0.73
40:BK:72:ARG:HH22	40:BK:138:LYS:HZ3	1.37	0.73
42:BM:40:LEU:C	42:BM:42:ARG:N	2.45	0.73
44:BO:25:TYR:HD1	44:BO:89:ALA:HB2	1.54	0.73
55:CA:146:ASP:HA	55:CA:149:VAL:CG1	2.19	0.73
55:CA:322:GLU:CB	55:CA:582:PRO:HD2	2.18	0.73
55:CA:419:LEU:HD12	55:CA:441:TYR:CD1	2.22	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:423:LYS:O	55:CA:425:ASP:N	2.22	0.73
1:AA:4:C:N3	1:AA:2899:G:C6	2.57	0.73
1:AA:336:C:O2'	1:AA:337:C:H5'	1.89	0.73
1:AA:465:G:H21	1:AA:683:C:H2'	1.53	0.73
1:AA:531:C:N3	18:AR:38:THR:HG22	2.03	0.73
1:AA:624:C:C6	1:AA:624:C:C3'	2.71	0.73
1:AA:1062:G:C5	1:AA:1063:G:C5	2.77	0.73
1:AA:1473:G:N1	1:AA:1519:G:H1'	2.04	0.73
1:AA:1707:G:H2'	1:AA:1708:C:H6	1.54	0.73
1:AA:1709:U:H1'	1:AA:2860:A:H1'	1.71	0.73
1:AA:1775:U:C2	4:AD:208:LYS:HD2	2.23	0.73
1:AA:1807:G:H21	1:AA:1809:A:C5'	2.02	0.73
1:AA:1839:G:C8	1:AA:1927:A:O4'	2.41	0.73
1:AA:2284:C:H5''	29:Ac:9:LEU:CD2	2.18	0.73
1:AA:2433:A:H2'	1:AA:2433:A:N3	2.03	0.73
1:AA:2497:A:O2'	1:AA:2498:C:C6	2.42	0.73
1:AA:2547:U:H2'	1:AA:2548:G:H5''	1.71	0.73
1:AA:2619:C:C5'	5:AE:152:LYS:HA	2.18	0.73
1:AA:2687:U:O2	1:AA:2688:U:H6	1.71	0.73
1:AA:2841:C:C2	1:AA:2842:G:N7	2.57	0.73
2:AB:78:A:C2'	2:AB:79:C:H5'	2.18	0.73
4:AD:5:LYS:HD2	4:AD:113:VAL:HG21	1.70	0.73
5:AE:2:LYS:HD3	5:AE:83:ASP:HB3	1.70	0.73
6:AF:31:HIS:ND1	13:AM:14:LYS:HE3	2.04	0.73
6:AF:93:LYS:HG2	6:AF:94:PRO:O	1.88	0.73
7:AG:55:LYS:HG3	7:AG:148:MET:CB	2.19	0.73
7:AG:135:LEU:HD22	7:AG:136:ARG:H	1.52	0.73
10:AJ:64:SER:HB2	10:AJ:65:PHE:HD1	1.53	0.73
11:AK:95:PRO:HA	11:AK:98:VAL:HG23	1.70	0.73
11:AK:103:VAL:HG22	11:AK:104:LYS:H	1.52	0.73
12:AL:63:VAL:HG21	12:AL:82:ASN:OD1	1.89	0.73
13:AM:92:GLU:H	13:AM:125:VAL:HG11	1.54	0.73
16:AP:89:ARG:HG3	16:AP:90:GLY:N	2.02	0.73
23:AW:28:MET:SD	23:AW:29:TYR:N	2.62	0.73
27:Aa:56:VAL:O	27:Aa:61:ARG:NH2	2.20	0.73
30:Ad:24:THR:HG23	30:Ad:27:GLY:HA3	1.71	0.73
34:BA:116:A:OP2	34:BA:289:G:H5''	1.88	0.73
34:BA:275:G:H5'	50:BU:14:LYS:HZ2	1.51	0.73
34:BA:283:C:N3	34:BA:284:G:C8	2.57	0.73
34:BA:873:A:H5'	34:BA:874:G:OP2	1.89	0.73
34:BA:1015:A:H2'	34:BA:1016:A:C8	2.24	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1151:A:C6	34:BA:1152:A:N7	2.57	0.73
34:BA:1412:C:C4	34:BA:1489:G:O6	2.42	0.73
35:BF:189:ASP:HB2	35:BF:205:ASP:HB3	1.69	0.73
37:BH:18:LYS:HE3	37:BH:33:MET:HB2	1.69	0.73
37:BH:82:ALA:HB3	37:BH:89:THR:CG2	2.17	0.73
37:BH:200:GLU:CG	37:BH:201:GLN:HE21	2.02	0.73
38:BI:63:ARG:O	38:BI:66:MET:HG2	1.88	0.73
38:BI:86:ALA:HB3	38:BI:130:ASN:ND2	2.03	0.73
38:BI:106:PRO:O	38:BI:109:ILE:HG22	1.89	0.73
40:BK:51:GLN:OE1	40:BK:58:PRO:HD3	1.88	0.73
41:BL:70:GLN:NE2	41:BL:71:GLY:H	1.87	0.73
41:BL:93:VAL:O	41:BL:133:LEU:HG	1.89	0.73
43:BN:23:ILE:CG1	43:BN:85:LEU:HB3	2.18	0.73
44:BO:95:ILE:O	44:BO:98:LEU:HB2	1.89	0.73
45:BP:84:LEU:HD23	45:BP:84:LEU:C	2.14	0.73
46:BQ:65:LYS:CG	46:BQ:69:GLU:HB3	2.18	0.73
48:BS:36:ILE:HA	48:BS:59:MET:HE1	1.71	0.73
49:BT:72:ARG:NH2	49:BT:73:LEU:HB2	2.04	0.73
51:BV:53:ARG:HG2	51:BV:63:GLN:HE21	1.53	0.73
52:BW:8:GLY:O	52:BW:10:PHE:N	2.22	0.73
53:BX:40:ALA:HB2	53:BX:55:ILE:CG2	2.18	0.73
55:CA:82:GLY:HA3	55:CA:361:ARG:HB3	1.71	0.73
55:CA:200:ASP:CB	55:CA:228:ARG:CG	2.52	0.73
55:CA:400:TYR:CZ	55:CA:444:PRO:CB	2.62	0.73
1:AA:187:G:H2'	1:AA:1365:A:C2	2.22	0.73
1:AA:455:C:C4'	1:AA:456:C:OP1	2.36	0.73
1:AA:917:A:C8	1:AA:918:A:H5''	2.23	0.73
1:AA:1044:G:N2	1:AA:1046:A:N7	2.37	0.73
1:AA:1158:C:H4'	26:AZ:32:GLN:NE2	2.02	0.73
1:AA:1163:G:C2	1:AA:1164:G:C8	2.76	0.73
1:AA:1270:C:C1'	1:AA:1325:G:N7	2.48	0.73
1:AA:1355:G:H22	1:AA:1377:G:H1'	1.53	0.73
1:AA:1364:G:H5''	1:AA:1809:A:C4	2.24	0.73
1:AA:1530:G:H3'	1:AA:1531:C:C6	2.24	0.73
1:AA:1668:A:N3	1:AA:1669:A:N1	2.37	0.73
1:AA:2010:G:C2'	1:AA:2011:U:H5'	2.19	0.73
1:AA:2027:G:H1'	1:AA:2037:G:H22	1.52	0.73
1:AA:2208:U:H1'	1:AA:2217:G:N1	2.03	0.73
1:AA:2459:A:C2	1:AA:2460:U:H1'	2.23	0.73
1:AA:2807:G:H3'	1:AA:2808:U:C5	2.22	0.73
4:AD:95:LEU:O	4:AD:102:LYS:HB3	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:54:GLN:HB3	5:AE:57:LYS:HE2	1.71	0.73
5:AE:200:GLU:CB	5:AE:202:LYS:HZ3	2.02	0.73
6:AF:41:LEU:HB3	6:AF:184:TYR:HE2	1.53	0.73
7:AG:128:ARG:HH22	7:AG:162:THR:HA	1.54	0.73
8:AH:8:PRO:CB	8:AH:51:ARG:HH22	2.01	0.73
11:AK:13:TRP:O	11:AK:138:LEU:HD12	1.87	0.73
11:AK:74:ARG:HE	11:AK:82:LEU:HD11	1.54	0.73
11:AK:116:LEU:HD23	11:AK:116:LEU:C	2.14	0.73
12:AL:68:GLU:CD	12:AL:76:ALA:HB3	2.13	0.73
12:AL:97:ARG:NH1	12:AL:97:ARG:CB	2.39	0.73
15:AO:20:LEU:HD11	15:AO:24:GLN:OE1	1.89	0.73
16:AP:76:LYS:HE3	16:AP:77:ALA:HB2	1.70	0.73
27:Aa:59:PHE:N	27:Aa:62:ARG:CZ	2.52	0.73
34:BA:50:A:N6	34:BA:361:G:C4'	2.50	0.73
34:BA:193:C:H2'	34:BA:194:C:C6	2.24	0.73
34:BA:599:C:H4'	41:BL:130:GLY:CA	2.08	0.73
34:BA:713:G:N2	34:BA:777:A:C1'	2.51	0.73
34:BA:819:A:C2	34:BA:1529:G:O6	2.42	0.73
34:BA:964:A:H1'	43:BN:55:LYS:NZ	2.04	0.73
34:BA:1320:C:N4	52:BW:52:TYR:O	2.22	0.73
34:BA:1321:C:O5'	34:BA:1321:C:H6	1.71	0.73
34:BA:1414:U:O4	34:BA:1487:G:O6	2.07	0.73
34:BA:1449:C:N4	34:BA:1454:G:H1	1.87	0.73
35:BF:15:VAL:HG23	35:BF:16:HIS:ND1	2.03	0.73
35:BF:144:ARG:O	35:BF:147:LYS:HB3	1.89	0.73
35:BF:171:ALA:HA	35:BF:174:VAL:HB	1.70	0.73
35:BF:213:LEU:HD23	35:BF:213:LEU:C	2.14	0.73
36:BG:71:ALA:HA	36:BG:105:GLU:HG3	1.69	0.73
39:BJ:37:VAL:HA	39:BJ:65:VAL:CG1	2.19	0.73
40:BK:66:VAL:HG12	40:BK:70:LYS:HE2	1.71	0.73
41:BL:5:PRO:HA	41:BL:8:ASP:HB3	1.69	0.73
41:BL:29:SER:N	41:BL:32:LYS:HD2	2.03	0.73
41:BL:36:LEU:HD12	41:BL:48:TYR:CG	2.24	0.73
41:BL:104:ARG:NE	41:BL:138:TRP:CZ3	2.57	0.73
42:BM:74:ILE:O	42:BM:77:ILE:HB	1.88	0.73
44:BO:85:ARG:HG3	44:BO:85:ARG:HH11	1.53	0.73
46:BQ:8:GLU:CD	46:BQ:21:TYR:CB	2.44	0.73
46:BQ:48:LEU:HD22	46:BQ:53:VAL:HG22	1.70	0.73
51:BV:74:ARG:HG3	51:BV:79:LEU:CD2	2.19	0.73
52:BW:11:VAL:HG12	52:BW:15:LEU:CB	2.19	0.73
55:CA:146:ASP:O	55:CA:149:VAL:HG12	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:227:LYS:O	55:CA:267:LEU:HD13	1.88	0.73
55:CA:236:GLN:HA	55:CA:247:ARG:HA	0.88	0.73
55:CA:303:ASP:C	55:CA:346:ARG:NH2	2.47	0.73
55:CA:491:ASN:CG	55:CA:536:ASN:CB	2.62	0.73
1:AA:83:G:H1	1:AA:102:G:C2'	2.03	0.72
1:AA:270(Z):U:H4'	1:AA:270(Z):U:OP1	1.87	0.72
1:AA:351:G:C1'	1:AA:352:G:N7	2.51	0.72
1:AA:465:G:N3	1:AA:683:C:O2'	2.19	0.72
1:AA:514:A:C2	1:AA:515:A:N9	2.57	0.72
1:AA:592:G:H1'	31:Ae:1:MET:O	1.89	0.72
1:AA:603:A:H61	1:AA:624:C:N4	1.86	0.72
1:AA:675:A:H5''	6:AF:67:GLN:CD	2.12	0.72
1:AA:754:C:C2'	1:AA:755:C:H5'	2.19	0.72
1:AA:783:A:H3'	4:AD:227:ASN:HD21	1.53	0.72
1:AA:1025:G:H1'	1:AA:1134:G:C4'	2.19	0.72
1:AA:1029:A:O5'	1:AA:1029:A:H8	1.72	0.72
1:AA:1067:A:H4'	10:AJ:21:PRO:CB	2.18	0.72
1:AA:1080:C:H4'	10:AJ:128:ALA:HB3	0.73	0.72
1:AA:1302:A:H5'	1:AA:1608:A:OP1	1.88	0.72
1:AA:1471:A:C5	1:AA:1521:G:N2	2.57	0.72
1:AA:1513:C:N4	1:AA:1514:U:O4	2.22	0.72
1:AA:1655:A:N6	1:AA:2005:A:H1'	2.04	0.72
1:AA:1664:A:H2'	1:AA:1665:A:H8	1.51	0.72
1:AA:1935:G:N2	1:AA:1962:C:O2'	2.21	0.72
1:AA:2058:A:C2'	1:AA:2059:A:H8	1.98	0.72
1:AA:2092:U:H5	1:AA:2227:A:N6	1.86	0.72
1:AA:2284:C:O5'	29:Ac:9:LEU:HG	1.89	0.72
1:AA:2469:A:C2	1:AA:2470:G:H1'	2.23	0.72
1:AA:2597:G:O4'	4:AD:242:ARG:NE	2.21	0.72
1:AA:2689:U:O2	1:AA:2713:A:P	2.46	0.72
1:AA:2807:G:H22	1:AA:2892:A:N6	1.86	0.72
1:AA:2841:C:C2'	1:AA:2842:G:H8	1.98	0.72
3:AC:59:ARG:HH11	3:AC:164:ARG:HG2	1.52	0.72
5:AE:49:LEU:HD12	5:AE:51:PHE:H	1.53	0.72
6:AF:11:VAL:HG23	6:AF:17:ARG:HH22	1.52	0.72
7:AG:17:PRO:C	7:AG:20:ILE:HB	2.14	0.72
7:AG:166:ASP:O	7:AG:167:GLU:C	2.32	0.72
8:AH:29:PRO:HD3	8:AH:79:VAL:HA	1.71	0.72
9:AI:140:GLY:O	33:Ag:136:UNK:CA	2.37	0.72
11:AK:55:VAL:C	11:AK:57:ALA:N	2.40	0.72
11:AK:86:PRO:HD2	11:AK:89:LYS:HD2	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:87:LEU:O	11:AK:91:LEU:HG	1.89	0.72
12:AL:24:VAL:HG23	12:AL:26:LYS:HG2	1.71	0.72
12:AL:38:VAL:HA	12:AL:59:LYS:O	1.88	0.72
14:AN:77:LYS:HB3	14:AN:78:PRO:HD3	1.71	0.72
18:AR:40:PHE:HB3	19:AS:78:LYS:CD	2.19	0.72
18:AR:50:ARG:NE	19:AS:75:PHE:CE2	2.56	0.72
23:AW:94:GLU:N	23:AW:95:PRO:HD3	1.97	0.72
23:AW:102:LEU:HB2	23:AW:124:ILE:HA	1.71	0.72
30:Ad:43:THR:C	30:Ad:45:ALA:N	2.47	0.72
34:BA:55:A:H2'	34:BA:56:U:O4'	1.87	0.72
34:BA:769:G:H5'	34:BA:1513:A:H4'	1.71	0.72
34:BA:795:C:O4'	34:BA:1506:U:O2	2.07	0.72
34:BA:921:U:O2'	38:BI:19:MET:O	2.07	0.72
34:BA:1066:C:C6	34:BA:1067:A:N7	2.58	0.72
34:BA:1163:C:O2'	34:BA:1164:G:H5'	1.89	0.72
34:BA:1200:C:H3'	34:BA:1201:A:C5'	2.19	0.72
35:BF:54:THR:CG2	35:BF:201:ILE:HD11	2.19	0.72
36:BG:76:VAL:O	36:BG:83:ARG:HG2	1.88	0.72
37:BH:8:VAL:O	37:BH:11:LEU:N	2.21	0.72
37:BH:12:CYS:HB3	37:BH:33:MET:CE	2.18	0.72
37:BH:14:ARG:CD	37:BH:14:ARG:C	2.62	0.72
37:BH:152:SER:O	37:BH:155:LEU:HD22	1.89	0.72
37:BH:180:GLY:O	37:BH:182:LYS:HG2	1.89	0.72
41:BL:92:ARG:HD2	41:BL:92:ARG:N	2.04	0.72
45:BP:84:LEU:HG	45:BP:85:ILE:N	2.04	0.72
52:BW:4:SER:HA	52:BW:5:LEU:HB3	1.70	0.72
55:CA:38:THR:CA	55:CA:39:GLN:HB3	2.15	0.72
55:CA:83:GLY:O	55:CA:85:VAL:N	2.19	0.72
55:CA:211:GLN:CB	55:CA:223:ILE:HG21	2.18	0.72
1:AA:146:G:C3'	1:AA:147:U:H5''	2.19	0.72
1:AA:197:A:H3'	1:AA:198:C:C6	2.24	0.72
1:AA:443:A:N3	1:AA:1201:C:H1'	2.05	0.72
1:AA:663:G:C5'	13:AM:18:ARG:HB3	2.17	0.72
1:AA:724:U:C2'	1:AA:725:G:H5'	2.20	0.72
1:AA:898:C:C2'	1:AA:899:A:H4'	2.16	0.72
1:AA:983:A:C2	1:AA:984:A:C2	2.77	0.72
1:AA:1270:C:C4'	1:AA:1271:G:C5'	2.67	0.72
1:AA:1613:G:C3'	1:AA:1614:A:H5'	2.13	0.72
1:AA:1934:C:C4'	1:AA:1974:C:H4'	2.19	0.72
1:AA:2296:U:C1'	1:AA:2335:A:H61	1.97	0.72
1:AA:2309:A:N7	7:AG:80:PHE:CE1	2.57	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2395:C:C4	1:AA:2396:G:N7	2.57	0.72
1:AA:2670:A:N1	1:AA:2671:A:C5	2.56	0.72
1:AA:2695:C:H2'	1:AA:2696:U:C5	2.24	0.72
3:AC:26:ALA:HB2	3:AC:185:LEU:HB2	1.72	0.72
4:AD:84:TYR:HB3	4:AD:91:ARG:HG3	1.71	0.72
4:AD:263:ARG:O	4:AD:266:SER:HB3	1.88	0.72
6:AF:122:LYS:HZ3	6:AF:122:LYS:CA	2.01	0.72
6:AF:176:LEU:HD21	6:AF:180:GLY:O	1.87	0.72
7:AG:41:GLN:OE1	7:AG:155:MET:HE3	1.90	0.72
10:AJ:33:ASN:HB3	10:AJ:63:ARG:CA	2.19	0.72
10:AJ:74:ALA:HB1	10:AJ:126:MET:HE2	1.70	0.72
10:AJ:104:VAL:O	10:AJ:127:ILE:HD11	1.89	0.72
12:AL:9:GLU:CB	12:AL:82:ASN:HB3	2.17	0.72
12:AL:39:ILE:C	12:AL:59:LYS:HZ1	1.95	0.72
12:AL:39:ILE:O	12:AL:59:LYS:NZ	2.21	0.72
14:AN:6:ARG:NH2	14:AN:8:LYS:HG3	2.04	0.72
14:AN:29:PHE:O	14:AN:29:PHE:HD1	1.72	0.72
17:AQ:33:LYS:HD3	17:AQ:47:GLY:HA3	1.70	0.72
17:AQ:64:ARG:NE	17:AQ:77:PRO:HB2	2.03	0.72
19:AS:16:PRO:HA	19:AS:98:GLU:HB2	1.71	0.72
22:AV:38:ILE:HG23	22:AV:60:PHE:HZ	1.54	0.72
23:AW:24:LEU:CD1	23:AW:83:PRO:HD2	2.19	0.72
26:AZ:5:LYS:HZ2	26:AZ:59:VAL:HG22	1.53	0.72
26:AZ:11:SER:H	26:AZ:12:PRO:HD3	1.53	0.72
27:Aa:41:PRO:C	27:Aa:58:ARG:NH1	2.47	0.72
30:Ad:34:ARG:HB3	30:Ad:34:ARG:NH1	2.01	0.72
34:BA:510:A:N3	34:BA:543:C:H1'	2.03	0.72
34:BA:563:A:H1'	34:BA:566:G:O2'	1.89	0.72
34:BA:936:C:C2'	34:BA:937:A:H5'	2.19	0.72
34:BA:1126:U:H2'	34:BA:1127:G:H8	1.54	0.72
34:BA:1438:G:O2'	34:BA:1439:C:H5'	1.89	0.72
35:BF:23:ARG:NH1	35:BF:24:TRP:N	2.37	0.72
35:BF:141:GLU:CD	35:BF:142:LEU:N	2.47	0.72
36:BG:47:LEU:CD1	36:BG:83:ARG:HH21	2.01	0.72
37:BH:61:LYS:CG	37:BH:203:VAL:HG13	2.19	0.72
42:BM:96:LEU:O	42:BM:100:GLY:HA3	1.88	0.72
42:BM:111:ARG:O	42:BM:119:ALA:HB2	1.90	0.72
43:BN:79:ARG:HH22	43:BN:82:ILE:CD1	2.02	0.72
46:BQ:96:LEU:HB2	46:BQ:97:PRO:HD3	1.70	0.72
55:CA:23:ASP:O	55:CA:25:LEU:N	2.21	0.72
55:CA:102:PHE:CA	55:CA:135:ALA:HB2	2.19	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:158:LEU:HA	55:CA:159:ASP:CB	2.10	0.72
55:CA:206:GLN:HB3	55:CA:227:LYS:C	2.13	0.72
1:AA:172:C:C4	1:AA:173:G:N7	2.56	0.72
1:AA:443:A:H61	6:AF:41:LEU:CD1	2.02	0.72
1:AA:598:G:O4'	13:AM:13:ASN:ND2	2.22	0.72
1:AA:685:A:C1'	1:AA:688:U:O4	2.37	0.72
1:AA:696:G:O2'	1:AA:697:C:H5'	1.89	0.72
1:AA:716:A:C2'	1:AA:717:G:H5'	2.19	0.72
1:AA:901:A:C2'	1:AA:902:C:H5'	2.18	0.72
1:AA:1079:C:O2	10:AJ:132:ARG:HB2	1.32	0.72
1:AA:1314:C:C2	1:AA:1315:C:C5	2.78	0.72
1:AA:1365:A:N7	1:AA:1366:A:N7	2.37	0.72
1:AA:1539:G:N7	1:AA:1540:G:N7	2.37	0.72
1:AA:1565:C:N3	1:AA:1567:A:C1'	2.53	0.72
1:AA:1620:G:O4'	30:Ad:1:MET:N	2.22	0.72
1:AA:1702:G:C6	1:AA:1703:G:N7	2.57	0.72
1:AA:1832:C:H2'	1:AA:1833:U:H5'	1.71	0.72
1:AA:1955:U:H2'	1:AA:1956:U:OP1	1.88	0.72
1:AA:2162:G:C2'	1:AA:2163:C:H5'	2.19	0.72
1:AA:2524:G:H5'	1:AA:2764:A:HO2'	1.51	0.72
1:AA:2586:C:H2'	1:AA:2587:A:C8	2.23	0.72
1:AA:2799:A:H1'	1:AA:2802:G:O6	1.88	0.72
2:AB:25:A:H2'	2:AB:26:A:C8	2.23	0.72
5:AE:7:VAL:HG13	5:AE:194:GLY:O	1.88	0.72
6:AF:45:ARG:HG2	6:AF:97:TYR:CD2	2.25	0.72
6:AF:109:GLY:O	6:AF:110:LEU:C	2.31	0.72
6:AF:110:LEU:O	6:AF:114:VAL:HG23	1.88	0.72
7:AG:113:ARG:HD3	7:AG:139:LEU:HD21	1.70	0.72
12:AL:75:SER:OG	17:AQ:77:PRO:O	2.04	0.72
13:AM:122:PRO:CB	13:AM:138:LEU:N	2.51	0.72
23:AW:78:LYS:NZ	23:AW:78:LYS:HB3	2.04	0.72
27:Aa:29:PRO:HG2	27:Aa:31:ILE:CG2	2.19	0.72
30:Ad:25:PRO:HA	30:Ad:28:ARG:NE	2.04	0.72
31:Ae:3:LYS:HE2	31:Ae:59:LYS:CE	2.19	0.72
34:BA:703:G:O2'	34:BA:704:A:OP2	2.07	0.72
34:BA:777:A:H2'	34:BA:778:G:C8	2.23	0.72
34:BA:781:A:H4'	34:BA:1522:U:HO2'	1.52	0.72
34:BA:923:A:OP1	38:BI:21:ALA:HB2	1.88	0.72
34:BA:1240:U:C2'	40:BK:32:ARG:HH21	2.00	0.72
34:BA:1442:G:H21	34:BA:1446:A:H5''	1.53	0.72
34:BA:1449:C:H2'	34:BA:1450:U:O5'	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:140:ARG:HA	36:BG:143:GLU:HB2	1.71	0.72
36:BG:182:ILE:HG23	36:BG:203:PHE:HA	1.71	0.72
38:BI:102:ALA:HB1	38:BI:106:PRO:HB2	1.69	0.72
39:BJ:1:MET:CE	39:BJ:68:PRO:HG3	2.20	0.72
39:BJ:14:LEU:CD1	39:BJ:18:GLN:HB3	2.18	0.72
42:BM:49:PRO:HD3	42:BM:78:LYS:HZ3	1.52	0.72
44:BO:18:ARG:HD3	44:BO:34:ASP:O	1.87	0.72
45:BP:93:LEU:O	45:BP:96:VAL:HG23	1.88	0.72
53:BX:87:LYS:HE3	53:BX:87:LYS:CA	2.19	0.72
1:AA:83:G:O6	1:AA:102:G:N3	2.22	0.72
1:AA:449:A:O2'	1:AA:450:G:H5'	1.89	0.72
1:AA:660:G:H5''	6:AF:99:TYR:CZ	2.24	0.72
1:AA:826:U:OP1	1:AA:2428:G:H3'	1.88	0.72
1:AA:880:G:C5	1:AA:897:C:O2	2.42	0.72
1:AA:1087:G:H21	1:AA:1103:A:H2'	1.54	0.72
1:AA:1363:C:O2'	1:AA:1809:A:C8	2.41	0.72
1:AA:1566:A:N1	4:AD:215:LEU:HD13	2.03	0.72
1:AA:1773:A:H2	1:AA:1977:A:H61	1.37	0.72
1:AA:1864:U:H2'	1:AA:1869:G:C5'	2.18	0.72
1:AA:1886:C:H2'	1:AA:1887:C:C6	2.24	0.72
1:AA:2114:A:H2'	1:AA:2115:G:C5'	2.19	0.72
1:AA:2176:A:H4'	3:AC:221:SER:HB2	1.71	0.72
1:AA:2283:C:C2	1:AA:2389:G:N2	2.57	0.72
1:AA:2306:C:C2	7:AG:46:ALA:HB2	2.24	0.72
1:AA:2646:C:O2'	1:AA:2647:U:H5'	1.89	0.72
1:AA:2720:U:H2'	1:AA:2720:U:O2	1.88	0.72
1:AA:2721:A:H2'	1:AA:2722:G:H8	1.55	0.72
1:AA:2740:A:H2'	1:AA:2741:A:H8	1.53	0.72
1:AA:2745:C:H1'	8:AH:143:GLN:HG2	1.71	0.72
1:AA:2746:U:C4	1:AA:2756:U:O4	2.42	0.72
4:AD:91:ARG:NH1	4:AD:198:ASN:HB2	2.03	0.72
4:AD:231:HIS:O	4:AD:232:PRO:C	2.29	0.72
6:AF:155:LEU:HA	6:AF:174:VAL:HG23	1.70	0.72
10:AJ:11:GLN:HA	10:AJ:56:GLU:CB	2.17	0.72
11:AK:115:ARG:HA	11:AK:118:LYS:HD2	1.71	0.72
12:AL:70:LYS:HD3	12:AL:107:ARG:NH1	2.04	0.72
15:AO:105:ARG:CZ	15:AO:105:ARG:CA	2.65	0.72
18:AR:58:ARG:O	18:AR:62:ILE:HG13	1.89	0.72
27:Aa:10:VAL:H	27:Aa:11:PRO:HD3	1.52	0.72
33:Ag:290:UNK:CA	33:Ag:343:UNK:CB	2.68	0.72
34:BA:195:A:H4'	53:BX:68:LYS:HZ3	1.55	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:948:C:P	46:BQ:109:THR:OG1	2.46	0.72
34:BA:1005:A:H2'	34:BA:1006:C:H5'	1.70	0.72
34:BA:1016:A:H2'	34:BA:1017:G:O4'	1.89	0.72
34:BA:1162:C:N3	34:BA:1175:G:C2	2.57	0.72
34:BA:1360:A:H2'	34:BA:1360:A:N3	2.01	0.72
34:BA:1417:G:N2	34:BA:1482:G:H2'	2.05	0.72
35:BF:14:GLY:O	35:BF:15:VAL:HG13	1.88	0.72
37:BH:61:LYS:HG3	37:BH:207:TYR:CE1	2.23	0.72
38:BI:94:ALA:HB3	38:BI:117:ASP:C	2.15	0.72
40:BK:46:ALA:CA	40:BK:49:ILE:HD13	2.16	0.72
44:BO:16:SER:O	44:BO:35:PRO:HG3	1.90	0.72
46:BQ:37:THR:CB	46:BQ:56:LEU:CB	2.68	0.72
50:BU:28:PRO:HB2	50:BU:33:GLY:O	1.88	0.72
50:BU:34:LYS:HE2	50:BU:35:VAL:O	1.89	0.72
52:BW:62:ILE:HD11	52:BW:67:VAL:HG13	1.70	0.72
53:BX:44:ALA:HA	53:BX:92:LEU:HD21	1.72	0.72
53:BX:49:ALA:HB3	53:BX:99:LEU:CD1	2.19	0.72
55:CA:13:HIS:HB3	55:CA:109:THR:N	2.04	0.72
1:AA:6:A:N1	1:AA:2897:U:C4	2.55	0.72
1:AA:6:A:C5	1:AA:2898:U:C2	2.77	0.72
1:AA:17:G:H4'	18:AR:25:TRP:CH2	2.25	0.72
1:AA:352:G:N2	1:AA:353:G:H1'	2.05	0.72
1:AA:617:G:C8	1:AA:618:G:N7	2.58	0.72
1:AA:647:G:H4'	1:AA:2352:A:OP1	1.89	0.72
1:AA:997:G:OP1	18:AR:92:ARG:HD2	1.90	0.72
1:AA:1155:A:C2	1:AA:1157:G:H1'	2.25	0.72
1:AA:1263:U:H5	1:AA:1265:A:N6	1.88	0.72
1:AA:1803:A:H2'	1:AA:1804:C:C6	2.24	0.72
1:AA:1839:G:H2'	1:AA:1839:G:N3	2.03	0.72
1:AA:1924:C:H2'	1:AA:1925:C:C6	2.23	0.72
1:AA:2001:A:H2'	1:AA:2002:G:C8	2.24	0.72
1:AA:2097:C:O2'	1:AA:2098:U:H5'	1.88	0.72
1:AA:2533:A:H1'	1:AA:2664:G:C4'	2.20	0.72
2:AB:54:G:O2'	2:AB:55:U:H5'	1.89	0.72
3:AC:34:THR:HG22	3:AC:34:THR:O	1.88	0.72
4:AD:60:ARG:HA	4:AD:62:TYR:OH	1.88	0.72
4:AD:136:ILE:HB	4:AD:168:ARG:HH21	1.54	0.72
6:AF:132:VAL:HG13	6:AF:138:GLU:OE1	1.89	0.72
7:AG:88:ILE:HG22	7:AG:88:ILE:O	1.88	0.72
8:AH:149:ARG:HA	8:AH:162:ILE:HD13	1.72	0.72
11:AK:6:PRO:HA	11:AK:41:ASP:HB3	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:76:ALA:HA	17:AQ:77:PRO:CG	2.18	0.72
12:AL:108:GLU:O	12:AL:109:LYS:HB2	1.88	0.72
12:AL:112:MET:HA	12:AL:115:VAL:CG2	2.18	0.72
18:AR:102:GLU:CB	18:AR:105:VAL:HB	2.20	0.72
20:AT:33:ARG:HD3	20:AT:37:ARG:HD3	1.69	0.72
23:AW:9:TYR:HB3	23:AW:14:LYS:NZ	2.04	0.72
23:AW:105:VAL:N	23:AW:140:ASP:OD1	2.22	0.72
34:BA:342:C:H2'	34:BA:343:U:H6	1.52	0.72
34:BA:411:A:C4	34:BA:413:G:H1'	2.25	0.72
34:BA:1115:C:H1'	34:BA:1186:G:C2	2.23	0.72
34:BA:1290:G:H4'	40:BK:37:ASN:ND2	2.03	0.72
34:BA:1309:G:H21	34:BA:1328:C:H2'	1.55	0.72
36:BG:31:HIS:O	36:BG:34:LEU:HB3	1.89	0.72
37:BH:70:ILE:HD12	37:BH:100:ARG:NH2	2.04	0.72
37:BH:93:PHE:O	37:BH:94:LEU:C	2.29	0.72
38:BI:28:PHE:O	38:BI:47:LYS:HA	1.89	0.72
38:BI:35:GLY:HA3	38:BI:41:VAL:CG1	2.20	0.72
38:BI:52:PRO:O	38:BI:55:VAL:CB	2.37	0.72
40:BK:71:PRO:HG2	40:BK:96:GLN:HG3	1.72	0.72
40:BK:113:GLU:CG	40:BK:118:VAL:HB	2.17	0.72
40:BK:132:GLY:O	40:BK:136:LYS:CB	2.38	0.72
41:BL:11:THR:O	41:BL:12:ARG:C	2.32	0.72
41:BL:27:PRO:O	41:BL:32:LYS:HD3	1.90	0.72
42:BM:6:GLY:HA2	42:BM:83:ARG:HB3	1.71	0.72
43:BN:34:VAL:HG12	43:BN:35:SER:N	1.99	0.72
44:BO:57:THR:CG2	44:BO:60:ALA:H	1.97	0.72
45:BP:24:VAL:CG2	45:BP:97:ARG:HG2	2.17	0.72
46:BQ:16:ASP:HB2	46:BQ:30:ALA:HB1	1.71	0.72
51:BV:53:ARG:HA	51:BV:63:GLN:HE21	1.53	0.72
53:BX:17:ARG:O	53:BX:20:LEU:HB2	1.89	0.72
55:CA:38:THR:HA	55:CA:39:GLN:CB	2.06	0.72
55:CA:407:VAL:HA	55:CA:408:GLU:O	1.89	0.72
1:AA:245:G:C4	1:AA:246:C:H5	2.07	0.72
1:AA:271(B):G:H5''	1:AA:271(C):U:C5'	2.19	0.72
1:AA:308:G:H22	1:AA:329:G:H2'	1.55	0.72
1:AA:567:A:N1	1:AA:568:U:O2	2.23	0.72
1:AA:1043:C:C1'	1:AA:1112:G:N2	2.41	0.72
1:AA:1059:G:H21	10:AJ:130:SER:CB	1.90	0.72
1:AA:1655:A:H2'	1:AA:1656:C:O4'	1.89	0.72
1:AA:1817:G:C2'	1:AA:1818:U:H5'	2.19	0.72
1:AA:2227:A:H1'	4:AD:262:ARG:HD2	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2463:C:C2'	1:AA:2464:C:H5'	2.20	0.72
1:AA:2597:G:C1'	4:AD:242:ARG:NH2	2.52	0.72
1:AA:2882:A:H2'	1:AA:2883:A:O5'	1.89	0.72
2:AB:112:G:H5'	2:AB:113:C:OP2	1.89	0.72
4:AD:5:LYS:CB	4:AD:29:PRO:HD3	2.19	0.72
6:AF:74:ARG:CZ	6:AF:75:HIS:H	2.03	0.72
7:AG:68:PRO:HG3	7:AG:72:ARG:HH22	1.55	0.72
8:AH:8:PRO:CD	8:AH:69:ARG:HH21	2.02	0.72
8:AH:94:TYR:HE1	8:AH:96:ALA:HB2	1.55	0.72
12:AL:94:ARG:HG3	12:AL:96:THR:H	1.52	0.72
13:AM:51:PHE:O	13:AM:55:ARG:HG3	1.89	0.72
14:AN:59:ARG:NH2	23:AW:177:PRO:HB3	2.02	0.72
16:AP:69:VAL:O	16:AP:72:ALA:HB3	1.88	0.72
18:AR:98:LEU:HA	18:AR:101:ARG:HG2	1.71	0.72
24:AX:19:LYS:CG	24:AX:20:ARG:H	2.03	0.72
27:Aa:23:GLU:HA	27:Aa:27:THR:O	1.90	0.72
28:Ab:10:LYS:O	28:Ab:12:SER:N	2.23	0.72
28:Ab:51:TYR:CD1	28:Ab:51:TYR:C	2.67	0.72
29:Ac:16:CYS:SG	29:Ac:19:ARG:NH1	2.61	0.72
29:Ac:25:LYS:CE	31:Ae:35:GLN:HB3	2.18	0.72
31:Ae:5:LYS:O	31:Ae:7:HIS:N	2.22	0.72
32:Af:17:ILE:HG13	32:Af:26:ILE:HB	1.72	0.72
34:BA:1142:G:O2'	34:BA:1143:G:H5'	1.90	0.72
34:BA:1167:A:C2	34:BA:1169:A:C4	2.78	0.72
34:BA:1172:C:O2'	34:BA:1173:G:H5'	1.89	0.72
37:BH:52:SER:C	37:BH:54:TYR:N	2.40	0.72
38:BI:7:GLU:HG2	38:BI:112:LEU:HD21	1.71	0.72
40:BK:103:TRP:HH2	40:BK:138:LYS:HA	1.49	0.72
41:BL:36:LEU:HD12	41:BL:48:TYR:CB	2.19	0.72
41:BL:40:ALA:O	41:BL:43:GLY:N	2.22	0.72
41:BL:70:GLN:HE22	41:BL:72:PRO:HD2	1.54	0.72
44:BO:51:LYS:HD3	44:BO:52:GLY:H	1.55	0.72
51:BV:76:LEU:HD22	51:BV:76:LEU:N	2.05	0.72
52:BW:19:VAL:HG22	52:BW:43:GLU:OE1	1.89	0.72
52:BW:38:SER:O	52:BW:70:LYS:HA	1.90	0.72
55:CA:25:LEU:O	55:CA:27:GLN:HG3	1.89	0.72
55:CA:89:MET:HG2	55:CA:121:LEU:HD11	1.70	0.72
55:CA:231:VAL:HG12	55:CA:232:LYS:N	2.04	0.72
55:CA:258:LEU:HB3	55:CA:260:LEU:HD11	1.71	0.72
1:AA:131:G:H2'	1:AA:132:G:H8	1.55	0.72
1:AA:273(C):C:H2'	1:AA:273(D):C:C6	2.24	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:411:G:O4'	1:AA:2407:G:OP1	2.07	0.72
1:AA:623:G:C8	13:AM:105:LEU:HB2	2.24	0.72
1:AA:627:A:H1'	1:AA:637:A:C6	2.23	0.72
1:AA:675:A:H1'	1:AA:2443:C:O2'	1.90	0.72
1:AA:688:U:O2'	1:AA:689:A:H5'	1.90	0.72
1:AA:792:G:N2	1:AA:2072:G:O2'	2.22	0.72
1:AA:852:G:O2'	1:AA:853:G:H5'	1.90	0.72
1:AA:901:A:C4	1:AA:902:C:C6	2.78	0.72
1:AA:1046:A:H61	9:AI:9:LEU:N	1.78	0.72
1:AA:1286:A:N3	1:AA:1329:U:C4	2.58	0.72
1:AA:1546:C:H4'	1:AA:1547:C:H5	1.55	0.72
1:AA:1568:G:H5''	4:AD:60:ARG:O	1.88	0.72
1:AA:1670:C:OP2	1:AA:1671:U:C5	2.43	0.72
1:AA:2311:A:C3'	1:AA:2312:U:H5	2.03	0.72
1:AA:2450:A:OP1	1:AA:2497:A:N7	2.22	0.72
1:AA:2569:G:C2	1:AA:2570:G:N7	2.57	0.72
1:AA:2631:G:C5	1:AA:2894:G:N7	2.58	0.72
1:AA:2631:G:N2	5:AE:61:ARG:HH22	1.86	0.72
3:AC:116:THR:O	3:AC:120:MET:HG2	1.89	0.72
4:AD:44:ASN:HB2	4:AD:217:ARG:NH2	1.99	0.72
4:AD:87:ASN:O	4:AD:88:ARG:HB2	1.87	0.72
5:AE:77:ILE:O	5:AE:78:LEU:HD13	1.88	0.72
5:AE:93:VAL:HG13	5:AE:180:ASN:HD21	1.53	0.72
5:AE:147:PRO:HG2	5:AE:149:ARG:HD2	1.72	0.72
7:AG:29:TRP:C	7:AG:31:VAL:H	1.98	0.72
11:AK:122:VAL:HG23	11:AK:123:TYR:N	2.04	0.72
11:AK:127:ASP:OD1	11:AK:128:HIS:N	2.23	0.72
12:AL:8:LEU:HD11	12:AL:82:ASN:HA	1.70	0.72
14:AN:127:ILE:HD13	14:AN:129:THR:CG2	2.19	0.72
15:AO:97:VAL:HA	15:AO:114:VAL:CG2	2.20	0.72
17:AQ:17:THR:CB	17:AQ:20:PRO:HD3	2.17	0.72
17:AQ:39:ARG:HH11	34:BA:345:C:C3'	1.99	0.72
17:AQ:54:ARG:C	17:AQ:55:ASN:CG	2.53	0.72
19:AS:69:LYS:HG2	19:AS:70:ILE:H	1.55	0.72
22:AV:46:LYS:CG	22:AV:58:GLY:H	2.03	0.72
23:AW:100:VAL:O	23:AW:124:ILE:HG23	1.90	0.72
23:AW:103:ARG:HA	23:AW:103:ARG:NE	2.05	0.72
29:Ac:31:PRO:C	29:Ac:32:ASN:HD22	1.97	0.72
29:Ac:50:ARG:NH2	29:Ac:52:VAL:HG21	2.05	0.72
31:Ae:25:MET:HE3	31:Ae:44:LYS:CE	2.20	0.72
34:BA:309:G:O2'	34:BA:310:G:C5'	2.37	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:358:U:C1'	55:CA:217:TYR:CD1	2.71	0.72
34:BA:576:G:N7	34:BA:881:G:C1'	2.52	0.72
34:BA:671:G:N3	34:BA:672:U:H1'	2.04	0.72
34:BA:890:G:H2'	34:BA:906:G:O6	1.90	0.72
34:BA:953:G:H2'	34:BA:954:G:H8	1.53	0.72
34:BA:1129:C:OP1	42:BM:16:ARG:NH2	2.22	0.72
34:BA:1220:G:N2	52:BW:55:LYS:CG	2.53	0.72
34:BA:1246:C:O2'	34:BA:1247:U:H5'	1.90	0.72
34:BA:1253:G:H21	34:BA:1254:C:H1'	1.54	0.72
34:BA:1308:U:O3'	46:BQ:92:HIS:CD2	2.41	0.72
34:BA:1318:A:H1'	52:BW:35:SER:HG	0.90	0.72
34:BA:1345:U:C2	34:BA:1377:A:N6	2.57	0.72
34:BA:1437:C:O2'	34:BA:1438:G:H5'	1.89	0.72
35:BF:16:HIS:CA	35:BF:204:ASN:HB2	2.20	0.72
35:BF:75:LYS:HA	35:BF:75:LYS:NZ	2.03	0.72
35:BF:116:GLU:HG2	35:BF:117:GLU:N	2.04	0.72
36:BG:38:ARG:CB	36:BG:94:LEU:HD21	2.19	0.72
36:BG:120:VAL:CG1	36:BG:133:ALA:HB1	2.19	0.72
38:BI:16:THR:O	38:BI:26:PHE:HB2	1.90	0.72
40:BK:47:CYS:HA	40:BK:50:ILE:CD1	2.19	0.72
41:BL:11:THR:HA	41:BL:14:ARG:CZ	2.20	0.72
46:BQ:4:ILE:HD13	46:BQ:57:ARG:CG	2.00	0.72
46:BQ:16:ASP:OD2	46:BQ:34:LEU:HD11	1.90	0.72
47:BR:26:ARG:HE	47:BR:43:CYS:CA	2.02	0.72
49:BT:41:PRO:O	49:BT:43:LYS:HD2	1.88	0.72
50:BU:43:LEU:HD11	50:BU:69:LYS:HG3	1.72	0.72
52:BW:3:ARG:NH1	52:BW:45:VAL:HG13	2.04	0.72
52:BW:33:THR:HG21	52:BW:49:ILE:HD12	1.69	0.72
55:CA:54:ILE:CD1	55:CA:211:GLN:NE2	2.52	0.72
55:CA:79:ALA:HB1	55:CA:80:ASP:C	2.14	0.72
55:CA:205:PHE:HD1	55:CA:229:GLY:C	1.97	0.72
1:AA:33:U:O2'	1:AA:34:C:H5	1.73	0.72
1:AA:533:G:H2'	1:AA:534:U:O4'	1.89	0.72
1:AA:691:C:O2'	4:AD:45:ASN:ND2	2.22	0.72
1:AA:729:G:C3'	1:AA:730:C:H4'	2.19	0.72
1:AA:1198:U:H2'	1:AA:1199:U:C6	2.24	0.72
1:AA:1313:U:H2'	1:AA:1314:C:H6	1.55	0.72
1:AA:1660:C:H42	1:AA:2001:A:N6	1.87	0.72
1:AA:1670:C:H3'	1:AA:1671:U:H6	1.53	0.72
1:AA:1703:G:H21	1:AA:1704:G:H1'	1.55	0.72
1:AA:1718:G:C8	1:AA:1725:G:N7	2.58	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1992:G:C1'	1:AA:1993:U:O4	2.38	0.72
1:AA:2286:A:H1'	29:Ac:37:ARG:HH21	1.55	0.72
1:AA:2360:A:H2'	1:AA:2361:A:O4'	1.89	0.72
1:AA:2423:U:H1'	1:AA:2425:A:C4	2.25	0.72
1:AA:2476:A:C8	1:AA:2477:C:C5	2.78	0.72
1:AA:2742:C:H5''	32:Af:35:ARG:CZ	2.19	0.72
2:AB:112:G:H2'	2:AB:112:G:N3	2.05	0.72
4:AD:8:PRO:HD2	4:AD:26:LYS:CA	2.19	0.72
4:AD:201:HIS:CD2	4:AD:202:LYS:HE2	2.24	0.72
7:AG:6:ALA:HA	7:AG:9:ARG:CZ	2.19	0.72
8:AH:126:PRO:CG	8:AH:132:ARG:HH12	2.03	0.72
11:AK:26:LEU:O	11:AK:26:LEU:HD12	1.90	0.72
11:AK:123:TYR:CD2	11:AK:129:PRO:HB2	2.24	0.72
12:AL:8:LEU:CD1	12:AL:82:ASN:HA	2.20	0.72
12:AL:101:PRO:HD3	12:AL:119:PRO:O	1.90	0.72
15:AO:44:LEU:HD11	15:AO:48:VAL:HG21	1.72	0.72
16:AP:6:ALA:HA	16:AP:9:ARG:NH1	2.04	0.72
17:AQ:45:PHE:CZ	17:AQ:87:ASP:HB2	2.25	0.72
17:AQ:57:PHE:C	17:AQ:58:ASN:HD22	1.98	0.72
18:AR:27:LEU:C	18:AR:29:SER:H	1.96	0.72
18:AR:50:ARG:HD3	18:AR:50:ARG:H	1.55	0.72
21:AU:9:LEU:HD12	21:AU:9:LEU:N	2.03	0.72
21:AU:16:LYS:HE2	21:AU:16:LYS:N	2.05	0.72
23:AW:42:VAL:HB	23:AW:43:GLU:CD	2.14	0.72
33:Ag:8:UNK:CA	33:Ag:147:UNK:CB	2.67	0.72
34:BA:122:G:N2	34:BA:123:C:H1'	2.04	0.72
34:BA:122:G:O2'	34:BA:123:C:H5'	1.89	0.72
34:BA:259:G:H2'	34:BA:260:G:H8	1.53	0.72
34:BA:414:A:H2'	34:BA:415:A:C8	2.24	0.72
34:BA:484:G:H5'	34:BA:486:U:H1'	1.70	0.72
36:BG:29:TYR:O	36:BG:29:TYR:HD2	1.72	0.72
36:BG:159:GLY:H	36:BG:193:TYR:HE1	1.35	0.72
37:BH:58:LEU:HD13	37:BH:59:ARG:NH1	2.04	0.72
37:BH:106:TYR:HD2	37:BH:114:ARG:HG2	1.55	0.72
37:BH:159:ARG:O	37:BH:160:GLN:C	2.30	0.72
37:BH:169:LYS:HG2	37:BH:176:LEU:HD21	1.72	0.72
40:BK:76:ARG:CB	40:BK:156:TRP:HE1	1.93	0.72
40:BK:122:HIS:O	40:BK:125:MET:CG	2.38	0.72
40:BK:155:ARG:HA	40:BK:155:ARG:NE	2.02	0.72
41:BL:29:SER:HB2	41:BL:32:LYS:NZ	2.05	0.72
41:BL:88:LYS:HZ2	41:BL:88:LYS:N	1.87	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:39:PRO:O	43:BN:40:LEU:HB2	1.90	0.72
45:BP:100:ILE:C	45:BP:101:VAL:HG22	2.14	0.72
48:BS:54:ARG:HA	48:BS:57:LEU:CD2	2.17	0.72
49:BT:33:ILE:O	49:BT:34:GLU:HB2	1.89	0.72
50:BU:63:ARG:HG2	50:BU:64:PRO:CD	2.20	0.72
55:CA:114:LYS:HA	55:CA:117:PHE:CD2	2.17	0.72
55:CA:313:VAL:HG12	55:CA:314:ASN:N	2.03	0.72
55:CA:325:PHE:HD2	55:CA:330:GLN:CG	2.03	0.72
55:CA:390:ARG:O	55:CA:397:GLN:HB2	1.90	0.72
55:CA:505:GLN:HB3	55:CA:510:LEU:HD12	1.69	0.72
1:AA:531:C:H3'	1:AA:532:A:O4'	1.88	0.72
1:AA:672:C:H2'	1:AA:673:C:H6	1.53	0.72
1:AA:718:A:H3'	1:AA:719:C:C6	2.24	0.72
1:AA:783:A:O2'	1:AA:784:A:OP1	2.08	0.72
1:AA:792:G:H21	1:AA:2072:G:H1'	1.53	0.72
1:AA:1053:C:H42	1:AA:1107:G:H1	1.35	0.72
1:AA:1206:G:C8	1:AA:1206:G:C3'	2.70	0.72
1:AA:1368:G:H2'	1:AA:1369:G:H8	1.52	0.72
1:AA:1382:G:H2'	1:AA:1383:C:C6	2.25	0.72
1:AA:1566:A:O2'	1:AA:1567:A:OP1	2.07	0.72
1:AA:1661:G:H2'	1:AA:1662:C:H6	1.55	0.72
1:AA:1712:C:H2'	1:AA:1716:U:H6	1.53	0.72
1:AA:1793:C:H42	1:AA:1825:A:H61	1.33	0.72
1:AA:1797:C:C2	1:AA:1798:U:C5	2.76	0.72
1:AA:2110:G:H2'	1:AA:2120:G:C5'	2.19	0.72
1:AA:2666:C:H2'	1:AA:2667:C:C5'	2.19	0.72
1:AA:2670:A:N3	1:AA:2671:A:N7	2.36	0.72
1:AA:2670:A:H5'	5:AE:206:LYS:HZ1	1.52	0.72
1:AA:2815:C:C4'	28:Ab:42:PRO:HG3	2.19	0.72
2:AB:12:C:C5	24:AX:74:ARG:HB2	2.24	0.72
3:AC:171:ILE:HD13	3:AC:192:PHE:HZ	1.53	0.72
4:AD:46:GLN:C	4:AD:48:ARG:N	2.41	0.72
4:AD:129:ASN:O	4:AD:193:VAL:CB	2.37	0.72
4:AD:186:HIS:HB2	4:AD:188:GLU:OE1	1.90	0.72
5:AE:17:ASP:OD1	5:AE:17:ASP:N	2.23	0.72
6:AF:36:VAL:HG11	6:AF:183:VAL:CG1	2.19	0.72
6:AF:74:ARG:NH2	6:AF:76:GLY:N	2.38	0.72
6:AF:80:ALA:N	6:AF:83:PHE:HE1	1.86	0.72
6:AF:176:LEU:CG	6:AF:178:PRO:HD2	2.17	0.72
7:AG:18:GLU:CD	7:AG:22:ARG:HH21	1.97	0.72
10:AJ:10:LEU:HD13	10:AJ:27:LEU:HD11	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:107:LEU:HB3	11:AK:117:PHE:CZ	2.25	0.72
13:AM:23:PRO:HG2	13:AM:29:LYS:N	2.05	0.72
13:AM:84:ASN:O	13:AM:85:LEU:HG	1.90	0.72
13:AM:99:LEU:HD22	13:AM:101:VAL:HG13	1.72	0.72
13:AM:124:LYS:HA	13:AM:143:GLY:HA3	1.72	0.72
15:AO:83:ILE:HG23	15:AO:86:ARG:NE	2.04	0.72
16:AP:52:SER:HB3	16:AP:69:VAL:HG13	1.70	0.72
17:AQ:29:ARG:C	17:AQ:30:VAL:HG12	2.14	0.72
17:AQ:64:ARG:CZ	17:AQ:77:PRO:HB2	2.19	0.72
17:AQ:65:LYS:HA	17:AQ:76:PHE:O	1.90	0.72
19:AS:15:GLU:CD	19:AS:16:PRO:HD2	2.14	0.72
19:AS:35:LEU:O	19:AS:61:VAL:HG13	1.90	0.72
19:AS:69:LYS:HE2	19:AS:70:ILE:CD1	2.19	0.72
22:AV:86:ARG:O	22:AV:91:GLU:HG2	1.90	0.72
23:AW:57:ILE:CG2	23:AW:58:VAL:H	2.00	0.72
23:AW:95:PRO:HD2	23:AW:131:ARG:HG2	1.71	0.72
25:AY:5:LEU:O	25:AY:9:ARG:HG2	1.90	0.72
29:Ac:32:ASN:CG	29:Ac:33:LYS:N	2.39	0.72
34:BA:299:G:H2'	34:BA:300:A:C8	2.24	0.72
34:BA:410:G:C1'	34:BA:432:A:H61	2.03	0.72
34:BA:582:U:C5'	48:BS:64:ARG:HH21	2.02	0.72
34:BA:1084:G:H2'	34:BA:1085:U:C6	2.25	0.72
34:BA:1455:G:O2'	34:BA:1459:C:H5'	1.89	0.72
35:BF:220:ASP:O	35:BF:224:GLN:HG3	1.89	0.72
40:BK:106:GLN:O	40:BK:109:ASN:HB2	1.89	0.72
43:BN:11:PHE:CE1	47:BR:55:GLY:HA3	2.24	0.72
44:BO:42:TRP:HE3	44:BO:43:SER:CA	2.03	0.72
44:BO:97:ALA:O	44:BO:100:ALA:HB3	1.89	0.72
45:BP:36:VAL:HG23	45:BP:81:SER:C	2.15	0.72
45:BP:101:VAL:HG23	45:BP:104:VAL:HG21	1.72	0.72
46:BQ:14:ARG:HG3	46:BQ:16:ASP:OD2	1.90	0.72
46:BQ:20:THR:OG1	46:BQ:30:ALA:HB2	1.90	0.72
48:BS:15:PHE:CD1	48:BS:30:ALA:HB2	2.25	0.72
50:BU:7:THR:O	50:BU:23:VAL:HG23	1.90	0.72
50:BU:58:GLU:O	50:BU:58:GLU:OE1	2.07	0.72
55:CA:153:ALA:HB3	55:CA:154:THR:C	2.14	0.72
1:AA:85:G:N3	1:AA:103:A:H2	1.88	0.72
1:AA:823:G:N3	1:AA:823:G:H2'	2.04	0.72
1:AA:945:A:N3	1:AA:945:A:H2'	2.05	0.72
1:AA:989:G:OP1	26:AZ:31:LEU:HD23	1.90	0.72
1:AA:1019:U:OP2	1:AA:1036:G:O4'	2.07	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1079:C:C2'	1:AA:1080:C:H5'	2.20	0.72
1:AA:1105:U:C2	1:AA:1107:G:C6	2.78	0.72
1:AA:1372:U:H2'	1:AA:1373:A:C5'	2.19	0.72
1:AA:1602:U:C6	1:AA:1602:U:C3'	2.69	0.72
1:AA:1649:G:H21	15:AO:107:ASP:CB	1.89	0.72
1:AA:1955:U:O5'	1:AA:1956:U:O4	2.08	0.72
1:AA:2021:C:H5'	1:AA:2022:U:H5	1.55	0.72
1:AA:2225:A:H5'	1:AA:2226:C:H6	1.54	0.72
1:AA:2623:G:C5'	1:AA:2826:A:H1'	2.19	0.72
1:AA:2649:U:H2'	1:AA:2650:U:C5	2.25	0.72
1:AA:2725:A:C2'	1:AA:2726:U:H3'	2.16	0.72
1:AA:2781:A:C8	1:AA:2781:A:C3'	2.71	0.72
4:AD:92:ILE:HA	4:AD:106:ILE:O	1.90	0.72
4:AD:252:TRP:N	4:AD:255:LYS:HZ1	1.86	0.72
5:AE:13:ARG:CZ	5:AE:20:ALA:HB3	2.19	0.72
6:AF:24:LEU:H	6:AF:25:PRO:HD2	1.55	0.72
7:AG:125:PHE:HA	7:AG:132:ASN:CB	2.19	0.72
11:AK:16:ILE:HB	11:AK:54:VAL:CG2	2.19	0.72
12:AL:25:LEU:H	12:AL:39:ILE:HG22	1.55	0.72
12:AL:34:THR:C	12:AL:61:VAL:HG11	2.15	0.72
12:AL:43:VAL:HG11	12:AL:54:GLU:OE1	1.89	0.72
13:AM:79:ARG:O	13:AM:83:VAL:HG13	1.88	0.72
14:AN:35:VAL:HG12	14:AN:130:LYS:O	1.90	0.72
14:AN:99:PRO:CG	14:AN:101:ARG:HE	2.02	0.72
15:AO:79:LEU:CD2	15:AO:80:PHE:N	2.47	0.72
16:AP:24:LEU:H	16:AP:86:ALA:CB	2.03	0.72
16:AP:30:ARG:HG2	16:AP:91:PRO:HG3	1.72	0.72
16:AP:57:LYS:HG3	16:AP:68:GLN:OE1	1.90	0.72
16:AP:58:LEU:O	16:AP:65:VAL:HG12	1.90	0.72
17:AQ:86:ILE:HG22	17:AQ:87:ASP:N	2.05	0.72
19:AS:50:PRO:HB2	19:AS:53:GLU:OE1	1.90	0.72
20:AT:82:LEU:CD1	20:AT:84:ARG:HG3	2.18	0.72
22:AV:72:VAL:CG2	22:AV:81:LYS:HE2	2.19	0.72
23:AW:95:PRO:CG	23:AW:131:ARG:H	2.03	0.72
23:AW:98:MET:O	23:AW:126:VAL:HA	1.89	0.72
23:AW:141:VAL:CG1	23:AW:142:SER:N	2.53	0.72
28:Ab:50:GLY:HA3	28:Ab:57:VAL:CG2	2.20	0.72
34:BA:8:A:H4'	34:BA:9:G:OP1	1.88	0.72
34:BA:474:G:H5'	49:BT:81:ARG:NE	2.04	0.72
34:BA:524:G:O2'	34:BA:525:C:H5'	1.90	0.72
34:BA:657:G:N2	48:BS:22:THR:O	2.21	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:959:A:H3'	34:BA:960:U:C5'	2.18	0.72
34:BA:1002:G:N1	34:BA:1003:G:O6	2.23	0.72
34:BA:1158:C:O2'	35:BF:133:LYS:NZ	0.58	0.72
34:BA:1227:A:H8	34:BA:1228:C:O4'	1.72	0.72
34:BA:1310:G:C4	34:BA:1327:C:N3	2.55	0.72
35:BF:97:TRP:CZ2	35:BF:102:LEU:HD13	2.24	0.72
39:BJ:10:LEU:HD21	39:BJ:61:LEU:HG	1.72	0.72
41:BL:8:ASP:O	41:BL:12:ARG:HG3	1.89	0.72
42:BM:48:GLU:N	42:BM:49:PRO:HD2	2.05	0.72
42:BM:79:LEU:HD13	42:BM:101:PHE:CB	2.18	0.72
42:BM:113:LYS:HZ2	42:BM:119:ALA:CB	2.03	0.72
44:BO:71:LYS:O	44:BO:74:ALA:HB3	1.90	0.72
48:BS:63:ARG:HH22	48:BS:87:ILE:HG21	1.53	0.72
50:BU:82:MET:HA	50:BU:85:VAL:CG2	2.20	0.72
51:BV:36:ASN:HB3	51:BV:40:LEU:CG	2.20	0.72
51:BV:63:GLN:OE1	51:BV:66:LEU:HD21	1.90	0.72
52:BW:30:LEU:HG	52:BW:50:ALA:N	2.04	0.72
52:BW:51:VAL:CG1	52:BW:75:ALA:CB	2.67	0.72
53:BX:44:ALA:HB1	53:BX:91:LEU:HB2	1.70	0.72
55:CA:54:ILE:HG13	55:CA:211:GLN:NE2	2.05	0.72
55:CA:69:ARG:NE	55:CA:269:GLU:HG2	2.05	0.72
55:CA:124:ILE:HA	55:CA:161:ALA:CB	2.20	0.72
55:CA:253:LYS:NZ	55:CA:269:GLU:HB3	2.04	0.72
1:AA:26:G:H22	1:AA:27:G:H21	1.36	0.71
1:AA:81:G:H4'	1:AA:294:A:H2	1.52	0.71
1:AA:786:C:C2'	1:AA:787:U:H5'	2.20	0.71
1:AA:834:C:H1'	1:AA:2358:G:C2	2.25	0.71
1:AA:894:C:O2	1:AA:895:U:C1'	2.38	0.71
1:AA:957:A:N7	1:AA:959:A:N7	2.38	0.71
1:AA:1242:A:N1	13:AM:6:LEU:HD11	2.04	0.71
1:AA:1301:A:N6	1:AA:1303:G:N3	2.38	0.71
1:AA:1313:U:O2'	1:AA:1314:C:H5'	1.89	0.71
1:AA:1657:C:H2'	1:AA:1658:C:O4'	1.90	0.71
1:AA:2115:G:H5''	1:AA:2116:G:OP2	1.89	0.71
1:AA:2227:A:H1'	4:AD:262:ARG:HH11	1.55	0.71
1:AA:2227:A:H5''	4:AD:260:ARG:HD2	1.72	0.71
1:AA:2250:G:N7	14:AN:83:MET:O	2.23	0.71
1:AA:2389:G:H5''	1:AA:2390:U:O5'	1.89	0.71
1:AA:2498:C:C2'	1:AA:2499:C:H5''	2.20	0.71
1:AA:2533:A:H5'	1:AA:2664:G:HO2'	1.51	0.71
1:AA:2657:A:H2'	1:AA:2658:C:C5'	2.19	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2659:G:C1'	1:AA:2663:G:N2	2.51	0.71
1:AA:2690:C:H3'	1:AA:2690:C:C6	2.22	0.71
1:AA:2807:G:C2	1:AA:2808:U:C5	2.77	0.71
1:AA:2811:G:C6	1:AA:2891:G:N2	2.57	0.71
3:AC:22:ILE:HD13	3:AC:190:ARG:HH12	1.54	0.71
4:AD:164:GLN:HB3	4:AD:176:ARG:HB3	1.72	0.71
4:AD:177:LEU:HD21	4:AD:181:GLU:HB3	1.70	0.71
4:AD:182:LEU:HD12	4:AD:270:ILE:HD11	1.72	0.71
6:AF:157:VAL:HG22	6:AF:194:MET:CB	2.19	0.71
6:AF:195:ASP:O	6:AF:197:ASP:N	2.22	0.71
7:AG:6:ALA:O	7:AG:9:ARG:HB3	1.89	0.71
10:AJ:27:LEU:CD1	10:AJ:57:ILE:HB	2.18	0.71
11:AK:73:THR:HB	11:AK:75:TYR:CE1	2.22	0.71
14:AN:127:ILE:HD13	14:AN:129:THR:HG21	1.72	0.71
17:AQ:29:ARG:HG2	17:AQ:51:ARG:CG	2.20	0.71
17:AQ:51:ARG:NH1	17:AQ:114:LEU:HD13	2.05	0.71
19:AS:40:LEU:HG	19:AS:54:GLY:C	2.14	0.71
19:AS:83:ARG:CD	19:AS:83:ARG:C	2.63	0.71
25:AY:19:LEU:HD13	25:AY:20:VAL:N	2.05	0.71
27:Aa:40:HIS:HB3	27:Aa:41:PRO:CD	2.19	0.71
31:Ae:26:LYS:HD2	31:Ae:44:LYS:N	2.05	0.71
34:BA:359:U:H2'	34:BA:360:A:H8	1.54	0.71
34:BA:453:A:N6	34:BA:480:U:H3	1.88	0.71
34:BA:646:U:O2'	34:BA:647:C:H5'	1.90	0.71
34:BA:1296:C:OP1	46:BQ:44:ARG:CD	2.30	0.71
34:BA:1319:A:P	52:BW:12:ASP:OD1	2.48	0.71
34:BA:1414:U:H2'	34:BA:1415:G:C8	2.25	0.71
35:BF:31:TYR:HE2	35:BF:200:ILE:HG21	1.54	0.71
36:BG:47:LEU:O	36:BG:52:LEU:HD22	1.90	0.71
37:BH:90:GLY:HA3	37:BH:200:GLU:CD	2.14	0.71
38:BI:86:ALA:O	38:BI:125:SER:HB3	1.91	0.71
41:BL:40:ALA:HB2	41:BL:45:ILE:HG12	1.72	0.71
43:BN:11:PHE:CD1	47:BR:55:GLY:HA3	2.25	0.71
44:BO:86:GLY:HA2	44:BO:112:THR:HG23	1.72	0.71
46:BQ:15:VAL:HG11	46:BQ:37:THR:CG2	2.14	0.71
49:BT:21:VAL:HG13	49:BT:36:ILE:HD11	1.70	0.71
49:BT:23:ASP:O	49:BT:25:ARG:N	2.21	0.71
51:BV:37:VAL:HG12	51:BV:41:LYS:HE3	1.72	0.71
55:CA:13:HIS:CB	55:CA:109:THR:N	2.53	0.71
55:CA:13:HIS:HB3	55:CA:109:THR:CG2	2.20	0.71
55:CA:62:ALA:HA	55:CA:187:TYR:CD2	2.25	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:10:G:H2'	1:AA:11:G:H8	1.55	0.71
1:AA:152:G:H2'	1:AA:153:C:C5'	2.19	0.71
1:AA:289:A:C4	1:AA:351:G:O6	2.43	0.71
1:AA:324:A:N7	1:AA:340:A:H1'	2.06	0.71
1:AA:361:G:H2'	1:AA:362:U:O4'	1.89	0.71
1:AA:453:C:H4'	1:AA:457:A:N6	2.04	0.71
1:AA:586:A:N6	1:AA:1254:A:C2	2.58	0.71
1:AA:652:C:O5'	1:AA:652:C:H6	1.73	0.71
1:AA:807:U:C2'	1:AA:808:G:H5'	2.20	0.71
1:AA:825:C:O2'	1:AA:826:U:H5'	1.89	0.71
1:AA:906:G:H2'	1:AA:906:G:N3	2.05	0.71
1:AA:932:G:OP1	1:AA:932:G:H4'	1.88	0.71
1:AA:956:G:P	14:AN:87:LYS:HZ2	2.13	0.71
1:AA:1165:U:H2'	1:AA:1166:C:C6	2.24	0.71
1:AA:1308:A:H2'	1:AA:1309:G:O4'	1.89	0.71
1:AA:1557:C:C2	1:AA:1558:A:N7	2.57	0.71
1:AA:1613:G:H3'	1:AA:1614:A:C5'	2.17	0.71
1:AA:2238:G:C2'	1:AA:2239:G:H5''	2.20	0.71
1:AA:2323:G:O2'	1:AA:2324:C:H5'	1.90	0.71
1:AA:2584:U:C2'	1:AA:2585:U:C5	2.73	0.71
1:AA:2629:A:H5'	1:AA:2895:U:C1'	2.20	0.71
1:AA:2647:U:C2'	1:AA:2648:C:H6	2.03	0.71
1:AA:2666:C:C5	1:AA:2667:C:H5	1.87	0.71
1:AA:2875:C:H4'	17:AQ:3:ARG:HB2	1.71	0.71
4:AD:46:GLN:C	4:AD:48:ARG:H	1.98	0.71
5:AE:5:LEU:C	5:AE:5:LEU:HD22	2.15	0.71
5:AE:5:LEU:HD22	5:AE:5:LEU:O	1.90	0.71
7:AG:37:VAL:HB	7:AG:99:MET:SD	2.30	0.71
7:AG:44:GLY:H	7:AG:88:ILE:CG2	2.03	0.71
7:AG:51:ARG:HD2	7:AG:51:ARG:H	1.53	0.71
7:AG:75:LYS:HD3	7:AG:85:GLY:N	2.05	0.71
8:AH:7:LEU:HB3	8:AH:65:HIS:NE2	2.05	0.71
10:AJ:75:SER:HA	10:AJ:130:SER:CB	2.15	0.71
10:AJ:108:ALA:CA	10:AJ:109:LYS:HB2	2.20	0.71
12:AL:59:LYS:HA	12:AL:86:ILE:CD1	2.15	0.71
12:AL:101:PRO:HB3	34:BA:346:G:C5'	2.20	0.71
14:AN:34:LEU:HD22	14:AN:118:LEU:HB3	1.71	0.71
14:AN:77:LYS:CB	14:AN:78:PRO:HD3	2.20	0.71
14:AN:85:LYS:C	14:AN:87:LYS:N	2.46	0.71
15:AO:61:HIS:C	15:AO:64:ARG:HD3	2.14	0.71
15:AO:97:VAL:HA	15:AO:114:VAL:CG1	2.21	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:12:PHE:O	16:AP:13:ARG:C	2.33	0.71
16:AP:64:GLU:CD	16:AP:67:ARG:HB3	2.15	0.71
18:AR:8:VAL:CG2	18:AR:9:VAL:H	2.01	0.71
20:AT:66:GLU:HA	20:AT:69:LEU:HD13	1.71	0.71
20:AT:81:ALA:HB1	20:AT:98:LYS:O	1.89	0.71
21:AU:15:GLU:HB3	21:AU:16:LYS:HE2	1.71	0.71
21:AU:44:GLU:CG	21:AU:51:VAL:HG23	2.14	0.71
31:Ae:8:LYS:H	31:Ae:8:LYS:CE	2.02	0.71
34:BA:192:U:H2'	34:BA:193:C:C6	2.25	0.71
34:BA:254:G:O2'	34:BA:255:G:H5'	1.89	0.71
34:BA:575:G:N1	34:BA:821:G:C8	2.59	0.71
34:BA:687:A:H61	34:BA:703:G:H1'	1.54	0.71
34:BA:697:U:H6	34:BA:697:U:O5'	1.72	0.71
34:BA:708:C:H4'	44:BO:37:GLY:HA3	1.71	0.71
34:BA:878:G:H2'	34:BA:879:C:H6	1.54	0.71
34:BA:1158:C:HO2'	35:BF:133:LYS:HZ2	0.73	0.71
34:BA:1196:U:H6	34:BA:1196:U:H3'	1.54	0.71
34:BA:1200:C:H5''	34:BA:1201:A:O3'	1.90	0.71
35:BF:223:ILE:HG22	35:BF:229:VAL:HA	1.71	0.71
36:BG:11:ARG:CG	36:BG:16:ARG:HH21	2.02	0.71
38:BI:145:LYS:HA	38:BI:148:VAL:CG2	2.19	0.71
39:BJ:53:ALA:HB1	39:BJ:86:ARG:HH11	1.52	0.71
41:BL:32:LYS:HZ1	41:BL:32:LYS:H	1.39	0.71
41:BL:85:ARG:HD2	41:BL:134:ILE:O	1.90	0.71
42:BM:19:LEU:HD23	42:BM:20:ARG:H	1.55	0.71
42:BM:73:GLN:O	42:BM:77:ILE:HG13	1.88	0.71
50:BU:40:LYS:HB3	50:BU:40:LYS:NZ	2.01	0.71
1:AA:5:A:O2'	1:AA:6:A:H5'	1.90	0.71
1:AA:270(X):G:C6	1:AA:270(Y):G:H1'	2.26	0.71
1:AA:290:G:OP2	1:AA:351:G:N2	2.21	0.71
1:AA:299:A:N1	1:AA:322:A:H2'	2.04	0.71
1:AA:532:A:C8	1:AA:561:G:N2	2.57	0.71
1:AA:637:A:H2	1:AA:651:G:H5''	1.53	0.71
1:AA:663:G:H4'	13:AM:18:ARG:HE	1.55	0.71
1:AA:774:A:O2'	1:AA:775:G:C8	2.43	0.71
1:AA:1034:G:N1	1:AA:1122:G:N7	2.38	0.71
1:AA:1047:G:C2	1:AA:1110:G:H3'	2.21	0.71
1:AA:1075:C:C1'	10:AJ:90:LYS:HZ3	2.00	0.71
1:AA:1342:A:C1'	1:AA:1345:C:H41	2.02	0.71
1:AA:1350:C:O2'	1:AA:1351:C:H5'	1.91	0.71
1:AA:1532:C:O2'	1:AA:1533:C:O4'	2.07	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1579:A:N7	1:AA:1580:A:N3	2.38	0.71
1:AA:1596:A:N6	1:AA:1597:A:C6	2.58	0.71
1:AA:1650:G:H21	1:AA:1651:G:H1'	1.51	0.71
1:AA:1657:C:C5'	5:AE:133:LYS:HD3	2.17	0.71
1:AA:1804:C:H4'	4:AD:250:TRP:CZ2	2.24	0.71
1:AA:1899:G:N2	1:AA:1902:C:H41	1.89	0.71
1:AA:2017:U:C2'	1:AA:2018:G:OP1	2.37	0.71
1:AA:2305:A:C2'	1:AA:2306:C:H5''	2.18	0.71
1:AA:2352:A:N7	1:AA:2366:A:C6	2.59	0.71
1:AA:2393:A:O2'	1:AA:2394:C:H5'	1.90	0.71
1:AA:2423:U:H2'	1:AA:2423:U:O2	1.88	0.71
2:AB:49:C:OP1	16:AP:97:ARG:N	2.22	0.71
3:AC:46:LYS:HD3	3:AC:210:ARG:HB2	1.72	0.71
3:AC:82:LYS:CD	3:AC:116:THR:HG21	2.19	0.71
4:AD:161:THR:OG1	4:AD:196:VAL:HB	1.90	0.71
4:AD:214:TRP:CZ2	4:AD:219:PRO:HB3	2.25	0.71
4:AD:270:ILE:HG22	4:AD:271:ILE:O	1.90	0.71
7:AG:80:PHE:O	7:AG:83:ARG:NH1	2.23	0.71
7:AG:125:PHE:HA	7:AG:132:ASN:HB3	1.70	0.71
8:AH:7:LEU:C	8:AH:51:ARG:NH1	2.49	0.71
8:AH:33:LEU:HD21	8:AH:35:VAL:HG13	1.71	0.71
10:AJ:27:LEU:HD21	10:AJ:57:ILE:CA	2.18	0.71
11:AK:7:LYS:HD3	11:AK:39:ARG:CZ	2.21	0.71
14:AN:16:ARG:HG3	14:AN:72:LYS:HB3	1.72	0.71
14:AN:93:TYR:O	14:AN:94:VAL:HG12	1.91	0.71
17:AQ:110:ILE:HD11	34:BA:1431:C:OP1	1.85	0.71
18:AR:74:LEU:HD13	18:AR:78:THR:CG2	2.20	0.71
23:AW:42:VAL:HB	23:AW:43:GLU:OE2	1.90	0.71
23:AW:109:ALA:C	23:AW:113:ALA:HB2	2.15	0.71
25:AY:3:LYS:HA	25:AY:6:GLU:HG2	1.72	0.71
28:Ab:9:LYS:O	28:Ab:10:LYS:HB2	1.90	0.71
34:BA:66:G:C4'	34:BA:173:U:C4	2.73	0.71
34:BA:192:U:C1'	53:BX:103:GLY:HA2	2.20	0.71
34:BA:577:G:H21	34:BA:578:C:H1'	1.55	0.71
34:BA:959:A:H2'	34:BA:960:U:C4'	2.21	0.71
34:BA:1063:C:H5''	34:BA:1064:G:OP2	1.91	0.71
34:BA:1500:A:OP1	34:BA:1508:G:P	2.48	0.71
35:BF:115:LEU:HD13	35:BF:145:LEU:CB	2.19	0.71
35:BF:208:ILE:CG1	35:BF:211:ILE:HD12	2.19	0.71
36:BG:22:TRP:CZ3	36:BG:32:LEU:HB3	2.25	0.71
37:BH:20:TYR:HA	37:BH:33:MET:SD	2.30	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:28:PHE:N	38:BI:28:PHE:CD1	2.58	0.71
39:BJ:33:TYR:HE2	39:BJ:74:ASP:CB	2.03	0.71
40:BK:153:HIS:HE1	44:BO:58:PRO:HD2	1.53	0.71
44:BO:22:HIS:ND1	44:BO:29:ILE:HD11	2.05	0.71
46:BQ:14:ARG:HA	46:BQ:43:THR:O	1.90	0.71
46:BQ:91:ARG:NH1	46:BQ:97:PRO:O	2.23	0.71
49:BT:6:LEU:O	49:BT:6:LEU:HD22	1.90	0.71
50:BU:8:GLY:O	50:BU:56:VAL:HA	1.91	0.71
55:CA:13:HIS:CB	55:CA:108:GLN:HG3	2.20	0.71
55:CA:119:TYR:HB3	55:CA:120:GLY:HA3	1.70	0.71
55:CA:226:ILE:O	55:CA:267:LEU:HG	1.90	0.71
55:CA:322:GLU:HG3	55:CA:582:PRO:HD2	1.72	0.71
1:AA:293:U:H3'	1:AA:293:U:C6	2.25	0.71
1:AA:459:U:C5	1:AA:469:G:N2	2.58	0.71
1:AA:510:C:O5'	1:AA:512:G:N1	2.24	0.71
1:AA:558:G:H5'	11:AK:112:LEU:HD12	1.71	0.71
1:AA:718:A:H5''	1:AA:719:C:C6	2.25	0.71
1:AA:760:G:C2'	1:AA:761:A:H5'	2.20	0.71
1:AA:811:U:C6	1:AA:811:U:O5'	2.43	0.71
1:AA:974:G:O4'	1:AA:1187:G:H1'	1.90	0.71
1:AA:1068:G:O4'	1:AA:1096:A:H1'	1.91	0.71
1:AA:1322:A:P	20:AT:11:ARG:HH21	2.14	0.71
1:AA:1341:U:O4	1:AA:1395:A:H2	1.72	0.71
1:AA:1537:C:C6	1:AA:1537:C:H3'	2.24	0.71
1:AA:1759:A:H5'	1:AA:2715:C:C1'	2.20	0.71
1:AA:1788:C:O2	4:AD:222:ARG:NH2	2.23	0.71
1:AA:1799:G:H22	4:AD:157:ARG:HH22	1.39	0.71
1:AA:1815:A:H1'	1:AA:1817:G:C5	2.26	0.71
1:AA:2068:U:O2	1:AA:2430:A:N1	2.24	0.71
1:AA:2178:C:H5''	3:AC:46:LYS:HG2	1.73	0.71
1:AA:2241:A:H2'	1:AA:2242:G:C8	2.25	0.71
1:AA:2559:C:O2'	1:AA:2560:C:H5'	1.89	0.71
1:AA:2787:C:C1'	5:AE:61:ARG:HD2	2.21	0.71
4:AD:127:VAL:CG1	4:AD:194:GLY:HA3	2.14	0.71
4:AD:250:TRP:CE3	4:AD:250:TRP:HA	2.25	0.71
5:AE:121:ASN:HB3	5:AE:122:PHE:HD1	1.54	0.71
7:AG:5:VAL:CG1	7:AG:9:ARG:HH22	2.02	0.71
11:AK:11:PRO:HB2	11:AK:13:TRP:CZ3	2.25	0.71
12:AL:47:ILE:HD12	12:AL:52:VAL:CG2	2.21	0.71
12:AL:94:ARG:HG3	12:AL:95:GLY:H	1.56	0.71
13:AM:126:VAL:HB	13:AM:146:VAL:N	2.06	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:128:HIS:CG	13:AM:129:ALA:H	2.05	0.71
15:AO:64:ARG:NH1	15:AO:65:LEU:HB2	2.06	0.71
18:AR:22:LYS:H	18:AR:24:TYR:HE1	1.37	0.71
26:AZ:40:THR:HG22	26:AZ:42:ALA:N	2.04	0.71
34:BA:81:G:O6	34:BA:87:A:N6	2.23	0.71
34:BA:109:A:N7	34:BA:326:G:N3	2.37	0.71
34:BA:484:G:C8	34:BA:486:U:N3	2.59	0.71
34:BA:1037:C:N4	34:BA:1038:C:N4	2.39	0.71
34:BA:1142:G:H2'	34:BA:1143:G:H8	1.53	0.71
34:BA:1226:C:N4	46:BQ:104:ARG:CD	2.53	0.71
34:BA:1315:U:O2	34:BA:1361:G:O4'	1.86	0.71
34:BA:1315:U:O3'	34:BA:1360:A:H1'	1.91	0.71
35:BF:82:ARG:CA	35:BF:94:ASN:HD21	2.03	0.71
37:BH:76:ARG:O	37:BH:79:PHE:HB3	1.91	0.71
38:BI:98:THR:HG21	38:BI:119:LEU:HD21	1.72	0.71
39:BJ:49:ALA:HB1	51:BV:80:PRO:HD3	1.71	0.71
40:BK:50:ILE:HG21	40:BK:58:PRO:HA	1.71	0.71
41:BL:94:TYR:HE1	41:BL:132:GLU:OE1	1.74	0.71
44:BO:84:VAL:HG23	44:BO:111:ASP:H	1.54	0.71
45:BP:100:ILE:HD13	45:BP:100:ILE:N	2.06	0.71
46:BQ:19:LEU:O	46:BQ:25:ILE:CB	2.38	0.71
46:BQ:19:LEU:CB	46:BQ:25:ILE:HG21	2.19	0.71
47:BR:40:CYS:N	47:BR:43:CYS:SG	2.59	0.71
49:BT:57:ARG:O	49:BT:60:LEU:HB2	1.91	0.71
50:BU:61:GLU:HA	50:BU:71:PHE:CE2	2.25	0.71
55:CA:62:ALA:N	55:CA:63:ALA:HA	2.06	0.71
55:CA:62:ALA:CA	55:CA:187:TYR:CD2	2.74	0.71
55:CA:119:TYR:CD2	55:CA:121:LEU:HD11	2.25	0.71
55:CA:204:PRO:O	55:CA:229:GLY:N	2.23	0.71
1:AA:18:C:OP1	18:AR:26:GLY:HA2	1.90	0.71
1:AA:261:G:O2'	1:AA:609:A:H4'	1.89	0.71
1:AA:270(Q):C:C2	1:AA:270(R):G:C8	2.79	0.71
1:AA:299:A:O2'	1:AA:319:C:H4'	1.90	0.71
1:AA:662:G:O2'	13:AM:18:ARG:HB2	1.90	0.71
1:AA:861:A:C2'	1:AA:862:G:H5'	2.20	0.71
1:AA:966:G:O2'	1:AA:2267:A:N6	2.23	0.71
1:AA:1248:G:H8	18:AR:2:PRO:HA	1.55	0.71
1:AA:1265:A:C8	1:AA:1267:U:O4	2.43	0.71
1:AA:1266:G:N2	1:AA:2012:G:H2'	2.04	0.71
1:AA:1275:A:H2	15:AO:16:HIS:CA	1.96	0.71
1:AA:1453:A:N1	1:AA:1454:U:H1'	2.06	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1788:C:H2'	4:AD:222:ARG:HE	1.54	0.71
1:AA:1807:G:H21	1:AA:1809:A:H5'	1.55	0.71
1:AA:1937:A:C2'	1:AA:1938:A:OP1	2.38	0.71
1:AA:2046:G:OP1	28:Ab:18:ALA:CB	2.39	0.71
1:AA:2072:G:H2'	1:AA:2073:C:C6	2.26	0.71
1:AA:2143:C:N4	1:AA:2144:U:O4	2.24	0.71
1:AA:2283:C:C5	1:AA:2389:G:N3	2.59	0.71
1:AA:2307:G:H3'	1:AA:2308:G:C4'	2.20	0.71
1:AA:2378:A:N1	1:AA:2379:G:H1'	2.05	0.71
1:AA:2582:G:C2'	1:AA:2583:G:H5'	2.21	0.71
1:AA:2623:G:N2	28:Ab:22:HIS:CE1	2.52	0.71
1:AA:2629:A:N1	1:AA:2801:A:H2	1.86	0.71
1:AA:2659:G:H1'	1:AA:2663:G:N2	2.05	0.71
1:AA:2820:A:H2'	1:AA:2821:A:OP1	1.89	0.71
2:AB:75:G:H22	23:AW:87:ASP:CG	1.98	0.71
3:AC:78:ALA:O	3:AC:119:VAL:HG11	1.89	0.71
4:AD:226:MET:HE1	4:AD:237:GLU:N	2.05	0.71
5:AE:22:PRO:HA	5:AE:185:LYS:CA	2.21	0.71
6:AF:37:VAL:HA	6:AF:184:TYR:CZ	2.25	0.71
6:AF:181:LEU:HD13	6:AF:181:LEU:N	2.05	0.71
8:AH:98:LEU:H	8:AH:125:VAL:HG21	1.53	0.71
10:AJ:34:ILE:CD1	10:AJ:35:MET:H	2.00	0.71
11:AK:86:PRO:HB2	11:AK:89:LYS:HZ1	1.53	0.71
12:AL:63:VAL:O	12:AL:64:ARG:HB3	1.88	0.71
12:AL:64:ARG:NH2	12:AL:67:LYS:N	2.25	0.71
14:AN:37:LEU:HA	14:AN:100:GLY:HA2	1.72	0.71
14:AN:74:TYR:O	14:AN:91:GLU:HG2	1.90	0.71
16:AP:23:ARG:O	16:AP:24:LEU:HD12	1.91	0.71
18:AR:74:LEU:HD22	18:AR:78:THR:CG2	2.19	0.71
18:AR:94:ASN:O	18:AR:95:LEU:C	2.34	0.71
19:AS:62:LEU:HD13	19:AS:98:GLU:N	2.05	0.71
23:AW:41:LEU:O	23:AW:44:PHE:HB2	1.91	0.71
26:AZ:6:VAL:CG2	26:AZ:35:ARG:HG3	2.13	0.71
34:BA:624:C:H4'	49:BT:10:GLY:O	1.90	0.71
34:BA:716:A:C1'	44:BO:118:GLY:HA2	2.15	0.71
34:BA:989:C:C2'	34:BA:990:C:H5'	2.20	0.71
34:BA:1055:A:N3	34:BA:1055:A:H2'	2.03	0.71
34:BA:1068:G:H2'	34:BA:1069:C:H6	1.56	0.71
34:BA:1128:C:C5	34:BA:1139:G:O6	2.44	0.71
34:BA:1327:C:H5''	54:BY:20:LYS:CE	2.19	0.71
34:BA:1422:G:H2'	34:BA:1423:G:H8	1.55	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:77:ILE:HD11	36:BG:103:VAL:HG21	1.72	0.71
36:BG:88:ARG:O	36:BG:91:LEU:HB3	1.89	0.71
37:BH:191:ARG:HH11	37:BH:192:GLU:HA	1.54	0.71
39:BJ:23:LYS:O	39:BJ:26:ILE:CB	2.36	0.71
39:BJ:30:LEU:HB3	39:BJ:35:ALA:HB3	1.72	0.71
39:BJ:68:PRO:O	39:BJ:71:ARG:HG2	1.90	0.71
42:BM:58:HIS:CD2	42:BM:59:PHE:HD1	2.06	0.71
43:BN:76:ASN:C	43:BN:78:ASN:H	1.98	0.71
44:BO:21:ILE:HA	44:BO:30:VAL:HG22	1.71	0.71
44:BO:95:ILE:CA	44:BO:98:LEU:HG	2.20	0.71
46:BQ:108:ARG:HA	46:BQ:108:ARG:NH1	2.00	0.71
48:BS:36:ILE:CD1	48:BS:60:VAL:HG13	2.20	0.71
49:BT:58:TYR:CD1	49:BT:58:TYR:C	2.68	0.71
51:BV:40:LEU:O	51:BV:43:PHE:HD1	1.73	0.71
55:CA:82:GLY:C	55:CA:361:ARG:HD2	2.15	0.71
55:CA:373:MET:HE2	55:CA:380:LEU:CD2	2.20	0.71
55:CA:405:LEU:O	55:CA:407:VAL:HG13	1.90	0.71
1:AA:298:G:N1	1:AA:338:G:O2'	2.22	0.71
1:AA:460:A:C2'	1:AA:461:C:H6	2.02	0.71
1:AA:668:G:C2	1:AA:670:A:C6	2.79	0.71
1:AA:739:G:H2'	1:AA:1784:A:H61	1.55	0.71
1:AA:781:A:H5'	1:AA:782:A:OP1	1.91	0.71
1:AA:893:C:C2'	1:AA:894:C:H6	1.99	0.71
1:AA:1050:A:N6	1:AA:2751:G:C8	2.59	0.71
1:AA:1059:G:C3'	10:AJ:74:ALA:N	2.54	0.71
1:AA:1332:G:C5	1:AA:1609:A:N6	2.58	0.71
1:AA:1340:U:H5	21:AU:57:LEU:HG	1.54	0.71
1:AA:1438:U:H3	1:AA:1553:A:N6	1.88	0.71
1:AA:1473:G:H2'	1:AA:1474:C:C6	2.26	0.71
1:AA:1504:C:O5'	1:AA:1504:C:H6	1.73	0.71
1:AA:1535:U:H2'	1:AA:1536:A:C1'	2.20	0.71
1:AA:1750:G:O2'	1:AA:1751:C:H5'	1.91	0.71
1:AA:1851:U:H2'	1:AA:1852:C:C5	2.24	0.71
1:AA:1910:G:N2	1:AA:1921:G:N7	2.33	0.71
1:AA:1959:G:H5'	34:BA:1418:A:C2'	2.21	0.71
1:AA:2092:U:C5	1:AA:2227:A:N6	2.58	0.71
1:AA:2376:A:OP1	1:AA:2376:A:H8	1.74	0.71
1:AA:2681:C:O2'	1:AA:2682:U:C5'	2.38	0.71
1:AA:2685:G:H4'	12:AL:66:LYS:HE3	1.71	0.71
1:AA:2847:U:C5	1:AA:2848:G:N7	2.58	0.71
3:AC:197:GLU:O	3:AC:200:LYS:HB3	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:37:LEU:HD11	4:AD:64:ILE:N	2.04	0.71
4:AD:154:LYS:O	4:AD:155:LEU:HB3	1.88	0.71
4:AD:209:ALA:O	4:AD:210:GLY:C	2.34	0.71
5:AE:119:ARG:NH1	5:AE:155:LYS:HD2	2.06	0.71
5:AE:128:SER:C	5:AE:130:GLY:H	1.98	0.71
6:AF:142:TRP:O	6:AF:145:GLU:HB2	1.91	0.71
7:AG:9:ARG:HG2	7:AG:13:GLU:OE2	1.90	0.71
7:AG:75:LYS:HZ3	7:AG:87:PRO:HD3	1.56	0.71
7:AG:86:MET:H	7:AG:87:PRO:CD	2.03	0.71
8:AH:126:PRO:HG2	8:AH:132:ARG:NH1	2.06	0.71
11:AK:38:HIS:C	11:AK:42:TRP:HE3	1.97	0.71
14:AN:77:LYS:CB	14:AN:78:PRO:CD	2.68	0.71
17:AQ:7:ILE:C	17:AQ:11:GLU:OE1	2.34	0.71
18:AR:61:TRP:CA	18:AR:65:ILE:HD11	2.20	0.71
20:AT:13:SER:O	20:AT:16:LYS:NZ	2.23	0.71
22:AV:11:ASP:O	22:AV:73:ARG:HD2	1.91	0.71
28:Ab:11:THR:HG23	28:Ab:15:ARG:HB3	1.73	0.71
29:Ac:25:LYS:C	29:Ac:26:ASN:CG	2.57	0.71
31:Ae:22:VAL:CG1	31:Ae:23:VAL:H	2.04	0.71
34:BA:160:A:H2'	34:BA:161:A:O4'	1.90	0.71
34:BA:519:C:OP2	45:BP:50:SER:O	2.08	0.71
34:BA:659:U:H2'	34:BA:660:G:C8	2.26	0.71
34:BA:922:G:N2	34:BA:923:A:H1'	2.06	0.71
34:BA:1276:G:H2'	34:BA:1277:C:O4'	1.90	0.71
35:BF:48:MET:HA	35:BF:51:LEU:CD1	2.20	0.71
35:BF:162:ILE:HD13	35:BF:162:ILE:H	1.55	0.71
35:BF:175:ARG:O	35:BF:176:GLU:C	2.33	0.71
37:BH:156:GLU:O	37:BH:159:ARG:HB3	1.90	0.71
38:BI:114:GLY:O	38:BI:115:VAL:HG13	1.89	0.71
39:BJ:48:LEU:CB	51:BV:78:LEU:HD23	2.20	0.71
40:BK:15:ASP:H	40:BK:20:ASP:H	1.37	0.71
41:BL:129:VAL:HG22	41:BL:130:GLY:N	2.04	0.71
44:BO:102:GLY:C	44:BO:104:GLN:H	1.95	0.71
45:BP:56:ALA:HB2	45:BP:70:ILE:HG12	1.73	0.71
46:BQ:14:ARG:N	46:BQ:43:THR:O	2.23	0.71
46:BQ:16:ASP:CA	46:BQ:34:LEU:HG	2.21	0.71
46:BQ:65:LYS:HA	46:BQ:66:LEU:CB	2.19	0.71
46:BQ:87:TYR:OH	52:BW:75:ALA:HB3	1.90	0.71
49:BT:74:LEU:HD22	49:BT:79:VAL:HG21	1.73	0.71
50:BU:17:LYS:HE3	50:BU:48:GLU:HA	1.71	0.71
52:BW:5:LEU:HD23	52:BW:6:LYS:N	2.04	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:42:PRO:O	52:BW:45:VAL:HG23	1.89	0.71
55:CA:237:VAL:HG21	55:CA:276:ILE:HD13	1.73	0.71
55:CA:274:VAL:HG22	55:CA:275:ALA:N	2.03	0.71
55:CA:312:CYS:HB2	55:CA:354:ASP:O	1.88	0.71
55:CA:346:ARG:HG2	55:CA:346:ARG:NH1	2.04	0.71
55:CA:515:GLY:O	55:CA:516:ALA:C	2.33	0.71
1:AA:85:G:OP1	22:AV:8:LYS:HB3	1.90	0.71
1:AA:265:A:H2'	1:AA:266:G:O4'	1.89	0.71
1:AA:371:A:H62	1:AA:424:G:C4'	2.04	0.71
1:AA:557:U:H4'	11:AK:112:LEU:HD21	1.72	0.71
1:AA:923:C:O4'	24:AX:26:TYR:HB2	1.89	0.71
1:AA:991:C:OP2	1:AA:1186:G:OP2	2.09	0.71
1:AA:1554:A:O2'	1:AA:1555:G:OP1	2.09	0.71
1:AA:1665:A:C8	1:AA:2726:U:N3	2.58	0.71
1:AA:1856:G:H2'	1:AA:1857:G:C5'	2.19	0.71
1:AA:2447:G:N7	1:AA:2500:U:H2'	2.04	0.71
1:AA:2597:G:C5'	4:AD:242:ARG:HG2	2.20	0.71
1:AA:2674:G:C4	1:AA:2675:A:N7	2.59	0.71
4:AD:72:LYS:HZ1	4:AD:99:ASP:CG	1.99	0.71
4:AD:91:ARG:CZ	4:AD:198:ASN:ND2	2.54	0.71
4:AD:221:VAL:C	4:AD:222:ARG:HG3	2.13	0.71
5:AE:45:THR:OG1	5:AE:46:ALA:N	2.21	0.71
5:AE:104:VAL:HG13	5:AE:198:VAL:HA	1.72	0.71
5:AE:115:GLY:HA2	5:AE:157:ALA:HA	1.71	0.71
6:AF:12:LEU:HB3	6:AF:127:GLU:HB3	1.71	0.71
6:AF:36:VAL:HG11	6:AF:183:VAL:HG11	1.72	0.71
8:AH:71:LEU:O	8:AH:74:ASN:HB3	1.91	0.71
8:AH:94:TYR:OH	8:AH:128:PRO:HG2	1.91	0.71
9:AI:54:ALA:HA	9:AI:83:TYR:O	1.89	0.71
11:AK:36:GLY:HA2	11:AK:47:ALA:O	1.89	0.71
11:AK:91:LEU:CD2	11:AK:98:VAL:HG21	2.21	0.71
12:AL:73:ASP:O	17:AQ:79:HIS:CE1	2.43	0.71
12:AL:96:THR:CA	12:AL:117:LEU:HD11	2.12	0.71
12:AL:116:SER:CB	34:BA:343:U:C4	2.73	0.71
13:AM:45:LEU:HB3	13:AM:46:LYS:CE	2.21	0.71
13:AM:76:LYS:HA	13:AM:101:VAL:CG1	2.21	0.71
16:AP:28:VAL:O	16:AP:29:PHE:HB2	1.90	0.71
17:AQ:103:ARG:C	17:AQ:105:LEU:N	2.42	0.71
18:AR:70:ARG:HG2	18:AR:75:ASN:CA	2.18	0.71
19:AS:25:LEU:HA	19:AS:28:GLU:CD	2.16	0.71
21:AU:32:PRO:HA	21:AU:77:LYS:CD	2.17	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:39:VAL:HG21	23:AW:86:VAL:CG2	2.20	0.71
23:AW:144:LEU:HB3	23:AW:174:VAL:CG1	2.14	0.71
27:Aa:41:PRO:C	27:Aa:58:ARG:HH11	1.99	0.71
27:Aa:53:GLU:HG2	27:Aa:54:GLY:H	1.52	0.71
29:Ac:48:VAL:O	29:Ac:49:HIS:CB	2.37	0.71
34:BA:716:A:O2'	34:BA:717:C:H5'	1.91	0.71
34:BA:1032:A:C5	34:BA:1032(A):G:H1'	2.26	0.71
34:BA:1036:G:C8	34:BA:1037:C:C5	2.78	0.71
34:BA:1157:A:H4'	34:BA:1158:C:O2	1.90	0.71
34:BA:1206:G:C5'	36:BG:194:GLY:HA2	2.20	0.71
34:BA:1261:A:N6	34:BA:1274:G:C1'	2.50	0.71
34:BA:1318:A:O2'	52:BW:37:ARG:N	2.24	0.71
34:BA:1405:G:O4'	34:BA:1519:A:H4'	1.89	0.71
34:BA:1412:C:C2	34:BA:1489:G:C6	2.69	0.71
34:BA:1412:C:O2	34:BA:1489:G:C2	2.43	0.71
35:BF:35:GLU:CD	35:BF:35:GLU:C	2.59	0.71
37:BH:173:TRP:HA	37:BH:186:LEU:HD12	1.70	0.71
39:BJ:98:LEU:HG	51:BV:28:GLU:HG3	1.73	0.71
40:BK:111:ARG:NH1	40:BK:111:ARG:HB3	2.05	0.71
40:BK:150:ALA:HA	44:BO:59:TYR:CG	2.25	0.71
41:BL:14:ARG:O	41:BL:18:ARG:NE	2.24	0.71
41:BL:50:ARG:HG2	41:BL:50:ARG:NH1	2.03	0.71
46:BQ:73:GLU:O	46:BQ:77:ASN:OD1	2.08	0.71
46:BQ:108:ARG:NH1	46:BQ:111:LYS:HB3	2.05	0.71
48:BS:63:ARG:HH22	48:BS:87:ILE:HD13	1.56	0.71
49:BT:6:LEU:CD2	49:BT:17:TYR:HD2	2.02	0.71
49:BT:56:ALA:O	49:BT:60:LEU:HG	1.90	0.71
50:BU:60:ILE:HD13	50:BU:62:SER:HG	1.56	0.71
55:CA:13:HIS:NE2	55:CA:106:MET:CG	2.52	0.71
55:CA:183:MET:HE2	55:CA:183:MET:HA	1.72	0.71
55:CA:493:GLN:HA	55:CA:518:VAL:O	1.90	0.71
1:AA:442:G:C4'	6:AF:46:ARG:HG3	2.20	0.71
1:AA:445:C:H3'	18:AR:3:ARG:NE	2.01	0.71
1:AA:562:U:O2	1:AA:572:A:C1'	2.39	0.71
1:AA:569:U:H1'	1:AA:947:G:H1'	1.73	0.71
1:AA:663:G:H4'	13:AM:18:ARG:NE	2.06	0.71
1:AA:779:U:O4	1:AA:780:G:C2	2.44	0.71
1:AA:1005:C:C5	1:AA:1143:A:OP1	2.41	0.71
1:AA:1075:C:O2'	10:AJ:90:LYS:HD3	1.90	0.71
1:AA:1263:U:N3	1:AA:1264:G:N2	2.38	0.71
1:AA:1280:G:O2'	1:AA:1281:G:H5'	1.89	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1609:A:N7	1:AA:1616:A:N3	2.38	0.71
1:AA:1775:U:C5	4:AD:208:LYS:HD2	2.25	0.71
1:AA:1959:G:H5'	34:BA:1418:A:HO2'	1.55	0.71
1:AA:1971:A:C8	1:AA:1971:A:C3'	2.72	0.71
1:AA:2019:A:H3'	1:AA:2020:A:C5'	2.18	0.71
1:AA:2160:G:H2'	1:AA:2161:C:C6	2.25	0.71
1:AA:2305:A:C8	1:AA:2306:C:C5'	2.73	0.71
1:AA:2417:C:H2'	1:AA:2418:A:H8	1.55	0.71
1:AA:2466:C:H2'	1:AA:2467:C:H6	1.56	0.71
1:AA:2663:G:H2'	1:AA:2664:G:C8	2.25	0.71
1:AA:2697:G:O2'	1:AA:2698:U:H5'	1.91	0.71
1:AA:2780:G:C2'	1:AA:2781:A:H5''	2.21	0.71
4:AD:63:ARG:HG3	4:AD:64:ILE:H	1.53	0.71
4:AD:132:PRO:O	4:AD:133:LEU:C	2.34	0.71
5:AE:41:LYS:O	5:AE:43:GLY:N	2.24	0.71
5:AE:154:LYS:NZ	5:AE:155:LYS:O	2.20	0.71
8:AH:7:LEU:HD22	8:AH:65:HIS:CD2	2.25	0.71
8:AH:107:VAL:HG13	8:AH:152:ARG:HE	1.54	0.71
9:AI:52:PHE:O	9:AI:54:ALA:N	2.22	0.71
10:AJ:55:VAL:HG21	10:AJ:69:THR:HG22	1.73	0.71
12:AL:3:GLN:HE22	12:AL:33:ALA:HB3	0.68	0.71
12:AL:88:ASN:O	12:AL:90:GLN:N	2.24	0.71
12:AL:94:ARG:CG	12:AL:95:GLY:N	2.53	0.71
14:AN:94:VAL:CG2	14:AN:95:ALA:N	2.52	0.71
17:AQ:27:THR:HG22	17:AQ:28:VAL:H	1.55	0.71
19:AS:6:LYS:CB	19:AS:10:LYS:HA	2.12	0.71
21:AU:63:LYS:H	21:AU:72:LYS:CG	2.03	0.71
22:AV:97:ARG:CZ	22:AV:101:LYS:HG2	2.21	0.71
23:AW:56:VAL:O	23:AW:57:ILE:O	2.09	0.71
27:Aa:5:ILE:O	27:Aa:6:HIS:HB2	1.90	0.71
34:BA:192:U:H5'	53:BX:102:GLY:CA	2.21	0.71
34:BA:330:C:O2'	34:BA:331:G:H5'	1.90	0.71
34:BA:1412:C:H2'	34:BA:1413:A:C8	2.26	0.71
36:BG:70:VAL:O	36:BG:105:GLU:HA	1.91	0.71
36:BG:110:ASN:HD21	36:BG:140:ARG:HG2	1.56	0.71
36:BG:146:ALA:O	36:BG:147:LYS:HD2	1.91	0.71
37:BH:139:ARG:HG2	37:BH:140:VAL:N	2.06	0.71
38:BI:37:ARG:HA	38:BI:112:LEU:O	1.89	0.71
39:BJ:46:ARG:HH22	51:BV:37:VAL:CG1	2.03	0.71
39:BJ:52:ILE:HG22	39:BJ:53:ALA:N	2.05	0.71
40:BK:42:ILE:HG22	40:BK:120:ILE:HD11	1.73	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:54:THR:OG1	40:BK:56:GLN:HG2	1.90	0.71
41:BL:47:GLY:O	41:BL:61:VAL:HG13	1.91	0.71
45:BP:61:THR:O	45:BP:62:SER:OG	2.09	0.71
46:BQ:56:LEU:HD13	46:BQ:60:VAL:CG2	2.19	0.71
46:BQ:66:LEU:N	46:BQ:70:LEU:HB2	2.05	0.71
46:BQ:80:ARG:NH2	46:BQ:81:LEU:HB3	2.06	0.71
47:BR:52:GLN:C	47:BR:53:LEU:HD23	2.16	0.71
49:BT:51:VAL:HG21	49:BT:73:LEU:HD11	1.73	0.71
52:BW:40:ILE:O	52:BW:68:GLY:HA2	1.90	0.71
55:CA:102:PHE:CD1	55:CA:132:ARG:NH2	2.59	0.71
55:CA:164:TYR:CD2	55:CA:175:ASP:OD1	2.43	0.71
55:CA:221:ILE:HD12	55:CA:221:ILE:N	2.04	0.71
55:CA:401:GLU:HB3	55:CA:468:THR:H	1.56	0.71
55:CA:512:LEU:CD1	55:CA:518:VAL:HG13	2.19	0.71
1:AA:131:G:H2'	1:AA:132:G:C8	2.26	0.71
1:AA:374:A:H3'	1:AA:375:C:C6	2.26	0.71
1:AA:389:G:H1	13:AM:64:LYS:HG2	1.54	0.71
1:AA:464:U:O2'	30:Ad:12:ARG:NH2	2.23	0.71
1:AA:566:U:O4	1:AA:575:A:N1	2.24	0.71
1:AA:1077:A:C2	10:AJ:133:SER:HA	2.26	0.71
1:AA:1174:A:H2'	1:AA:1174:A:N3	2.06	0.71
1:AA:1203:G:H1	1:AA:1206:G:H1	1.35	0.71
1:AA:1223:C:C2	1:AA:1227:A:N1	2.59	0.71
1:AA:1270:C:O2	1:AA:1325:G:N7	2.24	0.71
1:AA:1273:U:H4'	1:AA:1275:A:P	2.30	0.71
1:AA:1299:G:H1	1:AA:1639:U:H3'	1.54	0.71
1:AA:1517:G:H21	1:AA:1518:C:H1'	1.54	0.71
1:AA:1788:C:N4	1:AA:1789:A:C8	2.59	0.71
1:AA:1798:U:C5'	4:AD:257:LEU:HD12	2.20	0.71
1:AA:2024:G:H2'	1:AA:2025:C:O4'	1.89	0.71
1:AA:2307:G:C5	1:AA:2308:G:H1'	2.26	0.71
1:AA:2371:G:C5'	29:Ac:45:LYS:HB3	2.19	0.71
1:AA:2423:U:O2'	1:AA:2425:A:H3'	1.91	0.71
1:AA:2503:A:O2'	1:AA:2504:U:OP1	2.09	0.71
1:AA:2807:G:N3	1:AA:2807:G:H2'	2.05	0.71
2:AB:43:C:O2	7:AG:95:ARG:NE	2.22	0.71
3:AC:165:ASN:HA	3:AC:170:ALA:O	1.91	0.71
4:AD:12:SER:HA	4:AD:22:SER:O	1.91	0.71
6:AF:34:TRP:CE3	6:AF:34:TRP:HA	2.25	0.71
7:AG:34:LEU:HD13	7:AG:100:TRP:HE1	1.56	0.71
8:AH:43:VAL:CG1	8:AH:44:VAL:N	2.54	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:88:LEU:HD23	8:AH:88:LEU:C	2.16	0.71
13:AM:96:THR:HG22	13:AM:99:LEU:HD12	1.71	0.71
16:AP:75:GLU:O	16:AP:78:LEU:HB3	1.89	0.71
18:AR:92:ARG:HA	18:AR:95:LEU:HG	1.73	0.71
19:AS:20:LEU:CD1	19:AS:68:LYS:HZ3	1.98	0.71
22:AV:77:PRO:HG2	22:AV:78:ALA:H	1.56	0.71
26:AZ:50:VAL:CG1	26:AZ:53:LEU:HD12	2.16	0.71
26:AZ:51:ALA:O	26:AZ:53:LEU:N	2.22	0.71
34:BA:26:A:H61	34:BA:558:G:C2'	2.03	0.71
34:BA:95:G:C2	34:BA:96:G:H1'	2.25	0.71
34:BA:191(C):G:H2'	34:BA:191(D):U:H6	1.54	0.71
34:BA:266:G:C3'	50:BU:67:LYS:HD2	2.13	0.71
34:BA:578:C:O2'	34:BA:728:A:N3	2.22	0.71
34:BA:842:C:H4'	34:BA:848:C:N3	2.05	0.71
34:BA:958:A:C5	52:BW:56:GLN:NE2	2.54	0.71
34:BA:1466:C:O3'	34:BA:1467:G:O4'	2.09	0.71
34:BA:1516:G:N2	34:BA:1518:A:O5'	2.23	0.71
36:BG:85:ARG:HH21	36:BG:89:GLU:CB	2.01	0.71
36:BG:122:GLU:HA	36:BG:125:GLU:CG	2.19	0.71
37:BH:13:ARG:HH11	37:BH:36:ARG:HB2	1.56	0.71
38:BI:78:HIS:NE2	38:BI:142:LEU:HB3	2.06	0.71
39:BJ:8:ILE:HG22	39:BJ:88:VAL:HA	1.70	0.71
41:BL:120:THR:N	41:BL:123:GLU:OE1	2.23	0.71
45:BP:68:ALA:HB1	45:BP:98:TYR:O	1.91	0.71
46:BQ:16:ASP:N	46:BQ:34:LEU:CD2	2.50	0.71
47:BR:27:CYS:SG	47:BR:43:CYS:N	2.63	0.71
48:BS:16:ALA:CB	48:BS:21:ASP:HB3	2.17	0.71
55:CA:236:GLN:HG2	55:CA:246:THR:O	1.90	0.71
55:CA:382:VAL:HG22	55:CA:578:VAL:CG1	2.20	0.71
55:CA:431:PRO:HA	55:CA:437:VAL:HG23	1.73	0.71
55:CA:580:VAL:HB	55:CA:585:ILE:HD13	1.73	0.71
1:AA:323:G:N2	1:AA:333:G:H1'	2.06	0.71
1:AA:411:G:N2	1:AA:2407:G:C6	2.59	0.71
1:AA:572:A:N7	1:AA:573:G:C6	2.59	0.71
1:AA:603:A:H2'	1:AA:604:G:H8	1.54	0.71
1:AA:686:G:H5''	1:AA:686:G:N3	2.05	0.71
1:AA:720:C:H2'	1:AA:721:C:H6	1.56	0.71
1:AA:1205:U:O2'	1:AA:1206:G:N7	2.24	0.71
1:AA:1212:G:O2'	1:AA:1213:A:H8	1.74	0.71
1:AA:1488:G:C3'	1:AA:1489:U:H5'	2.21	0.71
1:AA:1665:A:H5'	12:AL:66:LYS:HD3	1.71	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1672:C:C5	1:AA:1673:U:C6	2.79	0.71
1:AA:1799:G:H8	4:AD:268:ARG:HH12	1.39	0.71
1:AA:2077:A:H1'	1:AA:2434:A:O2'	1.91	0.71
1:AA:2331:G:H2'	1:AA:2332:U:O4'	1.90	0.71
1:AA:2415:G:H5''	13:AM:61:ARG:CG	2.21	0.71
1:AA:2756:U:H5'	32:Af:18:ARG:O	1.90	0.71
1:AA:2839:G:H2'	1:AA:2840:C:H6	1.54	0.71
5:AE:91:VAL:HG23	5:AE:180:ASN:OD1	1.91	0.71
8:AH:164:TYR:CE2	8:AH:167:GLU:HG2	2.26	0.71
10:AJ:19:PRO:CD	10:AJ:38:VAL:H	1.94	0.71
11:AK:71:ILE:O	11:AK:85:ILE:HD12	1.91	0.71
12:AL:49:ARG:NH2	34:BA:1423:G:H5''	2.06	0.71
14:AN:32:TYR:CE1	14:AN:106:VAL:HG23	2.25	0.71
14:AN:97:VAL:C	14:AN:98:LYS:HE2	2.15	0.71
16:AP:17:ARG:NH1	16:AP:89:ARG:HB2	2.04	0.71
17:AQ:26:ASP:HA	17:AQ:100:TYR:CE1	2.24	0.71
19:AS:5:VAL:CG1	19:AS:37:VAL:HG22	2.20	0.71
26:AZ:16:PRO:HG2	26:AZ:19:GLN:HB3	1.73	0.71
34:BA:264:U:H2'	50:BU:64:PRO:HB2	1.73	0.71
34:BA:517:G:H22	34:BA:533:A:P	2.13	0.71
34:BA:970:C:H5''	34:BA:971:G:OP1	1.90	0.71
34:BA:1108:G:H2'	34:BA:1109:C:C6	2.26	0.71
34:BA:1125:U:C4	43:BN:5:ARG:NH2	2.57	0.71
34:BA:1192:C:C6	34:BA:1192:C:C3'	2.69	0.71
34:BA:1317:C:HO2'	34:BA:1318:A:H5'	0.89	0.71
34:BA:1349:A:H2'	34:BA:1350:A:H8	1.56	0.71
35:BF:132:LYS:H	35:BF:132:LYS:CE	2.03	0.71
36:BG:91:LEU:HD11	36:BG:99:VAL:H	1.55	0.71
37:BH:127:THR:O	37:BH:146:ILE:HG22	1.91	0.71
37:BH:148:VAL:HG21	37:BH:162:LEU:CD1	2.20	0.71
38:BI:9:LYS:HG3	38:BI:112:LEU:HG	1.73	0.71
38:BI:147:ASP:HA	38:BI:150:ARG:CB	2.20	0.71
39:BJ:68:PRO:HB2	39:BJ:71:ARG:HG3	1.71	0.71
40:BK:35:LYS:HZ1	40:BK:38:LEU:HD22	1.55	0.71
41:BL:114:THR:HA	41:BL:131:GLY:HA3	1.72	0.71
42:BM:71:SER:HA	42:BM:74:ILE:HD12	1.72	0.71
43:BN:31:GLY:HA3	43:BN:74:ILE:HG21	1.72	0.71
52:BW:40:ILE:HB	52:BW:67:VAL:O	1.91	0.71
55:CA:56:ILE:O	55:CA:71:ASN:HA	1.90	0.71
55:CA:446:ARG:HG3	55:CA:480:VAL:CG1	2.19	0.71
1:AA:452:G:N1	1:AA:458:G:C2	2.59	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:513:A:C6	1:AA:514:A:N7	2.59	0.70
1:AA:648:G:N3	1:AA:649:G:C8	2.59	0.70
1:AA:792:G:C5	1:AA:2440:C:C2	2.79	0.70
1:AA:1024:G:C2	1:AA:1025:G:N7	2.59	0.70
1:AA:1263:U:H4'	28:Ab:10:LYS:CG	2.21	0.70
1:AA:1274:A:C2	1:AA:1302:A:H2	2.08	0.70
1:AA:1473:G:H2'	1:AA:1474:C:H6	1.56	0.70
1:AA:1543:A:H5''	1:AA:1544:C:OP2	1.90	0.70
1:AA:1617:C:OP2	1:AA:1617:C:C4'	2.38	0.70
1:AA:2090:G:C6	1:AA:2230:G:O6	2.44	0.70
1:AA:2278:A:N7	24:AX:14:ARG:HB3	2.06	0.70
1:AA:2286:A:O3'	1:AA:2287:A:O4'	2.09	0.70
1:AA:2299:G:O2'	1:AA:2300:G:H5'	1.90	0.70
2:AB:114:G:O4'	16:AP:47:THR:HB	1.91	0.70
3:AC:14:VAL:HG12	3:AC:16:PRO:HD3	1.73	0.70
3:AC:68:LEU:HD22	3:AC:157:LYS:HA	1.71	0.70
4:AD:5:LYS:HB2	4:AD:82:ILE:HD12	1.73	0.70
5:AE:119:ARG:HD2	5:AE:156:MET:H	1.55	0.70
7:AG:17:PRO:HA	7:AG:20:ILE:HB	1.73	0.70
7:AG:148:MET:HB3	7:AG:151:ALA:HB2	1.72	0.70
8:AH:60:ARG:HG2	8:AH:64:LEU:HD12	1.72	0.70
10:AJ:35:MET:O	10:AJ:36:GLU:HG2	1.91	0.70
10:AJ:72:PRO:HG2	10:AJ:77:LEU:HB2	1.69	0.70
11:AK:17:ASP:HB3	11:AK:21:LYS:CE	2.21	0.70
15:AO:97:VAL:C	15:AO:98:LEU:HG	2.14	0.70
16:AP:33:LYS:HG2	16:AP:54:LEU:HD11	1.72	0.70
17:AQ:3:ARG:O	17:AQ:4:GLY:C	2.34	0.70
18:AR:74:LEU:HB3	18:AR:78:THR:OG1	1.91	0.70
18:AR:114:LYS:CG	18:AR:115:ALA:N	2.54	0.70
20:AT:36:LEU:HD11	20:AT:47:VAL:HG21	1.71	0.70
20:AT:72:LYS:HB3	20:AT:108:GLY:HA3	1.72	0.70
20:AT:72:LYS:O	20:AT:73:ALA:O	2.09	0.70
23:AW:102:LEU:HD22	23:AW:137:ILE:HB	1.72	0.70
34:BA:34:C:H2'	34:BA:35:G:H8	1.55	0.70
34:BA:397:A:C2	34:BA:548:G:O6	2.43	0.70
34:BA:507:C:H2'	34:BA:508:C:H5	1.54	0.70
34:BA:517:G:H5'	34:BA:519:C:N4	2.06	0.70
34:BA:692:U:H2'	34:BA:694:A:OP2	1.91	0.70
34:BA:1013:G:H2'	34:BA:1015:A:OP2	1.91	0.70
34:BA:1043:C:H2'	34:BA:1044:A:O4'	1.91	0.70
34:BA:1221:G:H5'	52:BW:52:TYR:O	1.91	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1226:C:H42	46:BQ:104:ARG:HE	1.38	0.70
34:BA:1333:A:O2'	34:BA:1334:G:H5'	1.91	0.70
34:BA:1414:U:N1	34:BA:1487:G:N2	2.38	0.70
35:BF:115:LEU:HD13	35:BF:145:LEU:CG	2.21	0.70
35:BF:164:VAL:HG12	35:BF:186:ALA:CB	2.21	0.70
37:BH:141:ARG:O	37:BH:143:GLY:N	2.24	0.70
38:BI:81:GLU:CB	38:BI:90:VAL:HG22	2.21	0.70
38:BI:105:VAL:CG2	38:BI:132:ALA:HB2	2.21	0.70
40:BK:63:LYS:HE2	40:BK:63:LYS:CA	2.21	0.70
41:BL:113:SER:HA	41:BL:117:GLY:O	1.90	0.70
44:BO:111:ASP:CG	44:BO:113:PRO:HD3	2.16	0.70
45:BP:48:PRO:HG2	45:BP:49:ASN:H	1.56	0.70
50:BU:22:LEU:HD21	50:BU:39:SER:OG	1.91	0.70
50:BU:75:ARG:HH12	50:BU:77:VAL:HG22	1.55	0.70
55:CA:289:CYS:CB	55:CA:294:VAL:HG11	2.20	0.70
1:AA:270(Q):C:O2'	1:AA:270(R):G:H5'	1.91	0.70
1:AA:281:G:N2	1:AA:283:A:C5'	2.54	0.70
1:AA:535:C:C5'	18:AR:49:HIS:HB3	2.20	0.70
1:AA:601:C:C1'	6:AF:104:LYS:HZ3	2.03	0.70
1:AA:716:A:H1'	48:BS:44:LYS:CE	2.20	0.70
1:AA:760:G:H2'	1:AA:761:A:H5'	1.71	0.70
1:AA:993:G:H1'	19:AS:91:TYR:HE1	1.54	0.70
1:AA:1014:U:C2'	1:AA:1015:G:H5'	2.20	0.70
1:AA:1081:U:C6	1:AA:1082:U:C5	2.79	0.70
1:AA:1292:U:O2'	1:AA:1293:C:H5'	1.91	0.70
1:AA:1483:G:N3	1:AA:1483:G:H2'	2.06	0.70
1:AA:1774:C:C6	1:AA:1775:U:C5	2.71	0.70
1:AA:1916:A:H2'	1:AA:1916:A:N3	2.05	0.70
1:AA:2104:G:N2	1:AA:2105:C:C2	2.59	0.70
1:AA:2468:G:H4'	14:AN:120:ILE:HD13	1.73	0.70
1:AA:2810:A:O2'	5:AE:61:ARG:NH1	2.24	0.70
2:AB:30:C:H1'	2:AB:58:A:C2	2.26	0.70
3:AC:41:VAL:HG22	3:AC:216:THR:CG2	2.20	0.70
4:AD:92:ILE:HA	4:AD:107:ALA:HB2	1.72	0.70
5:AE:5:LEU:CD2	5:AE:196:VAL:HB	2.21	0.70
5:AE:91:VAL:HG22	5:AE:93:VAL:N	2.06	0.70
5:AE:152:LYS:HD2	5:AE:152:LYS:O	1.91	0.70
5:AE:176:ILE:HG23	5:AE:176:ILE:O	1.91	0.70
6:AF:34:TRP:CE3	6:AF:37:VAL:HG21	2.26	0.70
7:AG:37:VAL:O	7:AG:99:MET:SD	2.49	0.70
12:AL:10:VAL:HG23	12:AL:83:ALA:O	1.90	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:106:LEU:HD12	12:AL:107:ARG:N	2.06	0.70
13:AM:13:ASN:ND2	13:AM:14:LYS:H	1.87	0.70
13:AM:77:ARG:O	13:AM:81:GLN:HG3	1.90	0.70
14:AN:99:PRO:O	14:AN:100:GLY:C	2.33	0.70
15:AO:105:ARG:HA	15:AO:105:ARG:NE	2.05	0.70
16:AP:31:SER:HB3	16:AP:34:HIS:CD2	2.27	0.70
16:AP:54:LEU:HG	16:AP:56:LEU:HD22	1.74	0.70
18:AR:61:TRP:O	18:AR:65:ILE:HG12	1.92	0.70
19:AS:36:PRO:CA	19:AS:61:VAL:HG22	2.20	0.70
20:AT:16:LYS:N	20:AT:16:LYS:NZ	2.37	0.70
29:Ac:48:VAL:O	29:Ac:49:HIS:HB2	1.91	0.70
34:BA:51:A:C6	34:BA:353:A:C2	2.79	0.70
34:BA:447:G:H8	34:BA:447:G:O5'	1.74	0.70
34:BA:1117:G:O6	34:BA:1184:G:C6	2.42	0.70
34:BA:1117:G:N3	34:BA:1184:G:C4	2.59	0.70
34:BA:1129:C:OP1	42:BM:16:ARG:NH1	2.24	0.70
34:BA:1260:C:H4'	34:BA:1284:C:H5''	1.72	0.70
34:BA:1274:G:H22	34:BA:1275:A:H62	1.38	0.70
34:BA:1318:A:C2'	52:BW:37:ARG:H	2.01	0.70
34:BA:1428:A:H2'	34:BA:1429:C:H6	1.53	0.70
34:BA:1454:G:HO2'	34:BA:1455:G:H8	1.39	0.70
34:BA:1455:G:C4'	53:BX:31:SER:HG	2.00	0.70
35:BF:12:GLU:O	35:BF:14:GLY:N	2.22	0.70
36:BG:113:ALA:HB2	36:BG:202:ILE:HG13	1.74	0.70
37:BH:15:GLU:HG2	37:BH:63:LYS:CB	2.20	0.70
37:BH:144:ASP:C	37:BH:184:LYS:HD3	2.16	0.70
38:BI:133:TYR:HD2	38:BI:136:MET:HG3	1.56	0.70
38:BI:145:LYS:HA	38:BI:148:VAL:HG23	1.73	0.70
39:BJ:14:LEU:HD12	39:BJ:15:ASP:O	1.91	0.70
41:BL:14:ARG:HD2	41:BL:15:ASN:N	2.05	0.70
41:BL:36:LEU:HA	41:BL:39:LEU:HB2	1.73	0.70
42:BM:45:ALA:HB3	42:BM:74:ILE:CG2	2.21	0.70
45:BP:68:ALA:HB1	45:BP:99:HIS:HA	1.73	0.70
46:BQ:14:ARG:CB	46:BQ:41:PRO:C	2.47	0.70
1:AA:64:A:H2'	1:AA:65:C:H5'	1.72	0.70
1:AA:172:C:C4	1:AA:173:G:C5	2.79	0.70
1:AA:247:G:H22	31:Ae:8:LYS:CD	2.04	0.70
1:AA:297:C:N4	1:AA:298:G:C2	2.59	0.70
1:AA:312:G:H3'	1:AA:313:C:H5	1.55	0.70
1:AA:418:G:O2'	1:AA:419:C:H5'	1.91	0.70
1:AA:498:G:H8	1:AA:498:G:O5'	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1213:A:H61	1:AA:1236:G:H1'	1.56	0.70
1:AA:1580:A:H2'	1:AA:1581:G:C8	2.26	0.70
1:AA:1695:G:C2'	1:AA:1696:G:H5'	2.21	0.70
1:AA:1730:U:O2'	1:AA:1731:G:C5	2.44	0.70
1:AA:1735:C:N4	1:AA:1741:C:N4	2.39	0.70
1:AA:2344:U:H3'	1:AA:2344:U:O2	1.91	0.70
3:AC:6:ARG:NH1	3:AC:7:TYR:HA	2.06	0.70
3:AC:64:LEU:HD23	3:AC:191:ALA:CB	2.20	0.70
3:AC:100:ILE:HD11	3:AC:123:VAL:CG2	2.20	0.70
3:AC:182:PRO:HG2	3:AC:183:GLU:CD	2.16	0.70
4:AD:37:LEU:CD1	4:AD:63:ARG:HA	2.21	0.70
4:AD:178:PRO:O	4:AD:180:GLY:N	2.25	0.70
5:AE:4:ILE:O	5:AE:4:ILE:HG13	1.90	0.70
7:AG:20:ILE:HG21	7:AG:28:VAL:HG13	1.72	0.70
7:AG:37:VAL:HG22	7:AG:159:VAL:HG12	1.72	0.70
7:AG:62:LEU:HD23	7:AG:143:GLU:HB2	1.71	0.70
8:AH:11:VAL:HB	8:AH:50:VAL:CG2	2.21	0.70
8:AH:156:ALA:HA	8:AH:171:LEU:CD2	2.21	0.70
9:AI:51:LEU:N	9:AI:90:ALA:HB2	2.06	0.70
11:AK:67:LEU:H	11:AK:87:LEU:HD22	1.55	0.70
14:AN:6:ARG:HG2	14:AN:70:PRO:HB3	1.72	0.70
14:AN:45:GLN:O	14:AN:48:GLU:N	2.24	0.70
14:AN:46:GLN:OE1	14:AN:126:PRO:HB3	1.90	0.70
15:AO:26:LYS:HA	15:AO:29:LEU:HD12	1.72	0.70
16:AP:9:ARG:HH11	16:AP:9:ARG:N	1.88	0.70
17:AQ:108:ARG:H	17:AQ:108:ARG:HH11	1.39	0.70
20:AT:90:ARG:HH11	20:AT:90:ARG:N	1.89	0.70
23:AW:49:ARG:O	23:AW:50:GLN:C	2.34	0.70
23:AW:157:LEU:CD1	23:AW:161:VAL:HG13	2.20	0.70
24:AX:53:MET:HE1	24:AX:59:LEU:HG	1.73	0.70
31:Ae:30:ARG:O	31:Ae:32:LEU:HG	1.91	0.70
34:BA:716:A:H1'	44:BO:118:GLY:CA	2.18	0.70
34:BA:858:G:H22	34:BA:870:U:P	2.15	0.70
34:BA:888:G:H21	34:BA:909:A:H62	0.75	0.70
34:BA:893:C:O2'	34:BA:894:G:H5'	1.92	0.70
34:BA:1306:A:H2'	34:BA:1307:U:O4'	1.91	0.70
34:BA:1403:C:O2'	34:BA:1499:A:N6	2.24	0.70
34:BA:1520:G:H2'	34:BA:1521:G:H8	1.57	0.70
35:BF:24:TRP:CZ3	35:BF:26:PRO:HA	2.27	0.70
35:BF:82:ARG:HD2	35:BF:92:TYR:HH	1.56	0.70
35:BF:175:ARG:HA	35:BF:178:ARG:CG	2.21	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:30:ARG:HG2	36:BG:31:HIS:N	2.04	0.70
37:BH:50:ARG:HG2	37:BH:51:PRO:CD	2.17	0.70
37:BH:74:GLN:CA	37:BH:77:ASN:HD22	1.96	0.70
43:BN:68:HIS:HB3	43:BN:70:ARG:NH2	2.05	0.70
43:BN:82:ILE:HG23	43:BN:86:MET:SD	2.31	0.70
43:BN:84:GLN:HA	43:BN:88:LEU:HD12	1.73	0.70
44:BO:32:ILE:HD12	44:BO:41:THR:OG1	1.91	0.70
46:BQ:16:ASP:CA	46:BQ:34:LEU:HD12	2.03	0.70
46:BQ:108:ARG:HD2	46:BQ:108:ARG:N	2.05	0.70
51:BV:18:ARG:NH2	51:BV:21:LYS:HD3	2.05	0.70
52:BW:9:VAL:HA	52:BW:41:VAL:CB	2.21	0.70
55:CA:5:LEU:CB	55:CA:268:ALA:HB1	2.21	0.70
55:CA:211:GLN:HB2	55:CA:223:ILE:CG2	2.21	0.70
55:CA:390:ARG:HB3	55:CA:391:GLU:CB	2.21	0.70
55:CA:497:VAL:HA	55:CA:514:HIS:ND1	2.01	0.70
1:AA:6:A:N3	1:AA:2897:U:O2	2.23	0.70
1:AA:95:G:O2'	25:AY:42:ASN:HB2	1.91	0.70
1:AA:343:C:H2'	1:AA:344:G:C5'	2.21	0.70
1:AA:373:U:H4'	1:AA:374:A:C8	2.25	0.70
1:AA:534:U:H2'	1:AA:535:C:C5	2.26	0.70
1:AA:558:G:OP1	11:AK:111:PRO:HG2	1.91	0.70
1:AA:750:A:OP1	20:AT:88:ARG:NH2	2.24	0.70
1:AA:871:U:H2'	1:AA:872:A:H8	1.56	0.70
1:AA:915:C:H2'	1:AA:916:G:H8	1.57	0.70
1:AA:1175:U:H5'	1:AA:1176:G:OP2	1.91	0.70
1:AA:1479:G:N2	1:AA:1515:C:C2	2.60	0.70
1:AA:1617:C:H5'	1:AA:1618:A:OP2	1.91	0.70
1:AA:1819:A:P	4:AD:157:ARG:HA	2.31	0.70
1:AA:1887:C:O2'	1:AA:2190:G:O2'	2.10	0.70
1:AA:1913:A:H5'	1:AA:1914:C:OP1	1.91	0.70
1:AA:1935:G:H2'	1:AA:1962:C:H42	1.53	0.70
1:AA:1936:A:C1'	1:AA:1940:U:C4	2.75	0.70
1:AA:2014:A:H8	1:AA:2014:A:O5'	1.74	0.70
1:AA:2208:U:H2'	1:AA:2209:C:H5'	1.72	0.70
1:AA:2618:G:C2	1:AA:2619:C:C6	2.80	0.70
2:AB:27:C:H3'	2:AB:28:C:C6	2.26	0.70
2:AB:77:U:H2'	2:AB:78:A:H8	1.57	0.70
3:AC:22:ILE:HD12	3:AC:190:ARG:NH2	2.05	0.70
4:AD:177:LEU:HD11	4:AD:268:ARG:CZ	2.20	0.70
5:AE:13:ARG:HE	5:AE:21:VAL:C	1.99	0.70
5:AE:46:ALA:HB2	5:AE:85:ASN:HD21	1.57	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:39:ILE:HG13	7:AG:157:ILE:CD1	2.21	0.70
7:AG:40:ASN:ND2	7:AG:41:GLN:H	1.89	0.70
8:AH:35:VAL:HG12	8:AH:71:LEU:HD23	1.72	0.70
8:AH:119:GLU:C	8:AH:121:ILE:H	1.99	0.70
10:AJ:104:VAL:HG11	10:AJ:127:ILE:CD1	1.35	0.70
12:AL:6:THR:HA	12:AL:7:TYR:HD1	1.55	0.70
12:AL:106:LEU:O	12:AL:109:LYS:HA	1.90	0.70
13:AM:77:ARG:HG2	13:AM:79:ARG:HB3	1.73	0.70
14:AN:56:ARG:NH2	14:AN:57:HIS:HB2	2.05	0.70
14:AN:130:LYS:HZ1	14:AN:132:VAL:CG1	2.04	0.70
15:AO:61:HIS:O	15:AO:64:ARG:HD3	1.91	0.70
19:AS:62:LEU:HB2	19:AS:64:HIS:ND1	2.05	0.70
23:AW:2:GLU:OE1	23:AW:58:VAL:CB	2.37	0.70
32:Af:25:VAL:HG11	32:Af:34:GLN:NE2	2.05	0.70
34:BA:168:G:N1	34:BA:169:C:N4	2.40	0.70
34:BA:973:G:N2	34:BA:974:A:C6	2.58	0.70
34:BA:1104:G:H2'	34:BA:1105:A:H8	1.57	0.70
34:BA:1129:C:H1'	34:BA:1130:A:N7	2.06	0.70
34:BA:1203:C:O2'	34:BA:1204:A:H5'	1.91	0.70
35:BF:59:GLU:HB3	35:BF:221:LEU:CD2	2.17	0.70
35:BF:118:LEU:CD2	35:BF:142:LEU:HB2	2.21	0.70
36:BG:28:GLN:HA	36:BG:30:ARG:CZ	2.21	0.70
36:BG:42:LEU:HD12	36:BG:94:LEU:HD12	1.72	0.70
37:BH:78:LEU:HD21	37:BH:96:LEU:HD22	1.73	0.70
38:BI:20:GLN:HE22	38:BI:21:ALA:HB3	1.56	0.70
38:BI:94:ALA:HB2	38:BI:119:LEU:HD21	1.73	0.70
39:BJ:7:ASN:ND2	39:BJ:62:TRP:CD1	2.58	0.70
39:BJ:62:TRP:CZ2	39:BJ:64:GLN:HB2	2.26	0.70
41:BL:78:GLN:HG3	41:BL:80:ILE:O	1.89	0.70
44:BO:85:ARG:HE	44:BO:111:ASP:HB3	1.55	0.70
45:BP:82:VAL:O	45:BP:106:ASP:HB2	1.91	0.70
46:BQ:64:TRP:C	46:BQ:65:LYS:HD3	2.16	0.70
49:BT:51:VAL:CG2	49:BT:73:LEU:HD11	2.22	0.70
51:BV:46:GLU:H	51:BV:49:LYS:NZ	1.89	0.70
55:CA:102:PHE:HB3	55:CA:132:ARG:NH1	2.06	0.70
1:AA:174:C:C2'	1:AA:175:G:H5'	2.21	0.70
1:AA:211:A:H2'	1:AA:212:G:O4'	1.92	0.70
1:AA:282:A:H2'	1:AA:284:U:OP1	1.91	0.70
1:AA:332:A:H4'	1:AA:333:G:OP1	1.90	0.70
1:AA:573:G:H5'	1:AA:576:U:O4	1.91	0.70
1:AA:586:A:C6	1:AA:1254:A:C2	2.78	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:609:A:H61	1:AA:619:G:N2	1.89	0.70
1:AA:720:C:O2'	1:AA:721:C:H5'	1.91	0.70
1:AA:801:G:N7	6:AF:54:ARG:HG2	2.06	0.70
1:AA:864:G:H2'	1:AA:865:C:H1'	1.73	0.70
1:AA:1080:C:O2	10:AJ:129:GLY:HA3	1.88	0.70
1:AA:1158:C:C4'	26:AZ:32:GLN:HE21	2.01	0.70
1:AA:1182:A:C3'	1:AA:1183:G:H3'	2.19	0.70
1:AA:1340:U:HO2'	1:AA:1394:U:HO2'	1.38	0.70
1:AA:1417:C:N3	1:AA:1581:G:N2	2.40	0.70
1:AA:1475:G:H1	1:AA:1477:A:H61	1.33	0.70
1:AA:1996:C:C2'	5:AE:123:ALA:HB3	2.22	0.70
1:AA:2031:A:N6	1:AA:2498:C:C2	2.59	0.70
1:AA:2127:G:O2'	1:AA:2128:C:H5'	1.91	0.70
1:AA:2225:A:H4'	1:AA:2226:C:O5'	1.90	0.70
1:AA:2484:G:C2'	1:AA:2485:G:H5'	2.22	0.70
1:AA:2549:G:O2'	1:AA:2550:G:H5'	1.92	0.70
1:AA:2651:C:C4	1:AA:2670:A:N6	2.59	0.70
1:AA:2721:A:H2'	1:AA:2722:G:C8	2.26	0.70
3:AC:47:LEU:HD12	3:AC:208:PHE:CZ	2.26	0.70
4:AD:54:ARG:HB3	4:AD:218:ARG:HB3	1.72	0.70
4:AD:226:MET:CE	4:AD:237:GLU:O	2.39	0.70
5:AE:15:PHE:CD2	5:AE:16:ARG:HG3	2.27	0.70
5:AE:49:LEU:CA	5:AE:76:ARG:O	2.38	0.70
10:AJ:81:ALA:O	10:AJ:99:ILE:HG21	1.89	0.70
12:AL:8:LEU:HD13	12:AL:9:GLU:O	1.92	0.70
12:AL:67:LYS:HE2	12:AL:67:LYS:CA	2.21	0.70
15:AO:97:VAL:CA	15:AO:114:VAL:HG13	2.20	0.70
16:AP:53:SER:O	16:AP:55:ALA:N	2.23	0.70
18:AR:8:VAL:HG23	18:AR:9:VAL:N	1.97	0.70
22:AV:72:VAL:HG11	22:AV:96:ILE:HG21	1.71	0.70
23:AW:28:MET:HE1	23:AW:88:PHE:HB2	1.72	0.70
23:AW:78:LYS:HB3	23:AW:78:LYS:HZ2	1.56	0.70
27:Aa:58:ARG:N	27:Aa:61:ARG:NH1	2.39	0.70
27:Aa:64:GLY:O	27:Aa:68:ARG:CZ	2.40	0.70
28:Ab:12:SER:O	28:Ab:13:LYS:C	2.31	0.70
29:Ac:30:THR:O	29:Ac:32:ASN:N	2.24	0.70
31:Ae:60:LEU:HD21	31:Ae:64:TYR:O	1.91	0.70
32:Af:10:ILE:H	32:Af:14:CYS:HB2	1.56	0.70
34:BA:421:U:H5''	34:BA:422:C:OP2	1.92	0.70
34:BA:452:A:H2'	34:BA:453:A:C8	2.26	0.70
34:BA:489:C:H2'	34:BA:490:G:C8	2.27	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:668:G:HO2'	48:BS:46:HIS:CE1	2.09	0.70
34:BA:719:C:H3'	34:BA:720:C:C6	2.26	0.70
34:BA:958:A:C1'	52:BW:55:LYS:HZ3	1.96	0.70
34:BA:959:A:C3'	34:BA:960:U:H5''	2.18	0.70
34:BA:1117:G:C2	34:BA:1184:G:C8	2.79	0.70
34:BA:1164:G:C6	34:BA:1165:C:N3	2.60	0.70
34:BA:1216:G:H2'	34:BA:1217:C:H6	1.55	0.70
34:BA:1416:G:H2'	34:BA:1417:G:H8	1.55	0.70
35:BF:72:GLY:HA3	35:BF:81:VAL:HG21	1.71	0.70
35:BF:132:LYS:O	35:BF:135:GLN:HB2	1.90	0.70
36:BG:142:MET:HE3	36:BG:143:GLU:CA	2.21	0.70
37:BH:13:ARG:C	37:BH:40:PRO:HD3	2.17	0.70
37:BH:20:TYR:CA	37:BH:26:CYS:O	2.39	0.70
37:BH:61:LYS:N	37:BH:203:VAL:HG22	2.06	0.70
37:BH:145:GLU:HG2	37:BH:184:LYS:HE2	1.72	0.70
37:BH:152:SER:O	37:BH:158:ILE:HG13	1.91	0.70
37:BH:177:ASP:OD1	37:BH:179:GLU:HB3	1.91	0.70
40:BK:69:VAL:HG11	40:BK:104:LEU:CG	2.20	0.70
41:BL:68:ARG:CZ	41:BL:74:PRO:HB3	2.21	0.70
45:BP:27:LEU:HB2	45:BP:64:TYR:OH	1.90	0.70
46:BQ:80:ARG:CB	52:BW:65:ASN:ND2	2.53	0.70
49:BT:20:VAL:HA	49:BT:36:ILE:HG12	1.72	0.70
55:CA:305:PRO:CD	55:CA:346:ARG:HG3	2.20	0.70
1:AA:37:C:H4'	1:AA:451:C:OP1	1.91	0.70
1:AA:231:C:H42	1:AA:232:G:N2	1.87	0.70
1:AA:253:C:H2'	1:AA:254:G:C5'	2.22	0.70
1:AA:280:C:H5''	1:AA:282:A:OP1	1.91	0.70
1:AA:455:C:O2'	1:AA:456:C:H5'	1.92	0.70
1:AA:526:A:H5''	1:AA:527:C:OP2	1.91	0.70
1:AA:595:C:H2'	1:AA:596:G:H8	1.56	0.70
1:AA:636:G:H4'	1:AA:638:G:O2'	1.92	0.70
1:AA:774:A:O2'	1:AA:775:G:O5'	2.10	0.70
1:AA:839:U:H2'	1:AA:840:C:H6	1.56	0.70
1:AA:892:G:N3	1:AA:893:C:C4	2.60	0.70
1:AA:957:A:C2	1:AA:2459:A:H5''	2.27	0.70
1:AA:979:G:N7	1:AA:981:A:OP1	2.25	0.70
1:AA:1064:C:H2'	1:AA:1065:U:H5'	1.72	0.70
1:AA:1142(A):A:C6	1:AA:1143:A:C8	2.79	0.70
1:AA:1160:G:H2'	1:AA:1161:C:C5	2.26	0.70
1:AA:1332:G:C4	1:AA:1609:A:N1	2.59	0.70
1:AA:1534:G:N2	1:AA:1537:C:H41	1.88	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1567:A:H2'	1:AA:1567:A:N3	2.05	0.70
1:AA:1907:G:C6	56:AA:3001:NMY:H81	2.23	0.70
1:AA:1955:U:C3'	1:AA:1956:U:H5	2.05	0.70
1:AA:2051:A:C6	1:AA:2614:A:C5	2.79	0.70
1:AA:2111:C:OP2	1:AA:2111:C:C6	2.44	0.70
1:AA:2134:A:H2'	1:AA:2135:A:C5'	2.22	0.70
1:AA:2355:C:H1'	24:AX:39:ARG:HH21	1.57	0.70
1:AA:2522:U:H5'	1:AA:2523:G:OP2	1.91	0.70
1:AA:2636:U:OP1	5:AE:79:ARG:N	2.20	0.70
1:AA:2656:U:H2'	1:AA:2657:A:C5'	2.21	0.70
3:AC:30:LYS:HZ1	3:AC:182:PRO:HD3	1.55	0.70
3:AC:42:GLU:OE2	3:AC:174:PRO:HB3	1.91	0.70
3:AC:103:ILE:HD12	3:AC:127:LEU:HD11	1.74	0.70
3:AC:162:GLU:CG	3:AC:163:PHE:H	2.02	0.70
4:AD:8:PRO:HG2	4:AD:26:LYS:HG3	1.73	0.70
4:AD:230:ASP:O	4:AD:231:HIS:C	2.33	0.70
4:AD:261:LYS:O	4:AD:263:ARG:N	2.24	0.70
5:AE:13:ARG:NH1	5:AE:20:ALA:CB	2.49	0.70
5:AE:119:ARG:CD	5:AE:155:LYS:HB3	2.21	0.70
6:AF:171:PRO:O	6:AF:173:VAL:N	2.25	0.70
8:AH:157:TYR:HD1	8:AH:158:HIS:N	1.90	0.70
12:AL:85:VAL:HG12	12:AL:93:PRO:HB3	1.74	0.70
13:AM:107:LYS:HZ1	13:AM:110:TYR:CB	2.02	0.70
14:AN:56:ARG:HD2	14:AN:57:HIS:N	2.07	0.70
14:AN:134:ARG:NH2	14:AN:137:TYR:N	2.40	0.70
14:AN:134:ARG:HG3	14:AN:134:ARG:NH1	2.06	0.70
16:AP:33:LYS:HG2	16:AP:54:LEU:CD1	2.21	0.70
17:AQ:6:LEU:CD2	17:AQ:7:ILE:HG23	2.21	0.70
19:AS:4:ILE:N	19:AS:4:ILE:HD12	2.06	0.70
19:AS:18:LEU:HD12	19:AS:66:ARG:NH1	2.06	0.70
21:AU:54:VAL:C	21:AU:55:ASN:HD22	1.99	0.70
21:AU:73:ARG:CG	21:AU:74:PRO:HD2	2.22	0.70
23:AW:96:VAL:O	23:AW:128:VAL:HA	1.92	0.70
25:AY:6:GLU:C	25:AY:10:LYS:HE2	2.16	0.70
27:Aa:20:ASN:CB	27:Aa:30:GLU:CD	2.64	0.70
28:Ab:13:LYS:H	28:Ab:13:LYS:CD	1.96	0.70
28:Ab:41:PRO:O	28:Ab:42:PRO:O	2.09	0.70
29:Ac:22:ALA:HB1	29:Ac:39:TYR:CE2	2.26	0.70
31:Ae:12:LYS:O	31:Ae:13:ARG:C	2.34	0.70
34:BA:120:A:N7	34:BA:122:G:C6	2.58	0.70
34:BA:129(A):G:O2'	34:BA:130:A:OP2	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:264:U:O2	34:BA:264:U:C2'	2.40	0.70
34:BA:323:U:H5	34:BA:324:G:C4	2.09	0.70
34:BA:745:C:H5''	34:BA:851:G:H1'	1.72	0.70
34:BA:858:G:N1	34:BA:869:G:H3'	2.07	0.70
34:BA:949:A:H2'	34:BA:950:U:C6	2.26	0.70
34:BA:1267:C:N4	34:BA:1311:G:O2'	2.24	0.70
34:BA:1319:A:C4'	52:BW:37:ARG:CA	2.56	0.70
34:BA:1324:A:O4'	34:BA:1362:C:H4'	1.91	0.70
34:BA:1329:A:C3'	46:BQ:24:GLY:O	2.40	0.70
35:BF:21:ARG:O	35:BF:23:ARG:N	2.24	0.70
35:BF:31:TYR:CE2	35:BF:200:ILE:CG2	2.74	0.70
35:BF:82:ARG:H	35:BF:94:ASN:HD21	1.35	0.70
35:BF:134:GLU:OE1	35:BF:134:GLU:HA	1.89	0.70
40:BK:5:ARG:CD	40:BK:7:ALA:H	2.03	0.70
40:BK:104:LEU:HD23	40:BK:134:ALA:HB1	1.73	0.70
40:BK:132:GLY:O	40:BK:136:LYS:HB3	1.90	0.70
41:BL:112:LEU:HB2	41:BL:133:LEU:HA	1.72	0.70
46:BQ:19:LEU:CA	46:BQ:25:ILE:HG21	2.21	0.70
51:BV:36:ASN:HB3	51:BV:40:LEU:HG	1.74	0.70
55:CA:35:ARG:HA	55:CA:36:ALA:O	1.90	0.70
55:CA:234:ASN:HD22	55:CA:249:ALA:HA	1.57	0.70
55:CA:298:PRO:HB2	55:CA:299:ALA:CA	2.22	0.70
55:CA:377:GLY:C	55:CA:582:PRO:CG	2.64	0.70
55:CA:382:VAL:CG2	55:CA:569:LEU:HD21	2.21	0.70
55:CA:426:LEU:CB	55:CA:441:TYR:CE2	2.69	0.70
1:AA:197:A:O4'	1:AA:2068:U:N3	2.25	0.70
1:AA:200:U:H5'	1:AA:201:C:OP2	1.91	0.70
1:AA:300:A:O2'	1:AA:318:C:H1'	1.92	0.70
1:AA:532:A:OP1	1:AA:532:A:H4'	1.92	0.70
1:AA:619:G:N7	1:AA:620:G:C2	2.59	0.70
1:AA:687:C:H1'	1:AA:788:A:C5'	2.21	0.70
1:AA:1075:C:C6	10:AJ:90:LYS:NZ	2.58	0.70
1:AA:1284:A:N1	1:AA:1285:G:N2	2.40	0.70
1:AA:1306:C:O2'	1:AA:1307:A:H5'	1.91	0.70
1:AA:1398:C:H2'	1:AA:1399:C:H6	1.56	0.70
1:AA:1487:G:N2	1:AA:1503:U:C2	2.60	0.70
1:AA:1624:G:H2'	1:AA:1625:C:C5	2.26	0.70
1:AA:1785:A:OP2	1:AA:1785:A:H8	1.75	0.70
1:AA:1853:A:H2'	1:AA:1854:A:C8	2.27	0.70
1:AA:1878:G:H2'	1:AA:1879:C:H6	1.56	0.70
1:AA:2126:A:H1'	1:AA:2162:G:N2	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2498:C:H2'	1:AA:2498:C:O2	1.92	0.70
1:AA:2537:U:C4	1:AA:2538:C:N4	2.60	0.70
1:AA:2701:C:C3'	1:AA:2702:U:H5''	2.10	0.70
1:AA:2780:G:H22	11:AK:97:ARG:HH12	0.75	0.70
1:AA:2815:C:O2'	28:Ab:42:PRO:CB	2.40	0.70
1:AA:2849:U:H3'	1:AA:2849:U:C6	2.27	0.70
3:AC:167:LYS:HG3	3:AC:168:THR:H	1.57	0.70
4:AD:119:ALA:HA	4:AD:123:ALA:HB2	1.73	0.70
4:AD:146:GLU:HG2	4:AD:147:LEU:O	1.92	0.70
5:AE:51:PHE:CG	5:AE:52:LEU:N	2.58	0.70
6:AF:156:LEU:HD12	6:AF:167:ALA:HB1	1.71	0.70
7:AG:44:GLY:C	7:AG:72:ARG:HB3	2.16	0.70
7:AG:65:GLY:O	7:AG:66:GLN:HB2	1.89	0.70
7:AG:68:PRO:HB3	7:AG:72:ARG:CZ	2.21	0.70
8:AH:15:VAL:HG13	8:AH:17:VAL:HB	1.74	0.70
8:AH:132:ARG:HD3	8:AH:132:ARG:N	2.06	0.70
11:AK:42:TRP:CD1	18:AR:64:ARG:HG2	2.27	0.70
12:AL:43:VAL:CG1	12:AL:54:GLU:HA	2.21	0.70
13:AM:111:ARG:NH1	13:AM:113:LYS:HB2	2.07	0.70
14:AN:58:PHE:C	14:AN:60:ARG:H	1.98	0.70
15:AO:34:ILE:C	15:AO:113:LEU:HD22	2.16	0.70
17:AQ:11:GLU:O	17:AQ:12:SER:C	2.33	0.70
18:AR:27:LEU:O	18:AR:31:SER:CB	2.39	0.70
18:AR:81:HIS:HB3	18:AR:117:GLN:CD	2.16	0.70
20:AT:11:ARG:HH11	20:AT:11:ARG:HB3	1.57	0.70
20:AT:73:ALA:O	20:AT:106:ILE:HG22	1.92	0.70
21:AU:12:VAL:HG23	21:AU:28:PHE:C	2.17	0.70
24:AX:40:GLN:HB3	24:AX:45:PHE:CE2	2.27	0.70
26:AZ:29:ARG:O	26:AZ:30:ARG:C	2.33	0.70
27:Aa:10:VAL:O	27:Aa:10:VAL:HG12	1.91	0.70
34:BA:130:A:N7	50:BU:64:PRO:HD2	2.07	0.70
34:BA:219:C:H2'	34:BA:220:G:O4'	1.91	0.70
34:BA:335:C:O2'	34:BA:1433:A:N3	2.21	0.70
34:BA:427:U:O5'	34:BA:427:U:H6	1.74	0.70
34:BA:623:C:O2'	34:BA:624:C:H5'	1.91	0.70
34:BA:795:C:O2'	34:BA:1506:U:H1'	1.90	0.70
34:BA:1347:G:H3'	42:BM:107:ARG:C	2.16	0.70
35:BF:9:GLU:HG2	35:BF:10:LEU:H	1.55	0.70
37:BH:63:LYS:HG2	37:BH:64:LEU:N	2.06	0.70
38:BI:103:GLY:O	38:BI:106:PRO:HD2	1.92	0.70
39:BJ:79:LEU:HB2	39:BJ:88:VAL:HG11	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:113:GLU:OE1	40:BK:118:VAL:HG12	1.91	0.70
48:BS:53:HIS:O	48:BS:56:LEU:HB3	1.92	0.70
48:BS:77:ARG:O	48:BS:80:ALA:HB3	1.92	0.70
55:CA:21:LEU:HD11	55:CA:98:VAL:HG23	1.74	0.70
55:CA:114:LYS:O	55:CA:117:PHE:HB2	1.92	0.70
1:AA:226:G:C2	1:AA:227:A:N3	2.59	0.70
1:AA:628:G:O5'	1:AA:628:G:C8	2.42	0.70
1:AA:693:C:OP1	4:AD:60:ARG:CZ	2.40	0.70
1:AA:783:A:H3'	4:AD:227:ASN:CG	2.17	0.70
1:AA:791:C:C4	1:AA:794:G:H1'	2.26	0.70
1:AA:1044:G:N3	9:AI:6:ASN:CB	2.53	0.70
1:AA:1058:G:H1'	10:AJ:116:ASN:CG	2.17	0.70
1:AA:1081:U:H5''	10:AJ:125:ARG:CD	2.04	0.70
1:AA:1508:A:H3'	1:AA:1510:A:C8	2.27	0.70
1:AA:1606:G:H4'	1:AA:1608:A:N3	2.06	0.70
1:AA:1773:A:C2	1:AA:1977:A:N6	2.60	0.70
1:AA:1785:A:C5'	1:AA:1982:C:H4'	2.22	0.70
1:AA:1910:G:N9	1:AA:1921:G:N2	2.38	0.70
1:AA:2376:A:H2'	1:AA:2377:A:O4'	1.92	0.70
1:AA:2670:A:C2	1:AA:2671:A:N7	2.58	0.70
1:AA:2680:C:OP1	5:AE:190:GLY:HA2	1.91	0.70
1:AA:2791:C:O2'	1:AA:2792:G:H5'	1.92	0.70
1:AA:2799:A:OP2	1:AA:2799:A:H3'	1.91	0.70
1:AA:2876:G:C4'	17:AQ:1:MET:H2	2.03	0.70
3:AC:86:ALA:HB2	3:AC:149:ILE:C	2.17	0.70
3:AC:163:PHE:HA	3:AC:171:ILE:HD11	1.73	0.70
4:AD:59:LYS:HE3	4:AD:59:LYS:O	1.91	0.70
4:AD:119:ALA:CB	4:AD:130:ALA:H	2.05	0.70
5:AE:32:PRO:HB2	5:AE:35:GLN:HE22	1.56	0.70
6:AF:122:LYS:HD3	6:AF:123:LEU:N	2.06	0.70
7:AG:39:ILE:CD1	7:AG:92:VAL:HG12	2.22	0.70
8:AH:103:LEU:O	8:AH:105:LEU:HG	1.90	0.70
10:AJ:90:LYS:HB3	10:AJ:91:PRO:HD3	1.73	0.70
11:AK:34:LEU:HB3	11:AK:116:LEU:HD21	1.74	0.70
11:AK:107:LEU:HD11	11:AK:113:GLY:O	1.92	0.70
12:AL:10:VAL:HG12	12:AL:17:ARG:CA	2.22	0.70
12:AL:70:LYS:HE2	12:AL:104:ARG:CG	2.22	0.70
13:AM:74:GLU:HB2	13:AM:107:LYS:NZ	2.07	0.70
13:AM:75:ILE:CG2	13:AM:115:LEU:HD11	2.17	0.70
14:AN:89:ASN:N	14:AN:89:ASN:HD22	1.86	0.70
15:AO:20:LEU:O	15:AO:21:TYR:C	2.33	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:100:LEU:O	28:Ab:44:THR:HG22	1.91	0.70
17:AQ:17:THR:HB	17:AQ:20:PRO:CD	2.18	0.70
17:AQ:30:VAL:HG13	17:AQ:32:TYR:OH	1.90	0.70
17:AQ:53:ARG:NH2	17:AQ:102:ILE:CD1	2.55	0.70
18:AR:66:ASN:C	18:AR:70:ARG:HE	2.00	0.70
31:Ae:38:GLY:O	31:Ae:41:ILE:HG12	1.91	0.70
34:BA:9:G:C5'	38:BI:126:ARG:HD3	2.17	0.70
34:BA:267:C:C4	34:BA:268:C:N4	2.59	0.70
34:BA:519:C:H2'	34:BA:520:A:C5'	2.21	0.70
34:BA:684:A:O3'	44:BO:12:ARG:NH2	2.25	0.70
34:BA:800:G:O5'	34:BA:800:G:C8	2.44	0.70
34:BA:1270:C:O4'	34:BA:1313:U:H4'	1.91	0.70
34:BA:1399:C:N4	34:BA:1502:A:N7	2.39	0.70
35:BF:187:LEU:HD13	35:BF:188:ALA:N	2.06	0.70
38:BI:76:ILE:HG21	38:BI:142:LEU:HB3	1.73	0.70
38:BI:81:GLU:HA	38:BI:89:ILE:O	1.92	0.70
38:BI:89:ILE:CG1	38:BI:131:ILE:HD12	2.17	0.70
39:BJ:99:ALA:CB	51:BV:31:LEU:HD11	2.22	0.70
40:BK:74:GLU:HA	40:BK:145:ALA:CB	2.21	0.70
41:BL:119:LEU:HB3	41:BL:123:GLU:OE1	1.91	0.70
44:BO:30:VAL:O	44:BO:42:TRP:HB2	1.91	0.70
44:BO:54:ARG:O	44:BO:57:THR:HG22	1.91	0.70
45:BP:82:VAL:N	45:BP:106:ASP:OD1	2.24	0.70
50:BU:7:THR:HG21	50:BU:56:VAL:HG12	1.73	0.70
52:BW:40:ILE:C	52:BW:68:GLY:HA2	2.16	0.70
55:CA:396:LYS:HB3	55:CA:475:VAL:N	2.04	0.70
1:AA:126:A:H2'	1:AA:127:A:H5'	1.73	0.70
1:AA:196:A:H3'	1:AA:197:A:H5''	1.72	0.70
1:AA:388:G:N3	1:AA:390:A:C6	2.60	0.70
1:AA:533:G:OP1	18:AR:24:TYR:HB3	1.92	0.70
1:AA:569:U:H1'	1:AA:947:G:C1'	2.21	0.70
1:AA:613:U:O5'	1:AA:615:G:H1'	1.92	0.70
1:AA:704:G:N2	1:AA:726:G:H1'	2.07	0.70
1:AA:727:A:C6	1:AA:729:G:O6	2.45	0.70
1:AA:1036:G:P	8:AH:59:ARG:CZ	2.79	0.70
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.27	0.70
1:AA:1238:G:H2'	1:AA:1239:G:O4'	1.91	0.70
1:AA:1264:G:N7	1:AA:1265:A:C4	2.59	0.70
1:AA:1735:C:C4	1:AA:1741:C:N4	2.60	0.70
1:AA:1829:A:N1	1:AA:1830:C:H1'	2.07	0.70
1:AA:1858:G:H22	1:AA:1884:A:H1'	1.57	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1931:U:C5	1:AA:1932:A:C5	2.79	0.70
1:AA:2219:G:H2'	1:AA:2224:G:C5'	2.22	0.70
1:AA:2460:U:H5'	1:AA:2461:C:OP2	1.92	0.70
1:AA:2472:G:O5'	1:AA:2472:G:H8	1.75	0.70
1:AA:2779:U:H5'	1:AA:2781:A:OP2	1.91	0.70
1:AA:2805:G:H2'	1:AA:2807:G:O4'	1.92	0.70
3:AC:100:ILE:HA	3:AC:103:ILE:HD12	1.73	0.70
4:AD:150:LYS:C	4:AD:152:GLY:H	2.00	0.70
7:AG:36:LYS:CB	7:AG:95:ARG:HD3	2.22	0.70
7:AG:125:PHE:CD2	7:AG:130:ASN:N	2.60	0.70
7:AG:148:MET:HG2	7:AG:151:ALA:N	2.06	0.70
9:AI:53:VAL:O	9:AI:85:ASP:HA	1.89	0.70
12:AL:112:MET:HE1	34:BA:344:A:OP2	1.92	0.70
13:AM:99:LEU:HD22	13:AM:101:VAL:HG22	1.72	0.70
14:AN:22:LYS:CD	14:AN:23:GLY:H	2.04	0.70
14:AN:27:VAL:CG2	14:AN:28:ALA:H	1.94	0.70
15:AO:11:ASN:ND2	15:AO:12:ARG:H	1.90	0.70
17:AQ:49:VAL:C	17:AQ:50:ILE:HG12	2.17	0.70
18:AR:50:ARG:HH11	18:AR:50:ARG:CB	2.04	0.70
18:AR:70:ARG:HB2	18:AR:70:ARG:CZ	2.22	0.70
18:AR:105:VAL:O	18:AR:108:GLU:OE2	2.09	0.70
20:AT:98:LYS:O	20:AT:98:LYS:NZ	2.19	0.70
23:AW:18:LEU:HD11	23:AW:38:TYR:CD2	2.27	0.70
27:Aa:31:ILE:H	27:Aa:31:ILE:CD1	2.05	0.70
27:Aa:41:PRO:HB2	27:Aa:57:GLU:OE2	1.91	0.70
28:Ab:50:GLY:O	28:Ab:55:ARG:HA	1.92	0.70
29:Ac:29:ASN:O	29:Ac:30:THR:O	2.10	0.70
29:Ac:30:THR:CG2	29:Ac:31:PRO:HD3	2.21	0.70
30:Ad:27:GLY:O	30:Ad:31:LEU:HG	1.91	0.70
34:BA:344:A:H5''	34:BA:345:C:C5	2.26	0.70
34:BA:358:U:C1'	55:CA:217:TYR:HE1	1.93	0.70
34:BA:403:C:O2'	37:BH:122:ARG:CZ	2.39	0.70
34:BA:453:A:N6	34:BA:480:U:N3	2.40	0.70
34:BA:498:A:H4'	34:BA:500:G:H5'	1.72	0.70
34:BA:624:C:H2'	34:BA:625:G:H8	1.56	0.70
34:BA:762:C:H2'	34:BA:763:G:H8	1.53	0.70
34:BA:1064:G:N3	34:BA:1066:C:N4	2.40	0.70
34:BA:1102:A:C6	34:BA:1103:C:N4	2.60	0.70
34:BA:1144:G:N2	34:BA:1146:A:N6	2.39	0.70
34:BA:1161:C:C2	34:BA:1162:C:C5	2.80	0.70
34:BA:1211:U:O2'	34:BA:1213:A:H1'	1.92	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1244:C:H2'	34:BA:1245:A:C8	2.26	0.70
34:BA:1313:U:H3	34:BA:1324:A:H2	0.77	0.70
34:BA:1321:C:C5	34:BA:1322:C:H2'	2.27	0.70
34:BA:1358:U:OP2	34:BA:1359:C:H5	1.73	0.70
34:BA:1513:A:H2'	34:BA:1514:C:C6	2.26	0.70
35:BF:16:HIS:HA	35:BF:204:ASN:CB	2.21	0.70
35:BF:102:LEU:HB3	35:BF:180:LEU:CD1	2.22	0.70
37:BH:20:TYR:C	37:BH:26:CYS:SG	2.75	0.70
39:BJ:10:LEU:N	39:BJ:10:LEU:CD2	2.55	0.70
41:BL:48:TYR:CB	41:BL:61:VAL:HG22	2.22	0.70
46:BQ:14:ARG:CA	46:BQ:43:THR:O	2.40	0.70
48:BS:34:LEU:CG	48:BS:35:ARG:N	2.55	0.70
48:BS:49:ASP:CG	48:BS:52:SER:HB2	2.17	0.70
50:BU:44:ALA:HB1	50:BU:72:ARG:CA	2.22	0.70
50:BU:94:ASN:OD1	50:BU:104:LYS:HD2	1.91	0.70
53:BX:23:ARG:HD3	53:BX:24:LEU:N	2.07	0.70
55:CA:27:GLN:CG	55:CA:28:GLN:NE2	2.54	0.70
55:CA:300:LEU:HD12	55:CA:300:LEU:H	1.55	0.70
55:CA:493:GLN:HA	55:CA:519:TYR:HA	1.74	0.70
55:CA:493:GLN:HG2	55:CA:519:TYR:CB	2.22	0.70
1:AA:149:A:N7	1:AA:150:C:C2	2.60	0.70
1:AA:411:G:O4'	1:AA:2407:G:P	2.50	0.70
1:AA:530:G:O2'	1:AA:531:C:P	2.50	0.70
1:AA:663:G:O2'	1:AA:940:G:C4'	2.40	0.70
1:AA:709:U:H2'	1:AA:710:G:C8	2.26	0.70
1:AA:731:C:O2'	1:AA:732:C:H5'	1.92	0.70
1:AA:752:A:H62	1:AA:1781:C:H1'	1.56	0.70
1:AA:882:G:O3'	1:AA:883:G:C5'	2.37	0.70
1:AA:1042:G:N1	1:AA:1113:U:C4	2.56	0.70
1:AA:1080:C:H5'	10:AJ:128:ALA:C	2.17	0.70
1:AA:1215:G:H2'	1:AA:1216:G:O4'	1.92	0.70
1:AA:1271:G:O5'	1:AA:1272:A:OP1	2.10	0.70
1:AA:1484:G:H2'	1:AA:1485:G:C5'	2.21	0.70
1:AA:1527:G:H2'	1:AA:1528:A:O4'	1.92	0.70
1:AA:1966:A:C4	1:AA:2593:U:H5'	2.27	0.70
1:AA:2033:A:N1	1:AA:2036:C:C4	2.60	0.70
1:AA:2056:G:OP2	1:AA:2057:A:OP2	2.10	0.70
1:AA:2059:A:N1	1:AA:2503:A:C6	2.60	0.70
1:AA:2416:C:O5'	1:AA:2416:C:H6	1.75	0.70
1:AA:2447:G:H8	1:AA:2500:U:H3'	0.87	0.70
1:AA:2532:G:H4'	1:AA:2657:A:N3	2.01	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2670:A:H2'	1:AA:2671:A:H8	1.54	0.70
1:AA:2708:G:H2'	1:AA:2709:G:C8	2.27	0.70
1:AA:2848:G:N2	1:AA:2867:G:N3	2.40	0.70
2:AB:43:C:N3	2:AB:45:A:C8	2.60	0.70
4:AD:239:ARG:HD2	4:AD:239:ARG:N	2.07	0.70
5:AE:14:ILE:HD11	17:AQ:14:TYR:HB3	1.73	0.70
5:AE:49:LEU:CD1	5:AE:74:PRO:HB2	2.22	0.70
5:AE:172:VAL:HA	5:AE:184:VAL:HG12	1.72	0.70
6:AF:197:ASP:O	6:AF:200:GLU:OE1	2.08	0.70
8:AH:55:PRO:HG2	8:AH:61:HIS:CE1	2.26	0.70
8:AH:70:THR:O	8:AH:73:ALA:HB3	1.92	0.70
8:AH:119:GLU:O	8:AH:121:ILE:N	2.24	0.70
11:AK:3:THR:HG22	11:AK:4:TYR:N	2.07	0.70
11:AK:54:VAL:CG1	11:AK:122:VAL:HB	2.21	0.70
11:AK:75:TYR:HD1	11:AK:75:TYR:H	1.40	0.70
12:AL:64:ARG:HE	12:AL:67:LYS:N	1.90	0.70
14:AN:66:ILE:N	14:AN:105:GLU:OE2	2.25	0.70
14:AN:137:TYR:O	14:AN:138:ASP:OD1	2.10	0.70
16:AP:26:LEU:HD21	16:AP:37:ALA:CB	2.22	0.70
19:AS:40:LEU:CD2	19:AS:51:VAL:HG12	2.18	0.70
21:AU:7:VAL:O	21:AU:8:ILE:HG23	1.92	0.70
22:AV:84:ARG:HG2	22:AV:86:ARG:H	1.55	0.70
23:AW:31:ARG:N	23:AW:89:PHE:CE1	2.59	0.70
23:AW:157:LEU:HD13	23:AW:161:VAL:CG1	2.21	0.70
27:Aa:42:PHE:N	27:Aa:57:GLU:OE2	2.25	0.70
29:Ac:44:ARG:HB2	29:Ac:47:THR:CG2	2.22	0.70
31:Ae:39:LYS:HG2	31:Ae:40:GLU:N	2.05	0.70
34:BA:19:C:O2	34:BA:572:A:H2	1.75	0.70
34:BA:129(A):G:H4'	34:BA:130:A:C5'	2.22	0.70
34:BA:663:A:N6	34:BA:742:G:O6	2.18	0.70
34:BA:679:C:H2'	34:BA:680:C:H6	1.56	0.70
34:BA:891:U:H5	34:BA:906:G:N1	1.89	0.70
34:BA:1120:G:O5'	34:BA:1120:G:H8	1.75	0.70
34:BA:1126:U:O2'	34:BA:1127:G:H5'	1.91	0.70
34:BA:1200:C:H5''	34:BA:1201:A:C3'	2.22	0.70
34:BA:1200:C:O5'	34:BA:1202:G:OP1	2.08	0.70
34:BA:1298:C:H41	40:BK:114:ARG:HB3	1.56	0.70
34:BA:1394:A:H62	34:BA:1501:C:C5'	2.05	0.70
35:BF:101:MET:C	35:BF:103:THR:H	1.99	0.70
41:BL:46:LYS:HZ1	41:BL:65:TYR:H	1.38	0.70
41:BL:51:VAL:HG11	41:BL:60:ARG:NH2	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:70:GLN:HE21	41:BL:70:GLN:CA	2.04	0.70
41:BL:80:ILE:HD12	41:BL:80:ILE:N	2.03	0.70
42:BM:98:PRO:C	42:BM:100:GLY:N	2.49	0.70
44:BO:41:THR:CB	44:BO:71:LYS:HD3	2.22	0.70
48:BS:11:VAL:HA	48:BS:14:GLU:OE2	1.91	0.70
50:BU:104:LYS:HD3	50:BU:105:ALA:N	2.06	0.70
52:BW:16:LEU:HD12	52:BW:19:VAL:CG1	2.22	0.70
55:CA:89:MET:HA	55:CA:92:VAL:HG22	1.72	0.70
55:CA:124:ILE:HA	55:CA:161:ALA:HB1	1.74	0.70
1:AA:114:U:H2'	1:AA:115:C:C6	2.27	0.69
1:AA:200:U:C4	1:AA:201:C:H1'	2.27	0.69
1:AA:270(E):G:H2'	1:AA:270(F):U:H6	1.56	0.69
1:AA:578:A:C2	1:AA:2018:G:O4'	2.44	0.69
1:AA:703:U:H3'	1:AA:704:G:H8	1.55	0.69
1:AA:866:A:N6	1:AA:913:U:O2'	2.21	0.69
1:AA:881:G:C5	1:AA:896:A:C2	2.80	0.69
1:AA:960:A:O2'	1:AA:961:C:H5'	1.91	0.69
1:AA:1036:G:C5'	8:AH:59:ARG:NH1	2.55	0.69
1:AA:1418:G:N3	1:AA:1581:G:N2	2.40	0.69
1:AA:1504:C:C6	1:AA:1504:C:O5'	2.46	0.69
1:AA:1613:G:N2	1:AA:1619:G:C4	2.60	0.69
1:AA:1785:A:H5''	1:AA:1982:C:HO2'	1.56	0.69
1:AA:1827:C:H1'	1:AA:1970:A:H2	1.56	0.69
1:AA:1913:A:N6	34:BA:1494:G:OP1	2.24	0.69
1:AA:1970:A:O2'	1:AA:1971:A:P	2.50	0.69
1:AA:2373:G:O2'	1:AA:2374:C:O5'	2.09	0.69
1:AA:2550:G:H2'	1:AA:2551:C:C6	2.26	0.69
1:AA:2564:A:C6	1:AA:2647:U:O4'	2.45	0.69
1:AA:2794:C:C2	1:AA:2799:A:N3	2.59	0.69
2:AB:14:U:H1'	2:AB:107:U:C1'	2.22	0.69
3:AC:10:LEU:HD11	3:AC:32:LEU:CB	2.22	0.69
3:AC:153:ILE:O	3:AC:156:ILE:HB	1.92	0.69
4:AD:75:ILE:HD13	4:AD:99:ASP:HB3	1.72	0.69
5:AE:36:ARG:CG	5:AE:79:ARG:HH21	1.97	0.69
5:AE:60:ASN:HA	5:AE:63:LEU:CD1	2.22	0.69
6:AF:9:ILE:CG1	6:AF:122:LYS:HG3	2.22	0.69
6:AF:41:LEU:O	6:AF:44:ARG:CG	2.40	0.69
6:AF:123:LEU:HD12	6:AF:193:VAL:CG2	2.18	0.69
6:AF:185:ASP:O	6:AF:189:THR:HG23	1.92	0.69
10:AJ:12:LEU:HD21	10:AJ:57:ILE:CG2	2.21	0.69
10:AJ:105:LEU:CD2	10:AJ:123:ALA:CB	2.70	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:97:ARG:HH21	12:AL:98:VAL:CA	2.05	0.69
13:AM:137:LYS:HA	13:AM:137:LYS:CE	2.21	0.69
14:AN:27:VAL:HG13	14:AN:104:PHE:HE2	1.57	0.69
15:AO:90:ARG:NH2	15:AO:117:VAL:HG13	2.06	0.69
16:AP:17:ARG:NE	16:AP:89:ARG:HB2	2.07	0.69
16:AP:19:LYS:O	16:AP:20:ARG:C	2.35	0.69
16:AP:33:LYS:HG2	16:AP:54:LEU:HD21	1.72	0.69
17:AQ:85:LYS:H	17:AQ:85:LYS:NZ	1.90	0.69
18:AR:108:GLU:OE2	18:AR:109:LEU:N	2.24	0.69
18:AR:115:ALA:O	18:AR:118:GLY:N	2.25	0.69
20:AT:28:SER:HB2	20:AT:69:LEU:O	1.91	0.69
23:AW:57:ILE:C	23:AW:58:VAL:HG22	2.15	0.69
23:AW:104:PHE:CZ	23:AW:171:ILE:HD11	2.27	0.69
25:AY:8:ALA:O	25:AY:9:ARG:C	2.35	0.69
27:Aa:20:ASN:HB2	27:Aa:30:GLU:HB2	1.73	0.69
29:Ac:38:LYS:O	29:Ac:49:HIS:HB3	1.91	0.69
30:Ad:2:LYS:C	30:Ad:4:THR:H	1.99	0.69
30:Ad:22:MET:O	30:Ad:28:ARG:HG2	1.92	0.69
34:BA:129(A):G:H3'	34:BA:129(A):G:C8	2.27	0.69
34:BA:275:G:H5'	50:BU:14:LYS:HZ3	1.56	0.69
34:BA:306:G:O2'	34:BA:307:C:H5'	1.92	0.69
34:BA:517:G:N2	34:BA:533:A:OP2	2.25	0.69
34:BA:711:G:O2'	34:BA:712:A:H5'	1.92	0.69
34:BA:863:U:O2	34:BA:863:U:C2'	2.40	0.69
34:BA:865:A:C4	34:BA:866:C:O2	2.45	0.69
34:BA:1201:A:O2'	34:BA:1202:G:H5''	1.92	0.69
34:BA:1224:G:H1	34:BA:1362(A):C:H42	1.38	0.69
34:BA:1269:A:C1'	34:BA:1312:G:N2	2.55	0.69
34:BA:1306:A:N6	34:BA:1331:G:H1'	2.07	0.69
36:BG:59:ARG:NH2	36:BG:64:VAL:HG13	2.07	0.69
36:BG:87:LEU:HB2	36:BG:101:LEU:CD1	2.20	0.69
37:BH:60:GLU:HA	37:BH:63:LYS:HD3	1.74	0.69
40:BK:72:ARG:HG3	40:BK:73:MET:H	1.56	0.69
42:BM:37:PHE:HD2	42:BM:37:PHE:N	1.90	0.69
44:BO:82:VAL:HG12	44:BO:108:ILE:HG23	1.74	0.69
45:BP:72:GLY:HA3	45:BP:102:ARG:HD2	1.72	0.69
46:BQ:36:LYS:HB3	46:BQ:56:LEU:HD21	1.74	0.69
51:BV:33:ASP:OD2	51:BV:36:ASN:HB2	1.91	0.69
52:BW:63:THR:O	52:BW:66:MET:HG2	1.92	0.69
53:BX:56:MET:CG	53:BX:88:VAL:HG21	2.21	0.69
53:BX:66:ALA:O	53:BX:67:ALA:C	2.33	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:57:LEU:HB3	55:CA:255:LEU:HA	1.74	0.69
55:CA:81:PHE:O	55:CA:361:ARG:CG	2.39	0.69
55:CA:184:THR:H	55:CA:185:PRO:HD3	1.57	0.69
55:CA:400:TYR:N	55:CA:469:PHE:HA	2.07	0.69
1:AA:145:G:H2'	1:AA:146:G:C8	2.27	0.69
1:AA:353:G:C6	1:AA:354:G:C6	2.80	0.69
1:AA:532:A:H8	1:AA:533:G:H1'	1.57	0.69
1:AA:571:A:H1'	1:AA:573:G:N7	2.07	0.69
1:AA:669:G:N7	6:AF:54:ARG:NH2	2.40	0.69
1:AA:1241:A:N3	1:AA:1241:A:C4'	2.55	0.69
1:AA:1263:U:H5''	28:Ab:10:LYS:HZ3	1.56	0.69
1:AA:1324:G:H5''	1:AA:1325:G:O2'	1.91	0.69
1:AA:1342:A:OP1	21:AU:55:ASN:HB3	1.91	0.69
1:AA:1748:G:H2'	1:AA:1749:A:C8	2.27	0.69
1:AA:1789:A:C4'	4:AD:222:ARG:CZ	2.70	0.69
1:AA:1935:G:H2'	1:AA:1962:C:N3	2.07	0.69
1:AA:2231:C:H2'	1:AA:2232:U:C6	2.27	0.69
1:AA:2517:C:O2'	1:AA:2518:A:O5'	2.08	0.69
1:AA:2708:G:OP1	15:AO:68:ARG:HG2	1.92	0.69
5:AE:44:TYR:HD1	5:AE:45:THR:H	1.36	0.69
7:AG:8:LYS:HZ1	7:AG:176:LEU:CD1	2.04	0.69
7:AG:126:ASP:HA	7:AG:166:ASP:OD2	1.92	0.69
7:AG:141:PHE:HE1	7:AG:145:THR:HA	1.54	0.69
15:AO:5:LYS:HZ1	15:AO:6:SER:C	1.99	0.69
16:AP:49:VAL:HG22	16:AP:76:LYS:NZ	2.07	0.69
17:AQ:95:ARG:NH1	17:AQ:96:ARG:HH11	1.90	0.69
18:AR:94:ASN:HA	18:AR:97:ASP:OD1	1.91	0.69
19:AS:18:LEU:H	19:AS:18:LEU:CD2	2.05	0.69
23:AW:9:TYR:HB2	23:AW:14:LYS:HG2	1.74	0.69
23:AW:10:ARG:HB3	23:AW:36:LYS:CD	2.19	0.69
23:AW:15:PRO:O	23:AW:18:LEU:HB2	1.90	0.69
27:Aa:10:VAL:N	27:Aa:11:PRO:CD	2.55	0.69
28:Ab:9:LYS:O	28:Ab:10:LYS:CB	2.40	0.69
34:BA:336:C:H2'	34:BA:337:C:H6	1.58	0.69
34:BA:518:C:O2'	45:BP:50:SER:HB3	1.92	0.69
34:BA:519:C:C2'	34:BA:520:A:H5'	2.21	0.69
34:BA:595:G:O6	34:BA:641:U:H3'	1.92	0.69
34:BA:674:G:H2'	34:BA:675:A:H8	1.54	0.69
34:BA:760:G:O2'	50:BU:103:GLY:HA3	1.91	0.69
34:BA:899:C:N4	34:BA:900:A:N1	2.40	0.69
34:BA:959:A:H2	34:BA:1221:G:N3	1.90	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1311:G:O6	34:BA:1327:C:C4	2.40	0.69
34:BA:1326:C:H5''	54:BY:12:LYS:NZ	2.07	0.69
34:BA:1394:A:N6	34:BA:1500:A:O2'	2.24	0.69
34:BA:1463:C:C2'	34:BA:1464:G:H5'	2.22	0.69
35:BF:168:THR:CG2	35:BF:192:SER:HA	2.22	0.69
37:BH:34:GLU:O	37:BH:35:ARG:HB2	1.92	0.69
37:BH:118:ARG:HG3	37:BH:118:ARG:HH21	1.57	0.69
38:BI:150:ARG:O	38:BI:150:ARG:HD3	1.92	0.69
41:BL:17:THR:CG2	41:BL:18:ARG:NH2	2.55	0.69
41:BL:53:VAL:O	41:BL:56:LYS:HB2	1.92	0.69
42:BM:8:GLY:HA3	42:BM:76:ALA:O	1.92	0.69
42:BM:15:ALA:HB1	42:BM:77:ILE:HG13	1.73	0.69
44:BO:91:ARG:O	44:BO:94:ALA:HB3	1.92	0.69
45:BP:58:VAL:CG1	45:BP:59:ARG:N	2.54	0.69
45:BP:62:SER:O	45:BP:63:GLY:C	2.34	0.69
45:BP:88:GLY:HA3	45:BP:99:HIS:CE1	2.27	0.69
48:BS:36:ILE:HD12	48:BS:63:ARG:CD	2.22	0.69
51:BV:66:LEU:CD1	51:BV:67:ALA:N	2.52	0.69
53:BX:23:ARG:CA	53:BX:26:ASN:OD1	2.40	0.69
55:CA:8:ILE:CD1	55:CA:96:LEU:CD1	2.70	0.69
55:CA:207:MET:HE1	55:CA:209:ILE:HA	1.74	0.69
55:CA:402:ASN:CB	55:CA:441:TYR:C	2.42	0.69
55:CA:446:ARG:NH1	55:CA:480:VAL:H	1.89	0.69
1:AA:29:U:OP1	1:AA:583:G:H4'	1.91	0.69
1:AA:38:A:H2'	1:AA:39:C:C6	2.27	0.69
1:AA:292:C:C3'	1:AA:293:U:N3	2.55	0.69
1:AA:363(A):A:N3	1:AA:363(A):A:H2'	2.06	0.69
1:AA:668:G:C2	1:AA:670:A:N6	2.60	0.69
1:AA:728:G:O3'	4:AD:13:ARG:NH2	2.25	0.69
1:AA:1142(A):A:H5''	1:AA:1143:A:OP2	1.91	0.69
1:AA:1257:C:H4'	6:AF:83:PHE:HD2	1.57	0.69
1:AA:1317:A:H2'	1:AA:1318:C:H6	1.54	0.69
1:AA:1335:U:OP1	21:AU:65:ARG:HG3	1.91	0.69
1:AA:1557:C:H5''	1:AA:1558:A:OP2	1.92	0.69
1:AA:1568:G:OP1	4:AD:61:LEU:CB	2.34	0.69
1:AA:1698:A:O2'	1:AA:1699:G:O5'	2.10	0.69
1:AA:1779:U:H6	1:AA:1779:U:O5'	1.75	0.69
1:AA:1809:A:H61	27:Aa:3:GLU:CG	2.03	0.69
1:AA:1910:G:N3	1:AA:1921:G:N3	2.39	0.69
1:AA:1992:G:H4'	1:AA:1993:U:C4	2.26	0.69
1:AA:2075:U:H5	1:AA:2435:A:C2	2.09	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2126:A:H1'	1:AA:2162:G:H21	1.56	0.69
1:AA:2191:G:N2	1:AA:2192:G:N3	2.40	0.69
1:AA:2305:A:H1'	7:AG:154:GLY:C	2.17	0.69
1:AA:2651:C:O2	1:AA:2670:A:C6	2.42	0.69
1:AA:2679:A:O2'	1:AA:2680:C:H5'	1.91	0.69
1:AA:2688:U:H1'	1:AA:2721:A:H61	1.56	0.69
4:AD:5:LYS:CA	4:AD:29:PRO:HD3	2.21	0.69
4:AD:65:ILE:HD12	4:AD:104:TYR:HB3	1.73	0.69
4:AD:234:GLY:HA3	4:AD:241:PRO:HG3	1.74	0.69
5:AE:128:SER:C	5:AE:130:GLY:N	2.46	0.69
7:AG:103:LEU:HD21	7:AG:176:LEU:CD1	2.23	0.69
8:AH:25:LYS:HD3	8:AH:27:LYS:NZ	2.07	0.69
10:AJ:72:PRO:CB	10:AJ:77:LEU:CD2	2.22	0.69
11:AK:37:LYS:HE2	11:AK:43:THR:HG22	1.73	0.69
12:AL:68:GLU:HA	12:AL:104:ARG:CZ	2.21	0.69
12:AL:101:PRO:HG2	34:BA:346:G:O3'	1.92	0.69
12:AL:112:MET:HG2	34:BA:345:C:C2	2.26	0.69
13:AM:65:ARG:NH2	13:AM:67:MET:N	2.36	0.69
17:AQ:31:SER:OG	17:AQ:49:VAL:HG22	1.91	0.69
17:AQ:109:GLU:O	17:AQ:113:LYS:HB2	1.92	0.69
17:AQ:111:ARG:NH2	34:BA:1433:A:C5'	2.31	0.69
19:AS:4:ILE:HA	19:AS:12:TYR:CD2	2.26	0.69
20:AT:13:SER:HB3	20:AT:16:LYS:HE2	1.75	0.69
22:AV:107:ASP:O	22:AV:109:GLU:N	2.25	0.69
23:AW:9:TYR:CB	23:AW:14:LYS:HG2	2.22	0.69
25:AY:33:GLN:HB3	25:AY:41:GLN:OE1	1.92	0.69
25:AY:41:GLN:O	25:AY:43:HIS:N	2.26	0.69
26:AZ:7:LYS:HB3	26:AZ:55:ARG:HB3	1.74	0.69
26:AZ:15:TYR:CD1	26:AZ:15:TYR:N	2.60	0.69
26:AZ:31:LEU:CD1	26:AZ:32:GLN:HE22	2.04	0.69
27:Aa:5:ILE:HD11	27:Aa:10:VAL:CG2	2.21	0.69
27:Aa:68:ARG:HD3	27:Aa:68:ARG:H	1.56	0.69
29:Ac:20:ASN:ND2	29:Ac:43:CYS:SG	2.65	0.69
34:BA:61:G:C5	34:BA:62:U:C4	2.80	0.69
34:BA:109:A:C2	34:BA:327:A:N1	2.60	0.69
34:BA:573:A:C2	34:BA:574:A:C6	2.80	0.69
34:BA:684:A:H2	34:BA:706:A:H61	1.40	0.69
34:BA:803:G:O2'	34:BA:804:U:H5'	1.91	0.69
34:BA:1067:A:H2	34:BA:1068:G:N3	1.90	0.69
34:BA:1220:G:O3'	52:BW:52:TYR:O	2.11	0.69
34:BA:1319:A:H8	52:BW:70:LYS:NZ	1.88	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:115:LEU:HB2	35:BF:145:LEU:HG	1.74	0.69
36:BG:38:ARG:HB2	36:BG:94:LEU:CD1	2.22	0.69
37:BH:2:GLY:O	37:BH:4:TYR:N	2.25	0.69
38:BI:45:PHE:CE1	38:BI:47:LYS:HD2	2.27	0.69
39:BJ:49:ALA:CB	51:BV:80:PRO:HD3	2.23	0.69
41:BL:54:ASP:O	41:BL:56:LYS:HD2	1.92	0.69
44:BO:69:ALA:O	44:BO:72:ALA:HB3	1.92	0.69
48:BS:36:ILE:HG22	48:BS:37:ASN:ND2	2.06	0.69
49:BT:28:ARG:HG3	49:BT:29:ASP:OD2	1.92	0.69
50:BU:29:HIS:CE1	50:BU:30:PRO:HG2	2.27	0.69
51:BV:73:ALA:C	51:BV:79:LEU:HD11	2.16	0.69
53:BX:48:LYS:HB3	53:BX:51:GLU:CG	2.22	0.69
1:AA:91:A:H3'	1:AA:92:G:C8	2.27	0.69
1:AA:193:U:H4'	1:AA:803:U:H4'	1.74	0.69
1:AA:221:A:N7	1:AA:266:G:C6	2.61	0.69
1:AA:457:A:H1'	1:AA:459:U:H3	1.55	0.69
1:AA:464:U:H2'	1:AA:465:G:C8	2.26	0.69
1:AA:619:G:C8	1:AA:619:G:H3'	2.27	0.69
1:AA:621:A:N7	1:AA:622:G:O4'	2.25	0.69
1:AA:666:G:H2'	1:AA:667:U:C6	2.28	0.69
1:AA:685:A:O2'	1:AA:686:G:OP2	2.10	0.69
1:AA:778:G:N2	1:AA:787:U:C2	2.61	0.69
1:AA:781:A:O2'	4:AD:222:ARG:NH2	2.25	0.69
1:AA:810:U:OP1	1:AA:1253:A:N7	2.26	0.69
1:AA:1009:A:H4'	18:AR:62:ILE:HG21	1.73	0.69
1:AA:1158:C:H5'	26:AZ:31:LEU:CB	2.23	0.69
1:AA:1521:G:O5'	1:AA:1522:G:OP2	2.10	0.69
1:AA:1690:A:C2	1:AA:1691:C:C1'	2.75	0.69
1:AA:1743:G:C6	1:AA:1746:G:C5	2.80	0.69
1:AA:1754:C:C2	1:AA:1755:A:H1'	2.28	0.69
1:AA:1916:A:C6	34:BA:1409:C:O2'	2.45	0.69
1:AA:2083:G:C2	1:AA:2084:C:C2	2.80	0.69
1:AA:2228:G:N7	1:AA:2229:C:C6	2.60	0.69
1:AA:2246:G:N2	1:AA:2247:A:C5	2.60	0.69
1:AA:2519:U:N1	1:AA:2542:A:N1	2.39	0.69
1:AA:2704:C:H2'	1:AA:2705:A:C8	2.28	0.69
1:AA:2748:A:C2	1:AA:2757:A:N6	2.60	0.69
1:AA:2893:G:O5'	1:AA:2894:G:P	2.49	0.69
3:AC:104:LEU:HD22	3:AC:127:LEU:HD23	1.74	0.69
4:AD:54:ARG:HA	4:AD:219:PRO:CG	2.20	0.69
4:AD:57:GLY:C	4:AD:58:HIS:ND1	2.51	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:107:VAL:CG1	8:AH:152:ARG:HD2	2.23	0.69
10:AJ:104:VAL:HG12	10:AJ:127:ILE:CD1	0.45	0.69
11:AK:7:LYS:HZ2	11:AK:10:GLU:N	1.91	0.69
11:AK:34:LEU:HD22	11:AK:120:LEU:HB2	1.75	0.69
11:AK:78:TYR:CB	11:AK:79:PRO:HD2	2.21	0.69
13:AM:126:VAL:HG23	13:AM:146:VAL:O	1.92	0.69
15:AO:56:LYS:O	15:AO:58:GLY:N	2.25	0.69
15:AO:58:GLY:HA2	15:AO:80:PHE:CZ	2.27	0.69
18:AR:111:GLU:HA	18:AR:114:LYS:HE3	1.73	0.69
19:AS:20:LEU:HB3	19:AS:95:LEU:HD13	1.74	0.69
20:AT:13:SER:OG	20:AT:14:PRO:CD	2.36	0.69
22:AV:33:LYS:HB3	22:AV:35:TYR:CE2	2.27	0.69
22:AV:35:TYR:HE1	22:AV:65:ALA:O	1.75	0.69
23:AW:57:ILE:HG23	23:AW:58:VAL:H	1.55	0.69
24:AX:59:LEU:HD13	24:AX:79:VAL:HG11	1.74	0.69
27:Aa:63:TYR:O	27:Aa:66:SER:HB2	1.92	0.69
34:BA:60:A:C2	34:BA:107:G:N3	2.60	0.69
34:BA:195:A:H4'	53:BX:68:LYS:NZ	2.08	0.69
34:BA:517:G:N2	34:BA:533:A:P	2.65	0.69
34:BA:790:A:H2'	34:BA:791:G:O5'	1.92	0.69
34:BA:873:A:OP1	34:BA:873:A:H8	1.76	0.69
34:BA:1045:C:H2'	34:BA:1046:A:C8	2.27	0.69
34:BA:1129:C:OP1	42:BM:16:ARG:CZ	2.41	0.69
34:BA:1283:G:O2'	34:BA:1284:C:H5'	1.91	0.69
34:BA:1407:C:O2'	34:BA:1408:A:H5'	1.92	0.69
34:BA:1423:G:H2'	34:BA:1424:C:C6	2.28	0.69
34:BA:1430:C:C2	34:BA:1431:C:H5	2.09	0.69
35:BF:21:ARG:N	35:BF:21:ARG:HE	1.90	0.69
35:BF:196:LEU:HD12	35:BF:196:LEU:C	2.18	0.69
35:BF:212:GLN:O	35:BF:216:SER:CB	2.41	0.69
35:BF:212:GLN:OE1	35:BF:215:LEU:HB3	1.92	0.69
36:BG:138:VAL:HG22	36:BG:151:VAL:CG2	2.22	0.69
39:BJ:7:ASN:CG	39:BJ:62:TRP:HD1	2.01	0.69
40:BK:38:LEU:HA	40:BK:41:ARG:CG	2.22	0.69
41:BL:85:ARG:HG2	41:BL:85:ARG:NH1	2.04	0.69
43:BN:61:GLU:HG2	43:BN:62:HIS:N	2.04	0.69
44:BO:48:ILE:O	44:BO:49:GLY:C	2.36	0.69
44:BO:58:PRO:CB	44:BO:90:GLY:HA3	2.20	0.69
44:BO:65:ALA:HB1	44:BO:98:LEU:CD2	2.22	0.69
45:BP:23:LYS:HE3	45:BP:23:LYS:CA	2.15	0.69
46:BQ:20:THR:HG23	46:BQ:26:GLY:HA3	0.70	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:39:TYR:CD1	49:BT:40:ASP:N	2.61	0.69
50:BU:5:VAL:CG1	50:BU:6:LEU:N	2.56	0.69
55:CA:455:PHE:CE2	55:CA:465:LEU:HD23	2.28	0.69
1:AA:142:G:H2'	1:AA:143:C:C6	2.28	0.69
1:AA:280:C:H41	1:AA:283:A:H62	1.38	0.69
1:AA:307:G:N2	1:AA:310:A:C8	2.60	0.69
1:AA:586:A:H2	1:AA:809:G:N2	1.90	0.69
1:AA:594:U:C4	1:AA:595:C:N4	2.60	0.69
1:AA:896:A:C2	1:AA:897:C:N3	2.61	0.69
1:AA:950:G:H2'	1:AA:951:C:H6	1.56	0.69
1:AA:1050:A:H1'	1:AA:2752:C:C4	2.16	0.69
1:AA:1166:C:H2'	1:AA:1167:U:H6	1.56	0.69
1:AA:1309:G:H2'	1:AA:1310:G:C5'	2.23	0.69
1:AA:1472:A:O2'	1:AA:1473:G:H8	1.76	0.69
1:AA:1931:U:H5	1:AA:1932:A:N7	1.90	0.69
1:AA:1955:U:C2'	1:AA:1956:U:OP1	2.40	0.69
1:AA:2226:C:O2	1:AA:2227:A:C1'	2.39	0.69
1:AA:2329:G:H1	1:AA:2386:C:H42	1.34	0.69
1:AA:2850:A:H2'	1:AA:2851:A:H8	1.56	0.69
2:AB:42:C:N3	7:AG:93:THR:HB	2.07	0.69
3:AC:97:GLU:HB3	3:AC:126:LYS:NZ	2.08	0.69
4:AD:27:THR:C	4:AD:29:PRO:HD2	2.17	0.69
4:AD:176:ARG:HB2	4:AD:182:LEU:HD21	1.75	0.69
6:AF:110:LEU:CD2	6:AF:186:ILE:HD11	2.21	0.69
7:AG:36:LYS:HZ3	7:AG:38:VAL:N	1.91	0.69
8:AH:74:ASN:HB2	8:AH:138:LYS:HZ3	1.55	0.69
8:AH:113:VAL:HG12	8:AH:113:VAL:O	1.91	0.69
9:AI:152:VAL:O	9:AI:155:GLY:C	2.35	0.69
10:AJ:52:ILE:HG13	10:AJ:76:TYR:CB	2.22	0.69
12:AL:11:ALA:HB1	12:AL:97:ARG:HH22	1.58	0.69
12:AL:37:ASP:H	12:AL:61:VAL:CB	2.06	0.69
13:AM:96:THR:C	13:AM:102:ARG:HD3	2.17	0.69
13:AM:108:LYS:CD	13:AM:109:GLY:H	2.05	0.69
15:AO:96:ARG:HB2	15:AO:117:VAL:HB	1.73	0.69
16:AP:26:LEU:HD22	16:AP:27:SER:H	1.55	0.69
16:AP:49:VAL:HG13	16:AP:76:LYS:HZ1	1.57	0.69
17:AQ:55:ASN:ND2	17:AQ:57:PHE:CZ	2.60	0.69
19:AS:11:GLN:OE1	19:AS:22:VAL:HB	1.93	0.69
20:AT:33:ARG:HE	20:AT:33:ARG:CA	2.04	0.69
20:AT:60:ASN:HD21	20:AT:61:ASN:ND2	1.89	0.69
23:AW:129:SER:HB3	23:AW:133:ILE:CG2	2.21	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:38:GLY:O	31:Ae:41:ILE:N	2.25	0.69
32:Af:20:HIS:HB2	32:Af:22:ARG:CG	2.16	0.69
34:BA:640:A:C2'	34:BA:641:U:H5'	2.23	0.69
34:BA:944:G:H3'	34:BA:945:G:C5'	2.21	0.69
34:BA:1073:U:O2'	34:BA:1074:G:H5'	1.91	0.69
34:BA:1315:U:C2	34:BA:1361:G:H1'	2.26	0.69
34:BA:1347:G:C8	42:BM:107:ARG:HB3	2.28	0.69
34:BA:1382:C:H2'	34:BA:1383:C:H6	1.56	0.69
35:BF:223:ILE:HG21	35:BF:229:VAL:HA	1.73	0.69
36:BG:187:ALA:H	36:BG:198:VAL:HG22	1.56	0.69
38:BI:9:LYS:HE2	38:BI:9:LYS:HA	1.75	0.69
40:BK:143:ARG:CD	40:BK:144:MET:N	2.55	0.69
49:BT:51:VAL:HG21	49:BT:73:LEU:CD1	2.23	0.69
51:BV:47:THR:O	51:BV:82:THR:HA	1.92	0.69
52:BW:3:ARG:C	52:BW:5:LEU:HB3	2.18	0.69
55:CA:172:ALA:HA	55:CA:179:MET:HE3	1.73	0.69
1:AA:58:G:H1'	1:AA:70:G:N2	2.07	0.69
1:AA:162:U:H3'	1:AA:163:U:C5'	2.22	0.69
1:AA:202:U:H2'	1:AA:203:C:C6	2.26	0.69
1:AA:242:G:H5''	31:Ae:4:MET:CE	2.23	0.69
1:AA:270(K):C:H3'	1:AA:270(L):U:H6	1.57	0.69
1:AA:284:U:OP2	1:AA:284:U:C6	2.45	0.69
1:AA:672:C:OP2	13:AM:38:GLN:HG2	1.93	0.69
1:AA:902:C:H2'	1:AA:903:C:C4	2.27	0.69
1:AA:996:A:H4'	18:AR:93:LYS:CG	2.20	0.69
1:AA:1116:C:H2'	1:AA:1117:G:C8	2.26	0.69
1:AA:1312:U:H5	21:AU:62:LYS:HG3	1.56	0.69
1:AA:1451:C:OP2	1:AA:1451:C:O4'	2.11	0.69
1:AA:1501:C:O4'	4:AD:100:GLY:HA2	1.93	0.69
1:AA:1779:U:C6	1:AA:1779:U:O5'	2.46	0.69
1:AA:1872:A:H2'	1:AA:1878:G:C5'	2.13	0.69
1:AA:1948:G:O2'	1:AA:1949:G:H5'	1.93	0.69
1:AA:2096:U:H2'	1:AA:2097:C:H5	1.56	0.69
1:AA:2114:A:C2'	1:AA:2115:G:H5'	2.22	0.69
1:AA:2572:A:C2	5:AE:144:ARG:NH2	2.61	0.69
1:AA:2584:U:H6	1:AA:2584:U:H3'	1.57	0.69
2:AB:4:C:N3	2:AB:117:G:N2	2.41	0.69
2:AB:33:G:H2'	2:AB:34:U:H6	1.54	0.69
2:AB:83:G:N2	2:AB:84:C:C2	2.60	0.69
3:AC:43:VAL:CG2	3:AC:214:VAL:HG22	2.23	0.69
3:AC:59:ARG:NH1	3:AC:164:ARG:HG2	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:48:GLN:N	5:AE:48:GLN:CD	2.51	0.69
5:AE:92:THR:C	5:AE:94:GLU:N	2.49	0.69
6:AF:19:GLU:C	6:AF:20:LEU:CD2	2.51	0.69
6:AF:200:GLU:OE1	6:AF:201:VAL:N	2.22	0.69
8:AH:97:ARG:H	8:AH:104:GLU:HB2	1.57	0.69
11:AK:13:TRP:O	11:AK:14:VAL:HG22	1.93	0.69
11:AK:18:ALA:HB2	11:AK:54:VAL:CG2	2.22	0.69
11:AK:37:LYS:HD2	11:AK:43:THR:CA	2.21	0.69
12:AL:63:VAL:HG22	12:AL:82:ASN:H	1.56	0.69
12:AL:107:ARG:O	12:AL:109:LYS:HG3	1.93	0.69
13:AM:113:LYS:HA	13:AM:129:ALA:O	1.92	0.69
14:AN:6:ARG:HG2	14:AN:7:MET:N	2.08	0.69
14:AN:75:THR:HA	14:AN:91:GLU:CD	2.18	0.69
17:AQ:72:VAL:HB	17:AQ:74:ARG:CZ	2.22	0.69
18:AR:94:ASN:HD22	19:AS:6:LYS:HE3	1.51	0.69
18:AR:97:ASP:CB	18:AR:101:ARG:HH21	2.05	0.69
23:AW:7:ALA:HB2	23:AW:38:TYR:CG	2.27	0.69
25:AY:45:ILE:CG1	25:AY:46:ARG:N	2.56	0.69
25:AY:63:ARG:O	25:AY:66:ASN:HB3	1.93	0.69
29:Ac:25:LYS:CE	31:Ae:35:GLN:O	2.40	0.69
31:Ae:6:THR:O	31:Ae:7:HIS:C	2.36	0.69
34:BA:16:A:C1'	38:BI:17:ALA:HB3	2.22	0.69
34:BA:208:U:H4'	34:BA:209:U:OP1	1.92	0.69
34:BA:517:G:HO2'	34:BA:530:G:H4'	1.58	0.69
34:BA:572:A:OP1	34:BA:573:A:OP1	2.10	0.69
34:BA:608:A:H2'	34:BA:608:A:N3	2.08	0.69
34:BA:654:G:C2	34:BA:753:A:H1'	2.27	0.69
34:BA:1164:G:C2	34:BA:1165:C:C2	2.80	0.69
34:BA:1213:A:C6	34:BA:1215:G:C2	2.81	0.69
34:BA:1415:G:N1	34:BA:1486:G:C6	2.60	0.69
35:BF:35:GLU:O	35:BF:36:ARG:CZ	2.40	0.69
35:BF:61:LEU:HD11	35:BF:68:ILE:HD11	1.73	0.69
35:BF:173:ALA:O	35:BF:176:GLU:HB2	1.93	0.69
35:BF:192:SER:O	35:BF:194:PRO:HD3	1.92	0.69
37:BH:112:VAL:CG2	37:BH:161:ASN:HD21	2.05	0.69
40:BK:64:GLN:HB3	40:BK:128:ALA:HB1	1.74	0.69
41:BL:9:MET:HG2	41:BL:13:ILE:CD1	2.22	0.69
45:BP:32:PHE:HB3	45:BP:84:LEU:HD21	1.74	0.69
49:BT:39:TYR:OH	49:BT:41:PRO:HG3	1.93	0.69
49:BT:60:LEU:HA	49:BT:64:ALA:CB	2.19	0.69
53:BX:55:ILE:O	53:BX:57:ARG:N	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:64:ILE:CD1	55:CA:187:TYR:C	2.65	0.69
55:CA:374:ARG:O	55:CA:582:PRO:CB	2.41	0.69
1:AA:143:C:C2	1:AA:144:C:C5	2.80	0.69
1:AA:152:G:H22	1:AA:175:G:C1'	2.02	0.69
1:AA:412:A:C2	1:AA:413:C:H1'	2.27	0.69
1:AA:491:G:H2'	1:AA:492:A:C8	2.28	0.69
1:AA:746:A:C6	1:AA:2611:U:H4'	2.28	0.69
1:AA:959:A:H2'	1:AA:960:A:C8	2.27	0.69
1:AA:1000:A:N7	1:AA:1001:A:C6	2.60	0.69
1:AA:1028:A:C2	1:AA:2486:G:O2'	2.43	0.69
1:AA:1080:C:C1'	10:AJ:129:GLY:H	2.05	0.69
1:AA:1291:C:H4'	1:AA:1535:U:O3'	1.93	0.69
1:AA:1345:C:OP1	1:AA:1385:G:H5''	1.92	0.69
1:AA:1375:C:C2	1:AA:1376:C:C5	2.80	0.69
1:AA:1933:G:N2	1:AA:1974:C:H5'	2.02	0.69
1:AA:1936:A:H5'	1:AA:1937:A:C2	2.28	0.69
1:AA:1939:U:H1'	1:AA:2592:G:H1'	1.72	0.69
1:AA:2205:C:O2'	1:AA:2206:C:H5'	1.92	0.69
1:AA:2213:U:C5'	1:AA:2215:G:N7	2.53	0.69
1:AA:2228:G:N7	1:AA:2229:C:C5	2.60	0.69
1:AA:2265:U:H2'	1:AA:2266:A:OP1	1.92	0.69
1:AA:2291:U:H2'	1:AA:2292:C:C6	2.28	0.69
1:AA:2468:G:P	1:AA:2476:A:H61	2.15	0.69
1:AA:2485:G:O2'	1:AA:2486:G:H5'	1.92	0.69
1:AA:2668:G:C2	1:AA:2669:G:C5	2.80	0.69
1:AA:2749:A:H5'	8:AH:62:LYS:C	2.18	0.69
2:AB:23:G:H2'	2:AB:24:G:C8	2.27	0.69
2:AB:114:G:H2'	2:AB:115:G:O4'	1.91	0.69
4:AD:147:LEU:CB	4:AD:185:VAL:HG22	2.16	0.69
5:AE:102:VAL:HG23	5:AE:200:GLU:CD	2.18	0.69
6:AF:82:ILE:CD1	6:AF:82:ILE:N	2.56	0.69
6:AF:205:ARG:O	6:AF:208:GLY:N	2.26	0.69
11:AK:55:VAL:N	11:AK:130:HIS:CE1	2.60	0.69
11:AK:72:TYR:CD1	11:AK:72:TYR:C	2.71	0.69
12:AL:7:TYR:CB	12:AL:18:LYS:HE3	2.21	0.69
12:AL:68:GLU:HG2	12:AL:76:ALA:O	1.92	0.69
12:AL:77:ILE:HD13	17:AQ:65:LYS:NZ	2.08	0.69
13:AM:36:LYS:NZ	13:AM:42:SER:OG	2.21	0.69
14:AN:6:ARG:NH2	14:AN:8:LYS:H	1.90	0.69
14:AN:34:LEU:HB2	14:AN:67:ARG:NH2	2.03	0.69
14:AN:55:VAL:HG22	14:AN:64:ILE:HD11	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:116:GLU:OE1	14:AN:119:ARG:HD3	1.93	0.69
14:AN:127:ILE:HD12	14:AN:127:ILE:N	2.08	0.69
18:AR:94:ASN:HD22	19:AS:6:LYS:NZ	1.89	0.69
19:AS:33:VAL:HG12	19:AS:34:GLU:N	2.07	0.69
19:AS:78:LYS:CB	19:AS:84:LYS:HB3	2.23	0.69
20:AT:11:ARG:HG2	20:AT:11:ARG:O	1.92	0.69
25:AY:36:ILE:HG23	25:AY:37:GLY:N	2.06	0.69
26:AZ:6:VAL:CG1	26:AZ:56:VAL:HA	2.23	0.69
28:Ab:58:LEU:CD2	28:Ab:59:GLU:H	1.94	0.69
30:Ad:31:LEU:C	30:Ad:35:ARG:HD3	2.18	0.69
30:Ad:42:LEU:O	30:Ad:45:ALA:N	2.25	0.69
34:BA:379:C:H2'	34:BA:380:G:H5'	1.75	0.69
34:BA:529:G:N1	45:BP:49:ASN:ND2	2.40	0.69
34:BA:564:C:OP1	45:BP:15:ARG:CZ	2.41	0.69
34:BA:580:U:H4'	48:BS:58:MET:HG2	1.73	0.69
34:BA:792:A:H2'	34:BA:794:A:N6	2.00	0.69
34:BA:836:G:P	51:BV:61:LYS:HZ1	2.16	0.69
34:BA:878:G:H5''	41:BL:89:PRO:HG2	1.73	0.69
34:BA:953:G:H2'	34:BA:954:G:C8	2.27	0.69
34:BA:1115:C:N3	34:BA:1186:G:O6	2.24	0.69
35:BF:43:ASP:OD1	35:BF:44:LEU:HG	1.93	0.69
35:BF:185:ILE:HG22	35:BF:199:TYR:HB2	1.73	0.69
37:BH:78:LEU:CD1	37:BH:96:LEU:HB3	2.22	0.69
41:BL:32:LYS:O	41:BL:36:LEU:HD23	1.93	0.69
41:BL:61:VAL:CG1	41:BL:62:TYR:N	2.56	0.69
41:BL:112:LEU:HD21	41:BL:114:THR:CG2	2.22	0.69
45:BP:27:LEU:HD23	45:BP:33:ARG:HD3	1.74	0.69
52:BW:9:VAL:HG22	52:BW:42:PRO:HB2	0.75	0.69
53:BX:42:GLN:O	53:BX:45:GLN:HB2	1.92	0.69
55:CA:37:GLU:HA	55:CA:39:GLN:HB2	1.74	0.69
55:CA:80:ASP:OD1	55:CA:364:LEU:CB	2.37	0.69
1:AA:64:A:H2'	1:AA:65:C:C5'	2.23	0.69
1:AA:126:A:N7	1:AA:127:A:C5	2.60	0.69
1:AA:172:C:H2'	1:AA:173:G:C8	2.22	0.69
1:AA:197:A:H61	1:AA:248:G:N2	1.88	0.69
1:AA:312:G:H3'	1:AA:313:C:C5	2.28	0.69
1:AA:371:A:O2'	1:AA:372:G:P	2.51	0.69
1:AA:499:U:H5	1:AA:500:G:N3	1.90	0.69
1:AA:585:G:C6	1:AA:1251:C:C5	2.81	0.69
1:AA:668:G:C5	1:AA:670:A:N7	2.61	0.69
1:AA:673:C:C4'	6:AF:82:ILE:HD12	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:751:A:N7	1:AA:789:A:C6	2.61	0.69
1:AA:764:A:N6	1:AA:1789:A:H2	1.90	0.69
1:AA:881:G:N7	1:AA:896:A:C2	2.61	0.69
1:AA:930:U:O2'	1:AA:931:G:O5'	2.10	0.69
1:AA:1012:U:C4	11:AK:25:ARG:HB3	2.26	0.69
1:AA:1057:A:H2'	1:AA:1058:G:C8	2.27	0.69
1:AA:1139:G:P	11:AK:63:THR:HG21	2.32	0.69
1:AA:1252:G:H22	18:AR:37:GLU:CG	2.00	0.69
1:AA:1388:G:O2'	1:AA:1525:G:H5'	1.91	0.69
1:AA:1404:C:O2'	1:AA:1405:U:H5'	1.93	0.69
1:AA:1498:C:H1'	1:AA:1576:U:C4'	2.23	0.69
1:AA:1516:U:H2'	1:AA:1517:G:H8	1.58	0.69
1:AA:1632:A:C2	1:AA:1633:G:N2	2.60	0.69
1:AA:1780:A:OP2	1:AA:1782:C:P	2.51	0.69
1:AA:1813:G:O2'	4:AD:46:GLN:HG2	1.91	0.69
1:AA:1837:C:O2'	1:AA:1927:A:H1'	1.93	0.69
1:AA:1916:A:N6	34:BA:1409:C:O2'	2.26	0.69
1:AA:1966:A:N3	1:AA:2593:U:C5'	2.53	0.69
1:AA:1995:U:C5	1:AA:1996:C:C5	2.80	0.69
1:AA:2097:C:N4	1:AA:2193:G:O6	2.26	0.69
1:AA:2262:U:H4'	1:AA:2328:A:H2	1.56	0.69
1:AA:2266:A:H5''	1:AA:2267:A:O5'	1.93	0.69
1:AA:2277:G:H5''	24:AX:12:ASN:ND2	2.08	0.69
1:AA:2282:G:C2	1:AA:2425:A:C8	2.81	0.69
1:AA:2329:G:H2'	1:AA:2330:G:H8	1.58	0.69
1:AA:2384:G:H3'	1:AA:2385:C:O3'	1.93	0.69
1:AA:2589:A:H2'	1:AA:2590:A:H8	1.58	0.69
1:AA:2597:G:C4'	4:AD:242:ARG:NE	2.56	0.69
1:AA:2616:C:H2'	1:AA:2617:C:C6	2.27	0.69
1:AA:2764:A:H5'	1:AA:2765:A:OP2	1.92	0.69
1:AA:2792:G:C2	1:AA:2793:G:C5	2.81	0.69
4:AD:45:ASN:C	4:AD:46:GLN:HG3	2.17	0.69
4:AD:106:ILE:O	4:AD:107:ALA:HB2	1.93	0.69
4:AD:246:PRO:O	4:AD:250:TRP:HB2	1.92	0.69
5:AE:14:ILE:HA	5:AE:19:ARG:HA	1.73	0.69
5:AE:147:PRO:CD	5:AE:148:GLY:H	2.04	0.69
5:AE:147:PRO:CB	5:AE:149:ARG:HD2	2.22	0.69
6:AF:186:ILE:HG22	6:AF:187:VAL:N	2.06	0.69
7:AG:20:ILE:HD12	7:AG:28:VAL:HG13	1.75	0.69
7:AG:37:VAL:CG2	7:AG:159:VAL:HG12	2.23	0.69
7:AG:144:ILE:HD12	7:AG:147:ASP:OD1	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:8:PRO:N	8:AH:69:ARG:HH21	1.90	0.69
8:AH:76:VAL:HA	8:AH:79:VAL:HG22	1.73	0.69
8:AH:83:TYR:H	8:AH:136:ILE:HA	1.58	0.69
10:AJ:14:ALA:C	10:AJ:48:MET:O	2.35	0.69
11:AK:14:VAL:HG13	11:AK:138:LEU:CB	2.21	0.69
12:AL:79:PHE:HB2	17:AQ:73:GLU:HG3	1.73	0.69
13:AM:46:LYS:CB	13:AM:49:ARG:CZ	2.68	0.69
13:AM:122:PRO:HG3	13:AM:137:LYS:O	1.91	0.69
13:AM:122:PRO:HA	13:AM:134:ALA:HA	1.74	0.69
14:AN:42:ILE:HG23	14:AN:42:ILE:O	1.92	0.69
17:AQ:34:VAL:HG21	17:AQ:36:GLU:OE2	1.93	0.69
17:AQ:53:ARG:NE	17:AQ:53:ARG:CA	2.45	0.69
17:AQ:64:ARG:O	17:AQ:65:LYS:C	2.35	0.69
18:AR:48:ALA:HA	18:AR:51:LYS:HD2	1.75	0.69
18:AR:74:LEU:CD2	18:AR:78:THR:HG21	2.21	0.69
19:AS:61:VAL:HG12	19:AS:62:LEU:N	2.07	0.69
20:AT:11:ARG:HH11	20:AT:11:ARG:N	1.89	0.69
22:AV:17:SER:OG	22:AV:18:GLY:N	2.26	0.69
23:AW:4:ARG:HD3	23:AW:38:TYR:C	2.18	0.69
23:AW:28:MET:CE	23:AW:88:PHE:HB2	2.22	0.69
23:AW:45:ASP:N	23:AW:45:ASP:OD1	2.25	0.69
24:AX:41:ARG:HB3	24:AX:41:ARG:HH11	1.56	0.69
26:AZ:23:LEU:HD11	26:AZ:53:LEU:HD13	1.74	0.69
28:Ab:13:LYS:HB3	28:Ab:16:ARG:NH2	2.08	0.69
29:Ac:19:ARG:HB2	29:Ac:43:CYS:SG	2.33	0.69
29:Ac:20:ASN:HD21	29:Ac:43:CYS:CA	2.06	0.69
31:Ae:4:MET:HE1	31:Ae:62:LEU:CG	2.22	0.69
31:Ae:30:ARG:NH1	31:Ae:41:ILE:HG22	2.07	0.69
32:Af:22:ARG:HB3	32:Af:24:TYR:CD1	2.28	0.69
34:BA:317:G:OP1	34:BA:353:A:N6	2.25	0.69
34:BA:370:C:C2	34:BA:371:G:C8	2.81	0.69
34:BA:432:A:N7	34:BA:433:C:C5	2.61	0.69
34:BA:465:A:N7	34:BA:467:G:C2	2.60	0.69
34:BA:511:C:O2'	34:BA:512:U:H6	1.75	0.69
34:BA:529:G:C8	34:BA:529:G:C3'	2.75	0.69
34:BA:540:G:C6	34:BA:541:G:C5	2.80	0.69
34:BA:571:U:H6	34:BA:571:U:H5''	1.58	0.69
34:BA:642:A:N7	41:BL:115:SER:HA	2.08	0.69
34:BA:745:C:H5'	34:BA:851:G:N3	2.08	0.69
34:BA:865:A:H5'	34:BA:1078:U:C4	2.27	0.69
34:BA:1115:C:C1'	34:BA:1186:G:C2	2.76	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1250:A:N3	34:BA:1370:G:O2'	2.26	0.69
34:BA:1270:C:C4'	34:BA:1313:U:C4'	2.59	0.69
34:BA:1289:A:O2'	34:BA:1290:G:H5'	1.92	0.69
34:BA:1367:C:P	42:BM:115:GLY:HA2	2.32	0.69
34:BA:1407:C:H2'	34:BA:1408:A:H5'	1.74	0.69
34:BA:1442:G:N3	34:BA:1442:G:H3'	2.08	0.69
35:BF:49:GLU:O	35:BF:52:GLU:CD	2.36	0.69
35:BF:136:VAL:N	35:BF:139:LYS:HZ2	1.90	0.69
36:BG:118:GLN:O	36:BG:122:GLU:HG3	1.93	0.69
37:BH:205:GLU:CD	38:BI:100:VAL:HB	2.17	0.69
38:BI:79:GLU:HB3	38:BI:91:LEU:O	1.93	0.69
38:BI:118:ILE:O	38:BI:119:LEU:HD23	1.92	0.69
40:BK:78:ARG:HE	40:BK:80:VAL:HG23	1.57	0.69
41:BL:9:MET:O	41:BL:13:ILE:HG13	1.93	0.69
41:BL:21:LYS:C	41:BL:63:LEU:HD13	2.18	0.69
42:BM:10:ARG:HA	42:BM:104:ARG:HE	1.57	0.69
42:BM:38:GLN:OE1	42:BM:38:GLN:HA	1.92	0.69
43:BN:8:LEU:CD1	43:BN:94:VAL:HG11	2.18	0.69
43:BN:10:GLY:HA3	43:BN:16:LEU:HD21	1.75	0.69
44:BO:104:GLN:NE2	44:BO:106:LYS:H	1.91	0.69
46:BQ:6:GLY:N	46:BQ:67:GLU:CD	2.51	0.69
46:BQ:78:ILE:HA	46:BQ:81:LEU:CD1	2.15	0.69
50:BU:24:GLU:N	50:BU:24:GLU:CD	2.51	0.69
50:BU:88:TYR:CA	50:BU:91:ARG:HH21	2.06	0.69
51:BV:53:ARG:CG	51:BV:63:GLN:HE21	2.05	0.69
51:BV:74:ARG:CA	51:BV:79:LEU:HD11	2.23	0.69
53:BX:14:LYS:N	53:BX:17:ARG:NH2	2.41	0.69
53:BX:56:MET:SD	53:BX:84:LEU:HD12	2.33	0.69
55:CA:84:GLU:HG3	55:CA:85:VAL:N	2.06	0.69
55:CA:129:LYS:HZ3	57:CA:701:GCP:C4	2.05	0.69
55:CA:164:TYR:N	55:CA:172:ALA:C	2.50	0.69
55:CA:267:LEU:HD23	55:CA:268:ALA:N	2.06	0.69
55:CA:377:GLY:C	55:CA:582:PRO:HG3	2.17	0.69
55:CA:392:ILE:C	55:CA:392:ILE:HD12	2.17	0.69
55:CA:397:GLN:HB3	55:CA:472:TYR:C	2.05	0.69
1:AA:66:C:H2'	1:AA:67:U:O5'	1.93	0.69
1:AA:213:A:H2'	1:AA:214:G:H5'	1.73	0.69
1:AA:665:C:OP2	1:AA:665:C:H6	1.76	0.69
1:AA:835:A:H4'	1:AA:2358:G:H1'	1.73	0.69
1:AA:878:A:N3	1:AA:878:A:H2'	2.07	0.69
1:AA:1009:A:O4'	18:AR:59:ARG:NH1	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1038:C:H5'	1:AA:1039:G:OP1	1.93	0.69
1:AA:1203:G:O2'	1:AA:1204:A:OP1	2.11	0.69
1:AA:1470:G:H3'	1:AA:1470:G:H8	1.58	0.69
1:AA:1491:G:C5	1:AA:1492:G:H1'	2.28	0.69
1:AA:2067:G:N2	1:AA:2069:G:H1'	2.08	0.69
1:AA:2194:G:C2	1:AA:2195:C:N4	2.60	0.69
1:AA:2287:A:C8	1:AA:2289:G:N7	2.60	0.69
1:AA:2408:U:O5'	1:AA:2408:U:C6	2.43	0.69
1:AA:2436:G:H2'	1:AA:2437:U:C6	2.28	0.69
1:AA:2672:G:H2'	1:AA:2673:G:C8	2.28	0.69
1:AA:2674:G:O2'	12:AL:29:ASN:HB3	1.93	0.69
3:AC:104:LEU:CD1	3:AC:130:ILE:HD11	2.23	0.69
5:AE:64:LYS:CA	5:AE:67:PHE:HB2	2.23	0.69
6:AF:150:GLY:O	6:AF:152:GLU:N	2.23	0.69
7:AG:39:ILE:HD13	7:AG:92:VAL:CG1	2.21	0.69
7:AG:43:LEU:HD11	7:AG:88:ILE:O	1.93	0.69
7:AG:96:ARG:O	7:AG:100:TRP:CE3	2.46	0.69
7:AG:124:SER:OG	7:AG:133:LEU:HD23	1.93	0.69
11:AK:29:LYS:O	11:AK:31:ALA:N	2.26	0.69
11:AK:139:GLU:O	11:AK:140:VAL:CG2	2.41	0.69
13:AM:78:PRO:HG2	13:AM:117:GLU:OE1	1.93	0.69
19:AS:40:LEU:C	19:AS:51:VAL:HG13	2.18	0.69
21:AU:47:PHE:HZ	21:AU:92:LEU:HD11	1.57	0.69
22:AV:19:LYS:NZ	22:AV:39:VAL:O	2.21	0.69
22:AV:28:LYS:O	22:AV:28:LYS:HG2	1.92	0.69
24:AX:59:LEU:CD2	24:AX:79:VAL:HG21	2.23	0.69
28:Ab:15:ARG:CG	28:Ab:16:ARG:N	2.56	0.69
28:Ab:21:SER:O	28:Ab:22:HIS:C	2.34	0.69
33:Ag:345:UNK:O	33:Ag:347:UNK:N	2.26	0.69
34:BA:125:U:H2'	34:BA:126:G:C8	2.28	0.69
34:BA:403:C:O3'	37:BH:122:ARG:HD2	1.93	0.69
34:BA:695:A:H2'	34:BA:696:A:O4'	1.91	0.69
34:BA:720:C:O5'	34:BA:720:C:H6	1.76	0.69
34:BA:1118:C:C6	34:BA:1179:A:N3	2.43	0.69
34:BA:1186:G:N2	47:BR:61:TRP:O	2.25	0.69
34:BA:1391:U:H2'	34:BA:1392:G:C8	2.27	0.69
34:BA:1454:G:O2'	34:BA:1455:G:H8	1.75	0.69
34:BA:1506:U:C4'	34:BA:1507:A:OP2	2.41	0.69
35:BF:83:MET:HB2	35:BF:234:PRO:HG3	1.75	0.69
35:BF:187:LEU:HD22	35:BF:201:ILE:O	1.93	0.69
37:BH:67:ILE:HD12	37:BH:67:ILE:C	2.17	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:90:GLY:HA3	37:BH:200:GLU:OE2	1.93	0.69
38:BI:86:ALA:HB3	38:BI:130:ASN:HD21	1.58	0.69
38:BI:102:ALA:HB3	38:BI:106:PRO:HB2	1.75	0.69
42:BM:16:ARG:NE	42:BM:18:PHE:CZ	2.61	0.69
43:BN:27:ALA:HB2	43:BN:85:LEU:HG	1.75	0.69
46:BQ:16:ASP:OD1	46:BQ:34:LEU:CD1	2.39	0.69
46:BQ:108:ARG:HH11	46:BQ:108:ARG:CA	2.03	0.69
50:BU:6:LEU:HD12	50:BU:6:LEU:C	2.17	0.69
50:BU:88:TYR:HA	50:BU:91:ARG:NE	2.08	0.69
51:BV:36:ASN:HB3	51:BV:40:LEU:CD2	2.23	0.69
52:BW:48:THR:HA	52:BW:60:VAL:O	1.92	0.69
55:CA:13:HIS:HB2	55:CA:108:GLN:CA	2.22	0.69
55:CA:89:MET:CB	55:CA:119:TYR:CE2	2.67	0.69
55:CA:249:ALA:HB2	55:CA:275:ALA:HB1	1.75	0.69
55:CA:398:GLU:OE1	55:CA:444:PRO:HB2	1.92	0.69
55:CA:426:LEU:CD1	55:CA:441:TYR:CZ	2.52	0.69
55:CA:490:SER:O	55:CA:534:THR:HG23	1.91	0.69
1:AA:4:C:N3	1:AA:2900:A:C6	2.49	0.69
1:AA:284:U:OP2	1:AA:284:U:H6	1.76	0.69
1:AA:336:C:H4'	22:AV:67:LEU:CD2	2.21	0.69
1:AA:590:A:H2'	1:AA:591:C:O4'	1.93	0.69
1:AA:955:C:H2'	1:AA:956:G:O5'	1.93	0.69
1:AA:1019:U:C2	1:AA:1144:G:N2	2.61	0.69
1:AA:1128:A:N3	1:AA:1128:A:H2'	2.07	0.69
1:AA:1174:A:N6	1:AA:1177:A:C2	2.61	0.69
1:AA:1342:A:C2'	1:AA:1345:C:N4	2.52	0.69
1:AA:1472:A:H1'	1:AA:1473:G:C8	2.28	0.69
1:AA:1473:G:H2'	1:AA:1474:C:O4'	1.93	0.69
1:AA:1529:A:H8	1:AA:1530:G:C8	2.11	0.69
1:AA:1567:A:H5''	4:AD:59:LYS:HG2	1.75	0.69
1:AA:1618:A:H8	1:AA:1618:A:OP1	1.76	0.69
1:AA:1670:C:P	1:AA:1671:U:OP2	2.51	0.69
1:AA:1743:G:OP1	1:AA:1743:G:O3'	2.11	0.69
1:AA:1859:A:H61	1:AA:1883:G:H2'	1.58	0.69
1:AA:1859:A:H2'	1:AA:1860:G:O4'	1.93	0.69
1:AA:1988:C:O2'	1:AA:1989:G:H5'	1.93	0.69
1:AA:2168:G:N2	1:AA:2170:A:H3'	2.08	0.69
1:AA:2415:G:H5''	13:AM:61:ARG:CB	2.23	0.69
1:AA:2448:A:P	1:AA:2499:C:OP2	2.50	0.69
1:AA:2468:G:C8	1:AA:2476:A:N1	2.61	0.69
1:AA:2615:U:H2'	1:AA:2616:C:H6	1.58	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2657:A:C8	1:AA:2664:G:N2	2.56	0.69
1:AA:2665:A:N3	1:AA:2666:C:N3	2.40	0.69
1:AA:2807:G:C2	1:AA:2808:U:C6	2.80	0.69
3:AC:86:ALA:HB1	3:AC:153:ILE:HD12	1.73	0.69
4:AD:180:GLY:O	4:AD:270:ILE:HG21	1.93	0.69
4:AD:232:PRO:HG2	4:AD:246:PRO:C	2.18	0.69
4:AD:246:PRO:HD2	4:AD:250:TRP:C	2.18	0.69
5:AE:50:GLY:C	5:AE:76:ARG:NE	2.46	0.69
5:AE:164:ARG:C	5:AE:165:VAL:CG2	2.65	0.69
8:AH:69:ARG:HG3	8:AH:70:THR:H	1.57	0.69
8:AH:76:VAL:HG23	8:AH:77:LYS:H	1.57	0.69
8:AH:105:LEU:CB	8:AH:113:VAL:HG11	2.23	0.69
10:AJ:10:LEU:H	10:AJ:56:GLU:CG	2.04	0.69
11:AK:54:VAL:O	11:AK:122:VAL:HB	1.93	0.69
12:AL:35:VAL:HA	12:AL:61:VAL:CG1	2.23	0.69
13:AM:6:LEU:O	13:AM:6:LEU:HD23	1.92	0.69
15:AO:50:HIS:NE2	15:AO:54:LEU:HD11	2.08	0.69
17:AQ:28:VAL:N	17:AQ:93:ARG:O	2.26	0.69
17:AQ:59:THR:N	17:AQ:61:PHE:CZ	2.61	0.69
19:AS:13:ARG:O	19:AS:14:VAL:HG22	1.93	0.69
19:AS:61:VAL:CG1	19:AS:62:LEU:N	2.56	0.69
23:AW:29:TYR:HD2	23:AW:34:ASN:HD22	1.39	0.69
23:AW:63:ASP:CG	23:AW:64:GLY:N	2.51	0.69
23:AW:136:PHE:HB3	23:AW:138:GLU:OE2	1.91	0.69
26:AZ:35:ARG:HH22	26:AZ:47:VAL:CG2	2.04	0.69
27:Aa:17:GLY:HA3	27:Aa:33:VAL:O	1.93	0.69
31:Ae:6:THR:HG23	31:Ae:9:GLY:HA3	1.75	0.69
32:Af:20:HIS:C	32:Af:22:ARG:N	2.45	0.69
32:Af:29:ASN:HB3	32:Af:32:HIS:ND1	2.08	0.69
34:BA:193:C:C2	34:BA:194:C:C5	2.81	0.69
34:BA:787:A:H2'	34:BA:788:U:C5'	2.21	0.69
34:BA:948:C:H2'	34:BA:949:A:H8	1.57	0.69
34:BA:1082:G:C2'	34:BA:1083:U:H5'	2.23	0.69
34:BA:1228:C:OP1	46:BQ:115:LYS:CB	2.41	0.69
34:BA:1239:A:H1'	34:BA:1241:G:N9	2.08	0.69
34:BA:1268:A:H1'	34:BA:1311:G:H21	1.57	0.69
37:BH:121:VAL:O	37:BH:134:ASP:HB2	1.92	0.69
40:BK:74:GLU:HA	40:BK:145:ALA:HB1	1.75	0.69
41:BL:91:ARG:HG3	45:BP:7:ILE:HD12	1.74	0.69
41:BL:107:LEU:HD23	41:BL:107:LEU:N	2.08	0.69
47:BR:46:GLU:O	47:BR:49:HIS:HB2	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:26:LEU:HG	51:BV:27:GLY:O	1.92	0.69
52:BW:51:VAL:HG11	52:BW:75:ALA:HB3	1.75	0.69
55:CA:28:GLN:NE2	55:CA:183:MET:CG	2.56	0.69
1:AA:331:A:H61	1:AA:1209:G:H2'	1.58	0.68
1:AA:740:U:O4	1:AA:757:U:O2	2.10	0.68
1:AA:893:C:C5	1:AA:894:C:H5	2.12	0.68
1:AA:893:C:C5	1:AA:894:C:C5	2.80	0.68
1:AA:969:U:C2'	1:AA:970:C:H5'	2.23	0.68
1:AA:995:C:H42	11:AK:3:THR:CA	2.06	0.68
1:AA:1085:A:OP2	1:AA:1085:A:H2'	1.94	0.68
1:AA:1092:C:N4	1:AA:1093:G:N3	2.41	0.68
1:AA:1105:U:C5	1:AA:1107:G:C6	2.79	0.68
1:AA:1270:C:H5''	1:AA:1271:G:H5''	1.74	0.68
1:AA:1352:U:H1'	1:AA:1570:A:C2	2.28	0.68
1:AA:1728:G:H2'	1:AA:1728:G:N3	2.08	0.68
1:AA:1817:G:H2'	1:AA:1818:U:O4'	1.93	0.68
1:AA:1858:G:C5	1:AA:1883:G:N1	2.60	0.68
1:AA:2331:G:C2	1:AA:2385:C:N4	2.61	0.68
1:AA:2392:A:C2	1:AA:2429:G:C2	2.81	0.68
1:AA:2531:A:C2	1:AA:2658:C:C1'	2.33	0.68
1:AA:2636:U:H4'	5:AE:79:ARG:NH1	2.08	0.68
2:AB:24:G:H5''	2:AB:25:A:H5'	1.75	0.68
4:AD:178:PRO:HG2	4:AD:179:SER:H	1.58	0.68
4:AD:201:HIS:HD2	4:AD:202:LYS:HE2	1.57	0.68
5:AE:47:VAL:HG13	5:AE:79:ARG:HB2	1.73	0.68
5:AE:49:LEU:HD13	5:AE:76:ARG:HG2	1.75	0.68
5:AE:176:ILE:HG21	5:AE:181:LEU:HB2	1.73	0.68
7:AG:75:LYS:NZ	7:AG:85:GLY:HA3	2.08	0.68
11:AK:87:LEU:HA	11:AK:90:MET:HG2	1.75	0.68
12:AL:103:ALA:HB1	12:AL:107:ARG:NE	2.07	0.68
12:AL:112:MET:O	12:AL:115:VAL:CB	2.42	0.68
13:AM:51:PHE:C	13:AM:55:ARG:HG3	2.18	0.68
16:AP:9:ARG:NH1	16:AP:9:ARG:H	1.89	0.68
16:AP:11:LYS:HB3	16:AP:15:ARG:HH12	1.58	0.68
16:AP:33:LYS:HG2	16:AP:54:LEU:CD2	2.23	0.68
19:AS:62:LEU:HD11	19:AS:96:ILE:HD13	1.75	0.68
19:AS:63:GLY:O	19:AS:97:LYS:HB2	1.91	0.68
20:AT:28:SER:H	20:AT:31:GLU:CD	2.01	0.68
23:AW:48:PHE:CE1	23:AW:86:VAL:HG11	2.27	0.68
24:AX:28:GLY:CA	24:AX:67:VAL:HB	2.23	0.68
28:Ab:18:ALA:C	28:Ab:21:SER:OG	2.36	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:1:MET:N	31:Ae:2:PRO:HD2	2.08	0.68
31:Ae:6:THR:O	31:Ae:6:THR:HG23	1.92	0.68
34:BA:197:A:O4'	34:BA:197:A:P	2.50	0.68
34:BA:236:G:C3'	34:BA:237:C:H6	2.05	0.68
34:BA:345:C:H5''	34:BA:346:G:OP1	1.93	0.68
34:BA:474:G:H5'	49:BT:81:ARG:CG	2.22	0.68
34:BA:535:A:H4'	34:BA:536:C:OP2	1.92	0.68
34:BA:597:G:N2	41:BL:94:TYR:CE2	2.57	0.68
34:BA:1268:A:H2	34:BA:1311:G:N3	1.87	0.68
34:BA:1309:G:O2'	46:BQ:74:VAL:HG22	1.93	0.68
34:BA:1326:C:H5''	54:BY:12:LYS:HZ1	1.57	0.68
35:BF:219:VAL:CG1	35:BF:223:ILE:HD11	2.14	0.68
36:BG:6:HIS:HB3	47:BR:49:HIS:CE1	2.28	0.68
36:BG:7:PRO:O	36:BG:11:ARG:HG2	1.93	0.68
36:BG:11:ARG:HG3	36:BG:16:ARG:NH2	2.06	0.68
37:BH:199:ASN:CG	37:BH:200:GLU:H	1.99	0.68
37:BH:204:ILE:HD12	37:BH:204:ILE:H	1.58	0.68
38:BI:122:GLU:CG	38:BI:126:ARG:HG3	2.23	0.68
39:BJ:8:ILE:HG23	39:BJ:88:VAL:HA	1.73	0.68
40:BK:70:LYS:HB3	40:BK:96:GLN:HG2	1.75	0.68
43:BN:76:ASN:O	43:BN:78:ASN:N	2.26	0.68
48:BS:25:THR:O	48:BS:29:VAL:HG23	1.94	0.68
48:BS:36:ILE:HD11	48:BS:60:VAL:CG1	2.22	0.68
49:BT:32:TYR:N	49:BT:32:TYR:CD1	2.62	0.68
50:BU:4:LYS:O	50:BU:5:VAL:HG23	1.93	0.68
52:BW:5:LEU:CG	52:BW:6:LYS:H	2.06	0.68
52:BW:51:VAL:HG11	52:BW:75:ALA:HB2	1.74	0.68
53:BX:56:MET:HG2	53:BX:88:VAL:CG2	2.22	0.68
55:CA:64:ILE:H	55:CA:65:LYS:HG2	1.59	0.68
55:CA:213:ASP:OD1	55:CA:221:ILE:HB	1.93	0.68
55:CA:322:GLU:N	55:CA:323:GLY:HA3	1.99	0.68
55:CA:406:ASP:HA	55:CA:407:VAL:CG1	2.23	0.68
1:AA:4:C:N4	1:AA:2899:G:O6	2.25	0.68
1:AA:26:G:H22	1:AA:27:G:N2	1.91	0.68
1:AA:172:C:C2'	1:AA:173:G:H8	2.05	0.68
1:AA:179:G:H5'	30:Ad:32:LYS:HZ3	1.58	0.68
1:AA:221:A:O2'	1:AA:271(B):G:C6	2.46	0.68
1:AA:512:G:OP2	1:AA:1235:G:H5'	1.92	0.68
1:AA:532:A:H3'	1:AA:533:G:O4'	1.92	0.68
1:AA:673:C:N4	1:AA:808:G:N1	2.41	0.68
1:AA:783:A:H2'	1:AA:784:A:C5'	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:988:A:OP1	26:AZ:10:LYS:NZ	2.24	0.68
1:AA:1535:U:C2'	1:AA:1536:A:O4'	2.36	0.68
1:AA:1731:G:H22	1:AA:1733:G:N2	1.91	0.68
1:AA:1929:G:O2'	1:AA:1930:G:H5''	1.92	0.68
1:AA:2112:G:H2'	1:AA:2112:G:N3	2.07	0.68
1:AA:2219:G:H2'	1:AA:2224:G:H5'	1.74	0.68
1:AA:2226:C:O2	1:AA:2227:A:O4'	2.10	0.68
1:AA:2346:A:C4'	1:AA:2383:G:O4'	2.41	0.68
1:AA:2492:U:O2	1:AA:2492:U:C2'	2.40	0.68
1:AA:2493:U:C6	1:AA:2493:U:C3'	2.75	0.68
1:AA:2521:C:C2	1:AA:2522:U:C6	2.81	0.68
1:AA:2630:G:H5'	1:AA:2631:G:OP2	1.94	0.68
1:AA:2687:U:C2	1:AA:2688:U:C6	2.81	0.68
1:AA:2784:C:C4'	5:AE:41:LYS:HE2	2.23	0.68
1:AA:2848:G:N2	1:AA:2849:U:H3	1.91	0.68
5:AE:80:GLU:N	5:AE:80:GLU:OE1	2.26	0.68
5:AE:105:THR:HG23	5:AE:197:ILE:CD1	2.23	0.68
5:AE:176:ILE:CG2	5:AE:181:LEU:HB2	2.23	0.68
6:AF:9:ILE:HG13	6:AF:122:LYS:HG3	1.75	0.68
6:AF:98:SER:O	6:AF:99:TYR:HB2	1.94	0.68
7:AG:4:ASP:HA	7:AG:7:LEU:HD12	1.72	0.68
7:AG:116:ASP:O	7:AG:118:ARG:N	2.27	0.68
7:AG:163:ALA:CB	7:AG:172:LEU:HD23	2.20	0.68
11:AK:29:LYS:O	11:AK:30:ILE:C	2.36	0.68
13:AM:64:LYS:C	13:AM:64:LYS:HD2	2.19	0.68
13:AM:73:GLY:HA2	13:AM:111:ARG:CZ	2.24	0.68
14:AN:42:ILE:HD11	14:AN:46:GLN:CB	2.20	0.68
14:AN:110:THR:O	14:AN:111:GLU:CB	2.39	0.68
15:AO:83:ILE:HD12	15:AO:86:ARG:NE	2.08	0.68
16:AP:31:SER:O	16:AP:35:ILE:HB	1.93	0.68
16:AP:64:GLU:O	16:AP:65:VAL:C	2.36	0.68
18:AR:25:TRP:CE3	18:AR:26:GLY:N	2.61	0.68
20:AT:98:LYS:HZ3	20:AT:98:LYS:C	2.01	0.68
27:Aa:1:MET:HE1	27:Aa:9:LEU:CD2	2.23	0.68
28:Ab:43:HIS:O	28:Ab:44:THR:HG23	1.93	0.68
29:Ac:14:THR:HG22	29:Ac:51:GLU:CG	2.21	0.68
32:Af:9:ARG:HD3	32:Af:14:CYS:O	1.93	0.68
34:BA:314:C:H5''	34:BA:315:A:OP2	1.94	0.68
34:BA:608:A:C2	34:BA:609:A:C8	2.81	0.68
34:BA:843:U:H3'	34:BA:848:C:H5'	1.74	0.68
34:BA:1115:C:O2'	34:BA:1116:C:H5'	1.92	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1152:A:N1	34:BA:1153:C:C4	2.61	0.68
34:BA:1285:A:H4'	34:BA:1286:A:C8	2.29	0.68
34:BA:1311:G:N3	34:BA:1327:C:H1'	2.05	0.68
34:BA:1504:G:OP2	34:BA:1504:G:H3'	1.93	0.68
36:BG:116:VAL:HG11	36:BG:141:VAL:CG2	2.22	0.68
37:BH:146:ILE:HD12	37:BH:183:GLY:O	1.93	0.68
38:BI:43:LEU:HD23	38:BI:43:LEU:C	2.16	0.68
38:BI:88:LYS:HB3	38:BI:123:LEU:O	1.94	0.68
41:BL:19:VAL:HB	41:BL:21:LYS:HG2	1.74	0.68
45:BP:52:LEU:N	45:BP:52:LEU:HD23	2.08	0.68
52:BW:80:TYR:CZ	52:BW:81:ARG:HG3	2.25	0.68
53:BX:63:ILE:O	53:BX:66:ALA:HB3	1.92	0.68
55:CA:100:ASP:OD1	55:CA:129:LYS:HG3	1.93	0.68
55:CA:538:LEU:H	55:CA:539:THR:CB	2.06	0.68
1:AA:7:G:O2'	1:AA:8:A:H5'	1.93	0.68
1:AA:35:G:N2	1:AA:450:G:H21	1.92	0.68
1:AA:241:A:C2'	1:AA:242:G:H4'	2.23	0.68
1:AA:307:G:C2	1:AA:309:G:H5''	2.29	0.68
1:AA:447:A:N6	1:AA:473:G:H1'	2.08	0.68
1:AA:585:G:H1	1:AA:1253:A:P	2.17	0.68
1:AA:695:G:C6	1:AA:768:G:C6	2.81	0.68
1:AA:775:G:H2'	1:AA:794:G:C8	2.28	0.68
1:AA:781:A:C2	1:AA:1776:G:N3	2.61	0.68
1:AA:879:G:O6	1:AA:897:C:C3'	2.40	0.68
1:AA:935:C:C2	1:AA:936:C:C5	2.80	0.68
1:AA:1023:U:H5'	1:AA:1123:C:OP1	1.94	0.68
1:AA:1335:U:O2'	1:AA:1336:A:H5'	1.93	0.68
1:AA:1515:C:O2'	1:AA:1516:U:OP1	2.10	0.68
1:AA:1532:C:N4	1:AA:1540:G:N1	2.42	0.68
1:AA:1545(A):A:H8	1:AA:1545(A):A:O5'	1.75	0.68
1:AA:1835:G:C2'	1:AA:1836:C:H5'	2.23	0.68
1:AA:2011:U:H2'	1:AA:2012:G:O4'	1.92	0.68
1:AA:2015:A:H8	1:AA:2016:U:C6	2.12	0.68
1:AA:2073:C:O2'	1:AA:2074:U:H5'	1.94	0.68
1:AA:2394:C:OP1	13:AM:57:THR:HG23	1.94	0.68
1:AA:2482:G:C5	1:AA:2483:C:C6	2.81	0.68
1:AA:2648:C:N3	1:AA:2649:U:N3	2.42	0.68
1:AA:2765:A:N3	1:AA:2765:A:C2'	2.55	0.68
2:AB:4:C:C2	2:AB:117:G:N2	2.61	0.68
5:AE:40:GLU:C	5:AE:41:LYS:HE3	2.18	0.68
6:AF:133:ASN:HB3	6:AF:165:ARG:HH12	1.57	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:4:ASP:HA	7:AG:7:LEU:HB2	1.75	0.68
7:AG:44:GLY:CA	7:AG:72:ARG:HB3	2.24	0.68
8:AH:94:TYR:H	8:AH:95:ARG:HH11	1.36	0.68
11:AK:37:LYS:CE	11:AK:43:THR:HA	2.24	0.68
12:AL:106:LEU:HD13	17:AQ:39:ARG:NH2	2.08	0.68
13:AM:114:ILE:HG21	13:AM:134:ALA:CB	2.24	0.68
14:AN:111:GLU:C	14:AN:113:GLN:H	2.01	0.68
15:AO:74:LYS:HA	15:AO:77:ARG:HH22	1.59	0.68
16:AP:23:ARG:NH2	16:AP:42:ASP:CB	2.54	0.68
17:AQ:50:ILE:HD12	17:AQ:66:VAL:HG23	1.75	0.68
18:AR:82:GLY:CA	18:AR:117:GLN:HG2	2.21	0.68
19:AS:62:LEU:HD13	19:AS:98:GLU:HA	1.74	0.68
20:AT:11:ARG:H	20:AT:11:ARG:NH1	1.87	0.68
21:AU:7:VAL:HG22	25:AY:31:ARG:NH2	2.09	0.68
22:AV:42:VAL:HG23	22:AV:61:ILE:HG12	1.74	0.68
26:AZ:52:HIS:O	26:AZ:54:VAL:N	2.27	0.68
33:Ag:7:UNK:CB	33:Ag:144:UNK:N	2.57	0.68
34:BA:359:U:H2'	34:BA:360:A:C8	2.28	0.68
34:BA:394:G:C4	34:BA:395:C:C5	2.82	0.68
34:BA:518:C:O2'	34:BA:519:C:P	2.51	0.68
34:BA:592:G:H2'	34:BA:593:G:H5'	1.75	0.68
34:BA:611:A:N1	34:BA:629:G:N2	2.37	0.68
34:BA:831:U:H2'	34:BA:832:C:H6	1.59	0.68
34:BA:1063:C:C5	34:BA:1064:G:N7	2.62	0.68
34:BA:1202:G:H1'	47:BR:29:ARG:HD2	1.75	0.68
35:BF:19:HIS:CE1	35:BF:204:ASN:HD21	2.11	0.68
35:BF:80:ILE:HD12	35:BF:208:ILE:HG23	1.74	0.68
36:BG:41:GLY:O	36:BG:45:LYS:HB2	1.93	0.68
37:BH:26:CYS:HA	37:BH:31:CYS:CB	2.24	0.68
38:BI:76:ILE:HG21	38:BI:142:LEU:CB	2.23	0.68
40:BK:143:ARG:O	40:BK:146:GLU:OE1	2.11	0.68
41:BL:10:LEU:HD22	41:BL:135:CYS:SG	2.32	0.68
41:BL:13:ILE:HG22	41:BL:14:ARG:H	1.58	0.68
41:BL:86:ILE:HG21	41:BL:133:LEU:CB	2.15	0.68
44:BO:68:ALA:O	44:BO:71:LYS:HG3	1.94	0.68
45:BP:117:ARG:HH21	45:BP:124:LYS:CA	1.97	0.68
48:BS:75:PRO:O	48:BS:78:TYR:HB3	1.93	0.68
50:BU:88:TYR:O	50:BU:92:ARG:CB	2.41	0.68
50:BU:104:LYS:HD3	50:BU:105:ALA:H	1.57	0.68
51:BV:63:GLN:O	51:BV:67:ALA:HB2	1.93	0.68
55:CA:13:HIS:CD2	55:CA:106:MET:CA	2.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:164:TYR:CD1	55:CA:175:ASP:CB	2.76	0.68
55:CA:177:GLU:HG2	55:CA:178:ASP:CG	2.18	0.68
55:CA:239:ILE:HG22	55:CA:286:ASP:CG	2.18	0.68
55:CA:308:SER:HG	55:CA:357:ARG:HG3	1.58	0.68
55:CA:405:LEU:CB	55:CA:455:PHE:HZ	2.05	0.68
1:AA:1:G:N1	1:AA:2902:C:C6	2.02	0.68
1:AA:112:U:C4	1:AA:113:G:H1'	2.28	0.68
1:AA:138:G:N2	1:AA:140:A:H62	1.91	0.68
1:AA:194:G:H2'	1:AA:195:A:C8	2.27	0.68
1:AA:695:G:C6	1:AA:768:G:O6	2.46	0.68
1:AA:748:G:H3'	1:AA:750:A:OP2	1.93	0.68
1:AA:920:G:C2'	1:AA:921:G:H5'	2.23	0.68
1:AA:1024:G:C6	1:AA:1025:G:C8	2.82	0.68
1:AA:1279:G:H2'	1:AA:1280:G:C8	2.29	0.68
1:AA:1321:A:O3'	20:AT:11:ARG:NH2	2.27	0.68
1:AA:1782:C:N4	1:AA:2587:A:H61	1.92	0.68
1:AA:1815:A:O2'	1:AA:1816:G:H4'	1.94	0.68
1:AA:1832:C:C4	1:AA:1833:U:C5	2.82	0.68
1:AA:2484:G:H2'	1:AA:2485:G:H5'	1.74	0.68
1:AA:2556:C:O2'	1:AA:2557:G:H5'	1.92	0.68
1:AA:2575:C:H5''	1:AA:2576:G:OP2	1.94	0.68
1:AA:2631:G:N7	1:AA:2894:G:N7	2.42	0.68
1:AA:2661:G:H5''	55:CA:14:VAL:HG11	1.74	0.68
1:AA:2757:A:H2'	1:AA:2758:A:C5'	2.20	0.68
2:AB:29:A:H2'	2:AB:30:C:H6	1.52	0.68
2:AB:45:A:H1'	7:AG:95:ARG:CZ	2.22	0.68
4:AD:196:VAL:HG12	4:AD:198:ASN:H	1.59	0.68
5:AE:154:LYS:HZ2	5:AE:156:MET:HB2	1.56	0.68
7:AG:126:ASP:HA	7:AG:166:ASP:CG	2.18	0.68
12:AL:97:ARG:NH2	12:AL:98:VAL:C	2.48	0.68
13:AM:16:ARG:CG	13:AM:19:VAL:HG22	2.24	0.68
13:AM:47:ASP:OD2	13:AM:48:PRO:HD3	1.94	0.68
13:AM:114:ILE:HG21	13:AM:122:PRO:HA	1.75	0.68
15:AO:17:ARG:HG3	15:AO:18:LEU:H	1.57	0.68
15:AO:39:PRO:O	15:AO:40:LYS:C	2.36	0.68
15:AO:44:LEU:O	15:AO:48:VAL:HG23	1.93	0.68
19:AS:62:LEU:HD13	19:AS:97:LYS:C	2.18	0.68
21:AU:7:VAL:HG21	25:AY:28:MET:HG2	1.73	0.68
21:AU:15:GLU:HB3	21:AU:16:LYS:CE	2.23	0.68
21:AU:66:LEU:O	21:AU:66:LEU:HD12	1.93	0.68
22:AV:88:LYS:HB3	22:AV:91:GLU:OE2	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:127:LYS:HA	23:AW:164:ALA:HB3	1.76	0.68
33:Ag:288:UNK:CA	33:Ag:344:UNK:CB	2.69	0.68
34:BA:112:G:OP1	34:BA:389:A:O2'	2.12	0.68
34:BA:870:U:H5'	34:BA:871:U:OP1	1.94	0.68
34:BA:887:G:H2'	34:BA:888:G:C8	2.29	0.68
34:BA:946:A:C2'	34:BA:947:G:C8	2.75	0.68
34:BA:973:G:H22	34:BA:974:A:N6	1.89	0.68
34:BA:1292:U:H2'	34:BA:1293:G:H8	1.59	0.68
34:BA:1453:G:H2'	53:BX:36:LEU:HD11	1.71	0.68
37:BH:19:LEU:C	37:BH:21:LEU:N	2.45	0.68
37:BH:43:HIS:HB3	37:BH:46:LYS:CG	2.15	0.68
37:BH:104:VAL:HA	37:BH:107:ARG:HB2	1.74	0.68
37:BH:120:LEU:HB2	37:BH:125:HIS:CD2	2.29	0.68
37:BH:128:VAL:HG21	37:BH:133:VAL:HB	1.75	0.68
38:BI:55:VAL:HG12	38:BI:56:GLN:N	2.08	0.68
39:BJ:4:TYR:CE1	39:BJ:72:VAL:HG11	2.28	0.68
42:BM:78:LYS:HA	42:BM:81:ILE:HD12	1.74	0.68
46:BQ:25:ILE:HG22	46:BQ:26:GLY:N	2.04	0.68
48:BS:34:LEU:HG	48:BS:35:ARG:N	2.06	0.68
49:BT:20:VAL:HG13	49:BT:21:VAL:H	1.59	0.68
50:BU:58:GLU:CD	50:BU:74:LEU:HB3	2.19	0.68
53:BX:13:LEU:O	53:BX:14:LYS:C	2.36	0.68
53:BX:40:ALA:HB2	53:BX:55:ILE:HG21	1.75	0.68
1:AA:253:C:H2'	1:AA:254:G:H5'	1.76	0.68
1:AA:375:C:H2'	1:AA:376:C:C6	2.29	0.68
1:AA:482:A:N7	1:AA:506:G:N1	2.42	0.68
1:AA:618:G:C8	1:AA:618(A):C:C5	2.81	0.68
1:AA:660:G:H2'	1:AA:661:C:C6	2.29	0.68
1:AA:717:G:C2	1:AA:718:A:H1'	2.29	0.68
1:AA:974:G:O2'	1:AA:1186:G:C4	2.45	0.68
1:AA:1041:C:C2	1:AA:1115:G:C6	2.80	0.68
1:AA:1077:A:H5''	1:AA:1078:U:O2	1.94	0.68
1:AA:1082:U:N3	1:AA:1086:A:H2	1.92	0.68
1:AA:1104:C:HO2'	1:AA:1106:G:P	2.17	0.68
1:AA:1166:C:H2'	1:AA:1167:U:C6	2.28	0.68
1:AA:1177:A:C2	1:AA:1178:C:N3	2.61	0.68
1:AA:1495:A:C2	1:AA:1496:A:N6	2.62	0.68
1:AA:1697:G:H5''	1:AA:1698:A:C5'	2.21	0.68
1:AA:1770:G:H2'	1:AA:1771:C:H6	1.57	0.68
1:AA:2061:G:N2	1:AA:2063:C:O4'	2.26	0.68
1:AA:2207:C:H2'	1:AA:2208:U:C4'	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2226:C:O2'	4:AD:262:ARG:HG2	1.93	0.68
1:AA:2387:U:H1'	24:AX:41:ARG:HH21	1.56	0.68
1:AA:2546:U:H4'	1:AA:2565:A:C2	2.28	0.68
1:AA:2581:G:N2	1:AA:2610:C:C6	2.62	0.68
1:AA:2849:U:H3'	1:AA:2849:U:H6	1.58	0.68
3:AC:123:VAL:O	3:AC:127:LEU:HB2	1.94	0.68
3:AC:193:ILE:O	3:AC:197:GLU:HG3	1.94	0.68
4:AD:47:GLY:O	4:AD:49:ILE:HD12	1.93	0.68
4:AD:243:GLY:O	4:AD:244:ARG:CB	2.42	0.68
5:AE:109:LYS:HG3	5:AE:191:PRO:CG	2.18	0.68
6:AF:4:VAL:C	6:AF:20:LEU:HD12	2.14	0.68
7:AG:174:GLU:OE2	7:AG:175:LEU:HG	1.93	0.68
8:AH:26:VAL:HG12	8:AH:79:VAL:CG1	2.24	0.68
11:AK:7:LYS:HE3	11:AK:8:GLN:H	1.57	0.68
15:AO:20:LEU:HD13	15:AO:21:TYR:N	2.07	0.68
15:AO:41:ALA:CB	15:AO:114:VAL:HG21	2.22	0.68
15:AO:44:LEU:HD13	15:AO:48:VAL:CG2	2.23	0.68
15:AO:96:ARG:HG2	15:AO:98:LEU:CD1	2.23	0.68
17:AQ:24:PRO:O	17:AQ:25:GLY:O	2.10	0.68
17:AQ:29:ARG:HA	17:AQ:50:ILE:O	1.94	0.68
18:AR:45:TYR:HB3	18:AR:49:HIS:HE1	1.57	0.68
21:AU:43:VAL:HG11	21:AU:51:VAL:HG22	1.75	0.68
22:AV:9:LYS:HB2	22:AV:110:GLU:OE1	1.92	0.68
23:AW:53:ILE:HG12	23:AW:58:VAL:CG2	2.22	0.68
23:AW:70:LEU:O	23:AW:88:PHE:HA	1.94	0.68
24:AX:26:TYR:O	24:AX:67:VAL:HG21	1.94	0.68
24:AX:68:GLU:HB2	24:AX:80:HIS:O	1.93	0.68
24:AX:70:GLN:HB3	24:AX:78:TYR:O	1.94	0.68
26:AZ:7:LYS:HA	26:AZ:33:GLN:O	1.93	0.68
31:Ae:25:MET:O	31:Ae:26:LYS:C	2.35	0.68
34:BA:47:C:C4'	34:BA:48:C:H5''	2.17	0.68
34:BA:277:C:C5'	50:BU:68:ARG:HH12	2.06	0.68
34:BA:644:G:O2'	34:BA:645:C:H5'	1.94	0.68
34:BA:742:G:H2'	34:BA:743:U:O4'	1.94	0.68
34:BA:750:G:O4'	48:BS:22:THR:OG1	2.11	0.68
34:BA:915:A:H8	34:BA:915:A:O5'	1.77	0.68
34:BA:1147:C:N3	34:BA:1148:U:C4	2.61	0.68
34:BA:1189:C:O2'	36:BG:176:HIS:NE2	2.27	0.68
34:BA:1413:A:H2	34:BA:1487:G:H21	1.32	0.68
35:BF:15:VAL:HG21	35:BF:209:ARG:HB3	1.75	0.68
35:BF:95:GLN:O	35:BF:97:TRP:N	2.27	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:118:LEU:HD11	35:BF:141:GLU:OE2	1.93	0.68
36:BG:108:ASN:ND2	36:BG:111:LEU:HD13	2.09	0.68
38:BI:74:GLY:O	38:BI:115:VAL:HG12	1.92	0.68
41:BL:26:VAL:HG13	41:BL:27:PRO:N	2.06	0.68
43:BN:65:LEU:HD13	47:BR:36:PHE:CE2	2.29	0.68
45:BP:85:ILE:HD11	45:BP:98:TYR:HB3	1.75	0.68
48:BS:43:LEU:HD11	48:BS:56:LEU:HD23	1.74	0.68
51:BV:87:ARG:O	51:BV:88:LYS:C	2.37	0.68
52:BW:40:ILE:HG13	52:BW:69:HIS:O	1.93	0.68
55:CA:102:PHE:CA	55:CA:135:ALA:CB	2.71	0.68
55:CA:220:VAL:HB	55:CA:274:VAL:HG21	1.76	0.68
55:CA:240:ILE:HG22	55:CA:241:ASP:N	2.06	0.68
55:CA:240:ILE:O	55:CA:286:ASP:OD1	2.11	0.68
55:CA:401:GLU:HB3	55:CA:467:SER:HB2	1.75	0.68
55:CA:405:LEU:HD11	55:CA:464:LEU:N	1.22	0.68
1:AA:99:U:H5'	1:AA:101:G:H5''	1.76	0.68
1:AA:199:A:C6	1:AA:2433:A:C2	2.81	0.68
1:AA:223:A:C2	1:AA:422:A:N7	2.62	0.68
1:AA:287:C:H2'	1:AA:288:C:H5	1.51	0.68
1:AA:309:G:H5'	1:AA:310:A:OP2	1.93	0.68
1:AA:455:C:P	1:AA:472:A:N1	2.67	0.68
1:AA:823:G:H3'	1:AA:824:A:H8	1.57	0.68
1:AA:851:U:O2'	26:AZ:46:ASN:N	2.27	0.68
1:AA:914:C:C6	1:AA:914:C:C3'	2.72	0.68
1:AA:1131:G:O2'	1:AA:1132:A:O5'	2.10	0.68
1:AA:1263:U:H5	1:AA:1265:A:H61	1.40	0.68
1:AA:1352:U:O2'	1:AA:1353:A:H5'	1.93	0.68
1:AA:1455:G:N2	1:AA:1456:G:H1'	2.09	0.68
1:AA:1497:U:O4	1:AA:1577:C:C4'	2.42	0.68
1:AA:1700:A:OP1	1:AA:1700:A:O3'	2.11	0.68
1:AA:2009:G:H1'	15:AO:107:ASP:HA	1.74	0.68
1:AA:2150:U:C2	1:AA:2151:G:N7	2.60	0.68
1:AA:2581:G:C2	1:AA:2610:C:C6	2.82	0.68
1:AA:2615:U:C2	28:Ab:7:PRO:HA	2.29	0.68
1:AA:2742:C:H5''	32:Af:35:ARG:NH1	2.09	0.68
3:AC:103:ILE:CD1	3:AC:127:LEU:HD11	2.24	0.68
3:AC:171:ILE:HG12	3:AC:172:HIS:N	2.09	0.68
4:AD:131:LEU:CG	4:AD:132:PRO:HD2	2.22	0.68
4:AD:155:LEU:HG	4:AD:157:ARG:HE	1.57	0.68
6:AF:81:PRO:HG2	6:AF:82:ILE:CD1	2.24	0.68
6:AF:89:VAL:CG1	6:AF:90:PHE:N	2.45	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:158:THR:HG23	6:AF:159:GLY:N	2.09	0.68
8:AH:45:VAL:HG22	8:AH:50:VAL:CG1	2.21	0.68
8:AH:118:PRO:N	8:AH:121:ILE:HG21	2.08	0.68
11:AK:104:LYS:HA	11:AK:117:PHE:HZ	1.59	0.68
13:AM:99:LEU:HD13	13:AM:101:VAL:CG2	2.23	0.68
15:AO:73:VAL:HG23	15:AO:74:LYS:N	2.08	0.68
15:AO:113:LEU:HD13	15:AO:114:VAL:H	1.58	0.68
19:AS:68:LYS:HG2	19:AS:95:LEU:HD11	1.74	0.68
21:AU:43:VAL:HG12	21:AU:51:VAL:HG22	1.76	0.68
22:AV:1:MET:HE2	22:AV:67:LEU:HD23	1.76	0.68
23:AW:7:ALA:HB2	23:AW:38:TYR:CD2	2.29	0.68
25:AY:42:ASN:O	25:AY:45:ILE:HG13	1.93	0.68
28:Ab:6:VAL:O	28:Ab:6:VAL:HG13	1.94	0.68
31:Ae:15:LYS:HZ3	31:Ae:64:TYR:HB3	1.57	0.68
34:BA:153:C:H2'	34:BA:154:C:C6	2.28	0.68
34:BA:394:G:H2'	34:BA:395:C:H6	1.58	0.68
34:BA:1008:C:H2'	34:BA:1009:G:O4'	1.93	0.68
34:BA:1201:A:N3	34:BA:1201:A:H2'	2.07	0.68
34:BA:1315:U:N1	34:BA:1361:G:O4'	2.25	0.68
34:BA:1412:C:H2'	34:BA:1413:A:H8	1.57	0.68
35:BF:23:ARG:NH1	35:BF:23:ARG:HB2	2.09	0.68
35:BF:47:THR:HG22	35:BF:51:LEU:HD11	1.73	0.68
35:BF:136:VAL:HA	35:BF:139:LYS:NZ	2.09	0.68
36:BG:22:TRP:HB3	36:BG:59:ARG:CB	2.24	0.68
37:BH:88:VAL:HG22	38:BI:97:GLY:H	1.59	0.68
37:BH:148:VAL:CG2	37:BH:162:LEU:HD21	2.24	0.68
37:BH:187:ARG:HE	37:BH:188:LEU:HG	1.57	0.68
37:BH:192:GLU:N	37:BH:192:GLU:OE1	2.27	0.68
41:BL:6:ILE:HG13	41:BL:85:ARG:CZ	2.24	0.68
41:BL:45:ILE:HB	41:BL:61:VAL:HG11	1.75	0.68
42:BM:6:GLY:CA	42:BM:83:ARG:HB3	2.23	0.68
44:BO:81:ASP:OD1	44:BO:106:LYS:HD2	1.94	0.68
46:BQ:19:LEU:O	46:BQ:25:ILE:HB	1.93	0.68
47:BR:27:CYS:H	47:BR:43:CYS:HB3	1.58	0.68
48:BS:81:LEU:CD2	48:BS:85:LEU:HD13	2.23	0.68
50:BU:21:VAL:HG22	50:BU:43:LEU:HA	1.76	0.68
55:CA:173:GLY:HA3	55:CA:174:LEU:CB	2.23	0.68
55:CA:512:LEU:CG	55:CA:524:ILE:HG22	2.24	0.68
1:AA:20:C:O2'	1:AA:21:A:C5'	2.42	0.68
1:AA:563:G:N2	18:AR:34:LYS:NZ	2.42	0.68
1:AA:630:G:H1	1:AA:634:C:N4	1.91	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:727:A:C6	1:AA:729:G:C6	2.81	0.68
1:AA:810:U:OP1	1:AA:1253:A:C5	2.46	0.68
1:AA:947:G:O2'	1:AA:948:G:H5'	1.94	0.68
1:AA:1007:C:H4'	11:AK:108:PRO:HD3	1.75	0.68
1:AA:1287:A:O4'	15:AO:104:ARG:HD2	1.93	0.68
1:AA:1341:U:OP2	1:AA:1397:U:C4	2.47	0.68
1:AA:1475:G:N2	1:AA:1476:C:H5''	2.03	0.68
1:AA:1793:C:H42	1:AA:1825:A:N6	1.91	0.68
1:AA:1819:A:C3'	4:AD:178:PRO:HB2	2.22	0.68
1:AA:1970:A:O2'	1:AA:1971:A:O5'	2.12	0.68
1:AA:1992:G:O4'	1:AA:1993:U:O4	2.12	0.68
1:AA:2142:C:H2'	1:AA:2143:C:H6	1.56	0.68
1:AA:2246:G:C2	1:AA:2247:A:C6	2.82	0.68
1:AA:2416:C:O2'	1:AA:2417:C:H5''	1.94	0.68
1:AA:2428:G:H4'	1:AA:2429:G:O5'	1.94	0.68
1:AA:2495:G:O3'	14:AN:83:MET:SD	2.52	0.68
1:AA:2568:C:H2'	1:AA:2569:G:C5'	2.24	0.68
1:AA:2794:C:C4	1:AA:2799:A:N3	2.61	0.68
3:AC:211:SER:HB2	3:AC:213:TYR:CZ	2.29	0.68
4:AD:5:LYS:CD	4:AD:29:PRO:HB3	2.18	0.68
4:AD:61:LEU:HD13	4:AD:86:PRO:CD	2.22	0.68
4:AD:87:ASN:N	4:AD:87:ASN:ND2	2.27	0.68
4:AD:159:ALA:CA	4:AD:196:VAL:HG11	2.23	0.68
5:AE:33:VAL:CG1	5:AE:48:GLN:HA	2.24	0.68
5:AE:149:ARG:C	5:AE:149:ARG:HD3	2.19	0.68
6:AF:4:VAL:O	6:AF:20:LEU:HD11	1.92	0.68
6:AF:121:GLY:O	6:AF:191:ARG:HG3	1.93	0.68
8:AH:7:LEU:H	8:AH:8:PRO:HD2	1.57	0.68
12:AL:6:THR:O	12:AL:20:MET:CA	2.25	0.68
14:AN:16:ARG:CZ	14:AN:72:LYS:HA	2.24	0.68
18:AR:104:GLN:O	18:AR:108:GLU:OE1	2.12	0.68
19:AS:11:GLN:HE22	19:AS:24:LYS:CE	2.07	0.68
21:AU:15:GLU:HB3	21:AU:16:LYS:NZ	2.09	0.68
23:AW:116:VAL:HG21	23:AW:145:GLU:HG2	1.76	0.68
27:Aa:68:ARG:HH11	27:Aa:68:ARG:CB	2.07	0.68
29:Ac:25:LYS:O	29:Ac:26:ASN:ND2	2.27	0.68
31:Ae:60:LEU:HD23	31:Ae:61:LEU:N	2.09	0.68
34:BA:55:A:H2'	34:BA:56:U:C5'	2.23	0.68
34:BA:1191:A:N3	34:BA:1191:A:H2'	2.08	0.68
34:BA:1330:U:C5'	46:BQ:70:LEU:HD23	2.23	0.68
35:BF:15:VAL:HG23	35:BF:16:HIS:CE1	2.28	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:60:ASP:HB3	35:BF:64:ARG:NH1	2.07	0.68
35:BF:130:ARG:CB	35:BF:131:PRO:HD2	2.23	0.68
37:BH:14:ARG:C	37:BH:14:ARG:HD3	2.18	0.68
37:BH:102:ASP:HB2	37:BH:136:PRO:C	2.18	0.68
38:BI:43:LEU:HB3	38:BI:136:MET:CE	2.23	0.68
39:BJ:28:ARG:HG2	39:BJ:28:ARG:NH1	2.08	0.68
40:BK:38:LEU:HD12	40:BK:41:ARG:HD3	1.75	0.68
41:BL:33:GLU:HG2	41:BL:59:LEU:CD1	2.24	0.68
41:BL:36:LEU:O	41:BL:39:LEU:HB3	1.94	0.68
43:BN:7:LYS:O	43:BN:97:GLU:CB	2.40	0.68
45:BP:37:CYS:CB	45:BP:58:VAL:HG22	2.24	0.68
46:BQ:12:ASN:C	46:BQ:44:ARG:HG3	2.08	0.68
51:BV:70:ILE:CG2	51:BV:74:ARG:HE	2.01	0.68
53:BX:59:ALA:O	53:BX:60:GLU:C	2.36	0.68
55:CA:27:GLN:H	55:CA:28:GLN:HB3	0.85	0.68
55:CA:69:ARG:HE	55:CA:269:GLU:HG2	1.57	0.68
1:AA:7:G:N1	1:AA:2897:U:O5'	2.18	0.68
1:AA:28:A:C2'	1:AA:29:U:H5'	2.23	0.68
1:AA:257:A:O5'	1:AA:257:A:H8	1.77	0.68
1:AA:272:G:O2'	1:AA:273:G:H5'	1.92	0.68
1:AA:455:C:OP1	1:AA:472:A:N1	2.27	0.68
1:AA:503:A:H4'	1:AA:504:U:H5''	1.75	0.68
1:AA:764:A:OP1	4:AD:211:ARG:HA	1.94	0.68
1:AA:848:G:H2'	1:AA:849:A:H8	1.57	0.68
1:AA:881:G:C5	1:AA:896:A:N1	2.55	0.68
1:AA:945:A:H2'	1:AA:946:G:O5'	1.94	0.68
1:AA:972:G:C8	1:AA:973:A:H3'	2.29	0.68
1:AA:1007:C:O2'	11:AK:108:PRO:HB3	1.92	0.68
1:AA:1077:A:H61	1:AA:1088:A:H4'	1.59	0.68
1:AA:1196:C:N3	1:AA:1250:G:O6	2.27	0.68
1:AA:1332:G:C5	1:AA:1609:A:C6	2.82	0.68
1:AA:1332:G:N7	1:AA:1609:A:N6	2.42	0.68
1:AA:1464:C:H2'	1:AA:1465:G:H8	1.58	0.68
1:AA:1638:C:H2'	1:AA:1639:U:O4'	1.93	0.68
1:AA:1839:G:N9	1:AA:1927:A:H5'	2.09	0.68
1:AA:1949:G:H2'	1:AA:1950:G:O4'	1.94	0.68
1:AA:2018:G:H2'	1:AA:2019:A:O4'	1.94	0.68
1:AA:2135:A:C4'	1:AA:2136:C:C5	2.76	0.68
1:AA:2524:G:C5'	1:AA:2764:A:O2'	2.41	0.68
1:AA:2561:A:H2'	1:AA:2562:U:O4'	1.93	0.68
2:AB:24:G:H8	2:AB:24:G:O5'	1.77	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:23:GLU:CD	4:AD:23:GLU:C	2.62	0.68
4:AD:89:SER:HB2	4:AD:202:LYS:HZ1	1.58	0.68
4:AD:140:THR:C	4:AD:165:ILE:HD13	2.18	0.68
4:AD:210:GLY:N	4:AD:213:ARG:HE	1.92	0.68
4:AD:252:TRP:N	4:AD:255:LYS:NZ	2.41	0.68
5:AE:44:TYR:CD1	5:AE:45:THR:N	2.61	0.68
5:AE:147:PRO:CG	5:AE:149:ARG:HD2	2.23	0.68
6:AF:200:GLU:OE1	6:AF:201:VAL:CG2	2.36	0.68
8:AH:87:LEU:HD21	8:AH:162:ILE:HG13	1.76	0.68
8:AH:99:VAL:HG23	8:AH:104:GLU:HG2	1.74	0.68
10:AJ:17:ALA:CB	10:AJ:41:PHE:HB2	2.22	0.68
10:AJ:90:LYS:HA	10:AJ:90:LYS:HE2	1.76	0.68
12:AL:119:PRO:HB3	34:BA:347:G:C8	2.29	0.68
14:AN:37:LEU:HD23	14:AN:100:GLY:HA3	1.74	0.68
14:AN:62:GLY:HA2	23:AW:177:PRO:HA	1.74	0.68
15:AO:5:LYS:HE2	15:AO:5:LYS:CA	2.24	0.68
16:AP:94:TYR:C	16:AP:99:LYS:HB2	2.18	0.68
18:AR:74:LEU:HB3	18:AR:78:THR:CB	2.23	0.68
18:AR:79:PHE:O	18:AR:83:LEU:HD12	1.94	0.68
20:AT:82:LEU:H	20:AT:98:LYS:NZ	1.92	0.68
22:AV:56:PRO:O	22:AV:57:GLN:HG3	1.93	0.68
25:AY:27:LEU:CD2	25:AY:48:LEU:HB3	2.23	0.68
26:AZ:6:VAL:HG23	26:AZ:35:ARG:CG	2.14	0.68
29:Ac:16:CYS:SG	29:Ac:19:ARG:O	2.51	0.68
31:Ae:16:ILE:HD11	31:Ae:60:LEU:HD22	1.76	0.68
31:Ae:55:ALA:O	31:Ae:58:ILE:HD12	1.93	0.68
34:BA:287:U:H2'	34:BA:288:A:H5'	1.74	0.68
34:BA:315:A:N1	34:BA:330:C:C6	2.62	0.68
34:BA:373:A:N7	34:BA:482:A:N7	2.42	0.68
34:BA:551:U:H2'	34:BA:552:U:H6	1.54	0.68
34:BA:789:U:H6	34:BA:789:U:H3'	1.57	0.68
34:BA:792:A:N3	34:BA:794:A:C6	2.62	0.68
34:BA:856:C:N3	34:BA:857:C:C5	2.61	0.68
34:BA:958:A:N3	52:BW:56:GLN:NE2	2.42	0.68
34:BA:968:A:H5''	34:BA:969:A:O5'	1.94	0.68
34:BA:992:U:O4	34:BA:1043:C:OP2	2.11	0.68
34:BA:1128:C:C1'	34:BA:1146:A:H61	2.05	0.68
34:BA:1221:G:OP1	52:BW:52:TYR:O	2.11	0.68
36:BG:143:GLU:O	36:BG:145:GLY:N	2.27	0.68
37:BH:19:LEU:H	37:BH:33:MET:CE	2.01	0.68
38:BI:11:ILE:HB	38:BI:31:LEU:CD2	2.24	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:12:LEU:HD13	38:BI:30:ALA:HA	1.75	0.68
38:BI:35:GLY:HA3	38:BI:41:VAL:HG13	1.75	0.68
40:BK:2:ALA:HB1	40:BK:5:ARG:O	1.94	0.68
41:BL:29:SER:CB	41:BL:32:LYS:HZ3	2.06	0.68
41:BL:51:VAL:CG2	41:BL:60:ARG:HH21	2.06	0.68
49:BT:6:LEU:HD22	49:BT:6:LEU:C	2.18	0.68
51:BV:36:ASN:HB3	51:BV:40:LEU:HD21	1.75	0.68
55:CA:57:LEU:HD12	55:CA:255:LEU:HA	1.75	0.68
55:CA:102:PHE:HD1	55:CA:102:PHE:O	1.77	0.68
55:CA:398:GLU:O	55:CA:471:HIS:O	2.11	0.68
55:CA:580:VAL:HG12	55:CA:585:ILE:CD1	2.24	0.68
1:AA:172:C:N1	1:AA:173:G:C8	2.62	0.68
1:AA:242:G:N7	31:Ae:2:PRO:HG2	2.09	0.68
1:AA:311:A:H62	1:AA:329:G:H5'	1.59	0.68
1:AA:321:G:OP2	6:AF:135:LYS:HE3	1.94	0.68
1:AA:527:C:O4'	1:AA:2779:U:C4	2.46	0.68
1:AA:974:G:N3	1:AA:1186:G:N7	2.42	0.68
1:AA:1225:C:O5'	19:AS:87:HIS:CE1	2.47	0.68
1:AA:1250:G:O2'	1:AA:1251:C:P	2.52	0.68
1:AA:1252:G:N2	18:AR:37:GLU:HG3	2.04	0.68
1:AA:1439:A:C2'	1:AA:1440:G:H5'	2.24	0.68
1:AA:1518:C:N4	1:AA:1519:G:C8	2.62	0.68
1:AA:1938:A:N3	1:AA:2590:A:H1'	2.09	0.68
1:AA:2226:C:C2	4:AD:262:ARG:CZ	2.76	0.68
1:AA:2373:G:HO2'	1:AA:2374:C:H6	1.40	0.68
1:AA:2416:C:C2'	1:AA:2417:C:C5'	2.66	0.68
1:AA:2532:G:H2'	1:AA:2533:A:O4'	1.94	0.68
1:AA:2588:G:N7	1:AA:2589:A:N7	2.41	0.68
1:AA:2868:A:O2'	1:AA:2869:G:H5'	1.94	0.68
2:AB:14:U:C2'	2:AB:107:U:H1'	2.24	0.68
3:AC:211:SER:CB	3:AC:223:ARG:HH21	2.05	0.68
4:AD:29:PRO:CB	4:AD:82:ILE:O	2.42	0.68
4:AD:180:GLY:O	4:AD:181:GLU:OE1	2.12	0.68
4:AD:224:ALA:H	4:AD:233:HIS:CE1	2.12	0.68
5:AE:11:MET:O	5:AE:22:PRO:CD	2.38	0.68
6:AF:192:LEU:HD13	6:AF:192:LEU:C	2.18	0.68
7:AG:139:LEU:HD13	7:AG:142:PRO:CA	2.23	0.68
8:AH:43:VAL:HG12	8:AH:44:VAL:N	2.08	0.68
10:AJ:112:MET:HE1	10:AJ:119:ASP:CB	2.16	0.68
11:AK:10:GLU:HB3	11:AK:39:ARG:NH1	2.08	0.68
12:AL:26:LYS:HG3	12:AL:27:GLY:N	2.08	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:66:ILE:C	14:AN:67:ARG:HG2	2.18	0.68
15:AO:107:ASP:OD2	15:AO:109:ALA:HB2	1.94	0.68
18:AR:81:HIS:HB3	18:AR:117:GLN:NE2	2.09	0.68
22:AV:19:LYS:HG2	22:AV:39:VAL:HG12	1.75	0.68
23:AW:6:LYS:HG2	23:AW:7:ALA:H	1.54	0.68
23:AW:127:LYS:HZ2	23:AW:165:VAL:HB	1.59	0.68
30:Ad:8:ASN:O	30:Ad:9:ARG:C	2.37	0.68
30:Ad:24:THR:O	30:Ad:28:ARG:HG3	1.93	0.68
31:Ae:6:THR:O	31:Ae:9:GLY:N	2.26	0.68
32:Af:10:ILE:CD1	32:Af:32:HIS:HD2	2.07	0.68
34:BA:79:G:H2'	34:BA:80:G:O4'	1.93	0.68
34:BA:137:C:C2	34:BA:227:G:N2	2.62	0.68
34:BA:692:U:H1'	34:BA:694:A:N7	2.09	0.68
34:BA:748:C:O5'	34:BA:748:C:H6	1.76	0.68
34:BA:985:C:H2'	52:BW:55:LYS:HE3	1.76	0.68
34:BA:999:U:H2'	34:BA:1000:A:O4'	1.93	0.68
34:BA:1002:G:O4'	34:BA:1002:G:OP2	2.12	0.68
34:BA:1274:G:N2	34:BA:1275:A:N7	2.40	0.68
34:BA:1287:A:N6	34:BA:1371:G:O4'	2.27	0.68
34:BA:1307:U:O5'	34:BA:1307:U:H6	1.77	0.68
34:BA:1322:C:H5''	34:BA:1323:G:OP1	1.93	0.68
34:BA:1497:G:C2'	34:BA:1498:U:H5'	2.24	0.68
35:BF:187:LEU:CD2	35:BF:201:ILE:O	2.42	0.68
41:BL:10:LEU:HA	41:BL:13:ILE:HD12	1.74	0.68
41:BL:126:LYS:HZ2	41:BL:127:LEU:HD23	1.58	0.68
42:BM:15:ALA:HB1	42:BM:77:ILE:CG1	2.24	0.68
42:BM:82:ALA:O	42:BM:85:LEU:HB3	1.94	0.68
43:BN:27:ALA:HB2	43:BN:85:LEU:HD11	1.76	0.68
46:BQ:12:ASN:HA	46:BQ:44:ARG:O	1.93	0.68
46:BQ:16:ASP:OD2	46:BQ:17:VAL:HG23	1.94	0.68
48:BS:15:PHE:HD1	48:BS:30:ALA:HB2	1.55	0.68
50:BU:29:HIS:CE1	50:BU:31:LEU:H	2.12	0.68
53:BX:40:ALA:HA	53:BX:55:ILE:HD13	1.74	0.68
55:CA:157:GLN:C	55:CA:158:LEU:HD12	2.19	0.68
55:CA:207:MET:HE3	55:CA:224:GLY:O	1.92	0.68
55:CA:227:LYS:CA	55:CA:267:LEU:HD11	2.23	0.68
55:CA:318:PHE:HB3	55:CA:321:LYS:HE3	1.76	0.68
55:CA:576:GLU:HA	55:CA:589:LYS:HA	1.75	0.68
1:AA:106:C:H1'	1:AA:294:A:H4'	1.76	0.68
1:AA:296:C:O2'	1:AA:297:C:O4'	2.09	0.68
1:AA:470:A:N3	1:AA:471:A:H1'	2.08	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:645:C:H5'	1:AA:646:A:OP1	1.94	0.68
1:AA:716:A:C1'	48:BS:44:LYS:HG3	2.18	0.68
1:AA:907:U:OP1	14:AN:26:TYR:CE1	2.47	0.68
1:AA:1036:G:C6	1:AA:1120:G:C6	2.68	0.68
1:AA:1213:A:O2'	1:AA:1239:G:O4'	2.12	0.68
1:AA:1339:G:C5'	21:AU:16:LYS:HD3	2.23	0.68
1:AA:1449:A:C2	1:AA:1449(A):G:H1'	2.29	0.68
1:AA:1456:G:H1	1:AA:2703:C:N4	1.91	0.68
1:AA:1918:A:C2'	34:BA:1408:A:H4'	2.24	0.68
1:AA:2019:A:N1	1:AA:2020:A:C4	2.62	0.68
1:AA:2020:A:OP2	18:AR:27:LEU:CD1	2.42	0.68
1:AA:2314:C:H2'	1:AA:2315:G:C8	2.26	0.68
1:AA:2507:C:C2	1:AA:2583:G:N3	2.62	0.68
1:AA:2834:G:O6	1:AA:2835:A:C2	2.47	0.68
2:AB:89:G:H2'	2:AB:89(A):A:N7	2.09	0.68
3:AC:76:ALA:HB2	3:AC:153:ILE:HD12	1.74	0.68
3:AC:89:ALA:HB1	3:AC:154:ARG:N	2.09	0.68
4:AD:59:LYS:HD2	4:AD:60:ARG:N	2.09	0.68
4:AD:206:LEU:HD13	4:AD:206:LEU:H	1.54	0.68
5:AE:98:PRO:HA	5:AE:172:VAL:CG2	2.23	0.68
5:AE:156:MET:SD	5:AE:157:ALA:N	2.67	0.68
7:AG:16:ARG:O	7:AG:17:PRO:C	2.34	0.68
7:AG:74:LYS:HB3	7:AG:87:PRO:HG2	1.76	0.68
7:AG:151:ALA:O	7:AG:152:LEU:HD23	1.94	0.68
8:AH:13:LYS:HG3	8:AH:15:VAL:H	1.57	0.68
11:AK:55:VAL:HG22	11:AK:125:GLY:O	1.93	0.68
11:AK:103:VAL:HG22	11:AK:104:LYS:HD3	1.75	0.68
13:AM:45:LEU:HD22	31:Ae:59:LYS:HD2	1.75	0.68
15:AO:3:HIS:ND1	15:AO:4:LEU:N	2.42	0.68
15:AO:37:THR:H	15:AO:40:LYS:HD2	1.58	0.68
15:AO:86:ARG:NH1	15:AO:86:ARG:CB	2.55	0.68
15:AO:99:LYS:HG2	28:Ab:43:HIS:CE1	2.29	0.68
18:AR:54:LYS:N	18:AR:54:LYS:HE2	2.09	0.68
21:AU:7:VAL:HG22	25:AY:31:ARG:HH22	1.59	0.68
22:AV:5:MET:SD	22:AV:33:LYS:HG2	2.34	0.68
27:Aa:58:ARG:HD3	27:Aa:59:PHE:CE2	2.29	0.68
28:Ab:29:THR:C	28:Ab:30:LEU:HG	2.19	0.68
30:Ad:47:ARG:HG2	30:Ad:48:LYS:N	2.08	0.68
34:BA:339:C:H2'	34:BA:340:U:C6	2.28	0.68
34:BA:427:U:C2	34:BA:428:G:N7	2.62	0.68
34:BA:572:A:O5'	34:BA:573:A:OP2	2.11	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:698:G:H2'	34:BA:699:C:H6	1.58	0.68
34:BA:945:G:C2	34:BA:946:A:C8	2.81	0.68
34:BA:1047:G:H5''	47:BR:4:LYS:CD	2.24	0.68
34:BA:1221:G:OP1	34:BA:1320:C:N4	2.27	0.68
34:BA:1309:G:C2	34:BA:1328:C:C5	2.81	0.68
34:BA:1487:G:O2'	34:BA:1488:G:H5'	1.94	0.68
35:BF:173:ALA:HA	35:BF:176:GLU:HG3	1.76	0.68
35:BF:222:ILE:HD12	35:BF:223:ILE:HG13	1.74	0.68
37:BH:35:ARG:O	37:BH:37:PRO:N	2.27	0.68
44:BO:78:GLN:OE1	44:BO:79:SER:N	2.27	0.68
45:BP:82:VAL:HG12	45:BP:83:VAL:N	2.08	0.68
48:BS:62:GLN:HA	48:BS:65:ARG:NH1	2.09	0.68
53:BX:12:ALA:O	53:BX:15:ARG:HG2	1.94	0.68
53:BX:73:HIS:O	53:BX:76:ALA:N	2.19	0.68
53:BX:90:GLN:O	53:BX:93:GLU:HB2	1.94	0.68
55:CA:2:ILE:HG21	55:CA:267:LEU:HD22	1.76	0.68
55:CA:48:LEU:CD2	55:CA:50:LYS:HG3	2.23	0.68
55:CA:240:ILE:CA	55:CA:286:ASP:OD1	2.42	0.68
1:AA:118:A:O2'	1:AA:178:G:H5'	1.94	0.67
1:AA:176:G:C2'	1:AA:177:G:O4'	2.42	0.67
1:AA:297:C:H2'	1:AA:298:G:O4'	1.93	0.67
1:AA:609:A:N1	1:AA:619:G:N3	2.42	0.67
1:AA:659:C:O2'	1:AA:660:G:H5'	1.93	0.67
1:AA:824:A:H3'	1:AA:825:C:C5	2.29	0.67
1:AA:988:A:O2'	1:AA:1157:G:H5'	1.94	0.67
1:AA:1033:U:H5'	32:Af:16:VAL:CG2	2.23	0.67
1:AA:1055:G:O3'	9:Al:33:PRO:HA	1.94	0.67
1:AA:1081:U:O4	1:AA:1086:A:H2	1.73	0.67
1:AA:1679:U:H3	1:AA:1764:G:H5''	1.60	0.67
1:AA:1824:G:N3	1:AA:1825:A:H1'	2.09	0.67
1:AA:1908:C:O2'	1:AA:1909:C:H5'	1.94	0.67
1:AA:1995:U:H5''	1:AA:1996:C:H5''	1.75	0.67
1:AA:2019:A:N1	1:AA:2020:A:N3	2.41	0.67
1:AA:2041:U:C2	1:AA:2042:A:C8	2.82	0.67
1:AA:2067:G:H5''	1:AA:2068:U:OP2	1.93	0.67
1:AA:2123:G:O2'	3:AC:172:HIS:HB2	1.93	0.67
1:AA:2314:C:H5'	7:AG:38:VAL:HG21	1.76	0.67
1:AA:2362:G:O2'	1:AA:2363:C:H5'	1.94	0.67
1:AA:2655:G:H3'	1:AA:2655:G:N3	2.08	0.67
3:AC:43:VAL:HG13	3:AC:213:TYR:O	1.95	0.67
3:AC:122:ALA:O	3:AC:126:LYS:HB2	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:45:ASN:OD1	4:AD:50:THR:HG23	1.94	0.67
5:AE:92:THR:HG23	5:AE:96:PHE:HB2	1.76	0.67
8:AH:69:ARG:HG3	8:AH:69:ARG:HH11	1.59	0.67
10:AJ:90:LYS:HE2	10:AJ:90:LYS:CA	2.24	0.67
11:AK:17:ASP:HB3	11:AK:21:LYS:HE3	1.76	0.67
13:AM:126:VAL:HA	13:AM:146:VAL:H	1.59	0.67
14:AN:16:ARG:HG3	14:AN:72:LYS:CD	2.22	0.67
14:AN:124:LYS:O	14:AN:125:LEU:O	2.11	0.67
16:AP:87:PHE:CG	16:AP:88:ASP:N	2.62	0.67
18:AR:44:ASN:O	18:AR:47:TYR:CB	2.27	0.67
19:AS:62:LEU:HD22	19:AS:98:GLU:CA	2.21	0.67
21:AU:49:VAL:C	21:AU:50:LYS:HD3	2.19	0.67
25:AY:27:LEU:HG	25:AY:48:LEU:HD23	1.75	0.67
30:Ad:28:ARG:O	30:Ad:31:LEU:CB	2.41	0.67
34:BA:130:A:C4	34:BA:264:U:H1'	2.28	0.67
34:BA:474:G:H5'	49:BT:81:ARG:HE	1.58	0.67
34:BA:900:A:H2'	34:BA:901:A:C8	2.29	0.67
34:BA:922:G:O2'	34:BA:1398:A:N1	2.27	0.67
34:BA:978:A:N6	34:BA:1361:G:N2	2.38	0.67
34:BA:1206:G:H4'	36:BG:192:THR:C	2.19	0.67
34:BA:1314:C:N4	34:BA:1324:A:N6	2.42	0.67
34:BA:1373:G:H5''	40:BK:36:LYS:HD2	1.76	0.67
34:BA:1402:C:H2'	34:BA:1403:C:H6	1.57	0.67
34:BA:1429:C:C2	34:BA:1430:C:C5	2.83	0.67
34:BA:1528:U:H1'	34:BA:1529:G:H21	1.59	0.67
35:BF:80:ILE:CD1	35:BF:212:GLN:HG2	2.25	0.67
35:BF:144:ARG:HD3	35:BF:148:TYR:CZ	2.29	0.67
36:BG:67:THR:HG22	36:BG:104:GLN:CG	2.24	0.67
38:BI:11:ILE:HD12	38:BI:104:ALA:HB1	1.75	0.67
38:BI:68:GLU:O	38:BI:70:PRO:HD3	1.93	0.67
38:BI:79:GLU:CB	38:BI:91:LEU:O	2.42	0.67
39:BJ:7:ASN:C	39:BJ:8:ILE:HG12	2.18	0.67
41:BL:10:LEU:CD1	41:BL:85:ARG:HD3	2.21	0.67
50:BU:76:LEU:HD23	50:BU:76:LEU:C	2.19	0.67
55:CA:27:GLN:H	55:CA:29:SER:N	1.92	0.67
55:CA:213:ASP:OD2	55:CA:221:ILE:HD13	1.95	0.67
55:CA:237:VAL:O	55:CA:291:THR:HG22	1.94	0.67
55:CA:401:GLU:OE1	55:CA:401:GLU:HA	1.94	0.67
1:AA:5:A:O2'	11:AK:134:ARG:NH1	2.26	0.67
1:AA:270(X):G:H2'	1:AA:270(Y):G:C5'	2.17	0.67
1:AA:638:G:H2'	1:AA:639:U:C5'	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:667:U:H2'	1:AA:668:G:O4'	1.93	0.67
1:AA:814:C:OP1	19:AS:85:LYS:HB2	1.94	0.67
1:AA:864:G:H2'	1:AA:865:C:O4'	1.94	0.67
1:AA:919:G:C4	1:AA:920:G:C8	2.82	0.67
1:AA:1131:G:C1'	11:AK:82:LEU:HD11	2.24	0.67
1:AA:1283:G:N2	1:AA:1286:A:O4'	2.26	0.67
1:AA:1314:C:C2'	1:AA:1315:C:H5'	2.23	0.67
1:AA:1321:A:N3	1:AA:1321:A:H2'	2.08	0.67
1:AA:1418:G:H1'	1:AA:1581:G:N2	2.08	0.67
1:AA:1665:A:H4'	12:AL:66:LYS:HB2	1.76	0.67
1:AA:1708:C:H2'	1:AA:1709:U:C5'	2.23	0.67
1:AA:2121:G:H1'	3:AC:167:LYS:CE	2.24	0.67
1:AA:2160:G:H2'	1:AA:2161:C:H6	1.60	0.67
1:AA:2282:G:N2	1:AA:2427:C:N3	2.40	0.67
1:AA:2286:A:N6	29:Ac:32:ASN:H	1.88	0.67
1:AA:2419:U:O4	31:Ae:31:HIS:CE1	2.47	0.67
1:AA:2690:C:C6	1:AA:2690:C:C3'	2.78	0.67
1:AA:2731:G:N2	1:AA:2732:G:C2	2.62	0.67
2:AB:78:A:O2'	2:AB:79:C:H5'	1.94	0.67
4:AD:50:THR:C	4:AD:51:VAL:HG22	2.19	0.67
4:AD:134:ARG:C	4:AD:136:ILE:H	2.01	0.67
4:AD:246:PRO:HG2	4:AD:250:TRP:CD1	2.29	0.67
5:AE:105:THR:OG1	5:AE:106:GLY:N	2.25	0.67
10:AJ:112:MET:HG3	10:AJ:122:ALA:CB	2.01	0.67
11:AK:55:VAL:HG21	11:AK:127:ASP:HA	1.76	0.67
11:AK:93:THR:C	11:AK:94:HIS:HD2	2.03	0.67
11:AK:104:LYS:HD3	11:AK:117:PHE:CE1	2.29	0.67
12:AL:69:VAL:H	12:AL:104:ARG:NH2	1.90	0.67
12:AL:86:ILE:HG23	12:AL:90:GLN:O	1.95	0.67
13:AM:112:LEU:O	13:AM:128:HIS:CE1	2.46	0.67
16:AP:23:ARG:C	16:AP:24:LEU:HD12	2.20	0.67
17:AQ:30:VAL:HG22	17:AQ:32:TYR:HE2	1.58	0.67
19:AS:4:ILE:HG13	19:AS:13:ARG:HG2	1.76	0.67
19:AS:30:GLY:O	19:AS:31:ALA:O	2.13	0.67
22:AV:29:GLU:OE1	22:AV:34:LYS:HD2	1.94	0.67
22:AV:44:ILE:O	22:AV:44:ILE:HG22	1.93	0.67
25:AY:38:GLN:H	25:AY:41:GLN:CD	2.02	0.67
26:AZ:55:ARG:HA	26:AZ:55:ARG:NH1	2.09	0.67
31:Ae:30:ARG:NH2	31:Ae:41:ILE:O	2.27	0.67
34:BA:59:A:H4'	34:BA:388:G:C5'	2.24	0.67
34:BA:197:A:H62	34:BA:221:C:H5'	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:529:G:N1	45:BP:49:ASN:HB3	2.10	0.67
34:BA:563:A:H3'	45:BP:15:ARG:NH1	2.09	0.67
34:BA:572:A:O2'	34:BA:916:G:O2'	2.11	0.67
34:BA:821:G:H2'	34:BA:822:C:H6	1.58	0.67
34:BA:894:G:C5	34:BA:895:G:N7	2.63	0.67
34:BA:900:A:C8	34:BA:901:A:N7	2.62	0.67
34:BA:1077:G:N2	34:BA:1080:A:OP2	2.27	0.67
34:BA:1152:A:O2'	34:BA:1153:C:H5'	1.93	0.67
34:BA:1181:G:H2'	34:BA:1182:G:O4'	1.94	0.67
34:BA:1305:G:N2	34:BA:1331:G:H2'	2.09	0.67
34:BA:1407:C:H2'	34:BA:1408:A:C5'	2.24	0.67
34:BA:1470:G:O2'	34:BA:1471:G:H5'	1.95	0.67
36:BG:24:ALA:HB1	36:BG:28:GLN:CD	2.19	0.67
36:BG:66:VAL:C	36:BG:102:ASN:HD22	2.02	0.67
37:BH:61:LYS:CG	37:BH:207:TYR:HE1	2.06	0.67
40:BK:42:ILE:HG22	40:BK:120:ILE:CD1	2.25	0.67
41:BL:77:GLU:OE2	41:BL:78:GLN:N	2.28	0.67
41:BL:88:LYS:NZ	41:BL:88:LYS:N	2.42	0.67
43:BN:90:LEU:H	43:BN:91:PRO:HD2	1.58	0.67
44:BO:42:TRP:CE3	44:BO:43:SER:HA	2.28	0.67
44:BO:63:LEU:HA	44:BO:66:LEU:HG	1.77	0.67
45:BP:53:ARG:HB3	45:BP:69:TYR:HE1	1.58	0.67
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:HD22	2.28	0.67
47:BR:12:ARG:O	47:BR:14:PRO:N	2.27	0.67
47:BR:13:THR:O	47:BR:14:PRO:C	2.37	0.67
47:BR:35:ARG:O	47:BR:37:PHE:N	2.28	0.67
48:BS:42:HIS:ND1	48:BS:42:HIS:C	2.52	0.67
50:BU:51:TYR:H	50:BU:51:TYR:HD1	1.41	0.67
51:BV:74:ARG:HA	51:BV:79:LEU:HD13	1.76	0.67
53:BX:55:ILE:O	53:BX:56:MET:C	2.37	0.67
55:CA:6:ARG:C	55:CA:72:ILE:HD11	2.17	0.67
55:CA:231:VAL:CG1	55:CA:251:VAL:HG11	2.22	0.67
1:AA:126:A:C5'	30:Ad:47:ARG:HH22	2.07	0.67
1:AA:230:U:H2'	1:AA:231:C:H6	1.59	0.67
1:AA:464:U:H1'	1:AA:788:A:N6	2.10	0.67
1:AA:675:A:C4'	6:AF:67:GLN:HE22	1.98	0.67
1:AA:692:C:O2'	1:AA:693:C:H5'	1.94	0.67
1:AA:1288:U:C5'	1:AA:1289:C:OP2	2.40	0.67
1:AA:1567:A:O2'	1:AA:1568:G:C6	2.45	0.67
1:AA:1608:A:O2'	1:AA:1609:A:H5'	1.95	0.67
1:AA:1608:A:H4'	1:AA:1609:A:OP1	1.93	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1759:A:C5'	1:AA:2715:C:O4'	2.41	0.67
1:AA:1935:G:H2'	1:AA:1962:C:C4	2.28	0.67
1:AA:2114:A:H8	1:AA:2114:A:O5'	1.78	0.67
1:AA:2256:G:N2	1:AA:2275:C:H41	1.92	0.67
1:AA:2271:G:OP1	24:AX:19:LYS:O	2.12	0.67
1:AA:2320:A:H8	1:AA:2320:A:OP2	1.77	0.67
1:AA:2482:G:C2'	1:AA:2483:C:H5'	2.24	0.67
1:AA:2597:G:H5'	4:AD:242:ARG:HE	1.59	0.67
1:AA:2653:U:O4	1:AA:2668:G:N2	2.20	0.67
1:AA:2787:C:H5'	5:AE:64:LYS:HB2	1.75	0.67
2:AB:32:C:H5''	2:AB:33:G:OP2	1.95	0.67
2:AB:78:A:H2'	2:AB:79:C:H5'	1.76	0.67
3:AC:103:ILE:CB	3:AC:127:LEU:HD21	2.23	0.67
3:AC:213:TYR:N	3:AC:213:TYR:CD1	2.63	0.67
4:AD:23:GLU:HB3	4:AD:204:ILE:HG13	1.76	0.67
4:AD:132:PRO:HD3	4:AD:190:TYR:OH	1.93	0.67
4:AD:159:ALA:C	4:AD:196:VAL:HG11	2.20	0.67
4:AD:261:LYS:C	4:AD:263:ARG:N	2.46	0.67
5:AE:58:ARG:HH21	5:AE:75:VAL:CG1	2.07	0.67
5:AE:198:VAL:CG1	5:AE:200:GLU:OE2	2.42	0.67
6:AF:57:VAL:O	6:AF:58:ALA:O	2.13	0.67
8:AH:7:LEU:N	8:AH:69:ARG:HE	1.91	0.67
8:AH:29:PRO:CD	8:AH:79:VAL:O	2.43	0.67
10:AJ:17:ALA:CB	10:AJ:42:ASN:CG	2.68	0.67
11:AK:23:LEU:HD21	11:AK:61:ARG:O	1.95	0.67
11:AK:85:ILE:HB	11:AK:90:MET:SD	2.34	0.67
12:AL:24:VAL:HG21	12:AL:26:LYS:HG2	1.75	0.67
12:AL:31:LYS:O	12:AL:32:TYR:CD1	2.47	0.67
12:AL:39:ILE:C	12:AL:59:LYS:HZ3	2.00	0.67
12:AL:64:ARG:HH21	12:AL:67:LYS:H	0.77	0.67
12:AL:103:ALA:HB1	12:AL:107:ARG:CZ	2.24	0.67
13:AM:19:VAL:O	13:AM:19:VAL:HG23	1.94	0.67
13:AM:107:LYS:HZ3	13:AM:110:TYR:HB3	1.59	0.67
15:AO:52:ILE:HD12	15:AO:94:TYR:CD2	2.28	0.67
19:AS:34:GLU:O	19:AS:35:LEU:HD12	1.94	0.67
19:AS:60:GLU:HG3	19:AS:100:ARG:O	1.95	0.67
20:AT:63:ASP:O	20:AT:64:MET:O	2.13	0.67
21:AU:49:VAL:HG12	21:AU:88:LYS:CB	2.24	0.67
22:AV:35:TYR:CE1	22:AV:65:ALA:O	2.47	0.67
22:AV:50:ARG:HB2	22:AV:54:LYS:HD3	1.75	0.67
22:AV:99:CYS:O	22:AV:101:LYS:HD2	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:54:ARG:HG2	25:AY:54:ARG:HH11	1.57	0.67
27:Aa:32:TYR:O	27:Aa:33:VAL:HG23	1.93	0.67
27:Aa:68:ARG:N	27:Aa:68:ARG:CD	2.55	0.67
28:Ab:58:LEU:HD13	28:Ab:59:GLU:HB2	1.76	0.67
29:Ac:51:GLU:OE2	29:Ac:52:VAL:HA	1.95	0.67
29:Ac:52:VAL:HG12	29:Ac:53:LYS:H	1.57	0.67
34:BA:47:C:O2'	34:BA:48:C:P	2.52	0.67
34:BA:97:U:O2'	34:BA:99:C:H5'	1.94	0.67
34:BA:359:U:OP1	55:CA:216:SER:HA	1.94	0.67
34:BA:425:G:N2	34:BA:426:G:H1'	2.08	0.67
34:BA:1028:C:H2'	34:BA:1028(A):C:H6	1.58	0.67
34:BA:1115:C:O2	34:BA:1186:G:C2	2.46	0.67
34:BA:1129:C:N4	34:BA:1139:G:C5	2.62	0.67
34:BA:1226:C:N4	46:BQ:104:ARG:HE	1.91	0.67
34:BA:1233:G:O2'	34:BA:1365:G:OP1	2.12	0.67
36:BG:22:TRP:HB3	36:BG:59:ARG:HB3	1.74	0.67
36:BG:52:LEU:O	36:BG:53:ALA:HB2	1.93	0.67
36:BG:151:VAL:HG12	36:BG:152:ILE:N	2.09	0.67
37:BH:61:LYS:CB	37:BH:203:VAL:HG13	2.24	0.67
37:BH:147:ALA:CB	37:BH:181:MET:O	2.42	0.67
39:BJ:16:GLN:HG3	39:BJ:17:SER:N	2.09	0.67
41:BL:36:LEU:O	41:BL:39:LEU:CB	2.42	0.67
41:BL:109:ILE:CD1	41:BL:137:VAL:HB	2.23	0.67
42:BM:62:TYR:C	42:BM:63:ILE:HD12	2.18	0.67
44:BO:45:GLY:HA3	44:BO:55:LYS:HB3	1.76	0.67
44:BO:110:ASP:HB2	51:BV:88:LYS:HD2	1.75	0.67
50:BU:59:ILE:HD11	50:BU:72:ARG:N	2.09	0.67
52:BW:9:VAL:HG13	52:BW:41:VAL:CB	2.23	0.67
52:BW:36:ARG:HA	52:BW:71:LEU:CD1	2.23	0.67
1:AA:10:G:H2'	1:AA:11:G:C8	2.29	0.67
1:AA:61:G:H5'	25:AY:45:ILE:CD1	2.24	0.67
1:AA:72:U:C2'	1:AA:73:A:OP1	2.42	0.67
1:AA:128:C:C2	1:AA:129:C:C5	2.82	0.67
1:AA:310:A:H2'	1:AA:312:G:C8	2.29	0.67
1:AA:476:G:N2	1:AA:478:A:H3'	2.10	0.67
1:AA:551:G:O5'	1:AA:1220:A:H2	1.77	0.67
1:AA:624:C:N4	13:AM:104:GLY:HA2	2.05	0.67
1:AA:665:C:C2	1:AA:666:G:N7	2.62	0.67
1:AA:728:G:H1'	1:AA:729:G:C8	2.29	0.67
1:AA:777:A:O2'	1:AA:778:G:H5'	1.95	0.67
1:AA:779:U:H2'	1:AA:780:G:O4'	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:811:U:OP2	13:AM:28:GLY:HA3	1.95	0.67
1:AA:1188:U:C2'	1:AA:1189:A:H5'	2.24	0.67
1:AA:1341:U:O2'	21:AU:56:THR:N	2.28	0.67
1:AA:1357:U:H2'	1:AA:1358:G:O4'	1.95	0.67
1:AA:1568:G:O2'	1:AA:1569:A:OP2	2.11	0.67
1:AA:1591:G:C6	1:AA:1592:C:N4	2.62	0.67
1:AA:1905:C:O2'	1:AA:1929:G:C2'	2.43	0.67
1:AA:2195:C:C2	1:AA:2196:C:C6	2.82	0.67
1:AA:2218:G:H4'	4:AD:186:HIS:NE2	2.09	0.67
1:AA:2516:G:H2'	1:AA:2517:C:C6	2.29	0.67
1:AA:2777:G:H3'	1:AA:2777:G:H8	1.59	0.67
1:AA:2809:A:O4'	1:AA:2811:G:N7	2.28	0.67
4:AD:174:ILE:HD12	4:AD:174:ILE:N	2.09	0.67
4:AD:251:GLY:CA	4:AD:255:LYS:HZ2	2.07	0.67
5:AE:38:THR:HB	5:AE:39:PRO:HD3	1.75	0.67
5:AE:137:HIS:CB	5:AE:138:PRO:HD2	2.23	0.67
6:AF:51:THR:O	6:AF:52:LYS:HG3	1.94	0.67
6:AF:64:ILE:CG2	6:AF:78:ILE:HB	2.24	0.67
6:AF:188:ARG:HG2	6:AF:188:ARG:NH1	2.08	0.67
8:AH:126:PRO:HG3	8:AH:132:ARG:HH22	1.58	0.67
9:AI:53:VAL:CA	9:AI:86:PRO:N	2.57	0.67
10:AJ:53:VAL:CB	10:AJ:71:THR:O	2.41	0.67
11:AK:87:LEU:HD23	11:AK:88:GLU:H	1.59	0.67
12:AL:105:GLU:C	12:AL:111:PHE:CZ	2.71	0.67
13:AM:97:PRO:N	13:AM:102:ARG:CZ	2.57	0.67
13:AM:113:LYS:CB	13:AM:129:ALA:HB1	2.25	0.67
13:AM:121:LYS:H	13:AM:122:PRO:HD3	1.56	0.67
15:AO:47:PHE:C	15:AO:49:ASP:N	2.43	0.67
16:AP:49:VAL:CB	16:AP:80:LEU:HG	2.25	0.67
16:AP:73:LEU:HA	16:AP:76:LYS:HD2	1.75	0.67
17:AQ:32:TYR:HB3	17:AQ:87:ASP:O	1.95	0.67
17:AQ:70:VAL:HB	17:AQ:74:ARG:HD3	1.77	0.67
17:AQ:113:LYS:O	17:AQ:116:ALA:HB3	1.95	0.67
18:AR:19:LYS:O	18:AR:20:LEU:C	2.38	0.67
18:AR:94:ASN:HA	18:AR:97:ASP:CG	2.17	0.67
19:AS:61:VAL:O	19:AS:62:LEU:HD23	1.94	0.67
19:AS:69:LYS:CG	19:AS:70:ILE:H	2.07	0.67
20:AT:5:ALA:HB2	20:AT:54:ALA:CB	2.22	0.67
20:AT:33:ARG:NH2	20:AT:36:LEU:HB3	2.10	0.67
20:AT:42:ARG:HG3	20:AT:43:GLY:N	2.09	0.67
21:AU:30:VAL:O	21:AU:77:LYS:HB3	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:39:VAL:O	22:AV:40:GLU:CB	2.42	0.67
23:AW:27:VAL:CG2	23:AW:85:HIS:HE1	1.99	0.67
23:AW:177:PRO:CG	23:AW:178:GLU:H	2.07	0.67
24:AX:13:GLY:C	24:AX:14:ARG:HD3	2.20	0.67
24:AX:31:VAL:HG11	24:AX:67:VAL:HG22	1.76	0.67
25:AY:58:VAL:O	25:AY:59:LEU:C	2.36	0.67
27:Aa:31:ILE:O	27:Aa:32:TYR:HB3	1.93	0.67
34:BA:346:G:O2'	34:BA:347:G:H5'	1.93	0.67
34:BA:405:U:H3'	34:BA:406:G:H5'	1.77	0.67
34:BA:516:U:C4	34:BA:517:G:N1	2.62	0.67
34:BA:1271:G:OP1	34:BA:1314:C:O5'	2.06	0.67
34:BA:1360:A:N7	47:BR:17:LYS:HD3	2.09	0.67
34:BA:1396:A:O4'	34:BA:1398:A:H1'	1.95	0.67
34:BA:1476:G:H2'	34:BA:1477:C:C6	2.29	0.67
37:BH:47:ARG:HB2	37:BH:47:ARG:HH11	1.60	0.67
37:BH:58:LEU:CD1	37:BH:59:ARG:HH11	2.07	0.67
37:BH:112:VAL:HG23	37:BH:161:ASN:HD21	1.60	0.67
39:BJ:76:ALA:O	39:BJ:79:LEU:HG	1.95	0.67
40:BK:38:LEU:HA	40:BK:41:ARG:HG3	1.76	0.67
41:BL:89:PRO:HB3	41:BL:92:ARG:NH2	2.09	0.67
41:BL:109:ILE:HG13	41:BL:111:ILE:HD11	1.77	0.67
42:BM:37:PHE:N	42:BM:37:PHE:CD2	2.62	0.67
43:BN:15:THR:HG23	43:BN:16:LEU:CD2	2.21	0.67
44:BO:19:ALA:CB	44:BO:80:VAL:HG21	2.24	0.67
46:BQ:19:LEU:O	46:BQ:25:ILE:HD12	1.93	0.67
52:BW:11:VAL:HG12	52:BW:15:LEU:CG	2.24	0.67
53:BX:43:LEU:CD1	53:BX:55:ILE:HD11	2.19	0.67
55:CA:13:HIS:HB2	55:CA:108:GLN:C	2.19	0.67
55:CA:39:GLN:HA	55:CA:40:GLU:HG3	1.75	0.67
55:CA:101:ALA:O	55:CA:135:ALA:CB	2.42	0.67
55:CA:248:ASN:OD1	55:CA:274:VAL:O	2.13	0.67
1:AA:417:C:H2'	1:AA:418:G:O4'	1.95	0.67
1:AA:740:U:H1'	1:AA:1784:A:C8	2.29	0.67
1:AA:904:C:C2'	1:AA:905:U:H5'	2.24	0.67
1:AA:1421:G:C2	1:AA:1422:G:N7	2.63	0.67
1:AA:1500:G:H2'	1:AA:1501:C:H6	1.60	0.67
1:AA:1800:C:O2'	1:AA:1802:A:O4'	2.12	0.67
1:AA:1889:A:O4'	1:AA:2087:G:O4'	2.13	0.67
1:AA:2320:A:OP1	1:AA:2320:A:C8	2.47	0.67
1:AA:2394:C:N4	1:AA:2422:A:N6	2.43	0.67
1:AA:2746:U:C5'	8:AH:139:GLN:HA	2.25	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:132:PRO:HB3	4:AD:190:TYR:CE1	2.29	0.67
5:AE:12:THR:HA	5:AE:22:PRO:HD2	1.76	0.67
6:AF:30:PRO:O	6:AF:33:LEU:CG	2.35	0.67
6:AF:103:LYS:O	6:AF:106:ARG:HG2	1.94	0.67
7:AG:153:ARG:HD2	7:AG:154:GLY:N	2.09	0.67
10:AJ:104:VAL:CG1	10:AJ:127:ILE:HG21	2.09	0.67
12:AL:10:VAL:HG12	12:AL:17:ARG:C	2.20	0.67
13:AM:28:GLY:C	13:AM:29:LYS:HG3	2.19	0.67
14:AN:87:LYS:HG2	14:AN:87:LYS:O	1.95	0.67
16:AP:67:ARG:HG2	16:AP:67:ARG:NH1	2.09	0.67
17:AQ:70:VAL:CB	17:AQ:74:ARG:HD3	2.25	0.67
19:AS:31:ALA:O	19:AS:33:VAL:N	2.28	0.67
19:AS:62:LEU:CD2	19:AS:99:ILE:H	2.04	0.67
20:AT:36:LEU:HD11	20:AT:47:VAL:CB	2.25	0.67
22:AV:14:LEU:O	22:AV:20:TYR:HA	1.95	0.67
23:AW:49:ARG:C	23:AW:51:ALA:N	2.52	0.67
25:AY:7:GLU:CA	25:AY:10:LYS:HG2	2.25	0.67
25:AY:7:GLU:HA	25:AY:10:LYS:HG2	1.77	0.67
25:AY:36:ILE:HG12	25:AY:37:GLY:H	1.59	0.67
29:Ac:19:ARG:HG2	29:Ac:43:CYS:SG	2.34	0.67
30:Ad:26:GLY:O	30:Ad:30:VAL:HG23	1.95	0.67
33:Ag:289:UNK:O	33:Ag:344:UNK:N	2.26	0.67
34:BA:20:U:O2'	34:BA:21:G:H5'	1.93	0.67
34:BA:191(C):G:H2'	34:BA:191(D):U:O4'	1.93	0.67
34:BA:609:A:C4	34:BA:610:G:C8	2.82	0.67
34:BA:627:G:O2'	34:BA:628:G:H5'	1.93	0.67
34:BA:735:C:O2'	51:BV:75:ILE:HD13	1.94	0.67
34:BA:775:G:C2	34:BA:776:G:N7	2.62	0.67
34:BA:829:G:O2'	35:BF:26:PRO:HG2	1.95	0.67
34:BA:1152:A:C2'	34:BA:1153:C:H5'	2.24	0.67
34:BA:1234:C:C5'	34:BA:1364:U:O2'	2.41	0.67
34:BA:1333:A:H2'	34:BA:1334:G:O4'	1.94	0.67
34:BA:1412:C:C2	34:BA:1489:G:C2	2.81	0.67
34:BA:1454:G:P	53:BX:39:LYS:HD2	2.33	0.67
34:BA:1454:G:H5''	53:BX:36:LEU:CA	1.93	0.67
35:BF:61:LEU:HA	35:BF:64:ARG:CD	2.25	0.67
35:BF:96:ARG:O	35:BF:98:LEU:HD22	1.94	0.67
36:BG:38:ARG:HB2	36:BG:94:LEU:CD2	2.24	0.67
37:BH:190:ASP:O	37:BH:193:ASP:OD1	2.12	0.67
38:BI:152:ARG:HH21	41:BL:44:PHE:H	1.41	0.67
39:BJ:60:PHE:CE2	51:BV:78:LEU:HD21	2.29	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:69:VAL:CB	40:BK:104:LEU:HD11	2.25	0.67
40:BK:79:ARG:CD	40:BK:84:ASN:HB3	2.25	0.67
41:BL:40:ALA:HB2	41:BL:45:ILE:CG1	2.24	0.67
41:BL:48:TYR:CD1	41:BL:48:TYR:C	2.73	0.67
41:BL:115:SER:O	41:BL:116:LYS:HD2	1.94	0.67
42:BM:77:ILE:O	42:BM:81:ILE:HG13	1.95	0.67
42:BM:83:ARG:O	42:BM:86:VAL:HB	1.94	0.67
44:BO:126:ARG:C	44:BO:128:ALA:H	2.02	0.67
45:BP:50:SER:O	45:BP:51:ALA:HB2	1.95	0.67
45:BP:84:LEU:N	45:BP:104:VAL:HG11	2.10	0.67
46:BQ:13:LYS:N	46:BQ:44:ARG:C	2.48	0.67
48:BS:81:LEU:HD23	48:BS:85:LEU:HD13	1.75	0.67
52:BW:3:ARG:NH2	52:BW:45:VAL:HG22	1.90	0.67
55:CA:25:LEU:O	55:CA:28:GLN:NE2	2.26	0.67
55:CA:85:VAL:CG1	55:CA:88:VAL:CG2	2.70	0.67
55:CA:407:VAL:HA	55:CA:408:GLU:CB	2.21	0.67
1:AA:275:G:O5'	1:AA:275:G:H8	1.77	0.67
1:AA:404:C:H4'	1:AA:406:G:C8	2.29	0.67
1:AA:534:U:O2'	18:AR:49:HIS:CD2	2.46	0.67
1:AA:830:G:O2'	1:AA:831:G:OP1	2.11	0.67
1:AA:895:U:O3'	1:AA:897:C:OP2	2.13	0.67
1:AA:917:A:C8	1:AA:918:A:C5'	2.78	0.67
1:AA:972:G:OP1	1:AA:974(A):C:H3'	1.94	0.67
1:AA:988:A:C4'	1:AA:1155:A:H2	2.07	0.67
1:AA:1048:A:N1	1:AA:1113:U:C5'	2.57	0.67
1:AA:1205:U:H2'	1:AA:1206:G:N7	2.09	0.67
1:AA:1538:G:H1	1:AA:1539:G:N2	1.92	0.67
1:AA:1668:A:N7	1:AA:1674:G:C4	2.63	0.67
1:AA:1687:G:N1	1:AA:1688:U:C5	2.62	0.67
1:AA:1702:G:C2'	1:AA:1703:G:H5''	2.01	0.67
1:AA:1710:C:H1'	1:AA:2858:C:H42	1.60	0.67
1:AA:1901:A:O2'	4:AD:244:ARG:NH1	2.27	0.67
1:AA:1906:G:C2	1:AA:1907:G:C5	2.83	0.67
1:AA:1910:G:C2	1:AA:1921:G:N9	2.38	0.67
1:AA:1910:G:C4	1:AA:1921:G:N3	2.43	0.67
1:AA:2018:G:H2'	1:AA:2019:A:C8	2.30	0.67
1:AA:2022:U:H2'	1:AA:2022:U:O2	1.92	0.67
1:AA:2433:A:N6	27:Aa:32:TYR:CE2	2.55	0.67
1:AA:2453:A:O2'	1:AA:2454:G:C5'	2.42	0.67
1:AA:2619:C:H2'	1:AA:2620:C:O5'	1.95	0.67
1:AA:2697:G:N2	1:AA:2698:U:H1'	2.08	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2748:A:N7	1:AA:2749:A:N6	2.43	0.67
2:AB:57:A:H8	2:AB:57:A:H3'	1.60	0.67
2:AB:69:G:H5''	2:AB:70:C:OP2	1.95	0.67
2:AB:76:G:H1'	23:AW:75:ASN:HD21	1.59	0.67
3:AC:212:VAL:O	3:AC:223:ARG:HG3	1.93	0.67
5:AE:114:ALA:HB3	5:AE:118:LYS:CB	2.23	0.67
6:AF:18:ARG:HG2	6:AF:18:ARG:NH1	2.08	0.67
7:AG:68:PRO:HG3	7:AG:90:LEU:HD21	1.77	0.67
7:AG:135:LEU:CD1	7:AG:137:GLU:H	2.08	0.67
7:AG:135:LEU:HD21	7:AG:137:GLU:O	1.93	0.67
8:AH:87:LEU:H	8:AH:132:ARG:CB	2.08	0.67
9:AI:97:ALA:CA	9:AI:132:ASP:O	2.41	0.67
10:AJ:21:PRO:HD2	10:AJ:22:PRO:CD	2.23	0.67
10:AJ:103:GLN:HG2	10:AJ:107:ILE:HD11	1.76	0.67
11:AK:18:ALA:HB2	11:AK:54:VAL:HG22	1.75	0.67
11:AK:45:ASN:N	11:AK:45:ASN:OD1	2.26	0.67
11:AK:95:PRO:O	11:AK:98:VAL:HG23	1.94	0.67
12:AL:60:ALA:C	12:AL:83:ALA:HB1	2.20	0.67
14:AN:122:GLY:O	14:AN:123:HIS:C	2.37	0.67
16:AP:92:TYR:OH	16:AP:93:LYS:HD3	1.94	0.67
17:AQ:71:GLY:N	17:AQ:74:ARG:NH1	2.43	0.67
20:AT:25:ARG:CD	20:AT:74:ALA:HB3	2.24	0.67
20:AT:34:ASN:HA	20:AT:37:ARG:NE	2.05	0.67
22:AV:40:GLU:C	22:AV:62:GLU:OE2	2.37	0.67
22:AV:65:ALA:HB3	22:AV:66:PRO:CD	2.25	0.67
26:AZ:29:ARG:HB2	26:AZ:30:ARG:CZ	2.23	0.67
29:Ac:20:ASN:ND2	29:Ac:43:CYS:H	1.91	0.67
34:BA:13:U:H5'	34:BA:14:U:OP2	1.95	0.67
34:BA:198:G:O2'	34:BA:199:G:H5'	1.95	0.67
34:BA:295:C:N4	34:BA:303:A:N1	2.43	0.67
34:BA:515:G:O6	34:BA:533:A:N7	2.27	0.67
34:BA:829:G:O2'	35:BF:26:PRO:CG	2.43	0.67
34:BA:940:C:H2'	34:BA:941:G:H8	1.60	0.67
34:BA:963:G:O2'	34:BA:964:A:H5'	1.94	0.67
34:BA:1185:G:O2'	34:BA:1186:G:H5'	1.95	0.67
34:BA:1305:G:H2'	34:BA:1331:G:H22	1.58	0.67
34:BA:1452:C:O4'	34:BA:1453:G:N2	2.27	0.67
34:BA:1518:A:O5'	34:BA:1518:A:H8	1.78	0.67
35:BF:82:ARG:O	35:BF:86:GLU:HG3	1.93	0.67
35:BF:92:TYR:O	35:BF:152:PHE:HB2	1.94	0.67
35:BF:112:VAL:HG22	35:BF:149:LEU:HD11	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:146:ALA:C	36:BG:147:LYS:HD2	2.19	0.67
38:BI:109:ILE:HG23	38:BI:110:LEU:N	2.10	0.67
38:BI:140:ARG:HB3	38:BI:140:ARG:NH1	2.10	0.67
40:BK:15:ASP:H	40:BK:20:ASP:N	1.92	0.67
40:BK:70:LYS:O	40:BK:138:LYS:HE3	1.95	0.67
40:BK:87:VAL:HG13	40:BK:152:ALA:CA	2.21	0.67
41:BL:101:PRO:O	41:BL:102:ARG:CB	2.43	0.67
46:BQ:15:VAL:CG2	46:BQ:39:ILE:CD1	0.74	0.67
46:BQ:37:THR:HB	46:BQ:56:LEU:HG	0.75	0.67
46:BQ:87:TYR:CZ	52:BW:75:ALA:C	2.73	0.67
50:BU:5:VAL:CG2	50:BU:60:ILE:HA	2.11	0.67
54:BY:6:ARG:HB3	54:BY:15:ARG:NH2	2.09	0.67
55:CA:382:VAL:HG21	55:CA:569:LEU:CD2	2.23	0.67
55:CA:406:ASP:HA	55:CA:407:VAL:HG13	1.74	0.67
1:AA:526:A:H4'	1:AA:527:C:OP1	1.94	0.67
1:AA:543:C:H2'	1:AA:544:C:C5	2.30	0.67
1:AA:574:C:H1'	1:AA:2055:C:H5	1.59	0.67
1:AA:751:A:O4'	20:AT:90:ARG:HD3	1.95	0.67
1:AA:774:A:O2'	1:AA:775:G:H8	1.77	0.67
1:AA:792:G:N7	1:AA:2440:C:H1'	2.09	0.67
1:AA:821:A:C8	1:AA:946:G:C5	2.83	0.67
1:AA:959:A:C6	1:AA:960:A:N6	2.63	0.67
1:AA:1428:C:O2'	1:AA:1429:G:OP1	2.12	0.67
1:AA:1527:G:C8	1:AA:1527:G:C3'	2.77	0.67
1:AA:1559:G:C6	1:AA:1560:G:H4'	2.28	0.67
1:AA:1711:C:H2'	1:AA:1712:C:C6	2.29	0.67
1:AA:1886:C:C2	1:AA:1887:C:C5	2.82	0.67
1:AA:1908:C:H2'	1:AA:1909:C:C5	2.28	0.67
1:AA:1935:G:C2'	1:AA:1962:C:N4	2.57	0.67
1:AA:1937:A:N6	1:AA:1939:U:C4	2.52	0.67
1:AA:2046:G:OP1	28:Ab:18:ALA:C	2.38	0.67
1:AA:2197:U:H2'	1:AA:2224:G:N2	2.08	0.67
1:AA:2209:C:H4'	4:AD:150:LYS:CB	2.24	0.67
1:AA:2360:A:OP2	1:AA:2360:A:C8	2.47	0.67
1:AA:2392:A:H2'	1:AA:2393:A:O5'	1.95	0.67
1:AA:2740:A:N6	1:AA:2764:A:C1'	2.57	0.67
1:AA:2776:A:C2	1:AA:2778:A:H2'	2.29	0.67
1:AA:2797:U:C4'	1:AA:2798:C:H4'	2.25	0.67
1:AA:2811:G:H5''	5:AE:59:VAL:HG13	1.75	0.67
2:AB:3:C:H2'	2:AB:4:C:H6	1.60	0.67
3:AC:11:LEU:O	3:AC:14:VAL:HB	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:22:ILE:CD1	3:AC:226:PRO:HA	2.24	0.67
4:AD:7:LYS:HE2	4:AD:25:THR:CB	2.24	0.67
4:AD:107:ALA:N	4:AD:108:PRO:HD3	2.08	0.67
4:AD:154:LYS:O	4:AD:155:LEU:CB	2.42	0.67
4:AD:181:GLU:HG2	4:AD:268:ARG:NE	2.10	0.67
5:AE:101:ARG:HD2	5:AE:169:ASN:ND2	2.09	0.67
7:AG:55:LYS:HG3	7:AG:148:MET:SD	2.35	0.67
7:AG:131:TYR:HE1	7:AG:133:LEU:O	1.77	0.67
7:AG:181:ARG:H	7:AG:181:ARG:NH1	1.92	0.67
8:AH:25:LYS:HD3	8:AH:27:LYS:HD2	1.77	0.67
11:AK:127:ASP:N	11:AK:129:PRO:HD2	2.09	0.67
12:AL:10:VAL:O	12:AL:11:ALA:CB	2.42	0.67
12:AL:106:LEU:HD22	17:AQ:39:ARG:CZ	2.25	0.67
14:AN:130:LYS:NZ	14:AN:132:VAL:HG13	2.10	0.67
14:AN:137:TYR:CE2	23:AW:124:ILE:HD12	2.30	0.67
15:AO:5:LYS:NZ	15:AO:6:SER:N	2.43	0.67
16:AP:24:LEU:HG	16:AP:40:ILE:O	1.94	0.67
17:AQ:15:VAL:CG1	17:AQ:81:PRO:HB3	2.24	0.67
17:AQ:87:ASP:OD1	17:AQ:89:VAL:HG23	1.94	0.67
17:AQ:93:ARG:HE	17:AQ:93:ARG:N	1.91	0.67
22:AV:37:VAL:HG22	22:AV:39:VAL:CG2	2.25	0.67
24:AX:37:LEU:HD21	24:AX:60:PHE:HA	1.77	0.67
26:AZ:9:VAL:CG2	26:AZ:10:LYS:N	2.57	0.67
30:Ad:31:LEU:O	30:Ad:35:ARG:HG3	1.95	0.67
31:Ae:1:MET:H2	31:Ae:2:PRO:HD2	1.60	0.67
31:Ae:15:LYS:NZ	31:Ae:64:TYR:HB3	2.10	0.67
34:BA:9:G:OP2	38:BI:121:LYS:HA	1.94	0.67
34:BA:286:G:C5	34:BA:287:U:C5	2.83	0.67
34:BA:323:U:H5'	53:BX:23:ARG:HB2	1.76	0.67
34:BA:442:C:H2'	34:BA:442:C:O2	1.93	0.67
34:BA:592:G:C2'	34:BA:593:G:H5'	2.25	0.67
34:BA:645:C:H2'	34:BA:646:U:H6	1.58	0.67
34:BA:781:A:C2'	34:BA:782:A:C5'	2.67	0.67
34:BA:1219:U:O3'	52:BW:34:TRP:CD2	2.38	0.67
34:BA:1240:U:H1'	40:BK:42:ILE:HD11	1.76	0.67
34:BA:1316:G:H5''	47:BR:17:LYS:HZ3	1.59	0.67
34:BA:1339:A:H2'	34:BA:1340:A:C5'	2.22	0.67
34:BA:1367:C:OP1	42:BM:115:GLY:N	2.28	0.67
34:BA:1390:U:H2'	34:BA:1391:U:C5	2.29	0.67
34:BA:1459:C:P	53:BX:31:SER:OG	2.50	0.67
35:BF:118:LEU:CD1	35:BF:142:LEU:HD12	2.25	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:35:GLU:HA	36:BG:38:ARG:HG3	1.76	0.67
37:BH:16:GLY:O	37:BH:18:LYS:N	2.28	0.67
43:BN:42:THR:HG23	43:BN:68:HIS:HA	1.76	0.67
43:BN:52:GLY:H	43:BN:59:SER:HB2	1.59	0.67
52:BW:45:VAL:HG13	52:BW:64:GLU:HA	1.76	0.67
53:BX:43:LEU:HD23	53:BX:46:GLU:OE2	1.94	0.67
53:BX:73:HIS:N	53:BX:76:ALA:HB3	2.09	0.67
55:CA:200:ASP:CB	55:CA:228:ARG:HD3	2.24	0.67
1:AA:38:A:N3	6:AF:48:THR:HG21	2.10	0.67
1:AA:115:C:O2'	1:AA:116:C:H5'	1.95	0.67
1:AA:139:G:H2'	1:AA:140:A:O5'	1.94	0.67
1:AA:150:C:O2'	1:AA:151:C:H5'	1.95	0.67
1:AA:195:A:N6	1:AA:198:C:OP2	2.28	0.67
1:AA:241:A:O2'	1:AA:242:G:H4'	1.95	0.67
1:AA:330:A:C2	1:AA:1210:A:H2'	2.30	0.67
1:AA:392:C:H5''	1:AA:409:C:H5''	1.75	0.67
1:AA:491:G:C2	1:AA:492:A:C4	2.83	0.67
1:AA:515:A:O5'	1:AA:515:A:H8	1.78	0.67
1:AA:523:C:O2'	1:AA:524:U:H5'	1.95	0.67
1:AA:559:G:H2'	1:AA:560:C:O4'	1.95	0.67
1:AA:662:G:C4'	13:AM:18:ARG:H	1.99	0.67
1:AA:801:G:O2'	1:AA:802:A:OP1	2.13	0.67
1:AA:824:A:H3'	1:AA:825:C:H5	1.59	0.67
1:AA:1069:A:H4'	1:AA:1070:A:O5'	1.95	0.67
1:AA:1102:C:H2'	1:AA:1102:C:O2	1.93	0.67
1:AA:1137:G:H4'	11:AK:105:GLY:HA2	1.75	0.67
1:AA:1174:A:C2'	1:AA:1175:U:H5''	2.17	0.67
1:AA:1241:A:H5''	1:AA:1241:A:C4	2.28	0.67
1:AA:1257:C:O2'	6:AF:83:PHE:HB2	1.95	0.67
1:AA:1675:C:H5	5:AE:129:HIS:CD2	2.13	0.67
1:AA:1742:C:C4	1:AA:1743:G:H8	2.11	0.67
1:AA:1996:C:O2	1:AA:1997:G:H4'	1.94	0.67
1:AA:2081:C:O2'	1:AA:2082:A:H5'	1.94	0.67
1:AA:2369:A:H61	1:AA:2382:G:N2	1.93	0.67
1:AA:2440:C:C5'	1:AA:2587:A:H4'	2.23	0.67
1:AA:2533:A:H2'	1:AA:2534:A:H8	1.59	0.67
1:AA:2689:U:O2	1:AA:2713:A:OP2	2.12	0.67
1:AA:2747:G:N2	1:AA:2754:U:N3	2.43	0.67
3:AC:68:LEU:HB3	3:AC:157:LYS:O	1.94	0.67
4:AD:39:LYS:HA	4:AD:62:TYR:CB	2.20	0.67
4:AD:61:LEU:HD22	4:AD:63:ARG:HH21	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:9:ARG:HG2	7:AG:13:GLU:CD	2.19	0.67
7:AG:40:ASN:ND2	7:AG:41:GLN:N	2.42	0.67
7:AG:120:LEU:HA	7:AG:181:ARG:HB2	1.74	0.67
8:AH:11:VAL:HB	8:AH:50:VAL:HG21	1.75	0.67
8:AH:65:HIS:O	8:AH:69:ARG:HG2	1.95	0.67
10:AJ:53:VAL:HG13	10:AJ:71:THR:N	2.09	0.67
10:AJ:104:VAL:HG13	10:AJ:127:ILE:HD13	0.68	0.67
11:AK:55:VAL:HG22	11:AK:56:ASN:H	1.59	0.67
11:AK:103:VAL:CG2	11:AK:104:LYS:HD3	2.24	0.67
13:AM:72:PRO:O	13:AM:111:ARG:NE	2.27	0.67
15:AO:93:GLY:C	15:AO:95:THR:H	2.03	0.67
20:AT:8:ARG:CZ	20:AT:102:HIS:CE1	2.78	0.67
23:AW:4:ARG:NH2	23:AW:88:PHE:HE1	1.93	0.67
27:Aa:14:ILE:HG22	27:Aa:14:ILE:O	1.93	0.67
30:Ad:2:LYS:O	30:Ad:4:THR:N	2.27	0.67
30:Ad:33:ARG:O	30:Ad:37:LYS:CB	2.43	0.67
34:BA:185:A:H2'	34:BA:186:C:C6	2.30	0.67
34:BA:194:C:H5''	53:BX:65:LYS:NZ	2.09	0.67
34:BA:483:C:OP2	34:BA:484:G:H3'	1.95	0.67
34:BA:671:G:H2'	34:BA:672:U:C1'	2.25	0.67
34:BA:832:C:H2'	34:BA:833:U:C6	2.30	0.67
34:BA:1225:A:H5'	52:BW:78:ARG:HD2	0.67	0.67
34:BA:1242:C:HO2'	34:BA:1303:C:H5''	1.58	0.67
34:BA:1319:A:OP2	52:BW:12:ASP:OD1	2.12	0.67
35:BF:47:THR:HG23	35:BF:51:LEU:HD21	1.76	0.67
35:BF:49:GLU:OE2	35:BF:49:GLU:N	2.28	0.67
37:BH:113:SER:HB3	37:BH:116:GLN:HG3	1.75	0.67
37:BH:129:ASN:ND2	37:BH:144:ASP:CG	2.53	0.67
37:BH:149:ALA:O	37:BH:152:SER:HB3	1.95	0.67
37:BH:195:ALA:O	37:BH:196:LEU:HD12	1.95	0.67
40:BK:94:ARG:HG3	40:BK:94:ARG:HH11	1.58	0.67
41:BL:87:SER:CB	41:BL:93:VAL:H	2.08	0.67
41:BL:103:VAL:CB	41:BL:108:GLY:HA3	2.24	0.67
44:BO:102:GLY:HA2	44:BO:105:VAL:CG2	2.24	0.67
45:BP:85:ILE:HD11	45:BP:98:TYR:C	2.19	0.67
50:BU:75:ARG:NH1	50:BU:77:VAL:HG22	2.09	0.67
51:BV:61:LYS:HD2	51:BV:64:ARG:NH2	2.06	0.67
51:BV:66:LEU:HD12	51:BV:67:ALA:CA	2.25	0.67
52:BW:10:PHE:O	52:BW:41:VAL:HG22	1.95	0.67
55:CA:231:VAL:HG11	55:CA:251:VAL:CG1	2.22	0.67
55:CA:267:LEU:CG	55:CA:268:ALA:H	2.08	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2:G:C2	1:AA:2902:C:C6	2.83	0.67
1:AA:374:A:C3'	1:AA:375:C:H6	2.07	0.67
1:AA:586:A:N1	1:AA:810:U:H5'	2.10	0.67
1:AA:721:C:C2	1:AA:722:A:C8	2.82	0.67
1:AA:883:G:C4	1:AA:884:C:H5	2.12	0.67
1:AA:988:A:H3'	26:AZ:10:LYS:NZ	2.06	0.67
1:AA:1224:G:H2'	19:AS:87:HIS:CD2	2.29	0.67
1:AA:1347:G:O2'	1:AA:1348:G:H5'	1.95	0.67
1:AA:1386:C:H2'	1:AA:1387:C:C6	2.30	0.67
1:AA:1431:U:O2'	1:AA:1432:C:H5'	1.94	0.67
1:AA:1531:C:O2	1:AA:1532:C:H5	1.76	0.67
1:AA:1604:C:O2'	1:AA:1605:C:H5'	1.95	0.67
1:AA:1669:A:C2	1:AA:1994:C:H1'	2.29	0.67
1:AA:1700:A:H8	1:AA:1701:A:C8	2.12	0.67
1:AA:2089:U:H2'	1:AA:2090:G:C8	2.26	0.67
1:AA:2227:A:O4'	4:AD:262:ARG:HD2	1.95	0.67
1:AA:2542:A:C4'	1:AA:2543:G:OP1	2.41	0.67
1:AA:2578:G:N2	1:AA:2579:C:C2	2.62	0.67
1:AA:2593:U:OP2	1:AA:2593:U:H6	1.77	0.67
1:AA:2619:C:H4'	5:AE:152:LYS:CA	2.06	0.67
1:AA:2660:A:N7	1:AA:2661:G:C6	2.63	0.67
1:AA:2660:A:C8	1:AA:2661:G:N7	2.62	0.67
1:AA:2692:C:C2'	1:AA:2847:U:HO2'	2.08	0.67
2:AB:110:G:H2'	2:AB:111:U:O4'	1.95	0.67
2:AB:117:G:N2	2:AB:118:G:C8	2.62	0.67
4:AD:133:LEU:O	4:AD:136:ILE:N	2.28	0.67
4:AD:242:ARG:O	4:AD:243:GLY:C	2.38	0.67
5:AE:2:LYS:HD3	5:AE:83:ASP:CB	2.24	0.67
5:AE:36:ARG:O	5:AE:44:TYR:CD1	2.48	0.67
5:AE:151:TYR:CZ	5:AE:152:LYS:HG3	2.30	0.67
6:AF:44:ARG:HG3	6:AF:45:ARG:N	2.10	0.67
6:AF:156:LEU:O	6:AF:176:LEU:HB3	1.94	0.67
11:AK:33:LEU:HD11	11:AK:52:VAL:HG21	1.77	0.67
11:AK:89:LYS:O	11:AK:90:MET:C	2.38	0.67
12:AL:98:VAL:O	12:AL:98:VAL:HG23	1.93	0.67
12:AL:121:VAL:C	17:AQ:70:VAL:O	2.36	0.67
15:AO:21:TYR:HB3	15:AO:47:PHE:CD2	2.29	0.67
17:AQ:17:THR:C	17:AQ:19:LEU:H	2.00	0.67
17:AQ:95:ARG:HB3	17:AQ:95:ARG:NH1	2.10	0.67
18:AR:45:TYR:C	18:AR:49:HIS:ND1	2.53	0.67
19:AS:43:GLU:N	19:AS:44:LYS:NZ	2.37	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:20:VAL:HG22	20:AT:24:ILE:CD1	2.21	0.67
22:AV:74:PRO:HB2	22:AV:101:LYS:N	2.10	0.67
23:AW:10:ARG:CD	23:AW:36:LYS:HB2	2.25	0.67
23:AW:116:VAL:CG2	23:AW:145:GLU:HG2	2.25	0.67
24:AX:40:GLN:HB3	24:AX:45:PHE:CD2	2.30	0.67
24:AX:51:VAL:HG11	24:AX:79:VAL:HG21	1.74	0.67
25:AY:33:GLN:N	25:AY:33:GLN:NE2	2.42	0.67
27:Aa:50:VAL:O	27:Aa:51:ASP:CG	2.38	0.67
34:BA:558:G:H2'	34:BA:559:A:C2	2.28	0.67
34:BA:579:G:O2'	34:BA:580:U:H5'	1.95	0.67
34:BA:760:G:H2'	50:BU:103:GLY:O	1.95	0.67
34:BA:769:G:N1	34:BA:811:C:O2	2.23	0.67
34:BA:819:A:N6	34:BA:1529:G:N7	2.42	0.67
34:BA:900:A:H2'	34:BA:901:A:H8	1.59	0.67
34:BA:1231:G:P	42:BM:127:LYS:HE2	2.34	0.67
34:BA:1283:G:C2'	34:BA:1284:C:H5'	2.25	0.67
34:BA:1449:C:H42	34:BA:1454:G:H1	1.40	0.67
34:BA:1465:C:H2'	34:BA:1466:C:C5'	2.22	0.67
35:BF:80:ILE:HD13	35:BF:211:ILE:CG2	2.25	0.67
37:BH:146:ILE:HD12	37:BH:146:ILE:N	2.10	0.67
39:BJ:6:VAL:O	39:BJ:6:VAL:CG1	2.42	0.67
39:BJ:17:SER:O	39:BJ:20:ALA:HB3	1.95	0.67
41:BL:29:SER:C	41:BL:32:LYS:NZ	2.52	0.67
44:BO:54:ARG:HG3	44:BO:54:ARG:NH1	2.09	0.67
48:BS:62:GLN:CA	48:BS:65:ARG:HH22	2.07	0.67
49:BT:73:LEU:HD13	49:BT:73:LEU:O	1.94	0.67
50:BU:91:ARG:O	50:BU:94:ASN:HB2	1.94	0.67
51:BV:38:GLU:O	51:BV:41:LYS:HB2	1.94	0.67
52:BW:6:LYS:HD2	52:BW:7:LYS:H	1.59	0.67
55:CA:427:LYS:HG3	55:CA:442:VAL:CG2	2.23	0.67
1:AA:14:A:N7	1:AA:15:G:C4	2.63	0.67
1:AA:91:A:C2	1:AA:92:G:H5'	2.30	0.67
1:AA:181:A:H5'	1:AA:181:A:C8	2.30	0.67
1:AA:298:G:H1	1:AA:338:G:HO2'	1.41	0.67
1:AA:320:A:H2'	6:AF:136:THR:HG21	1.77	0.67
1:AA:336:C:H2'	1:AA:337:C:C5'	2.25	0.67
1:AA:541:C:H2'	1:AA:542:C:H6	1.57	0.67
1:AA:623:G:C3'	13:AM:105:LEU:HD22	2.23	0.67
1:AA:629:G:H1'	1:AA:639:U:O2'	1.95	0.67
1:AA:716:A:C1'	48:BS:44:LYS:CE	2.72	0.67
1:AA:848:G:H21	1:AA:933:A:C1'	2.07	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:974(A):C:O2	1:AA:1186:G:N1	2.21	0.67
1:AA:997:G:C5'	18:AR:92:ARG:HD2	2.24	0.67
1:AA:1181:C:H2'	1:AA:1182:A:C1'	2.25	0.67
1:AA:1222:C:C2'	1:AA:1223:C:H5'	2.25	0.67
1:AA:1570:A:N6	1:AA:1571:A:N6	2.41	0.67
1:AA:1591:G:C4	1:AA:1592:C:C5	2.83	0.67
1:AA:1598:C:C5'	21:AU:36:LYS:HB3	2.16	0.67
1:AA:1858:G:N7	1:AA:1883:G:N1	2.42	0.67
1:AA:1914:C:C4	1:AA:1915:U:C5	2.83	0.67
1:AA:1996:C:HO2'	5:AE:123:ALA:HB3	1.58	0.67
1:AA:2009:G:O2'	1:AA:2010:G:H5'	1.95	0.67
1:AA:2023:G:O2'	1:AA:2024:G:H5'	1.95	0.67
1:AA:2114:A:N3	1:AA:2167:U:O2'	2.25	0.67
1:AA:2213:U:O2	1:AA:2213:U:C3'	2.43	0.67
1:AA:2661:G:H5'	55:CA:14:VAL:HG21	1.77	0.67
1:AA:2748:A:N7	1:AA:2749:A:C6	2.62	0.67
1:AA:2876:G:H2'	1:AA:2877:G:H8	1.59	0.67
2:AB:75:G:H4'	23:AW:36:LYS:NZ	2.10	0.67
4:AD:29:PRO:HB2	4:AD:82:ILE:O	1.94	0.67
6:AF:7:TYR:H	6:AF:20:LEU:HD22	1.59	0.67
7:AG:96:ARG:HA	7:AG:100:TRP:HZ3	1.59	0.67
7:AG:118:ARG:CG	7:AG:119:GLY:N	2.54	0.67
11:AK:16:ILE:O	11:AK:54:VAL:HG23	1.94	0.67
12:AL:62:VAL:HB	12:AL:82:ASN:O	1.94	0.67
14:AN:6:ARG:HG2	14:AN:70:PRO:CB	2.25	0.67
14:AN:22:LYS:HD2	14:AN:23:GLY:H	1.59	0.67
14:AN:42:ILE:CD1	14:AN:46:GLN:HE21	2.08	0.67
15:AO:26:LYS:HE2	15:AO:70:LEU:HA	1.77	0.67
17:AQ:61:PHE:O	17:AQ:62:THR:HG23	1.95	0.67
17:AQ:70:VAL:HG21	17:AQ:74:ARG:HD3	1.76	0.67
18:AR:88:ILE:H	19:AS:52:VAL:HG22	1.58	0.67
19:AS:62:LEU:CD2	19:AS:98:GLU:HA	2.21	0.67
22:AV:36:ALA:HA	22:AV:64:GLU:HB2	1.77	0.67
22:AV:46:LYS:HG3	22:AV:58:GLY:N	2.10	0.67
22:AV:82:PRO:HD2	22:AV:96:ILE:HA	1.76	0.67
23:AW:95:PRO:HG2	23:AW:131:ARG:H	1.60	0.67
24:AX:27:GLU:HB2	24:AX:69:PHE:CE2	2.29	0.67
24:AX:51:VAL:HG21	24:AX:79:VAL:C	2.20	0.67
31:Ae:26:LYS:NZ	31:Ae:43:GLN:HA	2.10	0.67
34:BA:129(A):G:N2	34:BA:191(A):G:C8	2.63	0.67
34:BA:168:G:C6	34:BA:169:C:N4	2.63	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:192:U:C2	34:BA:193:C:C5	2.83	0.67
34:BA:300:A:H2'	34:BA:301:G:H5'	1.77	0.67
34:BA:454:C:H3'	34:BA:455:C:C5	2.29	0.67
34:BA:647:C:C2	34:BA:648:A:C8	2.83	0.67
34:BA:791:G:H2'	34:BA:792:A:C8	2.29	0.67
34:BA:826:C:H5'	41:BL:12:ARG:HE	1.59	0.67
34:BA:1209:C:O2'	34:BA:1210:C:H5'	1.93	0.67
34:BA:1389:C:O2'	34:BA:1390:U:H5'	1.95	0.67
34:BA:1404:C:HO2'	34:BA:1499:A:H2	0.68	0.67
34:BA:1520:G:H2'	34:BA:1521:G:C8	2.29	0.67
35:BF:60:ASP:O	35:BF:63:MET:HB3	1.93	0.67
36:BG:57:ILE:HG22	36:BG:59:ARG:NH2	2.10	0.67
38:BI:43:LEU:HB3	38:BI:136:MET:HE2	1.75	0.67
38:BI:56:GLN:NE2	38:BI:56:GLN:H	1.92	0.67
38:BI:135:THR:O	38:BI:139:LEU:HD12	1.94	0.67
39:BJ:84:ASN:O	39:BJ:86:ARG:N	2.28	0.67
44:BO:106:LYS:HG2	44:BO:107:SER:H	1.59	0.67
46:BQ:23:TYR:HD2	46:BQ:67:GLU:CA	2.02	0.67
51:BV:55:ARG:HH11	51:BV:55:ARG:CB	2.06	0.67
55:CA:22:VAL:CG1	55:CA:56:ILE:CG1	2.72	0.67
55:CA:238:THR:OG1	55:CA:291:THR:CG2	2.42	0.67
1:AA:126:A:C2'	1:AA:127:A:H5'	2.24	0.66
1:AA:653:A:H3'	1:AA:654:A:O3'	1.95	0.66
1:AA:728:G:C6	1:AA:762:U:H3'	2.30	0.66
1:AA:976:C:O2	1:AA:977:G:C8	2.48	0.66
1:AA:1064:C:C2	1:AA:1065:U:C6	2.83	0.66
1:AA:1110:G:O6	9:AI:60:ARG:CB	2.42	0.66
1:AA:1124:C:H3'	1:AA:1125:G:H8	1.60	0.66
1:AA:1394:U:H4'	1:AA:1603:A:C4'	2.25	0.66
1:AA:1647:G:H3'	1:AA:1647:G:OP2	1.94	0.66
1:AA:1674:G:O2'	1:AA:1676:A:N6	2.28	0.66
1:AA:1675:C:N4	5:AE:128:SER:OG	2.28	0.66
1:AA:1688:U:N3	1:AA:1700:A:H5''	2.10	0.66
1:AA:1794:U:C2	1:AA:1795:C:C5	2.83	0.66
1:AA:1851:U:N3	1:AA:1852:C:N4	2.43	0.66
1:AA:2210:G:N7	4:AD:150:LYS:HA	2.09	0.66
1:AA:2331:G:H2'	1:AA:2332:U:C1'	2.26	0.66
1:AA:2371:G:H4'	29:Ac:46:HIS:CB	2.19	0.66
1:AA:2436:G:C6	1:AA:2437:U:C4	2.82	0.66
1:AA:2550:G:C2	1:AA:2559:C:C2	2.83	0.66
1:AA:2564:A:H5'	1:AA:2649:U:OP1	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2619:C:C2'	1:AA:2620:C:O5'	2.43	0.66
1:AA:2858:C:H5'	1:AA:2859:G:OP2	1.94	0.66
4:AD:7:LYS:HG3	4:AD:27:THR:N	2.11	0.66
4:AD:148:GLU:CB	4:AD:154:LYS:HZ2	2.05	0.66
5:AE:49:LEU:HD22	5:AE:76:ARG:O	1.95	0.66
5:AE:85:ASN:C	5:AE:87:GLU:H	2.03	0.66
5:AE:154:LYS:HZ3	5:AE:156:MET:CE	1.99	0.66
6:AF:38:ARG:NH2	13:AM:10:PRO:CA	2.58	0.66
6:AF:184:TYR:HD1	6:AF:184:TYR:N	1.92	0.66
8:AH:149:ARG:HA	8:AH:162:ILE:HG21	1.77	0.66
10:AJ:64:SER:HB2	10:AJ:65:PHE:CG	2.31	0.66
11:AK:76:SER:C	11:AK:78:TYR:N	2.53	0.66
12:AL:25:LEU:HD22	12:AL:38:VAL:CG2	2.25	0.66
12:AL:97:ARG:NH2	12:AL:98:VAL:N	2.42	0.66
13:AM:7:ARG:HD2	13:AM:7:ARG:N	2.10	0.66
13:AM:56:SER:CB	31:Ae:13:ARG:CZ	2.72	0.66
14:AN:45:GLN:O	14:AN:46:GLN:C	2.38	0.66
14:AN:66:ILE:CG2	14:AN:67:ARG:N	2.40	0.66
14:AN:85:LYS:HD2	14:AN:86:GLY:H	1.60	0.66
16:AP:65:VAL:CG2	16:AP:66:ALA:N	2.58	0.66
17:AQ:39:ARG:O	17:AQ:42:ILE:HG13	1.95	0.66
19:AS:6:LYS:NZ	19:AS:10:LYS:HD2	2.10	0.66
19:AS:15:GLU:HA	19:AS:100:ARG:NH1	2.07	0.66
22:AV:41:GLY:O	22:AV:42:VAL:HG13	1.95	0.66
24:AX:25:ARG:HG3	24:AX:37:LEU:HA	1.76	0.66
29:Ac:17:LYS:HE3	29:Ac:48:VAL:HG11	1.76	0.66
34:BA:129(A):G:H3'	34:BA:129(A):G:H8	1.61	0.66
34:BA:160:A:C1'	34:BA:344:A:N7	2.59	0.66
34:BA:795:C:O4'	34:BA:1506:U:C2	2.49	0.66
34:BA:831:U:H2'	34:BA:832:C:C6	2.29	0.66
34:BA:834:C:N4	34:BA:853:G:C6	2.63	0.66
34:BA:1165:C:H2'	34:BA:1166:G:H8	1.60	0.66
34:BA:1256:A:O3'	34:BA:1257:U:C4'	2.41	0.66
35:BF:82:ARG:CA	35:BF:92:TYR:HE1	2.07	0.66
36:BG:24:ALA:HB2	36:BG:32:LEU:HD12	1.76	0.66
36:BG:70:VAL:HG12	36:BG:71:ALA:H	1.59	0.66
36:BG:118:GLN:O	36:BG:121:ALA:HB3	1.94	0.66
38:BI:102:ALA:HB1	38:BI:106:PRO:CB	2.25	0.66
39:BJ:11:ASN:HD22	39:BJ:86:ARG:HH22	1.41	0.66
39:BJ:12:PRO:HB2	39:BJ:57:GLN:HE21	1.61	0.66
40:BK:143:ARG:HD3	40:BK:144:MET:N	2.10	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:58:PRO:CB	44:BO:93:GLN:HB2	2.19	0.66
46:BQ:56:LEU:CD1	46:BQ:60:VAL:CG2	2.72	0.66
55:CA:205:PHE:HA	55:CA:229:GLY:CA	2.25	0.66
55:CA:405:LEU:HD11	55:CA:464:LEU:CD2	2.24	0.66
55:CA:483:ARG:HG3	55:CA:573:ASP:OD2	1.95	0.66
1:AA:251:A:C4	1:AA:252:G:H1'	2.30	0.66
1:AA:378:C:O2'	1:AA:379:G:H5'	1.95	0.66
1:AA:388:G:N2	1:AA:390:A:C2	2.63	0.66
1:AA:552:G:O2'	1:AA:553:U:H5'	1.94	0.66
1:AA:657:U:H2'	1:AA:658:C:C6	2.28	0.66
1:AA:663:G:H4'	13:AM:18:ARG:CZ	2.26	0.66
1:AA:703:U:H2'	1:AA:704:G:H1'	1.77	0.66
1:AA:772:C:O2'	1:AA:773:U:H5'	1.96	0.66
1:AA:778:G:C2	1:AA:787:U:C2	2.83	0.66
1:AA:931:G:H21	26:AZ:25:ALA:N	1.94	0.66
1:AA:1023:U:C4	1:AA:1024:G:H1'	2.29	0.66
1:AA:1069:A:N7	1:AA:1073:A:N7	2.43	0.66
1:AA:1080:C:H2'	1:AA:1081:U:C6	2.30	0.66
1:AA:1164:G:C6	1:AA:1165:U:C4	2.83	0.66
1:AA:1183:G:OP2	1:AA:1183:G:O3'	2.13	0.66
1:AA:1203:G:C5	1:AA:1240:U:N3	2.63	0.66
1:AA:1203:G:C4	1:AA:1241:A:C8	2.81	0.66
1:AA:1363:C:O3'	1:AA:1809:A:C6	2.48	0.66
1:AA:1376:C:C2	1:AA:1377:G:C8	2.82	0.66
1:AA:1398:C:O2'	1:AA:1399:C:H5'	1.94	0.66
1:AA:1500:G:H2'	1:AA:1501:C:C6	2.31	0.66
1:AA:1528:A:N1	1:AA:1545:A:N1	2.43	0.66
1:AA:1630:G:H2'	1:AA:1630(A):C:H6	1.61	0.66
1:AA:1636:C:H1'	1:AA:1761:C:H1'	1.76	0.66
1:AA:1750:G:O2'	1:AA:2860:A:N1	2.27	0.66
1:AA:1838:C:H2'	1:AA:1838:C:O2	1.95	0.66
1:AA:1951:U:H2'	1:AA:1953:A:O5'	1.95	0.66
1:AA:2305:A:O3'	7:AG:136:ARG:HG2	1.95	0.66
1:AA:2792:G:O2'	1:AA:2805:G:N2	2.27	0.66
1:AA:2863:C:O2'	1:AA:2864:G:H5'	1.95	0.66
1:AA:2872:G:N2	1:AA:2873:A:N1	2.42	0.66
1:AA:2875:C:H2'	1:AA:2876:G:O4'	1.95	0.66
1:AA:2876:G:P	17:AQ:2:ASN:HB3	2.35	0.66
3:AC:20:TYR:HE1	3:AC:222:VAL:HG22	1.60	0.66
3:AC:60:GLY:O	3:AC:61:THR:HB	1.95	0.66
3:AC:60:GLY:O	3:AC:162:GLU:HG3	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:108:MET:HE1	3:AC:131:LEU:HA	1.77	0.66
4:AD:143:HIS:O	4:AD:145:VAL:N	2.26	0.66
7:AG:16:ARG:HB3	7:AG:17:PRO:CD	2.25	0.66
7:AG:59:GLU:CD	7:AG:152:LEU:HD13	2.20	0.66
8:AH:8:PRO:CA	8:AH:51:ARG:NH2	2.57	0.66
8:AH:137:ASP:HB3	8:AH:140:LYS:HG2	1.76	0.66
10:AJ:104:VAL:CG1	10:AJ:127:ILE:HD11	1.48	0.66
11:AK:123:TYR:C	11:AK:125:GLY:H	2.02	0.66
12:AL:106:LEU:HD12	12:AL:106:LEU:C	2.20	0.66
13:AM:54:GLY:HA2	31:Ae:12:LYS:HD3	1.76	0.66
14:AN:56:ARG:CD	14:AN:57:HIS:N	2.58	0.66
14:AN:126:PRO:C	14:AN:127:ILE:HG13	2.19	0.66
16:AP:29:PHE:CD1	16:AP:29:PHE:O	2.48	0.66
17:AQ:115:ARG:CB	34:BA:1463:C:OP1	2.43	0.66
18:AR:47:TYR:OH	19:AS:76:LYS:C	2.38	0.66
18:AR:84:LYS:CA	18:AR:84:LYS:HE2	2.25	0.66
20:AT:28:SER:CA	20:AT:70:TYR:HA	2.23	0.66
20:AT:75:TYR:O	20:AT:104:THR:O	2.14	0.66
21:AU:16:LYS:H	21:AU:16:LYS:CE	2.08	0.66
23:AW:51:ALA:C	23:AW:53:ILE:H	1.94	0.66
23:AW:128:VAL:HG23	23:AW:164:ALA:HB2	1.75	0.66
24:AX:68:GLU:HB3	24:AX:80:HIS:C	2.20	0.66
27:Aa:44:THR:HG22	27:Aa:45:GLY:N	2.09	0.66
27:Aa:57:GLU:HA	27:Aa:61:ARG:NH1	2.10	0.66
27:Aa:59:PHE:O	27:Aa:60:GLN:C	2.38	0.66
34:BA:380:G:N2	34:BA:382:A:H3'	2.11	0.66
34:BA:617:G:H4'	49:BT:44:THR:OG1	1.94	0.66
34:BA:781:A:O2'	34:BA:782:A:H5'	1.95	0.66
34:BA:1116:C:H6	34:BA:1116:C:O5'	1.78	0.66
34:BA:1128:C:C3'	42:BM:16:ARG:HH22	2.09	0.66
34:BA:1163:C:C4	34:BA:1174:G:N1	2.63	0.66
34:BA:1349:A:H2'	34:BA:1350:A:C8	2.29	0.66
41:BL:31:PHE:O	41:BL:35:ILE:HG12	1.96	0.66
42:BM:51:ARG:HH11	42:BM:51:ARG:CA	2.07	0.66
43:BN:8:LEU:HD22	43:BN:94:VAL:CG1	2.25	0.66
46:BQ:81:LEU:HD22	46:BQ:81:LEU:C	2.19	0.66
48:BS:34:LEU:HD12	48:BS:35:ARG:N	2.09	0.66
50:BU:16:GLN:O	50:BU:17:LYS:HB2	1.95	0.66
52:BW:11:VAL:HG12	52:BW:15:LEU:HD12	1.76	0.66
53:BX:28:ALA:O	53:BX:31:SER:OG	2.13	0.66
55:CA:35:ARG:HA	55:CA:36:ALA:C	2.19	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:109:THR:O	55:CA:113:THR:HG23	1.95	0.66
55:CA:200:ASP:HB3	55:CA:228:ARG:HG2	1.72	0.66
55:CA:483:ARG:NH1	55:CA:573:ASP:CB	2.55	0.66
55:CA:495:LYS:CB	55:CA:515:GLY:O	2.43	0.66
1:AA:38:A:H1'	6:AF:48:THR:HB	1.76	0.66
1:AA:64:A:H5'	21:AU:73:ARG:HA	1.75	0.66
1:AA:71:A:H5''	1:AA:73:A:C8	2.30	0.66
1:AA:84:A:H1'	1:AA:103:A:N6	2.10	0.66
1:AA:124:G:OP1	1:AA:1376:C:H1'	1.95	0.66
1:AA:270:A:H2'	1:AA:270(A):A:C4'	2.25	0.66
1:AA:280:C:N4	1:AA:283:A:N6	2.44	0.66
1:AA:371:A:C5'	1:AA:423:A:N7	2.54	0.66
1:AA:619:G:O6	6:AF:103:LYS:NZ	2.22	0.66
1:AA:715:G:H22	48:BS:53:HIS:HB2	1.61	0.66
1:AA:746:A:O2'	1:AA:747:U:OP2	2.12	0.66
1:AA:832:G:OP1	13:AM:36:LYS:NZ	2.28	0.66
1:AA:997:G:OP1	18:AR:92:ARG:CD	2.43	0.66
1:AA:1061:U:H2'	10:AJ:52:ILE:CD1	2.21	0.66
1:AA:1391:U:H2'	1:AA:1391:U:O2	1.95	0.66
1:AA:1832:C:C2'	1:AA:1833:U:H5'	2.25	0.66
1:AA:1943:U:H1'	1:AA:1945:G:H5''	1.75	0.66
1:AA:2209:C:O2'	1:AA:2210:G:H3'	1.95	0.66
1:AA:2411:A:H2'	1:AA:2412:A:C8	2.30	0.66
1:AA:2491:U:N1	1:AA:2492:U:H5'	2.10	0.66
1:AA:2592:G:C6	1:AA:2593:U:C4	2.83	0.66
1:AA:2742:C:OP1	32:Af:35:ARG:HD3	1.96	0.66
2:AB:110:G:C2	2:AB:111:U:H1'	2.31	0.66
4:AD:252:TRP:CE3	4:AD:252:TRP:HA	2.29	0.66
4:AD:260:ARG:CG	4:AD:260:ARG:HH11	2.08	0.66
5:AE:30:PRO:CA	5:AE:49:LEU:O	2.39	0.66
5:AE:102:VAL:CG2	5:AE:103:ASP:N	2.59	0.66
6:AF:201:VAL:CG1	6:AF:205:ARG:HH21	2.07	0.66
7:AG:60:LEU:CD2	7:AG:90:LEU:HD11	2.22	0.66
11:AK:23:LEU:HD11	11:AK:62:VAL:HA	1.75	0.66
11:AK:33:LEU:HD22	11:AK:33:LEU:C	2.19	0.66
11:AK:48:MET:C	11:AK:50:ASP:H	2.02	0.66
13:AM:76:LYS:HD2	13:AM:101:VAL:HG21	1.78	0.66
13:AM:121:LYS:H	13:AM:137:LYS:HB2	1.59	0.66
14:AN:6:ARG:HD3	14:AN:6:ARG:C	2.19	0.66
14:AN:20:ALA:O	14:AN:21:THR:HB	1.94	0.66
14:AN:54:MET:HB3	14:AN:58:PHE:HE2	1.60	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:49:ASP:O	15:AO:52:ILE:HG22	1.96	0.66
15:AO:86:ARG:HH12	15:AO:87:TYR:HE1	1.43	0.66
17:AQ:28:VAL:O	17:AQ:52:ILE:CG1	2.42	0.66
18:AR:40:PHE:HD2	19:AS:78:LYS:HE2	1.60	0.66
18:AR:97:ASP:HB3	18:AR:101:ARG:NH2	2.10	0.66
21:AU:92:LEU:HD12	21:AU:92:LEU:N	2.10	0.66
23:AW:158:PRO:HB2	23:AW:159:PRO:CD	2.23	0.66
24:AX:62:LEU:O	24:AX:62:LEU:HD23	1.95	0.66
24:AX:68:GLU:CD	24:AX:82:ARG:HB2	2.21	0.66
26:AZ:10:LYS:NZ	26:AZ:12:PRO:CG	2.58	0.66
30:Ad:9:ARG:O	30:Ad:13:ALA:CB	2.43	0.66
30:Ad:30:VAL:HG13	30:Ad:33:ARG:NH2	2.10	0.66
31:Ae:55:ALA:N	31:Ae:56:GLU:OE1	2.28	0.66
34:BA:255:G:O4'	50:BU:16:GLN:HB2	1.95	0.66
34:BA:665:A:C8	34:BA:733:A:C2	2.83	0.66
34:BA:821:G:O2'	34:BA:822:C:H5'	1.94	0.66
34:BA:978:A:O2'	34:BA:979:C:H5'	1.96	0.66
34:BA:981:U:H6	34:BA:981:U:O5'	1.79	0.66
34:BA:1014:A:O2'	52:BW:34:TRP:CZ3	2.48	0.66
34:BA:1100:C:OP2	35:BF:98:LEU:HD21	1.95	0.66
34:BA:1138:G:C6	34:BA:1140:C:C6	2.83	0.66
34:BA:1152:A:H2'	34:BA:1153:C:H5'	1.77	0.66
34:BA:1167:A:N3	34:BA:1167:A:H2'	2.10	0.66
34:BA:1309:G:C5	34:BA:1330:U:C4	2.83	0.66
34:BA:1317:C:C2	34:BA:1318:A:N9	2.64	0.66
34:BA:1399:C:N3	34:BA:1502:A:N6	2.43	0.66
35:BF:12:GLU:C	35:BF:14:GLY:H	2.01	0.66
35:BF:69:LEU:HB2	35:BF:159:PRO:HB2	1.76	0.66
35:BF:78:GLN:NE2	35:BF:96:ARG:NH2	2.43	0.66
35:BF:80:ILE:HG21	35:BF:211:ILE:HG21	1.78	0.66
35:BF:84:GLU:N	35:BF:234:PRO:HG3	2.10	0.66
35:BF:217:ARG:HG3	35:BF:217:ARG:HH11	1.61	0.66
36:BG:124:ILE:HG12	36:BG:130:VAL:HG22	1.75	0.66
36:BG:136:GLN:O	36:BG:139:GLN:HB2	1.96	0.66
37:BH:10:ARG:NH1	37:BH:14:ARG:HB2	2.10	0.66
37:BH:20:TYR:O	37:BH:26:CYS:SG	2.53	0.66
37:BH:39:PRO:O	37:BH:44:GLY:HA3	1.95	0.66
38:BI:81:GLU:CA	38:BI:90:VAL:HG22	2.25	0.66
39:BJ:81:ILE:O	39:BJ:83:ASP:N	2.27	0.66
40:BK:94:ARG:HG3	40:BK:94:ARG:NH1	2.09	0.66
41:BL:54:ASP:HB2	41:BL:56:LYS:HD3	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:18:ALA:CB	43:BN:91:PRO:HB3	2.23	0.66
45:BP:34:ARG:HD3	45:BP:105:TYR:OH	1.95	0.66
46:BQ:81:LEU:HD13	46:BQ:81:LEU:N	2.09	0.66
46:BQ:96:LEU:H	46:BQ:96:LEU:HD23	1.59	0.66
55:CA:15:ASP:CG	55:CA:106:MET:HG2	2.21	0.66
55:CA:208:GLN:O	55:CA:210:SER:N	2.29	0.66
55:CA:223:ILE:N	55:CA:272:ASP:CB	2.22	0.66
55:CA:446:ARG:HH11	55:CA:480:VAL:H	1.42	0.66
1:AA:195:A:H2'	1:AA:198:C:H42	1.60	0.66
1:AA:270(Q):C:H2'	1:AA:270(R):G:H8	1.59	0.66
1:AA:347:A:H2'	1:AA:347:A:N3	2.11	0.66
1:AA:465:G:O6	1:AA:466:A:N6	2.29	0.66
1:AA:740:U:P	1:AA:1784:A:N1	2.68	0.66
1:AA:750:A:H2'	20:AT:90:ARG:HH22	1.60	0.66
1:AA:800:A:O2'	1:AA:801:G:C5'	2.44	0.66
1:AA:951:C:HO2'	1:AA:952:G:H5'	1.60	0.66
1:AA:1024:G:H3'	1:AA:1025:G:C5'	2.26	0.66
1:AA:1033:U:C5'	32:Af:16:VAL:HG11	2.26	0.66
1:AA:1036:G:OP1	8:AH:59:ARG:CD	2.42	0.66
1:AA:1264:G:C5'	1:AA:1265:A:H5''	2.23	0.66
1:AA:1352:U:O2	1:AA:1352:U:H2'	1.94	0.66
1:AA:1358:G:N2	1:AA:1374:G:O6	2.29	0.66
1:AA:1799:G:N2	4:AD:157:ARG:HH22	1.93	0.66
1:AA:2031:A:H62	1:AA:2498:C:C1'	2.08	0.66
1:AA:2075:U:O4'	1:AA:2597:G:N2	2.29	0.66
1:AA:2125:G:H22	1:AA:2172:U:H5'	1.59	0.66
1:AA:2564:A:C2	1:AA:2647:U:H4'	2.31	0.66
1:AA:2797:U:C5'	1:AA:2798:C:H4'	2.25	0.66
1:AA:2844:G:H2'	1:AA:2844:G:N3	2.09	0.66
2:AB:13:A:H61	2:AB:69:G:C2'	2.08	0.66
5:AE:31:CYS:HB3	5:AE:32:PRO:HD2	1.78	0.66
5:AE:103:ASP:O	5:AE:104:VAL:CG2	2.43	0.66
6:AF:41:LEU:HA	6:AF:44:ARG:HE	1.58	0.66
6:AF:176:LEU:C	6:AF:178:PRO:HD2	2.19	0.66
6:AF:184:TYR:O	6:AF:185:ASP:C	2.38	0.66
7:AG:118:ARG:HG3	7:AG:119:GLY:N	2.10	0.66
7:AG:120:LEU:HD22	7:AG:181:ARG:CG	2.24	0.66
7:AG:181:ARG:N	7:AG:181:ARG:CD	2.58	0.66
10:AJ:103:GLN:HG3	10:AJ:106:GLU:OE2	1.96	0.66
11:AK:87:LEU:HD23	11:AK:88:GLU:OE1	1.94	0.66
13:AM:96:THR:OG1	13:AM:102:ARG:HD3	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:117:GLU:HG2	13:AM:118:GLY:H	1.60	0.66
15:AO:17:ARG:CG	15:AO:18:LEU:H	2.09	0.66
15:AO:20:LEU:C	15:AO:20:LEU:CD1	2.67	0.66
18:AR:80:ILE:O	18:AR:84:LYS:HG2	1.95	0.66
18:AR:85:LYS:NZ	18:AR:117:GLN:O	2.22	0.66
18:AR:111:GLU:CA	18:AR:114:LYS:HZ1	2.06	0.66
22:AV:37:VAL:HG22	22:AV:39:VAL:HG23	1.77	0.66
22:AV:47:LYS:HD3	22:AV:49:VAL:CG2	2.19	0.66
24:AX:22:GLY:O	24:AX:38:VAL:HG13	1.95	0.66
27:Aa:58:ARG:H	27:Aa:61:ARG:NH1	1.94	0.66
27:Aa:59:PHE:HD1	27:Aa:60:GLN:HG2	1.59	0.66
31:Ae:26:LYS:CA	31:Ae:47:LYS:HG2	2.24	0.66
32:Af:32:HIS:O	32:Af:34:GLN:N	2.29	0.66
34:BA:61:G:H2'	34:BA:62:U:H6	1.56	0.66
34:BA:250:A:O2'	34:BA:251:G:OP2	2.14	0.66
34:BA:314:C:H2'	34:BA:315:A:H1'	1.78	0.66
34:BA:570:G:C5'	34:BA:820:U:H1'	2.19	0.66
34:BA:705:U:C5	34:BA:706:A:N7	2.64	0.66
34:BA:715:A:O2'	34:BA:716:A:H5'	1.96	0.66
34:BA:834:C:O2'	34:BA:835:U:C5'	2.42	0.66
34:BA:872:A:H2'	34:BA:873:A:C5'	2.24	0.66
34:BA:888:G:C2	34:BA:889:A:N6	2.63	0.66
34:BA:937:A:H1'	34:BA:1379:G:N2	2.10	0.66
34:BA:1003:G:C6	34:BA:1004:A:H1'	2.30	0.66
34:BA:1231:G:OP1	42:BM:126:SER:OG	2.13	0.66
34:BA:1269:A:C1'	34:BA:1312:G:H21	2.08	0.66
34:BA:1412:C:O2	34:BA:1489:G:N1	2.27	0.66
35:BF:91:PRO:HG2	35:BF:155:LEU:HD23	1.78	0.66
35:BF:184:VAL:O	35:BF:198:ASP:CB	2.36	0.66
37:BH:26:CYS:O	37:BH:33:MET:CG	2.43	0.66
40:BK:12:LEU:HD12	40:BK:12:LEU:O	1.94	0.66
40:BK:46:ALA:HB2	40:BK:120:ILE:HD12	1.76	0.66
44:BO:48:ILE:CG2	44:BO:63:LEU:HD13	2.25	0.66
45:BP:114:LYS:O	45:BP:117:ARG:NH1	2.27	0.66
46:BQ:15:VAL:CG2	46:BQ:34:LEU:CD2	2.73	0.66
55:CA:102:PHE:CE2	55:CA:134:GLY:O	2.48	0.66
55:CA:164:TYR:CE1	55:CA:175:ASP:HB2	2.30	0.66
55:CA:249:ALA:CB	55:CA:275:ALA:HB1	2.25	0.66
1:AA:46:C:N4	1:AA:214:G:H8	1.94	0.66
1:AA:270(B):A:H1'	1:AA:270(C):C:C6	2.30	0.66
1:AA:469:G:H1	30:Ad:40:TRP:NE1	1.93	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:479:A:O2'	1:AA:480:A:H3'	1.96	0.66
1:AA:501:A:O5'	1:AA:501:A:C8	2.45	0.66
1:AA:573:G:O2'	1:AA:574:C:O5'	2.13	0.66
1:AA:627:A:OP2	1:AA:627:A:C4'	2.43	0.66
1:AA:895:U:O5'	1:AA:895:U:H6	1.79	0.66
1:AA:1033:U:H5'	32:Af:16:VAL:HG11	1.78	0.66
1:AA:1277:G:O2'	1:AA:1278:A:H5'	1.95	0.66
1:AA:1354:A:H2'	1:AA:1355:G:H5'	1.75	0.66
1:AA:1373:A:H2'	1:AA:1374:G:C8	2.30	0.66
1:AA:1378:A:H2'	1:AA:1380:G:N7	2.11	0.66
1:AA:1491:G:N1	1:AA:1493:C:N4	2.43	0.66
1:AA:1491:G:O4'	4:AD:99:ASP:HB2	1.96	0.66
1:AA:1497:U:O4	1:AA:1577:C:O5'	2.14	0.66
1:AA:1519:G:H4'	1:AA:1519:G:OP1	1.95	0.66
1:AA:1520:U:C3'	1:AA:1521:G:H5''	2.26	0.66
1:AA:1657:C:H2'	1:AA:1658:C:C6	2.26	0.66
1:AA:2262:U:O2'	1:AA:2328:A:N3	2.24	0.66
1:AA:2285:C:H5	29:Ac:27:LYS:NZ	1.94	0.66
1:AA:2356:C:H3'	1:AA:2357:U:H5	1.61	0.66
1:AA:2767:C:C2	1:AA:2768:C:H5	2.12	0.66
1:AA:2781:A:O3'	1:AA:2782:G:H4'	1.96	0.66
3:AC:27:HIS:CD2	3:AC:182:PRO:HB3	2.31	0.66
3:AC:56:GLN:O	3:AC:201:PRO:HG3	1.95	0.66
4:AD:127:VAL:HA	4:AD:193:VAL:CG1	2.16	0.66
4:AD:208:LYS:NZ	4:AD:211:ARG:NH2	2.43	0.66
4:AD:261:LYS:O	4:AD:262:ARG:C	2.36	0.66
5:AE:15:PHE:CE2	5:AE:16:ARG:HG3	2.31	0.66
5:AE:59:VAL:CB	5:AE:62:PRO:HD2	2.26	0.66
5:AE:102:VAL:O	5:AE:169:ASN:ND2	2.27	0.66
6:AF:45:ARG:HG3	6:AF:46:ARG:H	1.60	0.66
6:AF:78:ILE:HD13	6:AF:79:GLY:H	1.60	0.66
7:AG:11:TYR:O	7:AG:15:VAL:HG22	1.95	0.66
7:AG:18:GLU:OE1	7:AG:19:LEU:HD12	1.95	0.66
7:AG:32:PRO:CB	7:AG:163:ALA:HA	2.24	0.66
7:AG:41:GLN:HG3	7:AG:42:GLY:H	1.60	0.66
7:AG:94:LEU:HB2	7:AG:99:MET:CE	2.25	0.66
7:AG:181:ARG:H	7:AG:181:ARG:CD	2.08	0.66
8:AH:40:GLU:HG3	8:AH:61:HIS:NE2	2.11	0.66
9:AI:56:ASN:HA	9:AI:83:TYR:HA	1.77	0.66
11:AK:67:LEU:N	11:AK:87:LEU:HD21	2.09	0.66
12:AL:103:ALA:O	12:AL:104:ARG:C	2.39	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:6:SER:OG	15:AO:9:LYS:NZ	2.27	0.66
16:AP:30:ARG:CG	16:AP:91:PRO:HG3	2.26	0.66
17:AQ:39:ARG:HH11	34:BA:345:C:H3'	1.51	0.66
17:AQ:45:PHE:CE1	17:AQ:87:ASP:HB2	2.31	0.66
17:AQ:53:ARG:HH21	17:AQ:102:ILE:CD1	2.09	0.66
17:AQ:64:ARG:NE	17:AQ:77:PRO:CB	2.59	0.66
20:AT:25:ARG:HA	20:AT:71:VAL:CG1	2.24	0.66
21:AU:39:ILE:HB	21:AU:54:VAL:HG11	1.78	0.66
22:AV:1:MET:H2	22:AV:33:LYS:HE3	1.61	0.66
22:AV:74:PRO:CB	22:AV:101:LYS:N	2.59	0.66
23:AW:165:VAL:CG1	23:AW:166:SER:N	2.50	0.66
25:AY:27:LEU:HD21	25:AY:48:LEU:C	2.21	0.66
27:Aa:56:VAL:HG12	27:Aa:57:GLU:N	2.06	0.66
34:BA:236:G:H3'	34:BA:237:C:C6	2.30	0.66
34:BA:390:C:H2'	34:BA:391:G:H8	1.60	0.66
34:BA:451:A:H61	34:BA:480:U:H2'	1.60	0.66
34:BA:1060:C:H4'	43:BN:52:GLY:CA	2.26	0.66
34:BA:1117:G:N3	34:BA:1184:G:N3	2.43	0.66
34:BA:1190:G:OP2	36:BG:5:ILE:HG13	1.95	0.66
34:BA:1333:A:O5'	34:BA:1333:A:H8	1.79	0.66
34:BA:1433:A:H62	34:BA:1467:G:H21	0.79	0.66
34:BA:1446:A:H2'	34:BA:1447:G:C5'	2.26	0.66
34:BA:1514:C:H2'	34:BA:1515:C:H6	1.58	0.66
35:BF:72:GLY:HA2	35:BF:165:VAL:CG2	2.25	0.66
37:BH:12:CYS:HB3	37:BH:31:CYS:O	1.95	0.66
38:BI:24:ARG:C	38:BI:25:ARG:HD3	2.20	0.66
38:BI:61:TYR:HA	38:BI:64:ARG:CG	2.25	0.66
38:BI:141:GLN:C	38:BI:142:LEU:HG	2.20	0.66
39:BJ:50:TYR:OH	51:BV:77:GLY:CA	2.43	0.66
39:BJ:53:ALA:HB2	39:BJ:86:ARG:HD2	1.77	0.66
40:BK:70:LYS:HA	40:BK:100:ALA:CB	2.25	0.66
41:BL:109:ILE:O	41:BL:136:GLU:HB2	1.95	0.66
42:BM:93:ARG:NH2	42:BM:97:LYS:HG2	2.10	0.66
43:BN:11:PHE:CZ	43:BN:65:LEU:HG	2.31	0.66
45:BP:53:ARG:NE	45:BP:92:ASP:OD2	2.29	0.66
45:BP:84:LEU:CG	45:BP:85:ILE:N	2.56	0.66
46:BQ:12:ASN:C	46:BQ:44:ARG:CG	2.68	0.66
46:BQ:15:VAL:HG21	46:BQ:39:ILE:CD1	0.50	0.66
50:BU:35:VAL:CG1	50:BU:36:ILE:N	2.58	0.66
52:BW:11:VAL:HG11	52:BW:15:LEU:HB2	1.76	0.66
55:CA:67:ASP:N	55:CA:68:TYR:HA	2.11	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:102:PHE:HA	55:CA:135:ALA:HB2	1.77	0.66
55:CA:395:ARG:CD	55:CA:474:ASP:HB2	2.21	0.66
55:CA:397:GLN:C	55:CA:472:TYR:CD1	2.73	0.66
1:AA:49:A:H2	1:AA:120:U:H3	1.43	0.66
1:AA:76:C:O2'	25:AY:54:ARG:HA	1.96	0.66
1:AA:229:A:H5'	1:AA:230:U:OP1	1.95	0.66
1:AA:292:C:C6	1:AA:293:U:O4	2.49	0.66
1:AA:459:U:H5	1:AA:469:G:N2	1.94	0.66
1:AA:565:C:H2'	1:AA:565:C:O2	1.95	0.66
1:AA:566:U:C6	1:AA:567:A:N7	2.63	0.66
1:AA:846:C:H1'	1:AA:847:U:C5	2.29	0.66
1:AA:961:C:C5	1:AA:2031:A:C2	2.84	0.66
1:AA:977:G:H2'	1:AA:978:G:C4'	2.26	0.66
1:AA:1070:A:H5''	1:AA:1071:G:OP1	1.96	0.66
1:AA:1081:U:H4'	10:AJ:125:ARG:HB2	1.75	0.66
1:AA:1105:U:C2	1:AA:1107:G:C5	2.84	0.66
1:AA:1287:A:H5'	15:AO:104:ARG:HG3	1.77	0.66
1:AA:1399:C:H2'	1:AA:1400:G:C8	2.29	0.66
1:AA:1477:A:C3'	1:AA:1478:G:O4'	2.43	0.66
1:AA:1703:G:O2'	1:AA:1704:G:H5'	1.95	0.66
1:AA:2132:U:H2'	1:AA:2134:A:C8	2.31	0.66
1:AA:2172:U:O2'	1:AA:2173:A:OP1	2.10	0.66
1:AA:2303:G:O2'	7:AG:132:ASN:CG	2.39	0.66
1:AA:2661:G:P	55:CA:14:VAL:HG11	2.35	0.66
3:AC:49:ILE:HG13	3:AC:51:PRO:HD3	1.77	0.66
3:AC:200:LYS:NZ	3:AC:204:ALA:HB3	2.10	0.66
4:AD:8:PRO:CD	4:AD:26:LYS:O	2.44	0.66
4:AD:61:LEU:HD22	4:AD:63:ARG:HH22	1.60	0.66
5:AE:169:ASN:ND2	5:AE:170:LEU:N	2.44	0.66
6:AF:74:ARG:NH2	6:AF:75:HIS:CA	2.57	0.66
6:AF:192:LEU:HD22	6:AF:193:VAL:N	2.10	0.66
7:AG:56:ALA:O	7:AG:59:GLU:HG3	1.95	0.66
7:AG:93:THR:HG22	7:AG:93:THR:O	1.95	0.66
10:AJ:90:LYS:HE2	10:AJ:90:LYS:N	2.11	0.66
12:AL:10:VAL:H	12:AL:17:ARG:CG	2.05	0.66
12:AL:89:ASN:HD22	12:AL:91:LEU:HB2	1.58	0.66
14:AN:122:GLY:C	14:AN:124:LYS:N	2.47	0.66
14:AN:132:VAL:HG12	14:AN:133:ARG:NH2	2.09	0.66
16:AP:10:ARG:HH11	16:AP:89:ARG:HH22	1.44	0.66
16:AP:28:VAL:HA	16:AP:37:ALA:HB2	1.77	0.66
17:AQ:20:PRO:HB3	17:AQ:22:PHE:CE1	2.30	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:20:PRO:HA	17:AQ:22:PHE:CZ	2.31	0.66
17:AQ:57:PHE:N	17:AQ:57:PHE:CD1	2.63	0.66
22:AV:95:LYS:HE3	22:AV:103:GLY:N	2.11	0.66
23:AW:9:TYR:HB2	23:AW:14:LYS:CG	2.26	0.66
23:AW:118:GLN:NE2	23:AW:120:ILE:HG23	2.09	0.66
24:AX:46:LYS:HE2	24:AX:77:ARG:N	2.11	0.66
33:Ag:7:UNK:CA	33:Ag:144:UNK:CA	2.70	0.66
34:BA:292:G:C5	34:BA:293:G:H1'	2.29	0.66
34:BA:331:G:OP1	34:BA:332:G:C8	2.48	0.66
34:BA:437:U:H2'	34:BA:438:G:O4'	1.96	0.66
34:BA:701:C:O2'	34:BA:702:A:OP2	2.12	0.66
34:BA:959:A:C2'	34:BA:960:U:H4'	2.25	0.66
34:BA:961:U:H2'	34:BA:962:C:O4'	1.95	0.66
34:BA:963:G:H2'	34:BA:964:A:H8	1.61	0.66
34:BA:1114:C:O2'	47:BR:60:SER:HB3	1.96	0.66
34:BA:1148:U:O2'	34:BA:1149:C:H5'	1.96	0.66
34:BA:1200:C:H5''	34:BA:1201:A:H3'	1.77	0.66
34:BA:1326:C:H2'	34:BA:1327:C:H6	1.60	0.66
34:BA:1405:G:H2'	34:BA:1406:U:H6	1.61	0.66
34:BA:1462:G:C2'	34:BA:1463:C:H5'	2.25	0.66
34:BA:1508:G:O2'	34:BA:1509:C:H5'	1.96	0.66
35:BF:60:ASP:CG	35:BF:64:ARG:NH2	2.53	0.66
35:BF:126:GLU:O	35:BF:129:GLU:HB2	1.96	0.66
36:BG:94:LEU:O	36:BG:94:LEU:HD23	1.95	0.66
37:BH:118:ARG:HG3	37:BH:136:PRO:CB	2.26	0.66
37:BH:119:GLN:HG3	37:BH:123:HIS:CE1	2.31	0.66
37:BH:123:HIS:HB2	37:BH:125:HIS:CE1	2.31	0.66
41:BL:100:ILE:HD13	41:BL:125:ARG:HE	1.60	0.66
45:BP:34:ARG:HB2	45:BP:105:TYR:OH	1.95	0.66
47:BR:16:PHE:HE1	52:BW:14:HIS:CE1	2.09	0.66
52:BW:9:VAL:HG22	52:BW:42:PRO:CD	2.26	0.66
52:BW:40:ILE:HG12	52:BW:71:LEU:HD23	1.77	0.66
55:CA:250:LYS:O	55:CA:251:VAL:HG13	1.78	0.66
55:CA:294:VAL:C	55:CA:295:GLU:HG2	2.21	0.66
1:AA:107:C:H4'	1:AA:293:U:C1'	2.23	0.66
1:AA:195:A:N7	1:AA:197:A:OP1	2.29	0.66
1:AA:370:G:N3	1:AA:424:G:N7	2.43	0.66
1:AA:401:A:N6	1:AA:423:A:C2	2.63	0.66
1:AA:470:A:C6	1:AA:471:A:N3	2.63	0.66
1:AA:583:G:O2'	1:AA:584:C:H5'	1.96	0.66
1:AA:901:A:C8	1:AA:902:C:C5	2.83	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1019:U:H6	1:AA:1019:U:H5''	1.60	0.66
1:AA:1023:U:OP2	1:AA:1025:G:C6	2.49	0.66
1:AA:1027:A:H61	1:AA:1126:A:H1'	1.60	0.66
1:AA:1032:A:OP2	32:Af:8:LYS:HG3	1.96	0.66
1:AA:1208:C:N4	1:AA:1209:G:O6	2.28	0.66
1:AA:1225:C:O5'	19:AS:87:HIS:HE1	1.77	0.66
1:AA:1226:G:H3'	1:AA:1226:G:H8	1.61	0.66
1:AA:1386:C:H2'	1:AA:1387:C:H6	1.60	0.66
1:AA:1485:G:H2'	1:AA:1486:A:C8	2.31	0.66
1:AA:1627:G:N2	1:AA:1628:G:H1'	2.11	0.66
1:AA:1703:G:N2	1:AA:1704:G:H1'	2.11	0.66
1:AA:1735:C:N3	1:AA:1741:C:N4	2.40	0.66
1:AA:1818:U:H2'	1:AA:1818:U:O2	1.94	0.66
1:AA:1952:A:C5	1:AA:1953:A:C2	2.84	0.66
1:AA:2187:G:H2'	1:AA:2188:C:C6	2.30	0.66
1:AA:2227:A:H5''	4:AD:260:ARG:CD	2.24	0.66
1:AA:2280:G:C2	1:AA:2281:C:C5	2.83	0.66
1:AA:2471:C:H4'	55:CA:529:ARG:CZ	2.26	0.66
1:AA:2529:G:H5''	1:AA:2530:A:H5''	1.77	0.66
1:AA:2635:C:O3'	5:AE:78:LEU:HD12	1.96	0.66
1:AA:2678:C:C2	1:AA:2679:A:C8	2.83	0.66
1:AA:2832:U:H1'	1:AA:2834:G:N3	2.10	0.66
2:AB:61:G:N2	2:AB:62:C:C2	2.64	0.66
2:AB:105:G:H4'	23:AW:32:HIS:CE1	2.31	0.66
3:AC:62:VAL:HG21	3:AC:191:ALA:O	1.95	0.66
3:AC:120:MET:SD	3:AC:145:VAL:HG22	2.36	0.66
4:AD:7:LYS:HZ2	4:AD:91:ARG:HD2	1.61	0.66
6:AF:117:ARG:NE	6:AF:190:GLU:O	2.29	0.66
6:AF:122:LYS:HE3	6:AF:192:LEU:CD1	2.24	0.66
6:AF:131:GLY:O	6:AF:133:ASN:N	2.29	0.66
8:AH:42:ARG:NE	8:AH:42:ARG:HA	2.09	0.66
8:AH:52:VAL:HG11	8:AH:69:ARG:HB3	1.77	0.66
10:AJ:12:LEU:HB3	10:AJ:13:PRO:HD3	1.76	0.66
10:AJ:115:LEU:HG	10:AJ:126:MET:HE1	1.76	0.66
13:AM:56:SER:HB3	31:Ae:13:ARG:NE	2.10	0.66
14:AN:16:ARG:NH1	14:AN:72:LYS:HA	2.11	0.66
14:AN:75:THR:OG1	14:AN:91:GLU:OE2	2.13	0.66
15:AO:103:ARG:HD2	20:AT:40:ASN:HB2	1.78	0.66
17:AQ:65:LYS:HD3	17:AQ:75:ILE:CD1	2.23	0.66
18:AR:16:LYS:HG2	18:AR:20:LEU:HD21	1.75	0.66
18:AR:70:ARG:CG	18:AR:75:ASN:HA	2.20	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:68:LYS:O	19:AS:69:LYS:CB	2.42	0.66
19:AS:78:LYS:HA	19:AS:83:ARG:O	1.96	0.66
22:AV:31:LEU:HB3	22:AV:32:PRO:HD2	1.76	0.66
22:AV:49:VAL:HB	22:AV:51:VAL:H	1.61	0.66
23:AW:39:VAL:HA	23:AW:44:PHE:CZ	2.30	0.66
23:AW:92:SER:O	23:AW:93:ASP:HB2	1.94	0.66
25:AY:35:SER:HA	25:AY:38:GLN:OE1	1.95	0.66
27:Aa:5:ILE:HD11	27:Aa:10:VAL:N	2.11	0.66
27:Aa:43:TYR:CA	27:Aa:61:ARG:NH2	2.41	0.66
28:Ab:48:GLU:N	28:Ab:58:LEU:HG	2.10	0.66
34:BA:55:A:H2'	34:BA:56:U:H5'	1.77	0.66
34:BA:380:G:H21	34:BA:382:A:H3'	1.60	0.66
34:BA:758:G:O5'	34:BA:758:G:H8	1.79	0.66
34:BA:877:C:O2'	41:BL:3:THR:HG21	1.96	0.66
34:BA:967:C:H6	34:BA:967:C:O5'	1.79	0.66
34:BA:1182:G:H4'	34:BA:1183:A:O5'	1.96	0.66
34:BA:1202:G:N2	34:BA:1203:C:H1'	2.11	0.66
34:BA:1269:A:H1'	34:BA:1313:U:C6	2.29	0.66
34:BA:1376:U:O2	34:BA:1377:A:N7	2.29	0.66
34:BA:1448:C:N3	34:BA:1459:C:O2	2.28	0.66
34:BA:1459:C:P	53:BX:31:SER:HB3	2.35	0.66
35:BF:17:PHE:CA	35:BF:42:ILE:HG22	2.25	0.66
35:BF:20:GLU:HA	35:BF:21:ARG:NH2	2.08	0.66
35:BF:91:PRO:HB3	35:BF:152:PHE:CE1	2.30	0.66
36:BG:44:GLU:HA	36:BG:52:LEU:HD11	1.78	0.66
37:BH:47:ARG:HB2	37:BH:47:ARG:CZ	2.22	0.66
40:BK:72:ARG:HH11	40:BK:72:ARG:CB	2.07	0.66
41:BL:38:ILE:C	41:BL:41:ARG:HB2	2.21	0.66
42:BM:121:ARG:HG2	42:BM:121:ARG:HH11	1.60	0.66
44:BO:62:GLN:OE1	44:BO:63:LEU:HB2	1.95	0.66
45:BP:22:SER:C	45:BP:24:VAL:H	2.04	0.66
46:BQ:29:ARG:HD3	46:BQ:64:TRP:CZ3	2.31	0.66
46:BQ:65:LYS:HA	46:BQ:66:LEU:HB3	1.78	0.66
46:BQ:81:LEU:HD13	46:BQ:81:LEU:H	1.61	0.66
46:BQ:86:CYS:HA	52:BW:74:PHE:CD2	2.31	0.66
47:BR:24:CYS:SG	47:BR:27:CYS:N	2.68	0.66
47:BR:52:GLN:O	47:BR:53:LEU:HD23	1.96	0.66
48:BS:35:ARG:CZ	48:BS:59:MET:HE2	2.25	0.66
50:BU:60:ILE:HD13	50:BU:62:SER:OG	1.95	0.66
52:BW:38:SER:HB3	52:BW:71:LEU:HG	1.78	0.66
53:BX:53:LEU:HD21	53:BX:92:LEU:HD13	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:11:ILE:CG2	55:CA:112:VAL:HG12	2.23	0.66
55:CA:21:LEU:CD1	55:CA:98:VAL:HG21	2.25	0.66
55:CA:297:LEU:HD12	55:CA:298:PRO:O	1.95	0.66
55:CA:580:VAL:CB	55:CA:585:ILE:HD13	2.26	0.66
1:AA:204:A:OP1	1:AA:206:U:O2	2.13	0.66
1:AA:572:A:H2	1:AA:2033:A:C2	2.12	0.66
1:AA:586:A:C4'	6:AF:89:VAL:HG21	2.25	0.66
1:AA:896:A:N1	1:AA:897:C:C4	2.63	0.66
1:AA:1058:G:O2'	10:AJ:116:ASN:ND2	2.21	0.66
1:AA:1075:C:N1	10:AJ:90:LYS:NZ	2.37	0.66
1:AA:1307:A:O3'	1:AA:1379:A:N6	2.29	0.66
1:AA:1942:C:H3'	1:AA:1942:C:P	2.35	0.66
1:AA:2075:U:O4	1:AA:2077:A:N7	2.29	0.66
1:AA:2075:U:C5	1:AA:2435:A:C2	2.84	0.66
1:AA:2238:G:H1'	1:AA:2240:C:C5	2.31	0.66
1:AA:2536:G:C6	1:AA:2537:U:C4	2.84	0.66
1:AA:2791:C:N4	1:AA:2893:G:O4'	2.29	0.66
4:AD:32:SER:O	4:AD:33:LEU:O	2.13	0.66
4:AD:69:ARG:NH2	4:AD:130:ALA:CB	2.59	0.66
4:AD:136:ILE:CD1	4:AD:173:VAL:HG21	2.26	0.66
4:AD:260:ARG:O	4:AD:261:LYS:C	2.38	0.66
5:AE:116:VAL:HG21	5:AE:138:PRO:CA	2.11	0.66
7:AG:19:LEU:O	7:AG:22:ARG:HG2	1.96	0.66
7:AG:139:LEU:CD1	7:AG:142:PRO:HB3	2.25	0.66
8:AH:7:LEU:CG	8:AH:51:ARG:HH11	2.04	0.66
8:AH:28:GLY:HA3	8:AH:79:VAL:O	1.95	0.66
8:AH:119:GLU:N	8:AH:121:ILE:HG22	2.10	0.66
10:AJ:17:ALA:CB	10:AJ:41:PHE:C	2.54	0.66
10:AJ:29:GLN:OE1	10:AJ:29:GLN:HA	1.94	0.66
11:AK:128:HIS:O	11:AK:131:GLN:HB2	1.95	0.66
13:AM:117:GLU:HG2	13:AM:118:GLY:N	2.10	0.66
14:AN:76:LYS:C	14:AN:76:LYS:HD2	2.21	0.66
15:AO:28:LEU:O	15:AO:29:LEU:C	2.37	0.66
15:AO:67:LEU:HD13	15:AO:67:LEU:C	2.21	0.66
17:AQ:32:TYR:O	17:AQ:47:GLY:CA	2.32	0.66
22:AV:72:VAL:C	22:AV:73:ARG:HG3	2.20	0.66
26:AZ:4:LEU:HD23	26:AZ:5:LYS:N	2.10	0.66
26:AZ:11:SER:H	26:AZ:12:PRO:CD	2.09	0.66
27:Aa:28:LYS:HB3	27:Aa:29:PRO:HD2	1.78	0.66
27:Aa:68:ARG:N	27:Aa:68:ARG:NH1	2.25	0.66
34:BA:112:G:H21	34:BA:354:G:H5'	1.60	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:329:A:O2'	34:BA:330:C:H5'	1.95	0.66
34:BA:1049:U:H6	34:BA:1049:U:O5'	1.78	0.66
34:BA:1239:A:C2	34:BA:1298:C:C5	2.83	0.66
34:BA:1266:G:H2'	34:BA:1268:A:OP2	1.96	0.66
34:BA:1278:U:H5'	34:BA:1279:A:H5'	1.78	0.66
34:BA:1366:C:O2'	34:BA:1367:C:H5'	1.96	0.66
34:BA:1443:G:C4'	34:BA:1446:A:H5'	2.19	0.66
35:BF:101:MET:HA	35:BF:108:ILE:CG1	2.25	0.66
35:BF:194:PRO:O	35:BF:196:LEU:N	2.29	0.66
37:BH:30:LYS:HG2	37:BH:35:ARG:HD2	1.78	0.66
37:BH:141:ARG:HH11	37:BH:142:PRO:HD2	1.60	0.66
39:BJ:76:ALA:CB	39:BJ:80:ARG:NH2	2.55	0.66
44:BO:21:ILE:HG22	44:BO:30:VAL:HG22	1.77	0.66
44:BO:92:GLU:O	44:BO:93:GLN:C	2.39	0.66
45:BP:27:LEU:HB2	45:BP:64:TYR:CZ	2.30	0.66
46:BQ:10:PRO:CB	46:BQ:18:ALA:HB2	2.22	0.66
50:BU:40:LYS:HZ3	50:BU:40:LYS:CB	2.09	0.66
53:BX:26:ASN:ND2	53:BX:27:LYS:N	2.44	0.66
53:BX:37:SER:O	53:BX:40:ALA:HB3	1.95	0.66
53:BX:73:HIS:O	53:BX:74:LYS:C	2.39	0.66
53:BX:88:VAL:HG12	53:BX:92:LEU:CD1	2.26	0.66
53:BX:88:VAL:HG12	53:BX:92:LEU:HD11	1.77	0.66
55:CA:15:ASP:CG	55:CA:16:HIS:NE2	2.53	0.66
55:CA:54:ILE:HD13	55:CA:54:ILE:N	2.10	0.66
55:CA:163:VAL:HG12	55:CA:172:ALA:O	1.96	0.66
55:CA:248:ASN:CG	55:CA:273:ILE:HG12	2.19	0.66
55:CA:541:LYS:N	55:CA:542:LYS:HA	2.08	0.66
1:AA:176:G:C2'	1:AA:177:G:H8	2.09	0.66
1:AA:189:G:H2'	1:AA:205:G:N2	2.11	0.66
1:AA:297:C:H3'	1:AA:298:G:C8	2.31	0.66
1:AA:408:G:H8	1:AA:408:G:O5'	1.76	0.66
1:AA:501:A:C6	1:AA:502:A:N1	2.63	0.66
1:AA:528:A:N1	1:AA:2043:C:OP2	2.29	0.66
1:AA:613:U:H5'	1:AA:614:U:C6	2.30	0.66
1:AA:729:G:N9	1:AA:730:C:H1'	2.10	0.66
1:AA:1046:A:C4	9:AI:11:ALA:HB3	2.27	0.66
1:AA:1092:C:H3'	1:AA:1092:C:C6	2.31	0.66
1:AA:1229:G:C6	1:AA:1230:C:C2	2.84	0.66
1:AA:1579:A:C8	1:AA:1580:A:N3	2.64	0.66
1:AA:1647:G:C4'	1:AA:1648:C:OP1	2.40	0.66
1:AA:1759:A:O2'	1:AA:1760:A:H5'	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1793:C:N4	1:AA:1825:A:N6	2.42	0.66
1:AA:1803:A:OP2	1:AA:1803:A:H8	1.79	0.66
1:AA:1814:G:H5''	1:AA:1815:A:OP2	1.96	0.66
1:AA:1858:G:N2	1:AA:1884:A:H1'	2.11	0.66
1:AA:1922:G:O6	56:AA:3001:NMY:N6	2.28	0.66
1:AA:2016:U:H2'	1:AA:2017:U:O4'	1.96	0.66
1:AA:2056:G:H21	28:Ab:4:HIS:HD2	1.42	0.66
1:AA:2113:U:H3	1:AA:2169:A:N6	1.93	0.66
1:AA:2115:G:N3	1:AA:2117:A:N7	2.43	0.66
1:AA:2296:U:C6	1:AA:2296:U:C3'	2.79	0.66
1:AA:2305:A:N7	1:AA:2306:C:C6	2.64	0.66
1:AA:2312:U:P	7:AG:86:MET:HG2	2.36	0.66
1:AA:2371:G:N2	1:AA:2372:G:C6	2.64	0.66
1:AA:2459:A:N3	1:AA:2460:U:O2'	2.28	0.66
1:AA:2681:C:H5	1:AA:2727:G:C2	2.14	0.66
1:AA:2780:G:N2	11:AK:97:ARG:HH22	1.94	0.66
2:AB:63:G:H2'	2:AB:64:C:C6	2.30	0.66
4:AD:17:THR:HG23	4:AD:18:VAL:HG23	1.78	0.66
5:AE:48:GLN:N	5:AE:48:GLN:NE2	2.44	0.66
5:AE:171:GLU:O	5:AE:184:VAL:HG12	1.95	0.66
7:AG:37:VAL:HG13	7:AG:159:VAL:HA	1.76	0.66
10:AJ:104:VAL:CG1	10:AJ:127:ILE:CD1	0.82	0.66
11:AK:6:PRO:HA	11:AK:41:ASP:CG	2.21	0.66
11:AK:27:ALA:CA	11:AK:30:ILE:HD12	2.16	0.66
12:AL:41:ALA:O	12:AL:56:ASP:HA	1.95	0.66
14:AN:85:LYS:HZ2	24:AX:10:THR:CG2	2.08	0.66
14:AN:93:TYR:C	14:AN:94:VAL:CG1	2.69	0.66
15:AO:33:ARG:HA	15:AO:115:GLU:CB	2.25	0.66
16:AP:49:VAL:CG1	16:AP:76:LYS:HE3	2.25	0.66
19:AS:20:LEU:O	19:AS:21:ARG:HG2	1.96	0.66
21:AU:27:THR:HG22	21:AU:80:ILE:CG2	2.26	0.66
22:AV:16:ALA:CB	22:AV:68:HIS:ND1	2.59	0.66
23:AW:4:ARG:CG	23:AW:38:TYR:O	2.44	0.66
23:AW:152:ALA:CB	23:AW:168:GLU:HA	2.22	0.66
25:AY:23:LYS:HE3	25:AY:55:LEU:HD21	1.78	0.66
29:Ac:22:ALA:HB1	29:Ac:39:TYR:HE2	1.59	0.66
29:Ac:46:HIS:ND1	29:Ac:47:THR:N	2.44	0.66
29:Ac:49:HIS:O	29:Ac:50:ARG:HB2	1.94	0.66
34:BA:38:G:N2	34:BA:397:A:C5'	2.36	0.66
34:BA:259:G:C2	34:BA:260:G:C4	2.83	0.66
34:BA:286:G:C4	34:BA:287:U:C6	2.84	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:291:C:C3'	34:BA:305:G:H22	1.99	0.66
34:BA:479:C:H2'	34:BA:480:U:C2	2.31	0.66
34:BA:696:A:N3	34:BA:697:U:O4'	2.29	0.66
34:BA:794:A:H4'	34:BA:1521:G:O2'	1.94	0.66
34:BA:878:G:H2'	34:BA:879:C:C6	2.31	0.66
34:BA:990:C:H2'	34:BA:991:U:C6	2.30	0.66
34:BA:1298:C:N4	40:BK:114:ARG:HB3	2.10	0.66
35:BF:55:PHE:HE2	35:BF:218:ALA:HA	1.60	0.66
38:BI:12:LEU:HG	38:BI:129:ILE:HG12	1.77	0.66
39:BJ:78:GLU:O	39:BJ:81:ILE:HD12	1.96	0.66
40:BK:43:PHE:HD2	40:BK:44:TYR:CE2	2.13	0.66
45:BP:85:ILE:CD1	45:BP:98:TYR:CB	2.74	0.66
46:BQ:37:THR:CA	46:BQ:56:LEU:HB2	2.25	0.66
47:BR:22:THR:O	47:BR:23:ARG:HG2	1.94	0.66
50:BU:44:ALA:HA	50:BU:71:PHE:O	1.95	0.66
51:BV:46:GLU:N	51:BV:49:LYS:HZ1	1.94	0.66
52:BW:22:LEU:HD23	52:BW:22:LEU:C	2.21	0.66
52:BW:39:THR:O	52:BW:40:ILE:O	2.14	0.66
53:BX:27:LYS:O	53:BX:28:ALA:C	2.39	0.66
55:CA:89:MET:HG2	55:CA:121:LEU:CD1	2.25	0.66
55:CA:298:PRO:HB2	55:CA:299:ALA:HB2	1.77	0.66
1:AA:58:G:H2'	1:AA:73:A:H2	1.59	0.66
1:AA:59:U:H2'	1:AA:60:G:O4'	1.95	0.66
1:AA:66:C:H2'	1:AA:67:U:C5'	2.26	0.66
1:AA:216:A:H2'	1:AA:217:G:H8	1.58	0.66
1:AA:226:G:O2'	1:AA:228:A:N1	2.29	0.66
1:AA:301:G:OP1	1:AA:301:G:H4'	1.94	0.66
1:AA:558:G:H5''	11:AK:109:LYS:HD3	1.76	0.66
1:AA:605:C:OP1	6:AF:104:LYS:HB2	1.96	0.66
1:AA:728:G:C6	1:AA:762:U:C2'	2.78	0.66
1:AA:871:U:H2'	1:AA:872:A:C8	2.31	0.66
1:AA:964:C:O2'	1:AA:2273:A:C8	2.49	0.66
1:AA:973:A:O2'	1:AA:974:G:O5'	2.14	0.66
1:AA:1174:A:N6	1:AA:1177:A:C6	2.59	0.66
1:AA:1249:U:O4	13:AM:21:ARG:CZ	2.44	0.66
1:AA:1654:A:C2	1:AA:1655:A:C8	2.84	0.66
1:AA:2051:A:C1'	5:AE:141:ILE:HD11	2.25	0.66
1:AA:2225:A:C5'	1:AA:2226:C:H6	2.08	0.66
1:AA:2286:A:H3'	1:AA:2286:A:C8	2.31	0.66
1:AA:2324:C:O2	1:AA:2385:C:H5	1.78	0.66
1:AA:2405:G:O2'	1:AA:2406:U:H5''	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2564:A:C2'	1:AA:2565:A:C8	2.72	0.66
1:AA:2652:C:O2	1:AA:2670:A:H1'	1.95	0.66
1:AA:2747:G:C4	1:AA:2756:U:O4	2.49	0.66
2:AB:30:C:C2'	2:AB:31:C:H5'	2.25	0.66
3:AC:10:LEU:HD21	3:AC:220:PRO:CD	2.25	0.66
4:AD:55:GLY:H	4:AD:218:ARG:CD	2.09	0.66
4:AD:84:TYR:CG	4:AD:91:ARG:HG3	2.31	0.66
4:AD:91:ARG:HH11	4:AD:91:ARG:N	1.94	0.66
5:AE:38:THR:HG1	5:AE:44:TYR:HB2	1.58	0.66
5:AE:172:VAL:O	5:AE:182:LEU:HD21	1.95	0.66
7:AG:103:LEU:HD21	7:AG:176:LEU:HD11	1.78	0.66
8:AH:148:ILE:HG23	8:AH:162:ILE:CD1	2.26	0.66
11:AK:23:LEU:HD23	11:AK:60:ILE:CG2	2.25	0.66
11:AK:37:LYS:HD2	11:AK:42:TRP:O	1.95	0.66
11:AK:37:LYS:HE2	11:AK:43:THR:CG2	2.26	0.66
11:AK:100:GLU:C	11:AK:103:VAL:HG13	2.21	0.66
11:AK:104:LYS:HA	11:AK:117:PHE:CE1	2.31	0.66
12:AL:13:ASN:OD1	12:AL:52:VAL:HG12	1.96	0.66
12:AL:18:LYS:HZ1	12:AL:44:LYS:HZ2	1.44	0.66
13:AM:45:LEU:CD1	31:Ae:59:LYS:HZ1	2.08	0.66
13:AM:49:ARG:C	13:AM:52:GLU:HG2	2.21	0.66
13:AM:88:LEU:HD11	13:AM:124:LYS:NZ	2.11	0.66
13:AM:122:PRO:HB2	13:AM:138:LEU:CB	2.25	0.66
14:AN:101:ARG:HH11	14:AN:101:ARG:CG	2.08	0.66
15:AO:46:GLY:O	15:AO:49:ASP:CB	2.40	0.66
16:AP:94:TYR:N	16:AP:94:TYR:CD1	2.64	0.66
17:AQ:82:LEU:O	17:AQ:85:LYS:NZ	2.28	0.66
18:AR:99:ALA:HA	18:AR:106:PHE:CB	2.26	0.66
20:AT:51:LEU:O	20:AT:54:ALA:HB3	1.95	0.66
23:AW:57:ILE:HD11	23:AW:70:LEU:HG	1.78	0.66
26:AZ:6:VAL:HG21	26:AZ:35:ARG:NH1	2.11	0.66
27:Aa:8:LYS:CG	27:Aa:9:LEU:H	2.09	0.66
30:Ad:32:LYS:N	30:Ad:35:ARG:HD3	2.11	0.66
32:Af:2:LYS:HE2	32:Af:35:ARG:HD3	1.78	0.66
34:BA:435:C:H2'	34:BA:436:C:O4'	1.94	0.66
34:BA:735:C:H2'	34:BA:736:C:C6	2.26	0.66
34:BA:795:C:O5'	34:BA:795:C:H6	1.77	0.66
34:BA:945:G:H1'	34:BA:1337:G:O2'	1.96	0.66
34:BA:994:A:C8	34:BA:1216:G:H4'	2.31	0.66
34:BA:1040:U:H2'	34:BA:1041:A:C8	2.31	0.66
34:BA:1049:U:H1'	34:BA:1201:A:C8	2.30	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1085:U:H5'	34:BA:1094:G:H21	1.58	0.66
34:BA:1219:U:P	47:BR:19:ARG:HH22	2.19	0.66
34:BA:1240:U:OP2	40:BK:116:ALA:N	2.29	0.66
34:BA:1263:C:C2	34:BA:1264:C:C5	2.84	0.66
34:BA:1413:A:C5	34:BA:1488:G:C2	2.62	0.66
34:BA:1430:C:O2'	34:BA:1431:C:O5'	2.14	0.66
36:BG:187:ALA:HB3	36:BG:198:VAL:CG2	2.26	0.66
37:BH:54:TYR:O	37:BH:55:ALA:C	2.39	0.66
37:BH:57:ARG:HH22	38:BI:107:ARG:HD3	1.60	0.66
38:BI:26:PHE:N	38:BI:26:PHE:CD1	2.60	0.66
38:BI:127:ASN:O	38:BI:128:PRO:C	2.39	0.66
39:BJ:23:LYS:CA	39:BJ:26:ILE:HD12	2.26	0.66
41:BL:70:GLN:HB2	41:BL:73:ASP:O	1.95	0.66
43:BN:9:ARG:C	43:BN:94:VAL:HG13	2.21	0.66
43:BN:27:ALA:HB2	43:BN:85:LEU:CD1	2.26	0.66
43:BN:50:ILE:HB	47:BR:41:ARG:HE	1.58	0.66
45:BP:101:VAL:HG23	45:BP:104:VAL:CG2	2.25	0.66
49:BT:82:GLN:O	49:BT:82:GLN:HG3	1.94	0.66
50:BU:62:SER:CB	50:BU:72:ARG:HG2	2.26	0.66
55:CA:176:HIS:HA	55:CA:177:GLU:HG3	1.78	0.66
55:CA:205:PHE:HZ	55:CA:226:ILE:HD11	1.61	0.66
55:CA:207:MET:CE	55:CA:224:GLY:C	2.57	0.66
1:AA:27:G:N1	1:AA:512:G:C2'	2.56	0.65
1:AA:460:A:H3'	1:AA:461:C:C6	2.31	0.65
1:AA:531:C:H5'	1:AA:532:A:N3	2.10	0.65
1:AA:604:G:H21	1:AA:658:C:H5'	1.62	0.65
1:AA:641:C:N4	1:AA:646:A:H61	1.95	0.65
1:AA:835:A:C4'	1:AA:2358:G:H1'	2.25	0.65
1:AA:1037:G:O6	1:AA:1119:C:C4	2.48	0.65
1:AA:1059:G:C3'	10:AJ:74:ALA:H	2.08	0.65
1:AA:1068:G:N3	1:AA:1096:A:OP1	2.30	0.65
1:AA:1359:A:N6	1:AA:1360:A:N7	2.44	0.65
1:AA:1902:C:C5	1:AA:1903:G:C8	2.81	0.65
1:AA:2246:G:N3	1:AA:2247:A:N7	2.44	0.65
1:AA:2471:C:C4'	55:CA:529:ARG:HH21	2.07	0.65
3:AC:51:PRO:HB3	3:AC:165:ASN:ND2	2.08	0.65
3:AC:120:MET:HG3	3:AC:145:VAL:HG13	1.77	0.65
4:AD:52:ARG:O	4:AD:53:PHE:O	2.15	0.65
4:AD:80:ALA:HB2	4:AD:96:HIS:ND1	2.11	0.65
4:AD:172:TYR:HB3	4:AD:184:LYS:CG	2.26	0.65
5:AE:112:GLY:O	5:AE:159:HIS:HA	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:132:HIS:O	5:AE:133:LYS:HB2	1.95	0.65
5:AE:173:VAL:HG11	5:AE:184:VAL:HA	1.77	0.65
6:AF:110:LEU:HD23	6:AF:186:ILE:HD11	1.76	0.65
6:AF:125:LEU:O	6:AF:126:VAL:HG12	1.96	0.65
6:AF:137:LYS:O	6:AF:140:LEU:HB3	1.95	0.65
7:AG:9:ARG:HG2	7:AG:13:GLU:OE1	1.95	0.65
9:AI:51:LEU:CB	9:AI:90:ALA:HB2	2.25	0.65
11:AK:4:TYR:HB2	18:AR:64:ARG:NH1	2.03	0.65
12:AL:15:GLY:CA	12:AL:47:ILE:HB	2.26	0.65
14:AN:86:GLY:O	14:AN:87:LYS:HB3	1.94	0.65
15:AO:22:ARG:HG2	15:AO:70:LEU:HD22	1.78	0.65
15:AO:37:THR:O	15:AO:40:LYS:HB2	1.95	0.65
16:AP:57:LYS:HZ3	16:AP:62:LYS:HG3	1.61	0.65
20:AT:6:ILE:HG12	20:AT:103:ILE:O	1.96	0.65
20:AT:35:ILE:HG13	28:Ab:28:PRO:CG	2.24	0.65
21:AU:7:VAL:CG2	25:AY:28:MET:HG2	2.25	0.65
21:AU:50:LYS:HG3	21:AU:85:PRO:CD	2.26	0.65
23:AW:100:VAL:CG2	23:AW:137:ILE:HD12	2.20	0.65
26:AZ:23:LEU:CA	26:AZ:28:LEU:HD12	2.25	0.65
27:Aa:41:PRO:HD2	27:Aa:57:GLU:OE1	1.96	0.65
31:Ae:60:LEU:HD23	31:Ae:60:LEU:C	2.20	0.65
32:Af:23:VAL:O	32:Af:36:GLN:HG2	1.96	0.65
34:BA:191(D):U:H2'	34:BA:191(E):G:H8	1.59	0.65
34:BA:277:C:H5''	50:BU:68:ARG:NH1	2.11	0.65
34:BA:359:U:H5'	55:CA:216:SER:CA	2.25	0.65
34:BA:428:G:C2	34:BA:430:A:N6	2.64	0.65
34:BA:556:C:O2'	34:BA:557:G:H5'	1.96	0.65
34:BA:582:U:OP1	48:BS:68:ARG:NH1	2.28	0.65
34:BA:686:U:O2'	34:BA:687:A:OP1	2.14	0.65
34:BA:759:A:N6	34:BA:760:G:N3	2.44	0.65
34:BA:833:U:HO2'	34:BA:834:C:H6	1.44	0.65
34:BA:983:A:H1'	34:BA:1201:A:C8	2.31	0.65
34:BA:992:U:O2'	34:BA:993:G:OP2	2.11	0.65
34:BA:1097:C:H2'	34:BA:1098:C:H6	1.60	0.65
34:BA:1181:G:C2'	34:BA:1182:G:H5'	2.26	0.65
34:BA:1454:G:O6	34:BA:1455:G:O6	2.14	0.65
35:BF:96:ARG:HD2	35:BF:96:ARG:N	2.11	0.65
36:BG:28:GLN:N	36:BG:30:ARG:NE	2.44	0.65
37:BH:117:ALA:O	37:BH:121:VAL:HG23	1.95	0.65
38:BI:41:VAL:HG11	38:BI:112:LEU:HB3	1.77	0.65
41:BL:64:LYS:CG	41:BL:79:VAL:HG21	2.19	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:53:VAL:HG11	42:BM:92:TYR:OH	1.96	0.65
44:BO:122:LYS:O	44:BO:126:ARG:HG3	1.96	0.65
44:BO:126:ARG:HB3	44:BO:126:ARG:HH11	1.60	0.65
45:BP:42:THR:OG1	45:BP:52:LEU:HD12	1.96	0.65
55:CA:8:ILE:HG23	55:CA:72:ILE:CD1	2.23	0.65
55:CA:20:THR:O	55:CA:24:LYS:HG2	1.96	0.65
55:CA:58:ALA:HA	55:CA:255:LEU:CD2	2.23	0.65
55:CA:117:PHE:CZ	55:CA:148:PHE:CE2	2.82	0.65
55:CA:226:ILE:CB	55:CA:267:LEU:HA	2.25	0.65
55:CA:481:GLY:HA2	55:CA:482:GLN:HB2	1.77	0.65
55:CA:491:ASN:HD22	55:CA:536:ASN:HB2	1.50	0.65
1:AA:80:G:O4'	1:AA:347:A:N6	2.28	0.65
1:AA:126:A:P	30:Ad:17:GLY:HA3	2.37	0.65
1:AA:407:G:H2'	1:AA:408:G:C8	2.31	0.65
1:AA:446:G:C8	1:AA:446:G:OP2	2.50	0.65
1:AA:450:G:H5'	6:AF:52:LYS:CD	2.23	0.65
1:AA:558:G:H2'	1:AA:559:G:H5'	1.78	0.65
1:AA:855:G:H21	24:AX:27:GLU:HB3	1.61	0.65
1:AA:1024:G:C5	1:AA:1025:G:H8	2.12	0.65
1:AA:1036:G:N2	1:AA:1120:G:C4	2.64	0.65
1:AA:1044:G:C2	1:AA:1046:A:N7	2.64	0.65
1:AA:1308:A:N3	1:AA:1309:G:H1'	2.11	0.65
1:AA:1492:G:N3	1:AA:1493:C:N4	2.44	0.65
1:AA:1529:A:H3'	1:AA:1530:G:H8	1.62	0.65
1:AA:1554:A:HO2'	1:AA:1555:G:P	2.19	0.65
1:AA:1806:C:C4	1:AA:1807:G:N7	2.64	0.65
1:AA:1934:C:N3	1:AA:1967:C:N4	2.44	0.65
1:AA:2091:U:H2'	1:AA:2092:U:C5'	2.24	0.65
1:AA:2437:U:H2'	1:AA:2438:U:C6	2.30	0.65
1:AA:2599:G:O2'	1:AA:2600:A:H5'	1.96	0.65
4:AD:200:ASP:O	4:AD:203:ASN:N	2.29	0.65
5:AE:186:GLY:C	5:AE:188:VAL:H	2.04	0.65
7:AG:1:MET:C	7:AG:3:LEU:N	2.53	0.65
7:AG:177:GLY:O	7:AG:178:PHE:HB3	1.96	0.65
8:AH:167:GLU:O	8:AH:169:VAL:N	2.29	0.65
10:AJ:17:ALA:HB3	10:AJ:38:VAL:O	1.91	0.65
10:AJ:51:ALA:C	10:AJ:72:PRO:HB2	2.20	0.65
10:AJ:58:THR:O	10:AJ:59:ILE:HG23	1.96	0.65
10:AJ:112:MET:HG2	10:AJ:122:ALA:CB	2.19	0.65
11:AK:23:LEU:HD12	11:AK:63:THR:H	1.60	0.65
11:AK:100:GLU:CA	11:AK:103:VAL:HG13	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:103:ALA:HB1	12:AL:107:ARG:CD	2.26	0.65
13:AM:45:LEU:HD22	31:Ae:59:LYS:CG	2.26	0.65
17:AQ:50:ILE:HB	17:AQ:66:VAL:HB	0.84	0.65
17:AQ:53:ARG:HH21	17:AQ:102:ILE:HD13	1.61	0.65
18:AR:89:GLU:HB3	19:AS:52:VAL:H	1.55	0.65
20:AT:59:VAL:HG21	20:AT:66:GLU:HB2	1.77	0.65
21:AU:29:TRP:CG	21:AU:76:ARG:HH21	2.14	0.65
21:AU:31:HIS:O	21:AU:33:LYS:N	2.30	0.65
23:AW:53:ILE:O	23:AW:54:HIS:CG	2.50	0.65
26:AZ:4:LEU:HD21	26:AZ:56:VAL:CG2	2.24	0.65
26:AZ:6:VAL:HG13	26:AZ:56:VAL:HA	1.77	0.65
29:Ac:46:HIS:CG	29:Ac:47:THR:N	2.63	0.65
34:BA:59:A:H1'	34:BA:354:G:N2	2.11	0.65
34:BA:87:A:H2'	34:BA:88:C:O4'	1.96	0.65
34:BA:109:A:H4'	34:BA:110:C:OP2	1.95	0.65
34:BA:189:U:N3	50:BU:72:ARG:NH2	2.44	0.65
34:BA:520:A:OP2	45:BP:51:ALA:HB1	1.96	0.65
34:BA:522:C:H41	34:BA:523:A:N6	1.94	0.65
34:BA:529:G:C6	45:BP:49:ASN:CG	2.74	0.65
34:BA:533:A:C5	34:BA:536:C:N4	2.65	0.65
34:BA:568:G:N2	34:BA:574:A:C2	2.62	0.65
34:BA:714:G:H2'	34:BA:715:A:C8	2.31	0.65
34:BA:781:A:HO2'	34:BA:782:A:P	2.19	0.65
34:BA:1069:C:H1'	34:BA:1191:A:H2	1.60	0.65
34:BA:1299:A:N7	34:BA:1301:U:C6	2.64	0.65
34:BA:1448:C:O5'	34:BA:1448:C:H6	1.79	0.65
35:BF:185:ILE:CG2	35:BF:199:TYR:HB2	2.26	0.65
36:BG:55:VAL:HG13	36:BG:68:VAL:HG22	1.77	0.65
38:BI:31:LEU:HD12	38:BI:129:ILE:HA	1.77	0.65
38:BI:135:THR:C	38:BI:139:LEU:HD12	2.22	0.65
39:BJ:64:GLN:C	39:BJ:65:VAL:CG1	2.70	0.65
40:BK:5:ARG:HD2	40:BK:5:ARG:C	2.20	0.65
43:BN:7:LYS:HG3	43:BN:71:LEU:HD11	1.78	0.65
43:BN:11:PHE:HZ	43:BN:65:LEU:HG	1.62	0.65
43:BN:89:ASP:O	43:BN:90:LEU:HG	1.95	0.65
44:BO:39:PRO:C	44:BO:40:ILE:HD13	2.21	0.65
44:BO:84:VAL:HB	51:BV:88:LYS:HZ3	1.61	0.65
45:BP:35:GLY:O	45:BP:82:VAL:HA	1.96	0.65
47:BR:22:THR:CG2	47:BR:33:VAL:HG23	2.26	0.65
49:BT:26:ARG:O	49:BT:27:LYS:O	2.13	0.65
55:CA:13:HIS:HB3	55:CA:109:THR:HG23	1.76	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:24:LYS:HG3	55:CA:25:LEU:N	2.11	0.65
55:CA:35:ARG:HA	55:CA:36:ALA:HB3	1.79	0.65
55:CA:57:LEU:O	55:CA:58:ALA:O	2.13	0.65
55:CA:248:ASN:OD1	55:CA:276:ILE:CG1	2.45	0.65
55:CA:419:LEU:O	55:CA:424:GLY:N	2.29	0.65
55:CA:580:VAL:CG1	55:CA:585:ILE:HD12	2.26	0.65
1:AA:270(J):G:C6	1:AA:270(K):C:N3	2.64	0.65
1:AA:295:G:H3'	1:AA:338:G:H1	1.59	0.65
1:AA:530:G:H1	1:AA:2022:U:P	2.17	0.65
1:AA:728:G:O2'	1:AA:729:G:H8	1.76	0.65
1:AA:784:A:OP1	1:AA:2588:G:C5'	2.44	0.65
1:AA:892:G:C4	1:AA:893:C:C4	2.85	0.65
1:AA:896:A:N1	1:AA:897:C:N3	2.44	0.65
1:AA:917:A:N6	1:AA:918:A:C6	2.64	0.65
1:AA:1077:A:N6	1:AA:1088:A:HO2'	1.94	0.65
1:AA:1092:C:H3'	1:AA:1092:C:H6	1.59	0.65
1:AA:1105:U:C4	1:AA:1107:G:N1	2.63	0.65
1:AA:1289:C:H4'	1:AA:1330:C:H4'	1.77	0.65
1:AA:1312:U:H3	1:AA:1604:C:H41	1.44	0.65
1:AA:1472:A:C1'	1:AA:1473:G:N7	2.58	0.65
1:AA:2049:G:N2	1:AA:2620:C:C2	2.63	0.65
1:AA:2124:G:H21	3:AC:217:THR:C	2.03	0.65
1:AA:2396:G:C6	1:AA:2421:G:O6	2.50	0.65
1:AA:2459:A:C4	1:AA:2460:U:H1'	2.27	0.65
1:AA:2569:G:N3	1:AA:2570:G:C8	2.65	0.65
1:AA:2602:A:C8	24:AX:2:ALA:HB2	2.30	0.65
3:AC:89:ALA:HB1	3:AC:154:ARG:CB	2.26	0.65
6:AF:155:LEU:CG	6:AF:189:THR:HG21	2.24	0.65
7:AG:75:LYS:HB3	7:AG:84:LYS:CB	2.27	0.65
8:AH:103:LEU:HB3	8:AH:105:LEU:CD1	2.26	0.65
10:AJ:122:ALA:HA	10:AJ:126:MET:CB	2.24	0.65
11:AK:39:ARG:HD3	11:AK:48:MET:HG2	1.78	0.65
12:AL:24:VAL:CA	12:AL:39:ILE:HG22	2.24	0.65
12:AL:84:ALA:CB	12:AL:114:ILE:HD11	2.26	0.65
12:AL:108:GLU:HB3	12:AL:111:PHE:HE2	1.61	0.65
13:AM:64:LYS:HD2	13:AM:64:LYS:O	1.97	0.65
13:AM:81:GLN:HG2	13:AM:86:LYS:CE	2.27	0.65
13:AM:126:VAL:HA	13:AM:145:PRO:HA	1.78	0.65
15:AO:108:GLY:O	15:AO:110:PRO:HD3	1.97	0.65
17:AQ:93:ARG:N	17:AQ:93:ARG:NE	2.43	0.65
18:AR:84:LYS:HE2	18:AR:84:LYS:HA	1.77	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:6:ILE:CD1	20:AT:104:THR:HA	2.27	0.65
25:AY:38:GLN:O	25:AY:41:GLN:HB2	1.97	0.65
27:Aa:41:PRO:CB	27:Aa:58:ARG:HD2	2.26	0.65
31:Ae:23:VAL:HG23	31:Ae:48:PHE:HB2	1.78	0.65
34:BA:50:A:C2	34:BA:360:A:N3	2.65	0.65
34:BA:51:A:O2'	34:BA:52:G:OP2	2.12	0.65
34:BA:173:U:H5''	34:BA:197:A:O2'	1.96	0.65
34:BA:263:A:C8	34:BA:263:A:O5'	2.49	0.65
34:BA:454:C:H3'	34:BA:455:C:C6	2.32	0.65
34:BA:486:U:C2'	34:BA:487:A:O5'	2.44	0.65
34:BA:570:G:H5'	34:BA:820:U:C1'	2.19	0.65
34:BA:701:C:H5''	34:BA:702:A:H3'	1.79	0.65
34:BA:948:C:OP1	46:BQ:109:THR:CB	2.44	0.65
34:BA:1317:C:C5	34:BA:1318:A:C6	2.85	0.65
34:BA:1329:A:O2'	46:BQ:70:LEU:CG	2.45	0.65
34:BA:1405:G:H2'	34:BA:1406:U:C6	2.31	0.65
34:BA:1454:G:H2'	34:BA:1455:G:H8	0.92	0.65
34:BA:1466:C:H3'	34:BA:1467:G:H8	1.59	0.65
35:BF:163:PHE:CD2	35:BF:164:VAL:N	2.64	0.65
37:BH:4:TYR:O	37:BH:5:ILE:HG23	1.96	0.65
38:BI:17:ALA:HA	38:BI:26:PHE:HD2	1.61	0.65
38:BI:133:TYR:CD2	38:BI:136:MET:HG3	2.32	0.65
38:BI:149:GLU:HA	38:BI:152:ARG:HB3	1.77	0.65
40:BK:95:ARG:O	40:BK:96:GLN:C	2.39	0.65
42:BM:23:ASN:ND2	42:BM:57:GLY:O	2.29	0.65
42:BM:26:VAL:HG13	42:BM:63:ILE:CD1	2.26	0.65
48:BS:6:GLU:O	48:BS:7:GLU:C	2.39	0.65
49:BT:20:VAL:C	49:BT:36:ILE:HD11	2.21	0.65
50:BU:65:ILE:HG23	50:BU:69:LYS:O	1.96	0.65
52:BW:3:ARG:HE	52:BW:45:VAL:HG11	1.61	0.65
52:BW:24:ALA:C	52:BW:26:GLY:H	2.04	0.65
53:BX:26:ASN:HD22	53:BX:27:LYS:N	1.95	0.65
53:BX:87:LYS:O	53:BX:88:VAL:C	2.36	0.65
54:BY:9:ARG:HD2	54:BY:9:ARG:H	1.61	0.65
55:CA:35:ARG:CA	55:CA:36:ALA:HB3	2.27	0.65
55:CA:246:THR:C	55:CA:247:ARG:HG3	2.22	0.65
55:CA:318:PHE:CD2	55:CA:519:TYR:CD1	2.75	0.65
55:CA:351:GLU:HG2	55:CA:352:ASP:H	1.61	0.65
1:AA:60:G:O6	1:AA:88:G:O6	2.15	0.65
1:AA:71:A:H62	1:AA:114:U:H1'	1.60	0.65
1:AA:221:A:H3'	1:AA:221:A:H8	1.62	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:226:G:C2	1:AA:227:A:C2	2.84	0.65
1:AA:247:G:HO2'	1:AA:386:G:H1	1.43	0.65
1:AA:411:G:N3	1:AA:2408:U:O4	2.28	0.65
1:AA:733:G:C8	1:AA:761:A:N6	2.64	0.65
1:AA:878:A:C4	1:AA:879:G:C8	2.84	0.65
1:AA:888:C:O2'	1:AA:889:C:OP2	2.13	0.65
1:AA:1296:G:H2'	1:AA:1297:C:H6	1.62	0.65
1:AA:1341:U:H2'	21:AU:55:ASN:HB3	1.79	0.65
1:AA:1363:C:H41	27:Aa:2:LYS:HE2	1.59	0.65
1:AA:1482:U:O2'	1:AA:1512:G:N2	2.30	0.65
1:AA:1789:A:O4'	4:AD:222:ARG:NH2	2.29	0.65
1:AA:1935:G:H22	1:AA:1962:C:C2'	2.10	0.65
1:AA:2004:G:N7	1:AA:2005:A:N7	2.43	0.65
1:AA:2049:G:C2	1:AA:2620:C:C2	2.84	0.65
1:AA:2051:A:C2	1:AA:2052:G:N7	2.65	0.65
1:AA:2072:G:H2'	1:AA:2073:C:H6	1.61	0.65
1:AA:2587:A:O2'	1:AA:2588:G:H5'	1.96	0.65
1:AA:2653:U:C4	1:AA:2669:G:C2	2.83	0.65
1:AA:2661:G:H8	1:AA:2661:G:O5'	1.80	0.65
2:AB:16:G:H2'	2:AB:17:C:C6	2.30	0.65
3:AC:62:VAL:HG22	3:AC:63:SER:N	2.11	0.65
3:AC:183:GLU:CD	3:AC:183:GLU:N	2.53	0.65
4:AD:177:LEU:O	4:AD:178:PRO:C	2.38	0.65
6:AF:66:PRO:C	6:AF:68:LYS:N	2.38	0.65
6:AF:132:VAL:CG2	6:AF:135:LYS:HB2	2.27	0.65
7:AG:72:ARG:C	7:AG:88:ILE:HD11	2.21	0.65
8:AH:87:LEU:O	8:AH:131:VAL:O	2.13	0.65
10:AJ:90:LYS:HE2	10:AJ:90:LYS:H	1.62	0.65
11:AK:91:LEU:O	11:AK:92:ALA:C	2.39	0.65
12:AL:18:LYS:HZ1	12:AL:44:LYS:NZ	1.93	0.65
12:AL:62:VAL:O	12:AL:63:VAL:CG2	2.39	0.65
17:AQ:21:GLU:O	17:AQ:23:ARG:N	2.30	0.65
17:AQ:76:PHE:CZ	17:AQ:78:LEU:HD12	2.31	0.65
18:AR:47:TYR:CZ	19:AS:76:LYS:C	2.74	0.65
18:AR:50:ARG:NH2	19:AS:75:PHE:CD2	2.59	0.65
18:AR:105:VAL:CG1	18:AR:106:PHE:N	2.60	0.65
19:AS:66:ARG:NE	19:AS:95:LEU:HD12	2.11	0.65
21:AU:65:ARG:HA	21:AU:70:LEU:HD12	1.78	0.65
22:AV:14:LEU:HD12	22:AV:14:LEU:N	2.11	0.65
23:AW:74:VAL:HG22	23:AW:86:VAL:HA	1.78	0.65
23:AW:94:GLU:HG2	23:AW:94:GLU:O	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:127:LYS:HZ3	23:AW:165:VAL:HB	1.61	0.65
24:AX:12:ASN:HA	24:AX:14:ARG:NE	2.12	0.65
25:AY:27:LEU:HD13	25:AY:52:ILE:CD1	2.26	0.65
31:Ae:22:VAL:N	31:Ae:48:PHE:CE2	2.59	0.65
31:Ae:54:GLU:C	31:Ae:56:GLU:OE1	2.39	0.65
34:BA:67:C:O4'	34:BA:172:A:H1'	1.95	0.65
34:BA:366:C:H4'	34:BA:367:U:OP1	1.94	0.65
34:BA:494:U:H2'	34:BA:494:U:O2	1.96	0.65
34:BA:601:C:H2'	34:BA:602:A:C8	2.31	0.65
34:BA:647:C:N3	34:BA:648:A:N7	2.44	0.65
34:BA:656:C:C2'	34:BA:657:G:H5'	2.27	0.65
34:BA:767:A:N6	34:BA:768:A:C6	2.64	0.65
34:BA:1227:A:H4'	46:BQ:115:LYS:NZ	2.11	0.65
35:BF:97:TRP:HH2	35:BF:176:GLU:CG	2.09	0.65
36:BG:5:ILE:HG23	43:BN:51:ARG:HH12	1.61	0.65
36:BG:39:ILE:HG22	36:BG:40:ARG:N	2.11	0.65
36:BG:94:LEU:O	36:BG:95:THR:HG23	1.96	0.65
36:BG:187:ALA:HB3	36:BG:198:VAL:HG22	1.76	0.65
37:BH:141:ARG:HD3	37:BH:142:PRO:CD	2.23	0.65
38:BI:105:VAL:HG12	38:BI:106:PRO:N	2.09	0.65
39:BJ:46:ARG:NH2	51:BV:37:VAL:CG1	2.59	0.65
43:BN:24:VAL:CG2	43:BN:72:VAL:HG13	2.25	0.65
44:BO:44:SER:H	44:BO:47:VAL:HB	1.62	0.65
44:BO:100:ALA:C	44:BO:102:GLY:H	2.02	0.65
45:BP:25:PRO:O	45:BP:27:LEU:N	2.30	0.65
45:BP:48:PRO:CG	45:BP:49:ASN:H	2.10	0.65
45:BP:60:LEU:CD1	45:BP:64:TYR:HB3	2.26	0.65
48:BS:5:LYS:HB2	48:BS:5:LYS:HZ2	1.62	0.65
52:BW:30:LEU:HA	52:BW:49:ILE:CA	2.26	0.65
53:BX:61:SER:OG	53:BX:62:LEU:N	2.28	0.65
55:CA:27:GLN:CG	55:CA:28:GLN:HE21	2.04	0.65
55:CA:150:ASN:HD22	55:CA:151:LEU:HD22	1.60	0.65
55:CA:342:ASN:CG	55:CA:345:LEU:HB2	2.22	0.65
55:CA:351:GLU:HG2	55:CA:352:ASP:N	2.12	0.65
1:AA:172:C:C5	1:AA:173:G:C5	2.84	0.65
1:AA:296:C:C6	1:AA:338:G:N2	2.64	0.65
1:AA:308:G:N2	1:AA:329:G:H2'	2.12	0.65
1:AA:439:G:H2'	1:AA:440:G:C8	2.30	0.65
1:AA:775:G:H21	1:AA:787:U:C2'	2.07	0.65
1:AA:843:G:N2	1:AA:936:C:C2	2.65	0.65
1:AA:970:C:C2	1:AA:971:C:C5	2.85	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1025:G:H1'	1:AA:1134:G:O4'	1.95	0.65
1:AA:1450:C:HO2'	1:AA:1451:C:H4'	1.59	0.65
1:AA:1475:G:H1	1:AA:1477:A:H62	1.20	0.65
1:AA:1518:C:H2'	1:AA:1519:G:H4'	1.79	0.65
1:AA:1670:C:OP1	1:AA:1671:U:OP2	2.13	0.65
1:AA:2059:A:C2	1:AA:2503:A:N7	2.65	0.65
1:AA:2098:U:H2'	1:AA:2099:U:H6	1.61	0.65
1:AA:2115:G:O2'	1:AA:2117:A:N6	2.27	0.65
1:AA:2134:A:C2'	1:AA:2135:A:O5'	2.45	0.65
1:AA:2216:G:H21	4:AD:150:LYS:HZ3	1.45	0.65
1:AA:2507:C:C4'	1:AA:2573:C:H41	2.09	0.65
1:AA:2546:U:C4'	1:AA:2565:A:C2	2.80	0.65
1:AA:2631:G:H4'	1:AA:2892:A:O5'	1.96	0.65
1:AA:2660:A:C8	1:AA:2661:G:C5	2.84	0.65
1:AA:2779:U:C5'	1:AA:2780:G:H3'	2.27	0.65
1:AA:2850:A:N3	1:AA:2869:G:H4'	2.12	0.65
2:AB:14:U:H6	2:AB:14:U:H3'	1.60	0.65
2:AB:75:G:H21	23:AW:27:VAL:CG2	2.10	0.65
2:AB:82:G:N3	2:AB:83:G:C8	2.63	0.65
4:AD:51:VAL:HB	4:AD:52:ARG:NH2	2.09	0.65
5:AE:92:THR:HG22	5:AE:92:THR:O	1.94	0.65
6:AF:81:PRO:O	6:AF:83:PHE:N	2.26	0.65
6:AF:132:VAL:H	6:AF:138:GLU:CD	2.03	0.65
7:AG:68:PRO:HG3	7:AG:72:ARG:NH2	2.11	0.65
8:AH:66:GLY:O	8:AH:70:THR:HG23	1.96	0.65
10:AJ:35:MET:HG3	10:AJ:36:GLU:H	1.61	0.65
10:AJ:51:ALA:C	10:AJ:72:PRO:CB	2.69	0.65
10:AJ:76:TYR:HD1	10:AJ:80:LYS:HD2	1.61	0.65
10:AJ:77:LEU:HD13	10:AJ:77:LEU:O	1.97	0.65
10:AJ:104:VAL:HG11	10:AJ:127:ILE:HD13	1.05	0.65
11:AK:6:PRO:CA	11:AK:41:ASP:HB3	2.27	0.65
12:AL:28:SER:O	12:AL:29:ASN:HB2	1.96	0.65
13:AM:52:GLU:HG3	31:Ae:52:LYS:HD3	1.76	0.65
14:AN:75:THR:HG22	14:AN:77:LYS:CD	2.25	0.65
15:AO:75:LEU:O	15:AO:78:LYS:N	2.30	0.65
17:AQ:50:ILE:HD12	17:AQ:66:VAL:CG2	2.27	0.65
17:AQ:63:VAL:O	17:AQ:63:VAL:CG1	2.44	0.65
17:AQ:109:GLU:HB2	17:AQ:114:LEU:HD21	1.79	0.65
19:AS:31:ALA:O	19:AS:33:VAL:HG23	1.95	0.65
20:AT:1:MET:H2	20:AT:4:LYS:HD3	1.60	0.65
20:AT:30:GLU:O	20:AT:33:ARG:HB3	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:6:HIS:HD2	22:AV:67:LEU:HD11	1.60	0.65
23:AW:24:LEU:HD13	23:AW:83:PRO:HG2	1.78	0.65
23:AW:96:VAL:HG13	23:AW:128:VAL:CG2	2.25	0.65
26:AZ:4:LEU:O	26:AZ:37:LEU:CB	2.43	0.65
30:Ad:42:LEU:O	30:Ad:45:ALA:CB	2.44	0.65
31:Ae:26:LYS:HD2	31:Ae:43:GLN:C	2.21	0.65
31:Ae:30:ARG:NH2	31:Ae:43:GLN:N	2.44	0.65
34:BA:103:C:H1'	34:BA:151:A:C2	2.32	0.65
34:BA:191:G:O2'	53:BX:102:GLY:HA2	1.97	0.65
34:BA:267:C:N4	34:BA:268:C:N4	2.44	0.65
34:BA:344:A:O2'	34:BA:345:C:P	2.54	0.65
34:BA:409:G:H5'	37:BH:24:GLU:HB3	1.79	0.65
34:BA:520:A:H8	34:BA:521:G:H5''	1.62	0.65
34:BA:543:C:P	37:BH:10:ARG:HH22	2.19	0.65
34:BA:564:C:OP1	45:BP:15:ARG:NH2	2.29	0.65
34:BA:576:G:C8	34:BA:881:G:H1'	2.31	0.65
34:BA:827:U:H5'	41:BL:16:ALA:HA	1.78	0.65
34:BA:858:G:N2	34:BA:869:G:C3'	2.55	0.65
34:BA:943:U:H2'	34:BA:944:G:C8	2.31	0.65
34:BA:976:G:C6	34:BA:1362:C:C4	2.84	0.65
34:BA:1113:C:O5'	34:BA:1113:C:H6	1.78	0.65
34:BA:1226:C:N4	46:BQ:104:ARG:NE	2.44	0.65
34:BA:1358:U:OP2	34:BA:1359:C:C5	2.49	0.65
35:BF:102:LEU:H	35:BF:102:LEU:HD13	1.58	0.65
36:BG:193:TYR:HB2	36:BG:196:LEU:HD22	1.78	0.65
37:BH:93:PHE:CA	37:BH:96:LEU:HD12	2.21	0.65
40:BK:6:ARG:CZ	40:BK:6:ARG:N	2.60	0.65
41:BL:40:ALA:N	41:BL:45:ILE:HG23	2.10	0.65
48:BS:3:ILE:HD12	48:BS:3:ILE:H	1.62	0.65
50:BU:41:LYS:HG2	50:BU:42:TYR:N	2.11	0.65
52:BW:9:VAL:CG2	52:BW:42:PRO:CA	2.67	0.65
52:BW:18:LYS:HA	52:BW:18:LYS:CE	2.16	0.65
55:CA:163:VAL:CA	55:CA:173:GLY:H	2.09	0.65
1:AA:227:A:N6	1:AA:2407:G:C8	2.65	0.65
1:AA:330:A:O2'	1:AA:1210:A:N6	2.30	0.65
1:AA:475:U:C6	1:AA:509:C:N4	2.65	0.65
1:AA:544:C:H2'	1:AA:545:G:O4'	1.97	0.65
1:AA:603:A:N6	13:AM:104:GLY:HA2	2.11	0.65
1:AA:650:C:N3	1:AA:651:G:C2	2.65	0.65
1:AA:780:G:H2'	1:AA:782:A:C8	2.31	0.65
1:AA:783:A:N1	1:AA:785:G:O4'	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:942:G:O2'	1:AA:1189:A:N3	2.29	0.65
1:AA:988:A:P	26:AZ:10:LYS:HZ2	2.19	0.65
1:AA:1363:C:H2'	1:AA:1363:C:O2	1.95	0.65
1:AA:1418:G:OP1	1:AA:1588:C:C4'	2.45	0.65
1:AA:1446:C:H2'	1:AA:1447:G:C8	2.31	0.65
1:AA:1771:C:H2'	1:AA:1772:G:H8	1.62	0.65
1:AA:1775:U:N1	4:AD:208:LYS:HD2	2.12	0.65
1:AA:1941:C:C2'	1:AA:1942:C:O5'	2.43	0.65
1:AA:1953:A:H62	1:AA:2550:G:C4'	2.10	0.65
1:AA:2010:G:H2'	1:AA:2011:U:C5'	2.26	0.65
1:AA:2212:A:N3	1:AA:2212:A:C2'	2.56	0.65
1:AA:2661:G:O2'	1:AA:2662:A:H5'	1.96	0.65
1:AA:2749:A:H8	1:AA:2749:A:OP2	1.80	0.65
2:AB:0:A:H5''	2:AB:0:A:N3	2.11	0.65
2:AB:95:U:H2'	2:AB:96:G:C8	2.32	0.65
3:AC:22:ILE:HD11	3:AC:193:ILE:HD11	1.76	0.65
3:AC:100:ILE:HG23	3:AC:127:LEU:CG	2.16	0.65
3:AC:209:LEU:HD21	3:AC:212:VAL:HB	1.77	0.65
4:AD:54:ARG:CB	4:AD:218:ARG:HD2	2.27	0.65
4:AD:181:GLU:CB	4:AD:268:ARG:NH2	2.58	0.65
7:AG:49:ASP:C	7:AG:53:LEU:HD22	2.22	0.65
7:AG:60:LEU:CB	7:AG:66:GLN:O	2.41	0.65
11:AK:16:ILE:HD12	11:AK:53:VAL:O	1.96	0.65
13:AM:46:LYS:HB3	13:AM:49:ARG:NH2	2.11	0.65
13:AM:81:GLN:CA	13:AM:86:LYS:HE3	2.26	0.65
13:AM:91:PHE:CE2	13:AM:96:THR:HG22	2.32	0.65
13:AM:134:ALA:O	13:AM:135:LEU:C	2.39	0.65
15:AO:70:LEU:N	15:AO:70:LEU:HD23	2.11	0.65
16:AP:24:LEU:O	16:AP:86:ALA:HB1	1.96	0.65
17:AQ:81:PRO:O	17:AQ:82:LEU:C	2.40	0.65
18:AR:89:GLU:CD	19:AS:52:VAL:HB	2.21	0.65
18:AR:105:VAL:O	18:AR:109:LEU:CG	2.40	0.65
19:AS:43:GLU:O	19:AS:43:GLU:OE1	2.13	0.65
19:AS:61:VAL:O	19:AS:99:ILE:CB	2.39	0.65
23:AW:11:GLU:HG3	23:AW:36:LYS:NZ	2.11	0.65
23:AW:128:VAL:HB	23:AW:162:GLU:HB3	1.79	0.65
31:Ae:14:VAL:O	31:Ae:14:VAL:HG12	1.96	0.65
34:BA:178:C:C2	34:BA:179:A:C8	2.84	0.65
34:BA:266:G:H2'	50:BU:67:LYS:HZ3	1.59	0.65
34:BA:522:C:N4	34:BA:523:A:C6	2.65	0.65
34:BA:597:G:C6	34:BA:644:G:C6	2.84	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:698:G:H2'	34:BA:699:C:C6	2.32	0.65
34:BA:1115:C:O2	34:BA:1186:G:C4	2.50	0.65
34:BA:1151:A:N6	34:BA:1152:A:N6	2.43	0.65
34:BA:1152:A:C2	34:BA:1153:C:C4	2.84	0.65
34:BA:1373:G:C5'	40:BK:36:LYS:HB2	2.27	0.65
34:BA:1378:C:O2	34:BA:1378:C:C2'	2.44	0.65
34:BA:1419:G:O2'	34:BA:1420:C:H6	1.80	0.65
34:BA:1455:G:P	53:BX:32:ALA:C	2.78	0.65
35:BF:39:ILE:O	35:BF:41:ILE:CD1	2.45	0.65
36:BG:83:ARG:C	36:BG:85:ARG:H	2.05	0.65
37:BH:52:SER:O	37:BH:54:TYR:N	2.29	0.65
38:BI:17:ALA:HA	38:BI:26:PHE:CD2	2.31	0.65
41:BL:82:HIS:O	41:BL:137:VAL:CA	2.41	0.65
42:BM:23:ASN:HD22	42:BM:23:ASN:C	2.05	0.65
44:BO:18:ARG:HB2	44:BO:20:TYR:HE1	1.62	0.65
44:BO:31:THR:HG23	44:BO:41:THR:O	1.97	0.65
44:BO:110:ASP:CB	51:BV:88:LYS:HD2	2.26	0.65
45:BP:85:ILE:HA	45:BP:99:HIS:O	1.97	0.65
45:BP:93:LEU:HD23	45:BP:93:LEU:N	2.11	0.65
47:BR:42:ILE:HA	47:BR:45:ARG:HG2	1.79	0.65
51:BV:58:LEU:CB	51:BV:62:GLU:HB3	2.18	0.65
52:BW:45:VAL:HA	52:BW:67:VAL:CG2	2.27	0.65
52:BW:51:VAL:CG1	52:BW:75:ALA:HB3	2.27	0.65
52:BW:62:ILE:CD1	52:BW:67:VAL:HG13	2.26	0.65
53:BX:25:ARG:HG3	53:BX:25:ARG:HH11	1.61	0.65
55:CA:8:ILE:HA	55:CA:72:ILE:HG21	1.77	0.65
55:CA:27:GLN:OE1	55:CA:183:MET:SD	2.54	0.65
55:CA:39:GLN:HA	55:CA:40:GLU:CG	2.27	0.65
55:CA:374:ARG:CZ	55:CA:585:ILE:CG1	2.75	0.65
55:CA:396:LYS:CA	55:CA:474:ASP:C	2.68	0.65
55:CA:441:TYR:O	55:CA:443:ILE:N	2.30	0.65
1:AA:139:G:O6	1:AA:1595:G:O2'	2.14	0.65
1:AA:245:G:H1	1:AA:253:C:H42	1.44	0.65
1:AA:271(B):G:H5''	1:AA:271(C):U:C4'	2.27	0.65
1:AA:373:U:O2'	1:AA:375:C:N4	2.26	0.65
1:AA:445:C:H5''	18:AR:3:ARG:HG3	1.78	0.65
1:AA:469:G:H1	30:Ad:40:TRP:HE1	1.43	0.65
1:AA:558:G:H5'	11:AK:112:LEU:CG	2.27	0.65
1:AA:597:U:O2	1:AA:598:G:N7	2.30	0.65
1:AA:763:G:C2	1:AA:765:G:C4	2.85	0.65
1:AA:1058:G:C2	1:AA:1059:G:H8	2.15	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1081:U:C4	1:AA:1086:A:H2	2.14	0.65
1:AA:1221:C:C2	1:AA:1229:G:N2	2.65	0.65
1:AA:1366:A:H5'	27:Aa:1:MET:H1	1.62	0.65
1:AA:1475:G:N3	1:AA:1475:G:H2'	2.11	0.65
1:AA:1623:G:C2	1:AA:1624:G:C8	2.85	0.65
1:AA:1773:A:H2	1:AA:1977:A:N6	1.94	0.65
1:AA:1904:G:H2'	1:AA:1905:C:C5'	2.26	0.65
1:AA:1954:G:N3	1:AA:2551:C:H5''	2.11	0.65
1:AA:2230:G:H1'	27:Aa:58:ARG:NH2	2.12	0.65
1:AA:2398:U:H2'	1:AA:2399:G:H8	1.62	0.65
1:AA:2478:A:N7	1:AA:2479:G:N7	2.45	0.65
2:AB:55:U:H2'	2:AB:56:G:O4'	1.96	0.65
2:AB:115:G:H4'	16:AP:50:SER:CB	2.27	0.65
3:AC:128:GLY:HA2	3:AC:137:LEU:CD1	2.27	0.65
4:AD:119:ALA:HB2	4:AD:130:ALA:N	2.09	0.65
6:AF:74:ARG:NH2	6:AF:76:GLY:H	1.94	0.65
6:AF:131:GLY:CA	6:AF:138:GLU:HB2	2.26	0.65
8:AH:26:VAL:CG2	8:AH:75:ALA:HB1	2.27	0.65
8:AH:60:ARG:HG2	8:AH:64:LEU:CD1	2.27	0.65
8:AH:72:ILE:O	8:AH:75:ALA:HB3	1.96	0.65
8:AH:85:LYS:HE2	8:AH:142:GLY:HA2	1.77	0.65
8:AH:136:ILE:HG23	8:AH:137:ASP:N	2.10	0.65
9:AI:87:VAL:CB	9:AI:92:THR:CB	2.74	0.65
11:AK:87:LEU:O	11:AK:91:LEU:CD2	2.45	0.65
12:AL:10:VAL:O	12:AL:11:ALA:HB3	1.95	0.65
12:AL:116:SER:N	34:BA:345:C:O2	2.29	0.65
14:AN:22:LYS:HD2	14:AN:99:PRO:CB	2.26	0.65
15:AO:63:ARG:O	15:AO:64:ARG:C	2.39	0.65
15:AO:75:LEU:O	15:AO:76:VAL:C	2.39	0.65
16:AP:9:ARG:HD3	16:AP:12:PHE:CE2	2.24	0.65
16:AP:9:ARG:CD	16:AP:12:PHE:HE2	2.07	0.65
17:AQ:32:TYR:HD2	17:AQ:88:ILE:HA	1.62	0.65
17:AQ:113:LYS:O	17:AQ:114:LEU:C	2.40	0.65
18:AR:102:GLU:O	18:AR:105:VAL:CG1	2.44	0.65
20:AT:19:LEU:O	20:AT:22:ASP:HB2	1.97	0.65
20:AT:47:VAL:C	20:AT:51:LEU:HD13	2.21	0.65
22:AV:14:LEU:HD22	22:AV:20:TYR:N	2.11	0.65
23:AW:71:VAL:HG22	23:AW:88:PHE:CE2	2.31	0.65
26:AZ:35:ARG:HH12	26:AZ:47:VAL:CG1	2.10	0.65
28:Ab:44:THR:C	28:Ab:52:TYR:HH	2.03	0.65
34:BA:68:G:H2'	34:BA:69:G:O4'	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:124:G:H2'	34:BA:125:U:H6	1.61	0.65
34:BA:127:G:H2'	34:BA:128:G:H5'	1.79	0.65
34:BA:236:G:H2'	34:BA:236:G:N3	2.12	0.65
34:BA:236:G:H2'	34:BA:237:C:C6	2.31	0.65
34:BA:481:G:H5'	34:BA:482:A:OP1	1.97	0.65
34:BA:688:G:O2'	34:BA:689:C:H5'	1.96	0.65
34:BA:936:C:H2'	34:BA:937:A:O4'	1.97	0.65
34:BA:1156:G:H21	34:BA:1179:A:H2	1.42	0.65
34:BA:1308:U:H3'	46:BQ:92:HIS:HE2	1.60	0.65
34:BA:1345:U:H5'	34:BA:1346:A:OP1	1.95	0.65
34:BA:1376:U:H3	34:BA:1377:A:H62	1.45	0.65
34:BA:1394:A:N7	34:BA:1501:C:H1'	2.11	0.65
34:BA:1439:C:O2	34:BA:1463:C:O2	2.15	0.65
34:BA:1443:G:O3'	34:BA:1446:A:H4'	1.95	0.65
34:BA:1528:U:C1'	34:BA:1529:G:H21	2.10	0.65
35:BF:15:VAL:HG21	35:BF:210:SER:N	2.11	0.65
35:BF:74:LYS:HZ3	35:BF:76:GLN:HB2	1.62	0.65
37:BH:18:LYS:HE3	37:BH:33:MET:CB	2.27	0.65
37:BH:121:VAL:HG11	37:BH:136:PRO:HA	1.79	0.65
40:BK:115:ARG:HG3	40:BK:118:VAL:HG21	1.78	0.65
40:BK:140:ASP:O	40:BK:144:MET:CB	2.43	0.65
41:BL:97:VAL:HG13	41:BL:98:LYS:NZ	2.11	0.65
42:BM:9:ARG:CD	42:BM:14:VAL:HG22	2.22	0.65
42:BM:15:ALA:CB	42:BM:77:ILE:HG13	2.27	0.65
42:BM:50:LEU:HD22	42:BM:51:ARG:NH1	2.10	0.65
42:BM:117:HIS:C	42:BM:119:ALA:H	2.04	0.65
44:BO:63:LEU:O	44:BO:66:LEU:HB2	1.97	0.65
45:BP:56:ALA:CB	45:BP:68:ALA:O	2.36	0.65
47:BR:10:ALA:C	47:BR:12:ARG:H	2.02	0.65
49:BT:20:VAL:CG2	49:BT:35:LYS:HA	2.21	0.65
50:BU:43:LEU:C	50:BU:43:LEU:CD1	2.66	0.65
55:CA:397:GLN:O	55:CA:472:TYR:CD1	2.33	0.65
1:AA:270(B):A:H1'	1:AA:270(C):C:H5	1.62	0.65
1:AA:270(B):A:HO2'	1:AA:270(C):C:H6	1.43	0.65
1:AA:397:G:OP2	27:Aa:59:PHE:HZ	1.79	0.65
1:AA:464:U:C2	1:AA:788:A:N7	2.65	0.65
1:AA:611:C:H2'	1:AA:612:G:O4'	1.97	0.65
1:AA:746:A:C8	1:AA:2612:C:O5'	2.50	0.65
1:AA:969:U:C4	1:AA:970:C:C5	2.85	0.65
1:AA:1394:U:O3'	1:AA:1603:A:H5''	1.97	0.65
1:AA:1398:C:H2'	1:AA:1399:C:C6	2.32	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1407:C:O2'	1:AA:1408:C:H5'	1.96	0.65
1:AA:1414:G:C6	1:AA:1415:U:C4	2.85	0.65
1:AA:1433:U:O2	1:AA:1561:G:C2	2.50	0.65
1:AA:1464:C:C4'	1:AA:1528:A:H1'	2.27	0.65
1:AA:1519:G:C3'	1:AA:1520:U:O4'	2.45	0.65
1:AA:1567:A:N1	4:AD:85:ASP:CA	2.60	0.65
1:AA:1797:C:H2'	1:AA:1798:U:C5	2.31	0.65
1:AA:1803:A:O3'	4:AD:257:LEU:HD22	1.96	0.65
1:AA:1925:C:H2'	1:AA:1926:U:C6	2.31	0.65
1:AA:1935:G:HO2'	1:AA:1937:A:H2	0.76	0.65
1:AA:1955:U:P	1:AA:1956:U:O4	2.55	0.65
1:AA:2052:G:N3	5:AE:150:VAL:HB	2.12	0.65
1:AA:2419:U:H5'	29:Ac:23:THR:CG2	2.27	0.65
1:AA:2572:A:H5''	1:AA:2574:G:H5''	1.79	0.65
1:AA:2839:G:H2'	1:AA:2840:C:C6	2.31	0.65
2:AB:14:U:H1'	2:AB:107:U:H1'	1.78	0.65
3:AC:82:LYS:HE3	3:AC:147:PHE:CD1	2.23	0.65
4:AD:55:GLY:HA2	4:AD:217:ARG:CZ	2.27	0.65
4:AD:63:ARG:HD2	4:AD:85:ASP:HB3	1.79	0.65
4:AD:159:ALA:HB3	4:AD:202:LYS:NZ	2.12	0.65
5:AE:51:PHE:CZ	5:AE:53:PRO:HD3	2.32	0.65
5:AE:98:PRO:HD3	5:AE:175:VAL:CG1	2.25	0.65
7:AG:39:ILE:HD12	7:AG:92:VAL:O	1.97	0.65
7:AG:75:LYS:CG	7:AG:85:GLY:H	2.10	0.65
7:AG:144:ILE:HD12	7:AG:147:ASP:CG	2.21	0.65
8:AH:9:ILE:HD11	8:AH:69:ARG:HH12	1.60	0.65
8:AH:97:ARG:HB3	8:AH:97:ARG:NH1	2.11	0.65
10:AJ:29:GLN:HG2	55:CA:431:PRO:CB	2.27	0.65
10:AJ:98:ARG:NH2	10:AJ:101:TRP:H	1.95	0.65
10:AJ:99:ILE:O	10:AJ:103:GLN:HB3	1.97	0.65
11:AK:127:ASP:C	11:AK:129:PRO:CD	2.70	0.65
12:AL:63:VAL:HB	12:AL:78:ARG:CG	2.26	0.65
12:AL:70:LYS:HB3	12:AL:72:PRO:HD2	1.78	0.65
13:AM:23:PRO:CB	13:AM:29:LYS:N	2.60	0.65
13:AM:114:ILE:CG1	13:AM:130:PHE:HA	2.26	0.65
14:AN:45:GLN:HA	14:AN:48:GLU:HG2	1.79	0.65
14:AN:59:ARG:HA	14:AN:60:ARG:CZ	2.27	0.65
15:AO:51:LEU:CD2	15:AO:70:LEU:HD11	2.26	0.65
16:AP:56:LEU:HD12	16:AP:59:LYS:HD2	1.77	0.65
17:AQ:54:ARG:H	17:AQ:64:ARG:HB3	1.62	0.65
20:AT:13:SER:C	20:AT:16:LYS:NZ	2.55	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:74:ALA:O	20:AT:75:TYR:CG	2.50	0.65
22:AV:1:MET:HA	22:AV:33:LYS:HE3	1.78	0.65
24:AX:65:GLY:HA2	24:AX:82:ARG:O	1.97	0.65
26:AZ:23:LEU:HA	26:AZ:28:LEU:CD1	2.27	0.65
28:Ab:35:GLU:CD	28:Ab:51:TYR:CE1	2.75	0.65
31:Ae:30:ARG:NH2	31:Ae:43:GLN:C	2.51	0.65
34:BA:181:G:O2'	34:BA:182:U:H5'	1.96	0.65
34:BA:266:G:H2'	50:BU:67:LYS:HZ2	1.61	0.65
34:BA:313:A:H2'	34:BA:314:C:H6	1.58	0.65
34:BA:566:G:H4'	34:BA:567:G:OP1	1.96	0.65
34:BA:772:U:H2'	34:BA:773:G:H8	1.61	0.65
34:BA:931:C:H2'	34:BA:932:C:C5	2.31	0.65
34:BA:953:G:C6	34:BA:1229:A:N6	2.64	0.65
34:BA:981:U:H6	34:BA:981:U:H3'	1.61	0.65
34:BA:1287:A:H61	34:BA:1371:G:C4'	2.10	0.65
34:BA:1311:G:C2	34:BA:1327:C:N1	2.63	0.65
34:BA:1378:C:OP1	40:BK:6:ARG:HD3	1.97	0.65
35:BF:103:THR:O	35:BF:104:ASN:HB3	1.95	0.65
36:BG:15:THR:HB	36:BG:181:ASN:OD1	1.97	0.65
37:BH:56:VAL:HG12	37:BH:57:ARG:N	2.10	0.65
37:BH:141:ARG:HH11	37:BH:142:PRO:CD	2.10	0.65
37:BH:170:VAL:N	37:BH:176:LEU:HD22	2.10	0.65
37:BH:173:TRP:CE2	37:BH:189:PRO:HB3	2.32	0.65
42:BM:101:PHE:N	42:BM:101:PHE:CD1	2.64	0.65
43:BN:5:ARG:HB2	43:BN:5:ARG:NH1	2.11	0.65
45:BP:69:TYR:O	45:BP:71:PRO:HD3	1.96	0.65
46:BQ:66:LEU:H	46:BQ:70:LEU:HB2	1.62	0.65
47:BR:45:ARG:HH11	47:BR:45:ARG:CG	2.08	0.65
48:BS:42:HIS:CE1	48:BS:43:LEU:HA	2.32	0.65
50:BU:29:HIS:CE1	50:BU:31:LEU:N	2.64	0.65
50:BU:57:VAL:HG23	50:BU:58:GLU:N	2.10	0.65
52:BW:74:PHE:N	52:BW:74:PHE:CD1	2.64	0.65
55:CA:26:LEU:HD12	55:CA:29:SER:CB	2.27	0.65
55:CA:230:LYS:HG2	55:CA:266:ASP:CA	2.25	0.65
1:AA:18:C:O5'	1:AA:18:C:H6	1.80	0.65
1:AA:30:G:P	18:AR:11:ARG:HH22	2.20	0.65
1:AA:76:C:H4'	25:AY:54:ARG:HH11	1.60	0.65
1:AA:206:U:C6	1:AA:206:U:OP2	2.49	0.65
1:AA:270:A:N1	1:AA:370:G:C1'	2.56	0.65
1:AA:389:G:N1	13:AM:64:LYS:HG2	2.11	0.65
1:AA:537:C:H2'	1:AA:539:G:C8	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:566:U:H6	1:AA:567:A:N7	1.94	0.65
1:AA:637:A:N7	13:AM:115:LEU:HG	2.11	0.65
1:AA:654:A:H2'	1:AA:654:A:N3	2.10	0.65
1:AA:716:A:O4'	48:BS:44:LYS:CE	2.44	0.65
1:AA:815:C:C2'	1:AA:816:C:H5'	2.27	0.65
1:AA:832:G:HO2'	1:AA:833:U:H6	1.44	0.65
1:AA:838:C:H2'	1:AA:839:U:C6	2.31	0.65
1:AA:876:C:H2'	1:AA:877:U:C6	2.32	0.65
1:AA:878:A:H2'	1:AA:879:G:C8	2.32	0.65
1:AA:931:G:N3	26:AZ:24:LYS:HE3	2.12	0.65
1:AA:975:G:C8	1:AA:990:A:N6	2.65	0.65
1:AA:1062:G:H1'	1:AA:1063:G:O5'	1.97	0.65
1:AA:1158:C:H5'	26:AZ:31:LEU:HB3	1.77	0.65
1:AA:1198:U:H2'	1:AA:1199:U:H5	1.60	0.65
1:AA:1202:C:C6	1:AA:1203:G:C1'	2.71	0.65
1:AA:1212:G:C6	1:AA:1236:G:O6	2.49	0.65
1:AA:1266:G:O2'	1:AA:2012:G:N1	2.22	0.65
1:AA:1338:G:O2'	1:AA:1339:G:H5'	1.97	0.65
1:AA:1372:U:C2'	1:AA:1373:A:H5'	2.27	0.65
1:AA:1400:G:H2'	1:AA:1401:G:C8	2.32	0.65
1:AA:1519:G:H3'	1:AA:1520:U:C2	2.31	0.65
1:AA:1608:A:C5	1:AA:1611:C:C4	2.85	0.65
1:AA:1646:C:C3'	1:AA:1647:G:C5'	2.68	0.65
1:AA:1667:G:O3'	12:AL:7:TYR:OH	2.13	0.65
1:AA:1779:U:C6	1:AA:1779:U:H3'	2.31	0.65
1:AA:1789:A:H2'	4:AD:213:ARG:HH22	1.61	0.65
1:AA:1813:G:H21	4:AD:52:ARG:NH1	1.94	0.65
1:AA:1859:A:C8	1:AA:1860:G:C8	2.85	0.65
1:AA:1907:G:H2'	1:AA:1908:C:C6	2.31	0.65
1:AA:1947:C:C2	1:AA:1948:G:C8	2.85	0.65
1:AA:2550:G:H2'	1:AA:2551:C:H6	1.62	0.65
1:AA:2567:G:C6	1:AA:2568:C:N4	2.64	0.65
1:AA:2670:A:H2'	1:AA:2671:A:C8	2.31	0.65
1:AA:2720:U:C2'	1:AA:2721:A:H8	2.10	0.65
1:AA:2805:G:H2'	1:AA:2807:G:C4'	2.27	0.65
2:AB:80:U:H2'	2:AB:81:G:C8	2.32	0.65
3:AC:47:LEU:H	3:AC:47:LEU:HD23	1.62	0.65
3:AC:175:VAL:HA	3:AC:188:ASN:HD22	1.62	0.65
4:AD:97:TYR:HB2	4:AD:101:GLU:O	1.97	0.65
4:AD:233:HIS:ND1	4:AD:233:HIS:N	2.45	0.65
4:AD:247:ALA:O	4:AD:248:SER:O	2.15	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:34:TRP:C	6:AF:38:ARG:HD2	2.22	0.65
6:AF:39:TRP:CB	6:AF:101:LEU:HG	2.26	0.65
7:AG:39:ILE:HG13	7:AG:157:ILE:HG13	1.77	0.65
7:AG:151:ALA:C	7:AG:152:LEU:HG	2.17	0.65
8:AH:107:VAL:HG13	8:AH:152:ARG:NE	2.12	0.65
8:AH:109:PHE:CE1	55:CA:102:PHE:HZ	2.15	0.65
10:AJ:20:ALA:CB	10:AJ:21:PRO:HD3	2.25	0.65
11:AK:14:VAL:HG22	11:AK:138:LEU:HD13	1.78	0.65
11:AK:16:ILE:C	11:AK:54:VAL:HG23	2.22	0.65
13:AM:113:LYS:HA	13:AM:129:ALA:HB3	1.79	0.65
14:AN:109:VAL:HG11	14:AN:114:ALA:H	1.61	0.65
15:AO:32:GLY:O	15:AO:115:GLU:CB	2.32	0.65
16:AP:11:LYS:HB3	16:AP:15:ARG:NH1	2.12	0.65
17:AQ:56:GLY:O	17:AQ:61:PHE:HA	1.97	0.65
20:AT:16:LYS:N	20:AT:16:LYS:HD3	2.05	0.65
20:AT:17:VAL:O	20:AT:20:VAL:CG1	2.38	0.65
20:AT:36:LEU:HD11	20:AT:47:VAL:HB	1.77	0.65
22:AV:98:VAL:N	22:AV:101:LYS:HE3	2.12	0.65
23:AW:10:ARG:NE	23:AW:36:LYS:HB2	2.12	0.65
26:AZ:50:VAL:O	26:AZ:52:HIS:ND1	2.29	0.65
26:AZ:50:VAL:HG22	26:AZ:53:LEU:HD12	1.79	0.65
28:Ab:19:ARG:O	28:Ab:21:SER:N	2.30	0.65
34:BA:130:A:H4'	34:BA:190:G:N3	2.12	0.65
34:BA:363:A:C2'	34:BA:364:A:H5'	2.26	0.65
34:BA:581:G:H4'	48:BS:64:ARG:HH12	1.60	0.65
34:BA:809:G:C2'	34:BA:810:C:H5'	2.27	0.65
34:BA:908:A:C2	34:BA:909:A:N7	2.64	0.65
34:BA:922:G:C4'	38:BI:20:GLN:HA	2.23	0.65
34:BA:1151:A:C4	34:BA:1152:A:C8	2.85	0.65
34:BA:1162:C:H2'	34:BA:1163:C:C5	2.31	0.65
34:BA:1269:A:H1'	34:BA:1312:G:N3	2.11	0.65
34:BA:1329:A:OP1	46:BQ:29:ARG:CD	2.45	0.65
34:BA:1378:C:N3	34:BA:1379:G:C1'	2.60	0.65
34:BA:1409:C:O2	34:BA:1410:G:C8	2.49	0.65
34:BA:1435:G:N1	34:BA:1436:U:O4	2.30	0.65
35:BF:68:ILE:O	35:BF:90:MET:HB3	1.96	0.65
36:BG:59:ARG:HB2	36:BG:59:ARG:CZ	2.26	0.65
39:BJ:1:MET:HG2	39:BJ:68:PRO:HA	1.78	0.65
40:BK:111:ARG:HB3	40:BK:111:ARG:HH11	1.62	0.65
42:BM:38:GLN:C	42:BM:40:LEU:N	2.53	0.65
44:BO:14:VAL:O	44:BO:16:SER:N	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:36:LYS:HZ1	46:BQ:59:TYR:HB3	1.62	0.65
50:BU:31:LEU:C	50:BU:32:TYR:HD2	2.05	0.65
50:BU:41:LYS:O	50:BU:42:TYR:CD1	2.49	0.65
51:BV:56:THR:O	51:BV:58:LEU:HG	1.97	0.65
52:BW:36:ARG:HA	52:BW:71:LEU:HD12	1.79	0.65
55:CA:184:THR:H	55:CA:185:PRO:CD	2.10	0.65
55:CA:206:GLN:C	55:CA:227:LYS:H	2.00	0.65
55:CA:373:MET:HE2	55:CA:380:LEU:HD23	1.78	0.65
1:AA:13:A:N6	1:AA:525:U:N1	2.44	0.65
1:AA:27:G:C2	1:AA:512:G:O2'	2.50	0.65
1:AA:74:A:N1	25:AY:46:ARG:HD2	2.12	0.65
1:AA:292:C:H6	1:AA:293:U:O4	1.80	0.65
1:AA:331:A:C5	1:AA:1209:G:C2	2.85	0.65
1:AA:445:C:H5''	18:AR:3:ARG:CG	2.27	0.65
1:AA:503:A:N1	1:AA:505:A:N6	2.44	0.65
1:AA:558:G:C5'	11:AK:109:LYS:HD3	2.27	0.65
1:AA:596:G:C2	1:AA:597:U:C2	2.85	0.65
1:AA:669:G:C4	1:AA:801:G:C2	2.85	0.65
1:AA:703:U:H2'	1:AA:704:G:C1'	2.26	0.65
1:AA:783:A:C5'	1:AA:2589:A:OP1	2.35	0.65
1:AA:976:C:O2	1:AA:977:G:H8	1.79	0.65
1:AA:987:G:OP2	26:AZ:13:ILE:HD13	1.97	0.65
1:AA:1023:U:P	1:AA:1025:G:H1	2.19	0.65
1:AA:1116:C:OP2	1:AA:1116:C:H6	1.78	0.65
1:AA:1166:C:O2	1:AA:1184:G:N2	2.29	0.65
1:AA:1264:G:H5''	1:AA:1265:A:C5'	2.25	0.65
1:AA:1669:A:H2'	1:AA:1669:A:N3	2.11	0.65
1:AA:1692:U:C1'	1:AA:1696:G:N2	2.60	0.65
1:AA:1797:C:HO2'	4:AD:257:LEU:HD12	1.62	0.65
1:AA:2385:C:C2	1:AA:2386:C:C6	2.85	0.65
1:AA:2592:G:O6	1:AA:2593:U:C4	2.50	0.65
1:AA:2645:G:C8	1:AA:2645:G:OP2	2.50	0.65
1:AA:2661:G:H2'	1:AA:2662:A:H8	1.61	0.65
2:AB:9:G:H4'	16:AP:43:GLU:CD	2.21	0.65
2:AB:84:C:C2	2:AB:85:G:C8	2.84	0.65
4:AD:90:ALA:HB2	4:AD:159:ALA:CB	2.27	0.65
4:AD:181:GLU:HA	4:AD:270:ILE:CD1	2.25	0.65
5:AE:13:ARG:HG3	5:AE:22:PRO:CG	2.25	0.65
5:AE:178:GLU:OE1	5:AE:178:GLU:N	2.22	0.65
7:AG:3:LEU:HD22	7:AG:4:ASP:CG	2.21	0.65
7:AG:113:ARG:O	7:AG:114:ILE:HG22	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:131:TYR:CG	7:AG:158:ALA:HA	2.32	0.65
8:AH:139:GLN:HG3	8:AH:140:LYS:N	2.07	0.65
10:AJ:68:VAL:O	10:AJ:69:THR:HG23	1.96	0.65
11:AK:139:GLU:O	11:AK:140:VAL:HG23	1.97	0.65
13:AM:29:LYS:N	13:AM:29:LYS:HD2	2.11	0.65
13:AM:113:LYS:HA	13:AM:129:ALA:HB1	1.78	0.65
13:AM:114:ILE:CD1	13:AM:114:ILE:N	2.59	0.65
13:AM:114:ILE:HG13	13:AM:123:LEU:HB2	1.78	0.65
16:AP:33:LYS:CE	16:AP:54:LEU:HD21	2.27	0.65
16:AP:42:ASP:O	16:AP:44:LYS:N	2.27	0.65
18:AR:35:ALA:O	18:AR:38:THR:OG1	2.14	0.65
20:AT:69:LEU:HB3	20:AT:107:LEU:HD11	1.79	0.65
23:AW:46:LYS:O	23:AW:49:ARG:HB3	1.97	0.65
23:AW:123:ASP:H	23:AW:171:ILE:CD1	2.09	0.65
23:AW:177:PRO:HG2	23:AW:178:GLU:N	2.12	0.65
24:AX:46:LYS:HD3	24:AX:46:LYS:N	2.12	0.65
26:AZ:3:ARG:HB3	26:AZ:3:ARG:CZ	2.25	0.65
27:Aa:24:THR:C	27:Aa:25:TYR:CD1	2.74	0.65
27:Aa:29:PRO:CG	27:Aa:31:ILE:HG23	2.27	0.65
29:Ac:54:ILE:HD13	29:Ac:54:ILE:C	2.21	0.65
33:Ag:290:UNK:CA	33:Ag:343:UNK:N	2.49	0.65
34:BA:579:G:H8	34:BA:579:G:O5'	1.80	0.65
34:BA:867:G:H2'	34:BA:868:C:C5	2.31	0.65
34:BA:1054:C:H6	34:BA:1054:C:H3'	1.62	0.65
34:BA:1079:G:C2	34:BA:1080:A:N1	2.65	0.65
34:BA:1097:C:O2'	34:BA:1098:C:H5'	1.97	0.65
34:BA:1125:U:H4'	34:BA:1126:U:C5	2.32	0.65
34:BA:1252:A:C6	34:BA:1253:G:N7	2.65	0.65
34:BA:1295:G:N2	34:BA:1302:U:H3	1.95	0.65
34:BA:1357:A:C5	34:BA:1358:U:C4	2.84	0.65
34:BA:1370:G:H5''	42:BM:12:GLU:CD	2.22	0.65
34:BA:1506:U:O5'	34:BA:1506:U:H6	1.79	0.65
35:BF:164:VAL:HG22	35:BF:165:VAL:N	2.11	0.65
37:BH:101:LEU:HD23	37:BH:135:LEU:O	1.96	0.65
40:BK:155:ARG:NH1	40:BK:156:TRP:N	2.40	0.65
41:BL:104:ARG:HG2	41:BL:104:ARG:NH1	2.04	0.65
41:BL:111:ILE:N	41:BL:111:ILE:CD1	2.59	0.65
42:BM:19:LEU:HD23	42:BM:20:ARG:N	2.12	0.65
42:BM:26:VAL:HG13	42:BM:63:ILE:HD11	1.78	0.65
43:BN:34:VAL:CG1	43:BN:35:SER:H	2.06	0.65
45:BP:85:ILE:CD1	45:BP:98:TYR:HB2	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:56:LEU:HD12	46:BQ:60:VAL:HG21	1.80	0.65
51:BV:29:PHE:CD2	51:BV:39:VAL:HG11	2.32	0.65
52:BW:30:LEU:HD12	52:BW:59:PRO:HB3	1.79	0.65
53:BX:14:LYS:O	53:BX:15:ARG:C	2.39	0.65
55:CA:87:ARG:NH2	55:CA:301:SER:N	2.45	0.65
55:CA:100:ASP:OD1	55:CA:129:LYS:CG	2.45	0.65
55:CA:172:ALA:HA	55:CA:179:MET:CE	2.27	0.65
55:CA:204:PRO:C	55:CA:229:GLY:HA3	2.21	0.65
55:CA:504:LEU:CD2	55:CA:535:VAL:HG21	2.27	0.65
1:AA:270(W):G:C5	1:AA:270(X):G:C8	2.85	0.64
1:AA:293:U:C6	1:AA:293:U:C3'	2.80	0.64
1:AA:714:U:O2	1:AA:717:G:C8	2.50	0.64
1:AA:784:A:P	1:AA:2588:G:H5''	2.37	0.64
1:AA:1025:G:H1'	1:AA:1134:G:H4'	1.79	0.64
1:AA:1058:G:H2'	1:AA:1059:G:H5'	1.80	0.64
1:AA:1579:A:H2'	1:AA:1580:A:C4'	2.27	0.64
1:AA:1650:G:H5'	15:AO:104:ARG:NH2	2.12	0.64
1:AA:1758:G:O2'	1:AA:1759:A:OP1	2.11	0.64
1:AA:1882:C:H2'	1:AA:1883:G:H5'	1.78	0.64
1:AA:1959:G:H5'	34:BA:1418:A:O2'	1.97	0.64
1:AA:2335:A:C6	1:AA:2337:G:C2	2.85	0.64
1:AA:2521:C:H2'	1:AA:2522:U:O4'	1.97	0.64
1:AA:2585:U:OP1	1:AA:2585:U:H6	1.80	0.64
1:AA:2716:U:C2'	1:AA:2717:G:O5'	2.45	0.64
2:AB:24:G:N2	2:AB:27:C:H42	1.95	0.64
2:AB:110:G:H2'	2:AB:111:U:O5'	1.97	0.64
4:AD:222:ARG:O	4:AD:225:ALA:HB2	1.96	0.64
4:AD:229:VAL:HG13	4:AD:230:ASP:CG	2.21	0.64
5:AE:41:LYS:HE3	5:AE:41:LYS:N	2.12	0.64
5:AE:199:ARG:C	5:AE:200:GLU:CD	2.66	0.64
7:AG:104:GLU:HA	7:AG:108:ASN:HD22	1.61	0.64
8:AH:13:LYS:HE3	8:AH:80:SER:HA	1.78	0.64
8:AH:25:LYS:NZ	8:AH:32:GLU:HB2	2.11	0.64
8:AH:51:ARG:HD3	8:AH:52:VAL:N	2.13	0.64
8:AH:52:VAL:HG22	8:AH:65:HIS:CE1	2.32	0.64
10:AJ:104:VAL:HG13	10:AJ:127:ILE:CG1	1.99	0.64
11:AK:34:LEU:CD2	11:AK:116:LEU:HD21	2.27	0.64
12:AL:4:PRO:O	12:AL:6:THR:HG22	1.96	0.64
12:AL:59:LYS:CA	12:AL:86:ILE:HD12	2.20	0.64
14:AN:43:THR:CG2	14:AN:46:GLN:HB2	2.27	0.64
16:AP:62:LYS:HB2	16:AP:65:VAL:CG1	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:53:ARG:NH2	17:AQ:102:ILE:HD13	2.12	0.64
18:AR:5:LYS:C	18:AR:7:GLY:H	2.04	0.64
19:AS:43:GLU:H	19:AS:44:LYS:CE	2.10	0.64
19:AS:78:LYS:HE2	19:AS:84:LYS:HG2	1.79	0.64
20:AT:12:ILE:O	20:AT:13:SER:HB2	1.98	0.64
22:AV:32:PRO:HB2	22:AV:34:LYS:HE3	1.79	0.64
23:AW:153:SER:CB	23:AW:168:GLU:HB2	2.27	0.64
25:AY:2:ARG:CA	25:AY:5:LEU:HD13	2.23	0.64
25:AY:66:ASN:CG	25:AY:67:ALA:N	2.55	0.64
29:Ac:19:ARG:HH11	29:Ac:19:ARG:CG	1.97	0.64
34:BA:672:U:O2	34:BA:672:U:H2'	1.97	0.64
34:BA:772:U:O2'	34:BA:773:G:H5'	1.97	0.64
34:BA:824:C:O4'	41:BL:1:MET:N	2.26	0.64
34:BA:865:A:H2'	34:BA:866:C:O4'	1.96	0.64
34:BA:1461:G:H8	34:BA:1461:G:O5'	1.80	0.64
35:BF:40:HIS:C	35:BF:41:ILE:HD12	2.21	0.64
35:BF:75:LYS:HZ2	35:BF:75:LYS:C	2.04	0.64
35:BF:163:PHE:CE1	35:BF:186:ALA:HA	2.32	0.64
37:BH:31:CYS:O	37:BH:33:MET:N	2.24	0.64
37:BH:101:LEU:CB	37:BH:138:TYR:O	2.45	0.64
37:BH:143:GLY:HA2	37:BH:185:PHE:CG	2.32	0.64
38:BI:9:LYS:CG	38:BI:112:LEU:HG	2.27	0.64
38:BI:18:ARG:N	38:BI:26:PHE:HB3	2.11	0.64
38:BI:37:ARG:HH11	38:BI:111:GLU:C	2.06	0.64
38:BI:103:GLY:C	38:BI:107:ARG:HH12	2.05	0.64
38:BI:142:LEU:N	38:BI:143:ARG:HE	1.94	0.64
39:BJ:98:LEU:HG	51:BV:28:GLU:HG2	1.78	0.64
40:BK:65:ALA:N	40:BK:128:ALA:HA	2.12	0.64
45:BP:24:VAL:HG23	45:BP:97:ARG:CG	2.24	0.64
46:BQ:56:LEU:HD13	46:BQ:60:VAL:HG22	1.79	0.64
50:BU:4:LYS:CE	50:BU:5:VAL:O	2.44	0.64
55:CA:7:ASN:OD1	55:CA:69:ARG:HG2	1.97	0.64
55:CA:55:THR:O	55:CA:56:ILE:HB	1.97	0.64
55:CA:70:ILE:O	55:CA:71:ASN:HB2	1.97	0.64
55:CA:124:ILE:HG23	55:CA:161:ALA:HA	1.77	0.64
55:CA:136:ARG:HG3	55:CA:139:TRP:HB3	1.80	0.64
55:CA:163:VAL:CG1	55:CA:172:ALA:O	2.46	0.64
1:AA:93:C:H2'	1:AA:94:G:C8	2.32	0.64
1:AA:137:C:O2'	1:AA:137(A):G:H5'	1.97	0.64
1:AA:230:U:H2'	1:AA:231:C:C6	2.32	0.64
1:AA:371:A:N7	1:AA:424:G:O5'	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:391:G:H2'	1:AA:392:C:C5	2.32	0.64
1:AA:400:G:H3'	1:AA:400:G:C8	2.32	0.64
1:AA:527:C:O4'	1:AA:2779:U:O4	2.16	0.64
1:AA:624:C:OP2	13:AM:105:LEU:HB3	1.98	0.64
1:AA:636:G:H2'	13:AM:113:LYS:HZ1	1.62	0.64
1:AA:729:G:H5''	4:AD:211:ARG:HH12	1.63	0.64
1:AA:865:C:O2	1:AA:865:C:H2'	1.95	0.64
1:AA:892:G:O2'	1:AA:893:C:O4'	2.16	0.64
1:AA:930:U:O2	1:AA:932:G:C2	2.50	0.64
1:AA:950:G:C6	1:AA:951:C:C4	2.85	0.64
1:AA:975:G:C6	1:AA:976:C:C5	2.85	0.64
1:AA:1022:G:H3'	1:AA:1025:G:O6	1.97	0.64
1:AA:1142(A):A:C6	1:AA:1143:A:H8	2.15	0.64
1:AA:1491:G:H2'	1:AA:1492:G:C4'	2.26	0.64
1:AA:1633:G:C8	1:AA:1635:G:O6	2.49	0.64
1:AA:1687:G:C5	1:AA:1688:U:H5	2.14	0.64
1:AA:1703:G:C2	1:AA:1704:G:C4	2.85	0.64
1:AA:2063:C:H3'	1:AA:2064:C:C5'	2.21	0.64
1:AA:2323:G:H2'	1:AA:2324:C:C5	2.31	0.64
1:AA:2404:C:C2	1:AA:2414:G:N2	2.66	0.64
1:AA:2460:U:H2'	1:AA:2461:C:C6	2.32	0.64
1:AA:2526:G:H2'	1:AA:2527:C:O5'	1.97	0.64
1:AA:2820:A:C2'	1:AA:2821:A:OP1	2.44	0.64
2:AB:39:A:H2	2:AB:44:G:OP2	1.79	0.64
4:AD:57:GLY:H	4:AD:217:ARG:CD	2.08	0.64
5:AE:27:LEU:CD1	5:AE:76:ARG:NH2	2.61	0.64
8:AH:18:GLU:OE1	8:AH:25:LYS:HG2	1.97	0.64
8:AH:29:PRO:HD3	8:AH:79:VAL:CA	2.27	0.64
8:AH:40:GLU:CB	8:AH:55:PRO:HG3	2.27	0.64
9:AI:97:ALA:HB2	9:AI:132:ASP:C	2.23	0.64
10:AJ:11:GLN:CA	10:AJ:56:GLU:HB2	2.18	0.64
10:AJ:76:TYR:HD1	10:AJ:80:LYS:CD	2.10	0.64
11:AK:27:ALA:O	11:AK:28:THR:C	2.40	0.64
11:AK:87:LEU:O	11:AK:91:LEU:HD21	1.97	0.64
12:AL:7:TYR:HA	12:AL:18:LYS:CE	2.28	0.64
12:AL:65:THR:O	12:AL:66:LYS:HB2	1.96	0.64
12:AL:94:ARG:HG2	12:AL:96:THR:O	1.97	0.64
13:AM:114:ILE:HD13	13:AM:114:ILE:N	2.13	0.64
15:AO:14:SER:C	15:AO:17:ARG:HG2	2.22	0.64
15:AO:44:LEU:HD13	15:AO:48:VAL:HG21	1.80	0.64
15:AO:79:LEU:HD23	15:AO:80:PHE:HA	1.78	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:83:ILE:CG2	15:AO:86:ARG:CZ	2.74	0.64
17:AQ:34:VAL:HG23	17:AQ:36:GLU:HB2	1.78	0.64
18:AR:79:PHE:CE1	18:AR:83:LEU:HD11	2.32	0.64
18:AR:102:GLU:O	18:AR:105:VAL:N	2.30	0.64
20:AT:98:LYS:HZ2	20:AT:98:LYS:HB3	1.62	0.64
23:AW:48:PHE:HD1	23:AW:54:HIS:NE2	1.92	0.64
29:Ac:25:LYS:O	29:Ac:26:ASN:CB	2.44	0.64
29:Ac:35:GLU:CD	29:Ac:52:VAL:HG13	2.22	0.64
34:BA:43:C:H2'	34:BA:44:G:C8	2.33	0.64
34:BA:189:U:C4	50:BU:72:ARG:NH2	2.63	0.64
34:BA:372:C:N4	34:BA:389:A:H62	1.95	0.64
34:BA:588:G:H1'	34:BA:753:A:N1	2.12	0.64
34:BA:687:A:H61	34:BA:703:G:C1'	2.09	0.64
34:BA:719:C:OP2	34:BA:720:C:N4	2.30	0.64
34:BA:731:G:O2'	34:BA:732:C:H5'	1.97	0.64
34:BA:765:G:H21	34:BA:816:A:H2	1.45	0.64
34:BA:841:U:H2'	34:BA:841:U:O2	1.97	0.64
34:BA:1053:G:C5'	34:BA:1054:C:H5'	2.20	0.64
34:BA:1163:C:C2'	34:BA:1164:G:H5'	2.27	0.64
34:BA:1276:G:O2'	34:BA:1282:C:H4'	1.98	0.64
34:BA:1305:G:H5''	54:BY:4:GLY:C	2.22	0.64
35:BF:169:LYS:C	35:BF:171:ALA:H	2.05	0.64
36:BG:24:ALA:HB1	36:BG:28:GLN:NE2	2.11	0.64
36:BG:84:ILE:O	36:BG:101:LEU:HD13	1.97	0.64
36:BG:131:ARG:HH12	38:BI:51:VAL:HG23	1.62	0.64
38:BI:12:LEU:O	38:BI:30:ALA:HA	1.97	0.64
38:BI:31:LEU:CD1	38:BI:129:ILE:HA	2.27	0.64
41:BL:51:VAL:HG21	41:BL:60:ARG:NH2	2.09	0.64
43:BN:49:VAL:O	43:BN:60:ARG:HB3	1.98	0.64
44:BO:106:LYS:CG	44:BO:107:SER:H	2.09	0.64
45:BP:9:GLN:HA	45:BP:12:ARG:NH1	2.12	0.64
46:BQ:16:ASP:HA	46:BQ:30:ALA:HB1	1.79	0.64
46:BQ:37:THR:HG23	46:BQ:39:ILE:CG1	2.25	0.64
47:BR:23:ARG:N	47:BR:33:VAL:HG21	2.10	0.64
47:BR:34:TYR:OH	47:BR:44:LEU:HD22	1.97	0.64
50:BU:59:ILE:CG1	50:BU:71:PHE:HB3	2.27	0.64
53:BX:57:ARG:O	53:BX:59:ALA:N	2.29	0.64
54:BY:23:PRO:C	54:BY:25:LYS:H	2.04	0.64
55:CA:18:LYS:HD2	57:CA:701:GCP:O3G	1.96	0.64
55:CA:57:LEU:CG	55:CA:254:VAL:C	2.66	0.64
55:CA:234:ASN:HA	55:CA:235:GLN:O	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:9:U:H2'	1:AA:9:U:O2	1.97	0.64
1:AA:13:A:N6	1:AA:525:U:C2	2.65	0.64
1:AA:197:A:N1	1:AA:198:C:H1'	2.12	0.64
1:AA:257:A:C2	1:AA:258:G:H1'	2.32	0.64
1:AA:274:G:C2'	1:AA:275:G:H5'	2.27	0.64
1:AA:412:A:H62	1:AA:2411:A:H1'	1.61	0.64
1:AA:533:G:P	18:AR:25:TRP:HB2	2.38	0.64
1:AA:756:C:H2'	1:AA:757:U:C5'	2.27	0.64
1:AA:910:A:N6	1:AA:911:A:N6	2.45	0.64
1:AA:954:G:H1'	1:AA:2274:A:C2	2.33	0.64
1:AA:1059:G:H4'	10:AJ:74:ALA:N	2.05	0.64
1:AA:1064:C:N3	1:AA:1065:U:C2	2.65	0.64
1:AA:1083:U:HO2'	1:AA:1084:A:H8	1.45	0.64
1:AA:1085:A:H1'	1:AA:1086:A:OP2	1.98	0.64
1:AA:1142(A):A:P	1:AA:1143:A:H5'	2.37	0.64
1:AA:1153:C:C4	1:AA:1154:G:O6	2.51	0.64
1:AA:1242:A:O4'	1:AA:1242:A:OP1	2.15	0.64
1:AA:1275:A:H2'	1:AA:1276:A:O4'	1.97	0.64
1:AA:1406:U:C2	1:AA:1407:C:C5	2.84	0.64
1:AA:1498:C:H1'	1:AA:1576:U:H4'	1.80	0.64
1:AA:1534:G:H21	1:AA:1537:C:H41	1.46	0.64
1:AA:1634:A:O2'	1:AA:1635:G:P	2.55	0.64
1:AA:1779:U:H6	1:AA:1779:U:H3'	1.61	0.64
1:AA:1782:C:H42	1:AA:2587:A:H61	1.44	0.64
1:AA:1803:A:H2'	1:AA:1804:C:H6	1.61	0.64
1:AA:1820:U:C5	4:AD:159:ALA:HB3	2.32	0.64
1:AA:1920:C:H1'	1:AA:1921:G:O5'	1.96	0.64
1:AA:2021:C:H5'	1:AA:2022:U:C5	2.31	0.64
1:AA:2467:C:OP1	32:Af:8:LYS:NZ	2.25	0.64
1:AA:2543:G:N2	1:AA:2765:A:C4	2.65	0.64
1:AA:2815:C:C2	1:AA:2816:C:C6	2.86	0.64
2:AB:50:G:H2'	2:AB:50:G:N3	2.11	0.64
2:AB:90:C:O2'	2:AB:91:C:H5'	1.97	0.64
4:AD:71:ASP:O	4:AD:72:LYS:HB2	1.95	0.64
4:AD:159:ALA:O	4:AD:196:VAL:HG21	1.95	0.64
5:AE:27:LEU:HD11	5:AE:30:PRO:CD	2.23	0.64
5:AE:33:VAL:HG21	5:AE:77:ILE:HD12	1.79	0.64
5:AE:59:VAL:HB	5:AE:62:PRO:HD2	1.78	0.64
5:AE:182:LEU:HD22	5:AE:184:VAL:HG13	1.77	0.64
6:AF:118:ALA:HB1	6:AF:122:LYS:HB2	1.79	0.64
6:AF:184:TYR:N	6:AF:184:TYR:CD1	2.64	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:94:LEU:HG	7:AG:98:ARG:CZ	2.27	0.64
9:AI:26:LEU:O	9:AI:114:GLY:N	2.30	0.64
11:AK:4:TYR:CB	18:AR:64:ARG:NH1	2.60	0.64
12:AL:11:ALA:HB2	12:AL:17:ARG:NE	2.13	0.64
12:AL:96:THR:O	12:AL:97:ARG:CB	2.45	0.64
12:AL:97:ARG:NE	12:AL:98:VAL:N	2.45	0.64
13:AM:97:PRO:HB3	13:AM:102:ARG:NH2	2.12	0.64
14:AN:111:GLU:C	14:AN:113:GLN:N	2.55	0.64
17:AQ:112:ARG:NH1	34:BA:1464:G:OP1	2.29	0.64
18:AR:88:ILE:CA	19:AS:52:VAL:HG22	2.27	0.64
18:AR:92:ARG:O	18:AR:95:LEU:HG	1.97	0.64
19:AS:12:TYR:CE1	19:AS:14:VAL:N	2.65	0.64
20:AT:68:ARG:HG3	20:AT:109:GLU:OE1	1.97	0.64
21:AU:7:VAL:HG11	25:AY:31:ARG:NH1	2.11	0.64
23:AW:137:ILE:C	23:AW:138:GLU:HG3	2.21	0.64
23:AW:159:PRO:O	23:AW:161:VAL:HG23	1.97	0.64
26:AZ:5:LYS:HZ2	26:AZ:59:VAL:CG2	2.09	0.64
26:AZ:40:THR:CG2	26:AZ:42:ALA:HB3	2.26	0.64
30:Ad:8:ASN:HD21	30:Ad:10:ARG:HB2	1.62	0.64
31:Ae:10:ALA:HB1	31:Ae:64:TYR:CD2	2.32	0.64
31:Ae:60:LEU:HD11	31:Ae:64:TYR:HB2	1.78	0.64
34:BA:251:G:H22	34:BA:272:C:H42	1.43	0.64
34:BA:307:C:N4	34:BA:308:C:H5	1.94	0.64
34:BA:397:A:O2'	34:BA:399:G:OP2	2.14	0.64
34:BA:675:A:H1'	44:BO:116:HIS:CG	2.33	0.64
34:BA:722:A:O3'	34:BA:723:U:N3	2.31	0.64
34:BA:736:C:H4'	39:BJ:89:MET:SD	2.38	0.64
34:BA:982:U:H1'	34:BA:983:A:N6	2.12	0.64
34:BA:1021:G:H2'	34:BA:1022:G:C1'	2.27	0.64
34:BA:1085:U:OP2	34:BA:1086:U:O4	2.15	0.64
34:BA:1243:C:OP2	54:BY:10:ARG:CZ	2.45	0.64
34:BA:1321:C:C4	34:BA:1322:C:H2'	2.32	0.64
34:BA:1405:G:H1'	34:BA:1519:A:O4'	1.96	0.64
34:BA:1436:U:O5'	34:BA:1436:U:H6	1.79	0.64
35:BF:61:LEU:HD11	35:BF:68:ILE:HD13	1.78	0.64
36:BG:76:VAL:HG12	36:BG:77:ILE:N	2.11	0.64
37:BH:116:GLN:O	37:BH:119:GLN:HB3	1.97	0.64
38:BI:31:LEU:CD1	38:BI:129:ILE:HG23	2.19	0.64
41:BL:29:SER:O	41:BL:32:LYS:HG2	1.96	0.64
45:BP:58:VAL:HG12	45:BP:59:ARG:N	2.10	0.64
48:BS:6:GLU:HG2	48:BS:7:GLU:HG3	1.78	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:34:LEU:HD12	48:BS:38:ARG:HE	1.61	0.64
49:BT:4:ILE:CG2	49:BT:21:VAL:CG1	2.72	0.64
52:BW:45:VAL:CG2	52:BW:67:VAL:HG21	2.27	0.64
55:CA:144:VAL:CG1	55:CA:147:LEU:HD22	2.26	0.64
55:CA:373:MET:CE	55:CA:380:LEU:CD2	2.75	0.64
1:AA:13:A:N7	1:AA:15:G:O6	2.31	0.64
1:AA:25:U:C2	1:AA:26:G:C8	2.85	0.64
1:AA:97:C:H2'	1:AA:98:G:O4'	1.97	0.64
1:AA:150:C:O2	1:AA:151:C:C6	2.50	0.64
1:AA:197:A:O4'	1:AA:2068:U:C2	2.51	0.64
1:AA:270(S):G:C2	1:AA:270(T):G:N7	2.65	0.64
1:AA:298:G:O5'	1:AA:298:G:C8	2.48	0.64
1:AA:558:G:H5''	11:AK:109:LYS:HG2	1.79	0.64
1:AA:623:G:C8	13:AM:105:LEU:CD1	2.79	0.64
1:AA:806:C:O5'	1:AA:806:C:H6	1.81	0.64
1:AA:827:U:C6	1:AA:2430:A:C2	2.85	0.64
1:AA:877:U:O5'	1:AA:877:U:H6	1.81	0.64
1:AA:878:A:C5	1:AA:898:C:N4	2.65	0.64
1:AA:883:G:C4	1:AA:884:C:C5	2.86	0.64
1:AA:941:A:C2	1:AA:942:G:C4	2.85	0.64
1:AA:1197:G:C5	1:AA:1198:U:C6	2.85	0.64
1:AA:1470:G:H3'	1:AA:1470:G:C8	2.32	0.64
1:AA:1681:G:C2'	1:AA:1682:G:OP1	2.44	0.64
1:AA:1785:A:OP1	1:AA:1981:A:H3'	1.97	0.64
1:AA:1834:U:H4'	1:AA:1834:U:OP1	1.96	0.64
1:AA:1926:U:O5'	1:AA:1926:U:H6	1.80	0.64
1:AA:1949:G:N2	1:AA:1958:C:C2	2.65	0.64
1:AA:2208:U:H1'	1:AA:2217:G:C2	2.32	0.64
1:AA:2231:C:C2	1:AA:2232:U:C5	2.86	0.64
1:AA:2439:A:H4'	1:AA:2440:C:C5'	2.26	0.64
1:AA:2516:G:O6	1:AA:2567:G:O6	2.15	0.64
1:AA:2569:G:N1	1:AA:2570:G:N7	2.45	0.64
1:AA:2611:U:H2'	1:AA:2612:C:O4'	1.97	0.64
1:AA:2612:C:O2	28:Ab:4:HIS:CG	2.50	0.64
3:AC:10:LEU:HG	3:AC:220:PRO:HG3	1.80	0.64
4:AD:18:VAL:C	4:AD:20:ASP:N	2.56	0.64
4:AD:118:VAL:H	4:AD:129:ASN:CG	2.05	0.64
4:AD:202:LYS:H	4:AD:202:LYS:CD	2.05	0.64
5:AE:119:ARG:NH1	5:AE:155:LYS:HB3	2.13	0.64
6:AF:140:LEU:O	6:AF:143:ALA:HB3	1.96	0.64
8:AH:157:TYR:CD1	8:AH:158:HIS:N	2.65	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:17:ALA:C	10:AJ:41:PHE:HB2	2.23	0.64
10:AJ:104:VAL:HG11	10:AJ:127:ILE:CG1	2.04	0.64
11:AK:12:ARG:HB3	11:AK:12:ARG:CZ	2.26	0.64
11:AK:85:ILE:CB	11:AK:90:MET:HE1	2.25	0.64
11:AK:99:LEU:CD1	11:AK:100:GLU:N	2.59	0.64
11:AK:103:VAL:HG22	11:AK:104:LYS:CD	2.26	0.64
12:AL:52:VAL:O	12:AL:53:LYS:HG2	1.97	0.64
12:AL:77:ILE:HA	12:AL:78:ARG:NH1	2.12	0.64
13:AM:29:LYS:C	13:AM:30:THR:CG2	2.70	0.64
18:AR:40:PHE:CD2	19:AS:84:LYS:HG2	2.33	0.64
22:AV:12:THR:HG21	22:AV:70:SER:O	1.97	0.64
23:AW:152:ALA:O	23:AW:155:LEU:HB2	1.97	0.64
24:AX:23:VAL:CA	24:AX:38:VAL:HG13	2.27	0.64
28:Ab:37:LYS:HD2	28:Ab:37:LYS:H	1.61	0.64
32:Af:25:VAL:CB	32:Af:34:GLN:HB2	2.22	0.64
34:BA:391:G:OP1	49:BT:28:ARG:NH2	2.30	0.64
34:BA:1062:U:C2'	34:BA:1063:C:C5	2.67	0.64
34:BA:1162:C:N1	34:BA:1163:C:H5	1.94	0.64
34:BA:1242:C:C5'	54:BY:10:ARG:HH12	2.02	0.64
34:BA:1409:C:C2	34:BA:1410:G:C8	2.85	0.64
34:BA:1483:A:O5'	34:BA:1483:A:C8	2.49	0.64
34:BA:1519:A:C2'	34:BA:1520:G:H5'	2.27	0.64
36:BG:14:ILE:HG22	36:BG:15:THR:N	2.12	0.64
36:BG:112:SER:O	36:BG:116:VAL:HG23	1.96	0.64
38:BI:62:ALA:O	38:BI:66:MET:SD	2.55	0.64
38:BI:78:HIS:H	38:BI:78:HIS:HD2	1.41	0.64
38:BI:140:ARG:NH1	38:BI:140:ARG:CB	2.61	0.64
39:BJ:30:LEU:HD23	39:BJ:75:LEU:HD13	1.78	0.64
40:BK:69:VAL:HG11	40:BK:104:LEU:CD2	2.27	0.64
45:BP:54:LYS:CB	45:BP:70:ILE:HB	2.26	0.64
48:BS:53:HIS:CD2	48:BS:57:LEU:HD11	2.32	0.64
49:BT:42:ARG:O	49:BT:43:LYS:HB2	1.96	0.64
50:BU:43:LEU:HD22	50:BU:44:ALA:O	1.97	0.64
50:BU:82:MET:HA	50:BU:85:VAL:HG21	1.78	0.64
50:BU:88:TYR:CA	50:BU:91:ARG:NH2	2.60	0.64
52:BW:5:LEU:HD23	52:BW:6:LYS:H	1.61	0.64
52:BW:9:VAL:HG22	52:BW:42:PRO:N	2.12	0.64
53:BX:13:LEU:N	53:BX:13:LEU:CD1	2.57	0.64
55:CA:31:THR:HB	55:CA:32:PHE:CD1	2.32	0.64
55:CA:87:ARG:NH2	55:CA:301:SER:H	1.96	0.64
1:AA:89:G:OP2	1:AA:91:A:OP1	2.15	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:105:C:C2	1:AA:106:C:H5	2.16	0.64
1:AA:108:U:H2'	1:AA:109:G:C8	2.33	0.64
1:AA:270(C):C:OP2	1:AA:365:C:O2'	2.16	0.64
1:AA:286:C:H2'	1:AA:287:C:C6	2.32	0.64
1:AA:312:G:H5''	1:AA:313:C:OP2	1.97	0.64
1:AA:642:G:H3'	1:AA:642:G:C8	2.33	0.64
1:AA:669:G:N3	1:AA:669:G:C2'	2.59	0.64
1:AA:686:G:OP1	30:Ad:11:LYS:HE2	1.98	0.64
1:AA:703:U:H3'	1:AA:704:G:C8	2.32	0.64
1:AA:800:A:O2'	1:AA:801:G:P	2.55	0.64
1:AA:974:G:N2	1:AA:1187:G:C6	2.65	0.64
1:AA:1238:G:C2	1:AA:1239:G:C4	2.85	0.64
1:AA:1409:C:O2'	1:AA:1410:G:H5'	1.98	0.64
1:AA:1429:G:H3'	1:AA:1430:C:C6	2.32	0.64
1:AA:1471:A:OP2	1:AA:1472:A:H2	1.79	0.64
1:AA:1472:A:C1'	1:AA:1473:G:C8	2.80	0.64
1:AA:1480:G:H2'	1:AA:1480:G:N3	2.11	0.64
1:AA:1709:U:H6	1:AA:1709:U:H5'	1.61	0.64
1:AA:1834:U:O2'	1:AA:1969:A:C2	2.50	0.64
1:AA:1890:A:H2'	1:AA:1891:G:O4'	1.98	0.64
1:AA:2161:C:C2	1:AA:2162:G:N7	2.66	0.64
1:AA:2250:G:O2'	1:AA:2496:C:H5'	1.98	0.64
1:AA:2283:C:C4	1:AA:2284:C:H1'	2.33	0.64
1:AA:2376:A:N3	1:AA:2377:A:H1'	2.13	0.64
1:AA:2631:G:P	1:AA:2894:G:H1'	2.18	0.64
1:AA:2660:A:N3	55:CA:456:MET:C	2.55	0.64
1:AA:2674:G:C2'	1:AA:2675:A:H5'	2.27	0.64
1:AA:2882:A:OP1	15:AO:96:ARG:NE	2.31	0.64
2:AB:11:C:O2	2:AB:15:A:N6	2.31	0.64
3:AC:59:ARG:HD3	3:AC:164:ARG:CG	2.28	0.64
4:AD:171:ASP:O	4:AD:186:HIS:CA	2.43	0.64
5:AE:179:GLU:O	5:AE:181:LEU:N	2.31	0.64
7:AG:130:ASN:O	7:AG:159:VAL:O	2.16	0.64
9:AI:54:ALA:CB	9:AI:85:ASP:N	2.42	0.64
11:AK:108:PRO:O	11:AK:113:GLY:HA3	1.97	0.64
13:AM:55:ARG:O	13:AM:56:SER:CB	2.46	0.64
13:AM:76:LYS:HZ2	13:AM:99:LEU:HD12	1.63	0.64
14:AN:9:TYR:HD2	14:AN:10:ARG:HD3	1.63	0.64
14:AN:67:ARG:NH2	14:AN:103:MET:HB3	2.10	0.64
16:AP:40:ILE:HG22	16:AP:41:ASP:N	2.12	0.64
16:AP:54:LEU:HG	16:AP:56:LEU:CD2	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:69:VAL:HG12	16:AP:73:LEU:HD21	1.78	0.64
18:AR:83:LEU:O	18:AR:90:VAL:HG22	1.98	0.64
18:AR:84:LYS:O	18:AR:85:LYS:C	2.38	0.64
18:AR:87:GLY:C	18:AR:89:GLU:H	2.06	0.64
19:AS:1:MET:SD	19:AS:15:GLU:CD	2.81	0.64
19:AS:38:LEU:H	19:AS:38:LEU:HD23	1.63	0.64
20:AT:6:ILE:HA	20:AT:103:ILE:O	1.98	0.64
24:AX:50:ASN:HA	24:AX:62:LEU:HD13	1.78	0.64
25:AY:32:PHE:HD1	25:AY:32:PHE:H	1.46	0.64
28:Ab:20:ARG:HA	28:Ab:23:HIS:CD2	2.31	0.64
29:Ac:7:ILE:CG2	29:Ac:8:LYS:N	2.61	0.64
34:BA:361:G:N7	34:BA:362:G:C6	2.65	0.64
34:BA:452:A:N6	34:BA:480:U:C2	2.66	0.64
34:BA:493:G:H2'	34:BA:494:U:H5	1.63	0.64
34:BA:524:G:H2'	34:BA:525:C:H6	1.62	0.64
34:BA:569:C:H1'	34:BA:574:A:C2	2.33	0.64
34:BA:858:G:N2	34:BA:870:U:OP2	2.30	0.64
34:BA:967:C:O5'	34:BA:967:C:C6	2.50	0.64
34:BA:983:A:C1'	34:BA:1201:A:N7	2.59	0.64
34:BA:1007:C:H2'	34:BA:1008:C:C6	2.33	0.64
34:BA:1251:A:H61	34:BA:1285:A:H2	1.43	0.64
34:BA:1434:A:N6	34:BA:1435:G:C2	2.66	0.64
34:BA:1437:C:O5'	34:BA:1437:C:H6	1.79	0.64
35:BF:69:LEU:HB2	35:BF:159:PRO:CB	2.27	0.64
35:BF:97:TRP:HE1	35:BF:101:MET:HE1	1.63	0.64
35:BF:102:LEU:HB3	35:BF:180:LEU:HD13	1.78	0.64
36:BG:51:GLY:O	36:BG:52:LEU:O	2.16	0.64
37:BH:12:CYS:HA	37:BH:19:LEU:CB	2.21	0.64
37:BH:124:GLY:O	37:BH:126:ILE:HG12	1.96	0.64
42:BM:28:VAL:O	42:BM:30:GLY:N	2.30	0.64
42:BM:113:LYS:HD2	42:BM:113:LYS:N	2.13	0.64
44:BO:53:SER:OG	44:BO:54:ARG:N	2.28	0.64
44:BO:82:VAL:HB	44:BO:108:ILE:CG1	2.27	0.64
45:BP:33:ARG:O	45:BP:85:ILE:HG22	1.96	0.64
45:BP:76:ASN:ND2	45:BP:77:LEU:HD23	2.13	0.64
46:BQ:37:THR:HB	46:BQ:56:LEU:CB	2.28	0.64
48:BS:33:THR:HG23	48:BS:87:ILE:HD11	1.79	0.64
48:BS:35:ARG:HH12	48:BS:59:MET:HE2	1.62	0.64
48:BS:41:GLU:CD	48:BS:41:GLU:C	2.66	0.64
49:BT:27:LYS:O	49:BT:28:ARG:C	2.41	0.64
52:BW:22:LEU:O	52:BW:25:LYS:NZ	2.29	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:30:LEU:CD2	52:BW:50:ALA:HB2	2.25	0.64
52:BW:36:ARG:HG3	52:BW:72:GLY:CA	2.27	0.64
53:BX:51:GLU:O	53:BX:55:ILE:HG13	1.98	0.64
55:CA:255:LEU:O	55:CA:255:LEU:HD13	1.97	0.64
55:CA:258:LEU:HD22	55:CA:260:LEU:HD11	1.79	0.64
55:CA:306:THR:OG1	55:CA:307:VAL:N	2.24	0.64
55:CA:491:ASN:ND2	55:CA:536:ASN:HA	2.01	0.64
55:CA:566:GLU:HG2	55:CA:567:GLN:N	2.13	0.64
1:AA:35:G:C4	1:AA:454:A:C2	2.86	0.64
1:AA:199:A:C5	1:AA:2433:A:C2	2.84	0.64
1:AA:216:A:H61	1:AA:431:U:H3	1.46	0.64
1:AA:247:G:N2	1:AA:249:C:O2'	2.31	0.64
1:AA:266:G:N2	1:AA:427:U:H3	1.94	0.64
1:AA:388:G:H1'	1:AA:390:A:H62	1.62	0.64
1:AA:503:A:C4	1:AA:505:A:N7	2.66	0.64
1:AA:532:A:H4'	18:AR:28:ARG:NH1	2.12	0.64
1:AA:702:G:N2	1:AA:731:C:C2	2.66	0.64
1:AA:865:C:N4	1:AA:909:A:N6	2.37	0.64
1:AA:960:A:C2	1:AA:962:G:C1'	2.81	0.64
1:AA:1083:U:H1'	1:AA:1085:A:N6	2.12	0.64
1:AA:1299:G:N1	1:AA:1639:U:H3'	2.13	0.64
1:AA:1315:C:O2	1:AA:1392:A:H2	1.81	0.64
1:AA:1434:A:H61	1:AA:1558:A:H61	1.45	0.64
1:AA:1698:A:HO2'	1:AA:1699:G:C3'	2.09	0.64
1:AA:2114:A:N3	1:AA:2168:G:H5'	2.12	0.64
1:AA:2647:U:O2'	1:AA:2648:C:O5'	2.15	0.64
2:AB:74:U:H2'	2:AB:75:G:H1'	1.80	0.64
3:AC:75:LEU:HD11	3:AC:99:ILE:CG2	2.26	0.64
3:AC:77:ILE:CD1	3:AC:123:VAL:HG13	2.27	0.64
5:AE:5:LEU:HG	5:AE:25:VAL:HG13	1.80	0.64
5:AE:33:VAL:HG21	5:AE:77:ILE:HD11	1.79	0.64
5:AE:104:VAL:CG2	5:AE:198:VAL:HG22	2.26	0.64
5:AE:104:VAL:CG1	5:AE:105:THR:N	2.61	0.64
5:AE:119:ARG:HH21	5:AE:120:TRP:HA	1.62	0.64
5:AE:128:SER:O	5:AE:130:GLY:N	2.31	0.64
5:AE:131:ALA:HB1	5:AE:134:ILE:CG1	2.28	0.64
6:AF:74:ARG:O	6:AF:75:HIS:HB2	1.98	0.64
7:AG:16:ARG:HD2	7:AG:20:ILE:CG1	2.25	0.64
7:AG:19:LEU:HD12	7:AG:19:LEU:N	2.13	0.64
7:AG:77:ILE:HG13	7:AG:78:SER:N	2.10	0.64
7:AG:181:ARG:H	7:AG:181:ARG:HH11	1.44	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:105:LEU:HD12	8:AH:113:VAL:HG11	1.79	0.64
8:AH:169:VAL:O	8:AH:169:VAL:HG23	1.97	0.64
10:AJ:66:THR:O	10:AJ:67:PHE:HB2	1.96	0.64
11:AK:15:LEU:N	11:AK:15:LEU:HD23	2.13	0.64
11:AK:89:LYS:HA	11:AK:92:ALA:CB	2.27	0.64
11:AK:128:HIS:O	11:AK:131:GLN:CB	2.45	0.64
12:AL:96:THR:HA	12:AL:117:LEU:CD1	2.17	0.64
12:AL:103:ALA:HB1	12:AL:107:ARG:HD2	1.79	0.64
13:AM:52:GLU:O	13:AM:55:ARG:HB2	1.98	0.64
14:AN:75:THR:HB	14:AN:77:LYS:HE3	1.79	0.64
14:AN:85:LYS:NZ	24:AX:10:THR:HG21	2.12	0.64
17:AQ:6:LEU:HD21	17:AQ:7:ILE:HG23	1.78	0.64
17:AQ:39:ARG:HD3	34:BA:345:C:O5'	1.97	0.64
17:AQ:53:ARG:HH22	17:AQ:102:ILE:N	1.95	0.64
19:AS:5:VAL:CG1	19:AS:38:LEU:O	2.46	0.64
20:AT:10:VAL:HB	20:AT:12:ILE:HD11	1.78	0.64
20:AT:34:ASN:ND2	20:AT:37:ARG:HH21	1.95	0.64
22:AV:74:PRO:HG2	22:AV:100:ALA:HB3	1.79	0.64
23:AW:59:LEU:HD23	23:AW:59:LEU:C	2.22	0.64
23:AW:110:GLY:HA2	23:AW:144:LEU:HB2	1.78	0.64
24:AX:28:GLY:O	24:AX:29:GLN:O	2.15	0.64
24:AX:56:ASP:C	24:AX:57:PHE:HD1	2.06	0.64
25:AY:27:LEU:CG	25:AY:48:LEU:HB3	2.28	0.64
25:AY:48:LEU:HD12	25:AY:51:GLN:NE2	2.12	0.64
32:Af:4:ARG:O	32:Af:5:ALA:CB	2.46	0.64
34:BA:22:G:C2'	34:BA:23:C:H6	2.05	0.64
34:BA:59:A:H4'	34:BA:388:G:H5''	1.80	0.64
34:BA:138:G:N2	34:BA:226:G:H1'	2.12	0.64
34:BA:192:U:H2'	34:BA:193:C:H6	1.59	0.64
34:BA:568:G:N2	34:BA:574:A:H2	1.95	0.64
34:BA:667:G:H4'	48:BS:51:HIS:ND1	2.12	0.64
34:BA:740:U:H2'	34:BA:741:G:H8	1.63	0.64
34:BA:809:G:H2'	34:BA:810:C:H5'	1.79	0.64
34:BA:1371:G:P	42:BM:11:LYS:HE3	2.38	0.64
34:BA:1413:A:C2	34:BA:1488:G:C4	2.85	0.64
35:BF:58:ILE:O	35:BF:61:LEU:HD22	1.98	0.64
35:BF:115:LEU:HA	35:BF:118:LEU:HD12	1.80	0.64
36:BG:132:ARG:HB3	36:BG:136:GLN:NE2	2.13	0.64
36:BG:134:ILE:HD11	36:BG:153:VAL:HG11	1.79	0.64
36:BG:191:THR:O	36:BG:193:TYR:N	2.31	0.64
37:BH:108:LEU:O	37:BH:110:PHE:N	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:17:ALA:HA	38:BI:26:PHE:CB	2.27	0.64
39:BJ:4:TYR:CZ	39:BJ:72:VAL:HG11	2.33	0.64
40:BK:38:LEU:HA	40:BK:41:ARG:HB2	1.80	0.64
41:BL:126:LYS:HE3	41:BL:127:LEU:HB2	1.80	0.64
43:BN:8:LEU:HD13	43:BN:94:VAL:CG1	2.22	0.64
43:BN:85:LEU:HD12	43:BN:85:LEU:N	2.13	0.64
45:BP:53:ARG:CZ	45:BP:93:LEU:HD22	2.28	0.64
46:BQ:5:ALA:CB	46:BQ:67:GLU:CG	2.31	0.64
47:BR:40:CYS:O	47:BR:44:LEU:CB	2.45	0.64
49:BT:19:ILE:HB	49:BT:37:GLY:C	2.23	0.64
50:BU:3:LYS:HD3	50:BU:61:GLU:O	1.97	0.64
51:BV:69:THR:O	51:BV:70:ILE:C	2.39	0.64
52:BW:5:LEU:CD2	52:BW:6:LYS:H	2.10	0.64
52:BW:9:VAL:CA	52:BW:41:VAL:CG2	2.75	0.64
54:BY:5:ASP:O	54:BY:7:ARG:HG2	1.97	0.64
55:CA:207:MET:HE1	55:CA:224:GLY:CA	2.24	0.64
55:CA:212:LEU:HD11	55:CA:220:VAL:HG12	1.78	0.64
55:CA:236:GLN:HG3	55:CA:246:THR:O	1.92	0.64
55:CA:318:PHE:CB	55:CA:321:LYS:HE3	2.27	0.64
1:AA:161:U:C2	1:AA:164:U:N3	2.64	0.64
1:AA:223:A:C5	1:AA:408:G:H1'	2.33	0.64
1:AA:364:C:C2	1:AA:365:C:C4	2.86	0.64
1:AA:515:A:C5'	18:AR:32:PHE:HZ	2.11	0.64
1:AA:541:C:C2	1:AA:542:C:C5	2.86	0.64
1:AA:558:G:H5'	11:AK:112:LEU:HG	1.80	0.64
1:AA:563:G:N2	18:AR:34:LYS:CE	2.60	0.64
1:AA:722:A:H2'	1:AA:723:G:C8	2.27	0.64
1:AA:735:A:H2'	1:AA:736:C:H5'	1.78	0.64
1:AA:792:G:H21	1:AA:2072:G:C1'	2.10	0.64
1:AA:826:U:C5'	1:AA:2428:G:O3'	2.43	0.64
1:AA:944:G:C5'	1:AA:945:A:H5''	2.24	0.64
1:AA:1392:A:C6	1:AA:1393:A:N6	2.66	0.64
1:AA:1416:G:H1'	1:AA:1583:A:N1	2.12	0.64
1:AA:1492:G:N3	1:AA:1493:C:N3	2.45	0.64
1:AA:1546:C:H4'	1:AA:1547:C:C5	2.33	0.64
1:AA:1558:A:H2	1:AA:1560:G:N9	1.96	0.64
1:AA:1603:A:C2	1:AA:1604:C:C4	2.86	0.64
1:AA:1784:A:H4'	1:AA:1785:A:N9	2.13	0.64
1:AA:1824:G:C2	1:AA:1825:A:H1'	2.32	0.64
1:AA:2157:G:OP2	1:AA:2157:G:N2	2.30	0.64
1:AA:2320:A:H1'	1:AA:2333:A:C6	2.33	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2459:A:OP2	1:AA:2460:U:C5	2.51	0.64
1:AA:2469:A:H61	1:AA:2481:G:H1'	1.62	0.64
1:AA:2682:U:H2'	1:AA:2683:C:O5'	1.98	0.64
2:AB:95:U:H2'	2:AB:96:G:H8	1.63	0.64
3:AC:7:TYR:CD1	3:AC:10:LEU:HB3	2.32	0.64
3:AC:23:ASP:OD1	3:AC:183:GLU:HA	1.96	0.64
3:AC:45:ALA:HB1	3:AC:211:SER:O	1.98	0.64
3:AC:64:LEU:HD12	3:AC:161:ILE:HG12	1.79	0.64
3:AC:83:ILE:HG23	3:AC:87:GLU:OE2	1.98	0.64
3:AC:104:LEU:HD11	3:AC:126:LYS:O	1.97	0.64
4:AD:5:LYS:CD	4:AD:81:ALA:HB1	2.28	0.64
4:AD:14:ARG:HB3	4:AD:15:PHE:CD2	2.33	0.64
4:AD:77:ALA:HB1	4:AD:95:LEU:HD11	1.79	0.64
4:AD:121:PRO:O	4:AD:122:ASP:HB3	1.97	0.64
4:AD:134:ARG:HA	4:AD:168:ARG:CZ	2.27	0.64
4:AD:159:ALA:HB3	4:AD:202:LYS:HZ1	1.62	0.64
4:AD:214:TRP:O	4:AD:217:ARG:N	2.31	0.64
4:AD:246:PRO:HG3	4:AD:252:TRP:HA	1.79	0.64
4:AD:247:ALA:O	4:AD:248:SER:C	2.40	0.64
6:AF:201:VAL:O	6:AF:205:ARG:HG3	1.98	0.64
7:AG:78:SER:HB2	7:AG:82:LEU:HB3	1.78	0.64
11:AK:15:LEU:HD21	11:AK:137:LYS:CB	2.26	0.64
11:AK:37:LYS:HA	11:AK:42:TRP:CB	2.28	0.64
11:AK:89:LYS:HA	11:AK:92:ALA:HB3	1.79	0.64
13:AM:49:ARG:HA	13:AM:52:GLU:HG2	1.80	0.64
16:AP:11:LYS:CD	16:AP:11:LYS:N	2.59	0.64
18:AR:50:ARG:HB2	18:AR:50:ARG:CZ	2.27	0.64
18:AR:108:GLU:C	18:AR:110:VAL:N	2.42	0.64
18:AR:108:GLU:CD	18:AR:109:LEU:N	2.55	0.64
19:AS:65:GLY:N	19:AS:97:LYS:HZ1	1.96	0.64
19:AS:69:LYS:HE2	19:AS:70:ILE:HD11	1.79	0.64
19:AS:72:VAL:HG12	19:AS:73:SER:H	1.61	0.64
21:AU:7:VAL:HG21	25:AY:31:ARG:HH12	1.59	0.64
22:AV:42:VAL:O	22:AV:61:ILE:HD13	1.97	0.64
22:AV:108:THR:HG22	22:AV:109:GLU:OE1	1.97	0.64
23:AW:18:LEU:HD22	23:AW:23:LYS:CG	2.28	0.64
27:Aa:53:GLU:HG2	27:Aa:54:GLY:N	2.12	0.64
28:Ab:35:GLU:CB	28:Ab:49:CYS:HB3	2.28	0.64
28:Ab:44:THR:C	28:Ab:52:TYR:OH	2.41	0.64
32:Af:29:ASN:HB3	32:Af:32:HIS:CE1	2.32	0.64
34:BA:187:C:O2	34:BA:191(A):G:C6	2.50	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:236:G:C4	34:BA:237:C:C5	2.86	0.64
34:BA:392:G:H5'	49:BT:12:LYS:HZ3	1.61	0.64
34:BA:518:C:C5	34:BA:530:G:C5	2.85	0.64
34:BA:523:A:O5'	34:BA:523:A:H8	1.81	0.64
34:BA:992:U:H4'	34:BA:993:G:O5'	1.98	0.64
34:BA:1057:G:H2'	34:BA:1058:G:C8	2.32	0.64
34:BA:1239:A:H62	34:BA:1299:A:H61	1.43	0.64
34:BA:1285:A:O2'	34:BA:1286:A:OP2	2.14	0.64
34:BA:1302:U:H5	46:BQ:13:LYS:HZ3	1.46	0.64
35:BF:78:GLN:HE22	35:BF:96:ARG:HH22	1.43	0.64
35:BF:171:ALA:O	35:BF:174:VAL:N	2.30	0.64
36:BG:11:ARG:HD3	36:BG:15:THR:CG2	2.26	0.64
36:BG:24:ALA:HB1	36:BG:28:GLN:HE22	1.63	0.64
36:BG:38:ARG:CG	36:BG:94:LEU:HD21	2.27	0.64
36:BG:82:GLU:O	36:BG:85:ARG:HB3	1.97	0.64
37:BH:59:ARG:C	37:BH:63:LYS:NZ	2.53	0.64
39:BJ:85:VAL:CG1	39:BJ:88:VAL:HG13	2.28	0.64
40:BK:69:VAL:HB	40:BK:104:LEU:HD11	1.80	0.64
41:BL:37:ARG:HD3	41:BL:41:ARG:CG	2.16	0.64
41:BL:38:ILE:HD11	41:BL:118:VAL:HB	1.79	0.64
45:BP:80:HIS:CB	55:CA:327:THR:HA	2.26	0.64
46:BQ:70:LEU:HD12	46:BQ:70:LEU:C	2.22	0.64
51:BV:74:ARG:HD2	51:BV:74:ARG:H	1.62	0.64
55:CA:150:ASN:ND2	55:CA:150:ASN:H	1.95	0.64
55:CA:205:PHE:HA	55:CA:228:ARG:C	2.21	0.64
55:CA:468:THR:HG23	55:CA:469:PHE:N	2.10	0.64
55:CA:497:VAL:CA	55:CA:514:HIS:HE1	1.95	0.64
1:AA:10:G:C2	1:AA:2629:A:C2	2.86	0.64
1:AA:283:A:O2'	1:AA:284:U:H5'	1.98	0.64
1:AA:412:A:N6	1:AA:2411:A:H1'	2.12	0.64
1:AA:465:G:C5	1:AA:466:A:N7	2.65	0.64
1:AA:565:C:O3'	1:AA:1253:A:H2	1.80	0.64
1:AA:582:G:H2'	1:AA:583:G:C8	2.32	0.64
1:AA:975:G:C2	1:AA:976:C:H6	2.16	0.64
1:AA:1001:A:N7	1:AA:1002:G:C4	2.66	0.64
1:AA:1059:G:C4'	10:AJ:74:ALA:N	2.56	0.64
1:AA:1059:G:H1'	10:AJ:75:SER:H	1.58	0.64
1:AA:1083:U:C2'	1:AA:1084:A:H5''	2.28	0.64
1:AA:1084:A:N7	1:AA:1085:A:N1	2.45	0.64
1:AA:1204:A:OP2	1:AA:1204:A:C1'	2.46	0.64
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.61	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1543:A:O5'	1:AA:1544:C:H5''	1.97	0.64
1:AA:1639:U:H2'	1:AA:1640:C:C5'	2.28	0.64
1:AA:1681:G:N1	1:AA:1762:A:N7	2.45	0.64
1:AA:1791:A:O3'	4:AD:206:LEU:HD21	1.97	0.64
1:AA:1834:U:C1'	1:AA:1969:A:C2	2.80	0.64
1:AA:1858:G:O6	1:AA:1883:G:C6	2.51	0.64
1:AA:1909:C:N3	1:AA:1922:G:O6	2.31	0.64
1:AA:1931:U:H2'	1:AA:1932:A:O5'	1.98	0.64
1:AA:2063:C:C2	1:AA:2450:A:N6	2.66	0.64
1:AA:2122:U:C4'	3:AC:166:ASP:HB2	2.27	0.64
1:AA:2261:C:OP1	24:AX:17:GLN:HB2	1.98	0.64
1:AA:2356:C:O2'	24:AX:20:ARG:NE	2.27	0.64
1:AA:2519:U:C5'	1:AA:2520:C:OP1	2.46	0.64
1:AA:2531:A:H2'	1:AA:2532:G:O5'	1.97	0.64
1:AA:2629:A:C5'	1:AA:2895:U:N1	2.56	0.64
1:AA:2720:U:H3'	1:AA:2721:A:C8	2.33	0.64
1:AA:2755:C:H4'	1:AA:2756:U:C6	2.33	0.64
2:AB:30:C:H2'	2:AB:31:C:C5'	2.28	0.64
2:AB:82:G:H2'	2:AB:83:G:C8	2.32	0.64
3:AC:41:VAL:CG2	3:AC:216:THR:HG22	2.26	0.64
3:AC:52:ARG:HG3	3:AC:53:ARG:HG3	1.78	0.64
3:AC:130:ILE:N	3:AC:130:ILE:CD1	2.61	0.64
3:AC:194:ARG:HG3	3:AC:194:ARG:HH11	1.63	0.64
5:AE:102:VAL:HG22	5:AE:103:ASP:N	2.12	0.64
6:AF:139:PHE:CE2	6:AF:167:ALA:HA	2.32	0.64
6:AF:153:SER:H	6:AF:190:GLU:HG3	1.62	0.64
6:AF:183:VAL:CA	6:AF:186:ILE:HD12	2.25	0.64
8:AH:85:LYS:HZ1	8:AH:141:VAL:HG12	1.62	0.64
8:AH:149:ARG:HA	8:AH:162:ILE:CG2	2.28	0.64
11:AK:38:HIS:C	11:AK:42:TRP:CE3	2.76	0.64
11:AK:60:ILE:HG22	11:AK:61:ARG:N	2.13	0.64
11:AK:93:THR:O	11:AK:94:HIS:HD2	1.81	0.64
12:AL:18:LYS:NZ	12:AL:44:LYS:NZ	2.44	0.64
15:AO:17:ARG:CG	15:AO:18:LEU:N	2.60	0.64
15:AO:97:VAL:O	15:AO:98:LEU:HD23	1.97	0.64
17:AQ:4:GLY:O	17:AQ:8:LYS:CG	2.46	0.64
18:AR:93:LYS:H	19:AS:10:LYS:NZ	1.83	0.64
19:AS:14:VAL:HG21	19:AS:21:ARG:HH22	1.62	0.64
19:AS:22:VAL:CG1	19:AS:23:GLU:N	2.61	0.64
19:AS:83:ARG:HD3	19:AS:84:LYS:N	2.12	0.64
20:AT:13:SER:O	20:AT:17:VAL:HG22	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:25:ARG:HD3	20:AT:74:ALA:CB	2.26	0.64
24:AX:31:VAL:CG1	24:AX:67:VAL:HG22	2.28	0.64
27:Aa:5:ILE:HD13	27:Aa:60:GLN:CD	2.23	0.64
29:Ac:11:LEU:HD22	31:Ae:35:GLN:CD	2.22	0.64
34:BA:51:A:H4'	34:BA:52:G:C5'	2.27	0.64
34:BA:328:C:O2'	34:BA:329:A:P	2.55	0.64
34:BA:528:C:H42	45:BP:49:ASN:HD21	1.43	0.64
34:BA:981:U:O5'	34:BA:981:U:C6	2.51	0.64
34:BA:983:A:N3	34:BA:983:A:C3'	2.60	0.64
34:BA:1485:U:HO2'	34:BA:1486:G:H8	1.45	0.64
34:BA:1486:G:C3'	34:BA:1487:G:H5''	2.28	0.64
35:BF:78:GLN:HE22	35:BF:96:ARG:NH2	1.96	0.64
35:BF:101:MET:HB3	35:BF:108:ILE:HG13	1.80	0.64
35:BF:130:ARG:HD3	35:BF:131:PRO:CD	2.27	0.64
35:BF:169:LYS:HE2	35:BF:170:GLU:CA	2.28	0.64
35:BF:208:ILE:CD1	35:BF:239:VAL:HG11	2.27	0.64
35:BF:224:GLN:HG2	35:BF:229:VAL:CG2	2.27	0.64
36:BG:29:TYR:HB3	47:BR:36:PHE:HE1	1.63	0.64
36:BG:157:ILE:HG13	36:BG:164:ARG:HG2	1.80	0.64
39:BJ:53:ALA:CB	39:BJ:86:ARG:HD2	2.28	0.64
40:BK:135:VAL:HG12	40:BK:139:GLU:OE2	1.98	0.64
43:BN:39:PRO:HA	43:BN:70:ARG:HH11	1.63	0.64
43:BN:79:ARG:CZ	43:BN:82:ILE:HB	2.28	0.64
46:BQ:37:THR:O	46:BQ:55:ARG:NH2	2.30	0.64
47:BR:16:PHE:HE1	52:BW:14:HIS:HE2	0.67	0.64
48:BS:39:LEU:HD23	48:BS:39:LEU:C	2.22	0.64
52:BW:40:ILE:HG12	52:BW:71:LEU:CD2	2.28	0.64
55:CA:205:PHE:CE2	55:CA:207:MET:HB2	2.32	0.64
55:CA:220:VAL:HB	55:CA:274:VAL:HG23	1.80	0.64
55:CA:322:GLU:CG	55:CA:582:PRO:HD2	2.28	0.64
55:CA:493:GLN:CA	55:CA:519:TYR:HA	2.28	0.64
1:AA:72:U:H2'	1:AA:73:A:OP1	1.97	0.64
1:AA:85:G:N3	1:AA:103:A:C2	2.65	0.64
1:AA:201:C:H2'	1:AA:202:U:C5'	2.28	0.64
1:AA:292:C:C6	1:AA:293:U:C4	2.86	0.64
1:AA:421:U:OP2	1:AA:421:U:H6	1.80	0.64
1:AA:476:G:C4	1:AA:478:A:OP2	2.51	0.64
1:AA:627:A:C2'	1:AA:628:G:O4'	2.41	0.64
1:AA:673:C:H5''	6:AF:81:PRO:CG	2.27	0.64
1:AA:720:C:H2'	1:AA:721:C:C6	2.33	0.64
1:AA:955:C:C2'	1:AA:956:G:O5'	2.46	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:970:C:O2'	1:AA:984:A:O2'	2.12	0.64
1:AA:1047:G:H1'	1:AA:1111:A:C2	2.33	0.64
1:AA:1050:A:O2'	1:AA:1051:G:H5'	1.94	0.64
1:AA:1058:G:N1	1:AA:1059:G:N7	2.46	0.64
1:AA:1407:C:H2'	1:AA:1408:C:C6	2.33	0.64
1:AA:1792:G:H2'	1:AA:1792:G:N3	2.12	0.64
1:AA:1878:G:H2'	1:AA:1879:C:C6	2.33	0.64
1:AA:1975:G:O2'	1:AA:1976:U:H5'	1.97	0.64
1:AA:1977:A:C2	1:AA:1978:A:C4	2.86	0.64
1:AA:2025:C:C2'	1:AA:2026:C:C6	2.76	0.64
1:AA:2094:G:C2	1:AA:2196:C:C2	2.86	0.64
1:AA:2225:A:H5'	1:AA:2226:C:C6	2.33	0.64
1:AA:2371:G:C2	1:AA:2372:G:C5	2.86	0.64
1:AA:2467:C:O2	14:AN:124:LYS:HD3	1.98	0.64
1:AA:2491:U:C6	1:AA:2492:U:P	2.90	0.64
1:AA:2538:C:C2	1:AA:2539:C:C5	2.86	0.64
1:AA:2690:C:H2'	1:AA:2691:C:OP2	1.98	0.64
1:AA:2700:C:C3'	1:AA:2701:C:H5''	2.28	0.64
1:AA:2716:U:O2'	1:AA:2717:G:O5'	2.15	0.64
1:AA:2882:A:C5'	15:AO:98:LEU:HD21	2.27	0.64
4:AD:39:LYS:HD2	4:AD:39:LYS:N	2.13	0.64
4:AD:74:GLY:O	4:AD:118:VAL:HG11	1.98	0.64
4:AD:214:TRP:CH2	4:AD:219:PRO:HB3	2.32	0.64
5:AE:50:GLY:H	5:AE:76:ARG:CG	2.10	0.64
6:AF:196:LEU:HB3	6:AF:199:TRP:CD1	2.33	0.64
7:AG:49:ASP:N	7:AG:53:LEU:HD13	2.12	0.64
7:AG:75:LYS:HB3	7:AG:84:LYS:CA	2.27	0.64
7:AG:131:TYR:CD1	7:AG:158:ALA:HA	2.32	0.64
8:AH:20:ALA:CB	8:AH:21:PRO:CD	2.76	0.64
8:AH:84:SER:HA	8:AH:134:SER:CA	2.25	0.64
11:AK:7:LYS:HE2	11:AK:39:ARG:HH22	1.61	0.64
11:AK:16:ILE:HD12	11:AK:16:ILE:H	1.63	0.64
11:AK:87:LEU:CA	11:AK:90:MET:HB2	2.28	0.64
12:AL:3:GLN:CD	12:AL:33:ALA:HB3	2.20	0.64
12:AL:97:ARG:HD3	12:AL:118:ALA:HB2	1.78	0.64
14:AN:44:ALA:HB2	14:AN:93:TYR:O	1.98	0.64
14:AN:90:VAL:C	14:AN:91:GLU:CD	2.66	0.64
14:AN:137:TYR:O	14:AN:138:ASP:CB	2.46	0.64
17:AQ:54:ARG:C	17:AQ:55:ASN:OD1	2.41	0.64
19:AS:40:LEU:CG	19:AS:55:ALA:N	2.52	0.64
22:AV:26:LYS:O	22:AV:27:VAL:HG23	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:42:VAL:HG23	22:AV:61:ILE:HG21	1.79	0.64
22:AV:47:LYS:HB2	22:AV:49:VAL:HG13	1.79	0.64
23:AW:30:ASN:O	23:AW:31:ARG:C	2.40	0.64
25:AY:41:GLN:O	25:AY:42:ASN:C	2.40	0.64
25:AY:65:GLN:HE21	25:AY:65:GLN:CA	2.11	0.64
26:AZ:22:ALA:O	26:AZ:25:ALA:HB3	1.98	0.64
28:Ab:10:LYS:CD	28:Ab:15:ARG:NH2	2.61	0.64
32:Af:25:VAL:HB	32:Af:34:GLN:CB	2.22	0.64
34:BA:127:G:C2'	34:BA:128:G:H5'	2.28	0.64
34:BA:350:G:N2	34:BA:351:G:C2	2.66	0.64
34:BA:376:G:H5''	49:BT:5:ARG:HD2	1.80	0.64
34:BA:378:G:H2'	34:BA:379:C:C6	2.33	0.64
34:BA:434:U:H2'	34:BA:435:C:H6	1.60	0.64
34:BA:449:C:C2'	34:BA:450:G:O4'	2.44	0.64
34:BA:707:C:H4'	44:BO:20:TYR:CD2	2.32	0.64
34:BA:738:C:H2'	34:BA:739:C:C6	2.33	0.64
34:BA:959:A:H1'	34:BA:985:C:C1'	2.27	0.64
34:BA:1003:G:C4	34:BA:1004:A:H1'	2.32	0.64
34:BA:1165:C:H2'	34:BA:1166:G:C8	2.32	0.64
34:BA:1202:G:N2	34:BA:1203:C:C1'	2.61	0.64
34:BA:1208:C:H2'	34:BA:1209:C:C6	2.33	0.64
34:BA:1256:A:O2'	34:BA:1257:U:H1'	1.97	0.64
34:BA:1520:G:C2'	34:BA:1521:G:H8	2.11	0.64
34:BA:1526:G:H2'	34:BA:1527:C:C5	2.31	0.64
35:BF:87:ARG:C	35:BF:89:GLY:H	2.05	0.64
36:BG:30:ARG:CG	36:BG:31:HIS:H	2.09	0.64
38:BI:76:ILE:HG22	38:BI:78:HIS:CD2	2.33	0.64
39:BJ:79:LEU:O	39:BJ:80:ARG:C	2.40	0.64
41:BL:32:LYS:CG	41:BL:33:GLU:N	2.61	0.64
41:BL:79:VAL:HB	41:BL:80:ILE:HD12	1.80	0.64
43:BN:48:THR:HG23	43:BN:61:GLU:O	1.98	0.64
49:BT:14:ASN:HA	49:BT:42:ARG:NH1	2.12	0.64
49:BT:75:ARG:HA	49:BT:80:PHE:HB2	1.79	0.64
52:BW:11:VAL:HB	52:BW:16:LEU:N	2.13	0.64
52:BW:20:LEU:HG	52:BW:21:GLU:H	1.62	0.64
55:CA:82:GLY:HA3	55:CA:361:ARG:CB	2.28	0.64
55:CA:85:VAL:HG12	55:CA:88:VAL:HB	1.79	0.64
55:CA:231:VAL:HG11	55:CA:273:ILE:HB	1.80	0.64
55:CA:298:PRO:HB2	55:CA:299:ALA:HA	1.80	0.64
55:CA:405:LEU:CG	55:CA:463:GLY:HA2	2.28	0.64
55:CA:500:ALA:O	55:CA:504:LEU:HD13	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:603:ALA:CB	55:CA:604:PRO:HD3	2.25	0.64
1:AA:231:C:C4	1:AA:232:G:N2	2.66	0.64
1:AA:242:G:C2'	1:AA:254:G:C6	2.81	0.64
1:AA:280:C:OP2	1:AA:280:C:C6	2.41	0.64
1:AA:324:A:C8	1:AA:340:A:H1'	2.33	0.64
1:AA:350:U:O2	1:AA:350:U:C2'	2.44	0.64
1:AA:514:A:H2	1:AA:515:A:C1'	2.11	0.64
1:AA:728:G:C5	1:AA:762:U:H2'	2.33	0.64
1:AA:1036:G:P	8:AH:59:ARG:HD3	2.38	0.64
1:AA:1241:A:N6	1:AA:1244:G:O6	2.31	0.64
1:AA:1572:A:O4'	1:AA:1572:A:OP1	2.16	0.64
1:AA:1759:A:H2'	1:AA:1760:A:O5'	1.98	0.64
1:AA:1908:C:O5'	1:AA:1908:C:H6	1.80	0.64
1:AA:1993:U:H6	1:AA:1993:U:H3'	1.61	0.64
1:AA:2039:C:H2'	1:AA:2040:C:C5	2.33	0.64
1:AA:2063:C:H2'	1:AA:2064:C:C4'	2.28	0.64
1:AA:2378:A:H2'	1:AA:2378:A:N3	2.13	0.64
1:AA:2466:C:OP1	32:Af:5:ALA:HB3	1.98	0.64
1:AA:2531:A:C2'	1:AA:2532:G:O5'	2.46	0.64
1:AA:2553:G:N2	1:AA:2554:U:C2'	2.61	0.64
1:AA:2626:C:H2'	1:AA:2627:G:C8	2.33	0.64
1:AA:2659:G:H8	1:AA:2659:G:O5'	1.81	0.64
1:AA:2747:G:O6	1:AA:2755:C:C5'	2.46	0.64
1:AA:2770:G:O5'	1:AA:2770:G:H8	1.79	0.64
1:AA:2809:A:H3'	1:AA:2809:A:P	2.37	0.64
1:AA:2851:A:H1'	15:AO:61:HIS:CD2	2.33	0.64
2:AB:47:C:H2'	2:AB:48:A:H5'	1.78	0.64
3:AC:64:LEU:HD13	3:AC:188:ASN:ND2	2.13	0.64
4:AD:53:PHE:O	4:AD:54:ARG:O	2.16	0.64
4:AD:223:GLY:C	4:AD:225:ALA:N	2.55	0.64
5:AE:8:LYS:HB3	5:AE:24:THR:CB	2.23	0.64
5:AE:13:ARG:HD2	5:AE:13:ARG:C	2.23	0.64
5:AE:59:VAL:HB	5:AE:62:PRO:CD	2.28	0.64
5:AE:103:ASP:C	5:AE:104:VAL:HG23	2.23	0.64
6:AF:82:ILE:CD1	6:AF:82:ILE:H	2.11	0.64
6:AF:121:GLY:HA3	6:AF:191:ARG:NE	2.11	0.64
7:AG:6:ALA:HA	7:AG:9:ARG:HH21	1.62	0.64
11:AK:88:GLU:HB2	11:AK:89:LYS:HE2	1.78	0.64
11:AK:91:LEU:O	11:AK:93:THR:N	2.31	0.64
12:AL:90:GLN:NE2	12:AL:110:GLY:O	2.31	0.64
13:AM:78:PRO:HG2	13:AM:117:GLU:CD	2.23	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:27:VAL:CG1	14:AN:104:PHE:HE2	2.11	0.64
16:AP:41:ASP:CG	16:AP:42:ASP:N	2.54	0.64
16:AP:97:ARG:HG3	16:AP:97:ARG:HH11	1.63	0.64
17:AQ:110:ILE:HA	34:BA:1432:G:P	2.38	0.64
18:AR:92:ARG:HA	18:AR:95:LEU:CG	2.28	0.64
18:AR:97:ASP:HB3	18:AR:101:ARG:CZ	2.28	0.64
18:AR:98:LEU:HD12	18:AR:105:VAL:CG2	2.19	0.64
20:AT:66:GLU:O	20:AT:69:LEU:HD13	1.97	0.64
22:AV:14:LEU:CB	22:AV:20:TYR:HA	2.20	0.64
22:AV:65:ALA:CB	22:AV:66:PRO:HD3	2.28	0.64
24:AX:31:VAL:CG2	24:AX:65:GLY:O	2.45	0.64
27:Aa:42:PHE:CG	27:Aa:43:TYR:N	2.65	0.64
30:Ad:43:THR:C	30:Ad:46:VAL:H	2.05	0.64
34:BA:80:G:N3	34:BA:81:G:H1'	2.13	0.64
34:BA:321:A:H4'	34:BA:1436:U:H5'	1.80	0.64
34:BA:817:C:C2'	34:BA:817:C:O2	2.45	0.64
34:BA:1005:A:H1'	34:BA:1036:G:N2	2.12	0.64
34:BA:1054:C:C2'	34:BA:1055:A:H5''	2.25	0.64
34:BA:1072:G:C6	34:BA:1073:U:C4	2.86	0.64
34:BA:1128:C:O2	34:BA:1146:A:N6	2.31	0.64
34:BA:1171:G:H2'	34:BA:1172:C:C6	2.32	0.64
34:BA:1227:A:O2'	46:BQ:115:LYS:HG2	1.98	0.64
34:BA:1255:G:N2	34:BA:1276:G:N2	2.45	0.64
34:BA:1261:A:H3'	34:BA:1262:C:C5	2.33	0.64
34:BA:1367:C:OP1	42:BM:115:GLY:HA2	1.97	0.64
34:BA:1449:C:C2	34:BA:1450:U:C6	2.86	0.64
34:BA:1455:G:C4'	53:BX:28:ALA:O	2.44	0.64
35:BF:219:VAL:O	35:BF:223:ILE:CG1	2.46	0.64
36:BG:8:ILE:HD13	47:BR:50:LYS:O	1.97	0.64
36:BG:12:LEU:HD21	47:BR:58:LYS:N	2.13	0.64
36:BG:124:ILE:CD1	36:BG:130:VAL:HG13	2.27	0.64
36:BG:142:MET:HG2	36:BG:170:GLN:HG3	1.80	0.64
36:BG:157:ILE:O	36:BG:158:GLY:C	2.41	0.64
37:BH:18:LYS:C	37:BH:20:TYR:H	2.06	0.64
37:BH:130:GLY:O	37:BH:131:ARG:C	2.40	0.64
37:BH:166:LYS:NZ	37:BH:178:VAL:O	2.21	0.64
38:BI:79:GLU:CB	38:BI:92:LYS:HA	2.22	0.64
38:BI:91:LEU:C	38:BI:91:LEU:CD2	2.68	0.64
39:BJ:14:LEU:HD13	39:BJ:15:ASP:N	2.13	0.64
39:BJ:76:ALA:O	39:BJ:80:ARG:HG3	1.98	0.64
41:BL:64:LYS:O	41:BL:79:VAL:HB	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:102:ARG:CZ	41:BL:102:ARG:CB	2.69	0.64
44:BO:21:ILE:HG22	44:BO:30:VAL:CG2	2.27	0.64
45:BP:97:ARG:HB3	45:BP:98:TYR:CE1	2.33	0.64
46:BQ:13:LYS:HB3	46:BQ:17:VAL:CB	2.28	0.64
46:BQ:16:ASP:CG	46:BQ:34:LEU:HD13	2.17	0.64
49:BT:6:LEU:CD2	49:BT:6:LEU:C	2.71	0.64
51:BV:52:PRO:HG2	51:BV:54:ARG:HB3	1.79	0.64
55:CA:3:GLU:O	55:CA:4:LYS:HE2	1.98	0.64
55:CA:21:LEU:CD1	55:CA:98:VAL:CG2	2.76	0.64
55:CA:85:VAL:CG1	55:CA:88:VAL:HG21	2.11	0.64
55:CA:160:PHE:H	55:CA:161:ALA:HB3	1.62	0.64
55:CA:228:ARG:CA	55:CA:267:LEU:HD12	2.28	0.64
55:CA:507:ARG:C	55:CA:528:SER:HG	2.06	0.64
1:AA:60:G:C8	1:AA:63:U:C4	2.86	0.63
1:AA:221:A:H3'	1:AA:221:A:C8	2.33	0.63
1:AA:355:G:C6	1:AA:356:G:C6	2.87	0.63
1:AA:502:A:H3'	1:AA:502:A:C8	2.32	0.63
1:AA:638:G:H3'	1:AA:638:G:H8	1.61	0.63
1:AA:821:A:N6	1:AA:972:G:O2'	2.31	0.63
1:AA:826:U:H5''	1:AA:2429:G:P	2.37	0.63
1:AA:872:A:O2'	14:AN:66:ILE:CG1	2.46	0.63
1:AA:988:A:H4'	1:AA:1155:A:C2	2.25	0.63
1:AA:1131:G:C4	11:AK:74:ARG:NE	2.66	0.63
1:AA:1161:C:H1'	19:AS:22:VAL:CG1	2.28	0.63
1:AA:1271:G:P	1:AA:1272:A:OP1	2.56	0.63
1:AA:1695:G:H1'	4:AD:15:PHE:HB3	1.80	0.63
1:AA:1956:U:C2'	1:AA:1957:C:C6	2.74	0.63
1:AA:1980:G:C5	1:AA:1982:C:C5	2.85	0.63
1:AA:2033:A:N6	1:AA:2036:C:N3	2.46	0.63
1:AA:2141:G:C6	1:AA:2151:G:C6	2.86	0.63
1:AA:2246:G:H2'	1:AA:2247:A:H8	1.62	0.63
1:AA:2286:A:OP2	29:Ac:27:LYS:HE2	1.97	0.63
1:AA:2291:U:H2'	1:AA:2292:C:H6	1.63	0.63
1:AA:2362:G:N2	1:AA:2363:C:H1'	2.13	0.63
1:AA:2532:G:O2'	1:AA:2533:A:H5'	1.98	0.63
1:AA:2625:G:H2'	1:AA:2626:C:C6	2.33	0.63
1:AA:2625:G:H3'	1:AA:2626:C:C5	2.33	0.63
1:AA:2720:U:C2	1:AA:2721:A:C8	2.87	0.63
2:AB:81:G:C6	2:AB:96:G:C6	2.86	0.63
3:AC:111:ASP:O	3:AC:136:LEU:HD23	1.98	0.63
3:AC:131:LEU:HD22	3:AC:136:LEU:O	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:162:GLU:C	3:AC:163:PHE:CD1	2.66	0.63
4:AD:65:ILE:HG22	4:AD:66:ASP:N	2.13	0.63
4:AD:135:PHE:O	4:AD:137:PRO:HD3	1.98	0.63
4:AD:143:HIS:C	4:AD:145:VAL:HG23	2.22	0.63
4:AD:151:LYS:HB2	4:AD:154:LYS:HE3	1.81	0.63
4:AD:232:PRO:HG2	4:AD:246:PRO:O	1.98	0.63
4:AD:234:GLY:N	4:AD:241:PRO:CG	2.60	0.63
5:AE:94:GLU:O	5:AE:95:ILE:C	2.40	0.63
7:AG:74:LYS:HE2	7:AG:75:LYS:HE3	1.80	0.63
8:AH:122:THR:O	8:AH:133:VAL:HG23	1.97	0.63
10:AJ:42:ASN:O	10:AJ:46:ALA:HB2	1.96	0.63
11:AK:15:LEU:HD11	11:AK:137:LYS:HB3	1.80	0.63
12:AL:85:VAL:HB	12:AL:93:PRO:HG3	1.79	0.63
14:AN:42:ILE:HG12	14:AN:126:PRO:HG3	1.80	0.63
14:AN:85:LYS:HG3	14:AN:87:LYS:H	1.60	0.63
15:AO:33:ARG:HH22	28:Ab:56:LYS:HB2	1.62	0.63
16:AP:13:ARG:CD	16:AP:90:GLY:O	2.46	0.63
18:AR:111:GLU:CA	18:AR:114:LYS:HE3	2.28	0.63
19:AS:28:GLU:HG2	19:AS:94:LEU:HB2	1.79	0.63
22:AV:7:VAL:HG22	22:AV:71:LYS:CG	2.28	0.63
22:AV:72:VAL:HG21	22:AV:81:LYS:HE2	1.79	0.63
23:AW:1:MET:HE3	23:AW:3:TYR:CD2	2.32	0.63
23:AW:27:VAL:HG21	23:AW:85:HIS:CE1	2.27	0.63
24:AX:59:LEU:HD22	24:AX:79:VAL:HG21	1.81	0.63
25:AY:50:ARG:O	25:AY:53:ALA:HB3	1.98	0.63
30:Ad:22:MET:HA	30:Ad:28:ARG:HG2	1.80	0.63
34:BA:111:G:H5''	34:BA:112:G:OP2	1.98	0.63
34:BA:562:C:O2'	45:BP:15:ARG:HB3	1.96	0.63
34:BA:585:G:N3	34:BA:879:C:H4'	2.13	0.63
34:BA:603:U:H2'	34:BA:604:G:H8	1.62	0.63
34:BA:735:C:HO2'	34:BA:736:C:H5'	1.62	0.63
34:BA:755:G:H2'	34:BA:756:C:C6	2.33	0.63
34:BA:1003:G:H8	34:BA:1003:G:O5'	1.81	0.63
34:BA:1004:A:O2'	34:BA:1005:A:O5'	2.16	0.63
34:BA:1117:G:C4	34:BA:1184:G:C4	2.86	0.63
34:BA:1202:G:H21	34:BA:1203:C:C1'	2.11	0.63
34:BA:1269:A:H2'	34:BA:1270:C:C4'	2.09	0.63
34:BA:1399:C:O2'	34:BA:1400:C:OP2	2.15	0.63
34:BA:1471:G:H2'	34:BA:1472:U:C6	2.33	0.63
35:BF:25:ASN:O	35:BF:27:LYS:N	2.31	0.63
38:BI:105:VAL:HG22	38:BI:132:ALA:HB2	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:45:ILE:HG13	41:BL:47:GLY:H	1.62	0.63
41:BL:126:LYS:CD	41:BL:127:LEU:N	2.61	0.63
44:BO:23:ALA:HB2	44:BO:28:THR:HG23	1.78	0.63
44:BO:62:GLN:O	44:BO:65:ALA:HB3	1.98	0.63
44:BO:78:GLN:O	44:BO:103:LEU:O	2.16	0.63
46:BQ:10:PRO:CG	46:BQ:45:VAL:HG13	2.21	0.63
46:BQ:66:LEU:HA	46:BQ:70:LEU:HB2	1.79	0.63
46:BQ:86:CYS:HA	52:BW:74:PHE:CG	2.33	0.63
46:BQ:100:GLY:HA3	46:BQ:101:GLN:CG	2.22	0.63
47:BR:24:CYS:HB3	47:BR:28:GLY:O	1.98	0.63
48:BS:36:ILE:CA	48:BS:59:MET:HE1	2.28	0.63
51:BV:63:GLN:HA	51:BV:66:LEU:HD11	1.79	0.63
52:BW:62:ILE:CD1	52:BW:67:VAL:HA	2.26	0.63
53:BX:13:LEU:C	53:BX:17:ARG:HH21	2.06	0.63
55:CA:10:ILE:HG12	55:CA:96:LEU:CB	2.28	0.63
1:AA:3:U:O4	1:AA:2900:A:N1	2.32	0.63
1:AA:76:C:O5'	1:AA:76:C:H6	1.81	0.63
1:AA:99:U:H5'	1:AA:101:G:C5'	2.28	0.63
1:AA:149:A:C6	1:AA:150:C:C4	2.86	0.63
1:AA:290:G:H3'	1:AA:290:G:C8	2.34	0.63
1:AA:399:G:C5	1:AA:400:G:H1'	2.33	0.63
1:AA:481:G:H1	1:AA:509:C:N4	1.95	0.63
1:AA:516:C:O5'	1:AA:516:C:H6	1.80	0.63
1:AA:556:G:H8	1:AA:556:G:O5'	1.82	0.63
1:AA:574:C:H4'	1:AA:575:A:O5'	1.98	0.63
1:AA:729:G:OP1	4:AD:13:ARG:NH1	2.30	0.63
1:AA:748:G:C5'	20:AT:88:ARG:NH2	2.59	0.63
1:AA:874:G:C2	1:AA:875:G:C5	2.86	0.63
1:AA:930:U:O2'	1:AA:931:G:P	2.55	0.63
1:AA:1195:G:C2'	1:AA:1226:G:H22	2.10	0.63
1:AA:1214:A:H62	1:AA:1236:G:N2	1.97	0.63
1:AA:1264:G:P	28:Ab:15:ARG:HH21	2.21	0.63
1:AA:1273:U:H5''	1:AA:1646:C:N4	2.13	0.63
1:AA:1351:C:H4'	1:AA:1571:A:O2'	1.98	0.63
1:AA:1602:U:H2'	1:AA:1603:A:C5'	2.29	0.63
1:AA:1665:A:O2'	12:AL:1:MET:HG3	1.98	0.63
1:AA:1689:A:N7	1:AA:1700:A:C5	2.67	0.63
1:AA:1697:G:C4'	1:AA:1698:A:H5'	2.28	0.63
1:AA:1798:U:H5''	4:AD:257:LEU:HB2	1.78	0.63
1:AA:1799:G:O2'	1:AA:1800:C:O5'	2.16	0.63
1:AA:1944:U:C1'	1:AA:1955:U:C6	2.78	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2009:G:C6	1:AA:2010:G:N7	2.66	0.63
1:AA:2020:A:N7	1:AA:2022:U:C4	2.66	0.63
1:AA:2332:U:O2'	1:AA:2336:A:N7	2.31	0.63
1:AA:2400:G:H2'	1:AA:2401:U:O4'	1.98	0.63
1:AA:2481:G:O2'	1:AA:2482:G:C5'	2.46	0.63
1:AA:2499:C:H2'	1:AA:2499:C:O2	1.98	0.63
1:AA:2533:A:H2'	1:AA:2534:A:C8	2.34	0.63
1:AA:2636:U:O5'	5:AE:79:ARG:HB3	1.99	0.63
1:AA:2777:G:H3'	1:AA:2777:G:C8	2.32	0.63
1:AA:2794:C:C2	1:AA:2799:A:C2	2.86	0.63
1:AA:2848:G:H22	1:AA:2867:G:C1'	2.00	0.63
3:AC:75:LEU:HB2	3:AC:110:PHE:CG	2.33	0.63
3:AC:189:ILE:HD13	3:AC:224:ILE:CD1	2.28	0.63
4:AD:107:ALA:H	4:AD:108:PRO:CD	2.09	0.63
4:AD:176:ARG:HH11	4:AD:176:ARG:CG	2.04	0.63
6:AF:12:LEU:O	6:AF:14:PRO:CD	2.46	0.63
6:AF:30:PRO:HA	6:AF:33:LEU:CD2	2.27	0.63
6:AF:56:GLU:O	6:AF:58:ALA:C	2.41	0.63
6:AF:106:ARG:HB2	6:AF:106:ARG:HH11	1.63	0.63
6:AF:152:GLU:O	6:AF:172:TRP:HA	1.98	0.63
6:AF:178:PRO:C	6:AF:180:GLY:N	2.50	0.63
8:AH:4:ILE:HD12	8:AH:4:ILE:N	2.12	0.63
10:AJ:12:LEU:HD13	10:AJ:23:VAL:HG21	1.80	0.63
10:AJ:23:VAL:CG1	10:AJ:37:PHE:CB	2.75	0.63
10:AJ:106:GLU:CA	10:AJ:109:LYS:HG3	2.29	0.63
11:AK:54:VAL:C	11:AK:130:HIS:CE1	2.77	0.63
12:AL:49:ARG:NH2	34:BA:1423:G:C5'	2.61	0.63
12:AL:70:LYS:CE	12:AL:103:ALA:HB3	2.29	0.63
15:AO:14:SER:HA	15:AO:17:ARG:HG2	1.81	0.63
15:AO:63:ARG:NH1	15:AO:80:PHE:CD2	2.67	0.63
16:AP:75:GLU:CA	16:AP:78:LEU:HB3	2.27	0.63
17:AQ:28:VAL:HG12	17:AQ:29:ARG:O	1.98	0.63
17:AQ:53:ARG:NH2	17:AQ:101:PHE:N	2.43	0.63
20:AT:27:LYS:HB3	20:AT:31:GLU:OE2	1.97	0.63
22:AV:1:MET:HG3	22:AV:67:LEU:HD22	1.80	0.63
22:AV:39:VAL:O	22:AV:40:GLU:HB2	1.97	0.63
27:Aa:42:PHE:N	27:Aa:58:ARG:HH11	1.96	0.63
29:Ac:45:LYS:O	29:Ac:46:HIS:HB3	1.98	0.63
30:Ad:1:MET:O	30:Ad:3:ARG:N	2.31	0.63
34:BA:307:C:N4	34:BA:308:C:C5	2.66	0.63
34:BA:394:G:C6	34:BA:395:C:N4	2.66	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:659:U:OP1	48:BS:9:GLN:NE2	2.31	0.63
34:BA:737:A:O2'	34:BA:738:C:H5'	1.97	0.63
34:BA:947:G:N3	34:BA:948:C:C6	2.67	0.63
34:BA:972:C:O2	43:BN:55:LYS:HE3	1.98	0.63
34:BA:978:A:H8	34:BA:980:C:H41	1.45	0.63
34:BA:989:C:H2'	34:BA:990:C:H5'	1.77	0.63
34:BA:1058:G:O2'	34:BA:1059:C:H5'	1.99	0.63
34:BA:1425:U:O2'	34:BA:1426:C:H5'	1.97	0.63
34:BA:1454:G:OP2	53:BX:39:LYS:CE	2.46	0.63
35:BF:97:TRP:NE1	35:BF:101:MET:SD	2.72	0.63
35:BF:170:GLU:O	35:BF:171:ALA:C	2.40	0.63
35:BF:208:ILE:HA	35:BF:211:ILE:CB	2.27	0.63
36:BG:47:LEU:HD11	36:BG:83:ARG:NH2	2.14	0.63
37:BH:11:LEU:CA	37:BH:14:ARG:HB3	2.26	0.63
39:BJ:45:LEU:HG	39:BJ:59:TYR:CD1	2.34	0.63
39:BJ:75:LEU:O	39:BJ:79:LEU:HG	1.97	0.63
40:BK:99:LEU:HD23	40:BK:102:ARG:HB3	1.80	0.63
41:BL:67:PRO:HD2	41:BL:77:GLU:H	1.62	0.63
43:BN:12:ASP:O	43:BN:15:THR:HG22	1.98	0.63
46:BQ:19:LEU:CD1	46:BQ:29:ARG:C	2.67	0.63
49:BT:35:LYS:O	49:BT:36:ILE:HG23	1.98	0.63
52:BW:3:ARG:HE	52:BW:45:VAL:CG1	2.11	0.63
55:CA:303:ASP:O	55:CA:305:PRO:HD3	1.98	0.63
55:CA:325:PHE:O	55:CA:378:PHE:CD1	2.51	0.63
55:CA:403:VAL:HG23	55:CA:466:TYR:O	1.96	0.63
1:AA:18:C:OP1	18:AR:26:GLY:CA	2.46	0.63
1:AA:354:G:O2'	1:AA:355:G:H5'	1.98	0.63
1:AA:563:G:N2	1:AA:578:A:N1	2.45	0.63
1:AA:638:G:H3'	1:AA:638:G:C8	2.33	0.63
1:AA:671:C:OP1	13:AM:38:GLN:O	2.14	0.63
1:AA:772:C:C2	1:AA:773:U:C5	2.87	0.63
1:AA:1005:C:C1'	1:AA:1012:U:O2	2.46	0.63
1:AA:1071:G:O2'	1:AA:1089:G:C8	2.35	0.63
1:AA:1074:G:H8	1:AA:1074:G:O5'	1.81	0.63
1:AA:1257:C:HO2'	6:AF:83:PHE:HD2	1.46	0.63
1:AA:1306:C:C2	1:AA:1307:A:C8	2.86	0.63
1:AA:1307:A:O2'	1:AA:1308:A:H5'	1.97	0.63
1:AA:1787:A:H2'	1:AA:1788:C:O4'	1.98	0.63
1:AA:2210:G:H4'	1:AA:2211:G:H5'	1.78	0.63
2:AB:8:U:C2	2:AB:9:G:C8	2.86	0.63
2:AB:31:C:H1'	2:AB:53:A:H61	1.63	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:10:LEU:HD13	3:AC:32:LEU:O	1.98	0.63
4:AD:125:ILE:CG2	4:AD:137:PRO:HG3	2.22	0.63
4:AD:148:GLU:O	4:AD:149:PRO:O	2.16	0.63
5:AE:58:ARG:NH1	5:AE:73:GLU:OE2	2.32	0.63
6:AF:43:LYS:HG3	6:AF:98:SER:HA	1.80	0.63
6:AF:65:TRP:CD2	6:AF:66:PRO:HD2	2.33	0.63
6:AF:162:LEU:HD22	6:AF:165:ARG:HH11	1.63	0.63
8:AH:74:ASN:O	8:AH:75:ALA:C	2.40	0.63
8:AH:119:GLU:C	8:AH:121:ILE:N	2.55	0.63
10:AJ:12:LEU:CD2	10:AJ:57:ILE:CG2	2.77	0.63
11:AK:7:LYS:HD3	11:AK:39:ARG:NH1	2.13	0.63
11:AK:107:LEU:HD13	11:AK:117:PHE:CZ	2.33	0.63
13:AM:35:HIS:O	13:AM:36:LYS:HD3	1.97	0.63
13:AM:132:LYS:HA	13:AM:135:LEU:HD13	1.79	0.63
14:AN:8:LYS:HZ3	14:AN:11:LYS:HZ3	1.46	0.63
14:AN:93:TYR:C	14:AN:94:VAL:HG12	2.23	0.63
15:AO:75:LEU:CD2	15:AO:78:LYS:HG2	2.28	0.63
16:AP:64:GLU:C	16:AP:66:ALA:N	2.49	0.63
16:AP:103:GLU:HA	16:AP:106:ARG:CB	2.28	0.63
18:AR:83:LEU:C	18:AR:86:ALA:HB3	2.22	0.63
20:AT:74:ALA:HB1	20:AT:105:VAL:HA	1.81	0.63
21:AU:11:PRO:HA	21:AU:28:PHE:HB3	1.79	0.63
22:AV:6:HIS:HB3	22:AV:71:LYS:HG2	1.79	0.63
22:AV:19:LYS:HB3	22:AV:21:LYS:HG2	1.81	0.63
22:AV:47:LYS:CB	22:AV:49:VAL:HG13	2.28	0.63
24:AX:65:GLY:CA	24:AX:81:VAL:HG12	2.25	0.63
24:AX:72:ARG:O	24:AX:73:GLY:C	2.39	0.63
27:Aa:23:GLU:C	27:Aa:25:TYR:N	2.54	0.63
27:Aa:28:LYS:HB3	27:Aa:29:PRO:CD	2.28	0.63
28:Ab:48:GLU:CA	28:Ab:58:LEU:HG	2.29	0.63
30:Ad:34:ARG:HH22	30:Ad:42:LEU:CG	2.11	0.63
34:BA:184:G:C4'	34:BA:224:C:H4'	2.28	0.63
34:BA:566:G:H4'	34:BA:567:G:H5'	1.81	0.63
34:BA:597:G:H2'	34:BA:598:U:H5'	1.79	0.63
34:BA:1154:G:H8	34:BA:1154:G:O5'	1.81	0.63
34:BA:1203:C:H2'	34:BA:1204:A:O4'	1.97	0.63
35:BF:7:VAL:HG23	35:BF:8:LYS:N	2.13	0.63
35:BF:52:GLU:CG	35:BF:53:ARG:N	2.62	0.63
35:BF:67:THR:CB	35:BF:155:LEU:HD21	2.28	0.63
35:BF:69:LEU:HD13	35:BF:70:PHE:N	2.12	0.63
36:BG:35:GLU:O	36:BG:38:ARG:HG2	1.97	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:24:GLU:C	37:BH:24:GLU:CD	2.66	0.63
37:BH:24:GLU:CD	37:BH:25:ARG:N	2.56	0.63
37:BH:128:VAL:CG2	37:BH:133:VAL:HB	2.29	0.63
37:BH:170:VAL:CG2	37:BH:176:LEU:HB3	2.28	0.63
38:BI:87:SER:HB3	38:BI:131:ILE:HG12	1.81	0.63
39:BJ:2:ARG:CZ	39:BJ:69:GLU:HG2	2.28	0.63
39:BJ:22:GLU:O	39:BJ:26:ILE:HG13	1.99	0.63
40:BK:67:GLU:HA	40:BK:67:GLU:OE2	1.97	0.63
40:BK:113:GLU:CB	40:BK:118:VAL:HG11	2.29	0.63
46:BQ:48:LEU:CD2	46:BQ:53:VAL:HG22	2.28	0.63
51:BV:27:GLY:O	51:BV:28:GLU:C	2.40	0.63
52:BW:36:ARG:NH2	52:BW:51:VAL:HG12	2.13	0.63
55:CA:81:PHE:C	55:CA:361:ARG:HB2	2.22	0.63
55:CA:111:PHE:HE1	55:CA:115:LYS:HG2	1.63	0.63
55:CA:139:TRP:CH2	55:CA:143:GLN:HG3	2.32	0.63
55:CA:172:ALA:CB	55:CA:176:HIS:H	2.10	0.63
55:CA:221:ILE:HG22	55:CA:223:ILE:HG13	1.79	0.63
55:CA:298:PRO:CB	55:CA:299:ALA:HA	2.27	0.63
1:AA:95:G:H4'	25:AY:39:LEU:C	2.24	0.63
1:AA:116:C:H1'	1:AA:127:A:H1'	1.80	0.63
1:AA:226:G:N2	1:AA:227:A:N3	2.47	0.63
1:AA:241:A:H2'	1:AA:242:G:H4'	1.79	0.63
1:AA:252:G:N3	1:AA:253:C:C6	2.67	0.63
1:AA:303:U:O2'	1:AA:304:G:H5'	1.98	0.63
1:AA:519:U:H6	1:AA:519:U:C5'	2.06	0.63
1:AA:581:C:H4'	18:AR:32:PHE:CZ	2.33	0.63
1:AA:592:G:H3'	1:AA:593:G:O4'	1.98	0.63
1:AA:715:G:N2	48:BS:53:HIS:HB2	2.14	0.63
1:AA:903:C:O2'	23:AW:169:GLU:OE2	2.15	0.63
1:AA:973:A:C1'	1:AA:1188:U:C4	2.81	0.63
1:AA:979:G:N7	1:AA:981:A:P	2.71	0.63
1:AA:1079:C:C2	10:AJ:129:GLY:O	2.50	0.63
1:AA:1081:U:H4'	10:AJ:125:ARG:CD	2.29	0.63
1:AA:1135:C:O2'	1:AA:1136:G:H5'	1.99	0.63
1:AA:1195:G:C2'	1:AA:1226:G:N2	2.61	0.63
1:AA:1336:A:H2'	1:AA:1337:G:C8	2.33	0.63
1:AA:1363:C:N4	27:Aa:2:LYS:CE	2.58	0.63
1:AA:1407:C:C6	1:AA:1407:C:OP2	2.50	0.63
1:AA:1424:G:C8	1:AA:1424:G:OP2	2.52	0.63
1:AA:1471:A:H2'	1:AA:1472:A:C5'	2.29	0.63
1:AA:1675:C:O2	1:AA:1676:A:O4'	2.17	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1820:U:H5	4:AD:159:ALA:C	2.06	0.63
1:AA:2043:C:C4	1:AA:2777:G:N3	2.67	0.63
1:AA:2098:U:H2'	1:AA:2099:U:C6	2.34	0.63
1:AA:2282:G:H5''	1:AA:2283:C:O5'	1.98	0.63
1:AA:2416:C:H5''	13:AM:59:LEU:CB	2.10	0.63
1:AA:2574:G:H2'	1:AA:2575:C:O4'	1.99	0.63
1:AA:2690:C:H6	1:AA:2690:C:C3'	2.09	0.63
1:AA:2758:A:N6	1:AA:2759:G:O6	2.30	0.63
1:AA:2797:U:H4'	1:AA:2798:C:O4'	1.97	0.63
2:AB:6:C:H4'	2:AB:28:C:H5'	1.81	0.63
2:AB:114:G:H1'	16:AP:38:GLN:HE22	1.63	0.63
3:AC:86:ALA:CB	3:AC:149:ILE:HG12	2.29	0.63
3:AC:102:LYS:NZ	3:AC:107:TRP:HB2	2.14	0.63
7:AG:17:PRO:CA	7:AG:20:ILE:HB	2.27	0.63
10:AJ:103:GLN:HA	10:AJ:106:GLU:HG3	1.80	0.63
13:AM:15:ARG:O	13:AM:17:LYS:NZ	2.32	0.63
16:AP:49:VAL:HG13	16:AP:76:LYS:NZ	2.13	0.63
17:AQ:82:LEU:C	17:AQ:84:GLN:N	2.55	0.63
18:AR:93:LYS:HB2	19:AS:10:LYS:CD	2.29	0.63
19:AS:15:GLU:HB3	19:AS:16:PRO:HD2	1.78	0.63
19:AS:76:LYS:HE3	19:AS:86:GLY:N	2.13	0.63
20:AT:66:GLU:HA	20:AT:69:LEU:CD1	2.28	0.63
21:AU:43:VAL:HG12	21:AU:44:GLU:N	2.11	0.63
23:AW:175:VAL:CG2	23:AW:176:PRO:HD2	2.28	0.63
25:AY:19:LEU:HD13	25:AY:19:LEU:C	2.24	0.63
25:AY:50:ARG:O	25:AY:54:ARG:HG3	1.98	0.63
29:Ac:41:PRO:HD2	29:Ac:46:HIS:O	1.98	0.63
31:Ae:49:VAL:O	31:Ae:53:PRO:CG	2.47	0.63
34:BA:132:C:N3	34:BA:231:G:C2	2.66	0.63
34:BA:362:G:O3'	45:BP:33:ARG:NH2	2.31	0.63
34:BA:449:C:H2'	34:BA:450:G:C4'	2.29	0.63
34:BA:581:G:H2'	34:BA:582:U:OP2	1.98	0.63
34:BA:640:A:O2'	34:BA:641:U:H5'	1.98	0.63
34:BA:665:A:H2'	34:BA:725:G:H21	1.57	0.63
34:BA:754:C:O2	34:BA:754:C:C3'	2.46	0.63
34:BA:783:C:HO2'	34:BA:784:C:H5'	1.63	0.63
34:BA:867:G:H2'	34:BA:868:C:H6	1.63	0.63
34:BA:961:U:C5	34:BA:983:A:N6	2.66	0.63
34:BA:1158:C:HO2'	35:BF:133:LYS:NZ	1.29	0.63
34:BA:1416:G:N1	34:BA:1485:U:C2	2.66	0.63
35:BF:39:ILE:O	35:BF:41:ILE:HD12	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:169:LYS:HE2	35:BF:170:GLU:N	2.13	0.63
36:BG:8:ILE:CG1	36:BG:16:ARG:HD2	2.28	0.63
36:BG:11:ARG:HH22	36:BG:179:ARG:N	1.97	0.63
36:BG:23:TYR:CD2	36:BG:24:ALA:N	2.64	0.63
37:BH:110:PHE:O	37:BH:161:ASN:ND2	2.31	0.63
39:BJ:1:MET:SD	39:BJ:68:PRO:HG3	2.39	0.63
40:BK:17:VAL:HG11	40:BK:44:TYR:CE2	2.32	0.63
41:BL:18:ARG:NH1	41:BL:18:ARG:HG3	2.02	0.63
42:BM:9:ARG:HD2	42:BM:14:VAL:HG13	1.79	0.63
42:BM:113:LYS:NZ	42:BM:119:ALA:HB1	2.13	0.63
43:BN:49:VAL:CG1	47:BR:41:ARG:HD2	2.23	0.63
44:BO:66:LEU:O	44:BO:69:ALA:HB3	1.97	0.63
44:BO:92:GLU:O	44:BO:94:ALA:N	2.32	0.63
45:BP:33:ARG:CG	45:BP:60:LEU:HD23	2.29	0.63
45:BP:77:LEU:HD22	45:BP:81:SER:HB3	1.81	0.63
45:BP:83:VAL:HA	45:BP:104:VAL:O	1.98	0.63
46:BQ:15:VAL:HG22	46:BQ:39:ILE:CD1	1.12	0.63
47:BR:14:PRO:O	47:BR:15:LYS:C	2.41	0.63
48:BS:63:ARG:HH12	48:BS:87:ILE:CD1	2.11	0.63
48:BS:65:ARG:O	48:BS:68:ARG:CB	2.45	0.63
50:BU:80:GLY:O	50:BU:82:MET:N	2.32	0.63
50:BU:97:SER:O	50:BU:98:LEU:HD13	1.98	0.63
55:CA:136:ARG:O	55:CA:140:VAL:HG23	1.98	0.63
1:AA:119:A:H4'	1:AA:120:U:H5'	1.80	0.63
1:AA:270(U):C:H2'	1:AA:270(V):G:C1'	2.29	0.63
1:AA:531:C:C5'	1:AA:532:A:C2	2.82	0.63
1:AA:586:A:C6	1:AA:1254:A:H2	2.15	0.63
1:AA:675:A:H2'	1:AA:676:A:N3	2.14	0.63
1:AA:684:G:C6	1:AA:775:G:N7	2.66	0.63
1:AA:997:G:H2'	1:AA:998:C:C5	2.32	0.63
1:AA:1079:C:O2	10:AJ:132:ARG:CA	2.47	0.63
1:AA:1131:G:O4'	11:AK:82:LEU:HD11	1.99	0.63
1:AA:1184:G:OP1	26:AZ:30:ARG:NH2	2.30	0.63
1:AA:1459:G:O6	1:AA:1461:G:C2	2.51	0.63
1:AA:1592:C:O2'	1:AA:1593:G:H5'	1.98	0.63
1:AA:1905:C:O2'	1:AA:1929:G:H2'	1.98	0.63
1:AA:1920:C:C5	56:AA:3001:NMY:H4	2.33	0.63
1:AA:1977:A:C2	1:AA:1978:A:N9	2.67	0.63
1:AA:2127:G:H5'	3:AC:36:LYS:CG	2.29	0.63
1:AA:2207:C:C2	1:AA:2208:U:O4'	2.52	0.63
1:AA:2261:C:O2'	1:AA:2262:U:H5'	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2273:A:N7	1:AA:2274:A:N9	2.46	0.63
1:AA:2584:U:H3'	1:AA:2584:U:C6	2.34	0.63
1:AA:2661:G:C6	8:AH:175:LYS:CE	2.62	0.63
2:AB:69:G:H2'	2:AB:69:G:N3	2.14	0.63
2:AB:71:C:H2'	2:AB:72:G:C4'	2.28	0.63
2:AB:74:U:H5''	2:AB:75:G:OP2	1.98	0.63
3:AC:49:ILE:HD11	3:AC:165:ASN:HD22	1.62	0.63
4:AD:5:LYS:HD3	4:AD:29:PRO:CB	2.24	0.63
4:AD:14:ARG:HB3	4:AD:15:PHE:CE2	2.33	0.63
4:AD:24:ILE:HG22	4:AD:25:THR:N	2.12	0.63
5:AE:81:ILE:HG22	5:AE:82:ARG:H	1.63	0.63
6:AF:7:TYR:CD2	6:AF:119:ARG:HB3	2.33	0.63
7:AG:51:ARG:N	7:AG:51:ARG:HH11	1.96	0.63
10:AJ:12:LEU:CD2	10:AJ:23:VAL:HG22	2.29	0.63
10:AJ:27:LEU:CG	10:AJ:57:ILE:HB	2.29	0.63
11:AK:17:ASP:OD1	11:AK:18:ALA:C	2.42	0.63
11:AK:103:VAL:O	11:AK:104:LYS:C	2.38	0.63
12:AL:25:LEU:HD13	12:AL:38:VAL:HB	1.79	0.63
14:AN:8:LYS:HZ3	14:AN:11:LYS:CE	2.10	0.63
14:AN:37:LEU:HD11	14:AN:130:LYS:CB	2.27	0.63
15:AO:73:VAL:O	15:AO:74:LYS:C	2.42	0.63
15:AO:83:ILE:CA	15:AO:86:ARG:HG3	2.21	0.63
16:AP:23:ARG:HH21	16:AP:42:ASP:H	1.46	0.63
17:AQ:6:LEU:HA	17:AQ:9:LEU:HD12	1.79	0.63
18:AR:108:GLU:CD	18:AR:109:LEU:H	2.06	0.63
19:AS:3:ALA:HB2	19:AS:44:LYS:CD	2.28	0.63
19:AS:5:VAL:HG12	19:AS:37:VAL:HG22	1.80	0.63
20:AT:25:ARG:HG2	20:AT:71:VAL:HG21	1.81	0.63
21:AU:39:ILE:HG21	21:AU:54:VAL:CG1	2.29	0.63
22:AV:97:ARG:HB3	22:AV:101:LYS:HE2	1.80	0.63
25:AY:20:VAL:HG23	25:AY:55:LEU:HD23	1.79	0.63
27:Aa:15:ILE:C	27:Aa:16:CYS:SG	2.81	0.63
30:Ad:39:ARG:O	30:Ad:40:TRP:HB2	1.97	0.63
31:Ae:9:GLY:O	31:Ae:14:VAL:HB	1.98	0.63
34:BA:54:C:N4	34:BA:352:C:H2'	2.14	0.63
34:BA:438:G:H2'	34:BA:494:U:O4	1.98	0.63
34:BA:489:C:O2'	34:BA:490:G:H5'	1.98	0.63
34:BA:581:G:H4'	48:BS:64:ARG:NH1	2.13	0.63
34:BA:679:C:O2'	34:BA:680:C:H5'	1.97	0.63
34:BA:966:G:H2'	34:BA:967:C:C6	2.33	0.63
34:BA:1100:C:C2'	35:BF:98:LEU:HD11	2.28	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1192:C:N4	34:BA:1193:G:C5	2.67	0.63
34:BA:1206:G:H5'	36:BG:194:GLY:CA	2.23	0.63
34:BA:1220:G:N2	52:BW:55:LYS:HG3	2.14	0.63
34:BA:1254:C:OP1	43:BN:45:ARG:CZ	2.47	0.63
34:BA:1488:G:O2'	34:BA:1489:G:H5'	1.99	0.63
35:BF:17:PHE:HA	35:BF:42:ILE:HG22	1.80	0.63
37:BH:61:LYS:O	37:BH:64:LEU:HB3	1.98	0.63
37:BH:61:LYS:CA	37:BH:203:VAL:HG22	2.29	0.63
38:BI:81:GLU:HB3	38:BI:90:VAL:CG2	2.28	0.63
38:BI:137:GLU:HA	38:BI:137:GLU:OE2	1.97	0.63
40:BK:129:GLU:CB	40:BK:131:LYS:HE2	2.29	0.63
44:BO:19:ALA:N	44:BO:80:VAL:HG21	2.13	0.63
45:BP:56:ALA:HB2	45:BP:70:ILE:HG13	1.80	0.63
45:BP:110:VAL:CG2	45:BP:113:ARG:HG3	2.29	0.63
47:BR:23:ARG:HH11	47:BR:28:GLY:C	2.07	0.63
52:BW:38:SER:HB3	52:BW:71:LEU:HD12	1.80	0.63
54:BY:2:GLY:N	54:BY:5:ASP:HB2	2.14	0.63
55:CA:37:GLU:HG2	55:CA:37:GLU:O	1.99	0.63
55:CA:316:SER:HB2	55:CA:317:PRO:HD3	1.79	0.63
55:CA:390:ARG:CG	55:CA:391:GLU:HG2	2.10	0.63
55:CA:496:ALA:H	55:CA:516:ALA:C	2.05	0.63
55:CA:601:ASN:N	55:CA:602:ARG:HB2	2.14	0.63
1:AA:7:G:H1	1:AA:2896:C:H2'	1.63	0.63
1:AA:60:G:C8	1:AA:63:U:O4	2.51	0.63
1:AA:61:G:H5'	25:AY:45:ILE:HG12	1.80	0.63
1:AA:242:G:H2'	1:AA:254:G:N1	2.13	0.63
1:AA:298:G:O2'	1:AA:322:A:N1	2.24	0.63
1:AA:363(A):A:H2'	1:AA:363(B):G:O5'	1.98	0.63
1:AA:515:A:C8	1:AA:515:A:H3'	2.34	0.63
1:AA:576:U:C2	1:AA:577:G:N7	2.67	0.63
1:AA:593:G:C6	1:AA:594:U:C4	2.87	0.63
1:AA:651:G:H2'	1:AA:652:C:O4'	1.98	0.63
1:AA:673:C:H5''	6:AF:81:PRO:HG2	1.81	0.63
1:AA:693:C:O2'	1:AA:694:U:H5'	1.99	0.63
1:AA:742:G:C5'	1:AA:1675:C:O2'	2.47	0.63
1:AA:747:U:O2'	20:AT:88:ARG:HG3	1.99	0.63
1:AA:899:A:N3	1:AA:900:A:C2	2.65	0.63
1:AA:1051:G:C3'	1:AA:1052:C:H5''	2.28	0.63
1:AA:1105:U:C3'	1:AA:1107:G:C8	2.80	0.63
1:AA:1498:C:O2	1:AA:1499:C:C5	2.52	0.63
1:AA:1693:U:O2	1:AA:1693:U:H2'	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1710:C:H4'	1:AA:2858:C:N3	2.12	0.63
1:AA:1717:G:C2	1:AA:1718:G:N3	2.66	0.63
1:AA:1772:G:N2	1:AA:1774:C:H5'	2.14	0.63
1:AA:1805:U:H2'	1:AA:1806:C:H6	1.60	0.63
1:AA:1924:C:C2	1:AA:1925:C:C5	2.86	0.63
1:AA:1933:G:N2	1:AA:1973:G:O2'	2.31	0.63
1:AA:2020:A:P	18:AR:27:LEU:HD13	2.38	0.63
1:AA:2125:G:OP1	3:AC:40:THR:HG21	1.99	0.63
1:AA:2130:U:H5''	1:AA:2131:G:OP1	1.98	0.63
1:AA:2365:G:OP1	24:AX:55:ARG:N	2.31	0.63
1:AA:2670:A:C6	1:AA:2671:A:C6	2.87	0.63
1:AA:2732:G:H3'	1:AA:2733:A:H5'	1.81	0.63
1:AA:2754:U:C2'	1:AA:2756:U:OP1	2.46	0.63
2:AB:25:A:H2'	2:AB:26:A:O4'	1.98	0.63
2:AB:62:C:C2	2:AB:63:G:C8	2.87	0.63
2:AB:83:G:N2	2:AB:84:C:N1	2.47	0.63
3:AC:41:VAL:HA	3:AC:216:THR:HA	1.80	0.63
4:AD:55:GLY:H	4:AD:218:ARG:HD3	1.64	0.63
5:AE:53:PRO:HG3	5:AE:75:VAL:HG21	1.81	0.63
6:AF:65:TRP:HB3	6:AF:75:HIS:O	1.99	0.63
7:AG:4:ASP:O	7:AG:7:LEU:HB2	1.97	0.63
7:AG:90:LEU:HD13	7:AG:90:LEU:O	1.99	0.63
8:AH:35:VAL:HG11	8:AH:72:ILE:CA	2.12	0.63
11:AK:25:ARG:HA	11:AK:28:THR:HG23	1.80	0.63
12:AL:108:GLU:HB3	12:AL:111:PHE:CE2	2.33	0.63
13:AM:76:LYS:HZ2	13:AM:99:LEU:CD1	2.11	0.63
14:AN:116:GLU:HA	14:AN:119:ARG:HG3	1.81	0.63
17:AQ:68:TYR:CD2	17:AQ:70:VAL:HG22	2.34	0.63
18:AR:65:ILE:HD12	18:AR:96:ALA:CB	2.21	0.63
19:AS:35:LEU:HG	19:AS:36:PRO:CD	2.29	0.63
20:AT:20:VAL:HG13	20:AT:21:VAL:H	1.63	0.63
22:AV:95:LYS:HG3	22:AV:103:GLY:HA2	1.81	0.63
23:AW:8:TYR:N	23:AW:8:TYR:CD1	2.64	0.63
23:AW:29:TYR:O	23:AW:89:PHE:HA	1.99	0.63
23:AW:98:MET:HE2	23:AW:133:ILE:HG12	1.80	0.63
28:Ab:34:PRO:HD3	28:Ab:40:LYS:CE	2.28	0.63
34:BA:237:C:H5''	50:BU:25:ARG:NH1	2.14	0.63
34:BA:255:G:C4'	50:BU:16:GLN:O	2.44	0.63
34:BA:296:U:H1'	34:BA:302:G:H22	1.63	0.63
34:BA:375:U:O2'	34:BA:376:G:H5'	1.99	0.63
34:BA:439:A:H3'	34:BA:440:A:H8	1.64	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:520:A:C8	34:BA:521:G:O4'	2.52	0.63
34:BA:537:G:O3'	45:BP:113:ARG:NH1	2.32	0.63
34:BA:676:A:H2'	34:BA:677:U:C6	2.34	0.63
34:BA:689:C:C2	34:BA:690:G:C8	2.86	0.63
34:BA:689:C:H5''	34:BA:690:G:OP2	1.99	0.63
34:BA:942:G:N2	42:BM:124:GLN:HE22	1.90	0.63
34:BA:1039:C:N4	34:BA:1040:U:O4	2.31	0.63
34:BA:1189:C:C2'	34:BA:1190:G:H5'	2.29	0.63
34:BA:1260:C:H4'	34:BA:1284:C:C5'	2.28	0.63
35:BF:70:PHE:O	35:BF:92:TYR:HB2	1.98	0.63
35:BF:70:PHE:CB	35:BF:163:PHE:O	2.47	0.63
35:BF:92:TYR:HE2	35:BF:151:GLY:O	1.82	0.63
36:BG:63:ASN:O	36:BG:99:VAL:HG12	1.99	0.63
37:BH:191:ARG:NH1	37:BH:192:GLU:HA	2.13	0.63
40:BK:99:LEU:HD21	40:BK:102:ARG:HD2	1.81	0.63
40:BK:140:ASP:HA	40:BK:143:ARG:NE	2.13	0.63
41:BL:36:LEU:HD23	41:BL:36:LEU:N	2.10	0.63
41:BL:38:ILE:O	41:BL:41:ARG:HB2	1.99	0.63
41:BL:112:LEU:HB2	41:BL:132:GLU:O	1.99	0.63
42:BM:19:LEU:CD2	42:BM:20:ARG:N	2.62	0.63
43:BN:23:ILE:HG23	43:BN:85:LEU:CD2	2.21	0.63
45:BP:117:ARG:NH2	45:BP:124:LYS:HG3	2.13	0.63
49:BT:43:LYS:HG3	49:BT:48:TRP:CE3	2.33	0.63
50:BU:63:ARG:HG2	50:BU:64:PRO:N	2.12	0.63
50:BU:88:TYR:HA	50:BU:91:ARG:CZ	2.28	0.63
51:BV:72:ARG:CA	51:BV:75:ILE:HD12	2.18	0.63
55:CA:13:HIS:CB	55:CA:109:THR:CG2	2.75	0.63
55:CA:54:ILE:CG1	55:CA:211:GLN:NE2	2.55	0.63
55:CA:167:ALA:HB2	57:CA:701:GCP:C2	2.28	0.63
1:AA:77:C:H2'	1:AA:78:A:C8	2.32	0.63
1:AA:80:G:H1'	1:AA:347:A:H61	1.63	0.63
1:AA:270(E):G:H2'	1:AA:270(F):U:C6	2.34	0.63
1:AA:461:C:O2	1:AA:461:C:H2'	1.99	0.63
1:AA:574:C:H41	1:AA:2054:A:H5''	1.62	0.63
1:AA:641:C:H2'	1:AA:642:G:O4'	1.97	0.63
1:AA:815:C:O2'	1:AA:816:C:H5''	1.99	0.63
1:AA:987:G:O6	1:AA:988:A:C5	2.52	0.63
1:AA:1626:G:N2	1:AA:1634:A:O2'	2.32	0.63
1:AA:1703:G:N2	1:AA:1704:G:C4	2.67	0.63
1:AA:1954:G:HO2'	1:AA:1955:U:H5'	1.62	0.63
1:AA:1966:A:O2'	1:AA:1967:C:P	2.56	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2018:G:N3	18:AR:34:LYS:NZ	2.47	0.63
1:AA:2392:A:P	31:Ae:33:ASN:HD21	2.22	0.63
1:AA:2557:G:H5'	55:CA:553:GLU:OE1	1.99	0.63
1:AA:2571:C:H1'	5:AE:146:THR:CG2	2.27	0.63
1:AA:2636:U:H4'	5:AE:79:ARG:CD	2.27	0.63
4:AD:41:GLY:C	4:AD:60:ARG:HH12	2.06	0.63
4:AD:54:ARG:HB3	4:AD:218:ARG:HD2	1.78	0.63
4:AD:62:TYR:N	4:AD:62:TYR:CD1	2.63	0.63
4:AD:76:PRO:HG2	4:AD:98:VAL:CG2	2.23	0.63
4:AD:134:ARG:O	4:AD:168:ARG:NH2	2.31	0.63
5:AE:45:THR:HG1	5:AE:80:GLU:C	2.04	0.63
5:AE:60:ASN:O	5:AE:61:ARG:C	2.42	0.63
7:AG:55:LYS:NZ	7:AG:152:LEU:HD11	2.14	0.63
7:AG:68:PRO:CG	7:AG:72:ARG:HH22	2.12	0.63
10:AJ:107:ILE:O	10:AJ:111:LYS:HB2	1.98	0.63
11:AK:4:TYR:O	18:AR:64:ARG:NH2	2.29	0.63
12:AL:11:ALA:CB	12:AL:97:ARG:NH2	2.55	0.63
12:AL:12:ASP:H	12:AL:14:THR:HG22	1.63	0.63
14:AN:36:ALA:O	14:AN:37:LEU:CG	2.47	0.63
14:AN:56:ARG:CZ	14:AN:57:HIS:CB	2.77	0.63
14:AN:58:PHE:C	14:AN:60:ARG:N	2.55	0.63
14:AN:77:LYS:HG2	14:AN:87:LYS:HA	1.81	0.63
15:AO:28:LEU:HD11	15:AO:116:LEU:HD23	1.80	0.63
15:AO:40:LYS:O	15:AO:44:LEU:HB2	1.99	0.63
16:AP:12:PHE:C	16:AP:14:VAL:N	2.53	0.63
16:AP:78:LEU:HG	16:AP:111:GLU:OE2	1.97	0.63
19:AS:68:LYS:NZ	19:AS:95:LEU:CD1	2.61	0.63
22:AV:57:GLN:O	22:AV:58:GLY:O	2.16	0.63
26:AZ:40:THR:O	26:AZ:41:PRO:C	2.40	0.63
26:AZ:52:HIS:CE1	26:AZ:53:LEU:HG	2.33	0.63
33:Ag:4:UNK:CB	33:Ag:143:UNK:CB	2.76	0.63
34:BA:50:A:C6	34:BA:361:G:C4'	2.82	0.63
34:BA:523:A:N6	45:BP:53:ARG:HH22	1.96	0.63
34:BA:781:A:N6	34:BA:802:A:N3	2.47	0.63
34:BA:947:G:N2	34:BA:948:C:C2	2.67	0.63
34:BA:1077:G:O6	38:BI:47:LYS:NZ	2.32	0.63
34:BA:1132:C:C4	34:BA:1133:G:N7	2.67	0.63
34:BA:1270:C:C4'	34:BA:1313:U:H4'	2.28	0.63
34:BA:1382:C:O5'	34:BA:1382:C:H6	1.80	0.63
34:BA:1388:C:H2'	34:BA:1389:C:C6	2.29	0.63
34:BA:1454:G:C5	34:BA:1455:G:C6	2.86	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:56:ARG:HB3	35:BF:56:ARG:CZ	2.29	0.63
36:BG:52:LEU:HA	36:BG:70:VAL:CG2	2.23	0.63
37:BH:94:LEU:O	37:BH:97:LEU:HB2	1.99	0.63
38:BI:86:ALA:O	38:BI:125:SER:CB	2.47	0.63
39:BJ:60:PHE:N	39:BJ:60:PHE:CD1	2.66	0.63
40:BK:54:THR:O	40:BK:55:GLY:C	2.42	0.63
41:BL:137:VAL:HG12	41:BL:138:TRP:N	2.14	0.63
42:BM:117:HIS:HD2	42:BM:121:ARG:HD3	1.63	0.63
43:BN:32:ALA:HB2	43:BN:75:ILE:C	2.24	0.63
44:BO:23:ALA:HB1	44:BO:28:THR:OG1	1.98	0.63
45:BP:39:VAL:HB	45:BP:57:LYS:CB	2.26	0.63
46:BQ:84:ILE:HG13	46:BQ:86:CYS:HB3	1.80	0.63
46:BQ:85:GLY:O	52:BW:74:PHE:CB	2.47	0.63
47:BR:26:ARG:HB2	47:BR:43:CYS:CB	2.27	0.63
47:BR:27:CYS:H	47:BR:43:CYS:CB	2.11	0.63
49:BT:43:LYS:HG3	49:BT:48:TRP:CZ3	2.34	0.63
50:BU:21:VAL:CG2	50:BU:43:LEU:HA	2.29	0.63
50:BU:75:ARG:HG2	50:BU:76:LEU:N	2.14	0.63
55:CA:64:ILE:HB	55:CA:65:LYS:HA	1.79	0.63
55:CA:427:LYS:O	55:CA:428:ASN:HB2	1.98	0.63
1:AA:138:G:N2	1:AA:139:G:N7	2.46	0.63
1:AA:220:G:H21	1:AA:265:A:N6	1.97	0.63
1:AA:262:A:O2'	1:AA:263:C:H5'	1.99	0.63
1:AA:341:G:H2'	1:AA:342:G:C8	2.34	0.63
1:AA:572:A:C5	1:AA:573:G:C2	2.87	0.63
1:AA:607:U:C2	1:AA:608:A:C8	2.87	0.63
1:AA:663:G:H5'	13:AM:18:ARG:CB	2.20	0.63
1:AA:668:G:H2'	1:AA:670:A:N6	2.13	0.63
1:AA:704:G:O2'	1:AA:705:A:OP2	2.16	0.63
1:AA:788:A:O2'	1:AA:789:A:OP2	2.17	0.63
1:AA:807:U:O4'	1:AA:2445:G:H4'	1.97	0.63
1:AA:1023:U:H2'	1:AA:1024:G:H5'	1.80	0.63
1:AA:1057:A:N6	1:AA:1086:A:C2'	2.61	0.63
1:AA:1095:A:C4'	55:CA:416:MET:HE3	2.29	0.63
1:AA:1105:U:C4'	1:AA:1106:G:C5'	2.67	0.63
1:AA:1213:A:H1'	1:AA:1238:G:H1'	1.80	0.63
1:AA:1226:G:H3'	1:AA:1226:G:C8	2.34	0.63
1:AA:1298:C:H4'	1:AA:1302:A:N6	2.13	0.63
1:AA:1309:G:C2	1:AA:1310:G:C8	2.87	0.63
1:AA:1363:C:O3'	1:AA:1809:A:N6	2.32	0.63
1:AA:1538:G:O2'	1:AA:1539:G:H5'	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1901:A:O2'	4:AD:244:ARG:CZ	2.47	0.63
1:AA:1906:G:N3	1:AA:1907:G:C8	2.67	0.63
1:AA:1992:G:H1'	1:AA:1993:U:C4	2.34	0.63
1:AA:2244:U:C2'	1:AA:2245:U:O5'	2.47	0.63
1:AA:2329:G:H2'	1:AA:2330:G:C8	2.33	0.63
1:AA:2523:G:H1'	1:AA:2765:A:N7	2.14	0.63
1:AA:2569:G:C6	1:AA:2570:G:N7	2.67	0.63
1:AA:2578:G:HO2'	1:AA:2579:C:H6	1.47	0.63
1:AA:2659:G:OP2	8:AH:158:HIS:NE2	2.31	0.63
3:AC:74:VAL:HA	3:AC:112:ALA:O	1.99	0.63
5:AE:151:TYR:CE2	5:AE:153:GLY:N	2.67	0.63
5:AE:164:ARG:O	5:AE:165:VAL:CG2	2.44	0.63
6:AF:11:VAL:CG1	6:AF:127:GLU:HB2	2.24	0.63
7:AG:19:LEU:HG	7:AG:22:ARG:NH1	2.12	0.63
7:AG:68:PRO:CB	7:AG:72:ARG:HH22	2.12	0.63
7:AG:102:PHE:O	7:AG:103:LEU:C	2.42	0.63
7:AG:120:LEU:CD2	7:AG:181:ARG:HG2	2.29	0.63
10:AJ:51:ALA:CB	10:AJ:72:PRO:CB	2.76	0.63
11:AK:2:LYS:N	18:AR:61:TRP:CZ2	2.66	0.63
11:AK:63:THR:O	11:AK:65:LYS:HD2	1.99	0.63
11:AK:97:ARG:O	11:AK:98:VAL:C	2.41	0.63
12:AL:13:ASN:OD1	12:AL:13:ASN:O	2.16	0.63
12:AL:35:VAL:CA	12:AL:61:VAL:HG11	2.29	0.63
12:AL:57:VAL:HG23	12:AL:58:VAL:N	2.14	0.63
14:AN:75:THR:CG2	14:AN:89:ASN:O	2.47	0.63
14:AN:134:ARG:HH11	14:AN:134:ARG:HG3	1.63	0.63
15:AO:17:ARG:HB2	15:AO:17:ARG:HH11	1.63	0.63
18:AR:89:GLU:CD	19:AS:52:VAL:H	2.07	0.63
19:AS:21:ARG:O	19:AS:22:VAL:O	2.15	0.63
19:AS:83:ARG:C	19:AS:83:ARG:HD3	2.24	0.63
22:AV:96:ILE:HD12	22:AV:96:ILE:N	2.14	0.63
27:Aa:48:ARG:N	27:Aa:52:THR:OG1	2.31	0.63
27:Aa:62:ARG:O	27:Aa:65:ASP:OD1	2.16	0.63
31:Ae:58:ILE:HG22	31:Ae:61:LEU:HD12	1.80	0.63
33:Ag:3:UNK:O	33:Ag:143:UNK:C	2.47	0.63
34:BA:185:A:H2'	34:BA:186:C:H6	1.61	0.63
34:BA:301:G:N2	34:BA:302:G:C1'	2.61	0.63
34:BA:363:A:C8	45:BP:31:PRO:HD2	2.33	0.63
34:BA:519:C:C5'	45:BP:51:ALA:HB2	2.29	0.63
34:BA:748:C:C6	34:BA:748:C:C3'	2.81	0.63
34:BA:775:G:H2'	34:BA:776:G:C8	2.34	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:921:U:O2'	34:BA:922:G:H5'	1.98	0.63
34:BA:1115:C:N1	34:BA:1186:G:C2	2.65	0.63
34:BA:1243:C:OP1	54:BY:10:ARG:HD2	1.98	0.63
34:BA:1278:U:OP1	34:BA:1279:A:H4'	1.99	0.63
34:BA:1321:C:O5'	34:BA:1321:C:C6	2.51	0.63
34:BA:1344:C:H5'	42:BM:120:ARG:O	1.98	0.63
34:BA:1346:A:H8	34:BA:1348:U:C2	2.16	0.63
34:BA:1392:G:H8	34:BA:1392:G:O5'	1.81	0.63
34:BA:1423:G:H2'	34:BA:1424:C:H6	1.62	0.63
35:BF:71:VAL:HG22	35:BF:93:VAL:CB	2.28	0.63
35:BF:76:GLN:O	35:BF:77:ALA:HB2	1.98	0.63
35:BF:96:ARG:HD2	35:BF:96:ARG:H	1.64	0.63
35:BF:175:ARG:HA	35:BF:178:ARG:HB2	1.80	0.63
35:BF:208:ILE:HA	35:BF:211:ILE:CG1	2.29	0.63
36:BG:152:ILE:HG22	36:BG:167:TRP:HB3	1.81	0.63
36:BG:172:ARG:CZ	36:BG:172:ARG:HB3	2.27	0.63
37:BH:15:GLU:CB	37:BH:19:LEU:HD11	2.28	0.63
37:BH:181:MET:O	37:BH:181:MET:HE2	1.99	0.63
38:BI:84:PHE:CZ	38:BI:133:TYR:CB	2.76	0.63
39:BJ:2:ARG:O	39:BJ:67:MET:SD	2.57	0.63
39:BJ:12:PRO:CB	39:BJ:58:GLY:HA2	2.20	0.63
39:BJ:36:ARG:O	39:BJ:66:GLU:HG2	1.99	0.63
39:BJ:80:ARG:CG	39:BJ:88:VAL:HG21	2.29	0.63
40:BK:44:TYR:O	40:BK:47:CYS:N	2.32	0.63
40:BK:50:ILE:HD13	40:BK:58:PRO:HA	1.81	0.63
40:BK:74:GLU:CG	40:BK:75:VAL:N	2.61	0.63
41:BL:6:ILE:HD13	41:BL:6:ILE:C	2.24	0.63
41:BL:44:PHE:HE2	41:BL:109:ILE:HD13	1.62	0.63
41:BL:68:ARG:NH2	41:BL:74:PRO:HB3	2.13	0.63
42:BM:38:GLN:O	42:BM:40:LEU:N	2.30	0.63
44:BO:73:MET:O	44:BO:75:TYR:N	2.32	0.63
44:BO:91:ARG:CG	44:BO:95:ILE:HD11	2.29	0.63
45:BP:32:PHE:HB2	45:BP:84:LEU:HD21	1.80	0.63
50:BU:35:VAL:HG12	50:BU:36:ILE:N	2.13	0.63
50:BU:78:GLU:HG2	50:BU:81:ARG:HB2	1.80	0.63
55:CA:310:PHE:CA	55:CA:385:PRO:CG	2.72	0.63
1:AA:270(A):A:H3'	1:AA:366:C:O2'	1.97	0.63
1:AA:290:G:H3'	1:AA:290:G:H8	1.64	0.63
1:AA:472:A:H2'	1:AA:473:G:H5'	1.79	0.63
1:AA:534:U:HO2'	18:AR:49:HIS:CD2	2.17	0.63
1:AA:566:U:H2'	1:AA:567:A:C8	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:915:C:H2'	1:AA:916:G:C8	2.33	0.63
1:AA:996:A:O3'	18:AR:93:LYS:HG2	1.98	0.63
1:AA:1027:A:H2'	1:AA:1028:A:H8	1.64	0.63
1:AA:1033:U:H5''	32:Af:9:ARG:NH2	2.12	0.63
1:AA:1165:U:H2'	1:AA:1166:C:C5	2.33	0.63
1:AA:1227:A:H2'	1:AA:1228:G:H5''	1.79	0.63
1:AA:1248:G:C8	18:AR:2:PRO:CA	2.81	0.63
1:AA:1252:G:O2'	18:AR:33:ARG:NE	2.25	0.63
1:AA:1511:A:C2'	1:AA:1512:G:H5''	2.28	0.63
1:AA:1528:A:C8	1:AA:1529:A:C2	2.87	0.63
1:AA:1786:A:C4'	1:AA:1938:A:H61	2.05	0.63
1:AA:1906:G:N3	1:AA:1907:G:N7	2.47	0.63
1:AA:2331:G:H4'	24:AX:43:THR:N	2.14	0.63
1:AA:2360:A:N7	1:AA:2361:A:C8	2.67	0.63
1:AA:2373:G:C2	1:AA:2374:C:C4	2.87	0.63
1:AA:2717:G:O2'	1:AA:2718:G:O5'	2.17	0.63
2:AB:101:A:C2'	2:AB:102:G:H8	1.99	0.63
3:AC:71:GLN:HG3	3:AC:72:VAL:N	2.13	0.63
4:AD:5:LYS:HA	4:AD:28:GLU:HB2	1.80	0.63
4:AD:69:ARG:HH22	4:AD:130:ALA:HB2	1.64	0.63
4:AD:118:VAL:O	4:AD:129:ASN:CA	2.47	0.63
4:AD:246:PRO:HG2	4:AD:251:GLY:O	1.98	0.63
5:AE:47:VAL:HG22	5:AE:79:ARG:CB	2.29	0.63
6:AF:74:ARG:CD	6:AF:75:HIS:H	2.12	0.63
6:AF:152:GLU:OE1	6:AF:152:GLU:HA	1.97	0.63
6:AF:171:PRO:HB2	6:AF:172:TRP:CE3	2.32	0.63
6:AF:197:ASP:HB2	6:AF:200:GLU:CD	2.23	0.63
7:AG:16:ARG:HG3	7:AG:16:ARG:NH1	2.09	0.63
7:AG:107:LEU:CD2	7:AG:173:LEU:HD21	2.29	0.63
8:AH:89:ILE:O	8:AH:129:THR:O	2.16	0.63
8:AH:126:PRO:CG	8:AH:132:ARG:NH1	2.61	0.63
14:AN:32:TYR:HE2	14:AN:108:GLY:H	1.45	0.63
14:AN:59:ARG:C	14:AN:60:ARG:HD2	2.24	0.63
14:AN:99:PRO:HG2	14:AN:101:ARG:NE	2.12	0.63
15:AO:45:ARG:O	15:AO:46:GLY:C	2.42	0.63
15:AO:54:LEU:HD12	15:AO:54:LEU:H	1.64	0.63
15:AO:75:LEU:HA	15:AO:78:LYS:CB	2.29	0.63
16:AP:68:GLN:O	16:AP:69:VAL:C	2.42	0.63
19:AS:1:MET:O	19:AS:2:PHE:C	2.42	0.63
22:AV:14:LEU:HB2	22:AV:20:TYR:N	2.13	0.63
22:AV:44:ILE:O	22:AV:46:LYS:N	2.32	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:109:GLU:O	22:AV:110:GLU:C	2.42	0.63
23:AW:4:ARG:NE	23:AW:44:PHE:HZ	1.80	0.63
23:AW:41:LEU:O	23:AW:42:VAL:C	2.42	0.63
29:Ac:28:ARG:O	29:Ac:29:ASN:O	2.17	0.63
30:Ad:43:THR:HG23	30:Ad:46:VAL:CB	2.28	0.63
31:Ae:5:LYS:HD2	31:Ae:63:PRO:HG2	1.79	0.63
34:BA:237:C:OP1	50:BU:40:LYS:NZ	2.32	0.63
34:BA:778:G:H2'	34:BA:779:C:C6	2.34	0.63
34:BA:817:C:O2'	34:BA:818:G:O5'	2.15	0.63
34:BA:817:C:HO2'	34:BA:818:G:H5''	1.64	0.63
34:BA:826:C:H5'	41:BL:12:ARG:HH21	1.63	0.63
34:BA:922:G:O2'	34:BA:923:A:H5'	1.99	0.63
34:BA:962:C:H2'	34:BA:963:G:O4'	1.98	0.63
34:BA:1112:C:H1'	36:BG:179:ARG:NH1	2.14	0.63
34:BA:1226:C:N3	46:BQ:104:ARG:HG3	1.98	0.63
34:BA:1308:U:N3	34:BA:1309:G:H8	1.89	0.63
34:BA:1363:A:H1'	34:BA:1365:G:C5	2.34	0.63
34:BA:1415:G:C6	34:BA:1486:G:O6	2.49	0.63
35:BF:118:LEU:HD11	35:BF:141:GLU:CD	2.23	0.63
35:BF:118:LEU:HD22	35:BF:142:LEU:CD1	2.29	0.63
35:BF:185:ILE:CB	35:BF:199:TYR:HB2	2.29	0.63
36:BG:51:GLY:O	36:BG:70:VAL:HG13	1.97	0.63
37:BH:146:ILE:HD12	37:BH:146:ILE:O	1.99	0.63
38:BI:84:PHE:CG	38:BI:134:ALA:HA	2.33	0.63
39:BJ:52:ILE:HG22	39:BJ:53:ALA:H	1.63	0.63
39:BJ:89:MET:HE3	51:BV:76:LEU:HD21	1.81	0.63
40:BK:142:GLU:O	40:BK:145:ALA:O	2.17	0.63
40:BK:143:ARG:CD	40:BK:144:MET:H	2.12	0.63
41:BL:112:LEU:HD12	41:BL:131:GLY:C	2.24	0.63
42:BM:15:ALA:HB3	42:BM:76:ALA:CB	2.29	0.63
42:BM:93:ARG:CZ	42:BM:97:LYS:HG2	2.29	0.63
44:BO:79:SER:HA	44:BO:104:GLN:CG	2.28	0.63
44:BO:101:SER:O	44:BO:103:LEU:N	2.32	0.63
49:BT:8:ARG:HD3	49:BT:15:PRO:CA	2.29	0.63
49:BT:22:THR:HA	49:BT:33:ILE:HG13	1.81	0.63
49:BT:27:LYS:H	49:BT:27:LYS:NZ	1.96	0.63
50:BU:75:ARG:CZ	50:BU:77:VAL:HG22	2.29	0.63
50:BU:88:TYR:N	50:BU:91:ARG:NH2	2.40	0.63
53:BX:79:ARG:O	53:BX:80:ARG:C	2.42	0.63
55:CA:313:VAL:H	55:CA:354:ASP:HB3	1.64	0.63
55:CA:377:GLY:HA2	55:CA:582:PRO:HB3	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:197:A:C2	1:AA:198:C:C1'	2.82	0.62
1:AA:212:G:H2'	1:AA:213:A:H8	1.63	0.62
1:AA:243:U:H2'	1:AA:244:A:H5'	1.81	0.62
1:AA:336:C:H4'	22:AV:67:LEU:HD23	1.81	0.62
1:AA:685:A:O4'	1:AA:774:A:N6	2.32	0.62
1:AA:744:G:N2	1:AA:754:C:C2	2.67	0.62
1:AA:905:U:H2'	1:AA:906:G:O4'	1.99	0.62
1:AA:919:G:N2	1:AA:2268:A:H5''	2.14	0.62
1:AA:942:G:H5'	13:AM:32:THR:CG2	2.29	0.62
1:AA:1061:U:O2	10:AJ:11:GLN:NE2	2.31	0.62
1:AA:1081:U:C5	1:AA:1082:U:C5	2.87	0.62
1:AA:1454:U:O2	1:AA:1454:U:C2'	2.47	0.62
1:AA:1659:U:O2'	1:AA:2712(A):A:N6	2.31	0.62
1:AA:1669:A:N1	1:AA:1994:C:H1'	2.14	0.62
1:AA:1670:C:O5'	1:AA:1671:U:H5	1.81	0.62
1:AA:1790:C:O2'	4:AD:213:ARG:NH2	2.32	0.62
1:AA:2009:G:H1'	15:AO:107:ASP:O	1.99	0.62
1:AA:2051:A:C5'	1:AA:2578:G:H5''	2.28	0.62
1:AA:2394:C:O2	1:AA:2394:C:H2'	1.99	0.62
1:AA:2439:A:H8	1:AA:2586:C:H4'	1.61	0.62
1:AA:2459:A:H2	1:AA:2492:U:C4	2.16	0.62
1:AA:2482:G:H2'	1:AA:2483:C:H5'	1.81	0.62
1:AA:2620:C:OP1	5:AE:153:GLY:HA2	1.98	0.62
1:AA:2658:C:C4	1:AA:2664:G:N2	2.67	0.62
1:AA:2772:C:C2	1:AA:2773:C:C5	2.86	0.62
4:AD:29:PRO:HG3	4:AD:82:ILE:C	2.24	0.62
4:AD:129:ASN:O	4:AD:193:VAL:CG2	2.47	0.62
5:AE:49:LEU:HD21	5:AE:76:ARG:N	2.13	0.62
5:AE:53:PRO:CG	5:AE:75:VAL:HG13	2.29	0.62
5:AE:102:VAL:CA	5:AE:200:GLU:OE1	2.47	0.62
5:AE:124:GLY:HA3	5:AE:136:ARG:HB3	1.81	0.62
5:AE:179:GLU:C	5:AE:181:LEU:HG	2.24	0.62
6:AF:64:ILE:HG23	6:AF:78:ILE:HB	1.80	0.62
6:AF:95:ARG:NE	6:AF:96:ASP:H	1.97	0.62
7:AG:4:ASP:HB3	7:AG:104:GLU:CD	2.24	0.62
7:AG:38:VAL:HG12	7:AG:93:THR:HA	1.79	0.62
7:AG:57:ALA:O	7:AG:58:GLN:C	2.40	0.62
7:AG:80:PHE:HD2	7:AG:81:LYS:H	1.44	0.62
8:AH:8:PRO:HD2	8:AH:69:ARG:HH21	1.62	0.62
8:AH:9:ILE:CD1	8:AH:73:ALA:HB2	2.29	0.62
8:AH:66:GLY:C	8:AH:69:ARG:HG2	2.24	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:15:GLY:HA2	10:AJ:45:THR:O	1.99	0.62
11:AK:55:VAL:C	11:AK:57:ALA:H	2.07	0.62
11:AK:93:THR:HG22	11:AK:94:HIS:HD2	1.63	0.62
11:AK:99:LEU:HD12	11:AK:99:LEU:C	2.23	0.62
12:AL:16:ALA:C	12:AL:18:LYS:N	2.57	0.62
13:AM:80:TYR:CZ	13:AM:85:LEU:HD22	2.34	0.62
13:AM:116:GLY:C	13:AM:121:LYS:HB3	2.24	0.62
14:AN:25:ASP:CB	14:AN:101:ARG:HD2	2.23	0.62
17:AQ:28:VAL:HG12	17:AQ:30:VAL:HG12	1.81	0.62
17:AQ:28:VAL:CG2	17:AQ:93:ARG:C	2.71	0.62
17:AQ:35:LYS:O	17:AQ:36:GLU:O	2.17	0.62
18:AR:88:ILE:HG12	19:AS:52:VAL:HG22	1.80	0.62
18:AR:95:LEU:HD23	18:AR:95:LEU:N	2.13	0.62
20:AT:8:ARG:C	20:AT:102:HIS:CD2	2.77	0.62
21:AU:12:VAL:C	21:AU:14:SER:H	2.07	0.62
26:AZ:36:VAL:O	26:AZ:36:VAL:HG23	1.99	0.62
30:Ad:43:THR:N	30:Ad:44:PRO:CD	2.61	0.62
32:Af:9:ARG:C	32:Af:10:ILE:HG13	2.24	0.62
34:BA:21:G:N2	34:BA:915:A:N6	2.46	0.62
34:BA:224:C:C2	34:BA:225:C:C5	2.87	0.62
34:BA:607:A:O2'	34:BA:608:A:H5'	1.99	0.62
34:BA:687:A:O2'	34:BA:688:G:P	2.56	0.62
34:BA:710:G:O2'	34:BA:711:G:H5'	1.99	0.62
34:BA:750:G:N3	48:BS:23:GLY:O	2.32	0.62
34:BA:1298:C:O2	34:BA:1298:C:H2'	1.97	0.62
34:BA:1373:G:H5''	40:BK:36:LYS:HB2	1.81	0.62
35:BF:60:ASP:C	35:BF:64:ARG:NH1	2.57	0.62
35:BF:214:ILE:O	35:BF:217:ARG:HB2	1.99	0.62
35:BF:224:GLN:HA	35:BF:229:VAL:HG22	1.81	0.62
36:BG:64:VAL:O	36:BG:99:VAL:HG11	1.99	0.62
37:BH:150:GLU:O	37:BH:152:SER:N	2.32	0.62
39:BJ:33:TYR:CE2	39:BJ:74:ASP:HB2	2.32	0.62
41:BL:6:ILE:HG13	41:BL:85:ARG:NH2	2.14	0.62
43:BN:7:LYS:HG3	43:BN:71:LEU:HD13	1.80	0.62
45:BP:30:ALA:HB1	45:BP:31:PRO:HD2	1.80	0.62
46:BQ:13:LYS:HG2	46:BQ:17:VAL:HG11	1.80	0.62
47:BR:40:CYS:HB2	47:BR:42:ILE:HG13	1.80	0.62
49:BT:14:ASN:HB2	49:BT:42:ARG:HH12	1.63	0.62
49:BT:23:ASP:CG	49:BT:33:ILE:HD11	2.23	0.62
50:BU:104:LYS:HD3	50:BU:105:ALA:CB	2.29	0.62
55:CA:67:ASP:OD1	55:CA:68:TYR:HA	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:101:ALA:HB2	55:CA:127:ILE:HG22	1.82	0.62
55:CA:128:ASN:HA	55:CA:164:TYR:O	1.98	0.62
55:CA:141:VAL:CG2	55:CA:164:TYR:CZ	2.79	0.62
55:CA:172:ALA:CA	55:CA:179:MET:CE	2.76	0.62
1:AA:35:G:O4'	1:AA:454:A:H1'	1.99	0.62
1:AA:49:A:C6	1:AA:177:G:C2	2.86	0.62
1:AA:182:A:C2	1:AA:183:C:C2	2.87	0.62
1:AA:200:U:H3'	1:AA:201:C:C5'	2.27	0.62
1:AA:321:G:H4'	6:AF:165:ARG:O	1.98	0.62
1:AA:404:C:H5'	1:AA:406:G:C1'	2.28	0.62
1:AA:469:G:OP2	6:AF:59:TYR:CE2	2.51	0.62
1:AA:641:C:H2'	1:AA:642:G:H5'	1.79	0.62
1:AA:942:G:C2	1:AA:943:U:N3	2.67	0.62
1:AA:972:G:C5	1:AA:973:A:N7	2.67	0.62
1:AA:1457:A:C2'	1:AA:1458:C:H5'	2.30	0.62
1:AA:1572:A:O2'	1:AA:1573:G:OP1	2.16	0.62
1:AA:1612:C:O3'	30:Ad:5:TRP:CD1	2.52	0.62
1:AA:1672:C:C5	1:AA:1673:U:H6	2.17	0.62
1:AA:1684:C:H2'	1:AA:1685:C:C6	2.33	0.62
1:AA:1819:A:C5'	4:AD:178:PRO:HG3	2.21	0.62
1:AA:1848:A:H2'	1:AA:1849:G:O4'	1.99	0.62
1:AA:1964:G:O2'	1:AA:1965:C:OP1	2.17	0.62
1:AA:1992:G:C1'	1:AA:1993:U:C5	2.80	0.62
1:AA:2093:G:H2'	1:AA:2094:G:O5'	1.99	0.62
1:AA:2227:A:C6	1:AA:2228:G:C5	2.87	0.62
1:AA:2284:C:OP1	29:Ac:9:LEU:HB2	1.99	0.62
1:AA:2346:A:N3	1:AA:2383:G:C4	2.66	0.62
1:AA:2415:G:C6	1:AA:2416:C:N4	2.67	0.62
1:AA:2458:G:H2'	1:AA:2460:U:C4	2.34	0.62
1:AA:2532:G:H4'	1:AA:2657:A:C6	2.34	0.62
1:AA:2547:U:C2'	1:AA:2548:G:H5''	2.29	0.62
1:AA:2583:G:N3	1:AA:2584:U:O2	2.32	0.62
1:AA:2670:A:C2	1:AA:2671:A:N9	2.66	0.62
1:AA:2674:G:C4	1:AA:2675:A:C8	2.87	0.62
2:AB:77:U:OP1	23:AW:19:ARG:NH1	2.32	0.62
2:AB:102:G:C2	2:AB:103:U:O4	2.52	0.62
3:AC:62:VAL:CB	3:AC:195:ALA:HB2	2.29	0.62
4:AD:5:LYS:CB	4:AD:82:ILE:HD12	2.29	0.62
4:AD:7:LYS:HA	4:AD:26:LYS:O	1.99	0.62
4:AD:94:LEU:HD22	4:AD:104:TYR:CE1	2.33	0.62
4:AD:146:GLU:HA	4:AD:154:LYS:HG2	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:175:LEU:O	4:AD:175:LEU:HD13	1.98	0.62
4:AD:181:GLU:HB3	4:AD:268:ARG:NE	2.12	0.62
4:AD:226:MET:CE	4:AD:237:GLU:H	2.11	0.62
8:AH:127:GLU:HG3	8:AH:130:ARG:CB	2.28	0.62
9:AI:54:ALA:C	9:AI:56:ASN:H	2.07	0.62
10:AJ:34:ILE:HD13	10:AJ:63:ARG:HH22	1.63	0.62
11:AK:37:LYS:HD2	11:AK:43:THR:N	2.14	0.62
12:AL:11:ALA:HB3	12:AL:97:ARG:HH12	1.64	0.62
13:AM:74:GLU:CB	13:AM:111:ARG:O	2.31	0.62
13:AM:131:SER:O	13:AM:134:ALA:CB	2.43	0.62
14:AN:7:MET:O	14:AN:70:PRO:HD2	1.98	0.62
14:AN:75:THR:HA	14:AN:91:GLU:CG	2.29	0.62
15:AO:8:ARG:NH2	15:AO:17:ARG:HD2	2.14	0.62
15:AO:10:LEU:HB2	15:AO:17:ARG:NH1	2.14	0.62
15:AO:55:ALA:CA	15:AO:79:LEU:HD21	2.28	0.62
16:AP:3:ARG:HG3	16:AP:3:ARG:HH11	1.64	0.62
16:AP:10:ARG:O	16:AP:12:PHE:N	2.33	0.62
17:AQ:28:VAL:HG13	17:AQ:92:GLY:CA	2.29	0.62
17:AQ:110:ILE:HD12	17:AQ:113:LYS:HE3	1.82	0.62
22:AV:81:LYS:HG2	22:AV:96:ILE:CG2	2.28	0.62
22:AV:83:THR:HG22	22:AV:84:ARG:N	2.13	0.62
24:AX:21:LEU:O	24:AX:24:LYS:HE3	1.98	0.62
25:AY:38:GLN:N	25:AY:41:GLN:NE2	2.39	0.62
25:AY:46:ARG:HE	25:AY:50:ARG:NH1	1.96	0.62
27:Aa:47:GLN:HA	27:Aa:52:THR:OG1	1.98	0.62
28:Ab:51:TYR:HD2	28:Ab:55:ARG:N	1.97	0.62
28:Ab:55:ARG:H	28:Ab:55:ARG:CD	2.10	0.62
30:Ad:8:ASN:ND2	30:Ad:10:ARG:HB2	2.14	0.62
34:BA:36:C:N3	34:BA:37:U:O2	2.32	0.62
34:BA:50:A:O2'	34:BA:360:A:H2	1.82	0.62
34:BA:186:C:O2'	53:BX:85:MET:SD	2.56	0.62
34:BA:518:C:H3'	34:BA:530:G:N2	2.13	0.62
34:BA:544:G:H2'	34:BA:545:C:H6	1.64	0.62
34:BA:560:U:O4'	34:BA:566:G:N2	2.31	0.62
34:BA:706:A:C2	34:BA:707:C:C6	2.86	0.62
34:BA:762:C:C2	34:BA:763:G:N7	2.68	0.62
34:BA:815:A:N1	34:BA:1529:G:C2	2.67	0.62
34:BA:826:C:C5'	41:BL:12:ARG:HH21	2.12	0.62
34:BA:830:G:C6	34:BA:831:U:C4	2.87	0.62
34:BA:1105:A:N3	34:BA:1106:G:C8	2.68	0.62
34:BA:1196:U:H4'	34:BA:1197:G:O5'	1.98	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1252:A:C5	34:BA:1253:G:N7	2.67	0.62
35:BF:111:ARG:HA	35:BF:111:ARG:NH1	2.08	0.62
38:BI:28:PHE:HE1	38:BI:49:PRO:C	2.06	0.62
40:BK:37:ASN:CG	40:BK:38:LEU:H	2.07	0.62
41:BL:34:GLU:O	41:BL:38:ILE:HG12	1.99	0.62
41:BL:84:ARG:HH11	41:BL:84:ARG:CB	1.99	0.62
44:BO:69:ALA:HB1	44:BO:103:LEU:CD1	2.28	0.62
47:BR:12:ARG:O	47:BR:13:THR:C	2.41	0.62
52:BW:53:ASN:ND2	52:BW:56:GLN:HB2	2.07	0.62
55:CA:267:LEU:HG	55:CA:268:ALA:H	1.64	0.62
55:CA:377:GLY:C	55:CA:582:PRO:HG2	2.23	0.62
55:CA:406:ASP:C	55:CA:407:VAL:HG13	2.23	0.62
55:CA:438:ARG:NH2	55:CA:440:ASP:OD2	2.32	0.62
1:AA:13:A:H61	1:AA:525:U:H2'	1.63	0.62
1:AA:80:G:H1'	1:AA:347:A:N6	2.14	0.62
1:AA:84:A:H1'	1:AA:103:A:H61	1.64	0.62
1:AA:141:A:C2	1:AA:1597:A:H5'	2.34	0.62
1:AA:144:C:C2'	1:AA:145:G:H5'	2.29	0.62
1:AA:220:G:N2	1:AA:265:A:N6	2.47	0.62
1:AA:270(L):U:H2'	1:AA:270(L):U:O2	1.98	0.62
1:AA:295:G:C1'	1:AA:345:A:H2	2.12	0.62
1:AA:439:G:H2'	1:AA:440:G:H8	1.64	0.62
1:AA:464:U:O5'	1:AA:464:U:C6	2.50	0.62
1:AA:493:G:N2	1:AA:494:G:H1'	2.14	0.62
1:AA:638:G:H2'	1:AA:639:U:H5'	1.81	0.62
1:AA:643:A:H1'	1:AA:644:A:C8	2.35	0.62
1:AA:828:U:C6	1:AA:829:A:N7	2.68	0.62
1:AA:852:G:O4'	26:AZ:42:ALA:HA	1.99	0.62
1:AA:942:G:O3'	13:AM:32:THR:HA	1.99	0.62
1:AA:988:A:C3'	26:AZ:10:LYS:NZ	2.57	0.62
1:AA:1054:A:H2'	1:AA:1055:G:H8	1.59	0.62
1:AA:1058:G:H2'	1:AA:1059:G:C5'	2.30	0.62
1:AA:1065:U:H2'	1:AA:1066:U:H5''	1.80	0.62
1:AA:1071:G:H2'	1:AA:1072:C:H5''	1.81	0.62
1:AA:1359:A:N1	1:AA:1360:A:C4	2.67	0.62
1:AA:1764:G:O2'	1:AA:1765:C:C5'	2.45	0.62
1:AA:1773:A:H2'	1:AA:1774:C:O4'	1.99	0.62
1:AA:1800:C:C6	1:AA:1800:C:C3'	2.68	0.62
1:AA:1826:G:O5'	1:AA:1826:G:H8	1.82	0.62
1:AA:2122:U:H2'	1:AA:2123:G:C5'	2.25	0.62
1:AA:2392:A:C2'	1:AA:2393:A:O5'	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2646:C:C5	1:AA:2647:U:C4	2.87	0.62
1:AA:2807:G:N3	1:AA:2808:U:C6	2.66	0.62
1:AA:2849:U:C6	1:AA:2849:U:C3'	2.82	0.62
2:AB:30:C:O4'	2:AB:58:A:H2	1.81	0.62
3:AC:190:ARG:O	3:AC:193:ILE:N	2.33	0.62
4:AD:7:LYS:HD2	4:AD:91:ARG:HE	1.64	0.62
4:AD:53:PHE:O	4:AD:54:ARG:C	2.40	0.62
4:AD:118:VAL:O	4:AD:119:ALA:HB2	1.98	0.62
5:AE:8:LYS:HZ2	17:AQ:3:ARG:HG2	1.62	0.62
6:AF:41:LEU:CA	6:AF:44:ARG:NE	2.63	0.62
7:AG:173:LEU:HG	7:AG:173:LEU:O	1.98	0.62
11:AK:14:VAL:HG22	11:AK:138:LEU:CD1	2.29	0.62
11:AK:31:ALA:O	11:AK:33:LEU:N	2.32	0.62
14:AN:16:ARG:CG	14:AN:72:LYS:HD2	2.26	0.62
16:AP:106:ARG:NH2	16:AP:110:LEU:CD2	2.58	0.62
19:AS:28:GLU:O	19:AS:30:GLY:N	2.32	0.62
19:AS:61:VAL:C	19:AS:99:ILE:HB	2.23	0.62
19:AS:65:GLY:CA	19:AS:97:LYS:HZ1	2.12	0.62
21:AU:5:TYR:CB	25:AY:24:LYS:HD3	2.29	0.62
22:AV:76:CYS:CB	22:AV:100:ALA:HB3	2.28	0.62
22:AV:82:PRO:HD3	22:AV:97:ARG:H	1.63	0.62
23:AW:44:PHE:HD2	23:AW:48:PHE:CE2	2.17	0.62
23:AW:76:LEU:HD23	23:AW:83:PRO:HB3	1.80	0.62
23:AW:180:VAL:O	23:AW:180:VAL:HG12	1.99	0.62
27:Aa:14:ILE:HB	27:Aa:37:SER:O	1.99	0.62
34:BA:490:G:H2'	34:BA:491:G:C8	2.34	0.62
34:BA:538:G:OP1	45:BP:114:LYS:N	2.33	0.62
34:BA:553:A:H2'	34:BA:554:C:O4'	1.99	0.62
34:BA:812:C:O2	34:BA:813:U:H5	1.82	0.62
34:BA:895:G:H2'	34:BA:896:C:C6	2.35	0.62
34:BA:1114:C:C2	34:BA:1115:C:C5	2.88	0.62
34:BA:1117:G:N9	34:BA:1184:G:C2	2.66	0.62
34:BA:1148:U:O2	34:BA:1149:C:N1	2.33	0.62
34:BA:1216:G:H5''	47:BR:5:ALA:CB	2.29	0.62
34:BA:1296:C:C1'	34:BA:1302:U:O4	2.47	0.62
34:BA:1308:U:P	46:BQ:99:ARG:H	2.22	0.62
34:BA:1346:A:H62	34:BA:1374:A:H3'	1.61	0.62
35:BF:9:GLU:HG2	35:BF:10:LEU:N	2.15	0.62
35:BF:115:LEU:HB2	35:BF:145:LEU:CD2	2.29	0.62
35:BF:175:ARG:HA	35:BF:178:ARG:HG3	1.81	0.62
35:BF:200:ILE:O	35:BF:202:PRO:CD	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:211:ILE:HG22	35:BF:212:GLN:N	2.14	0.62
36:BG:29:TYR:CD2	36:BG:29:TYR:C	2.76	0.62
37:BH:52:SER:C	37:BH:54:TYR:H	2.06	0.62
37:BH:120:LEU:HA	37:BH:125:HIS:NE2	2.14	0.62
38:BI:79:GLU:HB3	38:BI:92:LYS:CA	2.23	0.62
39:BJ:44:GLY:HA2	39:BJ:59:TYR:CZ	2.34	0.62
40:BK:35:LYS:HE2	40:BK:38:LEU:HB2	1.82	0.62
40:BK:153:HIS:HE1	44:BO:58:PRO:CD	2.11	0.62
41:BL:11:THR:O	41:BL:13:ILE:N	2.33	0.62
43:BN:60:ARG:HB2	43:BN:60:ARG:CZ	2.29	0.62
44:BO:62:GLN:O	44:BO:66:LEU:HG	1.99	0.62
49:BT:53:VAL:HG23	49:BT:54:GLU:N	2.15	0.62
50:BU:25:ARG:HH21	50:BU:40:LYS:CD	1.99	0.62
51:BV:51:LEU:N	51:BV:51:LEU:CD1	2.63	0.62
53:BX:64:ASP:O	53:BX:65:LYS:C	2.41	0.62
55:CA:19:THR:HB	55:CA:22:VAL:CG2	2.19	0.62
55:CA:374:ARG:CZ	55:CA:585:ILE:HG12	2.29	0.62
55:CA:401:GLU:HB3	55:CA:468:THR:N	2.14	0.62
1:AA:270(C):C:OP1	1:AA:365:C:H1'	1.99	0.62
1:AA:304:G:H2'	1:AA:305:U:C6	2.34	0.62
1:AA:348:G:H2'	1:AA:349:G:H8	1.63	0.62
1:AA:351:G:O2'	1:AA:352:G:P	2.57	0.62
1:AA:391:G:H2'	1:AA:392:C:H6	1.56	0.62
1:AA:522:G:O2'	1:AA:523:C:H5'	1.99	0.62
1:AA:566:U:C5'	19:AS:82:ARG:CZ	2.75	0.62
1:AA:627:A:H5''	13:AM:75:ILE:CB	2.28	0.62
1:AA:704:G:H22	1:AA:726:G:C1'	2.12	0.62
1:AA:811:U:C4	13:AM:23:PRO:HD3	2.34	0.62
1:AA:834:C:O2'	1:AA:2358:G:N3	2.26	0.62
1:AA:989:G:H2'	1:AA:990:A:OP2	1.99	0.62
1:AA:1023:U:OP1	1:AA:1025:G:N2	2.33	0.62
1:AA:1263:U:H4'	28:Ab:10:LYS:CD	2.30	0.62
1:AA:1335:U:OP2	21:AU:65:ARG:NE	2.31	0.62
1:AA:1508:A:N3	1:AA:1508:A:OP2	2.32	0.62
1:AA:1527:G:N2	1:AA:1545:A:N7	2.46	0.62
1:AA:1743:G:O6	1:AA:1746:G:C6	2.52	0.62
1:AA:1798:U:H5'	1:AA:1803:A:H4'	1.82	0.62
1:AA:1935:G:C4	1:AA:1962:C:C4	2.88	0.62
1:AA:1971:A:C2	4:AD:239:ARG:HA	2.34	0.62
1:AA:2352:A:C2	1:AA:2353:G:H1'	2.34	0.62
1:AA:2413:G:C2	1:AA:2414:G:H1'	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2436:G:H2'	1:AA:2437:U:H6	1.64	0.62
1:AA:2484:G:N3	14:AN:124:LYS:HE2	2.14	0.62
1:AA:2603:G:O2'	1:AA:2604:U:H5'	2.00	0.62
1:AA:2876:G:OP1	17:AQ:2:ASN:CB	2.47	0.62
2:AB:76:G:H5'	23:AW:85:HIS:CE1	2.33	0.62
3:AC:26:ALA:O	3:AC:30:LYS:HG3	1.98	0.62
3:AC:29:VAL:HG21	3:AC:41:VAL:HG11	1.80	0.62
3:AC:100:ILE:O	3:AC:104:LEU:HD23	1.99	0.62
4:AD:5:LYS:CE	4:AD:31:LYS:HZ2	2.12	0.62
4:AD:37:LEU:HD12	4:AD:62:TYR:O	1.98	0.62
4:AD:137:PRO:HG2	4:AD:140:THR:OG1	1.98	0.62
4:AD:259:THR:CG2	4:AD:260:ARG:HH12	2.13	0.62
5:AE:182:LEU:HD23	5:AE:183:LEU:N	2.14	0.62
7:AG:2:PRO:HA	7:AG:5:VAL:CG2	2.30	0.62
7:AG:27:ASN:HB3	7:AG:29:TRP:CE2	2.35	0.62
11:AK:12:ARG:HD2	11:AK:50:ASP:HA	1.81	0.62
11:AK:62:VAL:C	11:AK:64:GLY:H	2.07	0.62
11:AK:100:GLU:HA	11:AK:103:VAL:HG13	1.81	0.62
12:AL:96:THR:CG2	12:AL:97:ARG:H	1.89	0.62
15:AO:53:HIS:HA	15:AO:56:LYS:HD3	1.80	0.62
17:AQ:43:GLN:H	17:AQ:43:GLN:CD	2.05	0.62
17:AQ:68:TYR:CZ	17:AQ:70:VAL:HG22	2.34	0.62
17:AQ:104:ASN:CA	17:AQ:107:ASP:OD2	2.47	0.62
18:AR:98:LEU:HB3	18:AR:105:VAL:HG13	1.80	0.62
20:AT:43:GLY:O	20:AT:47:VAL:HG23	1.99	0.62
20:AT:91:GLY:O	20:AT:92:ARG:O	2.17	0.62
20:AT:103:ILE:H	20:AT:103:ILE:HD13	1.62	0.62
25:AY:12:SER:CB	25:AY:13:PRO:CD	2.78	0.62
26:AZ:6:VAL:HB	26:AZ:54:VAL:HG21	1.80	0.62
26:AZ:24:LYS:HA	26:AZ:27:GLY:O	1.98	0.62
28:Ab:12:SER:HB3	28:Ab:14:ALA:HB3	1.82	0.62
29:Ac:16:CYS:SG	29:Ac:19:ARG:NE	2.72	0.62
29:Ac:30:THR:CB	29:Ac:31:PRO:CD	2.77	0.62
30:Ad:21:ARG:HB2	30:Ad:21:ARG:CZ	2.30	0.62
31:Ae:52:LYS:O	31:Ae:54:GLU:N	2.28	0.62
34:BA:68:G:O4'	34:BA:171:A:H1'	1.99	0.62
34:BA:190:G:H8	34:BA:190:G:OP1	1.82	0.62
34:BA:333:G:H4'	53:BX:16:HIS:HD2	1.65	0.62
34:BA:375:U:O2'	49:BT:6:LEU:CD2	2.48	0.62
34:BA:580:U:H3'	34:BA:581:G:C8	2.34	0.62
34:BA:730:G:H2'	34:BA:731:G:H5'	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:755:G:H2'	34:BA:756:C:C5	2.34	0.62
34:BA:937:A:N7	34:BA:938:A:N7	2.48	0.62
34:BA:1269:A:C4	34:BA:1312:G:N3	2.66	0.62
34:BA:1305:G:H21	34:BA:1331:G:H2'	1.64	0.62
34:BA:1308:U:C4	34:BA:1309:G:OP2	2.34	0.62
34:BA:1321:C:H2'	34:BA:1322:C:C6	2.34	0.62
34:BA:1363:A:H1'	34:BA:1365:G:C6	2.34	0.62
34:BA:1437:C:H2'	34:BA:1438:G:C8	2.32	0.62
35:BF:64:ARG:HD2	35:BF:64:ARG:H	1.63	0.62
36:BG:53:ALA:CB	36:BG:115:LEU:HD21	2.27	0.62
36:BG:57:ILE:HG22	36:BG:59:ARG:HH21	1.63	0.62
36:BG:138:VAL:HG22	36:BG:151:VAL:HG21	1.81	0.62
36:BG:182:ILE:CA	36:BG:204:LEU:HG	2.21	0.62
37:BH:26:CYS:O	37:BH:31:CYS:SG	2.57	0.62
37:BH:78:LEU:O	37:BH:79:PHE:C	2.43	0.62
37:BH:100:ARG:HB2	37:BH:103:ASN:HB2	1.82	0.62
38:BI:79:GLU:CG	38:BI:93:PRO:HD2	2.30	0.62
40:BK:29:LYS:CD	40:BK:101:LEU:HD22	2.28	0.62
40:BK:70:LYS:HA	40:BK:100:ALA:HB2	1.81	0.62
41:BL:26:VAL:CG2	41:BL:27:PRO:HD2	2.23	0.62
41:BL:67:PRO:O	41:BL:76:PRO:HA	1.99	0.62
42:BM:66:ARG:HG2	42:BM:67:GLY:N	2.15	0.62
43:BN:6:ILE:HG22	43:BN:98:ILE:HA	1.81	0.62
43:BN:79:ARG:NH1	43:BN:82:ILE:HB	2.15	0.62
46:BQ:25:ILE:CG1	46:BQ:66:LEU:HD21	2.29	0.62
47:BR:16:PHE:CZ	52:BW:14:HIS:CD2	2.87	0.62
48:BS:33:THR:HG23	48:BS:87:ILE:HD12	1.80	0.62
52:BW:18:LYS:CE	52:BW:22:LEU:HD12	2.29	0.62
52:BW:51:VAL:CG2	52:BW:60:VAL:HG21	2.30	0.62
53:BX:85:MET:HA	53:BX:88:VAL:CG2	2.28	0.62
55:CA:156:GLU:CG	55:CA:159:ASP:HB2	2.24	0.62
55:CA:180:ALA:HB3	55:CA:181:GLU:CA	2.28	0.62
1:AA:2:G:N9	1:AA:2902:C:O2	2.31	0.62
1:AA:6:A:O2'	1:AA:7:G:H5'	1.99	0.62
1:AA:120:U:H1'	1:AA:149:A:N3	2.14	0.62
1:AA:270(I):G:H2'	1:AA:270(J):G:O4'	2.00	0.62
1:AA:672:C:OP2	13:AM:38:GLN:CG	2.47	0.62
1:AA:820:A:C2	1:AA:821:A:O4'	2.52	0.62
1:AA:949:C:C2	1:AA:950:G:C8	2.88	0.62
1:AA:1189:A:H5''	1:AA:1190:G:OP2	2.00	0.62
1:AA:1195:G:H2'	1:AA:1226:G:N2	2.14	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1212:G:O2'	1:AA:1213:A:C8	2.51	0.62
1:AA:1229:G:H2'	1:AA:1230:C:O4'	1.99	0.62
1:AA:1420:U:O2'	1:AA:1421:G:H5''	1.97	0.62
1:AA:1650:G:H5'	15:AO:104:ARG:HH21	1.63	0.62
1:AA:1655:A:H4'	5:AE:113:PHE:C	2.24	0.62
1:AA:1657:C:C2	1:AA:1658:C:C6	2.87	0.62
1:AA:1742:C:C2	1:AA:1743:G:O4'	2.53	0.62
1:AA:1819:A:OP2	4:AD:157:ARG:CZ	2.47	0.62
1:AA:1904:G:C2'	1:AA:1905:C:H5'	2.28	0.62
1:AA:1916:A:O2'	1:AA:1917:U:O4'	2.16	0.62
1:AA:1931:U:H2'	1:AA:1932:A:H8	1.65	0.62
1:AA:1997:G:N1	1:AA:1998:G:C6	2.67	0.62
1:AA:2033:A:O2'	1:AA:2034:U:OP1	2.16	0.62
1:AA:2142:C:C4	1:AA:2143:C:N4	2.67	0.62
1:AA:2245:U:O2	1:AA:2435:A:C8	2.53	0.62
1:AA:2284:C:H5''	29:Ac:9:LEU:HD21	1.81	0.62
1:AA:2538:C:H2'	1:AA:2539:C:H6	1.61	0.62
1:AA:2563:U:H4'	12:AL:28:SER:CB	2.29	0.62
1:AA:2603:G:C5	1:AA:2604:U:C5	2.87	0.62
1:AA:2720:U:O4	1:AA:2872:G:C6	2.52	0.62
1:AA:2741:A:H2'	1:AA:2742:C:O4'	1.98	0.62
1:AA:2781:A:H2'	1:AA:2782:G:C2'	2.29	0.62
1:AA:2784:C:H4'	5:AE:40:GLU:OE1	1.98	0.62
2:AB:75:G:H2'	23:AW:85:HIS:CE1	2.31	0.62
4:AD:63:ARG:HD2	4:AD:85:ASP:CB	2.28	0.62
5:AE:120:TRP:CD1	5:AE:120:TRP:C	2.77	0.62
6:AF:34:TRP:HD1	6:AF:38:ARG:NH2	1.98	0.62
6:AF:74:ARG:O	6:AF:75:HIS:CB	2.48	0.62
8:AH:44:VAL:O	8:AH:50:VAL:HA	2.00	0.62
8:AH:127:GLU:HB2	8:AH:130:ARG:O	2.00	0.62
10:AJ:92:GLY:CA	10:AJ:93:ARG:HB2	2.18	0.62
11:AK:87:LEU:O	11:AK:91:LEU:CG	2.47	0.62
12:AL:21:CYS:HA	12:AL:41:ALA:CB	2.28	0.62
12:AL:31:LYS:C	12:AL:32:TYR:CG	2.78	0.62
12:AL:116:SER:CB	34:BA:343:U:O4	2.48	0.62
13:AM:79:ARG:CZ	13:AM:79:ARG:HA	2.29	0.62
13:AM:88:LEU:HG	13:AM:124:LYS:HE3	1.80	0.62
14:AN:121:ALA:O	14:AN:125:LEU:CG	2.44	0.62
15:AO:77:ARG:O	15:AO:78:LYS:C	2.42	0.62
17:AQ:28:VAL:HG22	17:AQ:93:ARG:C	2.25	0.62
18:AR:39:LEU:O	18:AR:40:PHE:C	2.41	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:2:ARG:CD	22:AV:3:VAL:N	2.56	0.62
22:AV:47:LYS:HE2	22:AV:49:VAL:HG11	1.80	0.62
23:AW:24:LEU:HD13	23:AW:83:PRO:CG	2.29	0.62
33:Ag:7:UNK:CB	33:Ag:147:UNK:CB	2.77	0.62
33:Ag:8:UNK:CB	33:Ag:147:UNK:CA	2.70	0.62
34:BA:28:G:O2'	34:BA:296:U:OP1	2.16	0.62
34:BA:50:A:C6	34:BA:361:G:H4'	2.33	0.62
34:BA:228:A:H2'	34:BA:229:U:C5'	2.28	0.62
34:BA:520:A:N6	34:BA:529:G:C2	2.67	0.62
34:BA:541:G:H4'	37:BH:42:GLN:CB	2.30	0.62
34:BA:620:C:O2'	34:BA:621:A:H5'	1.98	0.62
34:BA:627:G:H2'	34:BA:628:G:H8	1.63	0.62
34:BA:817:C:O2'	34:BA:818:G:P	2.57	0.62
34:BA:866:C:C6	34:BA:867:G:H1'	2.35	0.62
34:BA:1055:A:N6	34:BA:1206:G:C5	2.68	0.62
34:BA:1219:U:H2'	52:BW:52:TYR:HE2	1.64	0.62
35:BF:21:ARG:O	35:BF:23:ARG:HD3	1.99	0.62
35:BF:158:LEU:HB2	35:BF:160:ASP:OD2	1.99	0.62
36:BG:150:LYS:CB	36:BG:173:VAL:HG21	2.22	0.62
37:BH:43:HIS:O	37:BH:46:LYS:HB2	1.99	0.62
37:BH:57:ARG:NH2	38:BI:107:ARG:HD3	2.14	0.62
44:BO:14:VAL:O	44:BO:14:VAL:HG12	1.99	0.62
44:BO:48:ILE:HD11	44:BO:64:ALA:CB	2.29	0.62
44:BO:54:ARG:C	44:BO:56:GLY:H	2.07	0.62
44:BO:66:LEU:C	44:BO:70:LYS:HZ2	2.07	0.62
44:BO:114:VAL:HG22	44:BO:115:PRO:N	2.14	0.62
45:BP:24:VAL:HG22	45:BP:98:TYR:CE1	2.34	0.62
46:BQ:81:LEU:CD1	46:BQ:81:LEU:H	2.13	0.62
51:BV:21:LYS:CE	51:BV:23:LYS:HB3	2.28	0.62
54:BY:11:GLY:O	54:BY:15:ARG:HG2	1.99	0.62
55:CA:107:PRO:O	55:CA:110:ARG:HB2	2.00	0.62
55:CA:205:PHE:CA	55:CA:229:GLY:HA3	2.28	0.62
55:CA:382:VAL:O	55:CA:572:ILE:CD1	2.47	0.62
1:AA:128:C:H2'	1:AA:129:C:H6	1.64	0.62
1:AA:515:A:H5''	18:AR:32:PHE:CZ	2.34	0.62
1:AA:684:G:C2'	1:AA:687:C:N4	2.55	0.62
1:AA:852:G:C5'	26:AZ:45:GLY:HA3	2.27	0.62
1:AA:917:A:H3'	1:AA:918:A:C5'	2.29	0.62
1:AA:1038:C:O3'	1:AA:1039:G:C3'	2.44	0.62
1:AA:1449:A:C8	1:AA:1529:A:N1	2.67	0.62
1:AA:1563:G:H2'	1:AA:1564:C:H6	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1587:A:H2'	1:AA:1588:C:C6	2.34	0.62
1:AA:1829:A:C2	1:AA:1830:C:H1'	2.35	0.62
1:AA:1909:C:O2'	1:AA:1910:G:H5'	1.99	0.62
1:AA:1992:G:C5	1:AA:1997:G:C4	2.88	0.62
1:AA:1992:G:H22	1:AA:1995:U:H5	1.47	0.62
1:AA:2044:C:C6	1:AA:2625:G:N2	2.67	0.62
1:AA:2199:A:C5	1:AA:2225:A:N1	2.67	0.62
1:AA:2548:G:H5'	1:AA:2548:G:C8	2.32	0.62
1:AA:2641:G:H5'	11:AK:75:TYR:CG	2.35	0.62
1:AA:2689:U:O2	1:AA:2713:A:OP1	2.17	0.62
1:AA:2787:C:H1'	5:AE:61:ARG:NH1	2.15	0.62
1:AA:2793:G:C2	1:AA:2794:C:C2	2.87	0.62
2:AB:12:C:H5''	24:AX:74:ARG:CG	2.27	0.62
2:AB:45:A:H1'	7:AG:95:ARG:NH1	2.15	0.62
4:AD:8:PRO:CD	4:AD:26:LYS:H	2.12	0.62
4:AD:84:TYR:CD2	4:AD:91:ARG:HG3	2.35	0.62
5:AE:116:VAL:O	5:AE:120:TRP:NE1	2.33	0.62
6:AF:103:LYS:C	6:AF:106:ARG:HG2	2.24	0.62
7:AG:47:LYS:HD3	7:AG:72:ARG:O	1.99	0.62
8:AH:85:LYS:HD2	8:AH:145:ALA:HB1	1.81	0.62
11:AK:33:LEU:C	11:AK:35:ARG:N	2.57	0.62
11:AK:95:PRO:HA	11:AK:98:VAL:CG2	2.29	0.62
12:AL:62:VAL:HG23	12:AL:83:ALA:CA	2.17	0.62
12:AL:122:LEU:C	17:AQ:74:ARG:NH2	2.58	0.62
14:AN:6:ARG:CG	14:AN:7:MET:N	2.62	0.62
14:AN:120:ILE:O	14:AN:121:ALA:C	2.43	0.62
15:AO:61:HIS:CE1	15:AO:64:ARG:NE	2.68	0.62
19:AS:69:LYS:HG2	19:AS:70:ILE:N	2.14	0.62
20:AT:21:VAL:HG22	20:AT:25:ARG:HG3	1.80	0.62
20:AT:33:ARG:HD3	20:AT:37:ARG:CD	2.30	0.62
23:AW:115:GLY:O	23:AW:117:LEU:HD12	2.00	0.62
24:AX:50:ASN:HB3	24:AX:63:VAL:HG13	1.82	0.62
34:BA:8:A:N6	37:BH:209:ARG:NH1	2.46	0.62
34:BA:52:G:O2'	34:BA:53:A:H5'	1.99	0.62
34:BA:56:U:H2'	34:BA:57:G:H8	1.64	0.62
34:BA:375:U:H4'	49:BT:17:TYR:HE2	1.62	0.62
34:BA:527:G:C2	34:BA:528:C:C2	2.88	0.62
34:BA:579:G:C2'	34:BA:580:U:H5'	2.29	0.62
34:BA:869:G:H4'	34:BA:872:A:C8	2.35	0.62
34:BA:873:A:OP1	34:BA:873:A:C8	2.52	0.62
34:BA:900:A:C5	34:BA:901:A:N7	2.68	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1156:G:H8	34:BA:1156:G:O5'	1.82	0.62
34:BA:1194:U:H2'	34:BA:1195:C:O4'	1.99	0.62
34:BA:1484:C:C2	34:BA:1485:U:C6	2.88	0.62
35:BF:87:ARG:O	35:BF:89:GLY:N	2.32	0.62
35:BF:196:LEU:HA	41:BL:74:PRO:HG3	1.82	0.62
36:BG:91:LEU:HD23	36:BG:92:ALA:N	2.15	0.62
38:BI:96:PRO:HD2	38:BI:98:THR:OG1	1.99	0.62
39:BJ:36:ARG:HB3	39:BJ:36:ARG:CZ	2.28	0.62
40:BK:113:GLU:OE1	40:BK:118:VAL:C	2.42	0.62
41:BL:112:LEU:HD21	41:BL:114:THR:HG23	1.81	0.62
41:BL:126:LYS:HZ1	41:BL:127:LEU:HB2	1.65	0.62
43:BN:5:ARG:HD3	43:BN:6:ILE:N	2.14	0.62
44:BO:125:PHE:N	44:BO:125:PHE:CD1	2.66	0.62
47:BR:4:LYS:O	47:BR:7:ILE:HG13	2.00	0.62
50:BU:9:VAL:HB	50:BU:84:LEU:HD13	1.81	0.62
50:BU:100:LYS:HB3	50:BU:100:LYS:NZ	2.15	0.62
53:BX:23:ARG:HD3	53:BX:24:LEU:H	1.64	0.62
55:CA:101:ALA:HB2	55:CA:127:ILE:CG2	2.29	0.62
55:CA:455:PHE:CZ	55:CA:465:LEU:CD2	2.82	0.62
1:AA:91:A:N3	1:AA:91:A:C2'	2.60	0.62
1:AA:221:A:C5	1:AA:266:G:N7	2.68	0.62
1:AA:269:U:H3'	1:AA:270(Y):G:O2'	1.99	0.62
1:AA:442:G:H4'	6:AF:46:ARG:CG	2.26	0.62
1:AA:506:G:H2'	1:AA:507:A:OP2	2.00	0.62
1:AA:959:A:H2'	1:AA:960:A:H8	1.62	0.62
1:AA:987:G:OP2	26:AZ:13:ILE:CD1	2.47	0.62
1:AA:1034:G:C6	1:AA:1122:G:O6	2.52	0.62
1:AA:1046:A:H1'	9:AI:11:ALA:CB	2.28	0.62
1:AA:1249:U:N3	13:AM:21:ARG:NH2	2.47	0.62
1:AA:1310:G:N7	1:AA:1311:G:N2	2.46	0.62
1:AA:1326:U:H2'	1:AA:1327:C:C5'	2.25	0.62
1:AA:1521:G:H3'	1:AA:1522:G:C5'	2.30	0.62
1:AA:1567:A:H4'	1:AA:1568:G:N1	2.14	0.62
1:AA:1612:C:O3'	30:Ad:5:TRP:HD1	1.82	0.62
1:AA:1838:C:H2'	1:AA:1898:U:O4	1.99	0.62
1:AA:1878:G:O2'	1:AA:1879:C:H5'	1.98	0.62
1:AA:1894:C:O2'	1:AA:1895:C:H5'	1.99	0.62
1:AA:2039:C:H2'	1:AA:2040:C:C6	2.34	0.62
1:AA:2393:A:H5''	13:AM:56:SER:N	2.14	0.62
1:AA:2530:A:C2'	1:AA:2531:A:H5''	2.30	0.62
1:AA:2670:A:C4	1:AA:2671:A:C8	2.85	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2730:C:O2'	1:AA:2731:G:H5'	1.99	0.62
1:AA:2825:C:O5'	1:AA:2825:C:C6	2.52	0.62
2:AB:32:C:H2'	2:AB:32:C:O2	2.00	0.62
2:AB:100:G:C4	2:AB:101:A:N7	2.68	0.62
3:AC:54:SER:HA	3:AC:57:ASN:HD22	1.64	0.62
3:AC:59:ARG:NH1	3:AC:164:ARG:HH11	1.97	0.62
4:AD:155:LEU:HA	4:AD:157:ARG:HH21	1.65	0.62
4:AD:214:TRP:O	4:AD:215:LEU:C	2.42	0.62
5:AE:5:LEU:HA	5:AE:76:ARG:HH12	1.65	0.62
5:AE:9:VAL:HG12	5:AE:192:ASN:ND2	2.14	0.62
5:AE:152:LYS:HE3	5:AE:153:GLY:HA3	1.80	0.62
6:AF:18:ARG:HG3	6:AF:19:GLU:H	1.63	0.62
6:AF:34:TRP:O	6:AF:37:VAL:HB	1.99	0.62
7:AG:18:GLU:OE1	7:AG:22:ARG:NH2	2.30	0.62
7:AG:74:LYS:O	7:AG:75:LYS:HB2	1.97	0.62
7:AG:138:GLN:C	7:AG:140:ILE:H	2.06	0.62
7:AG:157:ILE:HG12	7:AG:158:ALA:H	1.63	0.62
10:AJ:27:LEU:HD21	10:AJ:57:ILE:HB	1.80	0.62
11:AK:22:THR:HG22	11:AK:61:ARG:CZ	2.29	0.62
11:AK:29:LYS:C	11:AK:31:ALA:N	2.52	0.62
11:AK:42:TRP:HE1	18:AR:64:ARG:HG2	1.64	0.62
11:AK:87:LEU:HA	11:AK:90:MET:HB2	1.82	0.62
13:AM:96:THR:O	13:AM:102:ARG:HD3	2.00	0.62
13:AM:111:ARG:HH12	13:AM:113:LYS:HB2	1.63	0.62
14:AN:99:PRO:HD2	14:AN:101:ARG:NE	2.15	0.62
15:AO:6:SER:OG	15:AO:9:LYS:HE2	1.99	0.62
19:AS:7:THR:HG23	19:AS:11:GLN:NE2	2.15	0.62
20:AT:59:VAL:CG2	20:AT:66:GLU:HB2	2.30	0.62
23:AW:102:LEU:HG	23:AW:125:LEU:HG	1.80	0.62
25:AY:48:LEU:HD12	25:AY:51:GLN:HE22	1.64	0.62
26:AZ:28:LEU:HD23	26:AZ:28:LEU:H	1.64	0.62
27:Aa:35:VAL:HG12	27:Aa:36:CYS:N	2.14	0.62
29:Ac:50:ARG:O	29:Ac:51:GLU:CB	2.47	0.62
31:Ae:39:LYS:HA	31:Ae:42:ARG:HD3	1.80	0.62
33:Ag:4:UNK:O	33:Ag:147:UNK:CB	2.48	0.62
34:BA:186:C:O2'	34:BA:186(A):C:H5'	2.00	0.62
34:BA:279:A:N3	34:BA:281:G:N2	2.48	0.62
34:BA:301:G:N2	34:BA:302:G:C4	2.67	0.62
34:BA:308:C:C2	34:BA:309:G:C8	2.86	0.62
34:BA:383:A:H2'	34:BA:384:G:O4'	2.00	0.62
34:BA:591:U:O5'	34:BA:591:U:H6	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:792:A:O2'	34:BA:794:A:N7	2.28	0.62
34:BA:811:C:H6	34:BA:811:C:H3'	1.63	0.62
34:BA:826:C:H5'	41:BL:12:ARG:NE	2.15	0.62
34:BA:843:U:H3'	34:BA:848:C:C5'	2.29	0.62
34:BA:857:C:O2'	34:BA:858:G:H5'	2.00	0.62
34:BA:1137:C:H4'	34:BA:1138:G:N1	2.15	0.62
34:BA:1180:A:O2'	34:BA:1181:G:H5'	2.00	0.62
34:BA:1202:G:H1'	47:BR:29:ARG:HE	1.63	0.62
34:BA:1262:C:H2'	34:BA:1263:C:H6	1.65	0.62
34:BA:1299:A:C5	34:BA:1301:U:H1'	2.34	0.62
34:BA:1418:A:C3'	34:BA:1419:G:H5'	2.30	0.62
35:BF:87:ARG:C	35:BF:89:GLY:N	2.54	0.62
35:BF:92:TYR:H	35:BF:152:PHE:HA	1.64	0.62
35:BF:105:PHE:C	35:BF:107:THR:H	2.06	0.62
35:BF:163:PHE:HE1	35:BF:201:ILE:HD13	1.64	0.62
36:BG:182:ILE:CG2	36:BG:202:ILE:O	2.47	0.62
37:BH:154:ASN:HD22	37:BH:155:LEU:HD22	1.62	0.62
38:BI:141:GLN:O	38:BI:142:LEU:HG	2.00	0.62
39:BJ:46:ARG:HH22	51:BV:37:VAL:HG22	1.64	0.62
39:BJ:52:ILE:HG21	39:BJ:87:ARG:CZ	2.30	0.62
43:BN:3:LYS:HE3	43:BN:77:PRO:CD	2.29	0.62
43:BN:31:GLY:HA3	43:BN:74:ILE:CG2	2.29	0.62
43:BN:94:VAL:CG1	43:BN:95:GLU:H	1.98	0.62
44:BO:57:THR:CG2	44:BO:59:TYR:HB3	2.29	0.62
45:BP:57:LYS:HE2	45:BP:67:THR:HG21	1.82	0.62
46:BQ:65:LYS:HG3	46:BQ:69:GLU:HG2	1.79	0.62
50:BU:66:SER:CB	50:BU:69:LYS:NZ	2.62	0.62
51:BV:80:PRO:HB2	51:BV:82:THR:O	2.00	0.62
53:BX:14:LYS:N	53:BX:17:ARG:HH21	1.98	0.62
55:CA:2:ILE:CD1	55:CA:267:LEU:HB3	2.28	0.62
55:CA:15:ASP:HB2	55:CA:16:HIS:CB	2.26	0.62
55:CA:79:ALA:HA	55:CA:80:ASP:CB	2.18	0.62
55:CA:129:LYS:O	55:CA:132:ARG:HB2	2.00	0.62
55:CA:129:LYS:NZ	57:CA:701:GCP:C4	2.63	0.62
55:CA:338:GLU:OE1	55:CA:338:GLU:HA	1.98	0.62
55:CA:449:ILE:C	55:CA:451:PHE:H	2.08	0.62
1:AA:30:G:OP1	18:AR:8:VAL:HG12	2.00	0.62
1:AA:498:G:H2'	1:AA:499:U:H5'	1.81	0.62
1:AA:565:C:O2'	1:AA:1252:G:N7	2.33	0.62
1:AA:570:G:H22	1:AA:2498:C:C1'	2.12	0.62
1:AA:804:A:C5'	1:AA:805:G:OP1	2.48	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:980:A:C2	1:AA:2038:G:O4'	2.53	0.62
1:AA:1067:A:H5''	10:AJ:21:PRO:HG3	0.76	0.62
1:AA:1223:C:C2	1:AA:1227:A:C2	2.87	0.62
1:AA:1248:G:O2'	1:AA:1249:U:OP1	2.14	0.62
1:AA:1268:A:C4	1:AA:2013:A:N6	2.68	0.62
1:AA:1491:G:H2'	1:AA:1492:G:O3'	1.99	0.62
1:AA:1675:C:C4	5:AE:128:SER:HB2	2.35	0.62
1:AA:1798:U:H5'	4:AD:257:LEU:CB	2.30	0.62
1:AA:2103:C:C2	1:AA:2104:G:N7	2.68	0.62
1:AA:2206:C:H5''	1:AA:2228:G:H21	1.65	0.62
1:AA:2219:G:H2'	1:AA:2224:G:O5'	1.99	0.62
1:AA:2378:A:H5''	1:AA:2379:G:OP2	1.99	0.62
1:AA:2445:G:C2'	1:AA:2446:G:H8	2.07	0.62
1:AA:2651:C:C2	1:AA:2652:C:C5	2.86	0.62
1:AA:2667:C:H2'	1:AA:2668:G:C5'	2.28	0.62
1:AA:2733:A:C8	1:AA:2734:A:C8	2.88	0.62
1:AA:2793:G:C5	1:AA:2794:C:C5	2.88	0.62
2:AB:30:C:C1'	2:AB:58:A:C2	2.82	0.62
2:AB:52:A:H2'	2:AB:52:A:N3	2.15	0.62
2:AB:57:A:H3'	2:AB:57:A:C8	2.34	0.62
2:AB:76:G:P	23:AW:11:GLU:HA	2.39	0.62
3:AC:41:VAL:HG13	3:AC:216:THR:HG22	1.80	0.62
3:AC:90:GLY:HA3	3:AC:157:LYS:CB	2.29	0.62
5:AE:47:VAL:HG22	5:AE:79:ARG:CG	2.30	0.62
5:AE:98:PRO:HA	5:AE:172:VAL:HG23	1.79	0.62
6:AF:36:VAL:CG2	6:AF:183:VAL:HG21	2.21	0.62
7:AG:68:PRO:HG3	7:AG:90:LEU:CD2	2.29	0.62
8:AH:25:LYS:HD3	8:AH:27:LYS:CD	2.30	0.62
10:AJ:10:LEU:N	10:AJ:56:GLU:CG	2.62	0.62
10:AJ:27:LEU:HD21	10:AJ:57:ILE:CB	2.29	0.62
10:AJ:123:ALA:O	10:AJ:127:ILE:HD12	2.00	0.62
11:AK:55:VAL:HG13	11:AK:56:ASN:N	2.13	0.62
12:AL:119:PRO:HA	34:BA:347:G:OP2	1.97	0.62
13:AM:113:LYS:CA	13:AM:129:ALA:HB1	2.29	0.62
14:AN:32:TYR:CZ	14:AN:106:VAL:HG23	2.35	0.62
14:AN:34:LEU:CD1	14:AN:105:GLU:HB2	2.27	0.62
14:AN:106:VAL:O	14:AN:107:ALA:HB2	2.00	0.62
15:AO:102:GLU:CG	15:AO:103:ARG:N	2.62	0.62
16:AP:10:ARG:NH1	16:AP:89:ARG:HH22	1.97	0.62
16:AP:31:SER:HB3	16:AP:34:HIS:HB3	1.81	0.62
16:AP:52:SER:HB3	16:AP:73:LEU:HD11	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:93:ARG:HG2	17:AQ:95:ARG:NH2	2.14	0.62
18:AR:58:ARG:HG3	18:AR:58:ARG:HH11	1.65	0.62
19:AS:18:LEU:HA	19:AS:96:ILE:O	2.00	0.62
20:AT:34:ASN:HD22	20:AT:34:ASN:N	1.94	0.62
20:AT:76:VAL:CG2	20:AT:77:ASP:H	2.13	0.62
21:AU:33:LYS:HB2	21:AU:33:LYS:NZ	2.14	0.62
21:AU:50:LYS:HG3	21:AU:85:PRO:HD3	1.81	0.62
22:AV:47:LYS:O	22:AV:48:ALA:CB	2.48	0.62
23:AW:6:LYS:CG	23:AW:7:ALA:N	2.62	0.62
24:AX:50:ASN:HB2	24:AX:81:VAL:CG2	2.29	0.62
25:AY:20:VAL:HG22	25:AY:24:LYS:HE3	1.81	0.62
26:AZ:26:LEU:HG	26:AZ:35:ARG:HH21	1.64	0.62
29:Ac:19:ARG:H	29:Ac:19:ARG:CD	2.11	0.62
30:Ad:10:ARG:C	30:Ad:14:LYS:HG3	2.24	0.62
31:Ae:49:VAL:O	31:Ae:53:PRO:CD	2.48	0.62
34:BA:130:A:N6	50:BU:64:PRO:HG2	2.14	0.62
34:BA:177:C:N3	34:BA:178:C:C5	2.68	0.62
34:BA:193:C:H2'	34:BA:194:C:C5	2.34	0.62
34:BA:235:C:H2'	34:BA:236:G:H8	1.64	0.62
34:BA:438:G:N2	34:BA:495:A:C8	2.68	0.62
34:BA:571:U:H5''	34:BA:571:U:C6	2.35	0.62
34:BA:677:U:H2'	34:BA:678:U:H5	1.59	0.62
34:BA:851:G:O2'	34:BA:852:G:H5'	1.99	0.62
34:BA:955:U:C2	34:BA:956:U:C5	2.87	0.62
34:BA:1011:G:N2	34:BA:1019:C:HI1'	2.15	0.62
34:BA:1064:G:OP1	34:BA:1386:G:C4'	2.46	0.62
34:BA:1151:A:N7	34:BA:1152:A:C8	2.66	0.62
34:BA:1312:G:N2	34:BA:1325:C:O2'	2.28	0.62
34:BA:1373:G:O2'	40:BK:34:GLY:HA2	2.00	0.62
34:BA:1389:C:H2'	34:BA:1390:U:H5'	1.80	0.62
34:BA:1449:C:C2'	34:BA:1450:U:O5'	2.45	0.62
35:BF:140:HIS:O	35:BF:143:GLU:HB3	2.00	0.62
36:BG:10:PHE:HB3	36:BG:11:ARG:HE	1.64	0.62
37:BH:157:LEU:O	37:BH:158:ILE:C	2.43	0.62
38:BI:147:ASP:O	38:BI:148:VAL:C	2.40	0.62
39:BJ:68:PRO:HB2	39:BJ:71:ARG:HG2	1.80	0.62
41:BL:20:TYR:HE1	41:BL:78:GLN:HE22	1.46	0.62
42:BM:109:VAL:O	42:BM:109:VAL:HG12	1.98	0.62
42:BM:111:ARG:HD2	47:BR:61:TRP:NE1	2.15	0.62
43:BN:8:LEU:HD22	43:BN:94:VAL:HG12	1.80	0.62
44:BO:73:MET:SD	44:BO:103:LEU:HB3	2.40	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:38:THR:HG22	45:BP:58:VAL:HA	1.82	0.62
45:BP:64:TYR:C	45:BP:65:GLU:HG3	2.25	0.62
46:BQ:95:GLY:C	46:BQ:110:ARG:HG2	2.24	0.62
47:BR:48:ALA:CA	47:BR:53:LEU:HD12	2.29	0.62
49:BT:3:LYS:HE2	49:BT:24:ALA:CB	2.28	0.62
49:BT:8:ARG:NH2	49:BT:11:SER:O	2.32	0.62
51:BV:61:LYS:CD	51:BV:64:ARG:HH22	2.07	0.62
52:BW:27:GLU:HG2	52:BW:28:LYS:H	1.63	0.62
55:CA:6:ARG:HD2	55:CA:194:VAL:HG12	1.81	0.62
55:CA:7:ASN:CG	55:CA:71:ASN:HB3	2.25	0.62
55:CA:39:GLN:CA	55:CA:40:GLU:HG3	2.30	0.62
55:CA:101:ALA:O	55:CA:135:ALA:CA	2.48	0.62
55:CA:217:TYR:C	55:CA:219:GLY:H	2.08	0.62
55:CA:398:GLU:OE2	55:CA:444:PRO:HB3	2.00	0.62
1:AA:182:A:C8	1:AA:182:A:OP2	2.53	0.62
1:AA:302:C:C2	1:AA:303:U:C5	2.88	0.62
1:AA:351:G:O2'	1:AA:352:G:OP2	2.16	0.62
1:AA:363(D):G:N1	1:AA:363(E):U:C2	2.67	0.62
1:AA:548:A:H62	1:AA:549:G:N2	1.98	0.62
1:AA:639:U:O4	1:AA:648:G:O6	2.17	0.62
1:AA:702:G:C2	1:AA:731:C:N3	2.67	0.62
1:AA:748:G:N7	1:AA:750:A:C5	2.67	0.62
1:AA:875:G:C6	1:AA:902:C:N3	2.64	0.62
1:AA:936:C:H2'	1:AA:937:U:H6	1.65	0.62
1:AA:996:A:C6	1:AA:1160:G:N1	2.67	0.62
1:AA:997:G:C5'	18:AR:92:ARG:NH1	2.54	0.62
1:AA:1202:C:C2	1:AA:1203:G:O2'	2.52	0.62
1:AA:1343:G:H21	1:AA:1405:U:H1'	1.65	0.62
1:AA:1348:G:O6	1:AA:1599:C:N4	2.33	0.62
1:AA:1472:A:C6	1:AA:1518:C:N4	2.68	0.62
1:AA:1613:G:H2'	1:AA:1617:C:H42	1.63	0.62
1:AA:1619:G:C2	30:Ad:3:ARG:NH1	2.68	0.62
1:AA:1797:C:C4	1:AA:1798:U:O4	2.53	0.62
1:AA:1862:G:H2'	1:AA:1863:G:C8	2.35	0.62
1:AA:1918:A:N9	34:BA:1408:A:H4'	2.02	0.62
1:AA:1943:U:O2'	1:AA:1944:U:OP2	2.16	0.62
1:AA:2059:A:H2	1:AA:2503:A:H62	1.42	0.62
1:AA:2150:U:H2'	1:AA:2151:G:H8	1.63	0.62
1:AA:2447:G:O3'	1:AA:2499:C:OP1	2.18	0.62
1:AA:2637:U:OP2	1:AA:2637:U:C6	2.52	0.62
1:AA:2647:U:O2'	1:AA:2648:C:H6	1.83	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2747:G:N2	1:AA:2754:U:C2	2.68	0.62
1:AA:2880:C:C2	1:AA:2881:C:C5	2.87	0.62
2:AB:62:C:C2	2:AB:63:G:N7	2.67	0.62
3:AC:10:LEU:HD12	3:AC:13:LYS:HD2	1.79	0.62
3:AC:100:ILE:HA	3:AC:127:LEU:HD11	1.82	0.62
3:AC:161:ILE:CG2	3:AC:174:PRO:HG2	2.30	0.62
4:AD:176:ARG:N	4:AD:182:LEU:HD23	2.15	0.62
5:AE:14:ILE:HG22	5:AE:19:ARG:HA	1.82	0.62
5:AE:91:VAL:HG21	5:AE:93:VAL:CG1	2.24	0.62
5:AE:101:ARG:NH1	5:AE:171:GLU:HG2	2.11	0.62
5:AE:115:GLY:C	5:AE:117:MET:N	2.54	0.62
5:AE:136:ARG:CZ	5:AE:137:HIS:HA	2.30	0.62
7:AG:53:LEU:O	7:AG:68:PRO:HB2	1.99	0.62
8:AH:31:GLY:C	8:AH:33:LEU:H	2.07	0.62
8:AH:37:VAL:O	8:AH:37:VAL:CG2	2.47	0.62
8:AH:66:GLY:O	8:AH:69:ARG:CG	2.46	0.62
8:AH:149:ARG:CG	8:AH:153:LYS:HD2	2.28	0.62
8:AH:159:GLU:OE2	8:AH:161:GLY:N	2.20	0.62
10:AJ:72:PRO:CA	10:AJ:77:LEU:HD23	2.26	0.62
10:AJ:83:GLY:C	10:AJ:85:GLU:N	2.57	0.62
11:AK:34:LEU:HD23	11:AK:116:LEU:HD21	1.80	0.62
11:AK:43:THR:CB	11:AK:44:PRO:CD	2.59	0.62
11:AK:57:ALA:O	11:AK:58:ASP:O	2.18	0.62
13:AM:121:LYS:N	13:AM:122:PRO:CD	2.62	0.62
14:AN:116:GLU:O	14:AN:119:ARG:HB2	2.00	0.62
15:AO:60:LEU:H	15:AO:60:LEU:HD23	1.65	0.62
16:AP:9:ARG:HA	16:AP:12:PHE:CD2	2.34	0.62
16:AP:26:LEU:HD13	16:AP:26:LEU:C	2.24	0.62
16:AP:49:VAL:HG21	16:AP:80:LEU:HG	1.82	0.62
17:AQ:27:THR:HG22	17:AQ:28:VAL:N	2.15	0.62
17:AQ:57:PHE:N	17:AQ:57:PHE:HD1	1.98	0.62
17:AQ:63:VAL:O	17:AQ:64:ARG:NH1	2.32	0.62
17:AQ:65:LYS:CD	17:AQ:75:ILE:HD13	2.28	0.62
17:AQ:76:PHE:CE2	17:AQ:78:LEU:HB2	2.35	0.62
18:AR:57:PHE:O	18:AR:58:ARG:C	2.43	0.62
18:AR:99:ALA:HB2	18:AR:106:PHE:CE1	2.34	0.62
21:AU:12:VAL:HG13	21:AU:14:SER:HB3	1.80	0.62
22:AV:24:VAL:HG23	22:AV:24:VAL:O	1.97	0.62
23:AW:1:MET:SD	23:AW:59:LEU:O	2.57	0.62
23:AW:4:ARG:NH2	23:AW:88:PHE:CE1	2.68	0.62
23:AW:102:LEU:HD11	23:AW:137:ILE:HG22	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:33:LYS:NZ	29:Ac:34:LEU:HD23	2.15	0.62
34:BA:135:C:H3'	34:BA:135:C:C6	2.35	0.62
34:BA:254:G:H2'	34:BA:255:G:H8	1.63	0.62
34:BA:257:G:O2'	34:BA:258:G:H5'	1.99	0.62
34:BA:265:G:C2'	34:BA:266:G:H5'	2.29	0.62
34:BA:373:A:O2'	34:BA:374:A:H5'	1.99	0.62
34:BA:574:A:H5''	34:BA:575:G:OP2	2.00	0.62
34:BA:671:G:H2'	34:BA:672:U:O4'	1.99	0.62
34:BA:848:C:O2'	34:BA:849:C:H5'	1.99	0.62
34:BA:933:G:N7	40:BK:3:ARG:NH2	2.46	0.62
34:BA:948:C:OP1	46:BQ:109:THR:HB	2.00	0.62
34:BA:971:G:P	34:BA:1231:G:H21	2.23	0.62
34:BA:1005:A:H4'	34:BA:1037:C:O2	1.99	0.62
34:BA:1016:A:H8	34:BA:1016:A:O5'	1.82	0.62
34:BA:1279:A:O2'	34:BA:1282:C:C4	2.52	0.62
34:BA:1315:U:H2'	34:BA:1316:G:O4'	1.99	0.62
35:BF:97:TRP:CH2	35:BF:176:GLU:CG	2.83	0.62
36:BG:48:TYR:CA	36:BG:52:LEU:HD22	2.30	0.62
36:BG:87:LEU:HB2	36:BG:101:LEU:HD11	1.81	0.62
36:BG:191:THR:C	36:BG:193:TYR:H	2.08	0.62
38:BI:15:ARG:CZ	38:BI:26:PHE:CE2	2.83	0.62
38:BI:18:ARG:H	38:BI:26:PHE:HB3	1.65	0.62
40:BK:42:ILE:CG2	40:BK:120:ILE:HD11	2.29	0.62
40:BK:72:ARG:HH22	40:BK:138:LYS:NZ	1.96	0.62
40:BK:115:ARG:O	40:BK:118:VAL:HB	2.00	0.62
41:BL:40:ALA:HA	41:BL:45:ILE:HG23	1.81	0.62
41:BL:75:ARG:HB2	41:BL:75:ARG:NH1	2.15	0.62
41:BL:89:PRO:HB3	41:BL:92:ARG:HH21	1.63	0.62
44:BO:95:ILE:HA	44:BO:98:LEU:HD12	1.82	0.62
44:BO:104:GLN:NE2	44:BO:106:LYS:HB2	2.15	0.62
47:BR:24:CYS:CB	47:BR:40:CYS:N	2.60	0.62
49:BT:20:VAL:CG1	49:BT:32:TYR:HB2	2.30	0.62
53:BX:48:LYS:HB3	53:BX:51:GLU:HG3	1.81	0.62
53:BX:57:ARG:NH2	53:BX:100:ILE:HD12	2.15	0.62
53:BX:57:ARG:C	53:BX:59:ALA:N	2.56	0.62
55:CA:55:THR:O	55:CA:56:ILE:CB	2.48	0.62
55:CA:93:ASP:OD2	55:CA:197:PRO:HB3	1.99	0.62
55:CA:117:PHE:CD1	55:CA:148:PHE:CE2	2.86	0.62
55:CA:137:PRO:CB	55:CA:176:HIS:NE2	2.62	0.62
55:CA:266:ASP:O	55:CA:267:LEU:HB2	1.99	0.62
1:AA:161:U:O2'	1:AA:162:U:H5	1.83	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190:A:OP2	1:AA:205:G:N2	2.33	0.62
1:AA:200:U:O4	1:AA:248:G:N7	2.33	0.62
1:AA:244:A:O3'	13:AM:65:ARG:NH1	2.32	0.62
1:AA:453:C:H4'	1:AA:457:A:H62	1.65	0.62
1:AA:533:G:C6	1:AA:534:U:N3	2.68	0.62
1:AA:619:G:H3'	1:AA:619:G:H8	1.64	0.62
1:AA:716:A:N3	48:BS:44:LYS:HG3	2.14	0.62
1:AA:798:G:OP1	6:AF:58:ALA:O	2.18	0.62
1:AA:823:G:C6	1:AA:835:A:C6	2.88	0.62
1:AA:966:G:C1'	1:AA:2267:A:H61	2.13	0.62
1:AA:980:A:H2	1:AA:2038:G:C1'	2.12	0.62
1:AA:1000:A:H61	1:AA:1155:A:C5'	2.12	0.62
1:AA:1062:G:C5	1:AA:1063:G:N7	2.67	0.62
1:AA:1075:C:O2'	10:AJ:90:LYS:CD	2.48	0.62
1:AA:1363:C:H4'	1:AA:1809:A:N7	2.15	0.62
1:AA:1418:G:H5'	1:AA:1587:A:O2'	2.00	0.62
1:AA:1549:C:H2'	1:AA:1550:C:H6	1.63	0.62
1:AA:1662:C:C4	1:AA:1663:C:N4	2.68	0.62
1:AA:1735:C:C2	1:AA:1741:C:H5	2.17	0.62
1:AA:1931:U:C2'	1:AA:1932:A:O5'	2.48	0.62
1:AA:2043:C:C2'	1:AA:2044:C:O5'	2.48	0.62
1:AA:2077:A:C4	1:AA:2435:A:C8	2.87	0.62
1:AA:2469:A:C2	1:AA:2482:G:C1'	2.83	0.62
1:AA:2484:G:N3	14:AN:124:LYS:CE	2.62	0.62
1:AA:2484:G:N2	14:AN:124:LYS:HD2	2.15	0.62
1:AA:2770:G:H2'	1:AA:2771:C:H5'	1.82	0.62
1:AA:2861:G:O4'	1:AA:2861:G:OP2	2.18	0.62
2:AB:0:A:N3	2:AB:0:A:C5'	2.63	0.62
2:AB:57:A:H2'	2:AB:58:A:H5'	1.82	0.62
3:AC:200:LYS:HG2	3:AC:200:LYS:O	1.99	0.62
4:AD:8:PRO:O	4:AD:25:THR:HG23	2.00	0.62
6:AF:20:LEU:HD23	6:AF:20:LEU:N	2.11	0.62
6:AF:77:ASP:OD1	6:AF:80:ALA:HB2	1.98	0.62
7:AG:53:LEU:CD2	7:AG:71:THR:N	2.61	0.62
7:AG:134:GLY:O	7:AG:155:MET:O	2.17	0.62
7:AG:135:LEU:HD12	7:AG:155:MET:HB2	1.82	0.62
8:AH:98:LEU:O	8:AH:98:LEU:HD23	2.00	0.62
9:AI:144:ALA:C	33:Ag:133:UNK:CB	2.72	0.62
12:AL:24:VAL:CG1	12:AL:32:TYR:H	2.13	0.62
13:AM:46:LYS:CB	13:AM:49:ARG:HB2	2.20	0.62
14:AN:55:VAL:HG23	14:AN:64:ILE:HD11	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:28:VAL:HG12	17:AQ:30:VAL:CG1	2.30	0.62
18:AR:47:TYR:O	18:AR:51:LYS:HG3	1.99	0.62
19:AS:3:ALA:O	19:AS:12:TYR:CE2	2.53	0.62
19:AS:45:THR:O	19:AS:46:VAL:HB	1.98	0.62
19:AS:61:VAL:C	19:AS:62:LEU:HD23	2.24	0.62
19:AS:66:ARG:NE	19:AS:95:LEU:HB2	2.09	0.62
23:AW:91:LEU:HD12	23:AW:95:PRO:HG3	1.80	0.62
26:AZ:31:LEU:O	26:AZ:31:LEU:HD13	1.99	0.62
27:Aa:5:ILE:HD11	27:Aa:9:LEU:C	2.24	0.62
27:Aa:5:ILE:C	27:Aa:7:PRO:HD2	2.25	0.62
28:Ab:9:LYS:HD3	28:Ab:10:LYS:H	1.64	0.62
34:BA:116:A:H8	34:BA:116:A:O5'	1.83	0.62
34:BA:173:U:H5''	34:BA:197:A:H1'	1.82	0.62
34:BA:273:A:H1'	50:BU:16:GLN:OE1	2.00	0.62
34:BA:323:U:H6	34:BA:323:U:H3'	1.65	0.62
34:BA:362:G:N3	34:BA:364:A:H8	1.98	0.62
34:BA:645:C:H2'	34:BA:646:U:C6	2.34	0.62
34:BA:727:G:C8	34:BA:727:G:C3'	2.82	0.62
34:BA:1193:G:H2'	34:BA:1194:U:O5'	1.99	0.62
34:BA:1210:C:O3'	34:BA:1214:C:N4	2.32	0.62
34:BA:1272:G:H2'	34:BA:1273:G:H8	1.64	0.62
34:BA:1319:A:C5'	52:BW:70:LYS:HZ2	1.68	0.62
34:BA:1393:U:C4'	34:BA:1501:C:O2'	2.38	0.62
34:BA:1454:G:C4	34:BA:1455:G:C5	2.88	0.62
35:BF:100:GLY:C	35:BF:104:ASN:HD21	2.07	0.62
35:BF:189:ASP:OD1	35:BF:205:ASP:N	2.33	0.62
37:BH:11:LEU:C	37:BH:19:LEU:HD12	2.25	0.62
37:BH:120:LEU:HD12	37:BH:120:LEU:C	2.25	0.62
38:BI:45:PHE:HE1	38:BI:47:LYS:HD2	1.65	0.62
39:BJ:94:GLN:HB3	51:BV:32:ARG:NH2	2.14	0.62
43:BN:6:ILE:O	43:BN:71:LEU:HD13	2.00	0.62
43:BN:47:PHE:CE1	43:BN:64:GLU:HA	2.34	0.62
45:BP:90:VAL:HG12	45:BP:93:LEU:HD21	1.82	0.62
50:BU:25:ARG:HG2	50:BU:26:GLN:N	2.15	0.62
51:BV:21:LYS:HD2	51:BV:23:LYS:H	1.64	0.62
52:BW:5:LEU:CD2	52:BW:41:VAL:HG12	2.30	0.62
52:BW:47:HIS:H	52:BW:62:ILE:CG2	2.13	0.62
53:BX:8:ARG:NH1	53:BX:8:ARG:HB3	2.14	0.62
53:BX:63:ILE:HD11	53:BX:80:ARG:HB3	1.78	0.62
54:BY:5:ASP:O	54:BY:7:ARG:N	2.32	0.62
55:CA:18:LYS:NZ	55:CA:50:LYS:HA	2.15	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:370:ILE:HG21	55:CA:565:LEU:CD2	2.29	0.62
55:CA:408:GLU:C	55:CA:410:GLN:H	2.08	0.62
55:CA:572:ILE:HD13	55:CA:578:VAL:HG23	1.81	0.62
1:AA:233:A:H2'	1:AA:234:C:C5'	2.28	0.61
1:AA:244:A:C5	1:AA:245:G:H1'	2.35	0.61
1:AA:247:G:N2	1:AA:249:C:HO2'	1.96	0.61
1:AA:261:G:C4'	1:AA:608:A:H2	1.99	0.61
1:AA:270(U):C:H2'	1:AA:270(V):G:H1'	1.82	0.61
1:AA:482:A:N7	1:AA:506:G:C2	2.68	0.61
1:AA:489:G:H2'	1:AA:491:G:O4'	2.00	0.61
1:AA:642:G:H3'	1:AA:642:G:H8	1.64	0.61
1:AA:685:A:C2	1:AA:689:A:C6	2.88	0.61
1:AA:880:G:H1	1:AA:897:C:HO2'	1.45	0.61
1:AA:918:A:N3	1:AA:918:A:H5'	2.15	0.61
1:AA:931:G:N2	26:AZ:25:ALA:N	2.48	0.61
1:AA:1006:C:H4'	11:AK:32:THR:OG1	1.99	0.61
1:AA:1020:A:H5''	1:AA:1021:A:OP1	1.99	0.61
1:AA:1075:C:O2	10:AJ:90:LYS:HA	1.99	0.61
1:AA:1108:U:OP2	9:AI:59:ILE:CB	2.48	0.61
1:AA:1204:A:O4'	1:AA:1204:A:P	2.58	0.61
1:AA:1273:U:H4'	1:AA:1275:A:OP2	2.00	0.61
1:AA:1372:U:O5'	1:AA:1372:U:H6	1.82	0.61
1:AA:1650:G:N2	1:AA:1651:G:C1'	2.62	0.61
1:AA:1661:G:N2	1:AA:2000:G:H1'	2.15	0.61
1:AA:1774:C:C5	4:AD:18:VAL:HG11	2.35	0.61
1:AA:1797:C:H2'	1:AA:1798:U:H6	1.63	0.61
1:AA:2209:C:C4'	4:AD:150:LYS:HB3	2.27	0.61
1:AA:2330:G:H2'	1:AA:2331:G:O4'	2.00	0.61
1:AA:2439:A:H4'	1:AA:2440:C:O5'	1.99	0.61
1:AA:2542:A:O2'	1:AA:2543:G:H5'	1.99	0.61
2:AB:32:C:C2	2:AB:33:G:N7	2.67	0.61
3:AC:180:PHE:HB3	3:AC:185:LEU:CD2	2.20	0.61
4:AD:59:LYS:C	4:AD:59:LYS:CD	2.72	0.61
4:AD:75:ILE:O	4:AD:76:PRO:C	2.42	0.61
4:AD:157:ARG:O	4:AD:158:ALA:O	2.17	0.61
4:AD:176:ARG:NH2	4:AD:270:ILE:HD11	2.10	0.61
4:AD:181:GLU:C	4:AD:270:ILE:HD12	2.24	0.61
6:AF:99:TYR:O	6:AF:101:LEU:N	2.33	0.61
7:AG:60:LEU:HD21	7:AG:90:LEU:CD1	2.24	0.61
7:AG:157:ILE:HG12	7:AG:158:ALA:N	2.15	0.61
8:AH:71:LEU:O	8:AH:74:ASN:ND2	2.30	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:124:GLU:OE1	8:AH:124:GLU:N	2.33	0.61
11:AK:33:LEU:CD1	11:AK:34:LEU:HG	2.29	0.61
13:AM:16:ARG:HD2	13:AM:16:ARG:C	2.24	0.61
13:AM:78:PRO:HG2	13:AM:117:GLU:OE2	2.00	0.61
16:AP:14:VAL:O	16:AP:18:ILE:HD13	1.99	0.61
19:AS:6:LYS:HZ3	19:AS:10:LYS:HD2	1.64	0.61
20:AT:72:LYS:O	20:AT:106:ILE:HG22	2.00	0.61
21:AU:27:THR:HB	21:AU:80:ILE:CD1	2.26	0.61
22:AV:31:LEU:O	22:AV:33:LYS:N	2.33	0.61
22:AV:47:LYS:O	22:AV:48:ALA:HB3	2.00	0.61
23:AW:19:ARG:N	23:AW:23:LYS:O	2.33	0.61
23:AW:23:LYS:NZ	23:AW:38:TYR:O	2.33	0.61
24:AX:12:ASN:CA	24:AX:14:ARG:CZ	2.68	0.61
26:AZ:35:ARG:NH2	26:AZ:47:VAL:HG22	2.13	0.61
27:Aa:6:HIS:CE1	27:Aa:55:ARG:HD3	2.34	0.61
30:Ad:28:ARG:CA	30:Ad:31:LEU:HD12	2.04	0.61
31:Ae:2:PRO:HB2	31:Ae:4:MET:HE3	1.82	0.61
34:BA:86:U:H2'	34:BA:87:A:H5'	1.82	0.61
34:BA:134:A:C6	34:BA:135:C:C4	2.88	0.61
34:BA:363:A:C5	45:BP:31:PRO:HD2	2.35	0.61
34:BA:649:G:H2'	34:BA:650:G:H8	1.63	0.61
34:BA:706:A:H4'	44:BO:29:ILE:CD1	2.30	0.61
34:BA:836:G:P	51:BV:61:LYS:NZ	2.73	0.61
34:BA:914:A:O2'	34:BA:915:A:O5'	2.17	0.61
34:BA:1044:A:H2'	34:BA:1045:C:C5'	2.30	0.61
34:BA:1187:G:H2'	34:BA:1188:A:H8	1.65	0.61
34:BA:1357:A:H8	34:BA:1357:A:O5'	1.83	0.61
34:BA:1419:G:O2'	34:BA:1420:C:O4'	2.17	0.61
34:BA:1435:G:H2'	34:BA:1436:U:C5	2.35	0.61
34:BA:1472:U:HO2'	34:BA:1473:A:H5'	1.63	0.61
35:BF:69:LEU:O	35:BF:162:ILE:CB	2.47	0.61
37:BH:15:GLU:OE2	37:BH:63:LYS:HB3	2.00	0.61
37:BH:74:GLN:HA	37:BH:77:ASN:ND2	1.99	0.61
37:BH:110:PHE:CE1	37:BH:148:VAL:HG23	2.34	0.61
38:BI:56:GLN:N	38:BI:56:GLN:NE2	2.47	0.61
39:BJ:13:ASN:N	39:BJ:13:ASN:HD22	1.98	0.61
41:BL:8:ASP:OD2	41:BL:12:ARG:HD2	2.00	0.61
41:BL:87:SER:HB3	41:BL:93:VAL:H	1.64	0.61
41:BL:113:SER:O	41:BL:131:GLY:HA3	2.00	0.61
42:BM:47:LEU:CD1	42:BM:51:ARG:HH22	2.05	0.61
42:BM:110:GLU:O	42:BM:111:ARG:HB2	1.98	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:23:ILE:CG2	43:BN:72:VAL:HG11	2.30	0.61
44:BO:53:SER:O	44:BO:55:LYS:N	2.32	0.61
46:BQ:77:ASN:O	46:BQ:81:LEU:HD12	1.99	0.61
47:BR:16:PHE:O	47:BR:18:VAL:N	2.32	0.61
50:BU:50:LYS:HD2	50:BU:51:TYR:CZ	2.35	0.61
52:BW:33:THR:CG2	52:BW:49:ILE:HD12	2.30	0.61
53:BX:26:ASN:ND2	53:BX:27:LYS:H	1.98	0.61
55:CA:28:GLN:CD	55:CA:183:MET:SD	2.82	0.61
55:CA:400:TYR:C	55:CA:442:VAL:HG13	2.25	0.61
55:CA:407:VAL:C	55:CA:436:ARG:NH1	2.58	0.61
1:AA:5:A:H2'	1:AA:6:A:H8	1.63	0.61
1:AA:403:U:H5''	1:AA:404:C:OP1	2.01	0.61
1:AA:458:G:H2'	30:Ad:40:TRP:NE1	2.15	0.61
1:AA:559:G:C2'	1:AA:560:C:H6	2.04	0.61
1:AA:594:U:OP1	31:Ae:61:LEU:HD13	2.00	0.61
1:AA:602:G:H2'	1:AA:655:A:C2	2.34	0.61
1:AA:637:A:H2	1:AA:651:G:C5'	2.13	0.61
1:AA:885:C:H5''	1:AA:885:C:H6	1.64	0.61
1:AA:1095:A:C4'	55:CA:416:MET:CE	2.78	0.61
1:AA:1431:U:C2'	1:AA:1432:C:H5'	2.30	0.61
1:AA:1463:C:C2'	1:AA:1464:C:O5'	2.47	0.61
1:AA:1775:U:OP2	1:AA:1776:G:OP2	2.18	0.61
1:AA:1853:A:N1	1:AA:2087:G:H1'	2.15	0.61
1:AA:1900:A:C2	1:AA:1970:A:C6	2.87	0.61
1:AA:2052:G:H2'	1:AA:2053:G:C8	2.29	0.61
1:AA:2058:A:N3	1:AA:2059:A:N7	2.48	0.61
1:AA:2418:A:C2'	1:AA:2419:U:O4'	2.44	0.61
1:AA:2450:A:C2	1:AA:2451:A:C4	2.89	0.61
1:AA:2537:U:H2'	1:AA:2538:C:C5	2.34	0.61
1:AA:2644:G:N1	1:AA:2645:G:N2	2.47	0.61
1:AA:2646:C:C5	1:AA:2647:U:O4	2.53	0.61
1:AA:2661:G:H2'	1:AA:2662:A:C8	2.35	0.61
1:AA:2733:A:C2'	1:AA:2734:A:O5'	2.44	0.61
1:AA:2761:G:O2'	1:AA:2762:G:H5'	2.00	0.61
2:AB:115:G:H8	2:AB:115:G:OP2	1.83	0.61
3:AC:29:VAL:HG13	3:AC:30:LYS:N	2.13	0.61
3:AC:75:LEU:CD1	3:AC:99:ILE:HD13	2.29	0.61
3:AC:77:ILE:HB	3:AC:115:ALA:HB2	1.82	0.61
4:AD:79:VAL:HB	4:AD:114:GLY:N	2.14	0.61
4:AD:209:ALA:O	4:AD:213:ARG:HG2	2.01	0.61
4:AD:267:SER:O	4:AD:268:ARG:O	2.18	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:49:LEU:CD1	5:AE:76:ARG:HG2	2.30	0.61
5:AE:105:THR:O	5:AE:197:ILE:HD12	2.00	0.61
7:AG:118:ARG:HB3	7:AG:118:ARG:CZ	2.29	0.61
8:AH:9:ILE:HD13	8:AH:73:ALA:CB	2.30	0.61
8:AH:13:LYS:HG3	8:AH:15:VAL:N	2.14	0.61
8:AH:88:LEU:CD2	8:AH:90:LYS:HB3	2.30	0.61
8:AH:167:GLU:C	8:AH:169:VAL:H	2.08	0.61
10:AJ:103:GLN:O	10:AJ:107:ILE:HG13	1.99	0.61
12:AL:89:ASN:O	12:AL:90:GLN:HB2	2.00	0.61
13:AM:15:ARG:O	13:AM:16:ARG:C	2.43	0.61
13:AM:90:ARG:HA	13:AM:125:VAL:HG13	1.81	0.61
17:AQ:34:VAL:HG21	17:AQ:36:GLU:CD	2.25	0.61
18:AR:93:LYS:HB2	19:AS:10:LYS:CE	2.30	0.61
19:AS:43:GLU:C	19:AS:44:LYS:HD3	2.25	0.61
19:AS:67:GLY:N	19:AS:94:LEU:HA	2.15	0.61
23:AW:79:ARG:HB2	23:AW:80:ARG:HH11	1.64	0.61
23:AW:151:HIS:ND1	23:AW:151:HIS:N	2.48	0.61
24:AX:44:ARG:HE	24:AX:77:ARG:CD	2.12	0.61
24:AX:46:LYS:HE2	24:AX:77:ARG:O	1.99	0.61
26:AZ:52:HIS:C	26:AZ:54:VAL:H	2.07	0.61
27:Aa:52:THR:CG2	27:Aa:53:GLU:H	2.06	0.61
29:Ac:41:PRO:CG	29:Ac:43:CYS:HB2	2.31	0.61
30:Ad:8:ASN:HD22	30:Ad:8:ASN:C	2.07	0.61
34:BA:8:A:H5'	38:BI:120:THR:O	2.00	0.61
34:BA:54:C:H41	34:BA:352:C:H2'	1.65	0.61
34:BA:254:G:C6	34:BA:273:A:N6	2.69	0.61
34:BA:262:A:C2'	34:BA:263:A:C8	2.74	0.61
34:BA:274:A:HO2'	34:BA:275:G:C1'	2.12	0.61
34:BA:292:G:N7	34:BA:293:G:H1'	2.15	0.61
34:BA:406:G:H21	37:BH:119:GLN:HE22	1.48	0.61
34:BA:511:C:C2	34:BA:512:U:C5	2.88	0.61
34:BA:558:G:C3'	34:BA:559:A:C5'	2.72	0.61
34:BA:730:G:H2'	34:BA:731:G:C5'	2.30	0.61
34:BA:907:A:H4'	34:BA:907:A:OP1	1.98	0.61
34:BA:1021:G:H2'	34:BA:1022:G:O4'	2.00	0.61
34:BA:1062:U:C2'	34:BA:1063:C:C6	2.82	0.61
34:BA:1064:G:C1'	34:BA:1066:C:N3	2.63	0.61
34:BA:1112:C:C2'	36:BG:179:ARG:NH1	2.62	0.61
34:BA:1117:G:N7	34:BA:1184:G:N1	2.48	0.61
34:BA:1312:G:N3	34:BA:1326:C:C2	2.66	0.61
34:BA:1499:A:H2'	34:BA:1500:A:C5'	2.23	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:10:LEU:HD23	35:BF:11:LEU:HD21	1.81	0.61
35:BF:107:THR:O	35:BF:108:ILE:C	2.43	0.61
36:BG:35:GLU:HA	36:BG:38:ARG:HG2	1.83	0.61
37:BH:57:ARG:HH22	38:BI:107:ARG:CD	2.13	0.61
37:BH:92:VAL:HG12	37:BH:96:LEU:HD11	1.81	0.61
40:BK:50:ILE:HG21	40:BK:58:PRO:CA	2.30	0.61
40:BK:50:ILE:HD12	40:BK:58:PRO:HB3	1.82	0.61
41:BL:9:MET:CE	41:BL:13:ILE:HD11	2.30	0.61
41:BL:53:VAL:HG12	41:BL:54:ASP:OD1	2.00	0.61
41:BL:100:ILE:CD1	41:BL:125:ARG:HE	2.13	0.61
45:BP:65:GLU:O	45:BP:66:VAL:HG13	1.99	0.61
48:BS:36:ILE:HG13	48:BS:59:MET:CE	2.30	0.61
49:BT:51:VAL:O	49:BT:52:ASP:C	2.42	0.61
52:BW:22:LEU:C	52:BW:24:ALA:H	2.07	0.61
55:CA:156:GLU:CA	55:CA:157:GLN:HB2	2.30	0.61
55:CA:169:ASN:HA	55:CA:171:ILE:HD13	1.81	0.61
55:CA:298:PRO:HB2	55:CA:299:ALA:CB	2.30	0.61
55:CA:379:GLU:OE1	55:CA:581:THR:HB	1.99	0.61
55:CA:382:VAL:CG2	55:CA:569:LEU:HD23	2.25	0.61
1:AA:3:U:O2	1:AA:2900:A:C2	2.42	0.61
1:AA:46:C:N4	1:AA:214:G:C8	2.68	0.61
1:AA:64:A:H8	1:AA:64:A:O5'	1.82	0.61
1:AA:76:C:O5'	1:AA:76:C:C6	2.53	0.61
1:AA:164:U:H2'	1:AA:172:C:C1'	2.29	0.61
1:AA:192:C:O2	1:AA:192:C:C2'	2.46	0.61
1:AA:204:A:H4'	1:AA:205:G:C5'	2.30	0.61
1:AA:213:A:C2'	1:AA:214:G:H5'	2.29	0.61
1:AA:326:G:C4	1:AA:327:G:C8	2.88	0.61
1:AA:363(D):G:O2'	1:AA:363(E):U:H5'	1.99	0.61
1:AA:373:U:H4'	1:AA:374:A:H8	1.64	0.61
1:AA:648:G:C4	1:AA:649:G:N7	2.69	0.61
1:AA:873:G:H5'	14:AN:66:ILE:HD11	1.82	0.61
1:AA:997:G:O2'	1:AA:998:C:C5'	2.48	0.61
1:AA:1079:C:OP1	10:AJ:137:GLU:CB	2.48	0.61
1:AA:1131:G:N2	11:AK:72:TYR:HE2	1.97	0.61
1:AA:1135:C:O2	1:AA:2038:G:H4'	2.00	0.61
1:AA:1278:A:OP1	15:AO:36:THR:HG22	1.99	0.61
1:AA:1340:U:C5	21:AU:57:LEU:HG	2.35	0.61
1:AA:1355:G:C2	1:AA:1377:G:N3	2.68	0.61
1:AA:1417:C:N4	1:AA:1581:G:H1	1.85	0.61
1:AA:1434:A:C2	1:AA:1435:G:N9	2.68	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1458:C:H4'	1:AA:1459:G:C5	2.35	0.61
1:AA:1588:C:H2'	1:AA:1589:C:H6	1.65	0.61
1:AA:1661:G:H2'	1:AA:1662:C:C6	2.34	0.61
1:AA:1700:A:H3'	1:AA:1701:A:C8	2.29	0.61
1:AA:1861:G:H2'	1:AA:1862:G:H5'	1.82	0.61
1:AA:1912:A:N6	1:AA:1919:A:C4	2.68	0.61
1:AA:1953:A:N6	1:AA:2549:G:O2'	2.32	0.61
1:AA:1988:C:H2'	1:AA:1989:G:O5'	2.00	0.61
1:AA:2228:G:C8	1:AA:2229:C:C6	2.88	0.61
1:AA:2230:G:H2'	1:AA:2231:C:H6	1.66	0.61
1:AA:2392:A:O3'	31:Ae:32:LEU:HD11	1.99	0.61
1:AA:2507:C:C2	1:AA:2583:G:C2	2.89	0.61
1:AA:2597:G:H5'	4:AD:242:ARG:CG	2.29	0.61
1:AA:2694:G:C2	1:AA:2716:U:O2	2.53	0.61
1:AA:2720:U:H2'	1:AA:2721:A:H8	1.64	0.61
1:AA:2807:G:C5	1:AA:2808:U:C4	2.89	0.61
2:AB:12:C:C5	24:AX:74:ARG:O	2.53	0.61
2:AB:117:G:N3	2:AB:117:G:H2'	2.13	0.61
3:AC:122:ALA:CA	3:AC:126:LYS:HD3	2.30	0.61
4:AD:9:TYR:OH	4:AD:198:ASN:ND2	2.32	0.61
4:AD:176:ARG:CA	4:AD:182:LEU:HD23	2.30	0.61
4:AD:208:LYS:HZ1	4:AD:211:ARG:HH21	1.48	0.61
7:AG:165:THR:HB	7:AG:168:GLU:CD	2.25	0.61
8:AH:7:LEU:N	8:AH:7:LEU:HD23	2.14	0.61
8:AH:28:GLY:N	8:AH:79:VAL:HB	2.14	0.61
8:AH:101:ARG:CD	8:AH:117:PRO:HG3	2.30	0.61
11:AK:75:TYR:O	11:AK:76:SER:O	2.18	0.61
11:AK:107:LEU:HD13	11:AK:117:PHE:CE1	2.35	0.61
14:AN:45:GLN:HA	14:AN:48:GLU:CG	2.30	0.61
15:AO:97:VAL:HG22	15:AO:114:VAL:CG1	2.30	0.61
17:AQ:43:GLN:OE1	17:AQ:43:GLN:N	2.30	0.61
18:AR:76:TYR:O	18:AR:80:ILE:HB	2.00	0.61
18:AR:88:ILE:HG12	19:AS:52:VAL:CG1	2.31	0.61
19:AS:40:LEU:HG	19:AS:55:ALA:CA	2.29	0.61
20:AT:73:ALA:O	20:AT:74:ALA:HB2	2.00	0.61
21:AU:36:LYS:CD	21:AU:39:ILE:HD12	2.30	0.61
22:AV:1:MET:HG2	22:AV:33:LYS:HD2	1.81	0.61
23:AW:141:VAL:CG1	23:AW:142:SER:H	2.10	0.61
26:AZ:17:LYS:HA	26:AZ:20:LYS:HZ3	1.66	0.61
29:Ac:49:HIS:O	29:Ac:50:ARG:CB	2.47	0.61
30:Ad:34:ARG:HH22	30:Ad:42:LEU:CD2	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:38:G:N2	34:BA:397:A:C4	2.68	0.61
34:BA:246:A:H1'	34:BA:247:G:H1'	1.82	0.61
34:BA:515:G:H2'	34:BA:516:U:O4'	2.00	0.61
34:BA:678:U:H2'	34:BA:679:C:C5	2.35	0.61
34:BA:690:G:H2'	34:BA:690:G:N3	2.15	0.61
34:BA:765:G:N2	34:BA:816:A:C2	2.69	0.61
34:BA:775:G:H2'	34:BA:776:G:N7	2.15	0.61
34:BA:789:U:C6	34:BA:789:U:H3'	2.36	0.61
34:BA:815:A:C2	34:BA:1529:G:C2	2.89	0.61
34:BA:934:C:N4	34:BA:1344:C:N3	2.48	0.61
34:BA:969:A:O2'	43:BN:55:LYS:NZ	2.25	0.61
34:BA:1117:G:C5	34:BA:1184:G:C5	2.81	0.61
34:BA:1164:G:H2'	34:BA:1165:C:H5'	1.82	0.61
34:BA:1191:A:OP1	36:BG:4:LYS:CG	2.47	0.61
34:BA:1489:G:N2	34:BA:1490:C:O2	2.33	0.61
35:BF:70:PHE:HB3	35:BF:163:PHE:O	2.00	0.61
37:BH:8:VAL:CG1	37:BH:11:LEU:HD12	2.29	0.61
38:BI:75:THR:HA	38:BI:118:ILE:HD11	1.82	0.61
40:BK:88:PRO:CG	40:BK:152:ALA:HB2	2.29	0.61
41:BL:87:SER:HB3	41:BL:93:VAL:HG23	1.81	0.61
41:BL:114:THR:HA	41:BL:131:GLY:CA	2.29	0.61
44:BO:73:MET:CE	44:BO:103:LEU:HD22	2.29	0.61
44:BO:79:SER:HA	44:BO:104:GLN:HG3	1.82	0.61
45:BP:12:ARG:HB3	45:BP:12:ARG:CZ	2.30	0.61
45:BP:38:THR:HG23	45:BP:39:VAL:H	1.63	0.61
45:BP:91:LYS:O	45:BP:92:ASP:CB	2.47	0.61
45:BP:117:ARG:HH11	45:BP:117:ARG:CG	2.12	0.61
48:BS:45:VAL:O	48:BS:45:VAL:HG12	1.99	0.61
49:BT:58:TYR:HD1	49:BT:59:TRP:N	1.98	0.61
52:BW:40:ILE:HD12	52:BW:74:PHE:CE2	2.35	0.61
53:BX:31:SER:OG	53:BX:32:ALA:N	2.26	0.61
55:CA:26:LEU:C	55:CA:27:GLN:HG2	2.24	0.61
55:CA:123:PRO:CB	55:CA:156:GLU:OE1	2.48	0.61
55:CA:245:LYS:HE2	55:CA:291:THR:HB	1.80	0.61
1:AA:81:G:O2'	1:AA:294:A:H2'	2.01	0.61
1:AA:252:G:N7	31:Ae:8:LYS:HE3	2.15	0.61
1:AA:270(X):G:H4'	1:AA:272:G:O3'	1.99	0.61
1:AA:402:A:H2'	1:AA:402:A:N3	2.15	0.61
1:AA:463:G:N2	1:AA:466:A:OP2	2.26	0.61
1:AA:531:C:C6	1:AA:532:A:C2	2.88	0.61
1:AA:566:U:C5'	19:AS:82:ARG:NH2	2.64	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:602:G:N2	1:AA:655:A:H3'	2.15	0.61
1:AA:603:A:N6	1:AA:625:G:N7	2.48	0.61
1:AA:624:C:OP2	13:AM:105:LEU:CD2	2.48	0.61
1:AA:649:G:O3'	31:Ae:17:THR:HG21	2.00	0.61
1:AA:650:C:OP1	31:Ae:21:LYS:NZ	2.32	0.61
1:AA:666:G:H5'	31:Ae:59:LYS:HZ1	1.66	0.61
1:AA:801:G:OP1	6:AF:57:VAL:N	2.33	0.61
1:AA:960:A:C2	1:AA:962:G:H1'	2.35	0.61
1:AA:1210:A:H1'	1:AA:1212:G:N2	2.15	0.61
1:AA:1604:C:O2	1:AA:1604:C:H2'	1.99	0.61
1:AA:1824:G:O2'	4:AD:246:PRO:CB	2.43	0.61
1:AA:1824:G:OP1	4:AD:53:PHE:CE2	2.54	0.61
1:AA:1882:C:C2'	1:AA:1883:G:H5'	2.30	0.61
1:AA:1935:G:H1'	1:AA:1964:G:N2	2.15	0.61
1:AA:1972:A:H2'	1:AA:1973:G:H8	1.66	0.61
1:AA:2004:G:C8	1:AA:2005:A:N7	2.69	0.61
1:AA:2271:G:O5'	1:AA:2271:G:H8	1.84	0.61
1:AA:2308:G:N3	1:AA:2308:G:H2'	2.15	0.61
1:AA:2325:G:H2'	1:AA:2326:C:O4'	1.99	0.61
1:AA:2392:A:H2'	1:AA:2393:A:C5'	2.29	0.61
1:AA:2392:A:O2'	1:AA:2393:A:H5'	2.00	0.61
1:AA:2495:G:C5'	14:AN:82:ARG:HA	2.31	0.61
1:AA:2580:U:OP2	1:AA:2580:U:C6	2.54	0.61
1:AA:2648:C:H3'	1:AA:2649:U:C6	2.33	0.61
1:AA:2696:U:C2'	1:AA:2697:G:O5'	2.48	0.61
1:AA:2720:U:O4	1:AA:2873:A:N6	2.33	0.61
2:AB:99:A:C6	2:AB:100:G:C5	2.88	0.61
3:AC:193:ILE:HG22	3:AC:197:GLU:OE1	2.01	0.61
5:AE:13:ARG:HD2	5:AE:20:ALA:O	2.00	0.61
5:AE:49:LEU:HD21	5:AE:75:VAL:CA	2.31	0.61
5:AE:92:THR:O	5:AE:94:GLU:N	2.32	0.61
5:AE:102:VAL:HA	5:AE:202:LYS:HZ1	1.63	0.61
5:AE:198:VAL:C	5:AE:199:ARG:HD2	2.24	0.61
6:AF:125:LEU:C	6:AF:127:GLU:N	2.53	0.61
6:AF:154:VAL:HB	6:AF:193:VAL:CG2	2.31	0.61
7:AG:8:LYS:HE2	7:AG:100:TRP:HD1	1.65	0.61
7:AG:125:PHE:HD2	7:AG:129:GLY:N	1.98	0.61
7:AG:128:ARG:NH2	7:AG:130:ASN:HD21	1.97	0.61
8:AH:83:TYR:HB2	8:AH:136:ILE:O	2.00	0.61
8:AH:127:GLU:CG	8:AH:130:ARG:HB2	2.29	0.61
11:AK:88:GLU:HB2	11:AK:89:LYS:NZ	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:36:THR:HB	15:AO:40:LYS:HD2	1.80	0.61
15:AO:96:ARG:O	15:AO:114:VAL:HG13	2.01	0.61
16:AP:9:ARG:NH1	16:AP:9:ARG:CB	2.48	0.61
16:AP:75:GLU:C	16:AP:78:LEU:HB3	2.25	0.61
16:AP:76:LYS:O	16:AP:80:LEU:HD23	2.01	0.61
17:AQ:1:MET:CG	17:AQ:2:ASN:N	2.64	0.61
17:AQ:102:ILE:C	17:AQ:104:ASN:N	2.56	0.61
18:AR:111:GLU:HG3	18:AR:112:ARG:N	2.16	0.61
22:AV:33:LYS:O	22:AV:34:LYS:C	2.42	0.61
23:AW:71:VAL:CG1	23:AW:74:VAL:HG23	2.30	0.61
26:AZ:50:VAL:HG13	26:AZ:53:LEU:HB2	1.82	0.61
27:Aa:6:HIS:HB2	27:Aa:7:PRO:HD3	1.81	0.61
27:Aa:52:THR:O	27:Aa:53:GLU:HB2	1.98	0.61
28:Ab:12:SER:C	28:Ab:14:ALA:N	2.51	0.61
28:Ab:33:CYS:N	28:Ab:37:LYS:O	2.30	0.61
28:Ab:46:CYS:CB	28:Ab:47:PRO:HD2	2.26	0.61
28:Ab:55:ARG:C	28:Ab:57:VAL:N	2.56	0.61
30:Ad:40:TRP:O	30:Ad:41:ARG:HB3	2.01	0.61
32:Af:20:HIS:O	32:Af:22:ARG:HG2	1.99	0.61
33:Ag:7:UNK:O	33:Ag:148:UNK:CB	2.48	0.61
34:BA:51:A:O2'	34:BA:52:G:P	2.58	0.61
34:BA:137:C:C2'	34:BA:138:G:O5'	2.48	0.61
34:BA:218:C:H5'	34:BA:466:C:H41	1.64	0.61
34:BA:227:G:H2'	34:BA:228:A:C8	2.36	0.61
34:BA:255:G:OP2	50:BU:66:SER:HB2	2.00	0.61
34:BA:280:C:N3	50:BU:39:SER:HB2	2.14	0.61
34:BA:453:A:H62	34:BA:480:U:H3	1.45	0.61
34:BA:851:G:C2	34:BA:852:G:H1'	2.35	0.61
34:BA:938:A:C4	34:BA:939:G:C8	2.89	0.61
34:BA:1028(B):C:H2'	34:BA:1028(B):C:O2	1.99	0.61
34:BA:1061:G:C2	34:BA:1197:G:C2	2.88	0.61
34:BA:1273:G:H3'	34:BA:1274:G:H8	1.63	0.61
34:BA:1330:U:H5''	46:BQ:70:LEU:CD2	2.25	0.61
34:BA:1358:U:H5'	47:BR:34:TYR:HA	1.83	0.61
34:BA:1429:C:H2'	34:BA:1430:C:C6	2.36	0.61
34:BA:1438:G:C2'	34:BA:1439:C:H5'	2.30	0.61
35:BF:29:ALA:O	35:BF:32:ILE:HB	1.99	0.61
35:BF:69:LEU:CD2	35:BF:91:PRO:HB3	2.30	0.61
37:BH:170:VAL:HG11	37:BH:174:LEU:HB2	1.82	0.61
39:BJ:14:LEU:CD1	39:BJ:15:ASP:N	2.57	0.61
39:BJ:75:LEU:HD23	39:BJ:78:GLU:HB3	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:17:VAL:HB	40:BK:44:TYR:OH	1.99	0.61
40:BK:125:MET:HG3	40:BK:126:ASP:N	2.10	0.61
41:BL:5:PRO:C	41:BL:8:ASP:HB3	2.24	0.61
41:BL:6:ILE:CG2	41:BL:7:ALA:H	1.91	0.61
42:BM:26:VAL:HG22	42:BM:61:ALA:HB3	1.81	0.61
42:BM:32:ASP:CG	42:BM:33:PHE:N	2.58	0.61
43:BN:10:GLY:CA	43:BN:94:VAL:HG22	2.29	0.61
43:BN:12:ASP:OD1	43:BN:14:LYS:HB2	2.01	0.61
43:BN:75:ILE:HG22	43:BN:76:ASN:H	1.65	0.61
44:BO:23:ALA:HB1	44:BO:88:GLY:HA3	1.82	0.61
44:BO:111:ASP:O	44:BO:112:THR:C	2.43	0.61
46:BQ:8:GLU:OE1	46:BQ:18:ALA:O	2.18	0.61
46:BQ:15:VAL:HG23	46:BQ:39:ILE:HD12	0.62	0.61
50:BU:59:ILE:CD1	50:BU:72:ARG:N	2.63	0.61
53:BX:50:GLU:OE1	53:BX:100:ILE:HG23	2.00	0.61
55:CA:300:LEU:HB2	55:CA:301:SER:C	2.25	0.61
55:CA:380:LEU:HD11	55:CA:580:VAL:HG21	1.81	0.61
1:AA:13:A:C2	1:AA:526:A:N6	2.68	0.61
1:AA:72:U:C1'	25:AY:56:LEU:HD23	2.29	0.61
1:AA:82:G:N2	1:AA:83:G:N2	2.48	0.61
1:AA:279:C:H2'	1:AA:280:C:C6	2.36	0.61
1:AA:293:U:H2'	1:AA:294:A:H8	1.65	0.61
1:AA:324:A:N1	1:AA:325:G:N3	2.49	0.61
1:AA:469:G:N2	30:Ad:40:TRP:CZ2	2.52	0.61
1:AA:535:C:C2'	1:AA:536:A:H5'	2.29	0.61
1:AA:558:G:C2'	1:AA:559:G:H5'	2.30	0.61
1:AA:749:C:H3'	1:AA:749:C:C6	2.36	0.61
1:AA:808:G:H2'	1:AA:809:G:O4'	1.99	0.61
1:AA:873:G:C4	1:AA:874:G:C8	2.88	0.61
1:AA:974(A):C:O2	1:AA:989:G:C2	2.53	0.61
1:AA:1034:G:OP2	32:Af:18:ARG:CZ	2.48	0.61
1:AA:1035:U:O3'	8:AH:59:ARG:NH1	2.27	0.61
1:AA:1147:C:C2'	1:AA:1148:A:H5'	2.30	0.61
1:AA:1244:G:H5'	13:AM:9:ASN:HB2	1.78	0.61
1:AA:1309:G:C2'	1:AA:1310:G:C5'	2.75	0.61
1:AA:1870:C:H2'	1:AA:1870:C:O2	2.01	0.61
1:AA:1959:G:H5''	34:BA:1418:A:C1'	2.19	0.61
1:AA:2018:G:C1'	18:AR:34:LYS:NZ	2.59	0.61
2:AB:35:U:O2	2:AB:35:U:C2'	2.48	0.61
2:AB:99:A:C2	2:AB:100:G:C4	2.88	0.61
3:AC:97:GLU:OE1	3:AC:122:ALA:HB2	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:29:PRO:HB2	4:AD:31:LYS:NZ	2.16	0.61
4:AD:61:LEU:C	4:AD:62:TYR:CG	2.75	0.61
4:AD:105:ILE:CD1	4:AD:106:ILE:H	2.06	0.61
5:AE:13:ARG:CZ	5:AE:20:ALA:CB	2.79	0.61
5:AE:133:LYS:O	5:AE:137:HIS:CE1	2.54	0.61
5:AE:196:VAL:CG1	5:AE:197:ILE:H	2.13	0.61
6:AF:49:ALA:HB3	6:AF:94:PRO:HA	1.83	0.61
6:AF:113:ALA:HB1	6:AF:187:VAL:CG1	2.30	0.61
7:AG:12:TYR:CD1	7:AG:13:GLU:N	2.68	0.61
7:AG:142:PRO:C	7:AG:143:GLU:HG2	2.25	0.61
8:AH:171:LEU:HA	8:AH:172:LYS:HZ2	1.64	0.61
10:AJ:22:PRO:HD2	10:AJ:23:VAL:H	1.66	0.61
11:AK:104:LYS:O	11:AK:107:LEU:N	2.33	0.61
11:AK:128:HIS:N	11:AK:129:PRO:CD	2.60	0.61
12:AL:18:LYS:NZ	12:AL:44:LYS:HD3	2.14	0.61
14:AN:12:GLN:NE2	14:AN:13:GLN:CG	2.62	0.61
14:AN:27:VAL:HG13	14:AN:104:PHE:CE2	2.34	0.61
14:AN:34:LEU:CG	14:AN:67:ARG:HH22	2.13	0.61
14:AN:111:GLU:HB3	14:AN:112:GLU:OE2	2.00	0.61
15:AO:13:HIS:CE1	15:AO:15:SER:H	2.18	0.61
16:AP:96:GLY:O	16:AP:97:ARG:C	2.43	0.61
17:AQ:6:LEU:HD23	17:AQ:7:ILE:N	2.14	0.61
18:AR:53:ARG:O	18:AR:56:ASP:HB2	2.01	0.61
18:AR:70:ARG:O	18:AR:71:GLN:C	2.43	0.61
19:AS:6:LYS:NZ	19:AS:10:LYS:HB3	2.16	0.61
19:AS:68:LYS:NZ	19:AS:95:LEU:HD11	2.15	0.61
22:AV:13:VAL:HG13	22:AV:70:SER:CB	2.29	0.61
23:AW:39:VAL:HG13	23:AW:44:PHE:CE2	2.34	0.61
24:AX:67:VAL:HG12	24:AX:67:VAL:O	2.00	0.61
25:AY:48:LEU:HA	25:AY:51:GLN:CD	2.25	0.61
29:Ac:22:ALA:CB	29:Ac:39:TYR:CE2	2.83	0.61
31:Ae:5:LYS:HE3	31:Ae:10:ALA:CB	2.30	0.61
34:BA:9:G:H3'	38:BI:126:ARG:HH11	1.66	0.61
34:BA:37:U:P	45:BP:123:LYS:HD2	2.40	0.61
34:BA:49:U:O2'	34:BA:50:A:OP1	2.16	0.61
34:BA:129(A):G:H2'	34:BA:189:U:C5	2.36	0.61
34:BA:169:C:O2'	34:BA:170:U:H5'	2.01	0.61
34:BA:404:U:C4'	37:BH:122:ARG:NH1	2.62	0.61
34:BA:558:G:C5'	34:BA:559:A:H5''	2.31	0.61
34:BA:714:G:O2'	34:BA:715:A:H5'	2.00	0.61
34:BA:828:A:O4'	34:BA:859:A:H2	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:995:C:O2'	47:BR:4:LYS:HE2	2.00	0.61
34:BA:1026:G:C8	34:BA:1027:C:C6	2.89	0.61
34:BA:1449:C:N4	34:BA:1454:G:N1	2.42	0.61
35:BF:28:PHE:N	35:BF:194:PRO:HG2	2.16	0.61
35:BF:132:LYS:HA	35:BF:135:GLN:OE1	2.01	0.61
36:BG:200:ALA:C	36:BG:201:TYR:CD1	2.79	0.61
37:BH:144:ASP:O	37:BH:184:LYS:HD3	2.00	0.61
39:BJ:95:GLU:H	39:BJ:96:PRO:HD2	1.64	0.61
42:BM:37:PHE:CD1	42:BM:43:ALA:HA	2.35	0.61
43:BN:4:ILE:HG12	43:BN:99:LYS:O	2.00	0.61
46:BQ:16:ASP:N	46:BQ:34:LEU:HD21	2.15	0.61
46:BQ:69:GLU:OE1	46:BQ:72:ALA:HB2	2.00	0.61
48:BS:16:ALA:O	48:BS:17:ARG:C	2.44	0.61
48:BS:39:LEU:CD1	48:BS:56:LEU:HD13	2.30	0.61
49:BT:27:LYS:O	49:BT:29:ASP:N	2.33	0.61
49:BT:27:LYS:C	49:BT:29:ASP:N	2.58	0.61
49:BT:35:LYS:HZ1	49:BT:37:GLY:N	1.95	0.61
49:BT:49:LEU:HD11	49:BT:51:VAL:CG2	2.20	0.61
50:BU:81:ARG:HG2	50:BU:84:LEU:HD21	1.83	0.61
51:BV:53:ARG:HD3	51:BV:63:GLN:NE2	2.16	0.61
53:BX:63:ILE:HD13	53:BX:80:ARG:CB	2.29	0.61
53:BX:64:ASP:O	53:BX:67:ALA:CB	2.47	0.61
55:CA:190:ILE:O	55:CA:194:VAL:HB	2.01	0.61
1:AA:59:U:H3'	1:AA:60:G:H5''	1.83	0.61
1:AA:338:G:OP1	22:AV:2:ARG:CZ	2.48	0.61
1:AA:520:G:O2'	1:AA:521:G:H5'	2.00	0.61
1:AA:574:C:C1'	1:AA:2055:C:H5	2.14	0.61
1:AA:612:G:C4'	1:AA:616:A:H61	2.03	0.61
1:AA:648:G:H2'	1:AA:649:G:H8	1.65	0.61
1:AA:685:A:C5'	1:AA:686:G:H21	2.07	0.61
1:AA:775:G:H4'	1:AA:777:A:C5	2.35	0.61
1:AA:977:G:N3	1:AA:978:G:H1'	2.15	0.61
1:AA:990:A:N6	1:AA:1186:G:H1'	2.16	0.61
1:AA:996:A:C2	1:AA:997:G:C5	2.88	0.61
1:AA:1080:C:C6	10:AJ:129:GLY:CA	2.83	0.61
1:AA:1203:G:C2	1:AA:1241:A:H8	2.18	0.61
1:AA:1207:C:C2	1:AA:1208:C:C5	2.89	0.61
1:AA:1207:C:OP2	1:AA:1207:C:H6	1.84	0.61
1:AA:1459:G:O6	1:AA:1461:G:C6	2.53	0.61
1:AA:1675:C:H5	5:AE:129:HIS:NE2	1.99	0.61
1:AA:1726:G:C6	1:AA:1727:U:O4	2.53	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1808:U:C4	1:AA:1810:A:N1	2.68	0.61
1:AA:1834:U:H1'	1:AA:1969:A:H2	1.63	0.61
1:AA:1943:U:H4'	1:AA:1944:U:H5'	1.82	0.61
1:AA:1955:U:H2'	1:AA:1955:U:O2	2.00	0.61
1:AA:1956:U:C2'	1:AA:1957:C:H6	2.09	0.61
1:AA:1993:U:C2	1:AA:1994:C:C5	2.88	0.61
1:AA:2009:G:H5''	20:AT:41:LYS:HG2	1.81	0.61
1:AA:2373:G:H8	1:AA:2373:G:OP2	1.84	0.61
1:AA:2393:A:C5'	13:AM:56:SER:N	2.63	0.61
1:AA:2415:G:C5'	13:AM:61:ARG:HB2	2.30	0.61
1:AA:2657:A:N6	1:AA:2664:G:H2'	2.14	0.61
1:AA:2734:A:H61	1:AA:2770:G:H1'	1.64	0.61
2:AB:51:G:OP1	16:AP:60:GLY:C	2.44	0.61
2:AB:71:C:C3'	2:AB:72:G:H5'	2.31	0.61
2:AB:75:G:C2	23:AW:27:VAL:HG21	2.35	0.61
2:AB:90:C:H2'	2:AB:91:C:H6	1.64	0.61
3:AC:7:TYR:OH	3:AC:11:LEU:HD13	2.00	0.61
4:AD:61:LEU:HB3	4:AD:86:PRO:HG2	1.82	0.61
4:AD:89:SER:OG	4:AD:159:ALA:N	2.33	0.61
5:AE:54:GLN:HG2	5:AE:57:LYS:HG3	1.82	0.61
6:AF:185:ASP:O	6:AF:188:ARG:HG3	2.01	0.61
7:AG:35:GLU:O	7:AG:36:LYS:O	2.18	0.61
7:AG:77:ILE:HD12	7:AG:83:ARG:NH2	2.16	0.61
7:AG:119:GLY:HA3	7:AG:180:PHE:CZ	2.35	0.61
7:AG:119:GLY:HA3	7:AG:180:PHE:CE2	2.35	0.61
8:AH:54:ARG:HH21	8:AH:57:ASP:HB2	1.65	0.61
10:AJ:27:LEU:HD22	10:AJ:58:THR:O	2.00	0.61
10:AJ:67:PHE:O	10:AJ:68:VAL:HG22	2.00	0.61
10:AJ:84:LEU:HD12	10:AJ:86:LYS:CE	2.17	0.61
10:AJ:103:GLN:HA	10:AJ:106:GLU:HG2	1.81	0.61
12:AL:13:ASN:HB2	12:AL:94:ARG:HB2	1.82	0.61
13:AM:23:PRO:CG	13:AM:29:LYS:N	2.63	0.61
13:AM:135:LEU:HD12	13:AM:135:LEU:H	1.65	0.61
14:AN:43:THR:HG23	14:AN:46:GLN:HB3	1.83	0.61
15:AO:25:ALA:HA	15:AO:48:VAL:HG22	1.82	0.61
15:AO:38:VAL:CB	15:AO:39:PRO:CD	2.77	0.61
15:AO:73:VAL:HA	15:AO:76:VAL:HB	1.81	0.61
16:AP:9:ARG:HH11	16:AP:9:ARG:H	1.48	0.61
16:AP:26:LEU:CD2	16:AP:37:ALA:HB1	2.29	0.61
16:AP:39:ILE:HD11	16:AP:77:ALA:HB2	1.83	0.61
16:AP:74:ALA:CB	16:AP:108:GLY:CA	2.67	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:63:VAL:O	17:AQ:63:VAL:HG13	1.99	0.61
17:AQ:102:ILE:C	17:AQ:104:ASN:H	2.08	0.61
17:AQ:103:ARG:HB3	17:AQ:107:ASP:OD1	2.00	0.61
18:AR:61:TRP:HA	18:AR:65:ILE:HD11	1.83	0.61
19:AS:67:GLY:O	19:AS:68:LYS:CB	2.47	0.61
20:AT:98:LYS:NZ	20:AT:98:LYS:HB3	2.15	0.61
22:AV:12:THR:HG22	22:AV:13:VAL:HG12	1.81	0.61
22:AV:83:THR:O	22:AV:94:LYS:HA	2.00	0.61
23:AW:56:VAL:HG13	23:AW:133:ILE:HD11	1.82	0.61
26:AZ:15:TYR:N	26:AZ:15:TYR:HD1	1.98	0.61
26:AZ:29:ARG:CB	26:AZ:30:ARG:CZ	2.79	0.61
27:Aa:20:ASN:HB2	27:Aa:30:GLU:CB	2.30	0.61
27:Aa:68:ARG:NH1	27:Aa:68:ARG:CB	2.62	0.61
31:Ae:26:LYS:HZ3	31:Ae:43:GLN:HA	1.64	0.61
34:BA:47:C:O2'	34:BA:48:C:OP2	2.19	0.61
34:BA:129(A):G:C2	34:BA:188:U:O2'	2.53	0.61
34:BA:306:G:O5'	34:BA:306:G:H8	1.84	0.61
34:BA:826:C:H5'	41:BL:12:ARG:NH2	2.15	0.61
34:BA:890:G:O2'	34:BA:891:U:C6	2.53	0.61
34:BA:948:C:OP1	46:BQ:109:THR:OG1	2.19	0.61
34:BA:1001:G:H8	34:BA:1001:G:H5'	1.65	0.61
34:BA:1128:C:C4'	42:BM:16:ARG:NH2	2.64	0.61
34:BA:1346:A:C8	34:BA:1348:U:C2	2.88	0.61
35:BF:56:ARG:HD2	35:BF:56:ARG:C	2.26	0.61
35:BF:146:GLN:O	35:BF:147:LYS:C	2.43	0.61
36:BG:35:GLU:C	36:BG:38:ARG:HG2	2.25	0.61
36:BG:67:THR:HA	36:BG:102:ASN:O	2.00	0.61
40:BK:22:LEU:HB3	40:BK:62:PHE:HE2	1.65	0.61
41:BL:69:ARG:NH1	41:BL:73:ASP:O	2.34	0.61
43:BN:23:ILE:CG2	43:BN:85:LEU:HD23	2.21	0.61
44:BO:87:THR:HG22	44:BO:91:ARG:NH1	2.16	0.61
45:BP:27:LEU:HD23	45:BP:33:ARG:CD	2.28	0.61
45:BP:126:LYS:HZ3	45:BP:128:ALA:H	1.49	0.61
48:BS:81:LEU:HD23	48:BS:81:LEU:C	2.25	0.61
49:BT:4:ILE:CG2	49:BT:21:VAL:HG13	2.30	0.61
52:BW:46:GLY:O	52:BW:47:HIS:ND1	2.34	0.61
53:BX:8:ARG:HB3	53:BX:8:ARG:HH11	1.63	0.61
55:CA:13:HIS:CB	55:CA:108:GLN:C	2.74	0.61
55:CA:106:MET:HB3	55:CA:108:GLN:CG	2.29	0.61
55:CA:234:ASN:ND2	55:CA:249:ALA:CA	2.63	0.61
1:AA:84:A:H5'	22:AV:8:LYS:CE	2.29	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:123:G:H2'	1:AA:124:G:C8	2.36	0.61
1:AA:197:A:H3'	1:AA:198:C:C5	2.36	0.61
1:AA:411:G:N2	1:AA:2408:U:H3	1.92	0.61
1:AA:445:C:O3'	18:AR:3:ARG:HG2	2.00	0.61
1:AA:492:A:C8	1:AA:492:A:OP2	2.53	0.61
1:AA:627:A:C4	1:AA:637:A:C4	2.88	0.61
1:AA:684:G:H5''	1:AA:684:G:H8	1.65	0.61
1:AA:820:A:O2'	1:AA:836:G:N2	2.34	0.61
1:AA:861:A:N3	2:AB:79:C:O2'	2.31	0.61
1:AA:1025:G:N3	1:AA:1025:G:C2'	2.63	0.61
1:AA:1034:G:C2	1:AA:1122:G:C5	2.88	0.61
1:AA:1043:C:O2'	1:AA:1045:A:OP1	2.18	0.61
1:AA:1114:G:C2	1:AA:1115:G:C1'	2.84	0.61
1:AA:1245:G:OP1	13:AM:15:ARG:HD2	1.99	0.61
1:AA:1265:A:O2'	1:AA:1266:G:H4'	2.00	0.61
1:AA:1341:U:H5''	1:AA:1342:A:N7	2.15	0.61
1:AA:1364:G:P	1:AA:1809:A:C6	2.94	0.61
1:AA:1618:A:OP1	1:AA:1618:A:C8	2.54	0.61
1:AA:1725:G:N3	1:AA:1725:G:H2'	2.15	0.61
1:AA:1742:C:C4	1:AA:1743:G:C8	2.88	0.61
1:AA:1792:G:O2'	1:AA:1830:C:OP1	2.18	0.61
1:AA:1937:A:H2'	1:AA:1938:A:OP1	2.00	0.61
1:AA:2194:G:H2'	1:AA:2195:C:C5	2.36	0.61
1:AA:2298:A:H3'	1:AA:2299:G:H8	1.65	0.61
1:AA:2349:G:H3'	1:AA:2350:C:C5'	2.24	0.61
1:AA:2431:U:O2'	1:AA:2432:A:H5''	2.00	0.61
1:AA:2482:G:C2	1:AA:2483:C:H1'	2.35	0.61
1:AA:2491:U:C5	1:AA:2492:U:OP2	2.54	0.61
1:AA:2527:C:OP2	1:AA:2527:C:H3'	2.01	0.61
1:AA:2595:G:N2	1:AA:2599:G:C6	2.69	0.61
1:AA:2788:C:C2	1:AA:2789:C:C4	2.84	0.61
1:AA:2831:G:O4'	1:AA:2883:A:C2	2.53	0.61
3:AC:61:THR:HG21	3:AC:160:ARG:NH2	2.16	0.61
5:AE:106:GLY:HA3	5:AE:196:VAL:HG22	1.82	0.61
6:AF:39:TRP:CE3	6:AF:99:TYR:HB3	2.36	0.61
7:AG:55:LYS:HE2	7:AG:151:ALA:CB	2.29	0.61
7:AG:97:ASP:O	7:AG:98:ARG:C	2.43	0.61
8:AH:5:GLY:O	8:AH:6:ARG:HB2	2.00	0.61
8:AH:31:GLY:O	8:AH:79:VAL:HG12	2.00	0.61
8:AH:45:VAL:HG13	8:AH:50:VAL:HG13	1.82	0.61
8:AH:111:HIS:O	8:AH:112:PRO:C	2.43	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:27:LEU:CD2	10:AJ:58:THR:HA	2.31	0.61
12:AL:3:GLN:O	12:AL:3:GLN:OE1	2.19	0.61
12:AL:11:ALA:HB2	12:AL:17:ARG:CD	2.31	0.61
13:AM:81:GLN:CB	13:AM:86:LYS:HG3	2.30	0.61
14:AN:52:VAL:O	14:AN:53:ALA:C	2.43	0.61
14:AN:67:ARG:NH2	14:AN:103:MET:C	2.58	0.61
16:AP:95:HIS:ND1	16:AP:96:GLY:N	2.49	0.61
16:AP:100:ALA:HA	16:AP:103:GLU:OE1	2.00	0.61
19:AS:3:ALA:CB	19:AS:44:LYS:HZ2	2.13	0.61
19:AS:68:LYS:CG	19:AS:95:LEU:HD21	2.26	0.61
20:AT:16:LYS:HZ2	20:AT:16:LYS:H	1.40	0.61
20:AT:75:TYR:O	20:AT:104:THR:CG2	2.49	0.61
23:AW:1:MET:HE1	23:AW:59:LEU:CD2	2.30	0.61
23:AW:48:PHE:CB	23:AW:54:HIS:HE1	2.13	0.61
23:AW:104:PHE:N	23:AW:104:PHE:CD1	2.68	0.61
23:AW:116:VAL:HG21	23:AW:145:GLU:CG	2.30	0.61
23:AW:127:LYS:CE	23:AW:165:VAL:HB	2.31	0.61
25:AY:2:ARG:H	25:AY:2:ARG:CZ	2.14	0.61
25:AY:15:GLU:O	25:AY:16:LEU:C	2.44	0.61
25:AY:28:MET:O	25:AY:29:GLU:C	2.44	0.61
27:Aa:56:VAL:HB	27:Aa:61:ARG:CD	2.31	0.61
34:BA:151:A:N7	34:BA:152:A:C2	2.69	0.61
34:BA:224:C:H2'	34:BA:225:C:C6	2.35	0.61
34:BA:362:G:H4'	45:BP:28:LYS:HZ2	1.65	0.61
34:BA:373:A:C2	34:BA:374:A:C8	2.89	0.61
34:BA:518:C:C2	34:BA:529:G:O6	2.53	0.61
34:BA:771:G:C6	34:BA:809:G:C6	2.88	0.61
34:BA:796:C:H2'	34:BA:797:C:C6	2.35	0.61
34:BA:818:G:O2'	34:BA:819:A:OP1	2.17	0.61
34:BA:990:C:H2'	34:BA:991:U:C1'	2.30	0.61
34:BA:1084:G:C4	34:BA:1085:U:C5	2.80	0.61
34:BA:1109:C:H2'	34:BA:1110:A:O4'	2.01	0.61
34:BA:1117:G:O3'	42:BM:103:THR:HG21	2.00	0.61
34:BA:1295:G:H21	34:BA:1302:U:H3	1.47	0.61
34:BA:1318:A:C8	52:BW:37:ARG:CB	2.84	0.61
34:BA:1320:C:H3'	34:BA:1321:C:C6	2.35	0.61
34:BA:1496:C:C5	34:BA:1497:G:N7	2.68	0.61
35:BF:41:ILE:HD12	35:BF:41:ILE:N	2.16	0.61
35:BF:64:ARG:HG2	35:BF:66:GLY:H	1.65	0.61
35:BF:91:PRO:CG	35:BF:154:LEU:HB3	2.22	0.61
36:BG:17:ASP:HB3	36:BG:18:TRP:CE3	2.32	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:91:LEU:CD2	36:BG:92:ALA:N	2.64	0.61
37:BH:196:LEU:HD12	37:BH:196:LEU:O	2.00	0.61
37:BH:205:GLU:O	37:BH:206:PHE:C	2.44	0.61
38:BI:76:ILE:HG21	38:BI:142:LEU:HD13	1.82	0.61
40:BK:106:GLN:HA	40:BK:106:GLN:NE2	2.14	0.61
41:BL:28:ALA:O	41:BL:29:SER:CB	2.48	0.61
41:BL:41:ARG:HB3	41:BL:41:ARG:HH11	1.64	0.61
46:BQ:16:ASP:OD2	46:BQ:17:VAL:N	2.33	0.61
47:BR:19:ARG:O	47:BR:20:ALA:C	2.44	0.61
49:BT:31:LYS:HG2	49:BT:32:TYR:N	2.15	0.61
50:BU:51:TYR:CD1	50:BU:51:TYR:N	2.61	0.61
50:BU:99:SER:C	50:BU:100:LYS:HG2	2.24	0.61
51:BV:18:ARG:HH21	51:BV:21:LYS:CB	2.10	0.61
51:BV:20:ALA:HB1	51:BV:55:ARG:HH21	1.65	0.61
51:BV:47:THR:N	51:BV:49:LYS:HZ3	1.97	0.61
51:BV:77:GLY:C	51:BV:79:LEU:HD12	2.25	0.61
52:BW:38:SER:HB3	52:BW:71:LEU:CG	2.29	0.61
55:CA:27:GLN:CG	55:CA:28:GLN:HB2	2.29	0.61
55:CA:69:ARG:HA	55:CA:70:ILE:CB	2.20	0.61
55:CA:153:ALA:N	55:CA:154:THR:HA	1.96	0.61
55:CA:164:TYR:CE2	55:CA:175:ASP:OD1	2.53	0.61
55:CA:311:PHE:HB2	55:CA:356:PHE:CB	2.21	0.61
55:CA:390:ARG:O	55:CA:397:GLN:N	2.30	0.61
1:AA:200:U:H3'	1:AA:201:C:H5'	1.82	0.61
1:AA:586:A:OP1	6:AF:89:VAL:CG2	2.49	0.61
1:AA:613:U:H5	1:AA:614:U:O2	1.83	0.61
1:AA:627:A:N6	1:AA:638:G:H1'	2.08	0.61
1:AA:730:C:H2'	1:AA:731:C:C5	2.36	0.61
1:AA:731:C:H5'	1:AA:731:C:H6	1.66	0.61
1:AA:805:G:H1'	1:AA:831:G:O2'	2.01	0.61
1:AA:873:G:C6	1:AA:874:G:C8	2.89	0.61
1:AA:937:U:O2'	1:AA:938:G:H5'	2.01	0.61
1:AA:942:G:H5'	13:AM:32:THR:HG23	1.82	0.61
1:AA:1022:G:C5	1:AA:1139:G:C6	2.89	0.61
1:AA:1023:U:OP2	1:AA:1025:G:N1	2.33	0.61
1:AA:1024:G:O6	1:AA:1138:G:O6	2.18	0.61
1:AA:1078:U:OP1	10:AJ:137:GLU:CD	2.43	0.61
1:AA:1127:A:H3'	1:AA:1127:A:H8	1.65	0.61
1:AA:1366:A:C2	1:AA:1367:A:N3	2.69	0.61
1:AA:1389:G:H5'	1:AA:1525:G:H5''	1.82	0.61
1:AA:1519:G:H2'	1:AA:1520:U:O4'	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1799:G:H5''	4:AD:264:LYS:NZ	2.15	0.61
1:AA:1801:G:C4	4:AD:263:ARG:NH2	2.66	0.61
1:AA:2083:G:N2	1:AA:2084:C:C2	2.68	0.61
1:AA:2132:U:H2'	1:AA:2132:U:O2	1.99	0.61
1:AA:2277:G:H3'	1:AA:2278:A:C5'	2.25	0.61
1:AA:2469:A:H4'	14:AN:56:ARG:HD3	1.83	0.61
3:AC:20:TYR:O	3:AC:225:ASN:HB3	2.01	0.61
3:AC:100:ILE:CG2	3:AC:127:LEU:HG	2.18	0.61
5:AE:104:VAL:CG1	5:AE:198:VAL:HG22	2.30	0.61
7:AG:1:MET:C	7:AG:3:LEU:H	2.08	0.61
7:AG:126:ASP:HA	7:AG:166:ASP:OD1	2.01	0.61
8:AH:68:THR:HG22	8:AH:72:ILE:CD1	2.30	0.61
8:AH:127:GLU:CB	8:AH:130:ARG:H	2.13	0.61
11:AK:17:ASP:O	11:AK:18:ALA:HB3	2.00	0.61
11:AK:48:MET:O	11:AK:119:ARG:NH1	2.31	0.61
12:AL:24:VAL:HG11	12:AL:32:TYR:H	1.66	0.61
13:AM:122:PRO:HD3	13:AM:137:LYS:HB2	1.82	0.61
14:AN:6:ARG:CB	14:AN:44:ALA:HB1	2.21	0.61
15:AO:110:PRO:C	15:AO:111:LEU:HD23	2.26	0.61
16:AP:39:ILE:O	16:AP:47:THR:HG23	2.00	0.61
17:AQ:27:THR:O	17:AQ:52:ILE:HD12	2.00	0.61
18:AR:60:LEU:HB2	18:AR:61:TRP:HD1	1.64	0.61
18:AR:89:GLU:OE1	19:AS:50:PRO:CB	2.47	0.61
19:AS:40:LEU:CD2	19:AS:51:VAL:O	2.44	0.61
19:AS:52:VAL:O	19:AS:55:ALA:HB3	2.01	0.61
21:AU:15:GLU:O	21:AU:18:TYR:N	2.26	0.61
22:AV:88:LYS:O	22:AV:91:GLU:HB2	1.99	0.61
23:AW:10:ARG:NH2	23:AW:36:LYS:H	1.98	0.61
27:Aa:65:ASP:N	27:Aa:68:ARG:NH2	2.48	0.61
29:Ac:20:ASN:ND2	29:Ac:43:CYS:CB	2.64	0.61
31:Ae:8:LYS:N	31:Ae:11:LYS:HE3	2.16	0.61
34:BA:118:U:O4	34:BA:289:G:H4'	2.00	0.61
34:BA:274:A:O2'	34:BA:275:G:H1'	2.00	0.61
34:BA:599:C:O2'	41:BL:130:GLY:N	2.34	0.61
34:BA:720:C:H2'	34:BA:721:G:C8	2.34	0.61
34:BA:752:G:O4'	34:BA:752:G:OP2	2.18	0.61
34:BA:866:C:H3'	34:BA:867:G:H8	1.66	0.61
34:BA:949:A:OP1	46:BQ:101:GLN:HB3	2.01	0.61
34:BA:1269:A:C8	34:BA:1270:C:H1'	2.36	0.61
34:BA:1305:G:N3	34:BA:1331:G:N2	2.48	0.61
34:BA:1431:C:H42	34:BA:1469:G:H1	1.45	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:58:ILE:O	35:BF:61:LEU:HB3	2.01	0.61
35:BF:138:LEU:O	35:BF:141:GLU:HB3	2.01	0.61
35:BF:162:ILE:HD13	35:BF:162:ILE:N	2.14	0.61
35:BF:179:LYS:C	35:BF:181:PHE:N	2.53	0.61
36:BG:3:ASN:CG	36:BG:4:LYS:N	2.59	0.61
36:BG:10:PHE:O	36:BG:11:ARG:NH2	2.33	0.61
36:BG:151:VAL:HG22	36:BG:200:ALA:HB1	1.82	0.61
36:BG:156:ARG:NH2	36:BG:160:ALA:O	2.34	0.61
36:BG:178:LEU:O	36:BG:179:ARG:HB2	1.99	0.61
37:BH:32:ALA:HB3	37:BH:33:MET:HE3	1.83	0.61
37:BH:80:GLU:HA	37:BH:83:SER:OG	2.00	0.61
39:BJ:78:GLU:HA	39:BJ:81:ILE:CD1	2.31	0.61
40:BK:143:ARG:HH11	40:BK:144:MET:CB	2.06	0.61
42:BM:111:ARG:HD2	47:BR:61:TRP:HE1	1.65	0.61
43:BN:20:ALA:HB1	43:BN:37:PRO:HB3	1.83	0.61
44:BO:27:ASN:HA	44:BO:55:LYS:O	2.00	0.61
49:BT:12:LYS:HZ2	49:BT:13:HIS:CD2	2.19	0.61
50:BU:104:LYS:HD3	50:BU:105:ALA:HB3	1.82	0.61
52:BW:40:ILE:O	52:BW:41:VAL:HG13	2.00	0.61
55:CA:67:ASP:H	55:CA:68:TYR:CA	2.13	0.61
55:CA:170:GLY:N	55:CA:171:ILE:HD13	2.16	0.61
55:CA:179:MET:CB	55:CA:182:ASP:HB3	2.14	0.61
55:CA:183:MET:SD	55:CA:187:TYR:CZ	2.94	0.61
55:CA:300:LEU:HD12	55:CA:300:LEU:N	2.16	0.61
55:CA:309:MET:HG2	55:CA:358:VAL:HB	1.83	0.61
1:AA:274:G:H2'	1:AA:275:G:H5'	1.82	0.61
1:AA:400:G:N1	27:Aa:63:TYR:OH	2.30	0.61
1:AA:548:A:N6	1:AA:549:G:N2	2.49	0.61
1:AA:582:G:N1	1:AA:1259:G:C6	2.69	0.61
1:AA:626:U:H2'	1:AA:626:U:O2	2.00	0.61
1:AA:637:A:C2	1:AA:651:G:C5'	2.82	0.61
1:AA:723:G:O2'	1:AA:724:U:C5'	2.47	0.61
1:AA:819:A:H2'	1:AA:820:A:O4'	2.00	0.61
1:AA:860:U:H2'	1:AA:861:A:C5'	2.31	0.61
1:AA:1020:A:N3	1:AA:1140:C:O2	2.33	0.61
1:AA:1034:G:OP2	32:Af:18:ARG:NE	2.33	0.61
1:AA:1115:G:H2'	1:AA:1115:G:N3	2.16	0.61
1:AA:1227:A:H3'	1:AA:1227:A:H8	1.65	0.61
1:AA:1347:G:N2	1:AA:1600:C:C2	2.69	0.61
1:AA:1418:G:OP2	1:AA:1418:G:C8	2.54	0.61
1:AA:1475:G:N7	1:AA:1517:G:N2	2.48	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1572:A:O4'	1:AA:1572:A:P	2.59	0.61
1:AA:1695:G:N3	1:AA:1695:G:C3'	2.62	0.61
1:AA:1906:G:C2	1:AA:1929:G:C6	2.88	0.61
1:AA:1942:C:OP2	1:AA:1943:U:H3'	2.01	0.61
1:AA:1966:A:C1'	1:AA:2593:U:H5'	2.24	0.61
1:AA:1969:A:C5'	1:AA:1970:A:OP1	2.49	0.61
1:AA:2210:G:N7	4:AD:150:LYS:O	2.33	0.61
1:AA:2360:A:C8	1:AA:2361:A:C8	2.89	0.61
1:AA:2432:A:C2	27:Aa:30:GLU:HA	2.30	0.61
1:AA:2519:U:O2	1:AA:2522:U:O4	2.18	0.61
2:AB:73:A:N1	23:AW:29:TYR:CE2	2.69	0.61
2:AB:75:G:N3	2:AB:75:G:H2'	2.15	0.61
2:AB:77:U:H6	2:AB:77:U:H3'	1.64	0.61
2:AB:104:A:N6	2:AB:105:G:N2	2.48	0.61
4:AD:76:PRO:HA	4:AD:118:VAL:HG21	1.81	0.61
5:AE:92:THR:CG2	5:AE:96:PHE:HB2	2.30	0.61
7:AG:9:ARG:HG3	7:AG:9:ARG:HH11	1.65	0.61
7:AG:116:ASP:CB	7:AG:118:ARG:HH21	2.12	0.61
8:AH:68:THR:HG22	8:AH:72:ILE:HD12	1.83	0.61
10:AJ:108:ALA:HA	10:AJ:109:LYS:C	2.26	0.61
11:AK:33:LEU:O	11:AK:35:ARG:HG3	2.00	0.61
11:AK:42:TRP:HA	11:AK:47:ALA:CB	2.31	0.61
11:AK:54:VAL:HG12	11:AK:122:VAL:CG1	2.30	0.61
12:AL:25:LEU:N	12:AL:39:ILE:HG22	2.14	0.61
12:AL:64:ARG:CZ	12:AL:66:LYS:H	2.13	0.61
12:AL:97:ARG:NH2	12:AL:98:VAL:CA	2.64	0.61
12:AL:112:MET:O	12:AL:115:VAL:N	2.34	0.61
12:AL:112:MET:CG	34:BA:345:C:N3	2.52	0.61
14:AN:46:GLN:O	14:AN:49:ALA:CB	2.46	0.61
14:AN:65:PHE:C	14:AN:66:ILE:HD12	2.25	0.61
14:AN:104:PHE:O	14:AN:105:GLU:CD	2.43	0.61
15:AO:51:LEU:HG	15:AO:66:VAL:CG1	2.30	0.61
16:AP:7:TYR:HB3	16:AP:11:LYS:HZ2	1.65	0.61
16:AP:79:ALA:O	16:AP:80:LEU:C	2.44	0.61
17:AQ:32:TYR:HB3	17:AQ:88:ILE:HA	1.82	0.61
18:AR:8:VAL:N	18:AR:11:ARG:HH21	1.98	0.61
18:AR:52:ARG:C	18:AR:54:LYS:N	2.58	0.61
18:AR:59:ARG:O	18:AR:62:ILE:N	2.34	0.61
18:AR:88:ILE:HB	19:AS:52:VAL:HG13	1.83	0.61
22:AV:76:CYS:HB3	22:AV:100:ALA:HB3	1.83	0.61
22:AV:97:ARG:NH2	22:AV:101:LYS:HD3	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:39:VAL:HG22	23:AW:44:PHE:HE2	1.64	0.61
25:AY:11:LEU:HD12	25:AY:11:LEU:N	2.15	0.61
30:Ad:38:GLY:O	30:Ad:39:ARG:HB2	2.01	0.61
30:Ad:43:THR:CG2	30:Ad:46:VAL:HB	2.31	0.61
31:Ae:7:HIS:O	31:Ae:8:LYS:C	2.43	0.61
31:Ae:51:ALA:O	31:Ae:54:GLU:OE1	2.18	0.61
32:Af:9:ARG:NH2	32:Af:16:VAL:HG11	2.16	0.61
34:BA:59:A:O2'	34:BA:388:G:H5''	2.00	0.61
34:BA:306:G:N3	34:BA:307:C:C6	2.69	0.61
34:BA:354:G:N2	34:BA:355:C:C2	2.69	0.61
34:BA:692:U:O4	44:BO:52:GLY:C	2.43	0.61
34:BA:697:U:C2'	34:BA:698:G:C8	2.84	0.61
34:BA:859:A:H2'	34:BA:860:A:O5'	1.99	0.61
34:BA:1005:A:C1'	34:BA:1036:G:N2	2.63	0.61
34:BA:1095:U:OP1	34:BA:1108:G:N2	2.34	0.61
34:BA:1219:U:H2'	52:BW:52:TYR:CE2	2.35	0.61
34:BA:1313:U:O4	34:BA:1325:C:N3	2.34	0.61
34:BA:1316:G:H4'	34:BA:1360:A:N6	2.12	0.61
34:BA:1317:C:H2'	34:BA:1318:A:O4'	2.00	0.61
34:BA:1389:C:H2'	34:BA:1390:U:C5'	2.31	0.61
34:BA:1392:G:H2'	34:BA:1393:U:C6	2.36	0.61
35:BF:109:SER:O	35:BF:110:GLN:C	2.42	0.61
35:BF:113:HIS:HA	35:BF:116:GLU:CD	2.26	0.61
35:BF:114:ARG:HH12	35:BF:141:GLU:HG3	1.66	0.61
36:BG:36:ASP:OD2	36:BG:40:ARG:NH1	2.34	0.61
36:BG:47:LEU:HD12	36:BG:83:ARG:HH21	1.66	0.61
38:BI:94:ALA:CB	38:BI:119:LEU:HD21	2.31	0.61
39:BJ:39:LYS:O	39:BJ:63:TYR:HA	2.00	0.61
40:BK:26:PHE:CD2	40:BK:43:PHE:HE1	2.19	0.61
40:BK:75:VAL:HG22	40:BK:88:PRO:N	2.16	0.61
40:BK:155:ARG:HH11	40:BK:156:TRP:H	1.45	0.61
41:BL:1:MET:HG2	41:BL:2:LEU:H	1.66	0.61
41:BL:98:LYS:HG2	41:BL:98:LYS:O	2.01	0.61
43:BN:62:HIS:O	47:BR:59:ALA:HB3	2.01	0.61
44:BO:28:THR:HG22	44:BO:29:ILE:N	2.15	0.61
45:BP:97:ARG:C	45:BP:98:TYR:CD1	2.79	0.61
46:BQ:84:ILE:CD1	52:BW:66:MET:O	2.48	0.61
48:BS:62:GLN:CD	48:BS:65:ARG:NH2	2.59	0.61
48:BS:71:GLN:HB2	48:BS:78:TYR:HE1	1.63	0.61
51:BV:31:LEU:HD12	51:BV:31:LEU:N	2.16	0.61
52:BW:4:SER:N	52:BW:5:LEU:HB3	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:393:ASP:N	55:CA:394:GLY:HA3	2.14	0.61
55:CA:431:PRO:CA	55:CA:437:VAL:HG23	2.31	0.61
1:AA:6:A:C2	1:AA:2898:U:C1'	2.82	0.61
1:AA:6:A:N3	1:AA:2898:U:N1	2.49	0.61
1:AA:18:C:O2	1:AA:553:U:H5''	2.01	0.61
1:AA:27:G:N2	1:AA:512:G:O2'	2.33	0.61
1:AA:290:G:C8	1:AA:290:G:OP1	2.54	0.61
1:AA:319:C:C2'	1:AA:320:A:O4'	2.49	0.61
1:AA:412:A:H2'	1:AA:413:C:O4'	2.01	0.61
1:AA:557:U:H2'	1:AA:558:G:O4'	2.01	0.61
1:AA:704:G:H22	1:AA:726:G:C2'	2.14	0.61
1:AA:775:G:C4'	1:AA:777:A:C4	2.84	0.61
1:AA:901:A:C3'	1:AA:902:C:H5'	2.31	0.61
1:AA:919:G:H4'	2:AB:81:G:O2'	2.00	0.61
1:AA:1303:G:C8	1:AA:1304:C:C5	2.88	0.61
1:AA:1313:U:O4	21:AU:62:LYS:HB2	2.01	0.61
1:AA:1458:C:H4'	1:AA:1459:G:N7	2.15	0.61
1:AA:1616:A:H5''	1:AA:1617:C:OP1	2.01	0.61
1:AA:2178:C:OP1	3:AC:46:LYS:HG2	2.00	0.61
1:AA:2321:G:H2'	1:AA:2321:G:N3	2.16	0.61
1:AA:2439:A:H4'	1:AA:2440:C:H5''	1.82	0.61
1:AA:2571:C:C1'	5:AE:146:THR:HG23	2.28	0.61
1:AA:2682:U:N3	5:AE:21:VAL:HG11	2.16	0.61
1:AA:2747:G:C5	1:AA:2756:U:O4	2.53	0.61
1:AA:2838:G:O2'	15:AO:45:ARG:NH1	2.34	0.61
2:AB:104:A:N6	2:AB:105:G:H21	1.98	0.61
3:AC:26:ALA:CB	3:AC:185:LEU:HB2	2.31	0.61
3:AC:58:VAL:HG11	3:AC:199:HIS:HB3	1.83	0.61
4:AD:145:VAL:HB	4:AD:155:LEU:HD22	1.83	0.61
4:AD:169:GLU:CG	4:AD:184:LYS:HZ1	2.13	0.61
4:AD:181:GLU:HA	4:AD:270:ILE:CG2	2.29	0.61
5:AE:49:LEU:HD13	5:AE:76:ARG:HG3	1.82	0.61
5:AE:117:MET:SD	5:AE:136:ARG:CG	2.78	0.61
5:AE:147:PRO:CD	5:AE:148:GLY:N	2.64	0.61
6:AF:95:ARG:CZ	6:AF:96:ASP:O	2.49	0.61
6:AF:125:LEU:HD22	6:AF:128:ALA:HB2	1.82	0.61
7:AG:118:ARG:O	7:AG:180:PHE:CE1	2.54	0.61
7:AG:121:ASN:ND2	7:AG:133:LEU:HD21	2.16	0.61
8:AH:37:VAL:O	8:AH:37:VAL:HG22	2.01	0.61
8:AH:157:TYR:HD1	8:AH:158:HIS:HB2	1.66	0.61
10:AJ:104:VAL:CG1	10:AJ:127:ILE:HD13	0.32	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:31:ALA:O	11:AK:32:THR:C	2.43	0.61
12:AL:4:PRO:CG	12:AL:5:GLN:N	2.51	0.61
13:AM:54:GLY:HA2	31:Ae:12:LYS:CD	2.30	0.61
14:AN:6:ARG:HE	14:AN:8:LYS:CG	2.14	0.61
14:AN:67:ARG:NE	14:AN:105:GLU:OE1	2.34	0.61
15:AO:5:LYS:HZ1	15:AO:6:SER:N	1.99	0.61
17:AQ:110:ILE:HB	17:AQ:113:LYS:HG3	1.82	0.61
21:AU:21:PHE:HE1	21:AU:27:THR:N	1.96	0.61
22:AV:8:LYS:HA	22:AV:28:LYS:CD	2.31	0.61
24:AX:19:LYS:O	24:AX:20:ARG:NH1	2.33	0.61
27:Aa:58:ARG:CB	27:Aa:62:ARG:NH2	2.64	0.61
28:Ab:55:ARG:C	28:Ab:57:VAL:H	2.09	0.61
31:Ae:4:MET:HE1	31:Ae:62:LEU:CD1	2.30	0.61
31:Ae:25:MET:O	31:Ae:27:THR:CG2	2.45	0.61
34:BA:64:G:N2	34:BA:67:C:C4	2.69	0.61
34:BA:191(C):G:O5'	34:BA:191(C):G:H8	1.84	0.61
34:BA:245:C:C2	34:BA:284:G:C2	2.89	0.61
34:BA:293:G:H2'	34:BA:293:G:N3	2.15	0.61
34:BA:376:G:OP1	49:BT:6:LEU:HD13	2.00	0.61
34:BA:405:U:H5''	34:BA:406:G:O4'	2.01	0.61
34:BA:501:C:H2'	34:BA:502:G:H8	1.66	0.61
34:BA:594:G:C5	34:BA:595:G:N3	2.69	0.61
34:BA:755:G:N3	41:BL:1:MET:HE1	2.16	0.61
34:BA:780:A:H2	34:BA:803:G:C6	2.19	0.61
34:BA:782:A:C6	34:BA:801:U:C2	2.88	0.61
34:BA:816:A:C2'	34:BA:817:C:OP2	2.49	0.61
34:BA:818:G:N3	34:BA:820:U:C5	2.69	0.61
34:BA:923:A:O4'	34:BA:1398:A:C2	2.54	0.61
34:BA:1126:U:O4'	34:BA:1280:A:N7	2.32	0.61
34:BA:1274:G:N2	34:BA:1275:A:N6	2.46	0.61
34:BA:1307:U:O3'	46:BQ:97:PRO:HA	2.01	0.61
34:BA:1438:G:C6	34:BA:1439:C:C4	2.88	0.61
35:BF:84:GLU:OE1	35:BF:216:SER:HA	2.01	0.61
35:BF:146:GLN:O	35:BF:148:TYR:N	2.34	0.61
36:BG:8:ILE:O	36:BG:11:ARG:N	2.33	0.61
38:BI:91:LEU:HD12	38:BI:118:ILE:CG2	2.31	0.61
39:BJ:60:PHE:CE2	51:BV:78:LEU:HD11	2.34	0.61
41:BL:5:PRO:O	41:BL:6:ILE:C	2.42	0.61
42:BM:28:VAL:O	42:BM:29:ASN:C	2.44	0.61
45:BP:43:VAL:HG12	45:BP:44:THR:O	2.01	0.61
48:BS:71:GLN:O	48:BS:75:PRO:HD3	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:20:VAL:HG11	49:BT:32:TYR:CB	2.31	0.61
49:BT:75:ARG:HA	49:BT:80:PHE:CB	2.31	0.61
50:BU:27:PHE:O	50:BU:35:VAL:HG13	2.00	0.61
51:BV:36:ASN:C	51:BV:40:LEU:HG	2.26	0.61
55:CA:102:PHE:CD1	55:CA:102:PHE:O	2.53	0.61
55:CA:370:ILE:CG2	55:CA:565:LEU:CD1	2.74	0.61
1:AA:6:A:C5	1:AA:2897:U:N3	2.68	0.60
1:AA:76:C:H4'	25:AY:54:ARG:HG2	1.83	0.60
1:AA:225:A:O2'	1:AA:257:A:H4'	2.01	0.60
1:AA:251:A:H3'	1:AA:251:A:P	2.41	0.60
1:AA:443:A:O4'	1:AA:1201:C:C4'	2.48	0.60
1:AA:459:U:OP2	30:Ad:40:TRP:CA	2.49	0.60
1:AA:539:G:H2'	1:AA:540:G:H8	1.66	0.60
1:AA:558:G:C2	1:AA:559:G:C5	2.89	0.60
1:AA:728:G:H22	1:AA:762:U:P	2.24	0.60
1:AA:744:G:H2'	1:AA:745:G:C8	2.35	0.60
1:AA:772:C:H4'	4:AD:48:ARG:HD3	1.83	0.60
1:AA:811:U:H1'	1:AA:1251:C:O2	2.00	0.60
1:AA:976:C:N4	1:AA:988:A:N3	2.48	0.60
1:AA:988:A:H5''	26:AZ:10:LYS:CE	2.31	0.60
1:AA:995:C:H1'	18:AR:57:PHE:CZ	2.36	0.60
1:AA:1000:A:C2	1:AA:1155:A:C2	2.88	0.60
1:AA:1078:U:C5'	10:AJ:137:GLU:OE2	2.49	0.60
1:AA:1287:A:C8	15:AO:104:ARG:NH1	2.69	0.60
1:AA:1447:G:H1'	1:AA:1545(A):A:H1'	1.83	0.60
1:AA:1451:C:H2'	1:AA:1457:A:H61	1.64	0.60
1:AA:1780:A:OP2	1:AA:1782:C:OP2	2.19	0.60
1:AA:1788:C:N3	1:AA:1789:A:C8	2.68	0.60
1:AA:1819:A:OP1	4:AD:157:ARG:HA	2.01	0.60
1:AA:1954:G:H2'	1:AA:1956:U:C4	2.36	0.60
1:AA:2020:A:H4'	1:AA:2020:A:OP1	2.01	0.60
1:AA:2020:A:N6	1:AA:2034:U:O4	2.34	0.60
1:AA:2254:C:O2'	1:AA:2255:G:H5'	1.99	0.60
1:AA:2259:G:C2	1:AA:2282:G:C6	2.89	0.60
1:AA:2311:A:H2	7:AG:45:GLU:HG2	1.66	0.60
1:AA:2320:A:C8	1:AA:2320:A:P	2.94	0.60
1:AA:2403:C:N4	1:AA:2415:G:C6	2.69	0.60
1:AA:2466:C:H2'	1:AA:2467:C:C6	2.35	0.60
1:AA:2522:U:O2	1:AA:2765:A:N6	2.34	0.60
1:AA:2570:G:C5'	1:AA:2571:C:OP2	2.47	0.60
1:AA:2578:G:O2'	1:AA:2579:C:H6	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2629:A:H5'	1:AA:2895:U:C2	2.34	0.60
2:AB:13:A:C6	2:AB:70:C:O4'	2.54	0.60
3:AC:75:LEU:HD13	3:AC:110:PHE:CE2	2.36	0.60
3:AC:122:ALA:HB1	3:AC:126:LYS:CD	2.27	0.60
4:AD:7:LYS:HD3	4:AD:9:TYR:OH	2.00	0.60
6:AF:125:LEU:O	6:AF:127:GLU:N	2.32	0.60
7:AG:55:LYS:CG	7:AG:148:MET:HB2	2.30	0.60
7:AG:170:ARG:HD3	7:AG:174:GLU:CB	2.31	0.60
8:AH:17:VAL:CG2	8:AH:45:VAL:HG11	2.25	0.60
11:AK:42:TRP:CD1	11:AK:42:TRP:H	2.17	0.60
11:AK:100:GLU:HA	11:AK:103:VAL:CG1	2.31	0.60
12:AL:31:LYS:HB3	12:AL:32:TYR:CZ	2.36	0.60
12:AL:32:TYR:O	12:AL:34:THR:N	2.34	0.60
12:AL:97:ARG:CG	12:AL:117:LEU:CD2	2.79	0.60
12:AL:111:PHE:O	12:AL:112:MET:C	2.43	0.60
14:AN:119:ARG:O	14:AN:123:HIS:CB	2.48	0.60
15:AO:10:LEU:HB2	15:AO:17:ARG:CZ	2.31	0.60
18:AR:37:GLU:O	18:AR:38:THR:C	2.44	0.60
18:AR:113:ALA:O	18:AR:116:ALA:HB3	2.01	0.60
19:AS:93:GLU:OE2	19:AS:95:LEU:HD22	2.01	0.60
20:AT:22:ASP:HB2	28:Ab:25:LEU:HD21	1.83	0.60
23:AW:95:PRO:HB2	23:AW:130:PRO:HA	1.83	0.60
24:AX:50:ASN:HB3	24:AX:63:VAL:HG22	1.82	0.60
25:AY:65:GLN:HE21	25:AY:65:GLN:N	1.99	0.60
26:AZ:26:LEU:CB	26:AZ:35:ARG:HH21	2.14	0.60
26:AZ:45:GLY:C	26:AZ:48:GLU:HG2	2.26	0.60
30:Ad:17:GLY:O	30:Ad:21:ARG:NH2	2.34	0.60
34:BA:65:U:H4'	34:BA:66:G:O5'	2.01	0.60
34:BA:321:A:H61	34:BA:332:G:H1	1.49	0.60
34:BA:389:A:C6	34:BA:390:C:C1'	2.83	0.60
34:BA:407:G:N2	34:BA:436:C:H1'	2.15	0.60
34:BA:600:C:C2	34:BA:639:G:N2	2.69	0.60
34:BA:632:A:C4	34:BA:633:G:C8	2.89	0.60
34:BA:918:A:O2'	34:BA:919:A:OP1	2.19	0.60
34:BA:979:C:H42	47:BR:18:VAL:CB	2.13	0.60
34:BA:1124:G:N7	34:BA:1145:C:H2'	2.15	0.60
34:BA:1419:G:O6	34:BA:1482:G:C6	2.54	0.60
34:BA:1455:G:O3'	53:BX:28:ALA:O	2.19	0.60
35:BF:136:VAL:HA	35:BF:139:LYS:HZ3	1.65	0.60
35:BF:141:GLU:OE1	35:BF:142:LEU:N	2.33	0.60
35:BF:150:SER:O	35:BF:151:GLY:C	2.44	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:10:PHE:HD1	36:BG:178:LEU:CD2	2.14	0.60
36:BG:46:GLU:C	36:BG:47:LEU:HD22	2.26	0.60
37:BH:176:LEU:HG	37:BH:176:LEU:O	2.01	0.60
39:BJ:10:LEU:HD11	39:BJ:61:LEU:CD1	2.31	0.60
39:BJ:30:LEU:CA	39:BJ:75:LEU:HD11	2.23	0.60
39:BJ:33:TYR:CE2	39:BJ:75:LEU:N	2.69	0.60
40:BK:51:GLN:HE22	40:BK:58:PRO:CG	2.13	0.60
40:BK:71:PRO:CD	40:BK:100:ALA:HB2	2.31	0.60
40:BK:140:ASP:O	40:BK:144:MET:HB3	1.99	0.60
41:BL:34:GLU:HA	41:BL:34:GLU:OE1	2.00	0.60
41:BL:37:ARG:HD2	41:BL:38:ILE:N	2.16	0.60
41:BL:129:VAL:CG2	41:BL:130:GLY:H	2.09	0.60
43:BN:12:ASP:O	43:BN:16:LEU:HD23	2.01	0.60
43:BN:40:LEU:HB2	43:BN:69:ASN:HB2	1.82	0.60
44:BO:100:ALA:C	44:BO:102:GLY:N	2.59	0.60
46:BQ:15:VAL:CG2	46:BQ:39:ILE:HD11	1.25	0.60
47:BR:29:ARG:HH11	47:BR:29:ARG:CB	2.06	0.60
48:BS:49:ASP:OD1	48:BS:52:SER:HB2	2.01	0.60
50:BU:28:PRO:C	50:BU:36:ILE:HD11	2.26	0.60
51:BV:34:TYR:HD1	51:BV:35:ARG:N	1.99	0.60
55:CA:50:LYS:HZ1	55:CA:368:VAL:CG2	2.14	0.60
55:CA:236:GLN:NE2	55:CA:245:LYS:HB2	2.15	0.60
55:CA:290:ASP:O	55:CA:292:GLN:N	2.28	0.60
55:CA:310:PHE:C	55:CA:384:ARG:H	2.09	0.60
55:CA:411:HIS:HD2	55:CA:459:THR:CG2	2.13	0.60
55:CA:505:GLN:HB3	55:CA:510:LEU:HD11	1.82	0.60
55:CA:580:VAL:CG1	55:CA:585:ILE:CD1	2.79	0.60
1:AA:72:U:C5	1:AA:112:U:O2	2.54	0.60
1:AA:140:A:C2	1:AA:1408:C:O2	2.53	0.60
1:AA:230:U:O2'	1:AA:231:C:O4'	2.19	0.60
1:AA:273(B):C:H2'	1:AA:273(C):C:H6	1.66	0.60
1:AA:318:C:O2	1:AA:334:C:C2	2.54	0.60
1:AA:404:C:H5'	1:AA:406:G:O4'	2.01	0.60
1:AA:440:G:H2'	1:AA:441:U:C6	2.36	0.60
1:AA:447:A:C6	1:AA:454:A:N7	2.69	0.60
1:AA:573:G:O2'	1:AA:574:C:P	2.59	0.60
1:AA:628:G:H8	1:AA:628:G:P	2.24	0.60
1:AA:712:G:C5	1:AA:713:G:N7	2.68	0.60
1:AA:718:A:C8	1:AA:719:C:C6	2.89	0.60
1:AA:771:G:C2	1:AA:772:C:C4	2.89	0.60
1:AA:1012:U:H5'	1:AA:1013:C:OP1	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1523:U:H2'	1:AA:1524:G:O4'	2.01	0.60
1:AA:1634:A:O3'	1:AA:1635:G:C8	2.54	0.60
1:AA:1751:C:O4'	1:AA:2860:A:C2	2.55	0.60
1:AA:1769:G:C6	1:AA:1984:G:C6	2.89	0.60
1:AA:1784:A:H1'	1:AA:1785:A:N7	2.16	0.60
1:AA:2080:G:O2'	1:AA:2081:C:H5'	2.00	0.60
1:AA:2273:A:N7	1:AA:2274:A:C4	2.68	0.60
1:AA:2286:A:N6	29:Ac:29:ASN:C	2.59	0.60
1:AA:2306:C:H4'	7:AG:153:ARG:HH11	1.66	0.60
1:AA:2313:C:H2'	1:AA:2314:C:H6	1.65	0.60
1:AA:2356:C:H3'	1:AA:2357:U:C5	2.36	0.60
1:AA:2415:G:N2	1:AA:2416:C:C2	2.69	0.60
1:AA:2497:A:C2'	1:AA:2498:C:OP2	2.49	0.60
1:AA:2582:G:C2	1:AA:2583:G:H1'	2.36	0.60
1:AA:2597:G:O4'	4:AD:242:ARG:CZ	2.49	0.60
1:AA:2646:C:C4	1:AA:2647:U:O4	2.54	0.60
1:AA:2660:A:N3	55:CA:456:MET:O	2.34	0.60
1:AA:2695:C:H2'	1:AA:2696:U:H5	1.63	0.60
2:AB:12:C:C4'	24:AX:74:ARG:HG2	2.31	0.60
2:AB:93:C:H2'	2:AB:94:C:H6	1.65	0.60
4:AD:14:ARG:C	4:AD:15:PHE:CD2	2.79	0.60
4:AD:59:LYS:O	4:AD:60:ARG:HG2	2.01	0.60
4:AD:80:ALA:CB	4:AD:94:LEU:O	2.47	0.60
4:AD:232:PRO:HG2	4:AD:247:ALA:N	2.16	0.60
5:AE:58:ARG:HH21	5:AE:75:VAL:HG13	1.66	0.60
5:AE:103:ASP:N	5:AE:200:GLU:OE1	2.34	0.60
5:AE:154:LYS:HZ1	5:AE:156:MET:HB2	1.66	0.60
6:AF:41:LEU:HD12	6:AF:42:ALA:N	2.16	0.60
7:AG:13:GLU:O	7:AG:17:PRO:HD2	2.01	0.60
7:AG:75:LYS:NZ	7:AG:87:PRO:HD3	2.15	0.60
7:AG:139:LEU:HD13	7:AG:142:PRO:HB3	1.82	0.60
8:AH:120:GLY:HA3	8:AH:136:ILE:CG2	2.27	0.60
11:AK:69:GLN:C	11:AK:70:LYS:HD3	2.26	0.60
12:AL:11:ALA:HB3	12:AL:97:ARG:NH2	2.13	0.60
12:AL:21:CYS:CA	12:AL:41:ALA:HB2	2.31	0.60
12:AL:24:VAL:HG22	12:AL:30:ALA:CA	2.30	0.60
12:AL:63:VAL:HG23	12:AL:64:ARG:N	2.14	0.60
13:AM:52:GLU:O	13:AM:55:ARG:N	2.34	0.60
14:AN:44:ALA:C	14:AN:48:GLU:OE2	2.44	0.60
14:AN:124:LYS:O	14:AN:125:LEU:C	2.44	0.60
15:AO:11:ASN:CG	15:AO:12:ARG:H	2.07	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:57:LYS:NZ	16:AP:62:LYS:HB3	2.16	0.60
18:AR:98:LEU:CB	18:AR:105:VAL:HG11	2.31	0.60
20:AT:24:ILE:HG23	20:AT:35:ILE:HG23	1.82	0.60
21:AU:51:VAL:HG13	21:AU:81:VAL:HG21	1.83	0.60
22:AV:23:ARG:CD	22:AV:39:VAL:HG22	2.28	0.60
27:Aa:20:ASN:HB2	27:Aa:30:GLU:OE1	2.01	0.60
27:Aa:33:VAL:HG12	27:Aa:35:VAL:HG23	1.82	0.60
30:Ad:36:GLN:HA	30:Ad:36:GLN:NE2	2.14	0.60
31:Ae:50:LEU:O	31:Ae:53:PRO:HD2	2.01	0.60
32:Af:32:HIS:O	32:Af:34:GLN:HG3	2.01	0.60
34:BA:6:G:N1	38:BI:96:PRO:HG2	2.12	0.60
34:BA:80:G:C2'	34:BA:81:G:O4'	2.35	0.60
34:BA:173:U:H4'	34:BA:197:A:H1'	1.83	0.60
34:BA:287:U:O2	34:BA:287:U:C2'	2.46	0.60
34:BA:571:U:C3'	34:BA:572:A:C5'	2.72	0.60
34:BA:675:A:H2'	34:BA:676:A:O4'	2.01	0.60
34:BA:703:G:H8	34:BA:703:G:O5'	1.84	0.60
34:BA:794:A:H2'	34:BA:795:C:C6	2.37	0.60
34:BA:1215:G:C2	34:BA:1216:G:C8	2.89	0.60
34:BA:1255:G:H21	34:BA:1276:G:H22	1.49	0.60
34:BA:1270:C:C2'	34:BA:1313:U:C4'	2.76	0.60
34:BA:1306:A:H61	34:BA:1331:G:H1'	1.65	0.60
34:BA:1327:C:OP1	54:BY:20:LYS:HE2	2.01	0.60
34:BA:1381:U:H2'	34:BA:1382:C:H5'	1.81	0.60
35:BF:19:HIS:HB3	35:BF:189:ASP:OD2	2.00	0.60
35:BF:55:PHE:HA	35:BF:58:ILE:CG1	2.31	0.60
35:BF:97:TRP:CZ3	35:BF:176:GLU:HG3	2.35	0.60
35:BF:118:LEU:HD22	35:BF:142:LEU:HD12	1.82	0.60
35:BF:182:ILE:HD13	35:BF:182:ILE:H	1.66	0.60
35:BF:212:GLN:O	35:BF:213:LEU:C	2.43	0.60
36:BG:188:LEU:HD22	36:BG:189:ALA:H	1.64	0.60
36:BG:196:LEU:N	36:BG:196:LEU:HD23	2.14	0.60
37:BH:151:LYS:CD	37:BH:151:LYS:H	2.14	0.60
37:BH:172:PRO:HG3	37:BH:193:ASP:HB3	1.83	0.60
37:BH:190:ASP:O	37:BH:191:ARG:C	2.43	0.60
38:BI:12:LEU:HG	38:BI:129:ILE:CG1	2.30	0.60
38:BI:78:HIS:HB2	41:BL:104:ARG:HD3	1.84	0.60
39:BJ:95:GLU:C	51:BV:32:ARG:HG3	2.26	0.60
40:BK:87:VAL:HG21	40:BK:154:TYR:HB2	1.82	0.60
41:BL:46:LYS:HD2	41:BL:63:LEU:O	2.01	0.60
41:BL:51:VAL:HG12	41:BL:52:ASP:N	2.16	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:97:VAL:HG22	41:BL:98:LYS:N	2.14	0.60
41:BL:119:LEU:HB3	41:BL:124:ALA:HB2	1.83	0.60
44:BO:42:TRP:HE3	44:BO:43:SER:N	1.99	0.60
44:BO:104:GLN:HE22	44:BO:106:LYS:HB2	1.65	0.60
45:BP:34:ARG:HG3	45:BP:105:TYR:CE1	2.36	0.60
45:BP:85:ILE:HD12	45:BP:99:HIS:C	2.26	0.60
48:BS:70:LEU:HG	48:BS:78:TYR:CB	2.30	0.60
51:BV:66:LEU:O	51:BV:70:ILE:HG13	2.01	0.60
52:BW:4:SER:HA	52:BW:5:LEU:C	2.26	0.60
55:CA:10:ILE:HG12	55:CA:96:LEU:HB2	1.82	0.60
55:CA:77:GLY:HA2	55:CA:78:HIS:C	2.26	0.60
55:CA:105:PRO:C	55:CA:106:MET:HE2	2.25	0.60
55:CA:206:GLN:HB3	55:CA:227:LYS:HB2	1.80	0.60
55:CA:243:GLU:OE2	55:CA:243:GLU:N	2.34	0.60
1:AA:38:A:H5'	6:AF:50:SER:HA	1.84	0.60
1:AA:66:C:H2'	1:AA:67:U:H5'	1.83	0.60
1:AA:85:G:H1'	1:AA:103:A:N1	2.15	0.60
1:AA:257:A:O5'	1:AA:257:A:C8	2.53	0.60
1:AA:324:A:N3	1:AA:324:A:H2'	2.16	0.60
1:AA:502:A:H3'	1:AA:502:A:H8	1.66	0.60
1:AA:653:A:H5'	1:AA:654:A:HO2'	1.64	0.60
1:AA:845:G:H5''	1:AA:846:C:OP1	2.00	0.60
1:AA:881:G:C2	1:AA:896:A:C8	2.86	0.60
1:AA:954:G:OP1	14:AN:17:LEU:HB3	2.00	0.60
1:AA:1155:A:C2'	1:AA:1156:A:C5'	2.75	0.60
1:AA:1164:G:C5	1:AA:1165:U:C5	2.89	0.60
1:AA:1250:G:H4'	18:AR:6:THR:HG21	1.83	0.60
1:AA:1279:G:H2'	1:AA:1280:G:H8	1.65	0.60
1:AA:1291:C:H5'	1:AA:1535:U:HO2'	1.65	0.60
1:AA:1416:G:N2	1:AA:1417:C:N4	2.48	0.60
1:AA:1419:A:N7	1:AA:1421:G:C6	2.68	0.60
1:AA:1536:A:H2'	1:AA:1537:C:C6	2.36	0.60
1:AA:1613:G:P	30:Ad:5:TRP:HD1	2.24	0.60
1:AA:1650:G:O2'	1:AA:1651:G:P	2.58	0.60
1:AA:1893:C:O2'	1:AA:1894:C:H5'	2.02	0.60
1:AA:2020:A:N6	1:AA:2022:U:C2	2.69	0.60
1:AA:2053:G:C2'	1:AA:2054:A:O5'	2.49	0.60
1:AA:2311:A:O3'	7:AG:86:MET:HE2	2.01	0.60
1:AA:2384:G:O2'	1:AA:2385:C:OP1	2.19	0.60
1:AA:2393:A:H2'	1:AA:2394:C:H6	1.66	0.60
1:AA:2491:U:O2	1:AA:2492:U:C5	2.54	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2550:G:N2	1:AA:2559:C:C2	2.69	0.60
1:AA:2666:C:H41	1:AA:2667:C:H41	1.48	0.60
1:AA:2671:A:C2	1:AA:2672:G:C5	2.89	0.60
1:AA:2696:U:O2'	1:AA:2697:G:H5'	2.00	0.60
1:AA:2895:U:H2'	1:AA:2896:C:C6	2.35	0.60
2:AB:3:C:H2'	2:AB:4:C:C6	2.36	0.60
2:AB:14:U:H1'	2:AB:107:U:O4'	2.00	0.60
2:AB:55:U:C2'	2:AB:56:G:H5'	2.30	0.60
2:AB:61:G:C2	2:AB:62:C:C4	2.89	0.60
4:AD:7:LYS:HE2	4:AD:25:THR:CG2	2.31	0.60
4:AD:232:PRO:HG2	4:AD:247:ALA:C	2.26	0.60
5:AE:8:LYS:HZ2	17:AQ:3:ARG:CG	2.14	0.60
6:AF:36:VAL:O	6:AF:184:TYR:OH	2.19	0.60
7:AG:61:ALA:HB1	7:AG:67:LYS:HE2	1.82	0.60
7:AG:77:ILE:O	7:AG:83:ARG:CZ	2.49	0.60
7:AG:123:ASN:HB2	7:AG:126:ASP:HB2	1.84	0.60
8:AH:7:LEU:N	8:AH:8:PRO:CD	2.57	0.60
8:AH:133:VAL:HG22	8:AH:134:SER:N	2.15	0.60
8:AH:150:ALA:O	8:AH:152:ARG:N	2.34	0.60
12:AL:70:LYS:NZ	12:AL:103:ALA:HB3	2.16	0.60
13:AM:52:GLU:HA	13:AM:55:ARG:CG	2.30	0.60
13:AM:112:LEU:O	13:AM:129:ALA:HB3	2.02	0.60
14:AN:42:ILE:CD1	14:AN:42:ILE:C	2.72	0.60
16:AP:17:ARG:O	16:AP:20:ARG:CG	2.49	0.60
16:AP:89:ARG:CG	16:AP:90:GLY:N	2.57	0.60
19:AS:57:VAL:CG1	19:AS:58:VAL:H	2.02	0.60
23:AW:23:LYS:HG3	23:AW:39:VAL:O	2.01	0.60
24:AX:39:ARG:HG2	24:AX:58:THR:OG1	2.01	0.60
29:Ac:9:LEU:HD13	29:Ac:27:LYS:HA	1.82	0.60
34:BA:107:G:C6	53:BX:15:ARG:NH2	2.69	0.60
34:BA:131:C:N4	34:BA:232:G:N1	2.48	0.60
34:BA:186:C:H2'	34:BA:186(A):C:H6	1.66	0.60
34:BA:425:G:O2'	34:BA:426:G:H5'	2.00	0.60
34:BA:434:U:H2'	34:BA:435:C:C6	2.35	0.60
34:BA:467:G:OP2	34:BA:467:G:H3'	2.01	0.60
34:BA:827:U:H4'	41:BL:19:VAL:CG2	2.26	0.60
34:BA:989:C:O2'	34:BA:990:C:H5'	2.00	0.60
34:BA:1010:G:C2	34:BA:1020:U:H1'	2.37	0.60
34:BA:1017:G:O2'	34:BA:1018:C:H5'	2.01	0.60
34:BA:1054:C:OP2	34:BA:1197:G:P	2.59	0.60
34:BA:1253:G:OP1	43:BN:44:VAL:HB	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1373:G:OP1	42:BM:42:ARG:NH2	2.34	0.60
35:BF:97:TRP:HB3	35:BF:172:ILE:HD12	1.83	0.60
36:BG:24:ALA:HB3	36:BG:29:TYR:HB2	1.81	0.60
36:BG:180:ALA:HB1	36:BG:182:ILE:HD11	1.81	0.60
37:BH:20:TYR:CB	37:BH:26:CYS:O	2.49	0.60
37:BH:87:GLY:O	37:BH:89:THR:N	2.34	0.60
40:BK:65:ALA:HB2	40:BK:124:LEU:HD23	1.83	0.60
42:BM:45:ALA:O	42:BM:78:LYS:HG3	2.01	0.60
43:BN:79:ARG:NH2	43:BN:82:ILE:HG21	2.15	0.60
44:BO:92:GLU:C	44:BO:94:ALA:N	2.57	0.60
45:BP:28:LYS:HZ2	45:BP:33:ARG:NH2	1.89	0.60
45:BP:47:LYS:N	45:BP:48:PRO:CD	2.63	0.60
50:BU:58:GLU:HG2	50:BU:59:ILE:N	2.17	0.60
51:BV:80:PRO:O	51:BV:81:PHE:C	2.44	0.60
53:BX:43:LEU:HD22	53:BX:48:LYS:CB	2.31	0.60
55:CA:6:ARG:NH2	55:CA:196:ALA:HB2	2.17	0.60
55:CA:580:VAL:HB	55:CA:585:ILE:CD1	2.31	0.60
1:AA:70:G:OP1	1:AA:112:U:O4	2.20	0.60
1:AA:263:C:O2	1:AA:263:C:C2'	2.48	0.60
1:AA:315:G:H2'	1:AA:316:C:C1'	2.32	0.60
1:AA:476:G:N1	1:AA:479:A:OP2	2.30	0.60
1:AA:566:U:O2'	1:AA:809:G:OP2	2.17	0.60
1:AA:669:G:H5''	1:AA:670:A:OP2	2.01	0.60
1:AA:675:A:O2'	1:AA:2443:C:H4'	2.01	0.60
1:AA:716:A:H2'	1:AA:717:G:C5'	2.28	0.60
1:AA:819:A:H62	1:AA:1188:U:H3	1.49	0.60
1:AA:822:U:C2	1:AA:823:G:C8	2.89	0.60
1:AA:832:G:OP1	13:AM:35:HIS:HB2	2.02	0.60
1:AA:1024:G:OP2	1:AA:1025:G:H3'	2.01	0.60
1:AA:1055:G:H8	1:AA:1055:G:O5'	1.84	0.60
1:AA:1075:C:H3'	1:AA:1075:C:P	2.41	0.60
1:AA:1083:U:H1'	1:AA:1085:A:C5	2.36	0.60
1:AA:1129:A:O2'	1:AA:2515:C:H1'	2.01	0.60
1:AA:1199:U:O2	1:AA:1200:C:C6	2.55	0.60
1:AA:1241:A:O2'	1:AA:1242:A:P	2.59	0.60
1:AA:1270:C:O5'	1:AA:1270:C:H6	1.84	0.60
1:AA:1389:G:H5'	1:AA:1525:G:C5'	2.31	0.60
1:AA:1506:C:N3	1:AA:1507:A:H1'	2.15	0.60
1:AA:1566:A:C2	4:AD:215:LEU:CD1	2.77	0.60
1:AA:1654:A:OP1	15:AO:3:HIS:CE1	2.55	0.60
1:AA:1655:A:C2	1:AA:1656:C:H1'	2.37	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1996:C:C6	1:AA:1996:C:OP1	2.54	0.60
1:AA:2024:G:O2'	11:AK:78:TYR:OH	2.19	0.60
1:AA:2209:C:OP2	1:AA:2210:G:OP2	2.19	0.60
1:AA:2216:G:O2'	1:AA:2217:G:H5'	2.01	0.60
1:AA:2329:G:H8	1:AA:2329:G:O5'	1.82	0.60
1:AA:2357:U:O5'	1:AA:2357:U:H6	1.84	0.60
1:AA:2362:G:C2'	1:AA:2363:C:H5'	2.31	0.60
1:AA:2414:G:H2'	1:AA:2414:G:N3	2.16	0.60
1:AA:2417:C:C2	1:AA:2418:A:C8	2.90	0.60
1:AA:2479:G:C2	1:AA:2480:C:H1'	2.36	0.60
1:AA:2644:G:O5'	1:AA:2644:G:C8	2.48	0.60
1:AA:2713:A:P	1:AA:2713:A:C8	2.94	0.60
1:AA:2821:A:H2'	1:AA:2822:G:O4'	2.01	0.60
1:AA:2850:A:H2	15:AO:61:HIS:CE1	2.18	0.60
2:AB:6:C:H5'	2:AB:27:C:O2'	2.01	0.60
2:AB:60:C:H2'	2:AB:60:C:O2	1.99	0.60
3:AC:10:LEU:O	3:AC:13:LYS:HB2	2.01	0.60
4:AD:82:ILE:HG22	4:AD:83:GLU:N	2.15	0.60
4:AD:105:ILE:O	4:AD:106:ILE:O	2.20	0.60
4:AD:225:ALA:O	4:AD:226:MET:C	2.44	0.60
5:AE:4:ILE:CD1	5:AE:76:ARG:NH1	2.64	0.60
5:AE:51:PHE:HZ	5:AE:75:VAL:HG22	1.66	0.60
7:AG:6:ALA:HA	7:AG:9:ARG:NE	2.17	0.60
7:AG:110:ALA:HB1	7:AG:139:LEU:CD2	2.32	0.60
10:AJ:12:LEU:HD21	10:AJ:23:VAL:HG22	1.83	0.60
10:AJ:71:THR:HB	10:AJ:72:PRO:CD	2.32	0.60
11:AK:124:ALA:C	11:AK:125:GLY:O	2.38	0.60
12:AL:8:LEU:HD21	12:AL:81:ASP:C	2.26	0.60
13:AM:91:PHE:CD2	13:AM:96:THR:HG22	2.36	0.60
14:AN:64:ILE:HG23	14:AN:106:VAL:O	2.02	0.60
15:AO:52:ILE:HD12	15:AO:94:TYR:HD2	1.65	0.60
15:AO:67:LEU:O	15:AO:68:ARG:C	2.43	0.60
16:AP:49:VAL:HB	16:AP:80:LEU:CD1	2.30	0.60
16:AP:71:ARG:N	16:AP:104:GLY:CA	2.64	0.60
17:AQ:24:PRO:HG2	17:AQ:25:GLY:N	2.12	0.60
17:AQ:99:LEU:O	17:AQ:100:TYR:O	2.19	0.60
18:AR:61:TRP:HZ3	18:AR:93:LYS:C	2.09	0.60
19:AS:39:LEU:O	19:AS:40:LEU:HD12	2.00	0.60
19:AS:65:GLY:N	19:AS:97:LYS:NZ	2.49	0.60
20:AT:14:PRO:O	20:AT:15:ARG:C	2.43	0.60
20:AT:19:LEU:HB3	28:Ab:25:LEU:CD1	2.13	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:72:LYS:O	20:AT:106:ILE:O	2.19	0.60
20:AT:72:LYS:O	20:AT:106:ILE:CG2	2.49	0.60
21:AU:7:VAL:CG2	25:AY:31:ARG:HH12	2.14	0.60
23:AW:94:GLU:CA	23:AW:130:PRO:HB3	2.31	0.60
23:AW:151:HIS:CG	23:AW:168:GLU:HG2	2.37	0.60
24:AX:49:LYS:N	24:AX:80:HIS:CE1	2.67	0.60
27:Aa:31:ILE:O	27:Aa:32:TYR:CB	2.48	0.60
27:Aa:33:VAL:CG1	27:Aa:35:VAL:HG23	2.31	0.60
34:BA:33:A:N3	45:BP:32:PHE:CZ	2.70	0.60
34:BA:90:C:O2'	34:BA:91:C:C5'	2.50	0.60
34:BA:110:C:O5'	34:BA:110:C:H6	1.85	0.60
34:BA:161:A:N6	34:BA:162:A:C6	2.70	0.60
34:BA:224:C:H2'	34:BA:225:C:H6	1.66	0.60
34:BA:274:A:H5'	34:BA:275:G:OP1	2.01	0.60
34:BA:314:C:H2'	34:BA:315:A:C1'	2.31	0.60
34:BA:362:G:N3	34:BA:364:A:C8	2.69	0.60
34:BA:375:U:C3'	49:BT:6:LEU:HD21	2.30	0.60
34:BA:404:U:H4'	37:BH:122:ARG:NH1	2.17	0.60
34:BA:594:G:N7	34:BA:595:G:C2	2.68	0.60
34:BA:1319:A:C2	34:BA:1361:G:N2	2.70	0.60
34:BA:1463:C:H2'	34:BA:1464:G:H5'	1.84	0.60
34:BA:1513:A:H2'	34:BA:1514:C:H6	1.64	0.60
35:BF:18:GLY:CA	35:BF:41:ILE:HG23	2.31	0.60
35:BF:102:LEU:HD22	35:BF:176:GLU:OE1	2.02	0.60
35:BF:124:SER:OG	35:BF:125:PRO:HD2	2.02	0.60
35:BF:208:ILE:HG12	35:BF:211:ILE:HD12	1.82	0.60
36:BG:11:ARG:HG3	36:BG:16:ARG:NE	2.15	0.60
36:BG:33:LEU:CG	47:BR:54:PRO:HD2	2.31	0.60
37:BH:18:LYS:HG2	37:BH:33:MET:CB	2.25	0.60
37:BH:114:ARG:HG3	37:BH:114:ARG:HH11	1.66	0.60
38:BI:96:PRO:C	38:BI:98:THR:N	2.49	0.60
39:BJ:50:TYR:HE1	51:BV:81:PHE:CE2	2.19	0.60
40:BK:41:ARG:HG2	40:BK:41:ARG:HH11	1.66	0.60
41:BL:6:ILE:CD1	41:BL:85:ARG:HD3	2.32	0.60
41:BL:48:TYR:HA	41:BL:60:ARG:O	2.02	0.60
42:BM:27:THR:HG23	42:BM:30:GLY:O	2.02	0.60
43:BN:26:ALA:C	43:BN:28:ARG:H	2.09	0.60
43:BN:83:GLU:OE1	43:BN:83:GLU:HA	1.99	0.60
45:BP:88:GLY:N	45:BP:98:TYR:HA	2.04	0.60
48:BS:40:SER:O	48:BS:43:LEU:HB2	2.02	0.60
51:BV:45:SER:HB3	51:BV:51:LEU:CD1	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:58:LEU:C	51:BV:62:GLU:HB2	2.27	0.60
53:BX:53:LEU:O	53:BX:54:LYS:C	2.43	0.60
53:BX:53:LEU:O	53:BX:56:MET:N	2.34	0.60
54:BY:9:ARG:O	54:BY:10:ARG:C	2.43	0.60
55:CA:5:LEU:HG	55:CA:269:GLU:HG3	1.73	0.60
55:CA:13:HIS:CD2	55:CA:106:MET:C	2.79	0.60
55:CA:136:ARG:NH1	55:CA:139:TRP:CE2	2.69	0.60
55:CA:167:ALA:CB	57:CA:701:GCP:HN1	1.97	0.60
55:CA:342:ASN:OD1	55:CA:345:LEU:HB2	2.01	0.60
55:CA:374:ARG:C	55:CA:582:PRO:HA	2.23	0.60
1:AA:7:G:H2'	1:AA:8:A:H8	1.67	0.60
1:AA:64:A:H2	21:AU:66:LEU:HD13	1.67	0.60
1:AA:445:C:C3'	18:AR:3:ARG:HE	2.07	0.60
1:AA:450:G:H8	1:AA:450:G:O5'	1.85	0.60
1:AA:465:G:O2'	1:AA:466:A:H5'	2.02	0.60
1:AA:551:G:H5'	1:AA:552:G:OP2	2.00	0.60
1:AA:569:U:P	1:AA:945:A:N6	2.75	0.60
1:AA:612:G:H4'	1:AA:616:A:N1	2.16	0.60
1:AA:734:A:H2'	1:AA:735:A:O5'	2.01	0.60
1:AA:822:U:OP2	1:AA:945:A:H5'	2.01	0.60
1:AA:914:C:H2'	1:AA:915:C:H5'	1.83	0.60
1:AA:957:A:N6	1:AA:959:A:C4	2.70	0.60
1:AA:1024:G:H3'	1:AA:1025:G:H5''	1.83	0.60
1:AA:1038:C:H4'	1:AA:1039:G:OP1	2.01	0.60
1:AA:1086:A:H3'	1:AA:1087:G:H5'	1.83	0.60
1:AA:1176:G:H5''	1:AA:1177:A:C8	2.36	0.60
1:AA:1299:G:O4'	1:AA:1301:A:N3	2.34	0.60
1:AA:1313:U:P	21:AU:63:LYS:HD2	2.41	0.60
1:AA:1567:A:N6	4:AD:84:TYR:CD2	2.70	0.60
1:AA:1650:G:O6	1:AA:2008:C:N4	2.34	0.60
1:AA:1703:G:N2	1:AA:1704:G:N3	2.50	0.60
1:AA:1825:A:C6	1:AA:1826:G:O6	2.54	0.60
1:AA:1992:G:N7	1:AA:1997:G:C2	2.70	0.60
1:AA:1996:C:H2'	1:AA:1997:G:H5'	1.84	0.60
1:AA:2022:U:O2'	1:AA:2034:U:C2	2.51	0.60
1:AA:2043:C:O2'	1:AA:2044:C:H5'	2.02	0.60
1:AA:2071:A:H2	1:AA:2441:C:N3	1.99	0.60
1:AA:2263:C:O2'	1:AA:2264:C:H5'	2.00	0.60
1:AA:2283:C:C4	1:AA:2389:G:N2	2.70	0.60
1:AA:2284:C:H3'	29:Ac:27:LYS:HZ2	1.66	0.60
1:AA:2358:G:N3	1:AA:2358:G:H2'	2.16	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2424:C:H2'	1:AA:2424:C:O2	2.01	0.60
1:AA:2512:C:H2'	1:AA:2513:G:H4'	1.82	0.60
1:AA:2525:G:N2	1:AA:2539:C:N3	2.49	0.60
1:AA:2567:G:H2'	1:AA:2568:C:C6	2.35	0.60
1:AA:2787:C:H1'	5:AE:61:ARG:CD	2.30	0.60
3:AC:87:GLU:CG	3:AC:94:VAL:HG21	2.24	0.60
3:AC:108:MET:SD	3:AC:131:LEU:CD2	2.87	0.60
4:AD:80:ALA:O	4:AD:81:ALA:HB2	2.01	0.60
4:AD:132:PRO:HB2	4:AD:134:ARG:CD	2.32	0.60
4:AD:268:ARG:O	4:AD:269:PHE:CD2	2.54	0.60
5:AE:27:LEU:HD12	5:AE:76:ARG:NH2	2.16	0.60
5:AE:113:PHE:CD1	5:AE:113:PHE:N	2.69	0.60
6:AF:6:VAL:HA	6:AF:20:LEU:HD22	1.78	0.60
6:AF:104:LYS:CG	6:AF:108:LYS:HZ1	2.03	0.60
6:AF:109:GLY:C	6:AF:111:ALA:N	2.57	0.60
6:AF:121:GLY:CA	6:AF:191:ARG:HE	2.10	0.60
11:AK:33:LEU:HD13	11:AK:34:LEU:N	2.15	0.60
11:AK:68:GLU:H	11:AK:70:LYS:CE	2.14	0.60
11:AK:74:ARG:CD	11:AK:82:LEU:HD13	2.31	0.60
11:AK:107:LEU:HD23	11:AK:108:PRO:N	2.16	0.60
12:AL:58:VAL:O	12:AL:59:LYS:HB3	2.01	0.60
13:AM:122:PRO:HB3	13:AM:134:ALA:O	2.00	0.60
15:AO:57:ARG:HB3	15:AO:57:ARG:CZ	2.31	0.60
16:AP:62:LYS:O	16:AP:65:VAL:HG22	2.01	0.60
17:AQ:33:LYS:HD3	17:AQ:47:GLY:CA	2.32	0.60
17:AQ:82:LEU:HD22	17:AQ:84:GLN:HB2	1.84	0.60
17:AQ:109:GLU:CB	17:AQ:114:LEU:HD21	2.32	0.60
18:AR:65:ILE:HD13	18:AR:65:ILE:H	1.64	0.60
19:AS:20:LEU:CB	19:AS:95:LEU:HD13	2.31	0.60
19:AS:68:LYS:HZ3	19:AS:95:LEU:CD1	2.15	0.60
20:AT:74:ALA:HB1	20:AT:105:VAL:CG2	2.28	0.60
22:AV:13:VAL:CG1	22:AV:70:SER:HB3	2.32	0.60
26:AZ:10:LYS:CE	26:AZ:31:LEU:HD21	2.30	0.60
27:Aa:22:ILE:HD13	27:Aa:30:GLU:OE2	2.01	0.60
29:Ac:19:ARG:CB	29:Ac:43:CYS:SG	2.90	0.60
29:Ac:20:ASN:CG	29:Ac:43:CYS:SG	2.84	0.60
33:Ag:7:UNK:C	33:Ag:147:UNK:CA	2.79	0.60
34:BA:44:G:C6	34:BA:45:U:C2	2.90	0.60
34:BA:62:U:OP1	34:BA:386:C:H5'	2.00	0.60
34:BA:130:A:H4'	34:BA:190:G:C4	2.37	0.60
34:BA:136:C:O2'	49:BT:63:GLY:HA2	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:302:G:O2'	34:BA:556:C:H5''	2.01	0.60
34:BA:409:G:H5''	37:BH:24:GLU:OE1	2.01	0.60
34:BA:538:G:N2	34:BA:539:A:H1'	2.16	0.60
34:BA:667:G:H2'	34:BA:668:G:C8	2.37	0.60
34:BA:719:C:O2	51:BV:50:ILE:HG13	2.02	0.60
34:BA:1044:A:C2'	34:BA:1045:C:H5'	2.31	0.60
34:BA:1068:G:N2	34:BA:1108:G:O4'	2.34	0.60
34:BA:1314:C:N4	34:BA:1324:A:C6	2.70	0.60
35:BF:115:LEU:HB2	35:BF:145:LEU:CG	2.31	0.60
37:BH:146:ILE:HD12	37:BH:146:ILE:H	1.65	0.60
39:BJ:52:ILE:HG21	39:BJ:87:ARG:NH1	2.17	0.60
39:BJ:72:VAL:O	39:BJ:73:ASN:C	2.44	0.60
39:BJ:89:MET:CE	51:BV:76:LEU:HD21	2.31	0.60
41:BL:122:ARG:N	41:BL:122:ARG:HD3	2.17	0.60
42:BM:53:VAL:HG11	42:BM:92:TYR:CZ	2.37	0.60
44:BO:45:GLY:O	44:BO:50:TYR:HB2	2.02	0.60
44:BO:112:THR:N	44:BO:113:PRO:CD	2.64	0.60
48:BS:6:GLU:CG	48:BS:7:GLU:H	1.94	0.60
51:BV:34:TYR:CD1	51:BV:35:ARG:N	2.69	0.60
53:BX:57:ARG:O	53:BX:58:LYS:C	2.44	0.60
55:CA:12:ALA:O	55:CA:13:HIS:HB3	2.01	0.60
55:CA:75:THR:HG22	55:CA:85:VAL:HG21	1.73	0.60
55:CA:209:ILE:HD12	55:CA:209:ILE:H	1.66	0.60
55:CA:303:ASP:O	55:CA:346:ARG:NH2	2.34	0.60
1:AA:187:G:P	27:Aa:13:ARG:HH22	2.24	0.60
1:AA:197:A:H3'	1:AA:198:C:H6	1.67	0.60
1:AA:351:G:O2'	1:AA:352:G:N7	2.35	0.60
1:AA:361:G:H2'	1:AA:362:U:C6	2.36	0.60
1:AA:674:G:C4'	6:AF:74:ARG:CZ	2.78	0.60
1:AA:861:A:N7	1:AA:917:A:H2	1.97	0.60
1:AA:876:C:C2	1:AA:902:C:O2	2.54	0.60
1:AA:878:A:H2'	1:AA:879:G:H5''	1.82	0.60
1:AA:944:G:H4'	1:AA:945:A:O5'	2.02	0.60
1:AA:969:U:O2'	1:AA:970:C:H5'	2.01	0.60
1:AA:1022:G:O2'	1:AA:1023:U:P	2.59	0.60
1:AA:1075:C:C1'	10:AJ:90:LYS:HD2	2.19	0.60
1:AA:1081:U:C4'	10:AJ:125:ARG:HD3	2.29	0.60
1:AA:1264:G:C3'	1:AA:1265:A:C5'	2.75	0.60
1:AA:1264:G:C6	1:AA:1265:A:C5	2.90	0.60
1:AA:1340:U:H5	21:AU:57:LEU:CG	2.14	0.60
1:AA:1767:C:C4	1:AA:1768:U:C5	2.89	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1937:A:N6	1:AA:1939:U:O4	2.25	0.60
1:AA:1939:U:C2'	1:AA:1940:U:OP1	2.49	0.60
1:AA:2085:C:H2'	1:AA:2086:U:O4'	2.01	0.60
1:AA:2278:A:N7	24:AX:14:ARG:HG3	2.15	0.60
1:AA:2371:G:N2	1:AA:2372:G:C5	2.69	0.60
1:AA:2378:A:N3	16:AP:20:ARG:NH1	2.50	0.60
1:AA:2436:G:C6	1:AA:2437:U:N3	2.70	0.60
1:AA:2537:U:N3	1:AA:2538:C:N4	2.50	0.60
1:AA:2618:G:C2	1:AA:2619:C:C5	2.89	0.60
1:AA:2790:A:H4'	1:AA:2791:C:H5''	1.84	0.60
2:AB:25:A:O2'	2:AB:26:A:H5'	2.01	0.60
3:AC:82:LYS:HB3	3:AC:149:ILE:HG21	1.83	0.60
3:AC:161:ILE:HG13	3:AC:161:ILE:O	2.01	0.60
4:AD:58:HIS:O	4:AD:59:LYS:CE	2.49	0.60
4:AD:132:PRO:HG2	4:AD:135:PHE:CD1	2.37	0.60
4:AD:145:VAL:O	4:AD:154:LYS:O	2.19	0.60
5:AE:66:HIS:ND1	5:AE:66:HIS:C	2.60	0.60
5:AE:159:HIS:O	5:AE:160:TYR:CD1	2.55	0.60
6:AF:11:VAL:HG23	6:AF:17:ARG:NH2	2.15	0.60
7:AG:64:THR:HG21	7:AG:92:VAL:HG11	1.83	0.60
7:AG:139:LEU:HD13	7:AG:142:PRO:CB	2.31	0.60
10:AJ:40:ALA:O	10:AJ:66:THR:CB	2.47	0.60
11:AK:54:VAL:C	11:AK:130:HIS:NE2	2.59	0.60
11:AK:140:VAL:OXT	11:AK:140:VAL:HG12	2.00	0.60
17:AQ:4:GLY:CA	17:AQ:8:LYS:HE3	2.32	0.60
17:AQ:30:VAL:C	17:AQ:32:TYR:OH	2.44	0.60
18:AR:70:ARG:HB2	18:AR:70:ARG:NH1	2.16	0.60
18:AR:91:ASP:CG	19:AS:10:LYS:HD3	2.27	0.60
18:AR:112:ARG:NH2	19:AS:49:THR:HG22	2.16	0.60
23:AW:11:GLU:HG3	23:AW:36:LYS:HZ2	1.66	0.60
23:AW:19:ARG:NH2	23:AW:84:GLU:O	2.33	0.60
23:AW:43:GLU:HA	23:AW:46:LYS:HD2	1.84	0.60
24:AX:76:GLY:C	24:AX:78:TYR:CE1	2.79	0.60
25:AY:59:LEU:HD11	25:AY:63:ARG:CD	2.31	0.60
26:AZ:13:ILE:CG2	26:AZ:14:GLY:H	1.99	0.60
29:Ac:19:ARG:HH12	29:Ac:43:CYS:CB	2.05	0.60
31:Ae:5:LYS:HE2	31:Ae:7:HIS:HA	1.83	0.60
34:BA:5:U:C4	37:BH:86:LYS:HD3	2.35	0.60
34:BA:12:U:C2	34:BA:13:U:O4	2.55	0.60
34:BA:67:C:H4'	34:BA:172:A:C1'	2.32	0.60
34:BA:191(D):U:H2'	34:BA:191(E):G:C8	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:221:C:H2'	34:BA:222:U:H6	1.66	0.60
34:BA:318:G:O2'	34:BA:1468:A:O2'	2.12	0.60
34:BA:323:U:C5	34:BA:324:G:H1'	2.37	0.60
34:BA:366:C:O2'	34:BA:367:U:P	2.60	0.60
34:BA:510:A:H8	34:BA:510:A:O5'	1.85	0.60
34:BA:619:U:N3	37:BH:135:LEU:HD21	2.16	0.60
34:BA:927:G:P	34:BA:1503:A:N6	2.74	0.60
34:BA:1010:G:N2	34:BA:1020:U:C1'	2.61	0.60
34:BA:1288:A:C4	34:BA:1289:A:N7	2.69	0.60
34:BA:1347:G:C8	42:BM:107:ARG:CB	2.82	0.60
34:BA:1395:C:H2'	34:BA:1396:A:H8	1.66	0.60
34:BA:1411:C:C2	34:BA:1412:C:C5	2.90	0.60
34:BA:1461:G:C2'	34:BA:1462:G:H5'	2.31	0.60
34:BA:1484:C:C4	34:BA:1485:U:C4	2.88	0.60
35:BF:35:GLU:O	35:BF:36:ARG:NE	2.34	0.60
35:BF:115:LEU:HD12	35:BF:118:LEU:CD1	2.28	0.60
36:BG:12:LEU:O	36:BG:17:ASP:OD2	2.19	0.60
36:BG:39:ILE:HG21	36:BG:57:ILE:HD13	1.84	0.60
36:BG:48:TYR:HD2	36:BG:48:TYR:O	1.85	0.60
36:BG:84:ILE:HG13	36:BG:101:LEU:CD2	2.31	0.60
36:BG:124:ILE:HD11	36:BG:130:VAL:HG13	1.83	0.60
37:BH:31:CYS:SG	37:BH:33:MET:CG	2.88	0.60
38:BI:74:GLY:O	38:BI:75:THR:HB	2.01	0.60
38:BI:78:HIS:ND1	41:BL:104:ARG:HD3	2.17	0.60
40:BK:31:MET:CG	40:BK:32:ARG:N	2.58	0.60
40:BK:107:ALA:HB3	40:BK:123:GLU:OE1	2.02	0.60
41:BL:1:MET:CG	41:BL:2:LEU:H	2.14	0.60
41:BL:54:ASP:C	41:BL:56:LYS:H	2.09	0.60
41:BL:95:VAL:HG11	41:BL:133:LEU:HD11	1.84	0.60
41:BL:104:ARG:HB3	41:BL:107:LEU:HG	1.83	0.60
41:BL:104:ARG:CB	41:BL:107:LEU:HG	2.32	0.60
42:BM:38:GLN:C	42:BM:40:LEU:H	2.09	0.60
43:BN:16:LEU:HB3	43:BN:70:ARG:CG	2.32	0.60
43:BN:69:ASN:O	43:BN:70:ARG:HD3	2.01	0.60
44:BO:19:ALA:N	44:BO:80:VAL:CG2	2.65	0.60
45:BP:33:ARG:HG2	45:BP:60:LEU:HD23	1.83	0.60
45:BP:86:ARG:HH22	45:BP:119:LYS:CG	2.14	0.60
45:BP:126:LYS:HD2	45:BP:128:ALA:HB3	1.84	0.60
46:BQ:84:ILE:CD1	46:BQ:86:CYS:HB3	2.31	0.60
49:BT:19:ILE:HD12	49:BT:38:TYR:N	2.16	0.60
49:BT:59:TRP:HA	49:BT:59:TRP:CE3	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:46:GLU:HB3	51:BV:85:LEU:CD1	2.24	0.60
52:BW:37:ARG:O	52:BW:70:LYS:HE2	2.02	0.60
52:BW:46:GLY:HA2	52:BW:62:ILE:O	2.01	0.60
55:CA:206:GLN:CB	55:CA:228:ARG:N	2.52	0.60
55:CA:408:GLU:CG	55:CA:436:ARG:HH12	1.98	0.60
55:CA:601:ASN:HA	55:CA:602:ARG:C	2.23	0.60
1:AA:143:C:H2'	1:AA:144:C:C6	2.37	0.60
1:AA:242:G:H8	31:Ae:4:MET:HG2	1.64	0.60
1:AA:290:G:H2'	1:AA:291:C:O5'	2.01	0.60
1:AA:411:G:N2	1:AA:415:A:H61	2.00	0.60
1:AA:444:C:O3'	18:AR:2:PRO:HG2	2.02	0.60
1:AA:534:U:H4'	18:AR:49:HIS:CE1	2.36	0.60
1:AA:566:U:OP1	1:AA:1253:A:N1	2.34	0.60
1:AA:751:A:H5'	20:AT:90:ARG:CZ	2.31	0.60
1:AA:936:C:H2'	1:AA:937:U:C6	2.37	0.60
1:AA:1046:A:C5	9:AI:6:ASN:HA	2.36	0.60
1:AA:1062:G:O2'	1:AA:1063:G:O5'	2.19	0.60
1:AA:1111:A:H8	1:AA:1111:A:O5'	1.85	0.60
1:AA:1122:G:C2	1:AA:1123:C:C5	2.90	0.60
1:AA:1301:A:O2'	1:AA:1302:A:C8	2.55	0.60
1:AA:1351:C:O2'	1:AA:1571:A:C1'	2.49	0.60
1:AA:1419:A:N6	1:AA:1421:G:C2	2.69	0.60
1:AA:1531:C:N3	1:AA:1532:C:N4	2.40	0.60
1:AA:1583:A:H5'	1:AA:1585:C:OP1	2.01	0.60
1:AA:1625:C:O2	1:AA:1626:G:O2'	2.15	0.60
1:AA:1631:A:N1	1:AA:1632:A:C2	2.70	0.60
1:AA:1675:C:C2'	1:AA:1676:A:H5'	2.32	0.60
1:AA:1995:U:H5'	1:AA:1996:C:H5'	1.82	0.60
1:AA:2043:C:O2'	1:AA:2044:C:C5'	2.50	0.60
1:AA:2228:G:C8	1:AA:2229:C:C5	2.90	0.60
1:AA:2445:G:H2'	1:AA:2446:G:N7	2.13	0.60
1:AA:2455:G:C6	1:AA:2456:C:N4	2.70	0.60
1:AA:2541:A:H2	1:AA:2765:A:N6	2.00	0.60
1:AA:2713:A:H8	1:AA:2713:A:O5'	1.84	0.60
1:AA:2746:U:C4	1:AA:2756:U:C4	2.88	0.60
1:AA:2792:G:N1	1:AA:2793:G:C6	2.70	0.60
1:AA:2824:C:N4	1:AA:2825:C:O2	2.35	0.60
3:AC:28:LEU:O	3:AC:32:LEU:HG	2.02	0.60
3:AC:163:PHE:N	3:AC:163:PHE:CD1	2.68	0.60
4:AD:7:LYS:NZ	4:AD:91:ARG:NE	2.50	0.60
4:AD:143:HIS:O	4:AD:144:ALA:HB3	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:258:LYS:HG2	4:AD:259:THR:N	2.17	0.60
5:AE:8:LYS:HZ2	5:AE:9:VAL:CG1	2.07	0.60
6:AF:69:HIS:ND1	6:AF:69:HIS:C	2.59	0.60
6:AF:192:LEU:HD11	6:AF:194:MET:CG	2.26	0.60
7:AG:138:GLN:HB2	7:AG:155:MET:CE	2.32	0.60
8:AH:162:ILE:C	8:AH:163:TYR:CD1	2.80	0.60
9:AI:59:ILE:C	9:AI:61:LEU:H	2.08	0.60
11:AK:24:GLY:O	11:AK:27:ALA:HB3	2.02	0.60
13:AM:81:GLN:CG	13:AM:86:LYS:HE3	2.30	0.60
14:AN:33:GLY:C	14:AN:34:LEU:HD23	2.26	0.60
14:AN:37:LEU:C	14:AN:39:PRO:HD3	2.27	0.60
15:AO:11:ASN:OD1	15:AO:12:ARG:HG3	2.01	0.60
15:AO:110:PRO:O	15:AO:111:LEU:HD23	2.01	0.60
18:AR:9:VAL:O	18:AR:12:ARG:HB2	2.02	0.60
18:AR:93:LYS:NZ	18:AR:93:LYS:CA	2.60	0.60
19:AS:41:GLY:H	19:AS:51:VAL:HA	1.67	0.60
20:AT:39:THR:OG1	28:Ab:28:PRO:CG	2.45	0.60
21:AU:63:LYS:HA	21:AU:63:LYS:CE	2.32	0.60
22:AV:84:ARG:HD2	22:AV:84:ARG:O	2.00	0.60
23:AW:73:GLN:O	23:AW:87:ASP:CB	2.48	0.60
26:AZ:6:VAL:HG12	26:AZ:55:ARG:C	2.27	0.60
28:Ab:13:LYS:HB3	28:Ab:16:ARG:HH21	1.66	0.60
34:BA:17:U:O2'	34:BA:18:C:H5'	2.01	0.60
34:BA:244:U:O2'	34:BA:245:C:P	2.60	0.60
34:BA:377:G:OP1	49:BT:5:ARG:HD3	2.00	0.60
34:BA:425:G:C2'	34:BA:426:G:H5'	2.32	0.60
34:BA:594:G:H3'	34:BA:595:G:O4'	2.01	0.60
34:BA:620:C:N3	37:BH:135:LEU:HD22	2.17	0.60
34:BA:777:A:C4	34:BA:778:G:C8	2.89	0.60
34:BA:801:U:H2'	34:BA:801:U:O2	2.00	0.60
34:BA:1025:U:H2'	34:BA:1026:G:N7	2.17	0.60
34:BA:1041:A:C6	34:BA:1042:G:N7	2.70	0.60
34:BA:1177:G:OP2	42:BM:93:ARG:NH2	2.35	0.60
34:BA:1224:G:C3'	52:BW:78:ARG:NH1	2.65	0.60
34:BA:1315:U:O4'	34:BA:1361:G:C5'	2.48	0.60
34:BA:1493:A:OP1	56:BA:1601:NMY:H5	2.01	0.60
35:BF:166:ASP:OD1	35:BF:205:ASP:OD2	2.20	0.60
35:BF:181:PHE:HE1	41:BL:70:GLN:HE22	1.48	0.60
35:BF:208:ILE:HA	35:BF:211:ILE:HD12	1.83	0.60
36:BG:142:MET:CB	36:BG:149:ALA:HB2	2.32	0.60
37:BH:65:ARG:HG3	37:BH:72:GLU:OE1	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:105:VAL:CG2	37:BH:121:VAL:HG22	2.29	0.60
37:BH:195:ALA:O	37:BH:196:LEU:C	2.44	0.60
38:BI:88:LYS:CB	38:BI:123:LEU:O	2.50	0.60
39:BJ:41:GLU:H	39:BJ:63:TYR:HD1	1.49	0.60
39:BJ:52:ILE:HG21	39:BJ:87:ARG:NH2	2.16	0.60
40:BK:6:ARG:HA	40:BK:6:ARG:NH1	2.16	0.60
40:BK:12:LEU:HD22	40:BK:24:THR:HG22	1.83	0.60
42:BM:26:VAL:HA	42:BM:61:ALA:O	2.01	0.60
44:BO:34:ASP:OD1	44:BO:37:GLY:N	2.31	0.60
44:BO:87:THR:CG2	44:BO:91:ARG:HH22	2.14	0.60
45:BP:7:ILE:HB	45:BP:8:ASN:ND2	2.16	0.60
45:BP:35:GLY:O	45:BP:82:VAL:CG1	2.50	0.60
45:BP:105:TYR:C	55:CA:329:ARG:CD	2.67	0.60
46:BQ:25:ILE:HG12	46:BQ:66:LEU:HD21	1.84	0.60
46:BQ:63:THR:HG23	46:BQ:63:THR:O	2.02	0.60
48:BS:43:LEU:HD11	48:BS:56:LEU:CD2	2.30	0.60
50:BU:31:LEU:C	50:BU:32:TYR:CD2	2.80	0.60
52:BW:5:LEU:HG	52:BW:6:LYS:H	1.66	0.60
55:CA:310:PHE:N	55:CA:385:PRO:CG	2.65	0.60
55:CA:400:TYR:HB3	55:CA:442:VAL:HG12	0.62	0.60
55:CA:488:LEU:CD2	55:CA:526:ILE:C	2.73	0.60
55:CA:566:GLU:HA	55:CA:569:LEU:HD12	1.84	0.60
1:AA:59:U:O5'	1:AA:59:U:H6	1.84	0.60
1:AA:199:A:N1	1:AA:2433:A:H2'	2.17	0.60
1:AA:273:G:H2'	1:AA:273(A):G:H8	1.66	0.60
1:AA:383:U:C2	1:AA:385:C:N4	2.70	0.60
1:AA:387:U:H3'	27:Aa:29:PRO:HB3	1.84	0.60
1:AA:410:G:O6	1:AA:418:G:C6	2.54	0.60
1:AA:452:G:N7	1:AA:453:C:C5	2.70	0.60
1:AA:594:U:H2'	1:AA:595:C:H6	1.61	0.60
1:AA:827:U:OP1	1:AA:2429:G:OP2	2.20	0.60
1:AA:909:A:H2'	1:AA:912:C:C5	2.37	0.60
1:AA:1079:C:OP1	10:AJ:137:GLU:HB3	2.01	0.60
1:AA:1239:G:H2'	1:AA:1240:U:O4'	2.01	0.60
1:AA:1314:C:P	1:AA:1332:G:H5'	2.41	0.60
1:AA:1336:A:H2'	1:AA:1337:G:H8	1.66	0.60
1:AA:1363:C:N3	1:AA:1369:G:C6	2.70	0.60
1:AA:1444(A):A:N1	1:AA:1461:G:O5'	2.35	0.60
1:AA:1471:A:C8	1:AA:1521:G:N2	2.70	0.60
1:AA:1579:A:H62	1:AA:1581:G:N2	1.98	0.60
1:AA:1647:G:H2'	1:AA:1647:G:N3	2.15	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1691:C:C2'	1:AA:1692:U:H5'	2.31	0.60
1:AA:1780:A:OP2	1:AA:1782:C:OP1	2.19	0.60
1:AA:1813:G:O2'	4:AD:46:GLN:CG	2.49	0.60
1:AA:1820:U:O4	4:AD:159:ALA:O	2.20	0.60
1:AA:1857:G:C8	1:AA:1858:G:N7	2.69	0.60
1:AA:2061:G:OP2	1:AA:2502:G:OP2	2.19	0.60
1:AA:2173:A:H2'	1:AA:2174:C:O4'	2.02	0.60
1:AA:2193:G:C2	1:AA:2194:G:C8	2.90	0.60
1:AA:2408:U:O2	1:AA:2409:G:C8	2.54	0.60
1:AA:2570:G:H2'	1:AA:2570:G:N3	2.16	0.60
1:AA:2631:G:N2	5:AE:61:ARG:NH2	2.50	0.60
1:AA:2651:C:O2	1:AA:2670:A:C4	2.53	0.60
1:AA:2777:G:H4'	1:AA:2778:A:C5'	2.31	0.60
1:AA:2791:C:H3'	1:AA:2791:C:OP2	2.02	0.60
1:AA:2876:G:H2'	1:AA:2877:G:C8	2.37	0.60
2:AB:37:C:N4	2:AB:44:G:N1	2.50	0.60
2:AB:44:G:O2'	2:AB:47:C:N4	2.33	0.60
3:AC:171:ILE:HG12	3:AC:172:HIS:H	1.67	0.60
4:AD:160:GLY:C	4:AD:196:VAL:HG21	2.27	0.60
4:AD:175:LEU:HD11	4:AD:177:LEU:HB3	1.83	0.60
4:AD:242:ARG:O	4:AD:244:ARG:N	2.34	0.60
4:AD:260:ARG:HH11	4:AD:260:ARG:CB	2.14	0.60
7:AG:6:ALA:CA	7:AG:9:ARG:NH2	2.63	0.60
10:AJ:35:MET:CG	10:AJ:36:GLU:H	2.15	0.60
10:AJ:40:ALA:HB1	10:AJ:66:THR:HG1	0.77	0.60
12:AL:63:VAL:CG2	12:AL:82:ASN:H	2.15	0.60
12:AL:68:GLU:CA	12:AL:104:ARG:CZ	2.80	0.60
13:AM:8:PRO:O	13:AM:9:ASN:C	2.44	0.60
13:AM:122:PRO:HD3	13:AM:137:LYS:CB	2.32	0.60
14:AN:6:ARG:O	14:AN:7:MET:HE2	2.01	0.60
14:AN:36:ALA:O	14:AN:100:GLY:HA2	2.01	0.60
15:AO:79:LEU:HD23	15:AO:80:PHE:H	1.59	0.60
15:AO:87:TYR:HE1	15:AO:118:GLU:OE2	1.85	0.60
16:AP:56:LEU:HB3	16:AP:59:LYS:NZ	2.17	0.60
16:AP:57:LYS:NZ	16:AP:65:VAL:HA	2.13	0.60
17:AQ:6:LEU:O	17:AQ:9:LEU:HB2	2.01	0.60
17:AQ:53:ARG:NH2	17:AQ:102:ILE:HG12	2.14	0.60
17:AQ:55:ASN:ND2	17:AQ:57:PHE:HZ	1.99	0.60
17:AQ:95:ARG:NH1	17:AQ:95:ARG:CB	2.64	0.60
18:AR:65:ILE:CD1	18:AR:65:ILE:N	2.64	0.60
18:AR:97:ASP:HB3	18:AR:101:ARG:NE	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:12:TYR:O	19:AS:13:ARG:HB2	2.00	0.60
21:AU:29:TRP:CE3	21:AU:76:ARG:HG3	2.36	0.60
22:AV:74:PRO:C	22:AV:76:CYS:N	2.54	0.60
27:Aa:6:HIS:HB2	27:Aa:56:VAL:HA	1.84	0.60
31:Ae:60:LEU:HD11	31:Ae:64:TYR:CB	2.32	0.60
34:BA:132:C:HO2'	34:BA:133:U:H6	1.48	0.60
34:BA:290:C:H2'	34:BA:291:C:H5'	1.83	0.60
34:BA:305:G:O2'	34:BA:306:G:P	2.60	0.60
34:BA:394:G:H2'	34:BA:395:C:C6	2.36	0.60
34:BA:438:G:H21	34:BA:495:A:H8	1.46	0.60
34:BA:572:A:C4'	34:BA:917:G:H5'	2.25	0.60
34:BA:620:C:C4	37:BH:135:LEU:HD22	2.36	0.60
34:BA:678:U:C2	34:BA:679:C:C5	2.90	0.60
34:BA:854:G:P	34:BA:871:U:O2	2.59	0.60
34:BA:866:C:H3'	34:BA:867:G:C8	2.37	0.60
34:BA:944:G:H8	34:BA:944:G:O5'	1.85	0.60
34:BA:969:A:OP1	34:BA:969:A:C4'	2.48	0.60
34:BA:1157:A:N3	34:BA:1157:A:H2'	2.17	0.60
34:BA:1162:C:N3	34:BA:1175:G:N2	2.49	0.60
34:BA:1225:A:OP2	46:BQ:102:ARG:O	2.20	0.60
34:BA:1371:G:OP2	42:BM:11:LYS:NZ	2.34	0.60
34:BA:1468:A:C8	34:BA:1469:G:C8	2.90	0.60
35:BF:53:ARG:HH12	35:BF:200:ILE:CD1	2.12	0.60
35:BF:58:ILE:HG22	35:BF:61:LEU:HD22	1.83	0.60
35:BF:162:ILE:O	35:BF:185:ILE:HD13	2.01	0.60
36:BG:42:LEU:HD12	36:BG:94:LEU:CD1	2.32	0.60
36:BG:149:ALA:HB3	36:BG:170:GLN:HE21	1.67	0.60
36:BG:173:VAL:O	36:BG:175:LEU:N	2.35	0.60
37:BH:79:PHE:O	37:BH:80:GLU:C	2.45	0.60
37:BH:128:VAL:HG21	37:BH:133:VAL:CB	2.32	0.60
37:BH:177:ASP:HB3	37:BH:182:LYS:O	2.02	0.60
38:BI:34:VAL:HG21	38:BI:62:ALA:CB	2.32	0.60
39:BJ:69:GLU:O	39:BJ:72:VAL:HG13	2.02	0.60
40:BK:93:PRO:O	40:BK:94:ARG:C	2.43	0.60
41:BL:8:ASP:O	41:BL:11:THR:OG1	2.19	0.60
41:BL:10:LEU:CD1	41:BL:85:ARG:HB2	2.32	0.60
45:BP:100:ILE:O	45:BP:101:VAL:HG13	2.01	0.60
46:BQ:11:ARG:O	46:BQ:45:VAL:CB	2.29	0.60
46:BQ:15:VAL:CG2	46:BQ:39:ILE:HD12	0.36	0.60
46:BQ:36:LYS:HZ2	46:BQ:59:TYR:HB3	1.64	0.60
46:BQ:52:GLU:HA	46:BQ:55:ARG:NE	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:96:LEU:HD12	46:BQ:97:PRO:HD2	1.84	0.60
48:BS:11:VAL:O	48:BS:12:ILE:C	2.45	0.60
48:BS:27:VAL:O	48:BS:28:GLN:C	2.45	0.60
51:BV:67:ALA:O	51:BV:70:ILE:N	2.34	0.60
52:BW:19:VAL:HG21	52:BW:44:MET:HG2	1.82	0.60
54:BY:14:TRP:CZ3	54:BY:15:ARG:NE	2.70	0.60
55:CA:67:ASP:N	55:CA:67:ASP:OD1	2.35	0.60
55:CA:179:MET:HB2	55:CA:182:ASP:HB3	1.82	0.60
55:CA:215:ASN:C	55:CA:217:TYR:H	2.10	0.60
1:AA:111:A:H4'	25:AY:60:ASN:OD1	2.01	0.60
1:AA:140:A:H1'	1:AA:1409:C:H5'	1.84	0.60
1:AA:188:G:OP2	27:Aa:13:ARG:CZ	2.49	0.60
1:AA:371:A:H62	1:AA:424:G:H4'	1.66	0.60
1:AA:374:A:C2	1:AA:375:C:H1'	2.36	0.60
1:AA:511:U:OP2	1:AA:512:G:N7	2.35	0.60
1:AA:625:G:O6	13:AM:100:LEU:HB3	2.02	0.60
1:AA:716:A:N7	1:AA:717:G:C8	2.69	0.60
1:AA:859:G:H3'	1:AA:859:G:C8	2.37	0.60
1:AA:919:G:H2'	1:AA:920:G:C8	2.29	0.60
1:AA:973:A:H4'	1:AA:974:G:OP1	2.02	0.60
1:AA:986:C:O5'	1:AA:986:C:H6	1.84	0.60
1:AA:1138:G:N2	1:AA:1139:G:N3	2.49	0.60
1:AA:1171:G:H1	1:AA:1179:C:N4	1.98	0.60
1:AA:1227:A:H3'	1:AA:1227:A:C8	2.37	0.60
1:AA:1227:A:C2'	1:AA:1228:G:H5''	2.32	0.60
1:AA:1510:A:H3'	1:AA:1511:A:C5	2.36	0.60
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.02	0.60
1:AA:1537:C:C6	1:AA:1537:C:C3'	2.84	0.60
1:AA:1667:G:O6	1:AA:1992:G:P	2.60	0.60
1:AA:1683:C:H2'	1:AA:1684:C:H6	1.65	0.60
1:AA:1771:C:C2	1:AA:1772:G:C8	2.90	0.60
1:AA:1783:A:H8	1:AA:1783:A:OP2	1.84	0.60
1:AA:1853:A:H1'	1:AA:2234:G:H5'	1.82	0.60
1:AA:1860:G:H5''	3:AC:206:GLY:CA	2.26	0.60
1:AA:1890:A:H3'	1:AA:1891:G:C8	2.35	0.60
1:AA:2112:G:H5''	1:AA:2113:U:OP2	2.01	0.60
1:AA:2396:G:O2'	1:AA:2397:G:H5'	2.02	0.60
1:AA:2403:C:O2'	1:AA:2404:C:H5'	2.02	0.60
1:AA:2446:G:O2'	1:AA:2448:A:C5'	2.50	0.60
1:AA:2636:U:O4'	5:AE:79:ARG:HD3	2.00	0.60
1:AA:2661:G:C4	1:AA:2662:A:N7	2.70	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:97:GLU:OE2	3:AC:119:VAL:HG12	2.02	0.60
3:AC:177:LYS:HB2	3:AC:180:PHE:CB	2.31	0.60
4:AD:85:ASP:O	4:AD:87:ASN:N	2.31	0.60
4:AD:143:HIS:NE2	4:AD:192:THR:CG2	2.65	0.60
4:AD:174:ILE:HD12	4:AD:184:LYS:HE3	1.84	0.60
4:AD:256:GLY:O	4:AD:257:LEU:HG	2.02	0.60
4:AD:258:LYS:HA	4:AD:261:LYS:HD2	1.83	0.60
4:AD:259:THR:HG21	4:AD:260:ARG:HH12	1.67	0.60
5:AE:51:PHE:C	5:AE:74:PRO:HB3	2.25	0.60
5:AE:105:THR:CB	5:AE:166:THR:CB	2.69	0.60
5:AE:111:ARG:HD3	5:AE:160:TYR:O	2.01	0.60
5:AE:133:LYS:CE	5:AE:137:HIS:HB3	2.32	0.60
5:AE:154:LYS:HD2	5:AE:155:LYS:O	2.01	0.60
6:AF:146:ALA:HB3	6:AF:148:LEU:HD23	1.83	0.60
7:AG:4:ASP:HB3	7:AG:104:GLU:OE2	2.02	0.60
7:AG:79:ASN:OD1	7:AG:82:LEU:HG	2.01	0.60
8:AH:7:LEU:H	8:AH:8:PRO:HD3	1.64	0.60
8:AH:76:VAL:O	8:AH:77:LYS:C	2.44	0.60
10:AJ:93:ARG:O	10:AJ:94:GLU:HG3	2.02	0.60
10:AJ:104:VAL:HG13	10:AJ:127:ILE:CD1	1.28	0.60
12:AL:21:CYS:HA	12:AL:40:VAL:O	2.02	0.60
12:AL:24:VAL:HA	12:AL:39:ILE:HG21	1.81	0.60
13:AM:114:ILE:HG21	13:AM:134:ALA:HB2	1.83	0.60
14:AN:104:PHE:O	14:AN:105:GLU:OE2	2.20	0.60
14:AN:111:GLU:OE1	14:AN:112:GLU:HG3	2.02	0.60
14:AN:116:GLU:O	14:AN:117:ALA:C	2.45	0.60
17:AQ:44:ASP:C	17:AQ:46:GLU:N	2.59	0.60
17:AQ:110:ILE:HG23	34:BA:1432:G:OP2	2.02	0.60
18:AR:53:ARG:NH1	18:AR:53:ARG:CB	2.62	0.60
19:AS:4:ILE:CG1	19:AS:13:ARG:HG2	2.32	0.60
19:AS:11:GLN:NE2	19:AS:24:LYS:NZ	2.37	0.60
20:AT:33:ARG:O	20:AT:37:ARG:HG2	2.01	0.60
21:AU:8:ILE:HD11	21:AU:42:ALA:CB	2.30	0.60
21:AU:35:THR:HG22	21:AU:37:THR:H	1.66	0.60
21:AU:50:LYS:NZ	21:AU:85:PRO:HD2	2.15	0.60
23:AW:18:LEU:HD22	23:AW:23:LYS:CD	2.31	0.60
28:Ab:21:SER:C	28:Ab:23:HIS:N	2.59	0.60
34:BA:95:G:C2'	34:BA:96:G:H5'	2.32	0.60
34:BA:129(A):G:N2	34:BA:191(A):G:C4	2.69	0.60
34:BA:155:C:O2'	34:BA:156:G:H5'	2.01	0.60
34:BA:190:G:O2'	34:BA:191(A):G:P	2.60	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:229:U:H2'	34:BA:230:G:C8	2.36	0.60
34:BA:562:C:C2'	45:BP:15:ARG:HB3	2.32	0.60
34:BA:570:G:N2	34:BA:873:A:N1	2.50	0.60
34:BA:766:A:N7	34:BA:814:A:C6	2.69	0.60
34:BA:790:A:N6	34:BA:791:G:N1	2.49	0.60
34:BA:791:G:OP2	34:BA:791:G:H3'	2.02	0.60
34:BA:796:C:C2	34:BA:797:C:C5	2.90	0.60
34:BA:892:A:O2'	34:BA:893:C:H5'	2.02	0.60
34:BA:985:C:O2	52:BW:55:LYS:HG3	2.02	0.60
34:BA:992:U:H5'	34:BA:993:G:C8	2.37	0.60
34:BA:1025:U:H2'	34:BA:1026:G:C8	2.37	0.60
34:BA:1054:C:H3'	34:BA:1054:C:C6	2.36	0.60
34:BA:1125:U:H5'	43:BN:38:ILE:CG2	2.31	0.60
34:BA:1127:G:H21	34:BA:1147:C:H42	1.50	0.60
34:BA:1202:G:H1'	47:BR:29:ARG:CD	2.31	0.60
34:BA:1227:A:C5'	52:BW:81:ARG:NE	2.62	0.60
34:BA:1507:A:C2'	34:BA:1508:G:H5'	2.32	0.60
35:BF:91:PRO:HG3	35:BF:155:LEU:H	1.66	0.60
35:BF:113:HIS:HA	35:BF:116:GLU:OE1	2.02	0.60
35:BF:142:LEU:O	35:BF:142:LEU:HD23	2.01	0.60
36:BG:10:PHE:C	36:BG:11:ARG:HE	2.09	0.60
36:BG:11:ARG:O	36:BG:14:ILE:HB	2.02	0.60
36:BG:43:LEU:CD1	36:BG:55:VAL:HG11	2.32	0.60
37:BH:35:ARG:O	37:BH:37:PRO:CD	2.49	0.60
37:BH:80:GLU:O	37:BH:83:SER:N	2.34	0.60
37:BH:118:ARG:HG3	37:BH:136:PRO:HB2	1.84	0.60
37:BH:139:ARG:HG2	37:BH:140:VAL:H	1.66	0.60
41:BL:14:ARG:O	41:BL:17:THR:CB	2.48	0.60
41:BL:29:SER:HB2	41:BL:32:LYS:HZ3	1.66	0.60
41:BL:38:ILE:CA	41:BL:41:ARG:HB2	2.32	0.60
41:BL:40:ALA:HA	41:BL:43:GLY:O	2.01	0.60
43:BN:75:ILE:HG22	43:BN:76:ASN:N	2.16	0.60
44:BO:18:ARG:NH2	44:BO:36:ASP:O	2.35	0.60
44:BO:54:ARG:O	44:BO:56:GLY:N	2.35	0.60
46:BQ:36:LYS:HG2	46:BQ:56:LEU:CD2	2.24	0.60
50:BU:3:LYS:O	50:BU:5:VAL:HG23	2.01	0.60
50:BU:22:LEU:HD12	50:BU:40:LYS:O	2.02	0.60
50:BU:59:ILE:CD1	50:BU:60:ILE:N	2.65	0.60
53:BX:78:ALA:O	53:BX:79:ARG:C	2.45	0.60
55:CA:55:THR:O	55:CA:56:ILE:HD13	1.98	0.60
55:CA:310:PHE:N	55:CA:383:SER:OG	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:56:A:H2'	1:AA:57:C:C6	2.36	0.60
1:AA:64:A:C2'	1:AA:65:C:C5'	2.79	0.60
1:AA:85:G:H1'	1:AA:103:A:C2	2.37	0.60
1:AA:565:C:O2	1:AA:565:C:C2'	2.50	0.60
1:AA:709:U:H2'	1:AA:710:G:H8	1.65	0.60
1:AA:903:C:H2'	1:AA:904:C:C5	2.37	0.60
1:AA:957:A:C5	1:AA:959:A:C8	2.89	0.60
1:AA:961:C:C4	1:AA:2031:A:N3	2.69	0.60
1:AA:972:G:OP1	1:AA:974(A):C:C5'	2.47	0.60
1:AA:1060:U:OP1	10:AJ:52:ILE:CD1	2.50	0.60
1:AA:1188:U:O2	1:AA:1189:A:O4'	2.19	0.60
1:AA:1242:A:OP1	1:AA:1242:A:C8	2.55	0.60
1:AA:1258:C:O2'	1:AA:1259:G:H5'	2.01	0.60
1:AA:1365:A:C5	1:AA:1366:A:N7	2.70	0.60
1:AA:1472:A:N7	1:AA:1474:C:C4	2.70	0.60
1:AA:1488:G:O6	1:AA:1489:U:C2	2.55	0.60
1:AA:1754:C:H5	17:AQ:98:LYS:HD3	1.66	0.60
1:AA:1764:G:N2	1:AA:1989:G:H1'	2.17	0.60
1:AA:1830:C:N3	1:AA:1831:G:N7	2.50	0.60
1:AA:1955:U:O3'	1:AA:1956:U:H5	1.85	0.60
1:AA:1999:C:H5''	1:AA:2723:C:O2'	2.02	0.60
1:AA:2115:G:C2'	1:AA:2117:A:H62	2.14	0.60
1:AA:2132:U:C3'	1:AA:2133:G:H5'	2.27	0.60
1:AA:2135:A:C5'	1:AA:2136:C:H5	2.15	0.60
1:AA:2307:G:H8	1:AA:2307:G:OP2	1.84	0.60
1:AA:2472:G:OP1	1:AA:2473:U:H5''	2.02	0.60
1:AA:2742:C:C5'	32:Af:35:ARG:NH1	2.65	0.60
1:AA:2773:C:H2'	1:AA:2774:C:H6	1.67	0.60
2:AB:31:C:N3	2:AB:32:C:C5	2.70	0.60
4:AD:28:GLU:N	4:AD:29:PRO:HD2	2.17	0.60
4:AD:46:GLN:O	4:AD:48:ARG:N	2.34	0.60
4:AD:229:VAL:HG13	4:AD:230:ASP:OD1	2.02	0.60
5:AE:15:PHE:O	5:AE:16:ARG:C	2.44	0.60
5:AE:118:LYS:O	5:AE:120:TRP:N	2.34	0.60
5:AE:187:ALA:O	5:AE:188:VAL:C	2.44	0.60
6:AF:36:VAL:CG1	6:AF:37:VAL:N	2.64	0.60
7:AG:33:ARG:NH1	7:AG:34:LEU:N	2.50	0.60
8:AH:103:LEU:HB3	8:AH:105:LEU:HD11	1.82	0.60
10:AJ:62:ASP:H	10:AJ:63:ARG:HA	1.67	0.60
11:AK:110:GLY:O	11:AK:114:ARG:CB	2.44	0.60
11:AK:133:GLN:N	11:AK:133:GLN:CD	2.60	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:11:ALA:O	12:AL:97:ARG:NH1	2.35	0.60
12:AL:82:ASN:OD1	12:AL:82:ASN:N	2.34	0.60
13:AM:122:PRO:HB3	13:AM:138:LEU:N	2.16	0.60
16:AP:57:LYS:HZ2	16:AP:65:VAL:N	1.99	0.60
17:AQ:95:ARG:HB3	17:AQ:96:ARG:HD2	1.84	0.60
19:AS:36:PRO:CA	19:AS:60:GLU:O	2.43	0.60
19:AS:89:GLN:HG2	19:AS:91:TYR:CD2	2.37	0.60
21:AU:84:ALA:H	21:AU:85:PRO:HD2	1.65	0.60
21:AU:89:ILE:HG23	21:AU:92:LEU:HD22	1.83	0.60
21:AU:91:ALA:O	21:AU:95:LEU:HG	2.02	0.60
22:AV:2:ARG:HD2	22:AV:3:VAL:HG23	1.84	0.60
23:AW:43:GLU:O	23:AW:44:PHE:C	2.43	0.60
23:AW:50:GLN:C	23:AW:52:SER:H	2.10	0.60
25:AY:16:LEU:O	25:AY:20:VAL:HG12	2.01	0.60
26:AZ:4:LEU:CB	26:AZ:37:LEU:HD23	2.19	0.60
26:AZ:16:PRO:HG2	26:AZ:19:GLN:CB	2.31	0.60
26:AZ:50:VAL:HG13	26:AZ:53:LEU:CG	2.32	0.60
26:AZ:52:HIS:C	26:AZ:54:VAL:N	2.58	0.60
26:AZ:55:ARG:HG3	26:AZ:55:ARG:HH11	1.67	0.60
30:Ad:11:LYS:HE3	30:Ad:15:THR:HG21	1.84	0.60
32:Af:7:VAL:CG1	32:Af:36:GLN:HE22	2.10	0.60
32:Af:11:CYS:CB	32:Af:32:HIS:NE2	2.65	0.60
34:BA:121:C:H5'	34:BA:122:G:OP1	2.02	0.60
34:BA:123:C:OP1	34:BA:311:C:O2'	2.20	0.60
34:BA:483:C:N4	34:BA:484:G:C2	2.70	0.60
34:BA:579:G:C5	34:BA:580:U:C5	2.90	0.60
34:BA:753:A:H5'	34:BA:754:C:C5	2.37	0.60
34:BA:761:G:H1'	50:BU:104:LYS:O	2.01	0.60
34:BA:796:C:H2'	34:BA:797:C:H6	1.66	0.60
34:BA:859:A:N6	34:BA:860:A:C2	2.70	0.60
34:BA:890:G:O2'	34:BA:891:U:P	2.60	0.60
34:BA:979:C:P	34:BA:981:U:O4	2.60	0.60
34:BA:1049:U:C4	47:BR:3:ARG:HB2	2.37	0.60
34:BA:1105:A:C2	34:BA:1106:G:N7	2.70	0.60
34:BA:1126:U:C2	34:BA:1127:G:C8	2.89	0.60
34:BA:1205:U:C4'	36:BG:195:VAL:HG13	2.26	0.60
34:BA:1300:G:C2	34:BA:1335:C:C2	2.90	0.60
34:BA:1400:C:C4'	34:BA:1401:G:OP2	2.49	0.60
35:BF:75:LYS:O	35:BF:77:ALA:N	2.34	0.60
35:BF:112:VAL:HG13	35:BF:149:LEU:HD21	1.84	0.60
35:BF:189:ASP:OD2	35:BF:205:ASP:OD1	2.20	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:47:LEU:HD12	36:BG:49:SER:HB3	1.82	0.60
37:BH:206:PHE:HD2	37:BH:207:TYR:CD1	2.20	0.60
39:BJ:4:TYR:HB3	39:BJ:91:VAL:O	2.01	0.60
39:BJ:77:ARG:O	39:BJ:81:ILE:HG13	2.02	0.60
40:BK:97:GLN:O	40:BK:98:SER:C	2.44	0.60
42:BM:43:ALA:O	42:BM:45:ALA:N	2.35	0.60
43:BN:39:PRO:O	43:BN:69:ASN:O	2.19	0.60
47:BR:26:ARG:CB	47:BR:43:CYS:CB	2.79	0.60
50:BU:38:ARG:HG3	50:BU:39:SER:N	2.16	0.60
52:BW:6:LYS:HB3	52:BW:41:VAL:HG12	1.82	0.60
54:BY:13:ILE:CG2	54:BY:14:TRP:N	2.65	0.60
55:CA:22:VAL:HG23	55:CA:23:ASP:N	2.16	0.60
55:CA:27:GLN:H	55:CA:28:GLN:C	2.09	0.60
55:CA:64:ILE:H	55:CA:65:LYS:CA	2.15	0.60
55:CA:67:ASP:HB3	55:CA:191:VAL:CB	2.31	0.60
55:CA:102:PHE:CD2	55:CA:134:GLY:C	2.80	0.60
55:CA:119:TYR:HB3	55:CA:120:GLY:C	2.27	0.60
55:CA:206:GLN:HB2	55:CA:228:ARG:HB2	1.84	0.60
1:AA:126:A:H2'	1:AA:127:A:C5'	2.32	0.59
1:AA:145:G:C6	1:AA:146:G:C6	2.90	0.59
1:AA:154:G:H8	1:AA:154:G:O5'	1.84	0.59
1:AA:191:A:C2	1:AA:192:C:C6	2.90	0.59
1:AA:281:G:H8	1:AA:427:U:O2	1.85	0.59
1:AA:316:C:OP2	1:AA:316:C:H6	1.84	0.59
1:AA:475:U:C2	1:AA:479:A:N6	2.69	0.59
1:AA:738:G:H2'	1:AA:739:G:H1'	1.84	0.59
1:AA:976:C:H4'	1:AA:1156:A:N7	2.17	0.59
1:AA:1059:G:O3'	10:AJ:74:ALA:N	2.35	0.59
1:AA:1081:U:C4	1:AA:1086:A:C2	2.89	0.59
1:AA:1155:A:OP2	1:AA:1155:A:H3'	2.02	0.59
1:AA:1240:U:O2	1:AA:1240:U:H2'	2.02	0.59
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.37	0.59
1:AA:1427:A:C8	1:AA:1427:A:OP1	2.55	0.59
1:AA:1449:A:N1	1:AA:1449(A):G:C4	2.70	0.59
1:AA:1516:U:H2'	1:AA:1517:G:C8	2.37	0.59
1:AA:1690:A:N6	1:AA:1697:G:N2	2.49	0.59
1:AA:1789:A:C3'	4:AD:213:ARG:HH12	2.15	0.59
1:AA:1795:C:H2'	1:AA:1796:U:O4'	2.02	0.59
1:AA:2058:A:C2	1:AA:2059:A:N7	2.70	0.59
1:AA:2093:G:H2'	1:AA:2094:G:C5'	2.32	0.59
1:AA:2100:G:H1'	1:AA:2190:G:N2	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2244:U:O2'	1:AA:2434:A:N7	2.26	0.59
1:AA:2284:C:P	29:Ac:9:LEU:HG	2.42	0.59
1:AA:2306:C:H5	1:AA:2311:A:N6	2.00	0.59
1:AA:2335:A:H2'	1:AA:2337:G:C8	2.37	0.59
1:AA:2496:C:N1	1:AA:2497:A:H2	2.00	0.59
1:AA:2539:C:H2'	1:AA:2540:C:H6	1.67	0.59
1:AA:2543:G:C5	1:AA:2544:G:C6	2.90	0.59
1:AA:2740:A:N6	1:AA:2764:A:H1'	2.17	0.59
1:AA:2742:C:H2'	1:AA:2742:C:O2	2.02	0.59
1:AA:2746:U:O4	1:AA:2756:U:H5	1.77	0.59
1:AA:2764:A:OP1	1:AA:2764:A:C4'	2.48	0.59
1:AA:2861:G:H2'	1:AA:2862:G:H8	1.67	0.59
3:AC:163:PHE:HD1	3:AC:163:PHE:N	2.00	0.59
3:AC:211:SER:HB2	3:AC:223:ARG:NH2	2.15	0.59
3:AC:212:VAL:O	3:AC:212:VAL:HG12	2.01	0.59
5:AE:49:LEU:CD2	5:AE:76:ARG:N	2.64	0.59
5:AE:81:ILE:CG2	5:AE:82:ARG:N	2.64	0.59
5:AE:91:VAL:CG2	5:AE:180:ASN:HD21	2.15	0.59
6:AF:34:TRP:CH2	13:AM:8:PRO:HD2	2.36	0.59
6:AF:155:LEU:HD22	6:AF:157:VAL:HG12	1.84	0.59
7:AG:91:ARG:C	7:AG:91:ARG:HD3	2.26	0.59
7:AG:119:GLY:HA3	7:AG:180:PHE:CE1	2.36	0.59
7:AG:130:ASN:HA	7:AG:161:THR:OG1	2.02	0.59
8:AH:23:ARG:CZ	8:AH:34:GLU:HB3	2.32	0.59
8:AH:149:ARG:O	8:AH:153:LYS:HB3	2.01	0.59
12:AL:8:LEU:CD2	12:AL:9:GLU:H	2.11	0.59
12:AL:97:ARG:CZ	12:AL:97:ARG:CB	2.78	0.59
14:AN:85:LYS:HZ2	24:AX:10:THR:CB	2.15	0.59
15:AO:51:LEU:HG	15:AO:66:VAL:HG11	1.82	0.59
17:AQ:28:VAL:HG13	17:AQ:92:GLY:C	2.26	0.59
18:AR:76:TYR:CD2	18:AR:80:ILE:CD1	2.78	0.59
18:AR:111:GLU:O	18:AR:114:LYS:HG2	2.01	0.59
19:AS:11:GLN:CD	19:AS:22:VAL:HB	2.27	0.59
19:AS:62:LEU:HD13	19:AS:98:GLU:CA	2.31	0.59
21:AU:90:GLU:O	21:AU:93:GLU:CG	2.50	0.59
24:AX:38:VAL:HG12	24:AX:45:PHE:CE2	2.36	0.59
25:AY:36:ILE:HG23	25:AY:41:GLN:HE22	1.67	0.59
29:Ac:10:LEU:HD12	29:Ac:28:ARG:NH2	2.17	0.59
29:Ac:30:THR:HB	29:Ac:31:PRO:HD2	1.84	0.59
32:Af:19:ARG:HD2	32:Af:24:TYR:CG	2.37	0.59
33:Ag:308:UNK:C	55:CA:142:ASP:OD1	2.49	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Ag:327:UNK:C	33:Ag:348:UNK:CB	2.76	0.59
34:BA:46:G:H1'	34:BA:396:G:H22	1.68	0.59
34:BA:109:A:O2'	34:BA:110:C:OP1	2.19	0.59
34:BA:246:A:H4'	34:BA:247:G:H4'	1.84	0.59
34:BA:355:C:N3	34:BA:356:A:N7	2.50	0.59
34:BA:357:G:OP1	34:BA:367:U:H3'	2.01	0.59
34:BA:369:C:OP2	34:BA:388:G:N1	2.35	0.59
34:BA:558:G:C4	34:BA:559:A:C2	2.90	0.59
34:BA:564:C:C5	50:BU:31:LEU:HD11	2.37	0.59
34:BA:685:G:H2'	34:BA:686:U:C6	2.37	0.59
34:BA:877:C:O2'	34:BA:878:G:H5'	2.02	0.59
34:BA:1053:G:H4'	34:BA:1054:C:O3'	2.02	0.59
34:BA:1358:U:OP1	47:BR:34:TYR:HA	2.02	0.59
34:BA:1374:A:H1'	40:BK:31:MET:HE1	1.84	0.59
36:BG:110:ASN:CB	36:BG:144:SER:OG	2.50	0.59
37:BH:168:ARG:H	37:BH:168:ARG:HD2	1.66	0.59
38:BI:41:VAL:HG21	38:BI:113:ALA:HB2	1.84	0.59
38:BI:73:ASN:ND2	38:BI:73:ASN:O	2.32	0.59
38:BI:77:PRO:O	38:BI:93:PRO:HG3	2.01	0.59
41:BL:114:THR:C	41:BL:116:LYS:H	2.09	0.59
44:BO:73:MET:SD	44:BO:78:GLN:HB3	2.42	0.59
46:BQ:20:THR:N	46:BQ:25:ILE:HG22	2.16	0.59
49:BT:60:LEU:CA	49:BT:64:ALA:HB3	2.28	0.59
50:BU:58:GLU:OE2	50:BU:74:LEU:HB3	2.01	0.59
52:BW:11:VAL:HB	52:BW:16:LEU:CA	2.32	0.59
55:CA:62:ALA:HB2	55:CA:187:TYR:CG	2.37	0.59
55:CA:267:LEU:CD2	55:CA:268:ALA:H	2.15	0.59
55:CA:373:MET:CE	55:CA:380:LEU:HD23	2.32	0.59
1:AA:187:G:OP1	27:Aa:13:ARG:NH2	2.35	0.59
1:AA:241:A:O4'	1:AA:241:A:OP1	2.20	0.59
1:AA:247:G:C2	1:AA:249:C:O2'	2.51	0.59
1:AA:293:U:H2'	1:AA:294:A:C8	2.36	0.59
1:AA:460:A:H2'	1:AA:461:C:C6	2.33	0.59
1:AA:636:G:N2	13:AM:75:ILE:CG2	2.61	0.59
1:AA:649:G:H5''	1:AA:650:C:OP2	2.02	0.59
1:AA:779:U:H3'	1:AA:780:G:C8	2.37	0.59
1:AA:818:G:OP2	1:AA:1187:G:O6	2.20	0.59
1:AA:831:G:N1	1:AA:832:G:C4	2.70	0.59
1:AA:894:C:C2'	1:AA:895:U:C5'	2.74	0.59
1:AA:961:C:O2'	1:AA:962:G:P	2.59	0.59
1:AA:974:G:C4	1:AA:1186:G:C6	2.90	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:996:A:C4'	18:AR:93:LYS:HG3	2.26	0.59
1:AA:1005:C:O2	11:AK:28:THR:CB	2.47	0.59
1:AA:1045:A:H4'	1:AA:1047:G:OP1	2.02	0.59
1:AA:1138:G:H2'	1:AA:1138:G:N3	2.16	0.59
1:AA:1243:G:C6	1:AA:1244:G:C5	2.89	0.59
1:AA:1246:A:N6	1:AA:1247:A:C6	2.70	0.59
1:AA:1309:G:N1	1:AA:1310:G:N7	2.50	0.59
1:AA:1334:G:C5'	21:AU:65:ARG:HH12	2.15	0.59
1:AA:1363:C:H1'	1:AA:1810:A:H1'	1.83	0.59
1:AA:1422:G:N3	1:AA:1423:G:C8	2.70	0.59
1:AA:1445:C:H2'	1:AA:1446:C:C6	2.38	0.59
1:AA:1499:C:H2'	1:AA:1499:C:O2	2.02	0.59
1:AA:1525:G:N2	1:AA:1526:G:H1'	2.17	0.59
1:AA:1528:A:N7	1:AA:1529:A:N1	2.50	0.59
1:AA:1688:U:O2'	1:AA:1689:A:OP2	2.20	0.59
1:AA:1935:G:O2'	1:AA:1937:A:C2	2.40	0.59
1:AA:2006:C:H5''	1:AA:2048:G:H5''	1.83	0.59
1:AA:2091:U:O4	1:AA:2092:U:C4	2.55	0.59
1:AA:2253:G:C5	1:AA:2254:C:C5	2.90	0.59
1:AA:2674:G:HO2'	1:AA:2675:A:H5'	1.64	0.59
1:AA:2743:C:C2	1:AA:2762:G:C2	2.90	0.59
1:AA:2793:G:N1	1:AA:2794:C:C4	2.69	0.59
3:AC:6:ARG:C	3:AC:8:ARG:N	2.57	0.59
4:AD:23:GLU:OE2	4:AD:24:ILE:O	2.20	0.59
4:AD:52:ARG:HD3	4:AD:52:ARG:N	2.17	0.59
4:AD:60:ARG:CD	4:AD:62:TYR:HE2	2.09	0.59
4:AD:96:HIS:CD2	4:AD:102:LYS:HE2	2.36	0.59
5:AE:131:ALA:CB	5:AE:134:ILE:HG13	2.32	0.59
7:AG:16:ARG:HH11	7:AG:16:ARG:CG	2.08	0.59
7:AG:114:ILE:HD12	7:AG:115:ARG:N	2.13	0.59
7:AG:135:LEU:C	7:AG:135:LEU:HD13	2.26	0.59
7:AG:149:VAL:HG13	7:AG:150:ASP:H	1.66	0.59
8:AH:59:ARG:O	8:AH:62:LYS:HG2	2.02	0.59
8:AH:85:LYS:NZ	8:AH:85:LYS:HB2	2.17	0.59
8:AH:143:GLN:O	8:AH:146:ALA:HB3	2.01	0.59
10:AJ:27:LEU:HD11	10:AJ:57:ILE:CG2	2.33	0.59
11:AK:4:TYR:CE1	18:AR:101:ARG:NH2	2.70	0.59
12:AL:109:LYS:O	12:AL:111:PHE:N	2.35	0.59
15:AO:53:HIS:O	15:AO:56:LYS:HE2	2.02	0.59
15:AO:55:ALA:CB	15:AO:79:LEU:HD11	2.29	0.59
16:AP:71:ARG:N	16:AP:104:GLY:HA2	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:9:VAL:HG12	18:AR:13:LYS:HD3	1.83	0.59
18:AR:97:ASP:C	18:AR:101:ARG:NE	2.56	0.59
20:AT:82:LEU:HD13	20:AT:83:LYS:N	2.17	0.59
21:AU:93:GLU:O	21:AU:94:GLY:C	2.46	0.59
22:AV:42:VAL:HG22	22:AV:61:ILE:HG21	1.83	0.59
26:AZ:26:LEU:CD2	26:AZ:28:LEU:HD11	2.25	0.59
27:Aa:59:PHE:C	27:Aa:61:ARG:N	2.56	0.59
28:Ab:48:GLU:HA	28:Ab:58:LEU:HG	1.84	0.59
29:Ac:17:LYS:NZ	29:Ac:50:ARG:CB	2.65	0.59
34:BA:20:U:C4	34:BA:21:G:C6	2.90	0.59
34:BA:130:A:OP2	50:BU:63:ARG:NH2	2.35	0.59
34:BA:135:C:O5'	34:BA:135:C:H6	1.86	0.59
34:BA:285:G:O2'	34:BA:286:G:H5'	2.02	0.59
34:BA:296:U:O2	34:BA:302:G:C2	2.55	0.59
34:BA:719:C:H2'	34:BA:720:C:O4'	2.02	0.59
34:BA:761:G:H5'	50:BU:102:GLY:C	2.27	0.59
34:BA:820:U:O2'	34:BA:821:G:OP2	2.14	0.59
34:BA:858:G:C2	34:BA:869:G:H3'	2.36	0.59
34:BA:1329:A:O2'	34:BA:1330:U:H5'	2.01	0.59
34:BA:1343:G:H2'	34:BA:1344:C:C6	2.37	0.59
34:BA:1485:U:H2'	34:BA:1486:G:C8	2.37	0.59
35:BF:56:ARG:O	35:BF:59:GLU:HG3	2.02	0.59
35:BF:163:PHE:CZ	35:BF:186:ALA:HA	2.36	0.59
35:BF:175:ARG:HD2	35:BF:179:LYS:NZ	2.16	0.59
37:BH:36:ARG:HB3	37:BH:38:TYR:CE2	2.35	0.59
37:BH:102:ASP:HB2	37:BH:136:PRO:O	2.01	0.59
37:BH:194:LEU:CB	37:BH:196:LEU:HD11	2.31	0.59
39:BJ:7:ASN:C	39:BJ:8:ILE:CG1	2.74	0.59
40:BK:89:MET:HE2	40:BK:156:TRP:CD1	2.37	0.59
41:BL:12:ARG:HH11	41:BL:27:PRO:CD	2.05	0.59
43:BN:84:GLN:C	43:BN:85:LEU:HD12	2.26	0.59
44:BO:15:ALA:O	44:BO:78:GLN:NE2	2.35	0.59
44:BO:33:THR:HG22	44:BO:39:PRO:HB3	1.82	0.59
44:BO:48:ILE:HD11	44:BO:64:ALA:CA	2.32	0.59
44:BO:75:TYR:O	44:BO:77:MET:N	2.30	0.59
45:BP:110:VAL:O	45:BP:113:ARG:HB2	2.02	0.59
49:BT:28:ARG:NH1	49:BT:29:ASP:OD2	2.35	0.59
50:BU:95:TYR:O	50:BU:97:SER:N	2.35	0.59
50:BU:100:LYS:HB3	50:BU:100:LYS:HZ2	1.67	0.59
52:BW:19:VAL:HG22	52:BW:43:GLU:CD	2.28	0.59
53:BX:49:ALA:CB	53:BX:99:LEU:HG	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:200:ASP:CB	55:CA:228:ARG:CD	2.80	0.59
1:AA:139:G:C2'	1:AA:140:A:O5'	2.49	0.59
1:AA:204:A:O2'	1:AA:205:G:P	2.60	0.59
1:AA:270(Z):U:C4	1:AA:271(C):U:H1'	2.36	0.59
1:AA:283:A:C2'	1:AA:284:U:H5'	2.32	0.59
1:AA:294:A:H2'	1:AA:295:G:H5'	1.84	0.59
1:AA:459:U:H3'	30:Ad:40:TRP:HH2	1.61	0.59
1:AA:501:A:C5	1:AA:502:A:N1	2.70	0.59
1:AA:531:C:C2	1:AA:532:A:H1'	2.38	0.59
1:AA:601:C:O2'	1:AA:604:G:H5''	2.02	0.59
1:AA:656:G:H2'	1:AA:657:U:H6	1.64	0.59
1:AA:689:A:H2'	1:AA:690:G:O4'	2.02	0.59
1:AA:714:U:OP2	1:AA:714:U:C6	2.56	0.59
1:AA:729:G:C5'	4:AD:211:ARG:HH12	2.14	0.59
1:AA:733:G:N7	1:AA:761:A:C6	2.70	0.59
1:AA:783:A:O2'	1:AA:784:A:P	2.60	0.59
1:AA:811:U:O2'	1:AA:1251:C:C1'	2.41	0.59
1:AA:909:A:H2'	1:AA:912:C:H5	1.67	0.59
1:AA:997:G:N3	1:AA:998:C:C5	2.71	0.59
1:AA:1184:G:O2'	1:AA:1185:C:H5'	2.02	0.59
1:AA:1249:U:H3	13:AM:21:ARG:NH2	2.00	0.59
1:AA:1448:G:H2'	1:AA:1449:A:C8	2.37	0.59
1:AA:1675:C:C5	5:AE:129:HIS:CD2	2.89	0.59
1:AA:1687:G:C2	1:AA:1688:U:C5	2.89	0.59
1:AA:1795:C:O2'	1:AA:1796:U:H5'	2.01	0.59
1:AA:1796:U:C2	1:AA:1797:C:C5	2.89	0.59
1:AA:1801:G:N7	1:AA:2207:C:O2'	2.31	0.59
1:AA:1823:G:C2	1:AA:1824:G:C8	2.89	0.59
1:AA:2029:G:H1	1:AA:2033:A:P	2.25	0.59
1:AA:2075:U:H5	1:AA:2435:A:N1	2.01	0.59
1:AA:2144:U:OP2	1:AA:2144:U:H6	1.85	0.59
1:AA:2194:G:H2'	1:AA:2195:C:H5	1.68	0.59
1:AA:2335:A:HO2'	1:AA:2336:A:H8	1.51	0.59
1:AA:2463:C:H2'	1:AA:2464:C:H5'	1.84	0.59
1:AA:2597:G:H5'	4:AD:242:ARG:NE	2.16	0.59
1:AA:2620:C:H4'	5:AE:156:MET:HB2	1.80	0.59
1:AA:2629:A:H2	1:AA:2801:A:N3	2.00	0.59
1:AA:2637:U:O2'	1:AA:2638:G:O4'	2.19	0.59
1:AA:2672:G:C2'	1:AA:2673:G:H5'	2.31	0.59
1:AA:2866:U:H5''	1:AA:2867:G:OP1	2.01	0.59
2:AB:116:G:N3	2:AB:117:G:H1'	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:30:LYS:HZ2	3:AC:182:PRO:HD3	1.67	0.59
3:AC:59:ARG:HD2	3:AC:162:GLU:CD	2.27	0.59
4:AD:152:GLY:O	4:AD:154:LYS:N	2.36	0.59
4:AD:186:HIS:O	4:AD:189:CYS:SG	2.59	0.59
4:AD:226:MET:HA	4:AD:226:MET:HE2	1.84	0.59
5:AE:8:LYS:CD	5:AE:9:VAL:N	2.65	0.59
5:AE:119:ARG:HH12	5:AE:155:LYS:HD2	1.67	0.59
7:AG:7:LEU:HD22	7:AG:11:TYR:CE1	2.29	0.59
7:AG:12:TYR:CD1	7:AG:12:TYR:C	2.80	0.59
10:AJ:99:ILE:O	10:AJ:103:GLN:OE1	2.20	0.59
12:AL:9:GLU:HB2	12:AL:81:ASP:O	2.03	0.59
12:AL:9:GLU:O	12:AL:82:ASN:HA	2.02	0.59
13:AM:46:LYS:HA	13:AM:49:ARG:NH2	2.17	0.59
17:AQ:2:ASN:O	17:AQ:5:ALA:HB3	2.02	0.59
21:AU:3:THR:O	21:AU:4:ALA:CB	2.50	0.59
22:AV:1:MET:HG2	22:AV:33:LYS:HG3	1.84	0.59
23:AW:18:LEU:HD22	23:AW:23:LYS:HD3	1.84	0.59
23:AW:127:LYS:HD3	23:AW:165:VAL:CG2	2.31	0.59
24:AX:53:MET:SD	24:AX:59:LEU:HD23	2.43	0.59
25:AY:20:VAL:HG21	25:AY:56:LEU:CD1	2.33	0.59
26:AZ:17:LYS:HA	26:AZ:20:LYS:HE2	1.85	0.59
29:Ac:22:ALA:O	29:Ac:23:THR:HG23	2.02	0.59
31:Ae:7:HIS:C	31:Ae:11:LYS:HE3	2.26	0.59
31:Ae:53:PRO:HA	31:Ae:56:GLU:CG	2.31	0.59
34:BA:89:U:H2'	34:BA:90:C:O4'	2.03	0.59
34:BA:390:C:C4	34:BA:391:G:N7	2.70	0.59
34:BA:397:A:C2'	34:BA:399:G:OP2	2.49	0.59
34:BA:668:G:O2'	34:BA:669:U:H5'	2.03	0.59
34:BA:687:A:O2'	34:BA:688:G:O5'	2.20	0.59
34:BA:696:A:H2'	34:BA:697:U:C5'	2.31	0.59
34:BA:921:U:C2	34:BA:922:G:C8	2.90	0.59
34:BA:1011:G:C2'	34:BA:1012:U:H5'	2.32	0.59
34:BA:1066:C:C5	34:BA:1067:A:N7	2.70	0.59
34:BA:1117:G:N2	34:BA:1184:G:C8	2.70	0.59
34:BA:1232:U:OP1	42:BM:125:TYR:O	2.19	0.59
34:BA:1329:A:O2'	46:BQ:70:LEU:HD21	1.99	0.59
34:BA:1451:A:H5''	34:BA:1452:C:H5	1.67	0.59
34:BA:1455:G:O3'	53:BX:31:SER:CB	2.49	0.59
34:BA:1483:A:H2'	34:BA:1484:C:C5'	2.33	0.59
35:BF:115:LEU:HD12	35:BF:115:LEU:O	2.02	0.59
36:BG:22:TRP:HB2	36:BG:59:ARG:HB3	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:30:LYS:NZ	37:BH:35:ARG:HD2	2.17	0.59
37:BH:100:ARG:HH22	37:BH:137:SER:CA	2.13	0.59
37:BH:128:VAL:HG12	37:BH:129:ASN:N	2.17	0.59
37:BH:179:GLU:O	37:BH:181:MET:N	2.33	0.59
38:BI:34:VAL:CG2	38:BI:62:ALA:HB1	2.32	0.59
38:BI:118:ILE:C	38:BI:119:LEU:CD2	2.74	0.59
39:BJ:3:ARG:HG3	39:BJ:65:VAL:C	2.28	0.59
40:BK:5:ARG:HD2	40:BK:7:ALA:N	2.09	0.59
40:BK:31:MET:CG	40:BK:32:ARG:H	2.14	0.59
43:BN:60:ARG:HH11	43:BN:60:ARG:CA	2.15	0.59
44:BO:111:ASP:OD2	44:BO:113:PRO:CD	2.46	0.59
47:BR:39:LEU:HD12	47:BR:44:LEU:HD12	1.84	0.59
48:BS:52:SER:O	48:BS:53:HIS:C	2.46	0.59
53:BX:76:ALA:O	53:BX:79:ARG:HG2	2.02	0.59
55:CA:5:LEU:CD1	55:CA:268:ALA:CB	2.70	0.59
55:CA:119:TYR:CB	55:CA:120:GLY:HA3	2.30	0.59
55:CA:137:PRO:HD2	55:CA:138:ASP:H	1.67	0.59
55:CA:405:LEU:CG	55:CA:464:LEU:CA	2.65	0.59
55:CA:576:GLU:HG3	55:CA:589:LYS:HD2	1.84	0.59
1:AA:32:C:OP1	1:AA:1238:G:H5'	2.02	0.59
1:AA:83:G:N1	1:AA:102:G:O2'	2.35	0.59
1:AA:219:G:O6	1:AA:428:A:OP1	2.19	0.59
1:AA:422:A:C2	1:AA:423:A:C4	2.91	0.59
1:AA:513:A:C2	1:AA:514:A:C8	2.90	0.59
1:AA:601:C:O2	1:AA:601:C:H2'	2.01	0.59
1:AA:686:G:C4'	1:AA:687:C:OP2	2.50	0.59
1:AA:736:C:O2'	1:AA:737:C:H5'	2.03	0.59
1:AA:816:C:C2'	1:AA:817:C:H5'	2.33	0.59
1:AA:816:C:O2'	1:AA:817:C:H5'	2.02	0.59
1:AA:947:G:O5'	1:AA:947:G:C8	2.54	0.59
1:AA:979:G:C3'	1:AA:980:A:C5'	2.78	0.59
1:AA:980:A:N6	1:AA:1135:C:H5''	2.17	0.59
1:AA:1064:C:C4	1:AA:1065:U:C4	2.90	0.59
1:AA:1155:A:O2'	1:AA:1156:A:H5''	2.03	0.59
1:AA:1205:U:O2'	1:AA:1206:G:O6	2.20	0.59
1:AA:1223:C:C6	1:AA:1227:A:N1	2.70	0.59
1:AA:1264:G:N7	1:AA:1265:A:N9	2.50	0.59
1:AA:1341:U:C2'	1:AA:1342:A:OP1	2.50	0.59
1:AA:1471:A:C8	1:AA:1521:G:C2	2.91	0.59
1:AA:1498:C:C1'	1:AA:1576:U:H4'	2.33	0.59
1:AA:1534:G:H21	1:AA:1537:C:N4	2.00	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1603:A:OP1	1:AA:1604:C:OP2	2.19	0.59
1:AA:1790:C:O2'	4:AD:209:ALA:CB	2.49	0.59
1:AA:1790:C:C2'	1:AA:1790:C:O2	2.50	0.59
1:AA:1830:C:C2	1:AA:1831:G:C8	2.90	0.59
1:AA:2484:G:O2'	14:AN:46:GLN:HG3	2.03	0.59
1:AA:2493:U:O4	1:AA:2494:G:C8	2.56	0.59
1:AA:2532:G:C2'	1:AA:2664:G:HO2'	2.10	0.59
1:AA:2629:A:C6	1:AA:2896:C:P	2.88	0.59
1:AA:2818:G:H4'	1:AA:2837:G:H4'	1.85	0.59
2:AB:74:U:O2	23:AW:34:ASN:ND2	2.35	0.59
2:AB:99:A:O2'	2:AB:100:G:H5'	2.03	0.59
3:AC:77:ILE:HG21	3:AC:100:ILE:HD11	1.83	0.59
3:AC:77:ILE:CG2	3:AC:123:VAL:HG22	2.29	0.59
4:AD:228:PRO:HD3	4:AD:235:GLY:HA3	1.83	0.59
6:AF:156:LEU:CG	6:AF:173:VAL:HG23	2.32	0.59
7:AG:57:ALA:CA	7:AG:68:PRO:HD2	2.29	0.59
7:AG:75:LYS:HD3	7:AG:85:GLY:CA	2.32	0.59
11:AK:57:ALA:CB	11:AK:124:ALA:HA	2.29	0.59
11:AK:67:LEU:HA	11:AK:70:LYS:HZ1	1.66	0.59
12:AL:47:ILE:O	12:AL:48:PRO:C	2.45	0.59
12:AL:59:LYS:N	12:AL:59:LYS:CE	2.65	0.59
12:AL:122:LEU:OXT	17:AQ:74:ARG:NH2	2.35	0.59
13:AM:130:PHE:HD1	13:AM:130:PHE:N	2.00	0.59
15:AO:33:ARG:HH21	28:Ab:56:LYS:HE2	1.67	0.59
15:AO:52:ILE:HD13	15:AO:56:LYS:HG2	1.84	0.59
15:AO:61:HIS:C	15:AO:64:ARG:HH11	2.10	0.59
16:AP:57:LYS:NZ	16:AP:62:LYS:HG3	2.17	0.59
19:AS:21:ARG:HG3	19:AS:21:ARG:NH1	2.14	0.59
20:AT:13:SER:O	20:AT:17:VAL:CG1	2.47	0.59
20:AT:25:ARG:O	20:AT:26:GLY:C	2.45	0.59
21:AU:35:THR:N	21:AU:38:GLU:HB2	2.17	0.59
21:AU:63:LYS:CE	21:AU:63:LYS:CA	2.81	0.59
22:AV:74:PRO:HB3	22:AV:101:LYS:CA	2.32	0.59
23:AW:98:MET:O	23:AW:125:LEU:O	2.19	0.59
24:AX:25:ARG:HG2	24:AX:37:LEU:HA	1.84	0.59
25:AY:1:MET:HE3	25:AY:4:GLN:OE1	2.02	0.59
25:AY:44:LYS:HG3	25:AY:48:LEU:CD2	2.28	0.59
27:Aa:18:CYS:SG	27:Aa:33:VAL:HG21	2.42	0.59
27:Aa:41:PRO:HB3	27:Aa:58:ARG:CD	2.31	0.59
28:Ab:37:LYS:HD2	28:Ab:37:LYS:N	2.18	0.59
34:BA:251:G:H5'	34:BA:252:U:OP1	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:258:G:O6	34:BA:259:G:O6	2.19	0.59
34:BA:338:A:O2'	34:BA:339:C:H5'	2.03	0.59
34:BA:372:C:O2'	34:BA:373:A:OP2	2.14	0.59
34:BA:503:C:N3	34:BA:504:C:C5	2.70	0.59
34:BA:745:C:H1'	34:BA:836:G:O2'	2.02	0.59
34:BA:955:U:C2	34:BA:956:U:H5	2.20	0.59
34:BA:1220:G:O2'	52:BW:52:TYR:CA	2.44	0.59
34:BA:1269:A:C1'	34:BA:1312:G:N3	2.65	0.59
34:BA:1349:A:OP1	42:BM:120:ARG:HB2	2.02	0.59
34:BA:1514:C:H2'	34:BA:1515:C:C5	2.38	0.59
35:BF:141:GLU:CD	35:BF:141:GLU:C	2.69	0.59
37:BH:8:VAL:C	37:BH:10:ARG:N	2.59	0.59
37:BH:166:LYS:CE	37:BH:178:VAL:HG12	2.31	0.59
38:BI:141:GLN:N	38:BI:141:GLN:OE1	2.35	0.59
40:BK:72:ARG:HG2	40:BK:142:GLU:OE1	2.03	0.59
41:BL:9:MET:O	41:BL:13:ILE:CG1	2.49	0.59
41:BL:17:THR:HG21	41:BL:80:ILE:HG21	1.84	0.59
41:BL:30:ARG:O	41:BL:33:GLU:HB2	2.03	0.59
43:BN:65:LEU:HD13	47:BR:36:PHE:CZ	2.37	0.59
44:BO:20:TYR:O	44:BO:30:VAL:HA	2.03	0.59
44:BO:73:MET:SD	44:BO:103:LEU:HD22	2.42	0.59
44:BO:92:GLU:HA	44:BO:92:GLU:OE1	2.01	0.59
46:BQ:85:GLY:O	52:BW:74:PHE:HB3	2.02	0.59
49:BT:4:ILE:HG23	49:BT:21:VAL:HG13	1.82	0.59
51:BV:76:LEU:H	51:BV:76:LEU:CD2	2.14	0.59
55:CA:6:ARG:HB2	55:CA:68:TYR:C	2.25	0.59
55:CA:9:ALA:HB1	55:CA:73:VAL:HG23	0.61	0.59
55:CA:15:ASP:HB2	55:CA:16:HIS:CD2	2.27	0.59
55:CA:130:VAL:HG22	55:CA:166:SER:HA	1.83	0.59
55:CA:294:VAL:HG12	55:CA:295:GLU:N	2.11	0.59
55:CA:488:LEU:HD21	55:CA:527:HIS:CA	2.32	0.59
1:AA:4:C:H2'	1:AA:5:A:H8	1.66	0.59
1:AA:31:C:H5''	1:AA:1239:G:OP1	2.02	0.59
1:AA:50:U:H3'	1:AA:50:U:H6	1.67	0.59
1:AA:223:A:H4'	1:AA:223:A:OP2	2.02	0.59
1:AA:223:A:N7	1:AA:408:G:H1'	2.17	0.59
1:AA:236:C:H4'	1:AA:431:U:H1'	1.85	0.59
1:AA:242:G:C8	31:Ae:4:MET:CG	2.77	0.59
1:AA:294:A:C2	1:AA:346:A:C2	2.91	0.59
1:AA:502:A:C2'	1:AA:503:A:H5'	2.33	0.59
1:AA:637:A:C2	1:AA:651:G:H4'	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:748:G:O6	20:AT:90:ARG:NH2	2.36	0.59
1:AA:763:G:O2'	1:AA:765:G:H5'	2.03	0.59
1:AA:783:A:C2	1:AA:785:G:O4'	2.56	0.59
1:AA:838:C:H2'	1:AA:839:U:H6	1.67	0.59
1:AA:1203:G:C2	1:AA:1241:A:C8	2.91	0.59
1:AA:1290:C:H2'	1:AA:1291:C:H6	1.62	0.59
1:AA:1295:C:H2'	1:AA:1296:G:C8	2.37	0.59
1:AA:1435:G:O2'	1:AA:1436:G:H5'	2.02	0.59
1:AA:1485:G:N2	1:AA:1505:C:C2	2.70	0.59
1:AA:1507:A:N3	1:AA:1507:A:C2'	2.62	0.59
1:AA:1559:G:C4	1:AA:1559:G:C3'	2.76	0.59
1:AA:1560:G:H2'	1:AA:1561:G:H8	1.67	0.59
1:AA:1747:G:O2'	1:AA:1748:G:H5'	2.02	0.59
1:AA:1799:G:H5''	4:AD:264:LYS:HZ3	1.67	0.59
1:AA:1966:A:O2'	1:AA:1967:C:OP2	2.20	0.59
1:AA:2009:G:H5''	20:AT:41:LYS:CG	2.32	0.59
1:AA:2524:G:C6	1:AA:2525:G:C4	2.91	0.59
1:AA:2749:A:C6	1:AA:2750:A:N7	2.71	0.59
2:AB:104:A:O2'	23:AW:29:TYR:OH	2.19	0.59
4:AD:10:THR:N	4:AD:23:GLU:OE2	2.27	0.59
4:AD:73:VAL:HG12	4:AD:120:GLY:HA3	1.85	0.59
4:AD:126:GLN:O	4:AD:127:VAL:C	2.45	0.59
4:AD:201:HIS:HD2	4:AD:202:LYS:CE	2.15	0.59
5:AE:5:LEU:HD13	5:AE:196:VAL:C	2.27	0.59
5:AE:36:ARG:CD	5:AE:41:LYS:HZ2	2.10	0.59
5:AE:128:SER:OG	5:AE:129:HIS:HD2	1.86	0.59
5:AE:164:ARG:C	5:AE:165:VAL:HG22	2.27	0.59
6:AF:132:VAL:C	6:AF:134:GLY:N	2.60	0.59
7:AG:49:ASP:O	7:AG:53:LEU:HD13	2.03	0.59
8:AH:45:VAL:HG13	8:AH:50:VAL:CG2	2.32	0.59
8:AH:88:LEU:HD23	8:AH:89:ILE:C	2.27	0.59
11:AK:36:GLY:O	11:AK:43:THR:N	2.36	0.59
12:AL:15:GLY:HA3	12:AL:52:VAL:HG21	1.84	0.59
12:AL:97:ARG:HE	12:AL:99:PHE:N	2.00	0.59
12:AL:99:PHE:CD1	12:AL:100:GLY:N	2.70	0.59
12:AL:101:PRO:O	12:AL:102:VAL:HB	2.02	0.59
12:AL:119:PRO:CG	34:BA:347:G:N7	2.65	0.59
13:AM:126:VAL:CG2	13:AM:127:ALA:N	2.66	0.59
13:AM:126:VAL:O	13:AM:127:ALA:HB2	2.02	0.59
14:AN:6:ARG:HG2	14:AN:7:MET:H	1.64	0.59
14:AN:16:ARG:NE	14:AN:73:PRO:CD	2.65	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:94:TYR:O	15:AO:117:VAL:HG12	2.02	0.59
17:AQ:92:GLY:HA2	17:AQ:93:ARG:CZ	2.31	0.59
18:AR:54:LYS:HE2	18:AR:54:LYS:CA	2.32	0.59
18:AR:92:ARG:O	18:AR:94:ASN:N	2.34	0.59
19:AS:3:ALA:HA	19:AS:44:LYS:HZ3	1.66	0.59
21:AU:50:LYS:HG3	21:AU:84:ALA:CB	2.33	0.59
22:AV:84:ARG:HG2	22:AV:86:ARG:N	2.17	0.59
23:AW:1:MET:HE1	23:AW:59:LEU:HD22	1.84	0.59
23:AW:39:VAL:HG13	23:AW:44:PHE:CG	2.36	0.59
23:AW:91:LEU:HB2	23:AW:131:ARG:NH1	2.18	0.59
23:AW:96:VAL:CA	23:AW:128:VAL:HG13	2.30	0.59
30:Ad:43:THR:HG23	30:Ad:46:VAL:HB	1.85	0.59
32:Af:9:ARG:HE	32:Af:16:VAL:HB	1.66	0.59
34:BA:169:C:H2'	34:BA:170:U:C5	2.35	0.59
34:BA:186(E):C:O2'	34:BA:186(F):C:H5'	2.01	0.59
34:BA:482:A:N3	34:BA:482:A:C2'	2.66	0.59
34:BA:597:G:H2'	34:BA:598:U:C5'	2.31	0.59
34:BA:676:A:H4'	44:BO:114:VAL:O	2.03	0.59
34:BA:812:C:O2'	34:BA:813:U:OP2	2.20	0.59
34:BA:1054:C:H2'	34:BA:1055:A:C5'	2.30	0.59
34:BA:1069:C:N4	34:BA:1094:G:O6	2.35	0.59
34:BA:1109:C:OP1	36:BG:176:HIS:CD2	2.55	0.59
34:BA:1117:G:C2	34:BA:1184:G:C1'	2.80	0.59
34:BA:1161:C:H2'	34:BA:1162:C:C6	2.37	0.59
34:BA:1212:U:O2'	34:BA:1213:A:O5'	2.20	0.59
34:BA:1309:G:C2	34:BA:1328:C:C2	2.83	0.59
34:BA:1358:U:C5'	47:BR:34:TYR:HA	2.32	0.59
34:BA:1417:G:H22	34:BA:1482:G:H2'	1.67	0.59
34:BA:1508:G:H2'	34:BA:1509:C:H6	1.68	0.59
35:BF:77:ALA:O	35:BF:80:ILE:N	2.34	0.59
35:BF:131:PRO:O	35:BF:134:GLU:N	2.35	0.59
35:BF:136:VAL:N	35:BF:139:LYS:NZ	2.51	0.59
35:BF:156:LYS:O	35:BF:156:LYS:HG2	2.02	0.59
35:BF:199:TYR:O	35:BF:201:ILE:HD12	2.03	0.59
36:BG:122:GLU:O	36:BG:125:GLU:HB2	2.02	0.59
36:BG:131:ARG:NH1	38:BI:50:GLU:OE1	2.36	0.59
37:BH:63:LYS:HD2	37:BH:63:LYS:H	1.67	0.59
37:BH:82:ALA:HB1	37:BH:89:THR:HA	1.84	0.59
37:BH:200:GLU:O	37:BH:201:GLN:C	2.45	0.59
38:BI:80:ILE:CD1	38:BI:91:LEU:HB3	2.33	0.59
39:BJ:89:MET:HG2	51:BV:76:LEU:HD21	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:47:CYS:HA	40:BK:50:ILE:HD12	1.84	0.59
41:BL:17:THR:HG21	41:BL:80:ILE:CG2	2.32	0.59
42:BM:47:LEU:HD11	42:BM:56:LEU:CG	2.33	0.59
42:BM:87:GLN:O	42:BM:90:PRO:HD3	2.02	0.59
44:BO:63:LEU:HD23	44:BO:63:LEU:O	2.02	0.59
46:BQ:14:ARG:HE	46:BQ:42:ALA:CA	2.12	0.59
47:BR:40:CYS:O	47:BR:44:LEU:HB2	2.02	0.59
50:BU:81:ARG:CG	50:BU:84:LEU:HD21	2.32	0.59
51:BV:26:LEU:HD22	51:BV:39:VAL:CG2	2.33	0.59
53:BX:51:GLU:HA	53:BX:54:LYS:CG	2.32	0.59
54:BY:4:GLY:C	54:BY:6:ARG:N	2.57	0.59
55:CA:10:ILE:H	55:CA:74:ASP:H	0.60	0.59
55:CA:27:GLN:CD	55:CA:183:MET:HG3	2.25	0.59
55:CA:146:ASP:CA	55:CA:149:VAL:HG12	2.33	0.59
55:CA:160:PHE:CG	55:CA:162:ILE:HD12	2.37	0.59
55:CA:258:LEU:HB3	55:CA:260:LEU:CD1	2.32	0.59
55:CA:572:ILE:CG2	55:CA:578:VAL:HG22	2.27	0.59
1:AA:197:A:C2	1:AA:198:C:O4'	2.56	0.59
1:AA:366:C:C6	1:AA:366:C:O5'	2.56	0.59
1:AA:472:A:C2'	1:AA:473:G:C5'	2.75	0.59
1:AA:610:C:H2'	1:AA:611:C:C6	2.38	0.59
1:AA:612:G:H21	1:AA:617:G:H1	1.50	0.59
1:AA:614:U:H5''	1:AA:615:G:OP2	2.02	0.59
1:AA:729:G:N7	1:AA:730:C:C6	2.70	0.59
1:AA:873:G:C2	1:AA:874:G:H1'	2.37	0.59
1:AA:943:U:OP1	1:AA:943:U:C4'	2.51	0.59
1:AA:1000:A:C8	1:AA:1154:G:N2	2.71	0.59
1:AA:1107:G:H8	1:AA:1107:G:O5'	1.84	0.59
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.38	0.59
1:AA:1291:C:O2'	1:AA:1292:U:H5'	2.02	0.59
1:AA:1296:G:H2'	1:AA:1297:C:C6	2.36	0.59
1:AA:1364:G:O5'	1:AA:1809:A:C6	2.56	0.59
1:AA:1656:C:H2'	1:AA:1657:C:H5	1.62	0.59
1:AA:1667:G:O6	1:AA:1992:G:OP1	2.20	0.59
1:AA:1695:G:C3'	1:AA:1696:G:H5'	2.32	0.59
1:AA:1841:U:C2	1:AA:1842:G:N7	2.71	0.59
1:AA:1996:C:C5'	1:AA:1996:C:C6	2.76	0.59
1:AA:1997:G:C2	1:AA:1998:G:C5	2.89	0.59
1:AA:2011:U:H2'	1:AA:2012:G:H8	1.67	0.59
1:AA:2046:G:H2'	1:AA:2047:U:C5	2.38	0.59
1:AA:2251:G:N1	1:AA:2252:G:C2	2.70	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2283:C:H2'	1:AA:2284:C:H4'	1.85	0.59
1:AA:2567:G:C5	1:AA:2568:C:N4	2.71	0.59
1:AA:2642:G:H2'	1:AA:2643:G:H8	1.67	0.59
1:AA:2652:C:N3	1:AA:2669:G:N3	2.50	0.59
1:AA:2884:U:H2'	1:AA:2885:C:O4'	2.03	0.59
2:AB:13:A:N3	2:AB:13:A:H2'	2.15	0.59
2:AB:23:G:N2	2:AB:61:G:C5	2.70	0.59
2:AB:32:C:H3'	2:AB:33:G:H8	1.68	0.59
2:AB:65:C:H2'	2:AB:66:A:H5'	1.84	0.59
2:AB:71:C:H2'	2:AB:71:C:O2	2.03	0.59
2:AB:73:A:C8	2:AB:104:A:C6	2.90	0.59
3:AC:21:THR:HG22	3:AC:225:ASN:HD22	1.67	0.59
4:AD:60:ARG:HB3	4:AD:62:TYR:CE2	2.38	0.59
4:AD:183:ARG:HA	4:AD:268:ARG:HA	1.83	0.59
6:AF:56:GLU:C	6:AF:60:SER:OG	2.46	0.59
6:AF:77:ASP:O	6:AF:80:ALA:HB2	2.01	0.59
6:AF:119:ARG:NH1	6:AF:120:GLU:OE1	2.34	0.59
6:AF:122:LYS:CE	6:AF:192:LEU:HB3	2.33	0.59
7:AG:54:GLU:OE1	7:AG:69:ALA:O	2.20	0.59
7:AG:139:LEU:O	7:AG:139:LEU:HD22	2.02	0.59
8:AH:171:LEU:HA	8:AH:172:LYS:NZ	2.17	0.59
10:AJ:47:ASN:C	10:AJ:48:MET:HG3	2.27	0.59
10:AJ:78:ILE:CG2	10:AJ:127:ILE:CG1	2.79	0.59
12:AL:119:PRO:HB3	34:BA:347:G:N7	2.16	0.59
12:AL:122:LEU:C	17:AQ:74:ARG:HH22	2.09	0.59
13:AM:76:LYS:CE	13:AM:99:LEU:HD11	2.31	0.59
13:AM:81:GLN:HE22	13:AM:123:LEU:HD21	1.66	0.59
14:AN:16:ARG:CG	14:AN:72:LYS:HB3	2.32	0.59
14:AN:77:LYS:HB2	14:AN:78:PRO:CD	2.32	0.59
15:AO:7:GLY:O	15:AO:8:ARG:C	2.45	0.59
15:AO:52:ILE:O	15:AO:55:ALA:HB3	2.03	0.59
16:AP:66:ALA:O	16:AP:68:GLN:N	2.36	0.59
18:AR:8:VAL:HG23	18:AR:9:VAL:HG23	1.82	0.59
18:AR:14:HIS:CD2	18:AR:36:ARG:HH12	2.20	0.59
18:AR:97:ASP:CB	18:AR:101:ARG:NH2	2.66	0.59
19:AS:67:GLY:CA	19:AS:94:LEU:HD23	2.33	0.59
20:AT:14:PRO:N	20:AT:78:GLU:OE1	2.35	0.59
22:AV:21:LYS:HB2	22:AV:23:ARG:NH2	2.17	0.59
22:AV:45:VAL:C	22:AV:57:GLN:HG2	2.28	0.59
23:AW:82:ARG:HG3	23:AW:83:PRO:N	2.17	0.59
23:AW:120:ILE:HB	23:AW:123:ASP:OD2	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:37:LEU:CG	24:AX:59:LEU:O	2.48	0.59
24:AX:72:ARG:CD	24:AX:75:LEU:HD22	2.33	0.59
25:AY:14:VAL:HA	25:AY:17:GLU:OE2	2.01	0.59
26:AZ:23:LEU:CB	26:AZ:28:LEU:HD12	2.32	0.59
27:Aa:6:HIS:HB2	27:Aa:56:VAL:HG13	1.84	0.59
31:Ae:42:ARG:HB3	31:Ae:43:GLN:NE2	2.16	0.59
34:BA:19:C:H1'	34:BA:864:A:N3	2.18	0.59
34:BA:21:G:N2	34:BA:916:G:C5	2.71	0.59
34:BA:300:A:H2'	34:BA:301:G:C5'	2.33	0.59
34:BA:306:G:C4	34:BA:307:C:C5	2.91	0.59
34:BA:357:G:H1'	34:BA:368:U:O2	2.02	0.59
34:BA:559:A:O2'	34:BA:560:U:P	2.61	0.59
34:BA:676:A:H2'	34:BA:677:U:H6	1.68	0.59
34:BA:692:U:O4	44:BO:53:SER:N	2.36	0.59
34:BA:1117:G:O6	34:BA:1184:G:O6	2.19	0.59
34:BA:1258:G:H2'	34:BA:1259:C:C5	2.37	0.59
34:BA:1314:C:N3	34:BA:1323:G:N2	2.48	0.59
34:BA:1347:G:HO2'	34:BA:1348:U:P	2.25	0.59
34:BA:1405:G:C4'	34:BA:1519:A:H4'	2.33	0.59
34:BA:1465:C:O5'	34:BA:1465:C:H6	1.85	0.59
34:BA:1499:A:N7	34:BA:1500:A:C5	2.70	0.59
35:BF:192:SER:O	35:BF:194:PRO:CD	2.51	0.59
36:BG:22:TRP:HH2	36:BG:33:LEU:N	2.01	0.59
36:BG:157:ILE:HG21	36:BG:164:ARG:HE	1.67	0.59
37:BH:43:HIS:CB	37:BH:46:LYS:HG3	2.18	0.59
38:BI:80:ILE:HD11	38:BI:91:LEU:HB3	1.83	0.59
40:BK:86:GLN:HB2	40:BK:148:ASN:CG	2.28	0.59
40:BK:102:ARG:O	40:BK:103:TRP:C	2.45	0.59
41:BL:70:GLN:CB	41:BL:73:ASP:O	2.50	0.59
42:BM:69:GLY:C	42:BM:73:GLN:OE1	2.46	0.59
43:BN:63:PHE:HA	47:BR:59:ALA:HB2	1.83	0.59
44:BO:23:ALA:CB	44:BO:88:GLY:HA3	2.32	0.59
44:BO:87:THR:HG22	44:BO:91:ARG:NH2	2.16	0.59
46:BQ:15:VAL:C	46:BQ:34:LEU:HG	2.25	0.59
52:BW:40:ILE:CD1	52:BW:71:LEU:HD23	2.32	0.59
53:BX:91:LEU:N	53:BX:91:LEU:HD23	2.18	0.59
55:CA:5:LEU:CD1	55:CA:269:GLU:HG3	2.31	0.59
55:CA:13:HIS:HD2	55:CA:106:MET:C	2.09	0.59
55:CA:80:ASP:HA	55:CA:365:HIS:HB2	1.83	0.59
55:CA:89:MET:CG	55:CA:119:TYR:HE2	2.15	0.59
55:CA:111:PHE:HZ	55:CA:361:ARG:NH1	2.00	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:157:GLN:C	55:CA:159:ASP:CB	2.75	0.59
55:CA:320:GLY:N	55:CA:321:LYS:HG3	2.16	0.59
55:CA:390:ARG:CG	55:CA:391:GLU:HA	2.33	0.59
1:AA:2:G:C5	1:AA:2902:C:C2	2.64	0.59
1:AA:28:A:H1'	1:AA:513:A:C6	2.36	0.59
1:AA:503:A:H4'	1:AA:504:U:O5'	2.01	0.59
1:AA:566:U:C6	19:AS:82:ARG:NH2	2.70	0.59
1:AA:569:U:H4'	1:AA:946:G:N3	2.18	0.59
1:AA:728:G:O2'	1:AA:729:G:C5'	2.50	0.59
1:AA:928:G:O2'	26:AZ:43:ILE:HG12	2.03	0.59
1:AA:980:A:C6	1:AA:1135:C:C4'	2.85	0.59
1:AA:1021:A:C2	1:AA:1122:G:H4'	2.38	0.59
1:AA:1410:G:H2'	1:AA:1411:C:O4'	2.02	0.59
1:AA:1422:G:O2'	1:AA:1493:C:O2	2.18	0.59
1:AA:1427:A:OP1	1:AA:1427:A:H8	1.85	0.59
1:AA:1449:A:C2	1:AA:1449(A):G:C1'	2.85	0.59
1:AA:1472:A:N6	1:AA:1518:C:N4	2.51	0.59
1:AA:1620:G:O2'	1:AA:1621:U:H5'	2.01	0.59
1:AA:1667:G:N2	1:AA:1991:U:N3	2.51	0.59
1:AA:1684:C:C4	1:AA:1705:G:N2	2.71	0.59
1:AA:1709:U:H2'	1:AA:1710:C:C6	2.37	0.59
1:AA:2018:G:O6	1:AA:2035:G:O6	2.21	0.59
1:AA:2312:U:OP2	7:AG:86:MET:HE2	2.03	0.59
1:AA:2387:U:O2	24:AX:41:ARG:NH2	2.35	0.59
1:AA:2406:U:OP2	1:AA:2411:A:N6	2.34	0.59
1:AA:2466:C:N4	1:AA:2485:G:C6	2.71	0.59
1:AA:2690:C:H5	15:AO:14:SER:HB2	1.65	0.59
1:AA:2696:U:H2'	1:AA:2697:G:O5'	2.02	0.59
1:AA:2723:C:HO2'	15:AO:2:ARG:N	2.00	0.59
1:AA:2774:C:H3'	1:AA:2775:A:H8	1.67	0.59
1:AA:2847:U:C3'	17:AQ:99:LEU:HD12	2.31	0.59
2:AB:87:G:N1	2:AB:90:C:C4	2.69	0.59
3:AC:77:ILE:HG22	3:AC:119:VAL:CG2	2.31	0.59
5:AE:100:GLU:H	5:AE:172:VAL:HG22	1.65	0.59
7:AG:10:LYS:O	7:AG:11:TYR:C	2.45	0.59
8:AH:161:GLY:C	8:AH:163:TYR:CE1	2.81	0.59
14:AN:43:THR:HG1	14:AN:45:GLN:HB2	1.67	0.59
17:AQ:64:ARG:CZ	17:AQ:77:PRO:CB	2.80	0.59
17:AQ:82:LEU:C	17:AQ:84:GLN:H	2.09	0.59
18:AR:67:ALA:HB1	18:AR:71:GLN:NE2	2.15	0.59
19:AS:17:GLY:O	19:AS:98:GLU:HG3	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:18:LEU:HD23	19:AS:18:LEU:N	2.12	0.59
20:AT:33:ARG:HA	20:AT:33:ARG:NE	2.14	0.59
20:AT:33:ARG:NH1	20:AT:37:ARG:HB3	2.17	0.59
20:AT:43:GLY:O	20:AT:44:ALA:C	2.45	0.59
21:AU:92:LEU:HA	21:AU:95:LEU:HD12	1.83	0.59
22:AV:7:VAL:CG1	22:AV:71:LYS:HB3	2.32	0.59
23:AW:29:TYR:HD1	23:AW:89:PHE:CE1	2.20	0.59
23:AW:41:LEU:O	23:AW:44:PHE:N	2.36	0.59
24:AX:9:SER:C	24:AX:10:THR:O	2.41	0.59
28:Ab:4:HIS:CG	28:Ab:5:PRO:HD3	2.36	0.59
30:Ad:9:ARG:O	30:Ad:13:ALA:HB2	2.03	0.59
31:Ae:44:LYS:O	31:Ae:44:LYS:HG3	2.03	0.59
32:Af:10:ILE:HD12	32:Af:14:CYS:CB	2.33	0.59
34:BA:5:U:C5	37:BH:86:LYS:HD3	2.38	0.59
34:BA:129(A):G:N2	34:BA:191(A):G:N7	2.50	0.59
34:BA:189:U:H2'	50:BU:63:ARG:NH2	2.16	0.59
34:BA:244:U:O4	34:BA:893:C:N3	2.36	0.59
34:BA:265:G:C2'	34:BA:267:C:H5	2.09	0.59
34:BA:676:A:H5''	44:BO:113:PRO:HB2	1.84	0.59
34:BA:721:G:O6	51:BV:71:LYS:NZ	2.27	0.59
34:BA:822:C:H2'	34:BA:823:G:H8	1.67	0.59
34:BA:940:C:H2'	34:BA:941:G:C8	2.37	0.59
34:BA:951:G:O4'	34:BA:971:G:H5'	2.02	0.59
34:BA:964:A:OP1	34:BA:1199:U:OP1	2.21	0.59
34:BA:1143:G:N2	34:BA:1144:G:C4	2.71	0.59
34:BA:1178:G:N2	34:BA:1180:A:H5''	2.18	0.59
35:BF:72:GLY:O	35:BF:74:LYS:N	2.35	0.59
35:BF:97:TRP:CE3	35:BF:172:ILE:HB	2.36	0.59
36:BG:114:PRO:HD3	36:BG:183:ASP:OD1	2.03	0.59
38:BI:9:LYS:CB	38:BI:33:VAL:HB	2.30	0.59
38:BI:12:LEU:HG	38:BI:129:ILE:HD11	1.83	0.59
38:BI:18:ARG:O	38:BI:25:ARG:O	2.21	0.59
38:BI:48:ALA:HB3	38:BI:53:LEU:CB	2.26	0.59
40:BK:122:HIS:HA	40:BK:125:MET:SD	2.43	0.59
41:BL:6:ILE:O	41:BL:7:ALA:C	2.42	0.59
42:BM:116:LYS:O	42:BM:121:ARG:HB3	2.02	0.59
46:BQ:19:LEU:HD12	46:BQ:20:THR:N	2.18	0.59
46:BQ:20:THR:N	46:BQ:25:ILE:CG2	2.65	0.59
46:BQ:33:ALA:O	46:BQ:37:THR:HG22	2.03	0.59
47:BR:54:PRO:O	47:BR:56:VAL:N	2.35	0.59
48:BS:34:LEU:CG	48:BS:35:ARG:H	2.09	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:54:GLU:O	49:BT:55:ARG:C	2.45	0.59
52:BW:3:ARG:O	52:BW:5:LEU:HD22	2.03	0.59
52:BW:29:ARG:HG2	52:BW:48:THR:HB	1.85	0.59
52:BW:36:ARG:HB2	52:BW:71:LEU:HB3	1.85	0.59
55:CA:57:LEU:HD12	55:CA:254:VAL:O	2.02	0.59
55:CA:64:ILE:N	55:CA:65:LYS:HA	2.16	0.59
55:CA:91:MET:HE2	55:CA:225:ARG:C	2.27	0.59
1:AA:5:A:C4	1:AA:2899:G:C2	2.91	0.59
1:AA:270(X):G:C3'	1:AA:270(Y):G:H5'	2.31	0.59
1:AA:408:G:O2'	1:AA:409:C:H5'	2.02	0.59
1:AA:460:A:C3'	1:AA:461:C:H6	2.16	0.59
1:AA:572:A:H2'	1:AA:573:G:C1'	2.31	0.59
1:AA:637:A:N3	1:AA:651:G:H4'	2.17	0.59
1:AA:653:A:C5'	1:AA:654:A:H4'	2.32	0.59
1:AA:695:G:O2'	1:AA:696:G:H5'	2.03	0.59
1:AA:763:G:H5'	4:AD:211:ARG:NH1	2.18	0.59
1:AA:896:A:H2	1:AA:897:C:N1	1.99	0.59
1:AA:942:G:O3'	13:AM:32:THR:HG22	2.02	0.59
1:AA:1095:A:C5'	55:CA:416:MET:CE	2.67	0.59
1:AA:1264:G:OP2	1:AA:1265:A:H2	1.86	0.59
1:AA:1295:C:H2'	1:AA:1296:G:H8	1.67	0.59
1:AA:1322:A:H2'	1:AA:1323:U:H5'	1.84	0.59
1:AA:1405:U:C2'	1:AA:1406:U:C6	2.77	0.59
1:AA:1447:G:H21	1:AA:1545:A:H2	1.51	0.59
1:AA:1491:G:H3'	1:AA:1492:G:H4'	1.84	0.59
1:AA:1520:U:H3'	1:AA:1520:U:C6	2.35	0.59
1:AA:1521:G:C3'	1:AA:1522:G:H5'	2.33	0.59
1:AA:1655:A:C2'	1:AA:1656:C:C6	2.86	0.59
1:AA:1669:A:H5''	1:AA:2550:G:P	2.42	0.59
1:AA:1688:U:C2	1:AA:1700:A:H5''	2.38	0.59
1:AA:1788:C:C4	1:AA:1789:A:H8	2.20	0.59
1:AA:1813:G:C4'	4:AD:46:GLN:HB2	2.29	0.59
1:AA:1861:G:C2'	1:AA:1862:G:H5'	2.32	0.59
1:AA:1992:G:C4'	1:AA:1993:U:C4	2.85	0.59
1:AA:2081:C:C2	1:AA:2082:A:C8	2.90	0.59
1:AA:2216:G:H8	1:AA:2216:G:O5'	1.85	0.59
1:AA:2466:C:C4	1:AA:2485:G:N1	2.71	0.59
1:AA:2586:C:N4	1:AA:2587:A:N6	2.50	0.59
1:AA:2778:A:H4'	1:AA:2779:U:OP2	2.02	0.59
1:AA:2784:C:H1'	5:AE:41:LYS:HZ3	1.66	0.59
4:AD:34:VAL:N	4:AD:104:TYR:OH	2.34	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:133:LEU:HD12	4:AD:187:GLY:HA2	1.83	0.59
5:AE:4:ILE:O	5:AE:27:LEU:HB2	2.02	0.59
6:AF:34:TRP:O	6:AF:37:VAL:N	2.36	0.59
6:AF:84:VAL:O	6:AF:86:GLY:N	2.36	0.59
6:AF:192:LEU:HD22	6:AF:193:VAL:H	1.68	0.59
6:AF:199:TRP:C	6:AF:203:GLN:OE1	2.46	0.59
7:AG:12:TYR:CZ	7:AG:13:GLU:HG3	2.38	0.59
7:AG:26:GLN:HG2	7:AG:29:TRP:CE3	2.38	0.59
7:AG:34:LEU:HD13	7:AG:100:TRP:NE1	2.18	0.59
7:AG:97:ASP:O	7:AG:100:TRP:N	2.35	0.59
7:AG:107:LEU:CD2	7:AG:177:GLY:HA3	2.33	0.59
7:AG:119:GLY:HA3	7:AG:180:PHE:CD2	2.37	0.59
7:AG:166:ASP:O	7:AG:168:GLU:N	2.36	0.59
11:AK:139:GLU:C	11:AK:139:GLU:OE1	2.45	0.59
13:AM:58:THR:OG1	31:Ae:13:ARG:NH1	2.35	0.59
13:AM:77:ARG:NH1	13:AM:117:GLU:HG3	2.17	0.59
15:AO:44:LEU:CD1	15:AO:48:VAL:CG2	2.78	0.59
15:AO:61:HIS:ND1	15:AO:64:ARG:NE	2.51	0.59
15:AO:97:VAL:HG13	15:AO:114:VAL:CG2	2.30	0.59
15:AO:103:ARG:HB2	15:AO:108:GLY:CA	2.33	0.59
21:AU:29:TRP:HA	21:AU:77:LYS:O	2.02	0.59
23:AW:169:GLU:O	23:AW:169:GLU:HG2	2.02	0.59
24:AX:37:LEU:HD21	24:AX:60:PHE:C	2.28	0.59
26:AZ:6:VAL:HB	26:AZ:35:ARG:HH11	1.68	0.59
26:AZ:50:VAL:CG1	26:AZ:53:LEU:HB2	2.32	0.59
27:Aa:26:SER:O	27:Aa:27:THR:HG23	2.02	0.59
28:Ab:9:LYS:O	28:Ab:10:LYS:HG2	2.02	0.59
30:Ad:8:ASN:ND2	30:Ad:8:ASN:C	2.60	0.59
30:Ad:34:ARG:HH22	30:Ad:42:LEU:HD23	1.67	0.59
31:Ae:26:LYS:HB2	31:Ae:44:LYS:HZ1	1.67	0.59
32:Af:1:MET:N	32:Af:33:LYS:HB2	2.17	0.59
34:BA:91:C:C2	34:BA:92:G:C8	2.89	0.59
34:BA:232:G:C5	34:BA:233:C:N4	2.71	0.59
34:BA:244:U:C2'	34:BA:245:C:OP2	2.50	0.59
34:BA:277:C:OP2	50:BU:41:LYS:NZ	2.34	0.59
34:BA:346:G:N2	34:BA:347:G:C4	2.71	0.59
34:BA:362:G:H3'	45:BP:34:ARG:NH2	2.18	0.59
34:BA:522:C:H1'	34:BA:536:C:H5''	1.85	0.59
34:BA:557:G:H2'	34:BA:558:G:C1'	2.32	0.59
34:BA:597:G:C5	34:BA:644:G:N1	2.71	0.59
34:BA:611:A:H2'	34:BA:612:C:H6	1.68	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:652:U:O2'	34:BA:653:A:C2	2.51	0.59
34:BA:689:C:P	44:BO:55:LYS:HZ2	2.26	0.59
34:BA:908:A:H2'	34:BA:909:A:H8	1.68	0.59
34:BA:1097:C:H2'	34:BA:1098:C:C6	2.37	0.59
34:BA:1129:C:C1'	34:BA:1130:A:N7	2.65	0.59
34:BA:1129:C:C4	34:BA:1139:G:O6	2.56	0.59
34:BA:1225:A:C5'	52:BW:78:ARG:HD3	2.09	0.59
34:BA:1240:U:C6	40:BK:32:ARG:NH2	2.71	0.59
34:BA:1248:A:H2'	42:BM:70:LYS:HZ1	1.68	0.59
34:BA:1431:C:O2'	34:BA:1432:G:H5'	2.02	0.59
34:BA:1440:C:C2'	34:BA:1441:G:H5'	2.33	0.59
35:BF:46:LYS:HA	35:BF:49:GLU:OE1	2.03	0.59
35:BF:91:PRO:HG2	35:BF:155:LEU:HB2	1.85	0.59
35:BF:185:ILE:HB	35:BF:199:TYR:HB2	1.85	0.59
36:BG:64:VAL:O	36:BG:66:VAL:HG23	2.02	0.59
36:BG:120:VAL:HG21	36:BG:137:ALA:HB1	1.82	0.59
37:BH:162:LEU:CD1	37:BH:181:MET:HG2	2.25	0.59
37:BH:185:PHE:CD2	37:BH:186:LEU:N	2.71	0.59
38:BI:70:PRO:HG2	38:BI:143:ARG:HB3	1.84	0.59
41:BL:119:LEU:HD12	41:BL:123:GLU:OE2	2.03	0.59
48:BS:77:ARG:NH1	48:BS:77:ARG:O	2.36	0.59
51:BV:22:VAL:HG23	51:BV:56:THR:HA	1.84	0.59
55:CA:62:ALA:HB3	55:CA:63:ALA:O	2.03	0.59
55:CA:527:HIS:ND1	55:CA:531:ASN:OD1	2.35	0.59
1:AA:126:A:H5''	30:Ad:18:PHE:CD2	2.38	0.59
1:AA:130:C:OP1	1:AA:1348:G:N2	2.36	0.59
1:AA:475:U:N3	1:AA:479:A:N6	2.50	0.59
1:AA:522:G:H2'	1:AA:523:C:H6	1.67	0.59
1:AA:557:U:O3'	11:AK:112:LEU:CG	2.50	0.59
1:AA:569:U:P	1:AA:945:A:H61	2.26	0.59
1:AA:592:G:HO2'	31:Ae:2:PRO:HA	1.64	0.59
1:AA:602:G:H2'	1:AA:655:A:N1	2.18	0.59
1:AA:680:G:O2'	1:AA:681:G:H5'	2.02	0.59
1:AA:692:C:H4'	4:AD:42:GLY:HA3	1.85	0.59
1:AA:806:C:O2'	1:AA:2445:G:O4'	2.21	0.59
1:AA:832:G:OP2	13:AM:35:HIS:CG	2.56	0.59
1:AA:878:A:N3	1:AA:879:G:H5''	2.18	0.59
1:AA:901:A:N7	1:AA:902:C:C5	2.68	0.59
1:AA:914:C:C5	1:AA:915:C:C5	2.91	0.59
1:AA:933:A:C2	1:AA:934:G:C8	2.90	0.59
1:AA:1095:A:O2'	1:AA:1096:A:O4'	2.21	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1142(A):A:H3'	1:AA:1143:A:H5''	1.83	0.59
1:AA:1149:G:O2'	1:AA:1150:C:H5'	2.03	0.59
1:AA:1183:G:H1'	1:AA:1184:G:N7	2.18	0.59
1:AA:1206:G:H2'	1:AA:1207:C:C4'	2.32	0.59
1:AA:1343:G:N2	1:AA:1405:U:C1'	2.66	0.59
1:AA:1457:A:O2'	1:AA:1458:C:H5'	2.02	0.59
1:AA:1514:U:H2'	1:AA:1514:U:O2	2.03	0.59
1:AA:1602:U:C2'	1:AA:1603:A:O5'	2.49	0.59
1:AA:1630:G:C5	1:AA:1630(A):C:C5	2.90	0.59
1:AA:1637:A:H2'	1:AA:1638:C:C6	2.38	0.59
1:AA:1802:A:OP1	1:AA:1814:G:N2	2.26	0.59
1:AA:1906:G:OP2	1:AA:1930:G:C8	2.56	0.59
1:AA:1944:U:O2	1:AA:1955:U:C6	2.56	0.59
1:AA:1953:A:N6	1:AA:2550:G:H5'	2.18	0.59
1:AA:1992:G:C6	1:AA:1997:G:C4	2.91	0.59
1:AA:2018:G:H3'	1:AA:2018:G:P	2.43	0.59
1:AA:2043:C:O2'	1:AA:2044:C:O5'	2.20	0.59
1:AA:2401:U:OP2	1:AA:2402:C:N4	2.35	0.59
1:AA:2483:C:N3	14:AN:124:LYS:HE2	2.16	0.59
1:AA:2543:G:C6	1:AA:2544:G:C6	2.90	0.59
1:AA:2652:C:C4	1:AA:2669:G:N3	2.71	0.59
1:AA:2652:C:C2	1:AA:2670:A:C1'	2.84	0.59
1:AA:2691:C:O2'	1:AA:2692:C:H5'	2.02	0.59
1:AA:2755:C:H4'	1:AA:2756:U:C5	2.37	0.59
1:AA:2810:A:H2'	1:AA:2811:G:C5'	2.33	0.59
1:AA:2865:U:O4	1:AA:2866:U:H5	1.85	0.59
2:AB:52:A:C2'	2:AB:53:A:H5'	2.33	0.59
3:AC:22:ILE:CB	3:AC:190:ARG:HH22	2.14	0.59
3:AC:76:ALA:HB2	3:AC:153:ILE:HD11	1.84	0.59
4:AD:227:ASN:C	4:AD:229:VAL:H	2.10	0.59
5:AE:166:THR:OG1	5:AE:167:VAL:N	2.36	0.59
6:AF:183:VAL:C	6:AF:186:ILE:HB	2.27	0.59
7:AG:47:LYS:HB3	7:AG:72:ARG:O	2.02	0.59
7:AG:47:LYS:HE2	7:AG:73:ALA:CB	2.31	0.59
7:AG:135:LEU:O	7:AG:155:MET:O	2.21	0.59
8:AH:85:LYS:HD2	8:AH:145:ALA:HB2	1.83	0.59
8:AH:107:VAL:HG13	8:AH:152:ARG:HD2	1.83	0.59
8:AH:156:ALA:HA	8:AH:171:LEU:HD23	1.85	0.59
8:AH:175:LYS:CG	8:AH:176:ALA:N	2.48	0.59
10:AJ:121:GLU:OE1	10:AJ:121:GLU:HA	2.02	0.59
11:AK:16:ILE:CD1	11:AK:52:VAL:HG22	2.11	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:87:LEU:O	11:AK:90:MET:CB	2.44	0.59
11:AK:123:TYR:C	11:AK:125:GLY:N	2.55	0.59
12:AL:64:ARG:NH1	12:AL:77:ILE:HA	2.14	0.59
12:AL:106:LEU:HD21	17:AQ:38:ASN:HD21	1.67	0.59
13:AM:45:LEU:HD22	31:Ae:59:LYS:CD	2.32	0.59
13:AM:76:LYS:HE3	13:AM:99:LEU:HD11	1.85	0.59
14:AN:38:GLU:N	14:AN:38:GLU:OE1	2.35	0.59
14:AN:124:LYS:HZ2	14:AN:124:LYS:CB	1.87	0.59
15:AO:38:VAL:HG23	15:AO:110:PRO:O	2.03	0.59
16:AP:73:LEU:HD13	16:AP:73:LEU:N	2.17	0.59
17:AQ:27:THR:HB	17:AQ:95:ARG:H	1.67	0.59
17:AQ:57:PHE:C	17:AQ:58:ASN:ND2	2.58	0.59
18:AR:99:ALA:HA	18:AR:106:PHE:CD1	2.37	0.59
19:AS:28:GLU:C	19:AS:30:GLY:N	2.59	0.59
25:AY:26:GLU:O	25:AY:29:GLU:HB2	2.03	0.59
25:AY:30:LEU:O	25:AY:33:GLN:N	2.35	0.59
27:Aa:11:PRO:O	27:Aa:12:ALA:HB2	2.03	0.59
30:Ad:1:MET:O	30:Ad:1:MET:HG3	2.03	0.59
32:Af:28:GLU:O	32:Af:29:ASN:HB2	2.03	0.59
34:BA:42:G:H2'	34:BA:43:C:H6	1.66	0.59
34:BA:44:G:H2'	34:BA:45:U:C5'	2.32	0.59
34:BA:96:G:H2'	34:BA:97:U:H6	1.63	0.59
34:BA:130:A:H5''	34:BA:190:G:H2'	1.85	0.59
34:BA:336:C:H2'	34:BA:337:C:C6	2.38	0.59
34:BA:355:C:C1'	34:BA:388:G:H2'	2.24	0.59
34:BA:595:G:H8	34:BA:641:U:C4	2.19	0.59
34:BA:687:A:H2'	34:BA:701:C:H41	1.66	0.59
34:BA:766:A:C2	34:BA:767:A:H1'	2.37	0.59
34:BA:914:A:H2'	34:BA:915:A:C8	2.38	0.59
34:BA:951:G:N2	34:BA:952:U:C2	2.70	0.59
34:BA:1085:U:O2	34:BA:1094:G:O6	2.21	0.59
34:BA:1203:C:H2'	34:BA:1204:A:H8	1.68	0.59
34:BA:1285:A:C4'	34:BA:1286:A:N7	2.65	0.59
34:BA:1361:G:N7	34:BA:1362:C:H5	2.00	0.59
35:BF:61:LEU:N	35:BF:64:ARG:HH11	2.01	0.59
35:BF:101:MET:C	35:BF:103:THR:N	2.59	0.59
35:BF:149:LEU:C	35:BF:151:GLY:N	2.56	0.59
36:BG:17:ASP:OD2	36:BG:18:TRP:CZ3	2.56	0.59
36:BG:55:VAL:HG22	36:BG:68:VAL:HG22	1.83	0.59
37:BH:52:SER:O	37:BH:53:ASP:C	2.45	0.59
37:BH:200:GLU:HG3	37:BH:201:GLN:H	1.68	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:40:ARG:N	38:BI:68:GLU:OE1	2.35	0.59
38:BI:62:ALA:HB3	38:BI:63:ARG:HE	1.68	0.59
41:BL:17:THR:HB	41:BL:18:ARG:CZ	2.33	0.59
41:BL:39:LEU:HD12	41:BL:45:ILE:HG22	1.85	0.59
44:BO:23:ALA:HB2	44:BO:28:THR:CG2	2.32	0.59
44:BO:54:ARG:C	44:BO:56:GLY:N	2.60	0.59
45:BP:11:VAL:HG22	50:BU:32:TYR:HD1	1.66	0.59
45:BP:91:LYS:O	45:BP:92:ASP:HB3	2.03	0.59
46:BQ:56:LEU:CD1	46:BQ:60:VAL:HG21	2.33	0.59
48:BS:79:ARG:CG	48:BS:82:ILE:HD12	2.33	0.59
49:BT:26:ARG:O	49:BT:27:LYS:C	2.46	0.59
49:BT:49:LEU:CD2	49:BT:73:LEU:HD21	2.32	0.59
49:BT:52:ASP:C	49:BT:52:ASP:OD2	2.45	0.59
51:BV:47:THR:O	51:BV:47:THR:HG22	2.02	0.59
51:BV:53:ARG:NH1	51:BV:58:LEU:O	2.36	0.59
53:BX:23:ARG:NH1	53:BX:24:LEU:HG	2.18	0.59
55:CA:119:TYR:CD2	55:CA:121:LEU:CD1	2.86	0.59
55:CA:159:ASP:O	55:CA:162:ILE:HG13	2.03	0.59
55:CA:183:MET:HA	55:CA:183:MET:CE	2.29	0.59
55:CA:253:LYS:HB2	55:CA:262:ARG:CG	2.33	0.59
55:CA:383:SER:HB3	55:CA:384:ARG:NE	2.18	0.59
1:AA:38:A:H2'	1:AA:39:C:H6	1.68	0.59
1:AA:98:G:N2	1:AA:103:A:C2	2.70	0.59
1:AA:114:U:H2'	1:AA:115:C:H6	1.67	0.59
1:AA:120:U:H1'	1:AA:149:A:H1'	1.85	0.59
1:AA:185:U:C2	1:AA:212:G:N2	2.71	0.59
1:AA:245:G:H1	1:AA:253:C:N4	2.01	0.59
1:AA:266:G:H5'	1:AA:271(A):C:H42	1.68	0.59
1:AA:410:G:H5''	1:AA:411:G:OP2	2.02	0.59
1:AA:481:G:H22	1:AA:509:C:N4	2.01	0.59
1:AA:616:A:H2'	1:AA:616:A:N3	2.17	0.59
1:AA:895:U:C4'	1:AA:896:A:H5'	2.30	0.59
1:AA:974:G:OP2	1:AA:974(A):C:OP2	2.19	0.59
1:AA:1000:A:C8	1:AA:1001:A:C5	2.91	0.59
1:AA:1056:G:H5'	1:AA:1057:A:OP1	2.03	0.59
1:AA:1072:C:C2'	1:AA:1093:G:C5	2.82	0.59
1:AA:1130:U:O2'	1:AA:1131:G:OP1	2.18	0.59
1:AA:1154:G:O2'	1:AA:1155:A:H5'	2.02	0.59
1:AA:1264:G:O6	1:AA:1265:A:C5	2.56	0.59
1:AA:1274:A:C2	1:AA:1302:A:C2	2.91	0.59
1:AA:1363:C:O3'	1:AA:1809:A:C5	2.55	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1366:A:C8	1:AA:1366:A:OP2	2.56	0.59
1:AA:1388:G:H2'	1:AA:1389:G:C8	2.34	0.59
1:AA:1484:G:H2'	1:AA:1485:G:H5''	1.85	0.59
1:AA:1592:C:H2'	1:AA:1593:G:C8	2.33	0.59
1:AA:1980:G:C4	1:AA:1982:C:C5	2.91	0.59
1:AA:1992:G:C8	1:AA:1997:G:C6	2.91	0.59
1:AA:2134:A:H2'	1:AA:2135:A:H5''	1.85	0.59
1:AA:2521:C:C2'	1:AA:2522:U:O5'	2.51	0.59
1:AA:2637:U:OP2	1:AA:2637:U:O4'	2.20	0.59
1:AA:2859:G:H2'	1:AA:2860:A:H8	1.67	0.59
2:AB:4:C:N4	2:AB:5:C:C4	2.71	0.59
2:AB:14:U:OP2	2:AB:70:C:O2'	2.16	0.59
4:AD:23:GLU:CD	4:AD:24:ILE:N	2.61	0.59
4:AD:29:PRO:HB2	4:AD:31:LYS:CD	2.33	0.59
4:AD:63:ARG:HH11	4:AD:63:ARG:HB2	1.67	0.59
5:AE:104:VAL:HG21	5:AE:198:VAL:HG22	1.85	0.59
6:AF:11:VAL:HG22	6:AF:125:LEU:O	2.03	0.59
6:AF:16:GLY:C	6:AF:17:ARG:HD3	2.27	0.59
6:AF:70:THR:O	6:AF:72:ARG:N	2.36	0.59
7:AG:39:ILE:HA	7:AG:157:ILE:HG13	1.85	0.59
7:AG:44:GLY:HA3	7:AG:72:ARG:HG2	1.84	0.59
7:AG:131:TYR:CZ	7:AG:132:ASN:HA	2.38	0.59
7:AG:132:ASN:O	7:AG:133:LEU:HB2	2.03	0.59
7:AG:135:LEU:CD1	7:AG:155:MET:HB2	2.32	0.59
8:AH:6:ARG:HD3	8:AH:69:ARG:CD	2.33	0.59
8:AH:103:LEU:O	8:AH:113:VAL:O	2.21	0.59
8:AH:125:VAL:O	8:AH:127:GLU:N	2.35	0.59
10:AJ:55:VAL:H	10:AJ:56:GLU:HB3	1.68	0.59
10:AJ:83:GLY:O	10:AJ:84:LEU:C	2.45	0.59
11:AK:23:LEU:HD12	11:AK:63:THR:CB	2.32	0.59
11:AK:51:PHE:CD2	11:AK:119:ARG:HB2	2.38	0.59
11:AK:56:ASN:O	11:AK:57:ALA:C	2.46	0.59
12:AL:23:ARG:HD3	12:AL:23:ARG:H	1.66	0.59
13:AM:46:LYS:N	13:AM:46:LYS:CE	2.64	0.59
13:AM:81:GLN:HA	13:AM:86:LYS:CE	2.30	0.59
13:AM:94:GLU:CD	13:AM:94:GLU:C	2.70	0.59
13:AM:113:LYS:CA	13:AM:129:ALA:CB	2.80	0.59
13:AM:123:LEU:O	13:AM:138:LEU:HD23	2.03	0.59
14:AN:12:GLN:NE2	14:AN:12:GLN:C	2.61	0.59
15:AO:53:HIS:C	15:AO:56:LYS:HG3	2.27	0.59
16:AP:8:GLU:O	16:AP:10:ARG:N	2.36	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:15:GLU:HB3	19:AS:16:PRO:CD	2.32	0.59
22:AV:70:SER:OG	22:AV:78:ALA:HA	2.03	0.59
23:AW:95:PRO:CD	23:AW:130:PRO:HA	2.33	0.59
24:AX:31:VAL:HG21	24:AX:67:VAL:HA	1.83	0.59
26:AZ:10:LYS:NZ	26:AZ:12:PRO:HG3	2.09	0.59
30:Ad:34:ARG:HH22	30:Ad:42:LEU:HG	1.67	0.59
33:Ag:3:UNK:CB	33:Ag:140:UNK:CB	2.81	0.59
34:BA:12:U:N3	34:BA:13:U:O4	2.36	0.59
34:BA:55:A:C2	34:BA:56:U:H1'	2.37	0.59
34:BA:87:A:H62	34:BA:88:C:N4	2.00	0.59
34:BA:186(A):C:O2'	53:BX:89:ARG:NH2	2.36	0.59
34:BA:263:A:C3'	34:BA:264:U:H5''	2.33	0.59
34:BA:345:C:H5'	34:BA:346:G:C5	2.38	0.59
34:BA:357:G:P	34:BA:367:U:H2'	2.42	0.59
34:BA:439:A:H1'	34:BA:496:A:N1	2.18	0.59
34:BA:562:C:O2'	45:BP:15:ARG:CD	2.49	0.59
34:BA:875:C:C2	34:BA:876:G:C8	2.91	0.59
34:BA:934:C:O2	34:BA:937:A:N6	2.36	0.59
34:BA:972:C:P	43:BN:57:LYS:HZ2	2.26	0.59
34:BA:1022:G:H2'	34:BA:1022:G:N3	2.18	0.59
34:BA:1065:U:OP2	34:BA:1190:G:N2	2.35	0.59
34:BA:1318:A:C3'	52:BW:37:ARG:HB2	2.08	0.59
34:BA:1394:A:HO2'	34:BA:1395:C:P	2.26	0.59
34:BA:1430:C:C2'	34:BA:1431:C:O5'	2.51	0.59
34:BA:1454:G:N9	34:BA:1455:G:N7	2.50	0.59
35:BF:10:LEU:O	35:BF:11:LEU:O	2.21	0.59
35:BF:80:ILE:HG23	35:BF:212:GLN:HE21	1.68	0.59
35:BF:107:THR:C	35:BF:109:SER:N	2.56	0.59
38:BI:10:MET:HA	38:BI:32:VAL:HG22	1.84	0.59
38:BI:11:ILE:CB	38:BI:31:LEU:HD22	2.31	0.59
39:BJ:30:LEU:HB3	39:BJ:35:ALA:CB	2.33	0.59
39:BJ:67:MET:SD	39:BJ:67:MET:N	2.76	0.59
39:BJ:98:LEU:CD2	51:BV:28:GLU:HA	2.33	0.59
40:BK:38:LEU:CD1	40:BK:41:ARG:HD3	2.32	0.59
40:BK:75:VAL:CG1	40:BK:76:ARG:N	2.66	0.59
40:BK:77:SER:CA	40:BK:156:TRP:HZ2	2.16	0.59
41:BL:35:ILE:HD13	41:BL:118:VAL:HG21	1.85	0.59
41:BL:126:LYS:NZ	41:BL:127:LEU:HB2	2.18	0.59
43:BN:79:ARG:NH2	43:BN:82:ILE:HD12	2.13	0.59
46:BQ:16:ASP:CA	46:BQ:34:LEU:CG	2.69	0.59
46:BQ:91:ARG:HG2	46:BQ:91:ARG:HH11	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:34:TYR:OH	47:BR:41:ARG:HA	2.02	0.59
50:BU:68:ARG:H	50:BU:70:ARG:CZ	2.16	0.59
51:BV:17:SER:HB3	51:BV:54:ARG:NH1	2.18	0.59
55:CA:169:ASN:OD1	55:CA:171:ILE:HD11	2.03	0.59
55:CA:380:LEU:H	55:CA:580:VAL:CG2	2.16	0.59
55:CA:398:GLU:N	55:CA:473:ASP:H	1.99	0.59
1:AA:25:U:H2'	1:AA:25:U:O2	2.03	0.58
1:AA:237:C:H2'	1:AA:238:C:C6	2.36	0.58
1:AA:239:U:H1'	1:AA:259:G:H22	1.67	0.58
1:AA:270(A):A:H8	1:AA:370:G:O4'	1.85	0.58
1:AA:270(X):G:H4'	1:AA:273:G:H5'	1.85	0.58
1:AA:360:G:C2'	1:AA:361:G:C5'	2.81	0.58
1:AA:429:A:H2'	1:AA:430:G:N7	2.18	0.58
1:AA:492:A:OP2	1:AA:492:A:H8	1.86	0.58
1:AA:586:A:C6	1:AA:810:U:H5'	2.37	0.58
1:AA:715:G:N3	48:BS:43:LEU:HD13	2.18	0.58
1:AA:718:A:H5''	1:AA:719:C:H5	1.67	0.58
1:AA:756:C:C2'	1:AA:757:U:H5'	2.30	0.58
1:AA:784:A:O2'	1:AA:785:G:H5'	2.03	0.58
1:AA:906:G:OP1	1:AA:906:G:H4'	2.03	0.58
1:AA:1179:C:C2	1:AA:1180:C:C5	2.90	0.58
1:AA:1343:G:N2	1:AA:1405:U:N1	2.51	0.58
1:AA:1443:G:C2	1:AA:1444:G:C1'	2.85	0.58
1:AA:1453:A:OP2	1:AA:1453:A:O4'	2.21	0.58
1:AA:1742:C:N4	1:AA:1743:G:H8	2.00	0.58
1:AA:1905:C:H2'	1:AA:1930:G:C8	2.37	0.58
1:AA:2052:G:C1'	5:AE:150:VAL:HG23	2.32	0.58
1:AA:2227:A:C5'	4:AD:260:ARG:HD2	2.33	0.58
1:AA:2263:C:C2'	1:AA:2264:C:H5'	2.33	0.58
2:AB:68:C:C3'	2:AB:69:G:H8	2.15	0.58
3:AC:161:ILE:HD13	3:AC:173:ALA:HB1	1.85	0.58
3:AC:225:ASN:C	3:AC:227:HIS:H	2.11	0.58
4:AD:54:ARG:C	4:AD:219:PRO:CD	2.74	0.58
4:AD:84:TYR:CB	4:AD:91:ARG:HG3	2.32	0.58
4:AD:95:LEU:HD13	4:AD:96:HIS:N	2.18	0.58
4:AD:159:ALA:CB	4:AD:202:LYS:HZ1	2.15	0.58
4:AD:260:ARG:HG3	4:AD:260:ARG:NH1	2.17	0.58
6:AF:106:ARG:HG3	6:AF:107:LYS:H	1.67	0.58
6:AF:109:GLY:O	6:AF:111:ALA:N	2.36	0.58
6:AF:124:LEU:HD11	6:AF:200:GLU:OE2	2.03	0.58
6:AF:184:TYR:C	6:AF:186:ILE:N	2.60	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:45:GLU:C	7:AG:47:LYS:N	2.58	0.58
8:AH:103:LEU:CB	8:AH:105:LEU:HD11	2.34	0.58
8:AH:110:SER:O	8:AH:112:PRO:CD	2.46	0.58
13:AM:15:ARG:NH1	13:AM:16:ARG:H	2.01	0.58
13:AM:55:ARG:HH11	13:AM:55:ARG:CA	2.16	0.58
13:AM:107:LYS:CE	13:AM:110:TYR:HB3	2.33	0.58
13:AM:112:LEU:C	13:AM:129:ALA:HB3	2.28	0.58
14:AN:45:GLN:O	14:AN:47:ILE:N	2.36	0.58
14:AN:126:PRO:O	14:AN:127:ILE:HG23	2.01	0.58
19:AS:79:VAL:HB	19:AS:81:TYR:HD1	1.68	0.58
20:AT:18:ARG:HD2	20:AT:75:TYR:HB3	1.85	0.58
21:AU:15:GLU:CB	21:AU:16:LYS:HE2	2.33	0.58
21:AU:26:TYR:CB	21:AU:28:PHE:HZ	2.15	0.58
21:AU:85:PRO:HB2	21:AU:87:GLN:HE21	1.68	0.58
22:AV:37:VAL:HG13	22:AV:39:VAL:CB	2.33	0.58
22:AV:45:VAL:CA	22:AV:57:GLN:HG2	2.32	0.58
22:AV:72:VAL:O	22:AV:73:ARG:HG3	2.03	0.58
32:Af:11:CYS:CB	32:Af:32:HIS:CE1	2.86	0.58
34:BA:427:U:OP1	37:BH:41:GLY:N	2.36	0.58
34:BA:656:C:H2'	34:BA:657:G:H5'	1.85	0.58
34:BA:657:G:H2'	34:BA:658:G:C5'	2.30	0.58
34:BA:894:G:H2'	34:BA:895:G:H8	1.68	0.58
34:BA:908:A:N3	34:BA:909:A:C8	2.71	0.58
34:BA:923:A:C5'	38:BI:21:ALA:HB2	2.32	0.58
34:BA:1126:U:H2'	34:BA:1127:G:C8	2.36	0.58
34:BA:1217:C:OP1	47:BR:8:GLU:OE2	2.21	0.58
34:BA:1244:C:OP2	54:BY:9:ARG:CD	2.49	0.58
34:BA:1297:C:P	46:BQ:44:ARG:HH21	2.25	0.58
34:BA:1376:U:OP1	40:BK:98:SER:HB3	2.03	0.58
34:BA:1419:G:C2'	34:BA:1420:C:H6	2.16	0.58
34:BA:1454:G:N1	34:BA:1455:G:C6	2.71	0.58
34:BA:1506:U:C6	34:BA:1506:U:P	2.96	0.58
35:BF:56:ARG:NH1	35:BF:56:ARG:CB	2.54	0.58
35:BF:79:ASP:O	35:BF:82:ARG:HB3	2.03	0.58
35:BF:149:LEU:HD22	35:BF:153:ARG:HG2	1.85	0.58
36:BG:29:TYR:OH	47:BR:54:PRO:HB2	2.02	0.58
36:BG:52:LEU:CA	36:BG:70:VAL:HG22	2.27	0.58
36:BG:156:ARG:H	36:BG:163:ALA:HB1	1.67	0.58
37:BH:79:PHE:CE1	37:BH:204:ILE:HG23	2.38	0.58
40:BK:71:PRO:HA	40:BK:138:LYS:HE3	1.84	0.58
40:BK:127:ALA:O	40:BK:128:ALA:C	2.46	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:36:LEU:CA	41:BL:39:LEU:HB2	2.32	0.58
42:BM:89:ASN:ND2	42:BM:92:TYR:CE1	2.71	0.58
46:BQ:97:PRO:HG2	46:BQ:101:GLN:CG	2.33	0.58
48:BS:70:LEU:HD11	48:BS:77:ARG:HH21	1.67	0.58
51:BV:62:GLU:O	51:BV:63:GLN:C	2.45	0.58
54:BY:9:ARG:HD2	54:BY:9:ARG:N	2.16	0.58
55:CA:18:LYS:CA	57:CA:701:GCP:O1B	2.51	0.58
55:CA:164:TYR:CD1	55:CA:175:ASP:HB2	2.38	0.58
55:CA:169:ASN:HA	55:CA:171:ILE:CD1	2.33	0.58
55:CA:212:LEU:HD11	55:CA:220:VAL:HG11	1.85	0.58
55:CA:260:LEU:HD22	55:CA:260:LEU:H	1.68	0.58
55:CA:363:GLU:OE2	55:CA:453:SER:OG	2.14	0.58
55:CA:401:GLU:HG2	55:CA:468:THR:HG22	1.83	0.58
55:CA:407:VAL:HA	55:CA:408:GLU:C	2.27	0.58
1:AA:250:G:H5'	31:Ae:8:LYS:HG2	1.84	0.58
1:AA:270(B):A:O2'	1:AA:270(C):C:H6	1.86	0.58
1:AA:407:G:H2'	1:AA:408:G:N7	2.17	0.58
1:AA:414:C:H1'	1:AA:1864:U:O2'	2.03	0.58
1:AA:637:A:H4'	1:AA:638:G:O4'	2.03	0.58
1:AA:728:G:C1'	1:AA:729:G:C8	2.86	0.58
1:AA:783:A:H3'	4:AD:227:ASN:OD1	2.04	0.58
1:AA:894:C:HO2'	1:AA:895:U:H5'	1.67	0.58
1:AA:923:C:H5'	24:AX:26:TYR:CD2	2.38	0.58
1:AA:957:A:O3'	1:AA:958:U:C4'	2.50	0.58
1:AA:972:G:N7	1:AA:973:A:C8	2.71	0.58
1:AA:1000:A:C2	1:AA:1155:A:C4	2.91	0.58
1:AA:1057:A:N6	1:AA:1086:A:H2'	2.18	0.58
1:AA:1057:A:H2'	1:AA:1058:G:H8	1.67	0.58
1:AA:1135:C:H2'	1:AA:1136:G:C8	2.32	0.58
1:AA:1200:C:C2	1:AA:1201:C:C5	2.91	0.58
1:AA:1671:U:O2	1:AA:1673:U:H5'	2.03	0.58
1:AA:1771:C:H2'	1:AA:1772:G:C8	2.39	0.58
1:AA:1806:C:N3	1:AA:1807:G:C8	2.70	0.58
1:AA:1977:A:N3	1:AA:1978:A:C8	2.72	0.58
1:AA:2047:U:O2'	1:AA:2048:G:C5'	2.51	0.58
1:AA:2144:U:OP2	1:AA:2144:U:C6	2.56	0.58
1:AA:2278:A:N1	1:AA:2279:G:C5	2.71	0.58
1:AA:2291:U:H5'	1:AA:2380:C:O2	2.02	0.58
1:AA:2327:A:C2'	1:AA:2328:A:C8	2.73	0.58
1:AA:2785:C:H2'	1:AA:2786:U:C6	2.38	0.58
1:AA:2879:C:H5'	1:AA:2880:C:OP1	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:9:G:C5	2:AB:112:G:C6	2.91	0.58
2:AB:105:G:O2'	2:AB:106:G:H5'	2.02	0.58
4:AD:21:PHE:HB3	4:AD:205:VAL:HG21	1.84	0.58
4:AD:31:LYS:HD2	4:AD:31:LYS:H	1.67	0.58
4:AD:56:GLY:N	4:AD:217:ARG:HD2	2.08	0.58
4:AD:111:LEU:CB	4:AD:115:GLN:HE22	2.13	0.58
4:AD:157:ARG:O	4:AD:158:ALA:C	2.45	0.58
4:AD:158:ALA:C	4:AD:160:GLY:N	2.57	0.58
6:AF:39:TRP:CZ3	6:AF:43:LYS:HB2	2.38	0.58
6:AF:181:LEU:HD13	6:AF:181:LEU:H	1.67	0.58
7:AG:36:LYS:NZ	7:AG:38:VAL:HG13	2.17	0.58
7:AG:40:ASN:HD22	7:AG:41:GLN:N	2.00	0.58
7:AG:162:THR:O	7:AG:164:GLU:N	2.31	0.58
8:AH:95:ARG:HB2	8:AH:106:THR:HB	1.84	0.58
8:AH:139:GLN:O	8:AH:143:GLN:HG3	2.03	0.58
11:AK:4:TYR:OH	18:AR:101:ARG:NH1	2.36	0.58
11:AK:23:LEU:HD23	11:AK:60:ILE:HG22	1.85	0.58
11:AK:27:ALA:O	11:AK:29:LYS:N	2.36	0.58
11:AK:74:ARG:C	11:AK:76:SER:N	2.54	0.58
11:AK:95:PRO:HG2	11:AK:124:ALA:CB	2.33	0.58
11:AK:118:LYS:O	11:AK:121:LYS:HE3	2.03	0.58
12:AL:10:VAL:N	12:AL:17:ARG:O	2.36	0.58
12:AL:21:CYS:SG	12:AL:40:VAL:O	2.62	0.58
13:AM:23:PRO:HB2	13:AM:29:LYS:H	1.65	0.58
13:AM:49:ARG:CA	13:AM:52:GLU:HG2	2.33	0.58
14:AN:43:THR:O	14:AN:47:ILE:CG1	2.49	0.58
14:AN:137:TYR:C	14:AN:138:ASP:CG	2.70	0.58
15:AO:24:GLN:O	15:AO:25:ALA:C	2.44	0.58
15:AO:26:LYS:HE2	15:AO:70:LEU:CA	2.32	0.58
15:AO:87:TYR:CE1	15:AO:118:GLU:OE2	2.57	0.58
16:AP:49:VAL:HG22	16:AP:76:LYS:HZ1	1.68	0.58
17:AQ:52:ILE:CA	17:AQ:66:VAL:CG1	2.80	0.58
18:AR:35:ALA:O	18:AR:36:ARG:C	2.44	0.58
18:AR:89:GLU:OE2	19:AS:52:VAL:HB	2.04	0.58
18:AR:110:VAL:O	18:AR:111:GLU:C	2.47	0.58
19:AS:39:LEU:HG	19:AS:58:VAL:C	2.29	0.58
19:AS:69:LYS:HA	19:AS:92:THR:HB	1.84	0.58
21:AU:63:LYS:NZ	21:AU:72:LYS:HE2	2.18	0.58
23:AW:96:VAL:CG1	23:AW:128:VAL:HG22	2.32	0.58
25:AY:20:VAL:CG2	25:AY:24:LYS:HE3	2.32	0.58
26:AZ:23:LEU:HA	26:AZ:28:LEU:HD12	1.83	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:7:PRO:O	27:Aa:60:GLN:OE1	2.21	0.58
27:Aa:37:SER:OG	27:Aa:38:LYS:N	2.36	0.58
34:BA:7:G:H1'	34:BA:298:A:N9	2.17	0.58
34:BA:119:A:O2'	34:BA:120:A:OP2	2.13	0.58
34:BA:191:G:O2'	53:BX:102:GLY:O	2.21	0.58
34:BA:474:G:O5'	49:BT:81:ARG:HG3	2.02	0.58
34:BA:619:U:H3	37:BH:135:LEU:HD21	1.68	0.58
34:BA:757:U:H1'	34:BA:879:C:O2'	2.03	0.58
34:BA:859:A:O2'	34:BA:860:A:C5'	2.50	0.58
34:BA:866:C:C6	34:BA:867:G:C1'	2.86	0.58
34:BA:878:G:H5'	41:BL:89:PRO:HG2	1.85	0.58
34:BA:944:G:C2'	34:BA:945:G:H5''	2.34	0.58
34:BA:944:G:N2	34:BA:1339:A:H62	1.86	0.58
34:BA:1031:G:H2'	34:BA:1032:A:C8	2.37	0.58
34:BA:1209:C:C2'	34:BA:1210:C:H5'	2.32	0.58
34:BA:1411:C:H2'	34:BA:1412:C:H6	1.68	0.58
34:BA:1431:C:O2	34:BA:1432:G:O4'	2.22	0.58
34:BA:1449:C:H2'	34:BA:1450:U:C5'	2.32	0.58
35:BF:17:PHE:C	35:BF:42:ILE:HG22	2.27	0.58
35:BF:52:GLU:HG2	35:BF:53:ARG:N	2.16	0.58
35:BF:135:GLN:C	35:BF:139:LYS:NZ	2.59	0.58
35:BF:193:ASP:O	35:BF:194:PRO:C	2.46	0.58
36:BG:35:GLU:CA	36:BG:38:ARG:HG2	2.34	0.58
36:BG:91:LEU:CD1	36:BG:99:VAL:H	2.14	0.58
36:BG:126:ARG:O	36:BG:127:ARG:HB2	2.02	0.58
36:BG:157:ILE:O	36:BG:157:ILE:HG22	2.00	0.58
37:BH:50:ARG:CG	37:BH:51:PRO:HD2	2.23	0.58
38:BI:12:LEU:HD13	38:BI:12:LEU:O	2.03	0.58
38:BI:72:GLN:NE2	38:BI:144:THR:HA	2.17	0.58
38:BI:81:GLU:CD	38:BI:81:GLU:H	2.09	0.58
38:BI:122:GLU:HG2	38:BI:126:ARG:HG3	1.85	0.58
38:BI:136:MET:HA	38:BI:139:LEU:HD12	1.84	0.58
39:BJ:80:ARG:O	39:BJ:81:ILE:C	2.46	0.58
41:BL:6:ILE:CD1	41:BL:7:ALA:N	2.66	0.58
41:BL:11:THR:C	41:BL:13:ILE:N	2.56	0.58
41:BL:18:ARG:NH1	41:BL:18:ARG:N	2.52	0.58
41:BL:45:ILE:HG13	41:BL:61:VAL:HG13	1.85	0.58
43:BN:48:THR:HA	43:BN:62:HIS:HB3	1.84	0.58
48:BS:75:PRO:O	48:BS:79:ARG:N	2.31	0.58
50:BU:61:GLU:HA	50:BU:71:PHE:CD2	2.37	0.58
50:BU:66:SER:OG	50:BU:67:LYS:N	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:62:GLU:O	51:BV:66:LEU:CG	2.42	0.58
52:BW:18:LYS:HG2	52:BW:31:ILE:HG21	1.85	0.58
53:BX:20:LEU:O	53:BX:23:ARG:HD3	2.03	0.58
55:CA:31:THR:HB	55:CA:32:PHE:HD1	1.68	0.58
55:CA:102:PHE:CE2	55:CA:134:GLY:N	2.71	0.58
55:CA:102:PHE:N	55:CA:135:ALA:HB1	2.18	0.58
55:CA:102:PHE:HB2	55:CA:135:ALA:HB2	1.84	0.58
55:CA:383:SER:H	55:CA:384:ARG:CG	2.14	0.58
1:AA:71:A:O2'	1:AA:72:U:C5'	2.51	0.58
1:AA:295:G:C1'	1:AA:345:A:C2	2.86	0.58
1:AA:344:G:H2'	1:AA:345:A:C1'	2.33	0.58
1:AA:482:A:N3	1:AA:482:A:C2'	2.64	0.58
1:AA:500:G:H2'	1:AA:501:A:C5'	2.33	0.58
1:AA:515:A:C8	1:AA:515:A:C3'	2.86	0.58
1:AA:568:U:H2'	1:AA:570:G:N7	2.19	0.58
1:AA:594:U:C5'	31:Ae:61:LEU:HD13	2.33	0.58
1:AA:605:C:H2'	1:AA:606:U:C6	2.38	0.58
1:AA:724:U:H2'	1:AA:725:G:C5'	2.33	0.58
1:AA:783:A:N6	1:AA:785:G:C8	2.72	0.58
1:AA:847:U:N3	1:AA:933:A:C2	2.65	0.58
1:AA:942:G:C6	1:AA:943:U:O4	2.57	0.58
1:AA:1034:G:C2	1:AA:1122:G:C4	2.90	0.58
1:AA:1069:A:C5'	1:AA:1070:A:C8	2.86	0.58
1:AA:1248:G:N1	6:AF:52:LYS:NZ	2.50	0.58
1:AA:1267:U:OP2	1:AA:2012:G:O6	2.21	0.58
1:AA:1444(A):A:C8	1:AA:1460:A:H2'	2.38	0.58
1:AA:1530:G:H22	1:AA:1541:U:C2'	2.16	0.58
1:AA:1604:C:O2	1:AA:1605:C:C5	2.55	0.58
1:AA:1612:C:C2	1:AA:1620:G:N2	2.71	0.58
1:AA:1973:G:H2'	1:AA:1974:C:C6	2.37	0.58
1:AA:2135:A:C5'	1:AA:2136:C:C5	2.86	0.58
1:AA:2171:A:O2'	1:AA:2172:U:C6	2.56	0.58
1:AA:2187:G:O2'	1:AA:2188:C:H5'	2.02	0.58
1:AA:2318:G:H8	1:AA:2318:G:P	2.25	0.58
1:AA:2481:G:HO2'	1:AA:2482:G:C5'	2.17	0.58
1:AA:2484:G:N3	14:AN:124:LYS:NZ	2.52	0.58
1:AA:2495:G:H5''	14:AN:82:ARG:HA	1.84	0.58
1:AA:2629:A:C2	1:AA:2801:A:C2	2.91	0.58
1:AA:2716:U:H2'	1:AA:2717:G:H8	1.68	0.58
1:AA:2736:G:N2	1:AA:2769:C:H1'	2.18	0.58
1:AA:2772:C:H2'	1:AA:2772:C:O2	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2884:U:H3	28:Ab:40:LYS:HZ3	1.51	0.58
2:AB:61:G:H2'	2:AB:62:C:C6	2.38	0.58
3:AC:32:LEU:HD13	3:AC:220:PRO:CB	2.33	0.58
3:AC:195:ALA:O	3:AC:199:HIS:ND1	2.30	0.58
4:AD:117:VAL:O	4:AD:118:VAL:HG22	2.03	0.58
4:AD:136:ILE:CB	4:AD:168:ARG:NH2	2.59	0.58
4:AD:223:GLY:O	4:AD:225:ALA:N	2.36	0.58
5:AE:37:ARG:HB2	5:AE:40:GLU:HB2	1.83	0.58
5:AE:111:ARG:HB2	5:AE:160:TYR:O	2.03	0.58
6:AF:194:MET:HE3	6:AF:200:GLU:HG2	1.85	0.58
7:AG:44:GLY:N	7:AG:88:ILE:HG21	2.17	0.58
7:AG:56:ALA:CB	7:AG:68:PRO:HG2	2.33	0.58
8:AH:76:VAL:O	8:AH:79:VAL:HG22	2.02	0.58
9:AI:135:ARG:C	9:AI:137:GLU:H	2.10	0.58
10:AJ:71:THR:HB	10:AJ:72:PRO:HD3	1.83	0.58
14:AN:114:ALA:O	14:AN:115:MET:C	2.45	0.58
18:AR:92:ARG:C	18:AR:93:LYS:HZ3	2.11	0.58
19:AS:5:VAL:HG13	19:AS:39:LEU:HA	1.83	0.58
20:AT:43:GLY:O	20:AT:47:VAL:CG2	2.51	0.58
21:AU:85:PRO:C	21:AU:87:GLN:HE21	2.11	0.58
26:AZ:10:LYS:HG3	26:AZ:31:LEU:HD21	1.85	0.58
27:Aa:23:GLU:O	27:Aa:25:TYR:N	2.32	0.58
30:Ad:14:LYS:O	30:Ad:15:THR:C	2.45	0.58
31:Ae:25:MET:C	31:Ae:27:THR:N	2.58	0.58
33:Ag:316:UNK:C	33:Ag:318:UNK:H	2.16	0.58
34:BA:5:U:O2'	34:BA:6:G:OP2	2.22	0.58
34:BA:127:G:HO2'	50:BU:2:PRO:N	2.02	0.58
34:BA:189:U:C2	50:BU:72:ARG:NH1	2.70	0.58
34:BA:259:G:H5''	53:BX:83:ARG:NH2	2.19	0.58
34:BA:278:G:H1'	34:BA:282:A:H1'	1.85	0.58
34:BA:370:C:H2'	34:BA:371:G:H8	1.67	0.58
34:BA:376:G:H2'	34:BA:377:G:C8	2.25	0.58
34:BA:445:G:O2'	34:BA:446:G:H5'	2.03	0.58
34:BA:552:U:C2'	34:BA:553:A:H5'	2.33	0.58
34:BA:750:G:H1'	48:BS:23:GLY:N	2.18	0.58
34:BA:859:A:H2'	34:BA:860:A:C5'	2.33	0.58
34:BA:1234:C:C4'	34:BA:1364:U:H1'	2.34	0.58
34:BA:1253:G:H2'	34:BA:1254:C:O4'	2.03	0.58
34:BA:1253:G:N3	34:BA:1355:G:O2'	2.36	0.58
34:BA:1317:C:C4	34:BA:1318:A:C6	2.89	0.58
34:BA:1389:C:H2'	34:BA:1390:U:O4'	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:33:TYR:HB2	35:BF:43:ASP:HB2	1.84	0.58
36:BG:157:ILE:HG13	36:BG:164:ARG:CB	2.33	0.58
38:BI:43:LEU:O	38:BI:65:ASN:ND2	2.36	0.58
38:BI:140:ARG:HB3	38:BI:140:ARG:HH11	1.67	0.58
39:BJ:95:GLU:HA	51:BV:32:ARG:HB3	1.85	0.58
40:BK:89:MET:N	40:BK:89:MET:SD	2.76	0.58
41:BL:46:LYS:HE3	41:BL:64:LYS:CG	2.27	0.58
42:BM:34:ASN:OD1	42:BM:43:ALA:CB	2.51	0.58
42:BM:37:PHE:HA	42:BM:40:LEU:HD12	1.84	0.58
42:BM:45:ALA:HB3	42:BM:74:ILE:HG22	1.85	0.58
44:BO:67:ASP:N	44:BO:70:LYS:HZ2	1.99	0.58
44:BO:86:GLY:CA	44:BO:112:THR:HG23	2.33	0.58
45:BP:60:LEU:HD11	45:BP:64:TYR:HB3	1.85	0.58
46:BQ:20:THR:HA	46:BQ:25:ILE:HG22	1.86	0.58
48:BS:42:HIS:O	48:BS:43:LEU:C	2.45	0.58
51:BV:26:LEU:HD22	51:BV:39:VAL:HG22	1.85	0.58
51:BV:39:VAL:O	51:BV:42:ARG:HB2	2.03	0.58
52:BW:9:VAL:HG12	52:BW:44:MET:SD	2.43	0.58
55:CA:5:LEU:C	55:CA:68:TYR:O	2.44	0.58
55:CA:10:ILE:HD12	55:CA:21:LEU:HB2	1.85	0.58
55:CA:213:ASP:OD1	55:CA:223:ILE:HD11	2.03	0.58
55:CA:379:GLU:HG2	55:CA:581:THR:HB	1.77	0.58
55:CA:380:LEU:H	55:CA:580:VAL:HG23	1.67	0.58
55:CA:382:VAL:CG2	55:CA:578:VAL:HG11	2.33	0.58
55:CA:443:ILE:HD13	55:CA:447:GLY:O	2.03	0.58
1:AA:67:U:H2'	1:AA:68:G:H8	1.67	0.58
1:AA:249:C:H5'	1:AA:2394:C:O2'	2.04	0.58
1:AA:386:G:H4'	1:AA:387:U:C6	2.38	0.58
1:AA:559:G:O2'	1:AA:560:C:O5'	2.16	0.58
1:AA:754:C:H2'	1:AA:755:C:H5'	1.85	0.58
1:AA:896:A:C2	1:AA:897:C:N1	2.71	0.58
1:AA:931:G:C4	26:AZ:24:LYS:HE3	2.38	0.58
1:AA:1024:G:C4	1:AA:1025:G:C8	2.91	0.58
1:AA:1064:C:H3'	1:AA:1065:U:C6	2.39	0.58
1:AA:1068:G:O4'	1:AA:1096:A:C4'	2.50	0.58
1:AA:1101:U:H2'	1:AA:1102:C:C6	2.38	0.58
1:AA:1181:C:H2'	1:AA:1182:A:C8	2.38	0.58
1:AA:1275:A:N6	1:AA:1295:C:O2'	2.35	0.58
1:AA:1398:C:C2	1:AA:1399:C:C5	2.91	0.58
1:AA:1652:A:H62	1:AA:1653:G:H21	1.50	0.58
1:AA:1695:G:N2	1:AA:1696:G:C8	2.72	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1817:G:OP1	4:AD:88:ARG:NH1	2.30	0.58
1:AA:1944:U:H2'	1:AA:1945:G:OP1	2.02	0.58
1:AA:1956:U:C2	1:AA:1957:C:C5	2.92	0.58
1:AA:2158:A:O2'	1:AA:2159:G:OP2	2.21	0.58
1:AA:2199:A:OP2	1:AA:2205:C:H5	1.85	0.58
1:AA:2355:C:C4	1:AA:2356:C:C4	2.91	0.58
1:AA:2509:G:N2	1:AA:2510:C:H1'	2.18	0.58
1:AA:2623:G:H21	28:Ab:22:HIS:HE1	1.46	0.58
1:AA:2638:G:C8	1:AA:2775:A:N1	2.71	0.58
2:AB:67:G:C4	2:AB:68:C:C5	2.92	0.58
3:AC:39:GLU:O	3:AC:178:ALA:HB2	2.02	0.58
4:AD:50:THR:C	4:AD:51:VAL:CG2	2.76	0.58
4:AD:73:VAL:HG12	4:AD:120:GLY:CA	2.33	0.58
4:AD:147:LEU:HD23	4:AD:154:LYS:HG3	1.84	0.58
5:AE:53:PRO:HD2	5:AE:75:VAL:HG13	1.85	0.58
6:AF:7:TYR:H	6:AF:20:LEU:CD2	2.15	0.58
6:AF:74:ARG:CZ	6:AF:75:HIS:CA	2.81	0.58
6:AF:97:TYR:C	6:AF:98:SER:O	2.44	0.58
6:AF:116:ASP:HA	6:AF:119:ARG:CG	2.33	0.58
7:AG:74:LYS:CD	7:AG:87:PRO:HG3	2.31	0.58
8:AH:11:VAL:HG13	8:AH:15:VAL:HG12	1.85	0.58
8:AH:26:VAL:CB	8:AH:75:ALA:HB1	2.33	0.58
8:AH:156:ALA:HB1	8:AH:172:LYS:NZ	2.17	0.58
11:AK:66:LYS:CA	11:AK:69:GLN:OE1	2.52	0.58
12:AL:23:ARG:HD3	12:AL:23:ARG:N	2.18	0.58
12:AL:86:ILE:HD13	12:AL:90:GLN:HG3	1.86	0.58
14:AN:116:GLU:HA	14:AN:119:ARG:CG	2.33	0.58
17:AQ:103:ARG:O	17:AQ:107:ASP:CG	2.46	0.58
18:AR:81:HIS:HB3	18:AR:117:GLN:OE1	2.01	0.58
22:AV:1:MET:HA	22:AV:33:LYS:HG3	1.84	0.58
23:AW:98:MET:HG3	23:AW:133:ILE:CG2	2.24	0.58
24:AX:28:GLY:O	24:AX:29:GLN:C	2.46	0.58
29:Ac:20:ASN:ND2	29:Ac:42:TRP:CD1	2.66	0.58
30:Ad:5:TRP:HZ3	30:Ad:12:ARG:HH11	1.50	0.58
30:Ad:25:PRO:HD3	30:Ad:28:ARG:HH21	1.69	0.58
32:Af:1:MET:O	32:Af:33:LYS:O	2.22	0.58
34:BA:21:G:C8	34:BA:22:G:N7	2.71	0.58
34:BA:64:G:H5'	34:BA:66:G:OP1	2.02	0.58
34:BA:133:U:H5'	34:BA:134:A:P	2.44	0.58
34:BA:221:C:H2'	34:BA:222:U:C6	2.37	0.58
34:BA:230:G:N2	34:BA:231:G:N3	2.51	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:321:A:H5''	34:BA:1436:U:O4'	2.02	0.58
34:BA:429:U:H5'	34:BA:430:A:OP1	2.03	0.58
34:BA:474:G:OP1	49:BT:80:PHE:O	2.21	0.58
34:BA:534:U:H5''	34:BA:535:A:OP2	2.03	0.58
34:BA:731:G:O2'	34:BA:732:C:C5'	2.52	0.58
34:BA:748:C:O2'	34:BA:749:C:C6	2.54	0.58
34:BA:764:C:C4	34:BA:765:G:O6	2.56	0.58
34:BA:812:C:O4'	34:BA:813:U:C5	2.55	0.58
34:BA:818:G:H3'	34:BA:819:A:H5''	1.84	0.58
34:BA:896:C:C2	34:BA:897:C:C5	2.90	0.58
34:BA:951:G:O2'	34:BA:972:C:H5	1.87	0.58
34:BA:953:G:C6	34:BA:1229:A:C6	2.91	0.58
34:BA:955:U:C1'	34:BA:1227:A:H61	2.03	0.58
34:BA:1129:C:C5	34:BA:1139:G:N7	2.71	0.58
34:BA:1193:G:C6	34:BA:1194:U:C4	2.91	0.58
34:BA:1270:C:OP1	54:BY:24:ARG:NH2	2.37	0.58
34:BA:1291:G:N2	34:BA:1292:U:C2	2.71	0.58
34:BA:1376:U:O2	34:BA:1377:A:N6	2.35	0.58
34:BA:1399:C:H4'	34:BA:1400:C:O5'	2.03	0.58
34:BA:1433:A:C8	34:BA:1468:A:N6	2.71	0.58
35:BF:215:LEU:O	35:BF:215:LEU:HD13	2.03	0.58
37:BH:52:SER:O	37:BH:55:ALA:N	2.36	0.58
37:BH:98:GLU:CD	37:BH:107:ARG:HG3	2.28	0.58
37:BH:170:VAL:HG12	37:BH:171:GLY:N	2.17	0.58
37:BH:187:ARG:CZ	37:BH:188:LEU:HG	2.31	0.58
38:BI:76:ILE:HG21	38:BI:142:LEU:CD1	2.33	0.58
38:BI:78:HIS:CG	41:BL:107:LEU:HD21	2.39	0.58
38:BI:107:ARG:CZ	38:BI:107:ARG:HB2	2.33	0.58
39:BJ:60:PHE:N	39:BJ:60:PHE:HD1	2.01	0.58
39:BJ:64:GLN:C	39:BJ:65:VAL:HG12	2.27	0.58
39:BJ:76:ALA:C	39:BJ:79:LEU:HG	2.28	0.58
41:BL:7:ALA:O	41:BL:8:ASP:C	2.46	0.58
42:BM:67:GLY:C	42:BM:73:GLN:HE21	2.11	0.58
47:BR:23:ARG:NE	47:BR:30:ALA:HB2	2.17	0.58
48:BS:34:LEU:CD1	48:BS:35:ARG:N	2.67	0.58
48:BS:71:GLN:HG3	48:BS:75:PRO:CB	2.20	0.58
48:BS:71:GLN:N	48:BS:78:TYR:CD1	2.72	0.58
49:BT:20:VAL:HA	49:BT:36:ILE:HG13	1.85	0.58
49:BT:56:ALA:O	49:BT:60:LEU:CG	2.50	0.58
50:BU:104:LYS:CD	50:BU:105:ALA:H	2.15	0.58
55:CA:373:MET:HE2	55:CA:380:LEU:HD21	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:470:SER:O	55:CA:471:HIS:HB3	2.01	0.58
55:CA:493:GLN:HG2	55:CA:519:TYR:HB2	1.85	0.58
1:AA:77:C:H2'	1:AA:78:A:H8	1.68	0.58
1:AA:82:G:N2	1:AA:83:G:H22	2.01	0.58
1:AA:150:C:O2	1:AA:151:C:C5	2.56	0.58
1:AA:223:A:C5	1:AA:408:G:C1'	2.87	0.58
1:AA:233:A:H2'	1:AA:234:C:O5'	2.03	0.58
1:AA:252:G:C2	1:AA:253:C:C6	2.92	0.58
1:AA:270(R):G:N2	1:AA:270(S):G:N3	2.52	0.58
1:AA:292:C:C2'	1:AA:293:U:N3	2.66	0.58
1:AA:424:G:H21	1:AA:425:G:H1'	1.67	0.58
1:AA:458:G:C8	30:Ad:38:GLY:O	2.57	0.58
1:AA:510:C:OP1	1:AA:512:G:N2	2.36	0.58
1:AA:565:C:OP2	19:AS:80:GLN:O	2.22	0.58
1:AA:573:G:H2'	1:AA:574:C:C5'	2.33	0.58
1:AA:641:C:H5	1:AA:642:G:N3	2.02	0.58
1:AA:649:G:N3	1:AA:649:G:H2'	2.18	0.58
1:AA:674:G:C2	1:AA:807:U:O4	2.57	0.58
1:AA:689:A:H2'	1:AA:690:G:C5'	2.34	0.58
1:AA:751:A:H4'	20:AT:90:ARG:CZ	2.34	0.58
1:AA:771:G:H2'	1:AA:772:C:C6	2.38	0.58
1:AA:920:G:C2	1:AA:921:G:C8	2.91	0.58
1:AA:942:G:H3'	13:AM:32:THR:HG22	1.86	0.58
1:AA:966:G:C6	1:AA:967:C:N4	2.71	0.58
1:AA:1046:A:N7	9:AI:6:ASN:HA	2.18	0.58
1:AA:1048:A:C8	1:AA:1110:G:O2'	2.55	0.58
1:AA:1051:G:H3'	1:AA:1052:C:C5'	2.34	0.58
1:AA:1104:C:H2'	1:AA:1105:U:C6	2.38	0.58
1:AA:1199:U:OP2	1:AA:1199:U:H6	1.86	0.58
1:AA:1248:G:OP1	18:AR:2:PRO:N	2.35	0.58
1:AA:1313:U:C5	1:AA:1313:U:OP2	2.57	0.58
1:AA:1323:U:O2'	1:AA:1324:G:OP1	2.15	0.58
1:AA:1366:A:C2	1:AA:1367:A:C4	2.91	0.58
1:AA:1429:G:N2	1:AA:1565:C:O2	2.37	0.58
1:AA:1439:A:N7	1:AA:1440:G:C4	2.71	0.58
1:AA:1620:G:C5	1:AA:1621:U:C4	2.92	0.58
1:AA:1703:G:C2	1:AA:1704:G:N9	2.72	0.58
1:AA:1759:A:P	1:AA:1759:A:H8	2.26	0.58
1:AA:1838:C:O2	1:AA:1838:C:C2'	2.52	0.58
1:AA:1975:G:C2'	1:AA:1976:U:O5'	2.52	0.58
1:AA:2116:G:C5'	1:AA:2117:A:OP2	2.48	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2278:A:N7	24:AX:14:ARG:CG	2.66	0.58
1:AA:2520:C:O2'	1:AA:2521:C:C5'	2.50	0.58
1:AA:2545:G:C2'	1:AA:2546:U:H5'	2.33	0.58
1:AA:2547:U:H2'	1:AA:2548:G:C5'	2.34	0.58
1:AA:2603:G:H2'	1:AA:2604:U:O4'	2.03	0.58
1:AA:2619:C:H5''	5:AE:152:LYS:CB	2.33	0.58
1:AA:2652:C:C5	1:AA:2669:G:C2	2.72	0.58
1:AA:2777:G:C8	1:AA:2777:G:C3'	2.86	0.58
1:AA:2844:G:H3'	1:AA:2845:G:C8	2.38	0.58
2:AB:33:G:H2'	2:AB:34:U:C5	2.38	0.58
2:AB:52:A:H2'	2:AB:53:A:H5'	1.85	0.58
2:AB:99:A:C4	2:AB:100:G:C8	2.91	0.58
4:AD:16:MET:O	4:AD:19:ALA:HB3	2.03	0.58
4:AD:55:GLY:H	4:AD:219:PRO:HD2	1.62	0.58
4:AD:206:LEU:O	4:AD:206:LEU:CD2	2.51	0.58
6:AF:123:LEU:HG	6:AF:191:ARG:HD3	1.86	0.58
6:AF:141:ALA:O	6:AF:142:TRP:C	2.47	0.58
7:AG:19:LEU:HA	7:AG:22:ARG:HB3	1.85	0.58
8:AH:124:GLU:HB2	8:AH:132:ARG:NE	2.19	0.58
10:AJ:112:MET:SD	10:AJ:126:MET:SD	3.02	0.58
11:AK:28:THR:C	11:AK:31:ALA:HB3	2.26	0.58
13:AM:16:ARG:HD3	13:AM:19:VAL:H	1.66	0.58
13:AM:89:ALA:O	13:AM:125:VAL:HG22	2.02	0.58
13:AM:96:THR:CG2	13:AM:99:LEU:HD12	2.33	0.58
14:AN:14:ARG:O	14:AN:73:PRO:HG2	2.04	0.58
14:AN:27:VAL:CG2	14:AN:28:ALA:N	2.53	0.58
14:AN:80:GLU:N	14:AN:80:GLU:OE1	2.36	0.58
15:AO:25:ALA:HA	15:AO:48:VAL:CG2	2.34	0.58
19:AS:1:MET:O	19:AS:3:ALA:N	2.36	0.58
21:AU:5:TYR:HB3	25:AY:24:LYS:NZ	2.18	0.58
21:AU:62:LYS:HA	21:AU:72:LYS:HB3	1.85	0.58
21:AU:90:GLU:O	21:AU:93:GLU:HG3	2.02	0.58
23:AW:7:ALA:HB1	23:AW:9:TYR:O	2.02	0.58
23:AW:144:LEU:CA	23:AW:174:VAL:HG11	2.33	0.58
24:AX:63:VAL:O	24:AX:81:VAL:HG11	2.04	0.58
28:Ab:19:ARG:NH2	28:Ab:20:ARG:HH21	2.02	0.58
30:Ad:42:LEU:C	30:Ad:44:PRO:CD	2.77	0.58
34:BA:22:G:C2'	34:BA:23:C:O4'	2.52	0.58
34:BA:135:C:C2	49:BT:1:MET:HG2	2.38	0.58
34:BA:283:C:O2	34:BA:283:C:C2'	2.51	0.58
34:BA:375:U:C4'	49:BT:17:TYR:CE2	2.87	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:539:A:OP1	45:BP:114:LYS:HE2	2.03	0.58
34:BA:1005:A:C3'	34:BA:1006:C:H6	2.09	0.58
34:BA:1057:G:C4'	36:BG:197:GLY:H	2.16	0.58
34:BA:1181:G:O3'	34:BA:1184:G:H5'	2.04	0.58
34:BA:1405:G:C6	34:BA:1497:G:O6	2.56	0.58
35:BF:25:ASN:HD21	35:BF:27:LYS:HG3	1.68	0.58
35:BF:58:ILE:O	35:BF:61:LEU:N	2.36	0.58
35:BF:58:ILE:HG22	35:BF:221:LEU:HD12	1.85	0.58
36:BG:44:GLU:HA	36:BG:52:LEU:CD1	2.33	0.58
37:BH:58:LEU:CD1	37:BH:59:ARG:NH1	2.64	0.58
37:BH:59:ARG:HH11	37:BH:59:ARG:CA	2.14	0.58
37:BH:169:LYS:CG	37:BH:176:LEU:HD21	2.34	0.58
37:BH:170:VAL:HG12	37:BH:171:GLY:H	1.68	0.58
38:BI:100:VAL:C	38:BI:101:ILE:HD13	2.27	0.58
38:BI:114:GLY:O	38:BI:115:VAL:CG1	2.51	0.58
40:BK:50:ILE:O	40:BK:54:THR:O	2.20	0.58
41:BL:79:VAL:O	41:BL:81:HIS:N	2.36	0.58
43:BN:89:ASP:C	43:BN:90:LEU:HG	2.28	0.58
44:BO:26:ASN:O	44:BO:27:ASN:HB2	2.02	0.58
44:BO:29:ILE:HA	44:BO:44:SER:OG	2.03	0.58
46:BQ:37:THR:HA	46:BQ:56:LEU:CB	2.17	0.58
46:BQ:84:ILE:C	46:BQ:86:CYS:H	2.12	0.58
46:BQ:84:ILE:HD11	46:BQ:86:CYS:HB3	1.85	0.58
48:BS:36:ILE:HD11	48:BS:60:VAL:CG2	2.32	0.58
48:BS:36:ILE:O	48:BS:40:SER:OG	2.20	0.58
50:BU:7:THR:HG22	50:BU:8:GLY:N	2.18	0.58
50:BU:7:THR:HG22	50:BU:56:VAL:HG12	1.83	0.58
51:BV:47:THR:H	51:BV:49:LYS:NZ	2.00	0.58
51:BV:75:ILE:CG2	51:BV:76:LEU:HD22	2.33	0.58
52:BW:9:VAL:HG13	52:BW:42:PRO:N	2.12	0.58
52:BW:27:GLU:HG2	52:BW:29:ARG:N	2.11	0.58
53:BX:49:ALA:O	53:BX:52:ALA:HB3	2.04	0.58
53:BX:73:HIS:H	53:BX:76:ALA:HB2	1.65	0.58
55:CA:36:ALA:O	55:CA:37:GLU:HG2	2.03	0.58
55:CA:87:ARG:HD2	55:CA:284:ILE:HG23	1.84	0.58
55:CA:322:GLU:HG3	55:CA:379:GLU:OE1	1.99	0.58
1:AA:6:A:N3	1:AA:2897:U:C2	2.64	0.58
1:AA:75:G:C4'	25:AY:50:ARG:HH21	2.15	0.58
1:AA:123:G:N2	1:AA:124:G:H1'	2.19	0.58
1:AA:270(E):G:H8	1:AA:270(E):G:OP2	1.87	0.58
1:AA:281:G:C8	1:AA:427:U:O2	2.56	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:304:G:H2'	1:AA:305:U:H6	1.68	0.58
1:AA:374:A:N6	1:AA:401:A:C1'	2.67	0.58
1:AA:469:G:C2	30:Ad:40:TRP:HZ2	2.21	0.58
1:AA:529:A:N6	1:AA:2023:G:C4	2.71	0.58
1:AA:558:G:P	11:AK:111:PRO:HG2	2.44	0.58
1:AA:611:C:O2	1:AA:616:A:H2	1.87	0.58
1:AA:666:G:H3'	1:AA:666:G:OP2	2.03	0.58
1:AA:811:U:C6	1:AA:811:U:H3'	2.39	0.58
1:AA:954:G:O6	1:AA:964:C:N4	2.37	0.58
1:AA:973:A:O4'	1:AA:1188:U:C5	2.57	0.58
1:AA:1005:C:H1'	1:AA:1012:U:O2	2.04	0.58
1:AA:1021:A:C2'	1:AA:1022:G:OP1	2.49	0.58
1:AA:1036:G:N3	1:AA:1120:G:N1	2.50	0.58
1:AA:1062:G:N3	1:AA:1063:G:H5'	2.19	0.58
1:AA:1064:C:H2'	1:AA:1065:U:C5'	2.33	0.58
1:AA:1104:C:O2'	1:AA:1106:G:P	2.61	0.58
1:AA:1106:G:C5	1:AA:1107:G:C6	2.89	0.58
1:AA:1174:A:N6	1:AA:1177:A:N1	2.49	0.58
1:AA:1255:U:N3	6:AF:72:ARG:O	2.37	0.58
1:AA:1423:G:N3	1:AA:1424:G:C8	2.71	0.58
1:AA:1459:G:O6	1:AA:1461:G:N1	2.36	0.58
1:AA:1477:A:H2'	1:AA:1478:G:C1'	2.34	0.58
1:AA:1515:C:H6	1:AA:1515:C:OP1	1.86	0.58
1:AA:1609:A:H1'	1:AA:1616:A:H4'	1.85	0.58
1:AA:1618:A:O2'	1:AA:1619:G:OP1	2.18	0.58
1:AA:1804:C:OP1	4:AD:257:LEU:HD22	2.04	0.58
1:AA:1941:C:O2	1:AA:1941:C:C2'	2.52	0.58
1:AA:1973:G:C6	1:AA:1974:C:N4	2.71	0.58
1:AA:2025:C:H2'	1:AA:2026:C:H6	1.58	0.58
1:AA:2230:G:H2'	1:AA:2231:C:C6	2.37	0.58
1:AA:2283:C:C5	1:AA:2389:G:C2	2.90	0.58
1:AA:2618:G:O2'	5:AE:150:VAL:HG12	2.03	0.58
1:AA:2629:A:C2	1:AA:2801:A:N3	2.71	0.58
1:AA:2747:G:N2	1:AA:2748:A:H62	2.01	0.58
1:AA:2805:G:N7	1:AA:2807:G:H8	2.01	0.58
1:AA:2807:G:N3	1:AA:2808:U:H5	1.78	0.58
1:AA:2839:G:C2	1:AA:2880:C:C4	2.91	0.58
2:AB:71:C:C2'	2:AB:72:G:C5'	2.64	0.58
2:AB:73:A:O2'	2:AB:74:U:O5'	2.21	0.58
4:AD:5:LYS:HB3	4:AD:29:PRO:CD	2.31	0.58
4:AD:199:ALA:HA	4:AD:202:LYS:HD3	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:39:TRP:HE3	6:AF:99:TYR:HB3	1.66	0.58
7:AG:26:GLN:OE1	7:AG:29:TRP:HE3	1.87	0.58
7:AG:29:TRP:C	7:AG:31:VAL:HG23	2.27	0.58
7:AG:147:ASP:O	7:AG:148:MET:HB2	2.01	0.58
8:AH:24:VAL:HG13	8:AH:37:VAL:CG1	2.33	0.58
8:AH:67:LEU:O	8:AH:68:THR:C	2.46	0.58
8:AH:69:ARG:HH11	8:AH:69:ARG:CG	2.17	0.58
8:AH:90:LYS:HE2	8:AH:159:GLU:CD	2.28	0.58
8:AH:164:TYR:CE2	8:AH:167:GLU:N	2.58	0.58
8:AH:171:LEU:CA	8:AH:172:LYS:HZ2	2.16	0.58
11:AK:34:LEU:HA	11:AK:49:GLY:C	2.28	0.58
12:AL:64:ARG:HH21	12:AL:67:LYS:CA	2.16	0.58
12:AL:77:ILE:O	17:AQ:75:ILE:CG1	2.51	0.58
14:AN:39:PRO:HG3	14:AN:127:ILE:CG1	2.31	0.58
14:AN:54:MET:HB2	14:AN:64:ILE:HD13	1.86	0.58
14:AN:109:VAL:HG21	14:AN:114:ALA:N	2.19	0.58
15:AO:98:LEU:H	15:AO:114:VAL:HG22	1.67	0.58
16:AP:4:LEU:O	16:AP:8:GLU:HG3	2.02	0.58
17:AQ:26:ASP:O	17:AQ:52:ILE:CG2	2.52	0.58
20:AT:31:GLU:N	20:AT:31:GLU:OE1	2.35	0.58
21:AU:8:ILE:C	21:AU:9:LEU:CG	2.76	0.58
21:AU:18:TYR:OH	21:AU:96:ILE:HG12	2.03	0.58
21:AU:21:PHE:HD1	21:AU:26:TYR:HA	1.69	0.58
22:AV:49:VAL:HB	22:AV:51:VAL:HG23	1.86	0.58
22:AV:96:ILE:HD12	22:AV:96:ILE:H	1.69	0.58
23:AW:9:TYR:HD2	23:AW:14:LYS:HZ3	1.50	0.58
23:AW:76:LEU:HA	23:AW:83:PRO:HA	1.85	0.58
25:AY:27:LEU:HG	25:AY:30:LEU:HD11	1.84	0.58
26:AZ:44:ARG:O	26:AZ:45:GLY:C	2.45	0.58
34:BA:16:A:H1'	38:BI:17:ALA:HB3	1.84	0.58
34:BA:46:G:H22	34:BA:366:C:H1'	1.68	0.58
34:BA:123:C:OP1	34:BA:312:C:H5'	2.03	0.58
34:BA:148:G:H2'	34:BA:149:A:H8	1.68	0.58
34:BA:167:G:H2'	34:BA:168:G:H8	1.67	0.58
34:BA:173:U:H4'	34:BA:197:A:C4	2.38	0.58
34:BA:341:C:O2'	34:BA:342:C:C5'	2.52	0.58
34:BA:375:U:C4'	49:BT:17:TYR:HE2	2.15	0.58
34:BA:449:C:C4	34:BA:450:G:H1'	2.38	0.58
34:BA:555:C:H5''	34:BA:556:C:OP2	2.02	0.58
34:BA:778:G:C4	34:BA:779:C:C5	2.92	0.58
34:BA:950:U:O2'	34:BA:951:G:H5'	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1253:G:N2	34:BA:1254:C:H1'	2.17	0.58
34:BA:1274:G:H2'	34:BA:1275:A:C8	2.38	0.58
34:BA:1305:G:H5''	54:BY:5:ASP:N	2.18	0.58
34:BA:1494:G:C6	56:BA:1601:NMY:N7	2.71	0.58
56:BA:1601:NMY:HN21	56:BA:1601:NMY:C13	2.15	0.58
35:BF:15:VAL:HG22	35:BF:209:ARG:CZ	2.34	0.58
35:BF:67:THR:HB	35:BF:90:MET:SD	2.43	0.58
35:BF:71:VAL:HG13	35:BF:73:THR:HG23	1.85	0.58
35:BF:124:SER:HB3	35:BF:126:GLU:CD	2.28	0.58
35:BF:189:ASP:O	35:BF:191:ASP:N	2.36	0.58
35:BF:196:LEU:C	35:BF:196:LEU:CD1	2.77	0.58
38:BI:79:GLU:CD	38:BI:79:GLU:N	2.62	0.58
40:BK:29:LYS:NZ	40:BK:102:ARG:HB2	2.12	0.58
40:BK:133:GLY:O	40:BK:137:LYS:HG3	2.03	0.58
43:BN:12:ASP:HB3	43:BN:15:THR:HG22	1.85	0.58
44:BO:128:ALA:O	44:BO:129:SER:C	2.47	0.58
46:BQ:65:LYS:HB2	46:BQ:69:GLU:CB	2.18	0.58
48:BS:26:GLU:OE2	48:BS:26:GLU:HA	2.04	0.58
50:BU:3:LYS:O	50:BU:4:LYS:O	2.20	0.58
50:BU:10:VAL:HB	50:BU:54:GLY:C	2.29	0.58
52:BW:16:LEU:HD12	52:BW:19:VAL:HG11	1.84	0.58
52:BW:74:PHE:N	52:BW:74:PHE:HD1	2.01	0.58
53:BX:54:LYS:H	53:BX:100:ILE:HD11	1.69	0.58
53:BX:72:LEU:HD22	53:BX:76:ALA:CB	2.34	0.58
55:CA:64:ILE:HG23	55:CA:188:GLN:CD	2.25	0.58
55:CA:310:PHE:CA	55:CA:385:PRO:HG3	2.33	0.58
1:AA:4:C:H2'	1:AA:5:A:C8	2.39	0.58
1:AA:141:A:H2'	1:AA:141:A:N3	2.18	0.58
1:AA:221:A:O2'	1:AA:222:A:P	2.62	0.58
1:AA:320:A:O2'	6:AF:168:ARG:NH2	2.37	0.58
1:AA:546:C:C4	1:AA:547:A:N6	2.71	0.58
1:AA:547:A:H2'	1:AA:548:A:O4'	2.03	0.58
1:AA:623:G:H8	13:AM:105:LEU:CB	2.15	0.58
1:AA:671:C:C2	1:AA:672:C:C5	2.92	0.58
1:AA:673:C:O2'	1:AA:674:G:H5'	2.03	0.58
1:AA:739:G:C2'	1:AA:1784:A:H61	2.17	0.58
1:AA:781:A:O2'	1:AA:1788:C:O2	2.21	0.58
1:AA:807:U:O2	1:AA:808:G:C8	2.57	0.58
1:AA:909:A:N3	1:AA:912:C:C6	2.71	0.58
1:AA:955:C:H5''	14:AN:87:LYS:HE2	1.86	0.58
1:AA:969:U:C2	1:AA:970:C:C6	2.92	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1456:G:H1	1:AA:2703:C:H42	1.51	0.58
1:AA:1472:A:N9	1:AA:1473:G:N7	2.52	0.58
1:AA:1531:C:C2	1:AA:1532:C:H5	2.21	0.58
1:AA:1568:G:HO2'	1:AA:1569:A:P	2.26	0.58
1:AA:1654:A:HO2'	5:AE:113:PHE:HD1	1.48	0.58
1:AA:1670:C:H2'	1:AA:1671:U:H5'	1.85	0.58
1:AA:1671:U:O2'	5:AE:129:HIS:CE1	2.57	0.58
1:AA:1681:G:H2'	1:AA:1682:G:OP1	2.03	0.58
1:AA:1770:G:H2'	1:AA:1771:C:C6	2.39	0.58
1:AA:1906:G:C2	1:AA:1907:G:C8	2.91	0.58
1:AA:1906:G:OP2	1:AA:1930:G:N7	2.36	0.58
1:AA:2029:G:H8	1:AA:2029:G:O5'	1.86	0.58
1:AA:2178:C:O2'	3:AC:168:THR:HB	2.04	0.58
1:AA:2329:G:N1	1:AA:2386:C:N4	2.39	0.58
1:AA:2346:A:N3	1:AA:2383:G:C5	2.71	0.58
1:AA:2463:C:O2'	1:AA:2464:C:H5'	2.04	0.58
1:AA:2539:C:H1'	32:Af:2:LYS:NZ	2.19	0.58
1:AA:2626:C:H6	1:AA:2626:C:O5'	1.85	0.58
1:AA:2668:G:H2'	1:AA:2669:G:H8	1.59	0.58
2:AB:81:G:C6	2:AB:82:G:N7	2.72	0.58
4:AD:5:LYS:HD2	4:AD:81:ALA:HB1	1.85	0.58
4:AD:169:GLU:O	4:AD:172:TYR:O	2.22	0.58
4:AD:178:PRO:HG2	4:AD:179:SER:N	2.18	0.58
5:AE:105:THR:CG2	5:AE:197:ILE:HD13	2.33	0.58
7:AG:125:PHE:CZ	7:AG:130:ASN:HB2	2.37	0.58
7:AG:134:GLY:O	7:AG:135:LEU:HB3	2.03	0.58
8:AH:11:VAL:HG11	8:AH:17:VAL:HG21	1.86	0.58
8:AH:33:LEU:CD2	8:AH:35:VAL:HG13	2.32	0.58
8:AH:76:VAL:CG2	8:AH:77:LYS:N	2.66	0.58
8:AH:84:SER:CA	8:AH:134:SER:HA	2.25	0.58
8:AH:87:LEU:N	8:AH:132:ARG:HB3	2.16	0.58
8:AH:118:PRO:HG3	8:AH:144:VAL:CG2	2.33	0.58
10:AJ:66:THR:HG22	10:AJ:67:PHE:H	1.67	0.58
11:AK:65:LYS:O	11:AK:66:LYS:O	2.22	0.58
11:AK:93:THR:C	11:AK:94:HIS:CD2	2.81	0.58
12:AL:19:ILE:HD12	12:AL:19:ILE:C	2.28	0.58
13:AM:90:ARG:HA	13:AM:125:VAL:HG22	1.85	0.58
15:AO:69:ASP:C	15:AO:70:LEU:HD23	2.29	0.58
16:AP:7:TYR:HB3	16:AP:11:LYS:HZ1	1.69	0.58
17:AQ:95:ARG:HD2	17:AQ:96:ARG:CZ	2.33	0.58
18:AR:10:ARG:O	18:AR:11:ARG:C	2.46	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:81:HIS:CG	18:AR:117:GLN:HE22	2.22	0.58
22:AV:6:HIS:CG	22:AV:33:LYS:HZ3	2.21	0.58
22:AV:98:VAL:O	22:AV:99:CYS:C	2.47	0.58
24:AX:44:ARG:CG	24:AX:77:ARG:HG3	2.33	0.58
24:AX:59:LEU:CD1	24:AX:79:VAL:HG11	2.34	0.58
28:Ab:51:TYR:C	28:Ab:51:TYR:HD1	2.11	0.58
29:Ac:17:LYS:C	29:Ac:19:ARG:HD2	2.28	0.58
29:Ac:32:ASN:ND2	29:Ac:33:LYS:N	2.52	0.58
31:Ae:27:THR:H	31:Ae:44:LYS:NZ	2.01	0.58
34:BA:55:A:C2'	34:BA:56:U:C5'	2.80	0.58
34:BA:67:C:O2	34:BA:171:A:H2	1.87	0.58
34:BA:246:A:HO2'	34:BA:247:G:C4'	2.15	0.58
34:BA:296:U:H2'	34:BA:297:G:H8	1.66	0.58
34:BA:372:C:N3	34:BA:376:G:O6	2.37	0.58
34:BA:656:C:O2'	34:BA:657:G:H5'	2.03	0.58
34:BA:835:U:OP1	51:BV:64:ARG:NH1	2.33	0.58
34:BA:878:G:H5''	41:BL:89:PRO:O	2.03	0.58
34:BA:939:G:C2	34:BA:940:C:C4	2.91	0.58
34:BA:961:U:O2'	34:BA:962:C:C5'	2.48	0.58
34:BA:1059:C:O2'	43:BN:53:PRO:HD3	2.04	0.58
34:BA:1173:G:H2'	34:BA:1174:G:H5''	1.85	0.58
34:BA:1202:G:H1'	47:BR:29:ARG:NE	2.18	0.58
34:BA:1240:U:O2'	34:BA:1241:G:OP1	2.21	0.58
34:BA:1390:U:C2	34:BA:1391:U:C4	2.92	0.58
35:BF:100:GLY:HA2	35:BF:176:GLU:OE2	2.03	0.58
35:BF:142:LEU:O	35:BF:143:GLU:C	2.47	0.58
35:BF:150:SER:O	35:BF:151:GLY:O	2.22	0.58
36:BG:71:ALA:HB2	36:BG:106:VAL:CG2	2.34	0.58
36:BG:142:MET:HA	36:BG:146:ALA:CB	2.34	0.58
37:BH:8:VAL:HG13	37:BH:11:LEU:HD12	1.85	0.58
37:BH:67:ILE:HD12	37:BH:68:TYR:N	2.19	0.58
37:BH:154:ASN:HD22	37:BH:155:LEU:N	2.02	0.58
37:BH:173:TRP:CA	37:BH:186:LEU:HD12	2.34	0.58
40:BK:56:GLN:CD	40:BK:56:GLN:H	2.12	0.58
40:BK:146:GLU:O	40:BK:147:ALA:C	2.47	0.58
41:BL:51:VAL:CG1	41:BL:52:ASP:N	2.66	0.58
42:BM:65:VAL:HG21	42:BM:77:ILE:HD11	1.85	0.58
43:BN:29:ARG:HB2	43:BN:84:GLN:HE21	1.69	0.58
44:BO:11:LYS:HB3	44:BO:13:GLN:CD	2.28	0.58
47:BR:24:CYS:N	47:BR:33:VAL:HG11	2.18	0.58
47:BR:42:ILE:C	47:BR:44:LEU:N	2.56	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:70:LEU:HG	48:BS:78:TYR:HB2	1.85	0.58
55:CA:6:ARG:CZ	55:CA:196:ALA:HB2	2.34	0.58
55:CA:240:ILE:N	55:CA:286:ASP:OD1	2.36	0.58
55:CA:258:LEU:HD22	55:CA:260:LEU:CD1	2.34	0.58
55:CA:274:VAL:O	55:CA:275:ALA:HB3	2.03	0.58
55:CA:292:GLN:O	55:CA:293:ASN:HB2	2.03	0.58
55:CA:382:VAL:H	55:CA:578:VAL:HB	1.67	0.58
55:CA:407:VAL:C	55:CA:436:ARG:HA	2.29	0.58
55:CA:486:GLY:O	55:CA:526:ILE:HA	2.03	0.58
55:CA:572:ILE:HG21	55:CA:578:VAL:HG23	1.77	0.58
1:AA:147:U:H2'	1:AA:148:C:C6	2.39	0.58
1:AA:203:C:H3'	1:AA:204:A:C8	2.36	0.58
1:AA:228:A:H2'	1:AA:229:A:C5'	2.32	0.58
1:AA:270(V):G:H2'	1:AA:270(W):G:C8	2.38	0.58
1:AA:470:A:C2'	1:AA:471:A:O5'	2.52	0.58
1:AA:510:C:O5'	1:AA:512:G:C6	2.57	0.58
1:AA:586:A:N6	1:AA:810:U:H5'	2.19	0.58
1:AA:590:A:H5'	6:AF:93:LYS:NZ	2.17	0.58
1:AA:638:G:N2	1:AA:650:C:O2'	2.35	0.58
1:AA:684:G:N2	1:AA:794:G:C2	2.72	0.58
1:AA:740:U:O2'	1:AA:741:G:O5'	2.21	0.58
1:AA:1077:A:N7	1:AA:1088:A:O2'	2.36	0.58
1:AA:1081:U:C4'	10:AJ:125:ARG:CD	2.82	0.58
1:AA:1341:U:O4	1:AA:1395:A:C2	2.54	0.58
1:AA:1357:U:C4	1:AA:1358:G:C2	2.91	0.58
1:AA:1435:G:C2	1:AA:1558:A:N6	2.72	0.58
1:AA:1603:A:H3'	1:AA:1603:A:P	2.44	0.58
1:AA:1628:G:H2'	1:AA:1629:U:C6	2.38	0.58
1:AA:1775:U:C6	4:AD:208:LYS:CD	2.85	0.58
1:AA:1789:A:C2'	4:AD:213:ARG:HH12	2.16	0.58
1:AA:1794:U:H2'	1:AA:1795:C:C6	2.39	0.58
1:AA:1832:C:N4	1:AA:1833:U:C4	2.72	0.58
1:AA:1853:A:C4	1:AA:1854:A:C8	2.91	0.58
1:AA:1857:G:N7	1:AA:1883:G:O6	2.37	0.58
1:AA:1903:G:OP1	4:AD:242:ARG:HB3	2.04	0.58
1:AA:1924:C:C5	1:AA:1925:C:H5	2.22	0.58
1:AA:1999:C:C2'	1:AA:2000:G:O5'	2.51	0.58
1:AA:2043:C:OP1	1:AA:2043:C:C6	2.54	0.58
1:AA:2055:C:H4'	1:AA:2056:G:O5'	2.04	0.58
1:AA:2134:A:N1	1:AA:2135:A:N1	2.51	0.58
1:AA:2232:U:C2'	1:AA:2233:U:H5'	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2285:C:C5	29:Ac:27:LYS:NZ	2.72	0.58
1:AA:2310:A:C2	7:AG:83:ARG:NH1	2.72	0.58
1:AA:2423:U:O2	1:AA:2423:U:C2'	2.51	0.58
1:AA:2469:A:C5	1:AA:2470:G:C8	2.91	0.58
1:AA:2570:G:C2	1:AA:2571:C:C2	2.91	0.58
1:AA:2572:A:H5''	1:AA:2573:C:OP1	2.04	0.58
1:AA:2716:U:H2'	1:AA:2717:G:C8	2.38	0.58
1:AA:2733:A:N7	1:AA:2734:A:C8	2.72	0.58
1:AA:2740:A:N6	1:AA:2741:A:N6	2.52	0.58
1:AA:2741:A:O3'	32:Af:2:LYS:NZ	2.36	0.58
4:AD:12:SER:HB2	4:AD:14:ARG:HH21	1.68	0.58
4:AD:209:ALA:C	4:AD:213:ARG:HG2	2.28	0.58
5:AE:8:LYS:HD2	17:AQ:3:ARG:HA	1.85	0.58
5:AE:98:PRO:HB3	5:AE:175:VAL:HG13	1.84	0.58
5:AE:156:MET:O	5:AE:160:TYR:CE1	2.57	0.58
5:AE:175:VAL:O	5:AE:175:VAL:HG23	2.04	0.58
6:AF:53:THR:C	6:AF:55:GLY:H	2.12	0.58
7:AG:19:LEU:HA	7:AG:22:ARG:NE	2.19	0.58
7:AG:44:GLY:N	7:AG:88:ILE:CG2	2.67	0.58
11:AK:13:TRP:HB2	11:AK:136:GLU:CD	2.28	0.58
11:AK:34:LEU:CD2	11:AK:120:LEU:HB2	2.33	0.58
11:AK:36:GLY:C	11:AK:47:ALA:HB3	2.29	0.58
11:AK:45:ASN:O	11:AK:46:VAL:CG2	2.45	0.58
12:AL:119:PRO:HB3	34:BA:347:G:OP2	2.01	0.58
13:AM:72:PRO:HB2	13:AM:111:ARG:HB2	1.81	0.58
14:AN:64:ILE:O	14:AN:65:PHE:HD1	1.87	0.58
14:AN:68:ILE:HG21	14:AN:95:ALA:CB	2.34	0.58
14:AN:102:VAL:O	14:AN:102:VAL:CG1	2.50	0.58
15:AO:80:PHE:O	15:AO:84:ALA:HB3	2.03	0.58
16:AP:29:PHE:CE1	16:AP:34:HIS:NE2	2.71	0.58
16:AP:49:VAL:C	16:AP:76:LYS:HZ1	2.11	0.58
17:AQ:37:GLY:HA3	17:AQ:43:GLN:HA	1.85	0.58
17:AQ:107:ASP:HB2	17:AQ:108:ARG:HD3	1.84	0.58
18:AR:89:GLU:O	18:AR:90:VAL:CG2	2.52	0.58
18:AR:94:ASN:HD22	19:AS:6:LYS:HZ1	1.48	0.58
20:AT:95:ILE:HD12	20:AT:95:ILE:N	2.15	0.58
21:AU:12:VAL:HB	21:AU:27:THR:C	2.29	0.58
22:AV:7:VAL:O	22:AV:8:LYS:HD2	2.03	0.58
22:AV:12:THR:HA	22:AV:73:ARG:CZ	2.33	0.58
22:AV:32:PRO:O	22:AV:34:LYS:N	2.37	0.58
22:AV:37:VAL:HG13	22:AV:39:VAL:HB	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:29:TYR:CG	23:AW:72:ARG:NH2	2.72	0.58
23:AW:100:VAL:HG12	23:AW:133:ILE:HB	1.86	0.58
24:AX:44:ARG:HH21	24:AX:77:ARG:NH1	2.02	0.58
25:AY:3:LYS:O	25:AY:6:GLU:HB2	2.04	0.58
25:AY:24:LYS:HG2	25:AY:52:ILE:HG21	1.85	0.58
25:AY:32:PHE:HD1	25:AY:32:PHE:N	2.01	0.58
26:AZ:40:THR:HB	26:AZ:43:ILE:HB	1.86	0.58
32:Af:3:VAL:O	32:Af:5:ALA:N	2.35	0.58
34:BA:35:G:O2'	45:BP:118:SER:HA	2.04	0.58
34:BA:106:C:O2	34:BA:379:C:H4'	2.04	0.58
34:BA:136:C:H4'	49:BT:65:GLN:HE22	1.69	0.58
34:BA:263:A:O5'	34:BA:263:A:H8	1.87	0.58
34:BA:267:C:N4	34:BA:268:C:H41	1.99	0.58
34:BA:689:C:H2'	34:BA:690:G:C1'	2.34	0.58
34:BA:708:C:C4'	44:BO:37:GLY:HA3	2.34	0.58
34:BA:862:C:C4	34:BA:863:U:H5	2.21	0.58
34:BA:969:A:OP1	34:BA:969:A:O4'	2.21	0.58
34:BA:978:A:N1	34:BA:1318:A:N6	2.52	0.58
34:BA:1047:G:C5'	47:BR:4:LYS:HD3	2.32	0.58
34:BA:1068:G:C6	34:BA:1108:G:N3	2.72	0.58
34:BA:1116:C:C2	34:BA:1117:G:C8	2.92	0.58
34:BA:1133:G:N1	34:BA:1142:G:C6	2.72	0.58
34:BA:1191:A:P	36:BG:4:LYS:HZ3	2.27	0.58
34:BA:1196:U:H3'	34:BA:1196:U:C6	2.36	0.58
34:BA:1248:A:O2'	42:BM:36:TYR:CE1	2.57	0.58
34:BA:1268:A:C2	34:BA:1311:G:C4	2.92	0.58
34:BA:1302:U:P	46:BQ:21:TYR:HE2	2.25	0.58
34:BA:1394:A:O2'	34:BA:1395:C:P	2.61	0.58
35:BF:17:PHE:HA	35:BF:42:ILE:CG2	2.34	0.58
35:BF:19:HIS:ND1	35:BF:204:ASN:ND2	2.52	0.58
35:BF:33:TYR:CG	35:BF:43:ASP:HB2	2.38	0.58
35:BF:50:GLU:CG	35:BF:200:ILE:O	2.42	0.58
36:BG:30:ARG:HD3	36:BG:30:ARG:N	2.18	0.58
36:BG:46:GLU:O	36:BG:47:LEU:HD13	2.03	0.58
37:BH:19:LEU:O	37:BH:26:CYS:SG	2.62	0.58
37:BH:60:GLU:OE2	37:BH:202:LEU:HD12	2.02	0.58
37:BH:125:HIS:HA	37:BH:149:ALA:HB3	1.85	0.58
38:BI:15:ARG:HG3	38:BI:15:ARG:HH11	1.69	0.58
38:BI:61:TYR:HA	38:BI:64:ARG:HG2	1.85	0.58
40:BK:26:PHE:HD2	40:BK:43:PHE:HE1	1.52	0.58
45:BP:60:LEU:C	45:BP:60:LEU:CD2	2.77	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:84:LEU:O	45:BP:100:ILE:HA	2.04	0.58
48:BS:79:ARG:HA	48:BS:82:ILE:HG13	1.86	0.58
50:BU:92:ARG:O	50:BU:95:TYR:N	2.36	0.58
54:BY:14:TRP:HZ3	54:BY:15:ARG:NE	2.02	0.58
55:CA:98:VAL:HA	55:CA:126:VAL:O	2.04	0.58
55:CA:313:VAL:HG13	55:CA:326:VAL:O	2.03	0.58
55:CA:390:ARG:HG2	55:CA:391:GLU:CB	2.33	0.58
55:CA:411:HIS:CD2	55:CA:459:THR:HG22	2.39	0.58
55:CA:541:LYS:HB2	55:CA:542:LYS:CA	2.33	0.58
1:AA:36:G:H4'	1:AA:451:C:O2	2.03	0.58
1:AA:76:C:H2'	1:AA:76:C:O2	2.04	0.58
1:AA:247:G:O6	31:Ae:11:LYS:NZ	2.35	0.58
1:AA:502:A:O2'	1:AA:503:A:H5'	2.04	0.58
1:AA:672:C:H3'	13:AM:38:GLN:NE2	2.12	0.58
1:AA:793:A:H2'	1:AA:793:A:N3	2.19	0.58
1:AA:811:U:O5'	1:AA:811:U:H6	1.86	0.58
1:AA:1000:A:N6	1:AA:1155:A:H5'	2.19	0.58
1:AA:1060:U:OP1	10:AJ:52:ILE:HD13	2.04	0.58
1:AA:1061:U:O2	10:AJ:11:GLN:OE1	2.21	0.58
1:AA:1067:A:C5'	10:AJ:21:PRO:CG	2.53	0.58
1:AA:1222:C:H2'	1:AA:1223:C:H5'	1.84	0.58
1:AA:1257:C:O2'	6:AF:84:VAL:CG2	2.46	0.58
1:AA:1424:G:H2'	1:AA:1425:G:O5'	2.04	0.58
1:AA:1463:C:H2'	1:AA:1464:C:O5'	2.04	0.58
1:AA:1486:A:H2'	1:AA:1487:G:O4'	2.04	0.58
1:AA:1638:C:H5''	1:AA:2710:C:C1'	2.30	0.58
1:AA:1675:C:O2	1:AA:1675:C:H2'	2.02	0.58
1:AA:1697:G:C8	1:AA:1698:A:C5'	2.86	0.58
1:AA:1799:G:C3'	4:AD:183:ARG:NH2	2.63	0.58
1:AA:1827:C:OP1	1:AA:1971:A:O2'	2.20	0.58
1:AA:1944:U:C2'	1:AA:1945:G:OP1	2.52	0.58
1:AA:2003:G:C6	1:AA:2004:G:C6	2.92	0.58
1:AA:2043:C:C5	1:AA:2777:G:H1'	2.39	0.58
1:AA:2165:G:C8	1:AA:2165:G:OP2	2.56	0.58
1:AA:2269:A:H2'	1:AA:2270:G:O4'	2.03	0.58
1:AA:2307:G:C8	1:AA:2308:G:H1'	2.39	0.58
1:AA:2323:G:C2	1:AA:2324:C:N3	2.72	0.58
1:AA:2336:A:O2'	1:AA:2337:G:OP1	2.18	0.58
1:AA:2371:G:H2'	1:AA:2372:G:O4'	2.03	0.58
1:AA:2380:C:C4	1:AA:2381:C:C5	2.92	0.58
1:AA:2512:C:OP1	5:AE:120:TRP:CH2	2.56	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2519:U:C6	1:AA:2542:A:N1	2.72	0.58
1:AA:2577:A:O2'	1:AA:2612:C:C4	2.55	0.58
1:AA:2679:A:C2'	1:AA:2680:C:H5'	2.34	0.58
1:AA:2685:G:H4'	12:AL:66:LYS:CE	2.33	0.58
1:AA:2754:U:H5'	32:Af:15:LYS:NZ	2.19	0.58
1:AA:2787:C:O2	5:AE:61:ARG:CZ	2.51	0.58
1:AA:2828:C:N4	1:AA:2829:C:H41	2.00	0.58
2:AB:66:A:C2	2:AB:108:C:C6	2.92	0.58
2:AB:77:U:O2'	23:AW:78:LYS:NZ	2.33	0.58
3:AC:22:ILE:HG23	3:AC:189:ILE:CD1	2.32	0.58
3:AC:64:LEU:HD11	3:AC:161:ILE:HG12	1.86	0.58
3:AC:104:LEU:HD13	3:AC:130:ILE:CD1	2.34	0.58
4:AD:61:LEU:CD1	4:AD:86:PRO:HD3	2.32	0.58
5:AE:13:ARG:NE	5:AE:20:ALA:C	2.62	0.58
5:AE:142:GLY:C	5:AE:143:ASN:CG	2.71	0.58
6:AF:75:HIS:NE2	6:AF:80:ALA:HB3	2.19	0.58
6:AF:77:ASP:CG	6:AF:80:ALA:HB2	2.29	0.58
6:AF:189:THR:O	6:AF:190:GLU:C	2.46	0.58
12:AL:8:LEU:O	12:AL:18:LYS:HG3	2.04	0.58
12:AL:16:ALA:HB2	12:AL:46:ALA:O	2.04	0.58
12:AL:47:ILE:O	12:AL:47:ILE:HG23	2.04	0.58
12:AL:68:GLU:OE1	12:AL:104:ARG:HD2	2.04	0.58
12:AL:68:GLU:HB2	12:AL:104:ARG:HD2	1.86	0.58
13:AM:58:THR:HG22	13:AM:60:MET:H	1.69	0.58
13:AM:73:GLY:CA	13:AM:111:ARG:NH2	2.48	0.58
15:AO:65:LEU:O	15:AO:68:ARG:CB	2.52	0.58
16:AP:24:LEU:HD11	16:AP:41:ASP:HB3	1.86	0.58
17:AQ:42:ILE:HD13	34:BA:345:C:OP1	2.04	0.58
17:AQ:105:LEU:O	17:AQ:107:ASP:N	2.36	0.58
18:AR:13:LYS:H	18:AR:13:LYS:CD	2.08	0.58
19:AS:15:GLU:CA	19:AS:100:ARG:HH12	2.09	0.58
21:AU:24:GLY:O	21:AU:83:VAL:HG22	2.04	0.58
22:AV:45:VAL:HA	22:AV:57:GLN:HG2	1.86	0.58
22:AV:46:LYS:N	22:AV:57:GLN:HA	2.18	0.58
22:AV:69:ALA:HB3	22:AV:71:LYS:NZ	2.19	0.58
27:Aa:65:ASP:HA	27:Aa:68:ARG:CZ	2.32	0.58
28:Ab:36:CYS:HB2	28:Ab:37:LYS:CD	2.31	0.58
31:Ae:34:TRP:O	31:Ae:36:LYS:N	2.33	0.58
31:Ae:36:LYS:HG3	31:Ae:40:GLU:OE1	2.03	0.58
34:BA:35:G:O2'	34:BA:36:C:H5'	2.03	0.58
34:BA:486:U:H2'	34:BA:487:A:C5'	2.34	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:560:U:O2'	34:BA:561:U:OP2	2.13	0.58
34:BA:594:G:N2	34:BA:596:C:N4	2.52	0.58
34:BA:673:G:N2	34:BA:674:G:C2	2.72	0.58
34:BA:684:A:H1'	44:BO:39:PRO:HD2	1.86	0.58
34:BA:873:A:OP1	34:BA:873:A:O4'	2.22	0.58
34:BA:881:G:C6	34:BA:882:C:C4	2.92	0.58
34:BA:922:G:N3	34:BA:1398:A:H2	2.02	0.58
34:BA:1006:C:O2	34:BA:1006:C:H2'	2.03	0.58
34:BA:1118:C:C4	34:BA:1156:G:N2	2.72	0.58
34:BA:1178:G:N2	34:BA:1180:A:C5'	2.67	0.58
35:BF:23:ARG:HH11	35:BF:24:TRP:H	1.48	0.58
35:BF:47:THR:O	35:BF:51:LEU:CG	2.45	0.58
35:BF:69:LEU:HD23	35:BF:91:PRO:HB3	1.86	0.58
35:BF:118:LEU:HD11	35:BF:141:GLU:OE1	2.04	0.58
35:BF:189:ASP:CG	35:BF:205:ASP:CG	2.71	0.58
35:BF:212:GLN:HB3	35:BF:235:SER:HG	1.69	0.58
36:BG:177:THR:O	36:BG:178:LEU:C	2.45	0.58
37:BH:57:ARG:HH22	38:BI:107:ARG:NE	2.01	0.58
38:BI:7:GLU:O	38:BI:34:VAL:HA	2.03	0.58
38:BI:13:ILE:N	38:BI:13:ILE:CD1	2.66	0.58
38:BI:70:PRO:CB	38:BI:143:ARG:HA	2.31	0.58
39:BJ:79:LEU:N	39:BJ:79:LEU:HD23	2.17	0.58
40:BK:76:ARG:HH11	40:BK:89:MET:HG3	1.69	0.58
40:BK:100:ALA:HA	40:BK:103:TRP:HE3	1.69	0.58
41:BL:37:ARG:CD	41:BL:41:ARG:HG3	2.18	0.58
42:BM:67:GLY:O	42:BM:73:GLN:NE2	2.37	0.58
42:BM:82:ALA:HB2	42:BM:101:PHE:CZ	2.39	0.58
42:BM:103:THR:CG2	42:BM:104:ARG:H	2.12	0.58
45:BP:88:GLY:O	45:BP:90:VAL:HG23	2.04	0.58
49:BT:76:GLN:O	49:BT:77:ALA:C	2.46	0.58
52:BW:31:ILE:H	52:BW:49:ILE:HA	1.67	0.58
53:BX:49:ALA:HB1	53:BX:99:LEU:HG	1.86	0.58
54:BY:6:ARG:NH1	54:BY:15:ARG:CZ	2.66	0.58
54:BY:9:ARG:NH1	54:BY:21:TYR:HD2	1.96	0.58
55:CA:24:LYS:N	55:CA:26:LEU:HD22	2.19	0.58
55:CA:40:GLU:H	55:CA:41:ARG:CA	2.16	0.58
55:CA:166:SER:H	55:CA:171:ILE:HG23	1.67	0.58
55:CA:253:LYS:CG	55:CA:271:GLY:HA2	2.34	0.58
55:CA:325:PHE:CD1	55:CA:378:PHE:CE2	2.92	0.58
1:AA:141:A:N1	1:AA:141(A):C:O4'	2.37	0.58
1:AA:239:U:O2'	1:AA:240:G:C5'	2.51	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:323:G:H4'	1:AA:324:A:O5'	2.04	0.58
1:AA:387:U:H4'	1:AA:388:G:C1'	2.33	0.58
1:AA:460:A:H3'	1:AA:461:C:H6	1.69	0.58
1:AA:481:G:H2'	1:AA:507:A:N6	2.18	0.58
1:AA:643:A:C1'	1:AA:644:A:C8	2.87	0.58
1:AA:712:G:C4	1:AA:713:G:N7	2.72	0.58
1:AA:729:G:C5	1:AA:730:C:C6	2.91	0.58
1:AA:784:A:H62	1:AA:792:G:N2	2.01	0.58
1:AA:900:A:N7	1:AA:901:A:H1'	2.18	0.58
1:AA:1029:A:O2'	1:AA:1030:G:H5'	2.04	0.58
1:AA:1139:G:O5'	11:AK:63:THR:HG21	2.04	0.58
1:AA:1147:C:O2'	1:AA:1148:A:H5'	2.03	0.58
1:AA:1221:C:H2'	1:AA:1221:C:O2	2.04	0.58
1:AA:1264:G:N7	1:AA:1265:A:C8	2.71	0.58
1:AA:1267:U:O2'	1:AA:1268:A:OP1	2.19	0.58
1:AA:1458:C:O2	1:AA:1461:G:N2	2.37	0.58
1:AA:1467:C:N4	1:AA:1468:C:N4	2.52	0.58
1:AA:1494:A:C2	1:AA:1495:A:O4'	2.57	0.58
1:AA:1576:U:H2'	1:AA:1577:C:C6	2.39	0.58
1:AA:1773:A:C5	1:AA:1774:C:O2	2.57	0.58
1:AA:1785:A:P	1:AA:1982:C:H4'	2.44	0.58
1:AA:1934:C:H2'	1:AA:1935:G:H8	1.67	0.58
1:AA:2049:G:N2	1:AA:2620:C:N1	2.51	0.58
1:AA:2206:C:C2	1:AA:2207:C:C5	2.92	0.58
1:AA:2283:C:N3	1:AA:2284:C:H1'	2.19	0.58
1:AA:2290:G:C2	1:AA:2291:U:C2	2.92	0.58
1:AA:2309:A:C2	1:AA:2310:A:O4'	2.56	0.58
1:AA:2387:U:H1'	24:AX:41:ARG:CZ	2.33	0.58
1:AA:2519:U:H1'	1:AA:2542:A:N1	2.18	0.58
1:AA:2574:G:O2'	5:AE:143:ASN:HB3	2.03	0.58
1:AA:2656:U:C1'	55:CA:132:ARG:HH22	1.96	0.58
1:AA:2707:G:O2'	1:AA:2708:G:H5'	2.04	0.58
1:AA:2709:G:H2'	1:AA:2710:C:C5'	2.23	0.58
1:AA:2784:C:H2'	1:AA:2785:C:H6	1.69	0.58
1:AA:2807:G:N9	1:AA:2808:U:H5	1.93	0.58
2:AB:60:C:O2	2:AB:60:C:C2'	2.51	0.58
2:AB:83:G:C2	2:AB:84:C:C6	2.91	0.58
3:AC:20:TYR:CE1	3:AC:222:VAL:HG22	2.39	0.58
3:AC:210:ARG:HB3	3:AC:210:ARG:CZ	2.33	0.58
4:AD:46:GLN:NE2	4:AD:51:VAL:HG23	2.19	0.58
5:AE:51:PHE:CD1	5:AE:52:LEU:N	2.72	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:71:GLY:C	6:AF:73:ALA:H	2.11	0.58
6:AF:204:ASN:N	6:AF:204:ASN:OD1	2.37	0.58
7:AG:6:ALA:O	7:AG:10:LYS:HG2	2.04	0.58
8:AH:76:VAL:CG2	8:AH:77:LYS:H	2.16	0.58
8:AH:170:ARG:O	8:AH:171:LEU:HD23	2.04	0.58
10:AJ:62:ASP:HB3	10:AJ:63:ARG:O	2.03	0.58
10:AJ:76:TYR:CE1	10:AJ:80:LYS:HE2	2.39	0.58
11:AK:25:ARG:C	11:AK:28:THR:HG23	2.27	0.58
11:AK:95:PRO:HG2	11:AK:96:GLU:H	1.69	0.58
11:AK:100:GLU:O	11:AK:104:LYS:HG2	2.04	0.58
12:AL:23:ARG:HB2	12:AL:23:ARG:NH1	2.04	0.58
12:AL:35:VAL:HG21	12:AL:104:ARG:NH1	2.18	0.58
12:AL:37:ASP:O	12:AL:61:VAL:HG23	2.04	0.58
12:AL:59:LYS:CB	12:AL:84:ALA:O	2.50	0.58
13:AM:42:SER:O	13:AM:44:GLY:N	2.37	0.58
13:AM:130:PHE:N	13:AM:130:PHE:CD1	2.71	0.58
13:AM:131:SER:OG	13:AM:134:ALA:HB2	2.04	0.58
15:AO:100:LEU:CD1	15:AO:101:ALA:H	2.16	0.58
16:AP:17:ARG:O	16:AP:20:ARG:HB2	2.03	0.58
16:AP:77:ALA:O	16:AP:78:LEU:C	2.47	0.58
17:AQ:38:ASN:C	17:AQ:39:ARG:HG2	2.28	0.58
17:AQ:82:LEU:HD22	17:AQ:84:GLN:H	1.68	0.58
18:AR:30:LYS:O	18:AR:32:PHE:CD1	2.56	0.58
20:AT:59:VAL:HG21	20:AT:66:GLU:CB	2.34	0.58
21:AU:26:TYR:HB3	21:AU:28:PHE:CZ	2.39	0.58
21:AU:36:LYS:HE3	21:AU:56:THR:HG23	1.84	0.58
24:AX:46:LYS:HG3	24:AX:78:TYR:CD2	2.39	0.58
24:AX:56:ASP:O	24:AX:57:PHE:HB2	2.02	0.58
24:AX:76:GLY:N	24:AX:78:TYR:HE1	2.01	0.58
26:AZ:5:LYS:NZ	26:AZ:59:VAL:HG22	2.17	0.58
27:Aa:47:GLN:CA	27:Aa:52:THR:OG1	2.51	0.58
27:Aa:58:ARG:HB3	27:Aa:62:ARG:NH2	2.18	0.58
29:Ac:27:LYS:HE3	29:Ac:29:ASN:ND2	2.18	0.58
31:Ae:30:ARG:HH21	31:Ae:43:GLN:CA	2.17	0.58
32:Af:9:ARG:NE	32:Af:16:VAL:HB	2.18	0.58
34:BA:148:G:N2	34:BA:175:C:C4	2.71	0.58
34:BA:244:U:O2'	34:BA:245:C:OP2	2.22	0.58
34:BA:278:G:C4	50:BU:95:TYR:HE2	2.21	0.58
34:BA:325:A:N7	34:BA:326:G:C6	2.72	0.58
34:BA:358:U:H2'	34:BA:359:U:C6	2.39	0.58
34:BA:428:G:O2'	34:BA:429:U:P	2.62	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:572:A:O5'	34:BA:573:A:P	2.62	0.58
34:BA:689:C:C4	34:BA:690:G:N7	2.72	0.58
34:BA:696:A:H2'	34:BA:697:U:H5'	1.86	0.58
34:BA:815:A:C2	34:BA:1527:C:O2	2.57	0.58
34:BA:927:G:O5'	34:BA:1503:A:C6	2.54	0.58
34:BA:1049:U:C1'	34:BA:1201:A:O4'	2.52	0.58
34:BA:1120:G:C8	34:BA:1120:G:O5'	2.55	0.58
34:BA:1164:G:C6	34:BA:1173:G:C6	2.91	0.58
34:BA:1350:A:N6	34:BA:1373:G:C2	2.71	0.58
34:BA:1419:G:H2'	34:BA:1420:C:C6	2.39	0.58
34:BA:1486:G:H2'	34:BA:1487:G:O4'	2.04	0.58
35:BF:15:VAL:HG11	35:BF:209:ARG:CB	2.31	0.58
35:BF:25:ASN:OD1	35:BF:192:SER:O	2.22	0.58
35:BF:72:GLY:O	35:BF:73:THR:C	2.47	0.58
35:BF:78:GLN:NE2	35:BF:96:ARG:HH12	1.98	0.58
35:BF:84:GLU:HG3	35:BF:212:GLN:OE1	2.03	0.58
35:BF:130:ARG:HB3	35:BF:131:PRO:CD	2.31	0.58
35:BF:173:ALA:O	35:BF:174:VAL:C	2.46	0.58
35:BF:179:LYS:O	35:BF:181:PHE:N	2.37	0.58
36:BG:8:ILE:HG22	36:BG:9:GLY:N	2.19	0.58
36:BG:22:TRP:CH2	36:BG:32:LEU:HB3	2.39	0.58
36:BG:37:GLN:O	36:BG:38:ARG:C	2.47	0.58
36:BG:67:THR:CA	36:BG:102:ASN:HB2	2.30	0.58
36:BG:178:LEU:O	36:BG:179:ARG:CB	2.51	0.58
36:BG:181:ASN:HD22	36:BG:206:GLU:HA	1.69	0.58
37:BH:98:GLU:OE2	37:BH:103:ASN:OD1	2.22	0.58
37:BH:148:VAL:CB	37:BH:181:MET:HE3	2.14	0.58
37:BH:155:LEU:HB2	37:BH:158:ILE:CG1	2.26	0.58
39:BJ:62:TRP:CB	51:BV:35:ARG:HH12	2.15	0.58
40:BK:23:VAL:HG12	40:BK:24:THR:N	2.19	0.58
41:BL:39:LEU:O	41:BL:43:GLY:O	2.22	0.58
41:BL:98:LYS:H	41:BL:98:LYS:NZ	1.90	0.58
43:BN:27:ALA:HB2	43:BN:85:LEU:CD2	2.34	0.58
49:BT:49:LEU:HD12	49:BT:50:LYS:N	2.19	0.58
52:BW:3:ARG:CZ	52:BW:45:VAL:CG1	2.78	0.58
55:CA:2:ILE:HG23	55:CA:268:ALA:CA	2.33	0.58
55:CA:17:GLY:CA	57:CA:701:GCP:O2A	2.49	0.58
55:CA:67:ASP:CB	55:CA:191:VAL:HG22	2.34	0.58
55:CA:69:ARG:HH11	55:CA:253:LYS:HZ2	0.62	0.58
55:CA:111:PHE:CE2	55:CA:361:ARG:NH1	2.71	0.58
55:CA:228:ARG:HA	55:CA:267:LEU:CD1	2.34	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:250:LYS:C	55:CA:273:ILE:HD11	2.23	0.58
55:CA:267:LEU:HD23	55:CA:268:ALA:H	1.68	0.58
55:CA:383:SER:N	55:CA:384:ARG:HG2	2.12	0.58
55:CA:400:TYR:CE1	55:CA:444:PRO:HD3	2.35	0.58
1:AA:14:A:N7	1:AA:15:G:C8	2.72	0.57
1:AA:65:C:C2	1:AA:66:C:C5	2.92	0.57
1:AA:94:G:N2	1:AA:95:G:N3	2.51	0.57
1:AA:360:G:O5'	1:AA:360:G:H8	1.87	0.57
1:AA:386:G:H4'	1:AA:387:U:H5	1.68	0.57
1:AA:392:C:C5'	1:AA:409:C:H5''	2.34	0.57
1:AA:500:G:H1'	1:AA:502:A:OP2	2.04	0.57
1:AA:564:C:H42	1:AA:578:A:N6	2.02	0.57
1:AA:580:C:C2	1:AA:581:C:C5	2.92	0.57
1:AA:612:G:C4'	1:AA:616:A:N6	2.53	0.57
1:AA:650:C:P	31:Ae:21:LYS:NZ	2.77	0.57
1:AA:763:G:N3	1:AA:765:G:H1'	2.19	0.57
1:AA:814:C:C2	1:AA:815:C:C5	2.92	0.57
1:AA:1061:U:H3'	10:AJ:52:ILE:HG12	1.86	0.57
1:AA:1127:A:H3'	1:AA:1127:A:C8	2.39	0.57
1:AA:1137:G:N7	1:AA:1138:G:C8	2.72	0.57
1:AA:1142:U:H2'	1:AA:1142(A):A:C8	2.39	0.57
1:AA:1264:G:OP1	28:Ab:15:ARG:NH2	2.35	0.57
1:AA:1439:A:C2	1:AA:1553:A:C6	2.91	0.57
1:AA:1448:G:H2'	1:AA:1449:A:H8	1.68	0.57
1:AA:1471:A:C8	1:AA:1521:G:N1	2.72	0.57
1:AA:1492:G:H5'	1:AA:1493:C:OP2	2.03	0.57
1:AA:1538:G:C2	1:AA:1539:G:N3	2.72	0.57
1:AA:1602:U:OP2	1:AA:1602:U:C4	2.57	0.57
1:AA:1664:A:C8	1:AA:1664:A:C3'	2.86	0.57
1:AA:1669:A:C5'	1:AA:2550:G:OP1	2.46	0.57
1:AA:1698:A:O2'	1:AA:1699:G:C3'	2.51	0.57
1:AA:1804:C:P	4:AD:257:LEU:HD22	2.44	0.57
1:AA:1913:A:N7	34:BA:1494:G:H5''	2.19	0.57
1:AA:1920:C:H1'	1:AA:1921:G:P	2.44	0.57
1:AA:1955:U:OP2	1:AA:1956:U:O4	2.22	0.57
1:AA:1971:A:C2	4:AD:239:ARG:HB3	2.39	0.57
1:AA:1999:C:H2'	1:AA:2000:G:C5'	2.34	0.57
1:AA:2013:A:H2'	1:AA:2014:A:O5'	2.04	0.57
1:AA:2051:A:H3'	1:AA:2578:G:H5''	1.86	0.57
1:AA:2097:C:H2'	1:AA:2098:U:O4'	2.04	0.57
1:AA:2135:A:N7	1:AA:2160:G:C1'	2.66	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2216:G:H21	4:AD:150:LYS:NZ	2.02	0.57
1:AA:2224:G:O2'	1:AA:2226:C:C5	2.57	0.57
1:AA:2227:A:C5	1:AA:2228:G:C8	2.92	0.57
1:AA:2377:A:H2'	1:AA:2378:A:C8	2.39	0.57
1:AA:2445:G:C2'	1:AA:2446:G:C8	2.67	0.57
1:AA:2466:C:H5''	32:Af:5:ALA:HB1	1.86	0.57
1:AA:2472:G:H3'	1:AA:2475:C:H42	1.69	0.57
1:AA:2553:G:O6	1:AA:2583:G:O2'	2.21	0.57
1:AA:2584:U:C6	1:AA:2584:U:C3'	2.86	0.57
1:AA:2630:G:N2	1:AA:2789:C:N3	2.52	0.57
1:AA:2853:C:O2'	1:AA:2854:G:H5'	2.03	0.57
3:AC:10:LEU:HD11	3:AC:32:LEU:CD2	2.33	0.57
3:AC:89:ALA:C	3:AC:154:ARG:HA	2.28	0.57
3:AC:116:THR:HG22	3:AC:149:ILE:HB	1.86	0.57
4:AD:10:THR:N	4:AD:11:PRO:CD	2.67	0.57
4:AD:124:PRO:O	4:AD:126:GLN:N	2.33	0.57
5:AE:23:VAL:O	5:AE:183:LEU:HA	2.03	0.57
5:AE:51:PHE:CE1	5:AE:75:VAL:HG22	2.39	0.57
5:AE:105:THR:CG2	5:AE:199:ARG:NH2	2.67	0.57
5:AE:109:LYS:CA	5:AE:191:PRO:HD3	2.35	0.57
6:AF:106:ARG:CG	6:AF:107:LYS:N	2.65	0.57
8:AH:17:VAL:CG2	8:AH:45:VAL:HG21	2.32	0.57
9:AI:54:ALA:C	9:AI:83:TYR:O	2.47	0.57
10:AJ:22:PRO:O	10:AJ:24:GLY:HA3	2.04	0.57
10:AJ:33:ASN:HD22	10:AJ:62:ASP:N	2.02	0.57
11:AK:13:TRP:HA	11:AK:51:PHE:O	2.04	0.57
11:AK:97:ARG:O	11:AK:100:GLU:CB	2.51	0.57
11:AK:134:ARG:O	11:AK:137:LYS:HE3	2.03	0.57
12:AL:35:VAL:HA	12:AL:61:VAL:HG11	1.85	0.57
12:AL:39:ILE:O	12:AL:58:VAL:HA	2.03	0.57
14:AN:11:LYS:HZ3	14:AN:73:PRO:HG3	1.68	0.57
15:AO:65:LEU:C	15:AO:65:LEU:CD2	2.77	0.57
18:AR:3:ARG:O	18:AR:4:ALA:HB2	2.02	0.57
18:AR:27:LEU:C	18:AR:29:SER:N	2.62	0.57
22:AV:29:GLU:HB2	22:AV:32:PRO:O	2.03	0.57
23:AW:44:PHE:CD2	23:AW:48:PHE:CE2	2.91	0.57
23:AW:166:SER:OG	23:AW:167:PRO:CD	2.49	0.57
25:AY:23:LYS:CE	25:AY:55:LEU:HD21	2.33	0.57
26:AZ:26:LEU:HB2	26:AZ:28:LEU:CD2	2.28	0.57
28:Ab:46:CYS:HB2	28:Ab:47:PRO:CD	2.29	0.57
29:Ac:16:CYS:CB	29:Ac:49:HIS:CA	2.67	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:51:GLU:OE2	29:Ac:52:VAL:CA	2.52	0.57
30:Ad:42:LEU:HD22	30:Ad:44:PRO:HG3	1.86	0.57
32:Af:10:ILE:C	32:Af:12:ASP:H	2.08	0.57
34:BA:262:A:C6	34:BA:263:A:N6	2.71	0.57
34:BA:267:C:OP2	50:BU:67:LYS:NZ	2.34	0.57
34:BA:322:C:O2'	53:BX:23:ARG:HB2	2.04	0.57
34:BA:341:C:O2'	34:BA:342:C:H5'	2.04	0.57
34:BA:346:G:N2	34:BA:347:G:C5	2.72	0.57
34:BA:644:G:C2'	34:BA:645:C:H5'	2.33	0.57
34:BA:666:G:C2	34:BA:741:G:N3	2.71	0.57
34:BA:877:C:OP1	41:BL:88:LYS:HD3	2.04	0.57
34:BA:889:A:H5''	34:BA:890:G:OP1	2.04	0.57
34:BA:924:C:C2	34:BA:925:G:N7	2.72	0.57
34:BA:965:A:H1'	34:BA:969:A:C8	2.39	0.57
34:BA:986:A:C8	52:BW:55:LYS:HE3	2.39	0.57
34:BA:1104:G:H2'	34:BA:1105:A:C8	2.39	0.57
34:BA:1221:G:C5'	52:BW:52:TYR:C	2.70	0.57
34:BA:1227:A:H5'	52:BW:81:ARG:NE	2.08	0.57
34:BA:1316:G:HO2'	34:BA:1318:A:N6	2.02	0.57
35:BF:78:GLN:O	35:BF:94:ASN:ND2	2.37	0.57
36:BG:26:LYS:O	36:BG:28:GLN:HG3	2.04	0.57
36:BG:38:ARG:HG3	36:BG:94:LEU:HD21	1.86	0.57
36:BG:55:VAL:HG22	36:BG:68:VAL:CG1	2.32	0.57
37:BH:17:VAL:O	37:BH:19:LEU:HD23	2.04	0.57
37:BH:85:LYS:NZ	37:BH:85:LYS:HB3	2.18	0.57
37:BH:132:ARG:NH1	37:BH:132:ARG:CG	2.63	0.57
37:BH:146:ILE:O	37:BH:147:ALA:HB2	2.03	0.57
37:BH:165:MET:CE	37:BH:167:GLY:H	2.15	0.57
37:BH:192:GLU:H	37:BH:192:GLU:CD	2.11	0.57
39:BJ:16:GLN:HG3	39:BJ:17:SER:H	1.67	0.57
39:BJ:95:GLU:H	39:BJ:96:PRO:HD3	1.67	0.57
40:BK:69:VAL:HG21	40:BK:104:LEU:CG	2.34	0.57
40:BK:75:VAL:HG12	40:BK:76:ARG:N	2.19	0.57
41:BL:5:PRO:CA	41:BL:8:ASP:HB3	2.34	0.57
41:BL:67:PRO:HD2	41:BL:76:PRO:HB3	1.85	0.57
42:BM:50:LEU:HD23	42:BM:50:LEU:C	2.29	0.57
43:BN:39:PRO:CA	43:BN:70:ARG:HH11	2.17	0.57
44:BO:84:VAL:CG2	44:BO:111:ASP:H	2.17	0.57
45:BP:5:PRO:O	45:BP:6:THR:CG2	2.52	0.57
46:BQ:10:PRO:HB2	46:BQ:45:VAL:HG21	1.86	0.57
47:BR:40:CYS:O	47:BR:44:LEU:HB3	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:39:LEU:HD21	48:BS:56:LEU:HD22	1.85	0.57
48:BS:54:ARG:NE	48:BS:58:MET:HE2	2.18	0.57
48:BS:60:VAL:HA	48:BS:63:ARG:CD	2.34	0.57
51:BV:46:GLU:N	51:BV:46:GLU:OE2	2.37	0.57
51:BV:58:LEU:HD22	51:BV:62:GLU:CG	2.32	0.57
53:BX:65:LYS:O	53:BX:68:LYS:CG	2.52	0.57
55:CA:276:ILE:HG22	55:CA:277:THR:HG23	1.86	0.57
55:CA:313:VAL:CG1	55:CA:314:ASN:H	2.16	0.57
55:CA:424:GLY:O	55:CA:441:TYR:CE2	2.55	0.57
55:CA:426:LEU:HD21	55:CA:429:MET:CB	2.29	0.57
1:AA:182:A:OP2	1:AA:182:A:H8	1.87	0.57
1:AA:217:G:H2'	1:AA:218:A:O5'	2.04	0.57
1:AA:572:A:C2	1:AA:2033:A:C2	2.92	0.57
1:AA:961:C:C4	1:AA:2031:A:C2	2.91	0.57
1:AA:1055:G:O3'	9:AI:34:ALA:N	2.36	0.57
1:AA:1131:G:N7	1:AA:2025:C:H4'	2.20	0.57
1:AA:1199:U:C2	1:AA:1200:C:C5	2.92	0.57
1:AA:1471:A:C4	1:AA:1521:G:N2	2.72	0.57
1:AA:1526:G:N2	1:AA:1546:C:C4	2.72	0.57
1:AA:1535:U:H3'	1:AA:1536:A:C8	2.38	0.57
1:AA:1570:A:C2	1:AA:1571:A:N7	2.73	0.57
1:AA:1934:C:H4'	1:AA:1974:C:H4'	1.86	0.57
1:AA:1950:G:C5	1:AA:1951:U:C5	2.92	0.57
1:AA:1982:C:C4	1:AA:1983:C:N4	2.72	0.57
1:AA:2106:G:O2'	1:AA:2107:C:H5'	2.03	0.57
1:AA:2124:G:H21	3:AC:218:MET:N	2.01	0.57
1:AA:2171:A:O2'	1:AA:2172:U:O5'	2.22	0.57
1:AA:2332:U:O4'	1:AA:2336:A:N6	2.37	0.57
1:AA:2508:G:C2'	1:AA:2509:G:H5'	2.33	0.57
1:AA:2637:U:OP2	1:AA:2637:U:H6	1.87	0.57
1:AA:2719:G:H8	1:AA:2719:G:O5'	1.87	0.57
1:AA:2748:A:C6	1:AA:2757:A:N6	2.72	0.57
1:AA:2768:C:O2'	1:AA:2769:C:H5'	2.04	0.57
2:AB:69:G:C8	2:AB:69:G:OP2	2.56	0.57
3:AC:22:ILE:HG12	3:AC:189:ILE:HG21	1.86	0.57
3:AC:33:ALA:HB1	3:AC:39:GLU:OE1	2.04	0.57
3:AC:89:ALA:CA	3:AC:154:ARG:HG3	2.32	0.57
4:AD:7:LYS:HD3	4:AD:9:TYR:CZ	2.38	0.57
4:AD:132:PRO:HD3	4:AD:190:TYR:CZ	2.38	0.57
4:AD:146:GLU:CA	4:AD:154:LYS:HG2	2.34	0.57
4:AD:172:TYR:HD1	4:AD:185:VAL:C	2.13	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:181:GLU:CB	4:AD:268:ARG:HE	2.14	0.57
5:AE:59:VAL:HG12	5:AE:62:PRO:HD2	1.86	0.57
6:AF:203:GLN:N	6:AF:203:GLN:NE2	2.52	0.57
7:AG:9:ARG:HD2	7:AG:10:LYS:HZ3	1.66	0.57
7:AG:79:ASN:O	7:AG:82:LEU:HD23	2.05	0.57
8:AH:163:TYR:O	8:AH:164:TYR:O	2.21	0.57
10:AJ:17:ALA:CB	10:AJ:41:PHE:CB	2.80	0.57
11:AK:74:ARG:HD2	11:AK:82:LEU:HD13	1.86	0.57
12:AL:97:ARG:HE	12:AL:98:VAL:C	2.12	0.57
13:AM:49:ARG:NH1	31:Ae:55:ALA:HB2	2.19	0.57
14:AN:36:ALA:HA	14:AN:129:THR:HG22	1.86	0.57
14:AN:112:GLU:CA	14:AN:115:MET:HB2	2.34	0.57
16:AP:9:ARG:O	16:AP:12:PHE:CD2	2.56	0.57
16:AP:105:ALA:O	16:AP:108:GLY:N	2.36	0.57
17:AQ:10:VAL:HB	17:AQ:11:GLU:OE2	2.04	0.57
17:AQ:22:PHE:O	17:AQ:24:PRO:HD3	2.04	0.57
19:AS:28:GLU:N	19:AS:29:PRO:CD	2.67	0.57
20:AT:33:ARG:CD	20:AT:37:ARG:HD3	2.35	0.57
21:AU:31:HIS:CE1	21:AU:33:LYS:HD2	2.39	0.57
21:AU:79:ALA:C	21:AU:80:ILE:HD13	2.29	0.57
22:AV:47:LYS:CE	22:AV:49:VAL:HG11	2.34	0.57
24:AX:40:GLN:HG2	24:AX:45:PHE:HD2	1.69	0.57
25:AY:55:LEU:C	25:AY:58:VAL:HG13	2.28	0.57
25:AY:59:LEU:HD11	25:AY:63:ARG:HD3	1.86	0.57
26:AZ:8:LEU:HB2	26:AZ:33:GLN:HB3	1.86	0.57
27:Aa:64:GLY:O	27:Aa:67:TYR:N	2.37	0.57
30:Ad:35:ARG:HH11	30:Ad:35:ARG:HB2	1.69	0.57
34:BA:101:A:C4	34:BA:102:G:N7	2.72	0.57
34:BA:340:U:C2	34:BA:341:C:C5	2.92	0.57
34:BA:505:G:C6	34:BA:535:A:C2	2.92	0.57
34:BA:523:A:O5'	34:BA:523:A:C8	2.57	0.57
34:BA:565:U:H2'	34:BA:566:G:N7	2.19	0.57
34:BA:619:U:O2	37:BH:133:VAL:HG13	2.03	0.57
34:BA:659:U:OP1	48:BS:9:GLN:CD	2.46	0.57
34:BA:887:G:H2'	34:BA:888:G:H8	1.67	0.57
34:BA:891:U:H5	34:BA:906:G:C2	2.21	0.57
34:BA:968:A:C5'	34:BA:969:A:O5'	2.51	0.57
34:BA:1034:G:H2'	34:BA:1035:A:C8	2.38	0.57
34:BA:1125:U:H5''	43:BN:38:ILE:HG21	1.86	0.57
34:BA:1134:G:C6	34:BA:1135:U:H1'	2.39	0.57
34:BA:1147:C:N3	34:BA:1148:U:C5	2.72	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1330:U:H5''	46:BQ:70:LEU:HD23	1.85	0.57
34:BA:1367:C:OP1	42:BM:115:GLY:CA	2.51	0.57
34:BA:1430:C:N3	34:BA:1431:C:H5	2.02	0.57
34:BA:1449:C:O2	34:BA:1450:U:O4'	2.22	0.57
35:BF:150:SER:HA	35:BF:153:ARG:CG	2.33	0.57
35:BF:155:LEU:HB3	35:BF:159:PRO:HG3	1.79	0.57
35:BF:169:LYS:C	35:BF:171:ALA:N	2.62	0.57
37:BH:15:GLU:OE2	37:BH:66:ARG:NH1	2.37	0.57
37:BH:61:LYS:HZ1	37:BH:72:GLU:CD	2.11	0.57
37:BH:114:ARG:HH11	37:BH:114:ARG:CG	2.17	0.57
37:BH:150:GLU:C	37:BH:152:SER:H	2.12	0.57
38:BI:37:ARG:NH1	38:BI:111:GLU:HB2	2.20	0.57
38:BI:80:ILE:HG21	38:BI:142:LEU:HD21	1.86	0.57
38:BI:105:VAL:O	38:BI:109:ILE:HG22	2.04	0.57
39:BJ:57:GLN:N	39:BJ:57:GLN:OE1	2.37	0.57
39:BJ:77:ARG:N	39:BJ:80:ARG:NH2	2.52	0.57
40:BK:34:GLY:O	40:BK:36:LYS:N	2.37	0.57
41:BL:38:ILE:HA	41:BL:41:ARG:HB2	1.85	0.57
42:BM:50:LEU:HD11	42:BM:56:LEU:CA	2.23	0.57
44:BO:20:TYR:CZ	44:BO:83:ILE:HG12	2.39	0.57
45:BP:10:LEU:HD21	45:BP:15:ARG:HE	1.69	0.57
46:BQ:70:LEU:HD11	46:BQ:74:VAL:HG21	1.86	0.57
47:BR:23:ARG:C	47:BR:33:VAL:HG11	2.28	0.57
47:BR:26:ARG:HE	47:BR:43:CYS:C	2.11	0.57
48:BS:63:ARG:NH2	48:BS:87:ILE:HG21	2.19	0.57
49:BT:15:PRO:HD2	49:BT:42:ARG:NE	2.19	0.57
52:BW:40:ILE:CG1	52:BW:71:LEU:HD23	2.34	0.57
55:CA:81:PHE:HA	55:CA:365:HIS:CB	2.11	0.57
55:CA:99:VAL:HB	55:CA:127:ILE:CD1	2.31	0.57
55:CA:468:THR:O	55:CA:469:PHE:HB3	2.03	0.57
1:AA:6:A:C2	1:AA:2897:U:C2'	2.78	0.57
1:AA:120:U:O2	1:AA:120:U:C2'	2.51	0.57
1:AA:128:C:H2'	1:AA:129:C:C6	2.38	0.57
1:AA:172:C:N1	1:AA:173:G:N7	2.53	0.57
1:AA:209:C:H2'	1:AA:210:C:C5'	2.33	0.57
1:AA:243:U:O2	1:AA:243:U:C2'	2.53	0.57
1:AA:361:G:C2'	1:AA:362:U:O4'	2.52	0.57
1:AA:388:G:P	27:Aa:23:GLU:HB3	2.43	0.57
1:AA:457:A:C2	1:AA:470:A:H5'	2.39	0.57
1:AA:484:C:OP1	22:AV:48:ALA:HB1	2.04	0.57
1:AA:573:G:H2'	1:AA:574:C:H5''	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:742:G:H5'	1:AA:1675:C:O2'	2.04	0.57
1:AA:952:G:C6	1:AA:966:G:C6	2.92	0.57
1:AA:1024:G:OP2	1:AA:1025:G:C2	2.58	0.57
1:AA:1033:U:H5'	32:Af:16:VAL:CG1	2.33	0.57
1:AA:1140:C:H5'	11:AK:65:LYS:NZ	2.19	0.57
1:AA:1177:A:C2	1:AA:1178:C:C2	2.93	0.57
1:AA:1296:G:H5''	1:AA:2709:G:O2'	2.05	0.57
1:AA:1389:G:H2'	1:AA:1390:U:C6	2.39	0.57
1:AA:1496:A:H2'	1:AA:1496:A:N3	2.18	0.57
1:AA:1531:C:O2	1:AA:1532:C:C5	2.56	0.57
1:AA:1579:A:H61	1:AA:1581:G:N2	2.01	0.57
1:AA:1699:G:H2'	1:AA:1763:G:H22	1.69	0.57
1:AA:1775:U:O2'	1:AA:1776:G:C5'	2.47	0.57
1:AA:1784:A:H4'	1:AA:1785:A:O4'	2.05	0.57
1:AA:1791:A:O3'	4:AD:206:LEU:CD2	2.52	0.57
1:AA:1825:A:O2'	4:AD:252:TRP:CH2	2.55	0.57
1:AA:1855:G:C6	1:AA:1856:G:C5	2.93	0.57
1:AA:2008:C:O2'	1:AA:2009:G:H5'	2.04	0.57
1:AA:2118:U:C5	1:AA:2147:G:N7	2.72	0.57
1:AA:2211:G:N3	1:AA:2211:G:C3'	2.64	0.57
1:AA:2243:U:O2	1:AA:2244:U:C6	2.57	0.57
1:AA:2272:U:OP1	24:AX:18:ALA:HB2	2.04	0.57
1:AA:2432:A:N1	27:Aa:31:ILE:HD13	2.19	0.57
1:AA:2479:G:H5''	1:AA:2537:U:C4'	2.35	0.57
1:AA:2523:G:C1'	1:AA:2765:A:H62	2.17	0.57
1:AA:2687:U:O2	1:AA:2687:U:C2'	2.51	0.57
1:AA:2721:A:C2	1:AA:2873:A:C6	2.92	0.57
1:AA:2749:A:N1	1:AA:2750:A:N6	2.45	0.57
1:AA:2845:G:H2'	1:AA:2846:G:H8	1.68	0.57
1:AA:2859:G:O2'	1:AA:2860:A:H5'	2.04	0.57
2:AB:32:C:C2'	2:AB:33:G:C8	2.87	0.57
4:AD:178:PRO:CG	4:AD:179:SER:H	2.14	0.57
4:AD:228:PRO:C	4:AD:230:ASP:N	2.57	0.57
5:AE:113:PHE:O	5:AE:158:GLY:HA2	2.04	0.57
5:AE:122:PHE:CD1	5:AE:122:PHE:N	2.72	0.57
6:AF:29:ASN:ND2	6:AF:29:ASN:C	2.62	0.57
7:AG:12:TYR:CG	7:AG:13:GLU:N	2.72	0.57
7:AG:29:TRP:C	7:AG:31:VAL:N	2.56	0.57
7:AG:30:GLU:HG2	7:AG:33:ARG:CD	2.34	0.57
8:AH:137:ASP:HB3	8:AH:140:LYS:HE2	1.86	0.57
12:AL:16:ALA:CB	12:AL:45:GLU:CB	2.81	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:77:ILE:HG12	17:AQ:75:ILE:CD1	2.34	0.57
12:AL:106:LEU:O	12:AL:109:LYS:CA	2.51	0.57
13:AM:65:ARG:HH21	13:AM:67:MET:H	1.49	0.57
13:AM:81:GLN:O	13:AM:86:LYS:HG2	2.04	0.57
13:AM:149:GLU:CD	13:AM:150:ALA:N	2.58	0.57
14:AN:56:ARG:O	14:AN:60:ARG:HG3	2.04	0.57
14:AN:134:ARG:NE	14:AN:137:TYR:CA	2.64	0.57
15:AO:31:HIS:CD2	15:AO:34:ILE:HD11	2.39	0.57
16:AP:96:GLY:O	16:AP:99:LYS:N	2.38	0.57
17:AQ:55:ASN:O	17:AQ:57:PHE:HE1	1.87	0.57
17:AQ:68:TYR:CD1	17:AQ:68:TYR:C	2.81	0.57
17:AQ:68:TYR:CE1	17:AQ:69:GLY:O	2.57	0.57
20:AT:28:SER:HA	20:AT:70:TYR:CA	2.27	0.57
20:AT:76:VAL:HA	20:AT:104:THR:HG22	1.87	0.57
23:AW:31:ARG:HG2	23:AW:31:ARG:HH11	1.69	0.57
23:AW:78:LYS:O	23:AW:80:ARG:N	2.37	0.57
23:AW:116:VAL:HA	23:AW:175:VAL:O	2.05	0.57
23:AW:116:VAL:HG12	23:AW:176:PRO:HA	1.86	0.57
23:AW:118:GLN:HB2	23:AW:144:LEU:CD2	2.27	0.57
23:AW:161:VAL:CG1	23:AW:162:GLU:H	2.15	0.57
23:AW:167:PRO:O	23:AW:168:GLU:HB3	2.03	0.57
25:AY:32:PHE:N	25:AY:32:PHE:CD1	2.72	0.57
26:AZ:4:LEU:CD2	26:AZ:56:VAL:HG23	2.27	0.57
26:AZ:5:LYS:HE2	26:AZ:57:GLU:OE1	2.04	0.57
26:AZ:14:GLY:C	26:AZ:15:TYR:CD1	2.83	0.57
26:AZ:45:GLY:HA2	26:AZ:48:GLU:OE1	2.04	0.57
27:Aa:18:CYS:SG	27:Aa:19:GLY:N	2.71	0.57
27:Aa:47:GLN:HA	27:Aa:52:THR:HB	1.83	0.57
28:Ab:50:GLY:O	28:Ab:51:TYR:HB3	2.04	0.57
29:Ac:27:LYS:CG	29:Ac:29:ASN:HD21	2.15	0.57
31:Ae:29:LYS:NZ	31:Ae:36:LYS:NZ	2.52	0.57
34:BA:287:U:H2'	34:BA:288:A:C5'	2.34	0.57
34:BA:448:A:O2'	34:BA:449:C:H5'	2.04	0.57
34:BA:453:A:H8	34:BA:453:A:OP2	1.86	0.57
34:BA:509:A:C5	34:BA:510:A:C6	2.92	0.57
34:BA:587:G:N2	34:BA:755:G:C5	2.72	0.57
34:BA:815:A:H2	34:BA:1527:C:O2	1.87	0.57
34:BA:993:G:O2'	34:BA:994:A:P	2.63	0.57
34:BA:1117:G:H5'	34:BA:1118:C:OP2	2.03	0.57
34:BA:1135:U:O3'	34:BA:1136:U:H6	1.86	0.57
34:BA:1216:G:H2'	34:BA:1217:C:C6	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1269:A:H1'	34:BA:1312:G:N2	2.17	0.57
34:BA:1316:G:H5'	34:BA:1360:A:C8	2.39	0.57
34:BA:1333:A:H2'	34:BA:1334:G:C8	2.39	0.57
34:BA:1348:U:O2	34:BA:1349:A:C8	2.57	0.57
34:BA:1376:U:O5'	34:BA:1376:U:H6	1.85	0.57
34:BA:1447:G:H2'	34:BA:1448:C:C6	2.39	0.57
34:BA:1488:G:C2	34:BA:1489:G:C5	2.93	0.57
35:BF:19:HIS:CA	35:BF:39:ILE:HD11	2.34	0.57
35:BF:182:ILE:H	35:BF:182:ILE:CD1	2.17	0.57
37:BH:52:SER:OG	37:BH:54:TYR:HB3	2.05	0.57
38:BI:84:PHE:CD1	38:BI:134:ALA:HA	2.39	0.57
39:BJ:19:LEU:HD11	39:BJ:23:LYS:HZ2	1.70	0.57
39:BJ:50:TYR:CZ	51:BV:77:GLY:HA2	2.39	0.57
39:BJ:75:LEU:O	39:BJ:78:GLU:HB3	2.04	0.57
40:BK:71:PRO:CG	40:BK:96:GLN:HA	2.34	0.57
41:BL:32:LYS:HG3	41:BL:59:LEU:CD1	2.34	0.57
42:BM:11:LYS:HG2	42:BM:11:LYS:O	2.03	0.57
42:BM:15:ALA:HB3	42:BM:77:ILE:N	2.19	0.57
44:BO:13:GLN:CB	44:BO:76:GLY:HA3	2.33	0.57
45:BP:16:GLU:O	45:BP:17:LYS:HB3	2.04	0.57
45:BP:41:ARG:CG	45:BP:42:THR:N	2.61	0.57
45:BP:119:LYS:HB3	45:BP:120:TYR:HD1	1.69	0.57
52:BW:51:VAL:CG2	52:BW:60:VAL:CG2	2.83	0.57
52:BW:62:ILE:HD11	52:BW:67:VAL:CG1	2.35	0.57
53:BX:49:ALA:HB3	53:BX:99:LEU:HD11	1.85	0.57
53:BX:104:LEU:O	53:BX:105:SER:O	2.21	0.57
55:CA:8:ILE:HD12	55:CA:96:LEU:HD12	1.83	0.57
55:CA:26:LEU:HD22	55:CA:26:LEU:H	1.68	0.57
55:CA:28:GLN:O	55:CA:60:ASN:HB3	2.03	0.57
55:CA:309:MET:C	55:CA:383:SER:OG	2.47	0.57
55:CA:496:ALA:HB2	55:CA:513:GLY:O	1.96	0.57
1:AA:197:A:C5	1:AA:2430:A:N7	2.73	0.57
1:AA:239:U:C1'	1:AA:259:G:H22	2.17	0.57
1:AA:270(J):G:H2'	1:AA:270(J):G:N3	2.18	0.57
1:AA:330:A:H2	1:AA:1210:A:H2'	1.70	0.57
1:AA:354:G:H3'	1:AA:354:G:OP2	2.05	0.57
1:AA:366:C:H5''	1:AA:403:U:H3	1.69	0.57
1:AA:468:G:N7	1:AA:469:G:C4	2.72	0.57
1:AA:581:C:H5''	18:AR:32:PHE:CG	2.39	0.57
1:AA:612:G:O2'	1:AA:615:G:H2'	2.03	0.57
1:AA:613:U:C5'	1:AA:614:U:C5	2.84	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:650:C:O2	1:AA:650:C:H2'	2.03	0.57
1:AA:670:A:H5''	1:AA:671:C:OP1	2.03	0.57
1:AA:811:U:C4	13:AM:23:PRO:CD	2.87	0.57
1:AA:977:G:C2	1:AA:978:G:H1'	2.39	0.57
1:AA:1020:A:O2'	1:AA:1021:A:C8	2.58	0.57
1:AA:1042:G:C2	1:AA:1114:G:O6	2.57	0.57
1:AA:1062:G:H1'	1:AA:1063:G:P	2.45	0.57
1:AA:1324:G:O2'	1:AA:1325:G:OP1	2.22	0.57
1:AA:1392:A:C6	1:AA:1393:A:C6	2.92	0.57
1:AA:1433:U:H3'	1:AA:1433:U:H6	1.68	0.57
1:AA:1652:A:N7	1:AA:1653:G:N3	2.52	0.57
1:AA:1833:U:O2'	1:AA:1834:U:OP1	2.14	0.57
1:AA:1857:G:O2'	1:AA:1885:A:N6	2.38	0.57
1:AA:2283:C:C6	1:AA:2389:G:N3	2.73	0.57
1:AA:2298:A:N1	1:AA:2321:G:C6	2.73	0.57
1:AA:2318:G:O5'	1:AA:2318:G:C8	2.54	0.57
1:AA:2619:C:O2'	1:AA:2620:C:C5'	2.51	0.57
1:AA:2667:C:C6	1:AA:2668:G:C8	2.92	0.57
1:AA:2762:G:N7	1:AA:2763:G:N7	2.53	0.57
1:AA:2777:G:O5'	1:AA:2777:G:C8	2.57	0.57
1:AA:2859:G:H2'	1:AA:2860:A:C8	2.40	0.57
1:AA:2869:G:C6	1:AA:2870:C:C4	2.92	0.57
2:AB:87:G:C2	2:AB:90:C:N3	2.72	0.57
3:AC:115:ALA:CB	3:AC:120:MET:SD	2.85	0.57
4:AD:151:LYS:HB2	4:AD:154:LYS:CE	2.33	0.57
4:AD:258:LYS:HA	4:AD:261:LYS:CD	2.34	0.57
4:AD:269:PHE:O	4:AD:270:ILE:HG13	2.05	0.57
5:AE:44:TYR:O	5:AE:81:ILE:HG23	2.04	0.57
5:AE:53:PRO:CD	5:AE:75:VAL:HG13	2.34	0.57
6:AF:106:ARG:HG3	6:AF:107:LYS:HG3	1.85	0.57
6:AF:194:MET:SD	6:AF:200:GLU:HG2	2.44	0.57
7:AG:125:PHE:CD2	7:AG:129:GLY:N	2.72	0.57
8:AH:11:VAL:HG21	8:AH:17:VAL:HG21	1.86	0.57
10:AJ:52:ILE:CD1	10:AJ:76:TYR:HD2	2.17	0.57
12:AL:18:LYS:CB	12:AL:45:GLU:HG3	2.24	0.57
12:AL:23:ARG:N	12:AL:23:ARG:CD	2.67	0.57
13:AM:113:LYS:HZ2	13:AM:115:LEU:CD1	2.15	0.57
14:AN:16:ARG:O	14:AN:17:LEU:HG	2.03	0.57
14:AN:48:GLU:CA	14:AN:51:ARG:HG3	2.33	0.57
14:AN:54:MET:HE1	14:AN:118:LEU:HD23	1.87	0.57
14:AN:116:GLU:CA	14:AN:119:ARG:HG3	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:69:VAL:O	16:AP:73:LEU:CD1	2.47	0.57
16:AP:103:GLU:HA	16:AP:106:ARG:HB3	1.85	0.57
17:AQ:104:ASN:O	17:AQ:108:ARG:NH1	2.38	0.57
18:AR:31:SER:C	18:AR:35:ALA:HB2	2.29	0.57
21:AU:39:ILE:HD12	21:AU:54:VAL:CG1	2.34	0.57
22:AV:19:LYS:C	22:AV:21:LYS:H	2.12	0.57
22:AV:74:PRO:HB2	22:AV:100:ALA:CB	2.34	0.57
22:AV:93:GLY:C	22:AV:95:LYS:H	2.11	0.57
22:AV:95:LYS:CG	22:AV:103:GLY:HA3	2.32	0.57
23:AW:116:VAL:CG2	23:AW:144:LEU:O	2.52	0.57
25:AY:20:VAL:HA	25:AY:55:LEU:CD2	2.29	0.57
26:AZ:40:THR:HG21	26:AZ:42:ALA:HB3	1.85	0.57
27:Aa:5:ILE:HD13	27:Aa:60:GLN:OE1	2.05	0.57
29:Ac:41:PRO:HG2	29:Ac:43:CYS:HB2	1.86	0.57
31:Ae:15:LYS:O	31:Ae:22:VAL:CA	2.50	0.57
34:BA:176:C:H2'	34:BA:177:C:H6	1.70	0.57
34:BA:191:G:H1'	53:BX:105:SER:CA	2.27	0.57
34:BA:197:A:O4'	34:BA:197:A:OP2	2.22	0.57
34:BA:261:U:C2'	34:BA:263:A:OP2	2.52	0.57
34:BA:296:U:O2'	34:BA:556:C:O2'	2.22	0.57
34:BA:508:C:H4'	34:BA:509:A:O5'	2.03	0.57
34:BA:543:C:N3	34:BA:544:G:N7	2.52	0.57
34:BA:547:A:H5'	34:BA:548:G:OP1	2.04	0.57
34:BA:582:U:C5'	48:BS:64:ARG:NH2	2.64	0.57
34:BA:591:U:H2'	34:BA:592:G:C8	2.39	0.57
34:BA:728:A:H5'	48:BS:54:ARG:HH22	1.69	0.57
34:BA:730:G:C5	34:BA:731:G:H1'	2.39	0.57
34:BA:789:U:O2'	34:BA:791:G:N7	2.32	0.57
34:BA:799:G:H3'	34:BA:800:G:C8	2.39	0.57
34:BA:952:U:C5'	34:BA:972:C:N4	2.65	0.57
34:BA:954:G:H2'	34:BA:955:U:O4'	2.04	0.57
34:BA:973:G:N1	34:BA:974:A:C6	2.73	0.57
34:BA:1143:G:N3	34:BA:1144:G:C8	2.71	0.57
34:BA:1321:C:C5	34:BA:1322:C:H3'	2.40	0.57
34:BA:1396:A:C2'	34:BA:1397:C:OP2	2.52	0.57
34:BA:1454:G:O3'	53:BX:32:ALA:O	2.21	0.57
35:BF:14:GLY:CA	35:BF:209:ARG:HH21	2.13	0.57
35:BF:70:PHE:HA	35:BF:163:PHE:O	2.04	0.57
35:BF:80:ILE:HD13	35:BF:211:ILE:HG22	1.86	0.57
35:BF:200:ILE:O	35:BF:200:ILE:HG22	2.02	0.57
37:BH:20:TYR:HB2	37:BH:27:TYR:HA	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:180:GLY:O	37:BH:181:MET:C	2.47	0.57
39:BJ:83:ASP:OD1	39:BJ:84:ASN:ND2	2.37	0.57
40:BK:64:GLN:O	40:BK:68:ASN:ND2	2.37	0.57
41:BL:13:ILE:CG2	41:BL:14:ARG:N	2.54	0.57
41:BL:28:ALA:O	41:BL:29:SER:OG	2.20	0.57
41:BL:88:LYS:HB2	41:BL:88:LYS:HZ3	1.69	0.57
43:BN:10:GLY:N	43:BN:16:LEU:HD11	2.19	0.57
44:BO:85:ARG:HG3	44:BO:85:ARG:NH1	2.18	0.57
46:BQ:84:ILE:CG1	46:BQ:86:CYS:HB3	2.34	0.57
49:BT:56:ALA:C	49:BT:60:LEU:HD12	2.29	0.57
51:BV:58:LEU:HB2	51:BV:63:GLN:OE1	2.04	0.57
52:BW:55:LYS:HG2	52:BW:55:LYS:O	2.03	0.57
53:BX:34:LYS:O	53:BX:38:LYS:HG3	2.04	0.57
55:CA:13:HIS:CD2	55:CA:106:MET:O	2.58	0.57
55:CA:18:LYS:CA	57:CA:701:GCP:O2B	2.46	0.57
55:CA:42:VAL:HG23	55:CA:43:MET:H	1.68	0.57
55:CA:52:ARG:HH12	55:CA:54:ILE:HG12	1.69	0.57
55:CA:83:GLY:O	55:CA:84:GLU:HG3	2.05	0.57
55:CA:89:MET:HG2	55:CA:119:TYR:CE2	2.39	0.57
55:CA:523:ILE:CG1	55:CA:587:ILE:O	2.51	0.57
1:AA:134:C:C2	1:AA:146:G:N2	2.73	0.57
1:AA:270(C):C:N4	1:AA:270(D):C:N4	2.51	0.57
1:AA:356:G:H3'	1:AA:357:A:C8	2.39	0.57
1:AA:558:G:O5'	11:AK:109:LYS:HD3	2.04	0.57
1:AA:758:C:H2'	1:AA:759:G:C8	2.40	0.57
1:AA:921:G:H4'	1:AA:2269:A:C8	2.38	0.57
1:AA:957:A:N1	1:AA:2459:A:H5'	2.19	0.57
1:AA:988:A:H5''	26:AZ:10:LYS:HE3	1.87	0.57
1:AA:1051:G:C1'	1:AA:2752:C:O5'	2.51	0.57
1:AA:1069:A:N1	1:AA:1096:A:OP1	2.37	0.57
1:AA:1085:A:H1'	1:AA:1086:A:P	2.44	0.57
1:AA:1394:U:H5''	1:AA:1604:C:OP1	2.04	0.57
1:AA:1416:G:O2'	1:AA:1417:C:C6	2.57	0.57
1:AA:1429:G:C4	1:AA:1568:G:C6	2.92	0.57
1:AA:1526:G:N2	1:AA:1545(A):A:H62	2.00	0.57
1:AA:1700:A:C8	1:AA:1701:A:C8	2.92	0.57
1:AA:1792:G:P	4:AD:206:LEU:HD21	2.44	0.57
1:AA:1810:A:C2'	1:AA:1811:G:H5'	2.32	0.57
1:AA:1935:G:C1'	1:AA:1964:G:N2	2.68	0.57
1:AA:1987:G:C2	1:AA:1988:C:C4	2.92	0.57
1:AA:2018:G:H8	1:AA:2018:G:OP2	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2333:A:C4'	1:AA:2335:A:O4'	2.52	0.57
1:AA:2596:U:O4	1:AA:2597:G:N1	2.38	0.57
1:AA:2755:C:O5'	1:AA:2755:C:H6	1.87	0.57
1:AA:2801:A:OP1	1:AA:2801:A:O3'	2.21	0.57
1:AA:2824:C:N4	1:AA:2825:C:C2	2.73	0.57
1:AA:2885:C:N3	1:AA:2886:G:H1'	2.20	0.57
1:AA:2886:G:C2	1:AA:2887:U:C6	2.92	0.57
2:AB:12:C:O4'	24:AX:74:ARG:HG2	2.05	0.57
2:AB:73:A:N6	2:AB:104:A:C1'	2.67	0.57
3:AC:181:PRO:O	3:AC:185:LEU:HG	2.04	0.57
4:AD:55:GLY:CA	4:AD:217:ARG:CZ	2.81	0.57
4:AD:92:ILE:HD11	4:AD:104:TYR:CD1	2.39	0.57
4:AD:211:ARG:C	4:AD:215:LEU:HD12	2.30	0.57
4:AD:244:ARG:O	4:AD:252:TRP:CD1	2.57	0.57
5:AE:16:ARG:HB3	5:AE:17:ASP:OD1	2.04	0.57
5:AE:59:VAL:C	5:AE:62:PRO:HD2	2.28	0.57
7:AG:12:TYR:CA	7:AG:15:VAL:HG22	2.33	0.57
7:AG:39:ILE:HG13	7:AG:157:ILE:CG1	2.34	0.57
7:AG:119:GLY:HA3	7:AG:180:PHE:CD1	2.39	0.57
10:AJ:55:VAL:CG2	10:AJ:69:THR:HG22	2.34	0.57
10:AJ:108:ALA:HB1	10:AJ:111:LYS:O	2.03	0.57
12:AL:42:SER:HA	12:AL:55:GLY:O	2.04	0.57
13:AM:65:ARG:NH2	13:AM:68:GLN:CD	2.62	0.57
13:AM:74:GLU:HB2	13:AM:107:LYS:HZ3	1.68	0.57
14:AN:47:ILE:O	14:AN:48:GLU:C	2.47	0.57
14:AN:115:MET:HA	14:AN:118:LEU:HD11	1.87	0.57
18:AR:88:ILE:H	18:AR:88:ILE:CD1	2.12	0.57
18:AR:105:VAL:O	18:AR:108:GLU:CD	2.47	0.57
19:AS:7:THR:O	19:AS:9:GLY:N	2.38	0.57
19:AS:13:ARG:NH2	19:AS:43:GLU:OE2	2.37	0.57
19:AS:67:GLY:C	19:AS:93:GLU:O	2.47	0.57
19:AS:72:VAL:O	19:AS:73:SER:O	2.23	0.57
20:AT:20:VAL:CG1	20:AT:21:VAL:N	2.67	0.57
21:AU:50:LYS:HZ3	21:AU:85:PRO:HG2	1.69	0.57
23:AW:31:ARG:NH1	23:AW:31:ARG:O	2.37	0.57
23:AW:166:SER:O	23:AW:168:GLU:N	2.35	0.57
25:AY:29:GLU:O	25:AY:32:PHE:HB2	2.04	0.57
34:BA:61:G:C6	34:BA:107:G:C6	2.92	0.57
34:BA:173:U:C5'	34:BA:197:A:O2'	2.53	0.57
34:BA:199:G:O2'	34:BA:200:G:H5'	2.04	0.57
34:BA:241:C:O2'	34:BA:242:C:H5'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:247:G:C6	34:BA:278:G:N1	2.73	0.57
34:BA:295:C:O2'	34:BA:296:U:H5'	2.04	0.57
34:BA:391:G:C6	34:BA:392:G:C5	2.92	0.57
34:BA:430:A:OP1	37:BH:9:CYS:CB	2.51	0.57
34:BA:434:U:C2	34:BA:435:C:C5	2.93	0.57
34:BA:752:G:OP2	34:BA:752:G:C8	2.58	0.57
34:BA:872:A:C2'	34:BA:873:A:C5'	2.82	0.57
34:BA:970:C:H4'	34:BA:972:C:C6	2.38	0.57
34:BA:1038:C:H2'	34:BA:1039:C:C5	2.39	0.57
34:BA:1085:U:C5'	34:BA:1094:G:N2	2.65	0.57
34:BA:1167:A:C2	34:BA:1169:A:C2	2.92	0.57
34:BA:1269:A:H8	34:BA:1270:C:C1'	2.15	0.57
34:BA:1315:U:O5'	34:BA:1315:U:H6	1.87	0.57
34:BA:1494:G:H3'	34:BA:1494:G:P	2.43	0.57
35:BF:48:MET:HE3	35:BF:51:LEU:HD11	1.85	0.57
35:BF:97:TRP:CZ2	35:BF:102:LEU:CD1	2.82	0.57
35:BF:162:ILE:O	35:BF:185:ILE:CD1	2.53	0.57
36:BG:49:SER:C	36:BG:51:GLY:H	2.11	0.57
37:BH:98:GLU:O	37:BH:100:ARG:N	2.37	0.57
37:BH:170:VAL:CG1	37:BH:174:LEU:HB2	2.34	0.57
38:BI:20:GLN:NE2	38:BI:21:ALA:H	2.03	0.57
38:BI:56:GLN:H	38:BI:56:GLN:CD	2.12	0.57
40:BK:113:GLU:HB2	40:BK:118:VAL:HG11	1.87	0.57
41:BL:4:ASP:O	41:BL:5:PRO:C	2.45	0.57
41:BL:8:ASP:OD2	41:BL:8:ASP:C	2.46	0.57
43:BN:9:ARG:CB	43:BN:9:ARG:HH11	2.17	0.57
43:BN:16:LEU:HB3	43:BN:70:ARG:HG2	1.86	0.57
44:BO:32:ILE:CG2	44:BO:40:ILE:HD11	2.22	0.57
45:BP:23:LYS:O	45:BP:24:VAL:HG23	2.05	0.57
46:BQ:16:ASP:H	46:BQ:34:LEU:HD21	1.67	0.57
46:BQ:91:ARG:O	46:BQ:96:LEU:CD2	2.53	0.57
50:BU:98:LEU:HD13	50:BU:102:GLY:O	2.04	0.57
52:BW:21:GLU:O	52:BW:24:ALA:CB	2.52	0.57
55:CA:19:THR:OG1	55:CA:22:VAL:HG22	2.05	0.57
55:CA:50:LYS:NZ	55:CA:368:VAL:CG2	2.67	0.57
55:CA:64:ILE:H	55:CA:65:LYS:CG	2.16	0.57
55:CA:488:LEU:CD1	55:CA:525:GLY:HA3	2.21	0.57
1:AA:137(A):G:N2	1:AA:142:G:C2	2.73	0.57
1:AA:246:C:N4	1:AA:252:G:H1	2.01	0.57
1:AA:253:C:C2'	1:AA:254:G:H5'	2.34	0.57
1:AA:363(B):G:P	1:AA:363(B):G:H3'	2.45	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:373:U:C2	1:AA:400:G:N2	2.73	0.57
1:AA:396:G:H5''	27:Aa:10:VAL:HG13	1.87	0.57
1:AA:431:U:H2'	1:AA:432:A:H5'	1.86	0.57
1:AA:448:U:O4	1:AA:583:G:N3	2.37	0.57
1:AA:659:C:H5'	6:AF:102:PRO:HD3	1.87	0.57
1:AA:800:A:HO2'	1:AA:801:G:P	2.27	0.57
1:AA:805:G:C2'	1:AA:806:C:OP1	2.53	0.57
1:AA:942:G:N1	1:AA:943:U:C4	2.73	0.57
1:AA:1302:A:C5'	1:AA:1303:G:OP2	2.50	0.57
1:AA:1324:G:H1'	1:AA:1616:A:H61	1.67	0.57
1:AA:1343:G:N2	1:AA:1405:U:H1'	2.19	0.57
1:AA:1387:C:C2	1:AA:1388:G:N7	2.72	0.57
1:AA:1399:C:P	21:AU:25:LYS:HZ3	2.27	0.57
1:AA:1496:A:N3	1:AA:1498:C:N4	2.50	0.57
1:AA:1780:A:O2'	1:AA:1781:C:OP1	2.22	0.57
1:AA:1934:C:H5'	1:AA:1974:C:C4'	2.30	0.57
1:AA:1943:U:O2'	1:AA:1944:U:P	2.63	0.57
1:AA:2097:C:H2'	1:AA:2098:U:C5'	2.34	0.57
1:AA:2197:U:H1'	1:AA:2198:A:C2	2.39	0.57
1:AA:2246:G:C4	1:AA:2426:A:C2	2.93	0.57
1:AA:2311:A:C2	7:AG:45:GLU:CD	2.82	0.57
1:AA:2472:G:C2'	1:AA:2475:C:H42	2.17	0.57
1:AA:2759:G:O2'	1:AA:2760:C:H5'	2.04	0.57
1:AA:2850:A:C2	15:AO:61:HIS:CE1	2.93	0.57
3:AC:53:ARG:C	3:AC:55:ASP:H	2.12	0.57
4:AD:34:VAL:O	4:AD:36:PRO:HD2	2.03	0.57
4:AD:133:LEU:CB	4:AD:136:ILE:HD11	2.26	0.57
4:AD:198:ASN:ND2	4:AD:201:HIS:HB2	2.19	0.57
5:AE:116:VAL:O	5:AE:117:MET:O	2.22	0.57
5:AE:178:GLU:O	5:AE:180:ASN:N	2.37	0.57
6:AF:39:TRP:CG	6:AF:40:GLN:N	2.73	0.57
6:AF:46:ARG:CA	6:AF:46:ARG:NE	2.66	0.57
6:AF:82:ILE:O	6:AF:83:PHE:HB3	2.04	0.57
6:AF:176:LEU:C	6:AF:178:PRO:CD	2.77	0.57
7:AG:170:ARG:HD3	7:AG:174:GLU:HB2	1.86	0.57
8:AH:149:ARG:NH2	8:AH:164:TYR:HB3	2.20	0.57
11:AK:82:LEU:O	11:AK:83:LYS:O	2.21	0.57
12:AL:73:ASP:HB3	17:AQ:79:HIS:CD2	2.39	0.57
12:AL:121:VAL:O	12:AL:122:LEU:HB2	2.03	0.57
13:AM:124:LYS:CA	13:AM:143:GLY:HA3	2.34	0.57
14:AN:9:TYR:CD1	14:AN:9:TYR:N	2.71	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:111:GLU:HB2	14:AN:113:GLN:NE2	2.18	0.57
15:AO:38:VAL:CG1	15:AO:39:PRO:HD3	2.33	0.57
15:AO:96:ARG:CG	15:AO:98:LEU:CD1	2.83	0.57
15:AO:99:LYS:HE2	28:Ab:43:HIS:CE1	2.39	0.57
16:AP:15:ARG:HG2	16:AP:15:ARG:HH11	1.69	0.57
16:AP:24:LEU:H	16:AP:86:ALA:HB2	1.70	0.57
17:AQ:7:ILE:CG1	17:AQ:8:LYS:H	2.16	0.57
19:AS:3:ALA:HA	19:AS:44:LYS:NZ	2.20	0.57
19:AS:68:LYS:HG2	19:AS:95:LEU:CD2	2.31	0.57
20:AT:48:ALA:HA	20:AT:51:LEU:CD2	2.26	0.57
20:AT:78:GLU:HG2	20:AT:99:ARG:HD2	1.86	0.57
20:AT:89:ALA:O	20:AT:90:ARG:C	2.46	0.57
22:AV:32:PRO:C	22:AV:34:LYS:H	2.13	0.57
22:AV:74:PRO:HB2	22:AV:100:ALA:HB1	1.84	0.57
23:AW:176:PRO:HB2	23:AW:179:ASP:N	2.19	0.57
28:Ab:32:PRO:HA	28:Ab:38:ALA:O	2.04	0.57
29:Ac:46:HIS:CG	29:Ac:47:THR:H	2.21	0.57
33:Ag:290:UNK:CB	33:Ag:343:UNK:N	2.68	0.57
34:BA:109:A:N6	34:BA:326:G:C6	2.73	0.57
34:BA:171:A:O2'	34:BA:172:A:H5'	2.05	0.57
34:BA:241:C:H2'	34:BA:242:C:O5'	2.04	0.57
34:BA:577:G:N2	34:BA:578:C:H1'	2.19	0.57
34:BA:586:C:OP1	50:BU:34:LYS:CE	2.52	0.57
34:BA:685:G:H4'	44:BO:40:ILE:O	2.05	0.57
34:BA:748:C:H3'	34:BA:748:C:H6	1.67	0.57
34:BA:754:C:C2'	34:BA:755:G:OP1	2.53	0.57
34:BA:886:G:C2'	34:BA:887:G:C5'	2.82	0.57
34:BA:900:A:H2'	34:BA:901:A:O5'	2.05	0.57
34:BA:907:A:C2'	34:BA:908:A:H8	2.16	0.57
34:BA:932:C:H5''	40:BK:3:ARG:CB	2.35	0.57
34:BA:1048:G:O2'	34:BA:1049:U:O3'	2.23	0.57
34:BA:1225:A:C2'	52:BW:80:TYR:HB2	2.35	0.57
34:BA:1253:G:O2'	34:BA:1254:C:H5'	2.04	0.57
34:BA:1309:G:C8	34:BA:1330:U:C2	2.93	0.57
34:BA:1315:U:C1'	34:BA:1360:A:C2'	2.71	0.57
34:BA:1320:C:C2	52:BW:75:ALA:O	2.57	0.57
34:BA:1364:U:O5'	34:BA:1364:U:H6	1.88	0.57
34:BA:1441:G:O6	53:BX:35:THR:CG2	2.52	0.57
34:BA:1455:G:H3'	53:BX:31:SER:OG	2.00	0.57
35:BF:87:ARG:NH2	35:BF:219:VAL:HG11	2.19	0.57
36:BG:135:LYS:HZ2	38:BI:52:PRO:HG2	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:31:CYS:C	37:BH:33:MET:H	2.13	0.57
37:BH:110:PHE:CZ	37:BH:147:ALA:CB	2.87	0.57
38:BI:20:GLN:CD	38:BI:21:ALA:N	2.62	0.57
38:BI:132:ALA:O	38:BI:135:THR:HB	2.04	0.57
40:BK:77:SER:C	40:BK:156:TRP:HZ2	2.13	0.57
41:BL:7:ALA:O	41:BL:10:LEU:HB2	2.05	0.57
42:BM:26:VAL:HG22	42:BM:61:ALA:CB	2.34	0.57
42:BM:99:LEU:N	42:BM:99:LEU:HD22	2.20	0.57
43:BN:35:SER:N	43:BN:73:ASP:O	2.38	0.57
43:BN:45:ARG:HG2	43:BN:65:LEU:O	2.04	0.57
43:BN:54:PHE:H	47:BR:41:ARG:NH2	2.01	0.57
44:BO:28:THR:CG2	44:BO:29:ILE:N	2.67	0.57
44:BO:59:TYR:O	44:BO:60:ALA:C	2.47	0.57
44:BO:106:LYS:HG2	44:BO:107:SER:N	2.19	0.57
45:BP:29:GLY:O	45:BP:30:ALA:O	2.21	0.57
46:BQ:70:LEU:O	46:BQ:74:VAL:HG23	2.04	0.57
48:BS:81:LEU:O	48:BS:82:ILE:C	2.47	0.57
49:BT:30:GLY:C	49:BT:31:LYS:O	2.45	0.57
53:BX:43:LEU:HD12	53:BX:55:ILE:CD1	2.24	0.57
53:BX:44:ALA:HB3	53:BX:91:LEU:CD1	2.13	0.57
53:BX:49:ALA:HA	53:BX:92:LEU:CD2	2.26	0.57
55:CA:12:ALA:C	55:CA:109:THR:CG2	2.69	0.57
55:CA:69:ARG:CA	55:CA:70:ILE:HB	2.31	0.57
55:CA:407:VAL:H	55:CA:408:GLU:HG3	1.70	0.57
1:AA:180:G:OP1	30:Ad:32:LYS:HD3	2.05	0.57
1:AA:224:G:H2'	1:AA:225:A:O4'	2.04	0.57
1:AA:250:G:H5'	31:Ae:8:LYS:CG	2.35	0.57
1:AA:251:A:H2'	1:AA:252:G:O5'	2.05	0.57
1:AA:285:C:H2'	1:AA:286:C:C6	2.39	0.57
1:AA:360:G:H2'	1:AA:361:G:O5'	2.03	0.57
1:AA:397:G:OP1	27:Aa:40:HIS:C	2.48	0.57
1:AA:516:C:H2'	1:AA:517:C:C6	2.39	0.57
1:AA:669:G:N3	1:AA:801:G:N2	2.52	0.57
1:AA:691:C:N3	1:AA:692:C:C5	2.73	0.57
1:AA:728:G:H21	1:AA:730:C:C5'	2.18	0.57
1:AA:1035:U:H2'	1:AA:1036:G:O4'	2.05	0.57
1:AA:1609:A:C8	1:AA:1616:A:C1'	2.86	0.57
1:AA:1654:A:N3	1:AA:1654:A:H2'	2.18	0.57
1:AA:1665:A:O3'	12:AL:1:MET:N	2.38	0.57
1:AA:1759:A:C2'	1:AA:1760:A:O5'	2.52	0.57
1:AA:1791:A:OP1	4:AD:213:ARG:HD3	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1813:G:O2'	4:AD:46:GLN:CD	2.47	0.57
1:AA:1838:C:H2'	1:AA:1898:U:C5	2.40	0.57
1:AA:1981:A:C5'	1:AA:1982:C:OP2	2.50	0.57
1:AA:2000:G:C2	1:AA:2001:A:N7	2.72	0.57
1:AA:2047:U:O2'	1:AA:2048:G:H5'	2.04	0.57
1:AA:2126:A:N7	1:AA:2163:C:H4'	2.19	0.57
1:AA:2146:C:N3	1:AA:2147:G:H1'	2.20	0.57
1:AA:2147:G:H2'	1:AA:2147:G:N3	2.18	0.57
1:AA:2278:A:N7	24:AX:14:ARG:CB	2.67	0.57
1:AA:2627:G:C6	1:AA:2777:G:O6	2.57	0.57
1:AA:2694:G:C6	1:AA:2695:C:C4	2.92	0.57
1:AA:2694:G:O6	1:AA:2695:C:N4	2.38	0.57
1:AA:2749:A:H4'	8:AH:62:LYS:HB2	1.85	0.57
1:AA:2782:G:O4'	1:AA:2782:G:OP2	2.22	0.57
1:AA:2866:U:H4'	1:AA:2867:G:O5'	2.03	0.57
1:AA:2884:U:H3	28:Ab:40:LYS:NZ	2.03	0.57
3:AC:99:ILE:HG23	3:AC:107:TRP:HZ3	1.70	0.57
3:AC:223:ARG:NH1	3:AC:223:ARG:HB2	2.19	0.57
4:AD:155:LEU:HG	4:AD:157:ARG:CZ	2.34	0.57
4:AD:208:LYS:HE2	4:AD:211:ARG:CG	2.35	0.57
8:AH:29:PRO:CD	8:AH:79:VAL:HA	2.35	0.57
8:AH:35:VAL:HG21	8:AH:75:ALA:CB	2.34	0.57
8:AH:89:ILE:HG12	8:AH:94:TYR:CE1	2.39	0.57
8:AH:153:LYS:H	8:AH:154:PRO:CD	2.15	0.57
10:AJ:76:TYR:O	10:AJ:80:LYS:HB2	2.05	0.57
12:AL:10:VAL:HG22	12:AL:11:ALA:N	2.18	0.57
12:AL:15:GLY:HA2	12:AL:47:ILE:HG13	1.86	0.57
12:AL:116:SER:O	12:AL:119:PRO:HG3	2.03	0.57
13:AM:46:LYS:NZ	13:AM:50:ARG:NH2	2.52	0.57
13:AM:92:GLU:O	13:AM:93:GLY:C	2.47	0.57
14:AN:6:ARG:NH2	14:AN:9:TYR:N	2.53	0.57
14:AN:29:PHE:HB2	14:AN:104:PHE:CD2	2.40	0.57
17:AQ:7:ILE:O	17:AQ:9:LEU:N	2.37	0.57
17:AQ:56:GLY:O	17:AQ:61:PHE:CA	2.53	0.57
18:AR:19:LYS:HB2	18:AR:19:LYS:HZ3	1.69	0.57
19:AS:69:LYS:CG	19:AS:70:ILE:HG13	2.31	0.57
20:AT:40:ASN:O	20:AT:41:LYS:HB2	2.02	0.57
20:AT:88:ARG:NE	20:AT:88:ARG:CA	2.65	0.57
22:AV:46:LYS:HZ1	22:AV:49:VAL:CG2	2.17	0.57
23:AW:17:ALA:HA	23:AW:20:ARG:CZ	2.35	0.57
23:AW:159:PRO:O	23:AW:161:VAL:N	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:11:ARG:HG2	24:AX:11:ARG:HH11	1.69	0.57
26:AZ:17:LYS:CA	26:AZ:20:LYS:NZ	2.68	0.57
27:Aa:55:ARG:O	27:Aa:61:ARG:NE	2.38	0.57
28:Ab:19:ARG:C	28:Ab:21:SER:N	2.61	0.57
28:Ab:35:GLU:CG	28:Ab:49:CYS:HB3	2.34	0.57
34:BA:37:U:H2'	34:BA:38:G:H5'	1.86	0.57
34:BA:129(A):G:H4'	34:BA:130:A:H5''	1.86	0.57
34:BA:175:C:O2'	34:BA:176:C:H5'	2.04	0.57
34:BA:246:A:O2'	34:BA:247:G:P	2.61	0.57
34:BA:409:G:OP2	37:BH:22:LYS:HG2	2.04	0.57
34:BA:484:G:O4'	34:BA:486:U:C6	2.58	0.57
34:BA:591:U:OP1	41:BL:30:ARG:NH2	2.37	0.57
34:BA:744:C:O2'	34:BA:851:G:N2	2.37	0.57
34:BA:766:A:H2'	34:BA:767:A:H8	1.70	0.57
34:BA:815:A:C5	34:BA:1529:G:C6	2.93	0.57
34:BA:816:A:H2'	34:BA:817:C:OP2	2.04	0.57
34:BA:981:U:H3'	34:BA:981:U:C6	2.39	0.57
34:BA:1026:G:O6	34:BA:1036:G:C2	2.57	0.57
34:BA:1074:G:H2'	34:BA:1075:C:O4'	2.03	0.57
34:BA:1329:A:OP1	46:BQ:29:ARG:NE	2.38	0.57
34:BA:1466:C:C3'	34:BA:1467:G:C8	2.86	0.57
35:BF:208:ILE:HG13	35:BF:211:ILE:HD12	1.87	0.57
36:BG:10:PHE:CD1	36:BG:178:LEU:HD22	2.35	0.57
36:BG:24:ALA:HB2	36:BG:32:LEU:CD1	2.35	0.57
36:BG:151:VAL:CG1	36:BG:152:ILE:N	2.67	0.57
37:BH:121:VAL:HB	37:BH:136:PRO:CG	2.18	0.57
41:BL:70:GLN:NE2	41:BL:71:GLY:N	2.47	0.57
41:BL:82:HIS:C	41:BL:137:VAL:HG13	2.28	0.57
44:BO:13:GLN:HA	44:BO:76:GLY:HA3	1.85	0.57
46:BQ:91:ARG:HD3	46:BQ:98:VAL:CA	2.34	0.57
47:BR:16:PHE:O	47:BR:17:LYS:C	2.47	0.57
48:BS:70:LEU:O	48:BS:74:ASP:O	2.23	0.57
50:BU:6:LEU:C	50:BU:6:LEU:CD1	2.76	0.57
50:BU:43:LEU:CD2	50:BU:44:ALA:O	2.53	0.57
51:BV:17:SER:HB3	51:BV:54:ARG:CZ	2.34	0.57
51:BV:63:GLN:O	51:BV:67:ALA:CB	2.53	0.57
55:CA:16:HIS:O	57:CA:701:GCP:H5'2	2.03	0.57
55:CA:173:GLY:N	55:CA:174:LEU:O	2.38	0.57
55:CA:231:VAL:N	55:CA:265:THR:OG1	2.36	0.57
55:CA:409:GLU:H	55:CA:409:GLU:CD	2.13	0.57
55:CA:447:GLY:HA2	55:CA:480:VAL:HG21	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:465:LEU:HG	55:CA:465:LEU:O	2.03	0.57
55:CA:485:ASN:CG	55:CA:526:ILE:HG21	2.29	0.57
55:CA:490:SER:C	55:CA:534:THR:HG22	2.29	0.57
1:AA:86:C:OP1	22:AV:30:VAL:HG23	2.05	0.57
1:AA:105:C:C2	1:AA:106:C:C5	2.92	0.57
1:AA:196:A:C6	1:AA:828:U:H5''	2.38	0.57
1:AA:221:A:N7	1:AA:266:G:C5	2.73	0.57
1:AA:270(V):G:C6	1:AA:270(W):G:O6	2.57	0.57
1:AA:308:G:C2	1:AA:329:G:N2	2.73	0.57
1:AA:449:A:H4'	6:AF:52:LYS:NZ	2.19	0.57
1:AA:573:G:C2'	1:AA:574:C:O5'	2.53	0.57
1:AA:600:G:O2'	6:AF:104:LYS:HG2	2.04	0.57
1:AA:636:G:H22	13:AM:75:ILE:HG23	1.64	0.57
1:AA:730:C:H5''	1:AA:763:G:OP1	2.05	0.57
1:AA:769:G:C2	1:AA:770:G:C8	2.93	0.57
1:AA:811:U:H3'	1:AA:811:U:H6	1.70	0.57
1:AA:816:C:H5'	1:AA:816:C:C6	2.35	0.57
1:AA:878:A:O4'	1:AA:899:A:N1	2.38	0.57
1:AA:930:U:HO2'	1:AA:931:G:P	2.27	0.57
1:AA:942:G:C2	1:AA:943:U:C4	2.92	0.57
1:AA:1024:G:C3'	1:AA:1025:G:H5''	2.35	0.57
1:AA:1036:G:OP1	8:AH:59:ARG:CZ	2.47	0.57
1:AA:1039:G:N2	1:AA:1040:C:C2	2.73	0.57
1:AA:1051:G:O4'	1:AA:2752:C:O5'	2.05	0.57
1:AA:1472:A:C2'	1:AA:1473:G:C8	2.87	0.57
1:AA:1717:G:N2	1:AA:1718:G:H1'	2.19	0.57
1:AA:1791:A:H4'	4:AD:206:LEU:CD2	2.34	0.57
1:AA:1939:U:O2'	1:AA:2592:G:O2'	2.17	0.57
1:AA:2083:G:C4	1:AA:2084:C:C5	2.93	0.57
1:AA:2215:G:H2'	1:AA:2216:G:H8	1.69	0.57
1:AA:2269:A:C2	1:AA:2270:G:C1'	2.88	0.57
1:AA:2287:A:O2'	1:AA:2288:A:O5'	2.16	0.57
1:AA:2383:G:N2	1:AA:2384:G:N3	2.53	0.57
1:AA:2527:C:H2'	1:AA:2528:U:C6	2.40	0.57
1:AA:2596:U:C2'	4:AD:242:ARG:NH1	2.53	0.57
1:AA:2815:C:O2	1:AA:2816:C:C6	2.57	0.57
1:AA:2827:C:O2'	1:AA:2828:C:H5'	2.05	0.57
1:AA:2845:G:O2'	1:AA:2846:G:O5'	2.23	0.57
1:AA:2856:C:O2'	1:AA:2857:G:H5'	2.05	0.57
1:AA:2882:A:C2'	1:AA:2883:A:O5'	2.50	0.57
2:AB:14:U:C1'	2:AB:107:U:H1'	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:22:ILE:HG22	3:AC:186:ALA:HA	1.86	0.57
3:AC:68:LEU:HD22	3:AC:156:ILE:O	2.04	0.57
3:AC:102:LYS:O	3:AC:105:ASP:HB2	2.05	0.57
5:AE:53:PRO:CG	5:AE:75:VAL:HG22	2.31	0.57
5:AE:100:GLU:HB2	5:AE:172:VAL:HG11	1.86	0.57
5:AE:111:ARG:HB2	5:AE:161:GLY:CA	2.35	0.57
8:AH:6:ARG:O	8:AH:6:ARG:HG3	2.02	0.57
12:AL:86:ILE:CG2	12:AL:87:ILE:N	2.68	0.57
14:AN:75:THR:CG2	14:AN:77:LYS:HD2	2.29	0.57
19:AS:5:VAL:HG11	19:AS:37:VAL:HG22	1.87	0.57
21:AU:12:VAL:HG22	21:AU:29:TRP:CE2	2.39	0.57
21:AU:36:LYS:O	21:AU:39:ILE:HB	2.05	0.57
22:AV:37:VAL:CG1	22:AV:64:GLU:HG2	2.34	0.57
24:AX:32:ARG:CB	24:AX:32:ARG:CZ	2.83	0.57
25:AY:50:ARG:HB2	25:AY:54:ARG:HH22	1.69	0.57
27:Aa:10:VAL:O	27:Aa:40:HIS:HD2	1.87	0.57
27:Aa:65:ASP:O	27:Aa:69:LYS:CG	2.46	0.57
29:Ac:8:LYS:C	29:Ac:28:ARG:HB3	2.28	0.57
29:Ac:40:CYS:HA	29:Ac:47:THR:O	2.05	0.57
32:Af:17:ILE:CD1	32:Af:26:ILE:HD12	2.16	0.57
34:BA:91:C:C2	34:BA:92:G:N7	2.72	0.57
34:BA:230:G:N2	34:BA:231:G:H1'	2.18	0.57
34:BA:251:G:C2	34:BA:266:G:C6	2.93	0.57
34:BA:533:A:C6	34:BA:536:C:C4	2.93	0.57
34:BA:872:A:C5	34:BA:874:G:N7	2.73	0.57
34:BA:935:A:H2'	34:BA:936:C:H6	1.69	0.57
34:BA:970:C:H4'	34:BA:972:C:C5	2.40	0.57
34:BA:1067:A:O2'	34:BA:1068:G:P	2.62	0.57
34:BA:1216:G:C4	34:BA:1217:C:C5	2.93	0.57
34:BA:1257:U:O2'	34:BA:1258:G:C8	2.57	0.57
34:BA:1261:A:C2	34:BA:1262:C:C2	2.93	0.57
34:BA:1269:A:H5'	34:BA:1326:C:C4'	2.35	0.57
34:BA:1317:C:HO2'	34:BA:1318:A:C5'	1.85	0.57
34:BA:1319:A:N6	34:BA:1323:G:N3	2.52	0.57
34:BA:1495:U:H6	34:BA:1495:U:OP1	1.87	0.57
35:BF:55:PHE:CE2	35:BF:218:ALA:HA	2.39	0.57
35:BF:113:HIS:HA	35:BF:116:GLU:OE2	2.04	0.57
35:BF:152:PHE:CD1	35:BF:152:PHE:C	2.81	0.57
37:BH:26:CYS:O	37:BH:33:MET:SD	2.63	0.57
37:BH:137:SER:O	37:BH:138:TYR:C	2.47	0.57
37:BH:166:LYS:HA	37:BH:178:VAL:HG11	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:18:ARG:HB2	38:BI:26:PHE:HA	1.86	0.57
41:BL:19:VAL:HB	41:BL:21:LYS:CG	2.35	0.57
41:BL:79:VAL:O	41:BL:80:ILE:C	2.47	0.57
41:BL:81:HIS:HB3	41:BL:138:TRP:O	2.05	0.57
42:BM:111:ARG:HG2	42:BM:112:LYS:O	2.05	0.57
44:BO:18:ARG:CA	44:BO:80:VAL:HG23	2.34	0.57
46:BQ:91:ARG:NH1	46:BQ:91:ARG:HG2	2.20	0.57
51:BV:45:SER:N	51:BV:51:LEU:HD21	2.20	0.57
55:CA:8:ILE:HA	55:CA:72:ILE:CG2	2.34	0.57
55:CA:395:ARG:CD	55:CA:474:ASP:OD1	2.49	0.57
1:AA:76:C:O2'	1:AA:77:C:H5'	2.05	0.57
1:AA:124:G:N1	30:Ad:19:ARG:NH2	2.53	0.57
1:AA:221:A:N7	1:AA:266:G:N7	2.52	0.57
1:AA:414:C:H1'	1:AA:1864:U:C1'	2.32	0.57
1:AA:464:U:O2	1:AA:788:A:N7	2.37	0.57
1:AA:494:G:C5'	20:AT:7:ALA:HA	2.33	0.57
1:AA:562:U:N3	1:AA:572:A:N3	2.44	0.57
1:AA:569:U:O4	1:AA:570:G:C6	2.57	0.57
1:AA:629:G:H5'	1:AA:649:G:N3	2.20	0.57
1:AA:662:G:H5'	13:AM:17:LYS:N	2.20	0.57
1:AA:673:C:C5'	6:AF:82:ILE:HD12	2.34	0.57
1:AA:714:U:H2'	1:AA:715:G:H3'	1.85	0.57
1:AA:733:G:OP2	1:AA:761:A:N6	2.37	0.57
1:AA:740:U:O4'	1:AA:1784:A:C5	2.58	0.57
1:AA:763:G:C4	1:AA:765:G:C8	2.93	0.57
1:AA:1047:G:C2	1:AA:1110:G:C3'	2.87	0.57
1:AA:1053:C:C4	1:AA:1054:A:N6	2.73	0.57
1:AA:1151:G:H4'	18:AR:81:HIS:CD2	2.40	0.57
1:AA:1214:A:H62	1:AA:1236:G:H21	1.50	0.57
1:AA:1223:C:O2	1:AA:1225:C:H5''	2.04	0.57
1:AA:1223:C:C4	1:AA:1227:A:N1	2.73	0.57
1:AA:1360:A:N6	1:AA:1371:G:H1'	2.20	0.57
1:AA:1363:C:H42	27:Aa:2:LYS:HE2	1.63	0.57
1:AA:1473:G:O2'	1:AA:1474:C:H5'	2.04	0.57
1:AA:1591:G:H2'	1:AA:1592:C:C6	2.40	0.57
1:AA:1702:G:C5	1:AA:1703:G:N7	2.73	0.57
1:AA:1909:C:N3	1:AA:1922:G:C6	2.73	0.57
1:AA:1928:A:C8	1:AA:1929:G:N3	2.73	0.57
1:AA:1964:G:N1	1:AA:1967:C:C5	2.73	0.57
1:AA:2075:U:H2'	1:AA:2075:U:O2	2.05	0.57
1:AA:2134:A:C6	1:AA:2135:A:C2	2.92	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2284:C:H3'	29:Ac:27:LYS:NZ	2.19	0.57
1:AA:2291:U:C2	1:AA:2292:C:C5	2.92	0.57
1:AA:2322:A:N3	1:AA:2322:A:H2'	2.20	0.57
1:AA:2346:A:H4'	1:AA:2383:G:O4'	2.05	0.57
1:AA:2373:G:C6	1:AA:2374:C:N4	2.73	0.57
1:AA:2378:A:C2	1:AA:2379:G:C1'	2.88	0.57
1:AA:2559:C:O2'	1:AA:2560:C:C5'	2.53	0.57
1:AA:2587:A:HO2'	1:AA:2588:G:H5'	1.68	0.57
1:AA:2714:G:C6	1:AA:2715:C:N4	2.73	0.57
1:AA:2748:A:N3	8:AH:67:LEU:HD11	2.20	0.57
1:AA:2749:A:H4'	8:AH:62:LYS:CB	2.34	0.57
1:AA:2759:G:C6	1:AA:2760:C:C5	2.93	0.57
1:AA:2781:A:C2'	1:AA:2782:G:H4'	2.34	0.57
1:AA:2821:A:OP1	5:AE:110:GLY:N	2.36	0.57
1:AA:2831:G:H1'	1:AA:2883:A:H2'	1.86	0.57
1:AA:2875:C:O3'	17:AQ:2:ASN:HB3	2.04	0.57
2:AB:64:C:O2'	2:AB:65:C:H5'	2.04	0.57
3:AC:81:GLU:OE2	3:AC:82:LYS:HD3	2.05	0.57
3:AC:93:TYR:CE2	3:AC:109:ASP:O	2.57	0.57
4:AD:8:PRO:HD2	4:AD:26:LYS:N	2.19	0.57
4:AD:78:LYS:HA	4:AD:115:GLN:O	2.04	0.57
4:AD:223:GLY:C	4:AD:225:ALA:H	2.13	0.57
5:AE:31:CYS:O	5:AE:33:VAL:HG13	2.04	0.57
5:AE:38:THR:HG1	5:AE:44:TYR:CB	2.18	0.57
5:AE:57:LYS:O	5:AE:58:ARG:HB2	2.04	0.57
6:AF:5:ALA:O	6:AF:20:LEU:HD22	2.04	0.57
7:AG:44:GLY:O	7:AG:47:LYS:N	2.36	0.57
7:AG:54:GLU:O	7:AG:57:ALA:CB	2.45	0.57
7:AG:125:PHE:CE2	7:AG:127:GLY:C	2.83	0.57
8:AH:7:LEU:CA	8:AH:52:VAL:HG13	2.35	0.57
9:AI:53:VAL:O	9:AI:54:ALA:HB3	2.05	0.57
10:AJ:40:ALA:CA	10:AJ:66:THR:OG1	2.52	0.57
10:AJ:104:VAL:CG1	10:AJ:127:ILE:CG2	2.64	0.57
10:AJ:105:LEU:HD22	10:AJ:123:ALA:CB	2.35	0.57
10:AJ:123:ALA:HA	10:AJ:127:ILE:CD1	2.35	0.57
11:AK:46:VAL:O	11:AK:47:ALA:CB	2.52	0.57
11:AK:51:PHE:CE1	11:AK:119:ARG:NE	2.73	0.57
12:AL:19:ILE:C	12:AL:19:ILE:CD1	2.78	0.57
13:AM:49:ARG:HG3	31:Ae:52:LYS:HG3	1.85	0.57
13:AM:54:GLY:O	13:AM:56:SER:N	2.37	0.57
14:AN:37:LEU:CA	14:AN:100:GLY:HA2	2.33	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:34:ILE:HG22	15:AO:35:THR:N	2.20	0.57
15:AO:65:LEU:O	15:AO:68:ARG:N	2.38	0.57
15:AO:73:VAL:HB	15:AO:77:ARG:NH2	2.19	0.57
16:AP:13:ARG:NH2	16:AP:94:TYR:OH	2.37	0.57
16:AP:66:ALA:O	16:AP:67:ARG:C	2.48	0.57
17:AQ:45:PHE:HE1	17:AQ:86:ILE:HG22	1.70	0.57
18:AR:46:ALA:O	18:AR:49:HIS:HB2	2.04	0.57
19:AS:35:LEU:O	19:AS:61:VAL:CA	2.53	0.57
20:AT:34:ASN:ND2	20:AT:37:ARG:NH2	2.53	0.57
20:AT:36:LEU:CD2	20:AT:47:VAL:HB	2.33	0.57
22:AV:12:THR:HG23	22:AV:73:ARG:CG	2.32	0.57
23:AW:18:LEU:O	23:AW:19:ARG:C	2.48	0.57
23:AW:95:PRO:CD	23:AW:131:ARG:HG2	2.34	0.57
26:AZ:17:LYS:CA	26:AZ:20:LYS:HZ3	2.18	0.57
27:Aa:59:PHE:N	27:Aa:59:PHE:CD1	2.72	0.57
29:Ac:39:TYR:O	29:Ac:40:CYS:HB3	2.03	0.57
30:Ad:46:VAL:HG12	30:Ad:47:ARG:N	2.19	0.57
31:Ae:20:GLY:C	31:Ae:21:LYS:HG3	2.29	0.57
32:Af:25:VAL:HG21	32:Af:34:GLN:OE1	2.04	0.57
33:Ag:290:UNK:CB	33:Ag:343:UNK:CA	2.79	0.57
34:BA:17:U:H2'	34:BA:18:C:C6	2.37	0.57
34:BA:256:U:O5'	34:BA:256:U:H6	1.87	0.57
34:BA:276:G:P	50:BU:14:LYS:HD3	2.44	0.57
34:BA:597:G:O2'	34:BA:598:U:H5'	2.05	0.57
34:BA:624:C:H2'	34:BA:625:G:C8	2.38	0.57
34:BA:684:A:C4'	44:BO:12:ARG:NH2	2.55	0.57
34:BA:932:C:H5''	40:BK:3:ARG:HB3	1.87	0.57
34:BA:1003:G:N7	34:BA:1004:A:N3	2.52	0.57
34:BA:1089:G:H2'	34:BA:1090:U:C5'	2.32	0.57
34:BA:1155:G:H2'	34:BA:1156:G:C8	2.40	0.57
34:BA:1164:G:N1	34:BA:1165:C:N3	2.53	0.57
34:BA:1275:A:H2'	34:BA:1276:G:H5'	1.86	0.57
34:BA:1313:U:N3	34:BA:1325:C:C2	2.72	0.57
34:BA:1315:U:H1'	34:BA:1360:A:H2'	1.82	0.57
34:BA:1376:U:H2'	34:BA:1377:A:N7	2.19	0.57
34:BA:1443:G:H4'	34:BA:1446:A:O5'	2.05	0.57
35:BF:57:PHE:HD2	35:BF:57:PHE:O	1.88	0.57
35:BF:82:ARG:HA	35:BF:92:TYR:CZ	2.39	0.57
36:BG:139:GLN:O	36:BG:143:GLU:HG3	2.05	0.57
37:BH:25:ARG:C	37:BH:27:TYR:N	2.59	0.57
38:BI:69:VAL:O	38:BI:70:PRO:C	2.47	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:76:ILE:HG22	38:BI:78:HIS:HD2	1.69	0.57
39:BJ:6:VAL:HG12	39:BJ:63:TYR:H	1.69	0.57
39:BJ:42:GLU:HB2	39:BJ:61:LEU:HD23	1.87	0.57
40:BK:37:ASN:OD1	40:BK:38:LEU:N	2.24	0.57
40:BK:77:SER:C	40:BK:156:TRP:CZ2	2.83	0.57
41:BL:38:ILE:CD1	41:BL:118:VAL:HB	2.34	0.57
41:BL:40:ALA:N	41:BL:45:ILE:CG2	2.68	0.57
41:BL:123:GLU:O	41:BL:126:LYS:HE3	2.04	0.57
42:BM:50:LEU:CD2	42:BM:51:ARG:HH12	2.15	0.57
45:BP:76:ASN:HD22	45:BP:77:LEU:HD23	1.69	0.57
48:BS:69:TYR:O	48:BS:70:LEU:C	2.48	0.57
49:BT:39:TYR:CE1	49:BT:41:PRO:HG3	2.40	0.57
50:BU:18:THR:HG23	50:BU:69:LYS:HE3	1.87	0.57
51:BV:83:GLU:O	51:BV:84:LYS:C	2.47	0.57
52:BW:11:VAL:HG12	52:BW:15:LEU:CD1	2.35	0.57
52:BW:69:HIS:CB	52:BW:74:PHE:HZ	2.04	0.57
53:BX:12:ALA:H	53:BX:13:LEU:CD1	2.01	0.57
55:CA:18:LYS:HB2	57:CA:701:GCP:C3B	2.35	0.57
55:CA:228:ARG:CA	55:CA:267:LEU:CD1	2.83	0.57
55:CA:538:LEU:HB2	55:CA:539:THR:CB	2.35	0.57
1:AA:28:A:C8	1:AA:513:A:C6	2.93	0.57
1:AA:83:G:H1	1:AA:102:G:HO2'	1.50	0.57
1:AA:149:A:C8	1:AA:150:C:C6	2.93	0.57
1:AA:190:A:N6	1:AA:207:A:C8	2.73	0.57
1:AA:259:G:H1'	1:AA:621:A:O2'	2.05	0.57
1:AA:270(X):G:N2	1:AA:270(Y):G:O2'	2.38	0.57
1:AA:331:A:C2	1:AA:1209:G:C6	2.93	0.57
1:AA:443:A:O4'	1:AA:1201:C:O4'	2.21	0.57
1:AA:565:C:O3'	1:AA:1253:A:C2	2.58	0.57
1:AA:612:G:N2	1:AA:617:G:C6	2.68	0.57
1:AA:612:G:C2'	1:AA:615:G:H2'	2.34	0.57
1:AA:643:A:O2'	1:AA:644:A:OP2	2.21	0.57
1:AA:650:C:OP1	31:Ae:19:SER:OG	2.21	0.57
1:AA:714:U:OP2	1:AA:714:U:H6	1.86	0.57
1:AA:823:G:C2	1:AA:824:A:C5	2.93	0.57
1:AA:943:U:P	13:AM:32:THR:HB	2.45	0.57
1:AA:955:C:P	14:AN:17:LEU:HD23	2.45	0.57
1:AA:973:A:O2'	1:AA:974:G:C5'	2.53	0.57
1:AA:1022:G:O2'	1:AA:1023:U:O5'	2.23	0.57
1:AA:1064:C:C6	1:AA:1065:U:C4	2.93	0.57
1:AA:1092:C:C6	1:AA:1092:C:C3'	2.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1153:C:C2	1:AA:1154:G:C8	2.93	0.57
1:AA:1205:U:N3	1:AA:1207:C:N4	2.52	0.57
1:AA:1303:G:N7	1:AA:1304:C:C4	2.73	0.57
1:AA:1341:U:H2'	1:AA:1342:A:OP1	2.04	0.57
1:AA:1439:A:H2'	1:AA:1440:G:C5'	2.34	0.57
1:AA:1598:C:O2'	21:AU:35:THR:HG23	2.04	0.57
1:AA:1670:C:OP2	1:AA:1671:U:H5	1.82	0.57
1:AA:1729:A:H3'	1:AA:1730:U:C6	2.40	0.57
1:AA:1753:G:H2'	1:AA:1755:A:N7	2.19	0.57
1:AA:1790:C:OP2	4:AD:221:VAL:O	2.22	0.57
1:AA:1838:C:C5	1:AA:1899:G:C6	2.93	0.57
1:AA:1882:C:H2'	1:AA:1883:G:C4'	2.35	0.57
1:AA:1957:C:C2	1:AA:1958:C:C5	2.93	0.57
1:AA:2053:G:H2'	1:AA:2054:A:O5'	2.05	0.57
1:AA:2075:U:O2	1:AA:2076:U:H5'	2.04	0.57
1:AA:2111:C:N4	1:AA:2145:C:C5	2.73	0.57
1:AA:2227:A:N3	4:AD:262:ARG:NH1	2.53	0.57
1:AA:2259:G:O4'	1:AA:2427:C:C6	2.58	0.57
1:AA:2519:U:C2	1:AA:2542:A:C2	2.92	0.57
1:AA:2630:G:O6	1:AA:2894:G:O6	2.06	0.57
1:AA:2673:G:N2	1:AA:2674:G:C5	2.73	0.57
1:AA:2688:U:O2	1:AA:2688:U:C2'	2.46	0.57
1:AA:2779:U:H5''	1:AA:2780:G:H3'	1.87	0.57
1:AA:2793:G:N2	1:AA:2803:C:C2	2.73	0.57
1:AA:2810:A:H2'	1:AA:2811:G:H5'	1.87	0.57
1:AA:2815:C:C2'	28:Ab:42:PRO:HG3	2.34	0.57
2:AB:37:C:N3	2:AB:49:C:O4'	2.38	0.57
2:AB:76:G:H1'	23:AW:75:ASN:ND2	2.20	0.57
3:AC:60:GLY:O	3:AC:61:THR:CB	2.52	0.57
3:AC:141:LYS:HG3	3:AC:141:LYS:O	2.05	0.57
4:AD:219:PRO:C	4:AD:220:HIS:CG	2.83	0.57
4:AD:260:ARG:CG	4:AD:260:ARG:NH1	2.66	0.57
5:AE:33:VAL:HG23	5:AE:34:VAL:HG23	1.87	0.57
5:AE:105:THR:HB	5:AE:166:THR:OG1	2.05	0.57
5:AE:171:GLU:OE1	5:AE:172:VAL:HG22	2.05	0.57
6:AF:27:GLU:HG3	6:AF:116:ASP:HB2	1.86	0.57
6:AF:34:TRP:CD1	6:AF:38:ARG:HH21	2.18	0.57
6:AF:54:ARG:C	6:AF:56:GLU:H	2.11	0.57
6:AF:103:LYS:HB3	6:AF:107:LYS:CE	2.32	0.57
7:AG:19:LEU:HD12	7:AG:19:LEU:H	1.70	0.57
8:AH:88:LEU:HD21	8:AH:90:LYS:HB3	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:16:LYS:H	10:AJ:16:LYS:HD2	1.70	0.57
11:AK:62:VAL:O	11:AK:64:GLY:N	2.36	0.57
11:AK:114:ARG:O	11:AK:115:ARG:C	2.48	0.57
12:AL:86:ILE:HG21	12:AL:90:GLN:HA	1.87	0.57
12:AL:112:MET:HA	12:AL:115:VAL:HG21	1.87	0.57
13:AM:126:VAL:HB	13:AM:146:VAL:HG23	1.86	0.57
14:AN:85:LYS:O	14:AN:87:LYS:N	2.38	0.57
16:AP:70:GLY:O	16:AP:71:ARG:C	2.47	0.57
16:AP:76:LYS:HG2	16:AP:77:ALA:N	2.20	0.57
17:AQ:50:ILE:HG23	17:AQ:68:TYR:HB2	1.86	0.57
17:AQ:55:ASN:HD22	17:AQ:57:PHE:HE1	1.52	0.57
17:AQ:76:PHE:HZ	17:AQ:78:LEU:CD1	2.18	0.57
18:AR:59:ARG:HB3	18:AR:59:ARG:HH11	1.70	0.57
19:AS:77:ALA:O	19:AS:84:LYS:HA	2.05	0.57
20:AT:22:ASP:HA	20:AT:75:TYR:CZ	2.38	0.57
21:AU:63:LYS:HE2	21:AU:63:LYS:CA	2.35	0.57
22:AV:14:LEU:HD22	22:AV:20:TYR:H	1.68	0.57
23:AW:9:TYR:C	23:AW:10:ARG:HG3	2.30	0.57
24:AX:21:LEU:HG	24:AX:22:GLY:N	2.17	0.57
27:Aa:58:ARG:O	27:Aa:61:ARG:CB	2.25	0.57
32:Af:9:ARG:C	32:Af:10:ILE:CG1	2.78	0.57
33:Ag:8:UNK:O	33:Ag:151:UNK:CB	2.53	0.57
34:BA:81:G:H3'	34:BA:82:U:H5''	1.87	0.57
34:BA:254:G:OP1	50:BU:67:LYS:O	2.23	0.57
34:BA:389:A:N1	34:BA:390:C:H1'	2.20	0.57
34:BA:511:C:O2'	34:BA:512:U:O4'	2.23	0.57
34:BA:597:G:C2'	34:BA:598:U:H5'	2.35	0.57
34:BA:600:C:H5'	41:BL:129:VAL:HA	1.86	0.57
34:BA:682:G:C6	34:BA:683:G:N7	2.73	0.57
34:BA:769:G:H5'	34:BA:1513:A:C4'	2.34	0.57
34:BA:1049:U:O5'	34:BA:1049:U:C6	2.58	0.57
34:BA:1187:G:H2'	34:BA:1188:A:C8	2.40	0.57
34:BA:1194:U:C5	34:BA:1195:C:C5	2.92	0.57
35:BF:178:ARG:NH2	35:BF:196:LEU:O	2.37	0.57
36:BG:21:ARG:HD2	36:BG:58:GLU:OE2	2.04	0.57
37:BH:114:ARG:O	37:BH:117:ALA:HB3	2.04	0.57
38:BI:106:PRO:HB3	38:BI:120:THR:HG21	1.86	0.57
38:BI:142:LEU:H	38:BI:143:ARG:HE	1.52	0.57
38:BI:150:ARG:HD3	38:BI:150:ARG:C	2.29	0.57
39:BJ:9:VAL:HG13	39:BJ:59:TYR:O	2.05	0.57
39:BJ:75:LEU:O	39:BJ:78:GLU:N	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:17:THR:HG21	41:BL:18:ARG:NH2	2.19	0.57
41:BL:69:ARG:NH1	41:BL:74:PRO:O	2.38	0.57
42:BM:17:VAL:HG21	42:BM:77:ILE:O	2.05	0.57
42:BM:49:PRO:CD	42:BM:78:LYS:HG2	2.29	0.57
45:BP:7:ILE:HB	45:BP:8:ASN:HD22	1.69	0.57
46:BQ:16:ASP:HB2	46:BQ:30:ALA:CB	2.33	0.57
46:BQ:37:THR:CG2	46:BQ:39:ILE:HG12	2.31	0.57
47:BR:27:CYS:C	47:BR:40:CYS:SG	2.88	0.57
48:BS:41:GLU:HA	48:BS:44:LYS:HE3	1.85	0.57
49:BT:31:LYS:HG2	49:BT:32:TYR:H	1.68	0.57
53:BX:25:ARG:O	53:BX:28:ALA:HB3	2.04	0.57
53:BX:56:MET:SD	53:BX:84:LEU:CD1	2.92	0.57
55:CA:38:THR:HB	55:CA:39:GLN:C	2.30	0.57
55:CA:67:ASP:H	55:CA:68:TYR:HA	1.68	0.57
55:CA:156:GLU:HA	55:CA:157:GLN:C	2.27	0.57
55:CA:156:GLU:H	55:CA:157:GLN:HB2	1.68	0.57
55:CA:247:ARG:O	55:CA:276:ILE:HG12	2.05	0.57
55:CA:250:LYS:O	55:CA:251:VAL:CG1	2.51	0.57
1:AA:2:G:C1'	1:AA:2902:C:O2	2.53	0.56
1:AA:26:G:N2	1:AA:27:G:N2	2.53	0.56
1:AA:71:A:N6	1:AA:114:U:H1'	2.19	0.56
1:AA:124:G:OP1	1:AA:1376:C:C1'	2.53	0.56
1:AA:270(J):G:C6	1:AA:270(K):C:C4	2.93	0.56
1:AA:279:C:H41	1:AA:359:A:H1'	1.66	0.56
1:AA:506:G:HO2'	1:AA:507:A:H8	1.49	0.56
1:AA:513:A:O2'	1:AA:514:A:H5'	2.04	0.56
1:AA:515:A:C5'	18:AR:32:PHE:CZ	2.87	0.56
1:AA:594:U:C2'	1:AA:595:C:C6	2.80	0.56
1:AA:786:C:C5'	1:AA:1780:A:C8	2.88	0.56
1:AA:827:U:O3'	1:AA:828:U:O2	2.23	0.56
1:AA:946:G:O6	1:AA:972:G:N2	2.38	0.56
1:AA:988:A:H62	26:AZ:13:ILE:CD1	2.18	0.56
1:AA:1135:C:HO2'	1:AA:2038:G:HO2'	1.53	0.56
1:AA:1168:G:C6	1:AA:1182:A:N1	2.72	0.56
1:AA:1173:G:N2	1:AA:1175:U:OP1	2.37	0.56
1:AA:1189:A:OP1	13:AM:29:LYS:HE3	2.05	0.56
1:AA:1201:C:H42	1:AA:1241:A:N6	2.03	0.56
1:AA:1210:A:H1'	1:AA:1212:G:H21	1.69	0.56
1:AA:1234:U:H2'	1:AA:1235:G:C8	2.40	0.56
1:AA:1310:G:H2'	1:AA:1311:G:O4'	2.05	0.56
1:AA:1579:A:N6	1:AA:1581:G:C2	2.72	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1656:C:OP1	5:AE:117:MET:HB2	2.04	0.56
1:AA:1656:C:H5''	5:AE:136:ARG:CZ	2.35	0.56
1:AA:1670:C:C6	1:AA:1671:U:C6	2.92	0.56
1:AA:1696:G:C6	1:AA:1697:G:C2	2.93	0.56
1:AA:1718:G:N2	1:AA:1742:C:C2	2.66	0.56
1:AA:1770:G:O2'	1:AA:1771:C:C5'	2.52	0.56
1:AA:1799:G:C6	4:AD:177:LEU:HD12	2.40	0.56
1:AA:1912:A:N6	1:AA:1919:A:C5	2.72	0.56
1:AA:1944:U:O4'	1:AA:1955:U:C6	2.58	0.56
1:AA:2075:U:O2	1:AA:2076:U:C5'	2.52	0.56
1:AA:2281:C:O2'	1:AA:2282:G:O5'	2.22	0.56
1:AA:2309:A:N7	7:AG:80:PHE:CZ	2.73	0.56
1:AA:2322:A:N3	1:AA:2323:G:H5'	2.19	0.56
1:AA:2500:U:H4'	1:AA:2501:C:OP2	2.02	0.56
1:AA:2519:U:OP1	1:AA:2519:U:H3'	2.05	0.56
1:AA:2601:C:O2	1:AA:2603:G:N7	2.38	0.56
1:AA:2602:A:C2	24:AX:1:MET:HA	2.40	0.56
1:AA:2669:G:H2'	1:AA:2670:A:O4'	2.05	0.56
1:AA:2682:U:C2'	1:AA:2683:C:O5'	2.53	0.56
1:AA:2723:C:C4	1:AA:2724:C:C5	2.93	0.56
1:AA:2729:G:C2'	1:AA:2730:C:H5'	2.35	0.56
1:AA:2811:G:P	5:AE:60:ASN:HD22	2.28	0.56
1:AA:2840:C:O2'	1:AA:2841:C:H5'	2.05	0.56
2:AB:9:G:N2	2:AB:10:C:C2	2.73	0.56
3:AC:97:GLU:HB3	3:AC:126:LYS:HZ3	1.69	0.56
4:AD:183:ARG:HA	4:AD:268:ARG:CA	2.35	0.56
5:AE:5:LEU:C	5:AE:5:LEU:CD2	2.77	0.56
7:AG:35:GLU:HA	7:AG:100:TRP:HH2	1.70	0.56
7:AG:119:GLY:O	7:AG:120:LEU:HD23	2.04	0.56
8:AH:15:VAL:HG22	8:AH:16:SER:N	2.19	0.56
8:AH:54:ARG:HH21	8:AH:57:ASP:CB	2.18	0.56
8:AH:87:LEU:HD21	8:AH:162:ILE:CG1	2.35	0.56
10:AJ:17:ALA:HB1	10:AJ:41:PHE:N	2.20	0.56
10:AJ:98:ARG:HG2	10:AJ:99:ILE:N	2.18	0.56
11:AK:34:LEU:HD21	11:AK:120:LEU:HD13	1.87	0.56
11:AK:46:VAL:CG1	11:AK:47:ALA:N	2.40	0.56
14:AN:42:ILE:CG1	14:AN:46:GLN:NE2	2.67	0.56
14:AN:43:THR:HG23	14:AN:46:GLN:HE21	1.69	0.56
14:AN:120:ILE:O	14:AN:124:LYS:CG	2.53	0.56
15:AO:74:LYS:CA	15:AO:77:ARG:HH22	2.17	0.56
15:AO:96:ARG:NH2	15:AO:117:VAL:HG23	2.20	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:98:LEU:C	15:AO:112:ALA:HB1	2.28	0.56
16:AP:42:ASP:OD1	16:AP:43:GLU:N	2.38	0.56
18:AR:46:ALA:HA	18:AR:49:HIS:ND1	2.20	0.56
18:AR:84:LYS:HE2	18:AR:84:LYS:N	2.20	0.56
19:AS:13:ARG:O	19:AS:14:VAL:CG2	2.53	0.56
20:AT:6:ILE:CG2	20:AT:7:ALA:N	2.68	0.56
21:AU:31:HIS:NE2	21:AU:33:LYS:HB3	2.20	0.56
21:AU:63:LYS:HA	21:AU:63:LYS:HZ3	1.70	0.56
23:AW:10:ARG:O	23:AW:11:GLU:HB2	2.05	0.56
23:AW:30:ASN:CB	23:AW:90:VAL:HG23	2.27	0.56
24:AX:50:ASN:HB2	24:AX:81:VAL:HB	1.87	0.56
24:AX:82:ARG:HG2	24:AX:83:PRO:N	2.18	0.56
25:AY:20:VAL:CG2	25:AY:55:LEU:HD23	2.34	0.56
25:AY:54:ARG:HH11	25:AY:54:ARG:CG	2.19	0.56
26:AZ:37:LEU:HG	26:AZ:38:GLU:C	2.30	0.56
27:Aa:7:PRO:CG	27:Aa:60:GLN:HB2	2.35	0.56
29:Ac:51:GLU:OE2	29:Ac:52:VAL:N	2.38	0.56
31:Ae:29:LYS:NZ	31:Ae:36:LYS:HZ3	2.03	0.56
34:BA:80:G:H3'	34:BA:81:G:H8	1.70	0.56
34:BA:101:A:C4	34:BA:102:G:C8	2.93	0.56
34:BA:132:C:O2'	34:BA:133:U:O5'	2.23	0.56
34:BA:173:U:H4'	34:BA:197:A:N3	2.20	0.56
34:BA:237:C:H2'	34:BA:238:G:C8	2.40	0.56
34:BA:308:C:C2'	34:BA:309:G:O5'	2.53	0.56
34:BA:330:C:H2'	34:BA:331:G:H8	1.70	0.56
34:BA:375:U:O2'	49:BT:6:LEU:HD21	2.04	0.56
34:BA:406:G:N2	34:BA:407:G:C4	2.73	0.56
34:BA:540:G:H21	37:BH:42:GLN:HE22	1.52	0.56
34:BA:571:U:H6	34:BA:571:U:C5'	2.19	0.56
34:BA:571:U:O4	34:BA:865:A:N1	2.37	0.56
34:BA:581:G:O3'	48:BS:64:ARG:NH2	2.38	0.56
34:BA:611:A:N6	34:BA:629:G:N1	2.25	0.56
34:BA:776:G:C5'	34:BA:777:A:OP1	2.51	0.56
34:BA:962:C:O2'	34:BA:1200:C:C5	2.57	0.56
34:BA:1109:C:C2'	34:BA:1110:A:H5'	2.34	0.56
34:BA:1220:G:O2'	52:BW:52:TYR:C	2.47	0.56
34:BA:1275:A:C2'	34:BA:1276:G:H5'	2.34	0.56
34:BA:1361:G:H8	34:BA:1361:G:H3'	1.69	0.56
34:BA:1438:G:C6	34:BA:1439:C:N4	2.73	0.56
34:BA:1443:G:H5'	34:BA:1446:A:OP1	2.04	0.56
36:BG:33:LEU:HD23	36:BG:36:ASP:OD1	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:157:ILE:O	36:BG:159:GLY:N	2.38	0.56
37:BH:98:GLU:HA	37:BH:103:ASN:HD21	1.65	0.56
37:BH:193:ASP:OD2	37:BH:194:LEU:HD21	2.04	0.56
39:BJ:29:ALA:O	39:BJ:30:LEU:C	2.47	0.56
39:BJ:36:ARG:HB2	39:BJ:36:ARG:NH1	2.20	0.56
40:BK:50:ILE:CD1	40:BK:58:PRO:HB3	2.34	0.56
40:BK:109:ASN:O	40:BK:119:ARG:NE	2.38	0.56
42:BM:49:PRO:HD3	42:BM:78:LYS:NZ	2.20	0.56
42:BM:49:PRO:CG	42:BM:81:ILE:HB	2.34	0.56
43:BN:32:ALA:CB	43:BN:75:ILE:HB	2.34	0.56
43:BN:41:PRO:O	43:BN:42:THR:C	2.47	0.56
43:BN:49:VAL:CG2	47:BR:41:ARG:HB2	2.35	0.56
46:BQ:36:LYS:CD	46:BQ:59:TYR:CD2	2.82	0.56
47:BR:34:TYR:N	47:BR:34:TYR:CD1	2.71	0.56
47:BR:41:ARG:HA	47:BR:44:LEU:CD2	2.35	0.56
49:BT:59:TRP:O	49:BT:60:LEU:C	2.47	0.56
50:BU:53:LEU:O	50:BU:82:MET:SD	2.63	0.56
52:BW:15:LEU:HD13	52:BW:71:LEU:HD13	1.81	0.56
52:BW:64:GLU:O	52:BW:67:VAL:HG23	2.03	0.56
53:BX:16:HIS:O	53:BX:17:ARG:C	2.48	0.56
54:BY:12:LYS:HG3	54:BY:17:THR:OG1	2.05	0.56
1:AA:154:G:N2	1:AA:173:G:C2	2.73	0.56
1:AA:179:G:H3'	1:AA:180:G:H8	1.70	0.56
1:AA:228:A:H2'	1:AA:230:U:OP1	2.04	0.56
1:AA:344:G:H2'	1:AA:345:A:O4'	2.04	0.56
1:AA:373:U:C4	27:Aa:63:TYR:HE2	2.23	0.56
1:AA:434:U:O2'	1:AA:435:C:O5'	2.23	0.56
1:AA:513:A:O2'	1:AA:1217:C:OP1	2.22	0.56
1:AA:526:A:C2	1:AA:2626:C:O4'	2.58	0.56
1:AA:540:G:C6	1:AA:541:C:C4	2.93	0.56
1:AA:569:U:O4	1:AA:2498:C:H4'	2.05	0.56
1:AA:585:G:N2	1:AA:1256:G:C6	2.74	0.56
1:AA:643:A:H4'	1:AA:644:A:C5'	2.35	0.56
1:AA:672:C:C6	13:AM:38:GLN:OE1	2.57	0.56
1:AA:679:C:H2'	1:AA:679:C:O2	2.06	0.56
1:AA:723:G:H2'	1:AA:724:U:H6	1.69	0.56
1:AA:754:C:O2'	1:AA:755:C:H5'	2.05	0.56
1:AA:820:A:N1	1:AA:821:A:N3	2.53	0.56
1:AA:948:G:O4'	1:AA:984:A:C2	2.58	0.56
1:AA:1056:G:H4'	1:AA:1057:A:C5'	2.34	0.56
1:AA:1142(A):A:N6	1:AA:1143:A:C8	2.74	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1174:A:N3	1:AA:1175:U:H5''	2.19	0.56
1:AA:1207:C:OP2	1:AA:1207:C:C6	2.58	0.56
1:AA:1264:G:H3'	1:AA:1264:G:H8	1.70	0.56
1:AA:1630(A):C:O2	1:AA:1633:G:O6	2.22	0.56
1:AA:1657:C:O2'	1:AA:1658:C:H5'	2.05	0.56
1:AA:1675:C:O2	1:AA:1675:C:C2'	2.52	0.56
1:AA:1840:G:O2'	1:AA:1841:U:H5'	2.05	0.56
1:AA:1902:C:H5'	4:AD:244:ARG:CZ	2.34	0.56
1:AA:1906:G:O2'	1:AA:1907:G:H5'	2.04	0.56
1:AA:1973:G:H2'	1:AA:1974:C:H6	1.70	0.56
1:AA:1980:G:O2'	1:AA:1981:A:H5''	2.04	0.56
1:AA:1992:G:H4'	1:AA:1993:U:C5	2.40	0.56
1:AA:2017:U:H1'	28:Ab:8:LYS:O	2.05	0.56
1:AA:2278:A:N6	24:AX:14:ARG:HB3	2.18	0.56
1:AA:2333:A:N3	1:AA:2333:A:C2'	2.67	0.56
1:AA:2375:G:H21	1:AA:2378:A:H61	1.45	0.56
1:AA:2479:G:H5''	1:AA:2537:U:H4'	1.86	0.56
1:AA:2553:G:N2	1:AA:2554:U:O2	2.38	0.56
1:AA:2575:C:OP1	5:AE:144:ARG:NH1	2.37	0.56
1:AA:2636:U:O3'	5:AE:79:ARG:NH1	2.38	0.56
1:AA:2646:C:C2'	1:AA:2647:U:H5'	2.35	0.56
1:AA:2794:C:H3'	1:AA:2799:A:C2	2.40	0.56
1:AA:2794:C:H3'	1:AA:2799:A:H2	1.70	0.56
2:AB:68:C:H2'	2:AB:69:G:O4'	2.04	0.56
3:AC:22:ILE:CD1	3:AC:193:ILE:HD11	2.35	0.56
3:AC:33:ALA:CB	3:AC:39:GLU:OE1	2.54	0.56
3:AC:78:ALA:C	3:AC:79:LYS:HG3	2.30	0.56
4:AD:90:ALA:O	4:AD:91:ARG:O	2.23	0.56
4:AD:175:LEU:HD22	4:AD:176:ARG:H	1.66	0.56
5:AE:4:ILE:CD1	5:AE:76:ARG:CZ	2.81	0.56
5:AE:104:VAL:HG12	5:AE:105:THR:H	1.67	0.56
5:AE:113:PHE:CA	5:AE:158:GLY:HA2	2.35	0.56
5:AE:127:ASP:CG	5:AE:135:HIS:H	2.12	0.56
5:AE:167:VAL:HG21	5:AE:187:ALA:HB3	1.85	0.56
6:AF:34:TRP:CD1	6:AF:38:ARG:NH2	2.73	0.56
8:AH:6:ARG:CD	8:AH:66:GLY:HA2	2.34	0.56
8:AH:69:ARG:CG	8:AH:70:THR:H	2.18	0.56
10:AJ:74:ALA:HB1	10:AJ:126:MET:CE	2.34	0.56
11:AK:123:TYR:CG	11:AK:129:PRO:HB2	2.40	0.56
12:AL:75:SER:O	17:AQ:77:PRO:O	2.23	0.56
13:AM:36:LYS:NZ	13:AM:42:SER:CB	2.68	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:46:LYS:HB2	13:AM:49:ARG:CB	2.20	0.56
13:AM:123:LEU:HD12	13:AM:130:PHE:CE1	2.40	0.56
14:AN:36:ALA:HA	14:AN:129:THR:CG2	2.35	0.56
15:AO:6:SER:OG	15:AO:9:LYS:CE	2.53	0.56
16:AP:68:GLN:O	16:AP:70:GLY:N	2.38	0.56
16:AP:76:LYS:CG	16:AP:77:ALA:N	2.68	0.56
17:AQ:72:VAL:N	17:AQ:74:ARG:NH1	2.52	0.56
18:AR:30:LYS:O	18:AR:32:PHE:N	2.32	0.56
18:AR:40:PHE:CD2	19:AS:78:LYS:HE2	2.39	0.56
18:AR:52:ARG:O	18:AR:54:LYS:N	2.38	0.56
19:AS:67:GLY:O	19:AS:92:THR:OG1	2.23	0.56
21:AU:15:GLU:HG3	21:AU:16:LYS:N	2.19	0.56
22:AV:1:MET:HG2	22:AV:33:LYS:CD	2.36	0.56
23:AW:24:LEU:CD2	23:AW:25:PRO:HD2	2.34	0.56
23:AW:43:GLU:CD	23:AW:43:GLU:N	2.51	0.56
23:AW:127:LYS:HA	23:AW:164:ALA:N	2.20	0.56
25:AY:7:GLU:CD	25:AY:7:GLU:H	2.13	0.56
31:Ae:13:ARG:CD	31:Ae:24:ALA:HB1	2.35	0.56
34:BA:412:A:H4'	34:BA:412:A:OP2	2.04	0.56
34:BA:413:G:H22	34:BA:428:G:C2'	2.17	0.56
34:BA:575:G:N1	34:BA:821:G:N7	2.53	0.56
34:BA:719:C:H3'	34:BA:720:C:C5	2.39	0.56
34:BA:900:A:C2'	34:BA:901:A:O5'	2.53	0.56
34:BA:974:A:H8	34:BA:974:A:OP1	1.88	0.56
34:BA:986:A:C2	52:BW:52:TYR:OH	2.58	0.56
34:BA:1003:G:C2	34:BA:1004:A:O2'	2.53	0.56
34:BA:1110:A:C5	34:BA:1111:A:N7	2.73	0.56
34:BA:1179:A:C4'	42:BM:103:THR:OG1	2.50	0.56
34:BA:1186:G:H21	47:BR:61:TRP:C	2.13	0.56
35:BF:35:GLU:OE2	35:BF:36:ARG:O	2.23	0.56
35:BF:70:PHE:HB3	35:BF:163:PHE:HB3	1.87	0.56
35:BF:78:GLN:HE22	35:BF:96:ARG:CZ	2.17	0.56
35:BF:105:PHE:C	35:BF:107:THR:N	2.61	0.56
35:BF:222:ILE:O	35:BF:226:ARG:CB	2.42	0.56
36:BG:25:GLY:N	36:BG:28:GLN:HE22	2.03	0.56
37:BH:98:GLU:O	37:BH:103:ASN:HB3	2.04	0.56
38:BI:72:GLN:NE2	38:BI:145:LYS:H	2.02	0.56
39:BJ:67:MET:SD	39:BJ:67:MET:O	2.62	0.56
42:BM:36:TYR:HD2	42:BM:37:PHE:CE2	2.23	0.56
42:BM:58:HIS:HD2	42:BM:59:PHE:CE1	2.23	0.56
42:BM:106:ALA:C	42:BM:107:ARG:HG3	2.29	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:32:ALA:O	43:BN:33:GLN:HB2	2.05	0.56
44:BO:41:THR:HB	44:BO:71:LYS:CE	2.34	0.56
45:BP:84:LEU:HD23	45:BP:85:ILE:N	2.20	0.56
46:BQ:64:TRP:O	46:BQ:65:LYS:HB3	2.03	0.56
48:BS:8:LYS:HE2	48:BS:12:ILE:HD11	1.86	0.56
50:BU:59:ILE:CG1	50:BU:60:ILE:N	2.67	0.56
51:BV:40:LEU:N	51:BV:40:LEU:HD23	2.20	0.56
52:BW:30:LEU:CG	52:BW:50:ALA:HB2	2.34	0.56
52:BW:80:TYR:CG	52:BW:81:ARG:N	2.73	0.56
55:CA:27:GLN:CG	55:CA:28:GLN:CB	2.83	0.56
55:CA:43:MET:O	55:CA:44:ASP:HB2	2.03	0.56
55:CA:67:ASP:HB3	55:CA:191:VAL:CG2	2.35	0.56
55:CA:89:MET:CG	55:CA:119:TYR:CE2	2.88	0.56
55:CA:102:PHE:CG	55:CA:132:ARG:NH1	2.74	0.56
55:CA:130:VAL:CG2	55:CA:166:SER:HB2	2.35	0.56
55:CA:146:ASP:C	55:CA:149:VAL:HG12	2.30	0.56
55:CA:260:LEU:HD13	55:CA:260:LEU:N	2.20	0.56
55:CA:495:LYS:HB3	55:CA:515:GLY:O	2.03	0.56
1:AA:14:A:N6	1:AA:15:G:C2	2.71	0.56
1:AA:184:C:O3'	1:AA:217:G:N2	2.38	0.56
1:AA:205:G:O2'	1:AA:206:U:OP2	2.23	0.56
1:AA:239:U:C1'	1:AA:259:G:N2	2.67	0.56
1:AA:246:C:C2	1:AA:247:G:C8	2.93	0.56
1:AA:246:C:O2'	1:AA:385:C:H4'	2.05	0.56
1:AA:280:C:O3'	1:AA:281:G:C3'	2.34	0.56
1:AA:308:G:N1	1:AA:309:G:N3	2.53	0.56
1:AA:338:G:OP1	22:AV:2:ARG:NH2	2.37	0.56
1:AA:424:G:C2'	1:AA:425:G:H5'	2.35	0.56
1:AA:455:C:P	1:AA:455:C:O4'	2.63	0.56
1:AA:460:A:H2'	1:AA:461:C:O4'	2.06	0.56
1:AA:548:A:N7	1:AA:549:G:H1'	2.20	0.56
1:AA:584:C:H2'	1:AA:585:G:H5'	1.87	0.56
1:AA:653:A:H3'	1:AA:654:A:H4'	1.87	0.56
1:AA:662:G:H5'	13:AM:16:ARG:HA	1.86	0.56
1:AA:721:C:C2	1:AA:722:A:N7	2.73	0.56
1:AA:792:G:H21	1:AA:2072:G:C2'	2.19	0.56
1:AA:942:G:C5'	13:AM:32:THR:HG22	2.35	0.56
1:AA:975:G:N3	1:AA:975:G:H2'	2.21	0.56
1:AA:996:A:H5'	18:AR:93:LYS:HD2	1.87	0.56
1:AA:1020:A:H2	1:AA:1140:C:H2'	1.71	0.56
1:AA:1061:U:O5'	10:AJ:52:ILE:HD13	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1074:G:O2'	1:AA:1075:C:O5'	2.18	0.56
1:AA:1083:U:C2	1:AA:1085:A:C5	2.93	0.56
1:AA:1139:G:O5'	1:AA:1139:G:H8	1.88	0.56
1:AA:1354:A:H62	1:AA:1377:G:H21	1.53	0.56
1:AA:1511:A:H3'	1:AA:1511:A:H8	1.70	0.56
1:AA:1523:U:N3	1:AA:1524:G:N7	2.54	0.56
1:AA:1592:C:O2'	1:AA:1593:G:C5'	2.53	0.56
1:AA:1629:U:H1'	1:AA:2699:C:OP1	2.04	0.56
1:AA:1664:A:C2'	1:AA:1665:A:H8	2.18	0.56
1:AA:1780:A:C2'	1:AA:1781:C:OP1	2.52	0.56
1:AA:1909:C:H6	1:AA:1909:C:O5'	1.88	0.56
1:AA:1923:U:C4	1:AA:1924:C:N4	2.73	0.56
1:AA:1942:C:P	1:AA:1943:U:H3'	2.46	0.56
1:AA:1950:G:N7	1:AA:1951:U:H5	2.01	0.56
1:AA:1980:G:O2'	1:AA:1981:A:OP1	2.21	0.56
1:AA:2067:G:N1	1:AA:2069:G:C4	2.73	0.56
1:AA:2075:U:O2	1:AA:2075:U:C2'	2.53	0.56
1:AA:2184:G:N3	1:AA:2184:G:H2'	2.21	0.56
1:AA:2287:A:C8	1:AA:2289:G:C5	2.93	0.56
1:AA:2311:A:H5''	1:AA:2312:U:C5	2.40	0.56
1:AA:2352:A:C2	24:AX:34:GLY:HA3	2.40	0.56
1:AA:2438:U:O2	1:AA:2441:C:C5	2.58	0.56
1:AA:2453:A:N6	1:AA:2500:U:H3	2.01	0.56
1:AA:2459:A:C2	1:AA:2492:U:N3	2.73	0.56
1:AA:2468:G:HO2'	1:AA:2469:A:H8	1.52	0.56
1:AA:2470:G:N2	1:AA:2471:C:C2	2.72	0.56
1:AA:2531:A:O2'	1:AA:2532:G:H5'	2.05	0.56
1:AA:2623:G:H5'	1:AA:2826:A:C1'	2.33	0.56
1:AA:2666:C:C2'	1:AA:2667:C:H5''	2.35	0.56
1:AA:2749:A:O3'	8:AH:62:LYS:HE2	2.05	0.56
1:AA:2781:A:C3'	1:AA:2782:G:H4'	2.35	0.56
1:AA:2803:C:C4	1:AA:2804:C:N4	2.73	0.56
1:AA:2823:A:OP2	5:AE:113:PHE:CE1	2.59	0.56
1:AA:2848:G:C2'	17:AQ:99:LEU:HD21	2.35	0.56
2:AB:69:G:C5'	2:AB:70:C:OP2	2.54	0.56
3:AC:7:TYR:CE2	3:AC:11:LEU:HD13	2.41	0.56
3:AC:131:LEU:HB3	3:AC:136:LEU:HB2	1.85	0.56
3:AC:161:ILE:C	3:AC:161:ILE:HD12	2.30	0.56
3:AC:187:ASP:OD1	3:AC:187:ASP:C	2.48	0.56
4:AD:63:ARG:HD3	4:AD:65:ILE:HD11	1.88	0.56
4:AD:64:ILE:O	4:AD:64:ILE:HG23	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:127:VAL:CA	4:AD:193:VAL:HG12	2.17	0.56
4:AD:171:ASP:O	4:AD:186:HIS:HB3	2.04	0.56
4:AD:208:LYS:HZ1	4:AD:211:ARG:NH2	2.02	0.56
4:AD:216:GLY:O	4:AD:217:ARG:CB	2.42	0.56
4:AD:226:MET:O	4:AD:228:PRO:N	2.38	0.56
4:AD:254:THR:C	4:AD:255:LYS:HG3	2.29	0.56
5:AE:48:GLN:O	5:AE:77:ILE:HG13	2.05	0.56
6:AF:6:VAL:C	6:AF:18:ARG:HD2	2.30	0.56
6:AF:18:ARG:HG3	6:AF:19:GLU:N	2.21	0.56
6:AF:18:ARG:C	6:AF:19:GLU:CG	2.77	0.56
6:AF:31:HIS:CB	13:AM:11:GLY:H	2.18	0.56
6:AF:40:GLN:N	6:AF:184:TYR:OH	2.37	0.56
6:AF:50:SER:O	6:AF:92:PRO:HG2	2.04	0.56
7:AG:74:LYS:HB3	7:AG:87:PRO:CG	2.36	0.56
8:AH:45:VAL:CG2	8:AH:50:VAL:HG13	2.31	0.56
8:AH:51:ARG:HD3	8:AH:52:VAL:H	1.70	0.56
8:AH:69:ARG:CG	8:AH:70:THR:N	2.68	0.56
8:AH:95:ARG:HD2	8:AH:95:ARG:N	2.20	0.56
8:AH:118:PRO:CD	8:AH:121:ILE:HG21	2.35	0.56
8:AH:127:GLU:HB3	8:AH:129:THR:N	2.21	0.56
9:AI:47:ASN:O	9:AI:95:GLN:CB	2.53	0.56
10:AJ:64:SER:HB3	10:AJ:65:PHE:HB3	1.88	0.56
10:AJ:64:SER:C	10:AJ:65:PHE:HD1	2.12	0.56
10:AJ:107:ILE:O	10:AJ:108:ALA:HB2	2.05	0.56
11:AK:3:THR:CG2	11:AK:4:TYR:H	2.07	0.56
11:AK:67:LEU:HB2	11:AK:88:GLU:OE2	2.05	0.56
11:AK:96:GLU:OE1	11:AK:96:GLU:N	2.38	0.56
11:AK:99:LEU:CD2	11:AK:122:VAL:HG21	2.36	0.56
12:AL:94:ARG:CG	12:AL:96:THR:N	2.67	0.56
13:AM:47:ASP:HB3	13:AM:48:PRO:HD2	1.86	0.56
13:AM:97:PRO:CA	13:AM:102:ARG:CZ	2.83	0.56
14:AN:126:PRO:C	14:AN:127:ILE:CG1	2.78	0.56
15:AO:60:LEU:H	15:AO:60:LEU:CD2	2.19	0.56
15:AO:83:ILE:O	15:AO:86:ARG:N	2.38	0.56
15:AO:87:TYR:O	15:AO:89:ASP:CG	2.48	0.56
15:AO:102:GLU:CD	15:AO:103:ARG:HG2	2.31	0.56
16:AP:24:LEU:HD23	16:AP:39:ILE:HG22	1.86	0.56
16:AP:51:ALA:O	16:AP:73:LEU:HD12	2.05	0.56
16:AP:95:HIS:CG	16:AP:96:GLY:N	2.73	0.56
17:AQ:76:PHE:HZ	17:AQ:78:LEU:HD12	1.71	0.56
17:AQ:101:PHE:C	17:AQ:103:ARG:H	2.12	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:16:LYS:CG	18:AR:20:LEU:HD21	2.35	0.56
18:AR:49:HIS:HA	18:AR:52:ARG:NE	2.20	0.56
18:AR:61:TRP:HZ3	18:AR:94:ASN:N	2.04	0.56
18:AR:80:ILE:HA	18:AR:83:LEU:HD13	1.87	0.56
19:AS:18:LEU:O	19:AS:20:LEU:N	2.38	0.56
19:AS:35:LEU:C	19:AS:61:VAL:HG13	2.30	0.56
19:AS:83:ARG:HD3	19:AS:84:LYS:HA	1.87	0.56
21:AU:42:ALA:O	21:AU:46:ALA:CB	2.54	0.56
21:AU:47:PHE:HE2	21:AU:89:ILE:CA	2.08	0.56
21:AU:52:VAL:O	21:AU:82:GLN:HB3	2.06	0.56
21:AU:55:ASN:N	21:AU:55:ASN:ND2	2.48	0.56
22:AV:32:PRO:HB2	22:AV:34:LYS:CG	2.35	0.56
22:AV:53:PRO:C	22:AV:55:TYR:N	2.63	0.56
22:AV:88:LYS:HG2	22:AV:89:PHE:N	2.21	0.56
23:AW:10:ARG:CB	23:AW:36:LYS:HD2	2.25	0.56
23:AW:40:ASP:O	23:AW:44:PHE:CD1	2.59	0.56
23:AW:104:PHE:N	23:AW:104:PHE:HD1	2.03	0.56
23:AW:105:VAL:HB	23:AW:140:ASP:CG	2.30	0.56
23:AW:116:VAL:HG21	23:AW:145:GLU:HA	1.86	0.56
25:AY:26:GLU:HA	25:AY:29:GLU:HG3	1.86	0.56
25:AY:27:LEU:C	25:AY:30:LEU:HG	2.29	0.56
27:Aa:64:GLY:HA2	27:Aa:67:TYR:HD2	1.66	0.56
27:Aa:65:ASP:OD2	27:Aa:69:LYS:HE3	2.05	0.56
29:Ac:20:ASN:CG	29:Ac:42:TRP:HD1	2.12	0.56
29:Ac:24:GLU:CD	31:Ae:37:SER:HB2	2.30	0.56
31:Ae:44:LYS:HZ2	31:Ae:44:LYS:HA	1.71	0.56
34:BA:22:G:C2'	34:BA:23:C:C6	2.82	0.56
34:BA:33:A:O2'	34:BA:363:A:H1'	2.05	0.56
34:BA:34:C:O2'	34:BA:35:G:C5'	2.50	0.56
34:BA:62:U:H1'	34:BA:379:C:H1'	1.87	0.56
34:BA:194:C:H5''	53:BX:65:LYS:CD	2.35	0.56
34:BA:250:A:H5'	34:BA:252:U:O4'	2.05	0.56
34:BA:402:G:P	37:BH:74:GLN:HE21	2.28	0.56
34:BA:521:G:OP2	45:BP:54:LYS:NZ	2.38	0.56
34:BA:539:A:OP1	45:BP:114:LYS:NZ	2.38	0.56
34:BA:558:G:O5'	34:BA:559:A:H3'	2.06	0.56
34:BA:562:C:O2	45:BP:15:ARG:O	2.23	0.56
34:BA:575:G:C6	34:BA:821:G:C8	2.93	0.56
34:BA:689:C:OP2	44:BO:46:GLY:HA3	2.04	0.56
34:BA:696:A:C2	34:BA:697:U:O4'	2.58	0.56
34:BA:713:G:H2'	34:BA:714:G:N7	2.20	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:750:G:H1'	48:BS:22:THR:C	2.31	0.56
34:BA:843:U:C3'	34:BA:848:C:H5'	2.35	0.56
34:BA:973:G:C1'	43:BN:55:LYS:H	2.15	0.56
34:BA:1103:C:O2'	35:BF:111:ARG:HD2	2.05	0.56
34:BA:1115:C:N3	34:BA:1186:G:N1	2.49	0.56
34:BA:1171:G:H2'	34:BA:1172:C:C5	2.40	0.56
34:BA:1241:G:OP2	34:BA:1241:G:H8	1.88	0.56
34:BA:1269:A:C4'	34:BA:1312:G:N2	2.66	0.56
34:BA:1317:C:C2	34:BA:1318:A:C4	2.93	0.56
34:BA:1362(A):C:H5'	34:BA:1363:A:P	2.45	0.56
34:BA:1462:G:C6	34:BA:1463:C:N4	2.73	0.56
34:BA:1515:C:O2'	34:BA:1516:G:H5'	2.05	0.56
35:BF:16:HIS:NE2	35:BF:213:LEU:HB3	2.20	0.56
35:BF:44:LEU:O	35:BF:45:GLN:C	2.48	0.56
35:BF:115:LEU:HD13	35:BF:145:LEU:HG	1.87	0.56
35:BF:134:GLU:HB3	35:BF:135:GLN:NE2	2.21	0.56
35:BF:152:PHE:O	35:BF:154:LEU:N	2.38	0.56
35:BF:187:LEU:CA	35:BF:201:ILE:O	2.45	0.56
35:BF:219:VAL:CG1	35:BF:222:ILE:HD11	2.32	0.56
36:BG:58:GLU:N	36:BG:65:ALA:HB3	2.18	0.56
36:BG:107:GLN:OE1	36:BG:111:LEU:HD22	2.05	0.56
36:BG:142:MET:C	36:BG:142:MET:SD	2.88	0.56
37:BH:4:TYR:CG	37:BH:5:ILE:N	2.74	0.56
37:BH:100:ARG:CZ	37:BH:137:SER:HA	2.34	0.56
37:BH:118:ARG:NH2	37:BH:118:ARG:HG3	2.21	0.56
38:BI:63:ARG:HA	38:BI:66:MET:CG	2.33	0.56
38:BI:75:THR:HG23	38:BI:75:THR:O	2.05	0.56
38:BI:109:ILE:HG23	38:BI:110:LEU:CD2	2.34	0.56
39:BJ:89:MET:CE	51:BV:75:ILE:HG21	2.36	0.56
41:BL:9:MET:O	41:BL:10:LEU:C	2.48	0.56
41:BL:18:ARG:HH11	41:BL:18:ARG:CB	2.17	0.56
42:BM:97:LYS:NZ	42:BM:102:LEU:HD22	2.21	0.56
43:BN:27:ALA:CB	43:BN:85:LEU:HD21	2.35	0.56
44:BO:64:ALA:O	44:BO:65:ALA:C	2.47	0.56
45:BP:5:PRO:O	45:BP:6:THR:OG1	2.23	0.56
45:BP:41:ARG:HH12	45:BP:55:VAL:HG11	1.67	0.56
45:BP:85:ILE:HG13	45:BP:99:HIS:O	2.05	0.56
45:BP:85:ILE:O	45:BP:85:ILE:CG2	2.51	0.56
45:BP:86:ARG:HH22	45:BP:119:LYS:HG2	1.70	0.56
46:BQ:15:VAL:CG2	46:BQ:39:ILE:CG1	2.04	0.56
48:BS:27:VAL:HG12	48:BS:31:LEU:HD22	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:7:ALA:HB3	49:BT:18:ARG:HB2	1.87	0.56
49:BT:39:TYR:HD1	49:BT:40:ASP:N	2.02	0.56
49:BT:73:LEU:C	49:BT:73:LEU:CD1	2.76	0.56
50:BU:20:THR:C	50:BU:21:VAL:HG13	2.30	0.56
50:BU:32:TYR:O	50:BU:33:GLY:C	2.48	0.56
50:BU:43:LEU:HD11	50:BU:69:LYS:CG	2.35	0.56
51:BV:64:ARG:O	51:BV:67:ALA:HB3	2.04	0.56
52:BW:16:LEU:HD12	52:BW:19:VAL:HG12	1.87	0.56
53:BX:40:ALA:O	53:BX:41:ILE:C	2.47	0.56
55:CA:25:LEU:O	55:CA:28:GLN:CD	2.49	0.56
55:CA:61:THR:O	55:CA:62:ALA:HB2	2.05	0.56
55:CA:205:PHE:CE1	55:CA:226:ILE:CD1	2.79	0.56
55:CA:209:ILE:CD1	55:CA:288:VAL:HG21	2.33	0.56
55:CA:240:ILE:CG2	55:CA:241:ASP:H	2.13	0.56
55:CA:398:GLU:CD	55:CA:444:PRO:HB3	2.27	0.56
55:CA:500:ALA:O	55:CA:504:LEU:HD22	2.05	0.56
55:CA:572:ILE:HG22	55:CA:587:ILE:HG21	1.86	0.56
1:AA:2:G:C5	1:AA:2902:C:C5	2.74	0.56
1:AA:72:U:C4	1:AA:112:U:H1'	2.40	0.56
1:AA:173:G:N2	1:AA:174:C:C2	2.73	0.56
1:AA:303:U:C2'	1:AA:304:G:H5'	2.35	0.56
1:AA:574:C:H41	1:AA:2054:A:C5'	2.19	0.56
1:AA:641:C:H2'	1:AA:642:G:C5'	2.35	0.56
1:AA:650:C:O2	1:AA:651:G:O4'	2.23	0.56
1:AA:684:G:C2	1:AA:775:G:C6	2.93	0.56
1:AA:691:C:H1'	4:AD:45:ASN:ND2	2.16	0.56
1:AA:824:A:C3'	1:AA:825:C:C5	2.89	0.56
1:AA:873:G:H4'	14:AN:65:PHE:CZ	2.40	0.56
1:AA:892:G:C2	1:AA:893:C:N4	2.74	0.56
1:AA:903:C:C4	1:AA:904:C:N4	2.73	0.56
1:AA:931:G:H21	26:AZ:24:LYS:C	2.13	0.56
1:AA:948:G:C6	1:AA:970:C:C2	2.94	0.56
1:AA:1026:U:O2	1:AA:1026:U:C2'	2.40	0.56
1:AA:1237:A:O2'	1:AA:1238:G:P	2.64	0.56
1:AA:1314:C:O2'	1:AA:1315:C:H5'	2.05	0.56
1:AA:1453:A:OP2	1:AA:1453:A:C4'	2.53	0.56
1:AA:1707:G:C4	1:AA:1708:C:C5	2.92	0.56
1:AA:1717:G:H21	1:AA:1718:G:H1'	1.69	0.56
1:AA:1905:C:O2'	1:AA:1929:G:O2'	2.22	0.56
1:AA:1943:U:C4'	1:AA:1944:U:O5'	2.53	0.56
1:AA:1996:C:H2'	1:AA:1997:G:O5'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2011:U:C2'	1:AA:2012:G:H8	2.18	0.56
1:AA:2132:U:O2	1:AA:2132:U:C2'	2.53	0.56
1:AA:2226:C:O2	4:AD:262:ARG:CZ	2.54	0.56
1:AA:2286:A:H4'	1:AA:2287:A:N3	2.20	0.56
1:AA:2324:C:O2	1:AA:2385:C:C5	2.58	0.56
1:AA:2366:A:N6	1:AA:2367:G:C2	2.74	0.56
1:AA:2461:C:C1'	1:AA:2492:U:C5	2.81	0.56
1:AA:2487:G:H2'	1:AA:2488:A:H8	1.70	0.56
1:AA:2661:G:C5'	55:CA:14:VAL:CG2	2.83	0.56
1:AA:2706:G:C2	1:AA:2707:G:C5	2.93	0.56
1:AA:2749:A:C2	1:AA:2757:A:N1	2.74	0.56
1:AA:2815:C:C3'	28:Ab:42:PRO:HG3	2.35	0.56
1:AA:2834:G:H3'	1:AA:2834:G:H8	1.69	0.56
2:AB:11:C:H3'	24:AX:74:ARG:NH2	2.20	0.56
3:AC:7:TYR:CE2	3:AC:11:LEU:HD22	2.41	0.56
3:AC:124:GLY:HA2	3:AC:137:LEU:HD21	1.86	0.56
3:AC:153:ILE:HA	3:AC:156:ILE:CD1	2.26	0.56
4:AD:7:LYS:CD	4:AD:25:THR:HG22	2.36	0.56
5:AE:173:VAL:HG13	5:AE:183:LEU:O	2.04	0.56
5:AE:199:ARG:O	5:AE:200:GLU:CD	2.48	0.56
6:AF:53:THR:OG1	6:AF:54:ARG:N	2.37	0.56
7:AG:12:TYR:CE1	7:AG:13:GLU:HG3	2.41	0.56
7:AG:36:LYS:HZ3	7:AG:38:VAL:H	1.52	0.56
8:AH:7:LEU:N	8:AH:8:PRO:HD2	2.17	0.56
8:AH:9:ILE:HG13	8:AH:69:ARG:HH22	1.70	0.56
8:AH:61:HIS:O	8:AH:64:LEU:HB2	2.05	0.56
8:AH:107:VAL:HG13	8:AH:152:ARG:CD	2.35	0.56
10:AJ:27:LEU:HB3	10:AJ:59:ILE:HD12	1.86	0.56
10:AJ:60:TYR:CD1	10:AJ:61:ALA:N	2.73	0.56
10:AJ:84:LEU:C	10:AJ:86:LYS:HZ2	2.11	0.56
11:AK:4:TYR:CZ	18:AR:101:ARG:CZ	2.88	0.56
11:AK:74:ARG:NE	11:AK:82:LEU:HD11	2.20	0.56
13:AM:72:PRO:HA	13:AM:110:TYR:CD2	2.40	0.56
13:AM:91:PHE:O	13:AM:95:VAL:CB	2.52	0.56
14:AN:119:ARG:O	14:AN:123:HIS:HB2	2.05	0.56
15:AO:105:ARG:HG3	15:AO:106:GLY:N	2.20	0.56
16:AP:17:ARG:NH2	16:AP:25:ARG:HD2	2.21	0.56
19:AS:7:THR:C	19:AS:9:GLY:H	2.12	0.56
19:AS:74:LYS:C	19:AS:75:PHE:CD1	2.83	0.56
20:AT:14:PRO:CD	20:AT:99:ARG:HG3	2.35	0.56
22:AV:12:THR:HA	22:AV:73:ARG:NE	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:76:LEU:HD23	23:AW:82:ARG:O	2.04	0.56
23:AW:77:ASP:H	23:AW:83:PRO:HA	1.70	0.56
29:Ac:17:LYS:HD3	29:Ac:17:LYS:H	1.70	0.56
29:Ac:25:LYS:O	29:Ac:26:ASN:HB2	2.04	0.56
34:BA:112:G:OP2	49:BT:27:LYS:HD3	2.05	0.56
34:BA:187:C:C4	34:BA:188:U:O2	2.58	0.56
34:BA:250:A:H4'	34:BA:251:G:O5'	2.05	0.56
34:BA:528:C:H42	45:BP:49:ASN:ND2	2.01	0.56
34:BA:589:C:N4	34:BA:590:C:N4	2.53	0.56
34:BA:675:A:H2'	34:BA:676:A:H8	1.69	0.56
34:BA:765:G:O2'	34:BA:766:A:C5'	2.42	0.56
34:BA:772:U:C2	34:BA:773:G:C8	2.94	0.56
34:BA:778:G:N3	34:BA:779:C:C6	2.73	0.56
34:BA:778:G:HO2'	34:BA:779:C:H5'	1.66	0.56
34:BA:815:A:C8	34:BA:819:A:H2	2.24	0.56
34:BA:943:U:H2'	34:BA:944:G:H8	1.70	0.56
34:BA:1108:G:C6	34:BA:1109:C:N4	2.73	0.56
34:BA:1164:G:C6	34:BA:1165:C:N4	2.73	0.56
34:BA:1251:A:H2'	34:BA:1252:A:N7	2.20	0.56
34:BA:1464:G:H2'	34:BA:1465:C:C6	2.40	0.56
35:BF:60:ASP:CG	35:BF:64:ARG:HH22	2.14	0.56
35:BF:80:ILE:HD12	35:BF:208:ILE:CG2	2.34	0.56
36:BG:155:GLY:O	36:BG:196:LEU:HB2	2.06	0.56
37:BH:91:SER:O	37:BH:92:VAL:C	2.49	0.56
39:BJ:23:LYS:HA	39:BJ:26:ILE:CG1	2.35	0.56
40:BK:47:CYS:SG	40:BK:50:ILE:HD12	2.46	0.56
40:BK:115:ARG:CB	40:BK:118:VAL:CG2	2.77	0.56
41:BL:61:VAL:CG1	41:BL:62:TYR:H	2.19	0.56
42:BM:118:LYS:HB2	42:BM:121:ARG:HB2	1.87	0.56
44:BO:23:ALA:CB	44:BO:28:THR:HG23	2.35	0.56
45:BP:102:ARG:HD3	45:BP:110:VAL:HG13	1.87	0.56
46:BQ:15:VAL:CG1	46:BQ:34:LEU:HD23	2.25	0.56
46:BQ:22:ILE:CG2	46:BQ:67:GLU:OE1	2.53	0.56
47:BR:10:ALA:O	47:BR:12:ARG:HG2	2.05	0.56
47:BR:33:VAL:O	47:BR:34:TYR:O	2.23	0.56
47:BR:55:GLY:O	47:BR:56:VAL:O	2.23	0.56
49:BT:49:LEU:HD12	49:BT:50:LYS:H	1.70	0.56
50:BU:34:LYS:HD2	50:BU:35:VAL:H	1.69	0.56
51:BV:22:VAL:HG22	51:BV:55:ARG:O	2.05	0.56
53:BX:89:ARG:HH21	53:BX:104:LEU:HD22	1.70	0.56
54:BY:6:ARG:HH11	54:BY:15:ARG:NH2	2.03	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:228:ARG:HA	55:CA:267:LEU:HD13	1.87	0.56
55:CA:325:PHE:HB3	55:CA:330:GLN:HB3	1.87	0.56
55:CA:426:LEU:N	55:CA:441:TYR:CD2	2.74	0.56
1:AA:68:G:N2	1:AA:74:A:O5'	2.38	0.56
1:AA:269:U:C5	1:AA:270(Z):U:OP2	2.58	0.56
1:AA:270:A:N6	1:AA:370:G:C8	2.73	0.56
1:AA:281:G:H22	1:AA:283:A:C4'	2.18	0.56
1:AA:510:C:P	1:AA:512:G:N1	2.74	0.56
1:AA:740:U:O5'	1:AA:1784:A:N1	2.38	0.56
1:AA:772:C:H2'	1:AA:773:U:H6	1.70	0.56
1:AA:804:A:O2'	1:AA:806:C:N3	2.38	0.56
1:AA:882:G:H3'	1:AA:883:G:C4'	2.26	0.56
1:AA:943:U:O4'	1:AA:943:U:P	2.64	0.56
1:AA:988:A:C2	1:AA:989:G:N2	2.73	0.56
1:AA:1024:G:OP2	1:AA:1025:G:N3	2.39	0.56
1:AA:1081:U:H5'	10:AJ:125:ARG:CD	2.17	0.56
1:AA:1127:A:C8	1:AA:1127:A:C3'	2.89	0.56
1:AA:1221:C:N3	1:AA:1229:G:N1	2.54	0.56
1:AA:1285:G:C8	1:AA:1285:G:O5'	2.59	0.56
1:AA:1366:A:C2	1:AA:1367:A:H1'	2.40	0.56
1:AA:1401:G:C5	1:AA:1402:C:C5	2.93	0.56
1:AA:1417:C:O3'	1:AA:1588:C:H1'	2.05	0.56
1:AA:1488:G:C3'	1:AA:1489:U:C5'	2.83	0.56
1:AA:1669:A:N6	1:AA:1994:C:C2	2.73	0.56
1:AA:1679:U:C4'	1:AA:1990:C:O2'	2.53	0.56
1:AA:1802:A:N6	1:AA:1822:G:H1'	2.08	0.56
1:AA:1946:U:H2'	1:AA:1947:C:H6	1.71	0.56
1:AA:1947:C:N3	1:AA:1948:G:C8	2.74	0.56
1:AA:1955:U:O3'	1:AA:1956:U:C5	2.58	0.56
1:AA:1993:U:N1	1:AA:1994:C:C5	2.73	0.56
1:AA:2062:A:H2'	1:AA:2063:C:OP1	2.05	0.56
1:AA:2161:C:C2'	1:AA:2162:G:H8	2.13	0.56
1:AA:2194:G:H2'	1:AA:2194:G:N3	2.19	0.56
1:AA:2346:A:H5'	1:AA:2383:G:O4'	2.06	0.56
1:AA:2347:C:C5	1:AA:2382:G:H1'	2.41	0.56
1:AA:2353:G:H1'	24:AX:34:GLY:HA3	1.87	0.56
1:AA:2646:C:H2'	1:AA:2647:U:H6	1.68	0.56
3:AC:56:GLN:HA	3:AC:201:PRO:CB	2.36	0.56
3:AC:127:LEU:HB3	3:AC:131:LEU:CD1	2.36	0.56
4:AD:78:LYS:HE2	4:AD:114:GLY:O	2.06	0.56
4:AD:102:LYS:O	4:AD:103:ARG:HG3	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:132:PRO:HA	4:AD:189:CYS:O	2.06	0.56
4:AD:135:PHE:N	4:AD:135:PHE:CD1	2.73	0.56
4:AD:169:GLU:CG	4:AD:184:LYS:NZ	2.68	0.56
5:AE:4:ILE:C	5:AE:4:ILE:HD12	2.29	0.56
5:AE:59:VAL:CG1	5:AE:62:PRO:HD2	2.36	0.56
5:AE:149:ARG:NH2	5:AE:151:TYR:HA	2.19	0.56
5:AE:201:THR:O	5:AE:202:LYS:HD3	2.05	0.56
6:AF:120:GLU:OE1	6:AF:120:GLU:HA	2.04	0.56
7:AG:30:GLU:OE2	7:AG:33:ARG:NE	2.36	0.56
8:AH:74:ASN:ND2	8:AH:75:ALA:N	2.53	0.56
10:AJ:19:PRO:HD3	10:AJ:38:VAL:H	1.71	0.56
11:AK:4:TYR:CE2	18:AR:100:VAL:HB	2.41	0.56
11:AK:34:LEU:HB3	11:AK:116:LEU:CD2	2.36	0.56
11:AK:76:SER:OG	11:AK:81:GLY:O	2.21	0.56
12:AL:3:GLN:OE1	12:AL:6:THR:HG21	2.05	0.56
12:AL:67:LYS:N	12:AL:67:LYS:HE2	2.20	0.56
13:AM:51:PHE:O	13:AM:55:ARG:CG	2.53	0.56
13:AM:81:GLN:CA	13:AM:86:LYS:CG	2.83	0.56
14:AN:68:ILE:HG13	14:AN:69:PHE:H	1.69	0.56
14:AN:74:TYR:HD1	14:AN:74:TYR:H	1.54	0.56
15:AO:20:LEU:CD1	15:AO:21:TYR:N	2.69	0.56
15:AO:28:LEU:HD13	15:AO:28:LEU:C	2.31	0.56
15:AO:63:ARG:HG2	15:AO:63:ARG:HH11	1.71	0.56
15:AO:86:ARG:NH1	15:AO:87:TYR:HE1	2.03	0.56
18:AR:45:TYR:C	18:AR:47:TYR:N	2.60	0.56
18:AR:55:ARG:HB3	18:AR:58:ARG:NE	2.15	0.56
20:AT:81:ALA:CB	20:AT:98:LYS:O	2.54	0.56
21:AU:7:VAL:CG2	25:AY:31:ARG:NH1	2.65	0.56
23:AW:99:TYR:CE1	23:AW:124:ILE:HB	2.41	0.56
23:AW:118:GLN:OE1	23:AW:172:ALA:HB1	2.05	0.56
24:AX:1:MET:O	24:AX:2:ALA:HB3	2.05	0.56
24:AX:70:GLN:O	24:AX:78:TYR:O	2.23	0.56
28:Ab:20:ARG:HA	28:Ab:23:HIS:HD2	1.70	0.56
34:BA:22:G:C4	34:BA:23:C:C5	2.93	0.56
34:BA:68:G:H4'	34:BA:171:A:O4'	2.06	0.56
34:BA:186(C):G:O2'	34:BA:186(D):C:H5'	2.05	0.56
34:BA:189:U:C2	50:BU:63:ARG:NH2	2.72	0.56
34:BA:266:G:N2	34:BA:270:A:N6	2.53	0.56
34:BA:409:G:C2	34:BA:410:G:C8	2.93	0.56
34:BA:501:C:H2'	34:BA:502:G:C8	2.41	0.56
34:BA:593:G:C5	34:BA:594:G:C8	2.94	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:718:G:C4'	44:BO:117:ASN:HD21	2.17	0.56
34:BA:782:A:N6	34:BA:801:U:C6	2.74	0.56
34:BA:815:A:C2	34:BA:1529:G:N2	2.74	0.56
34:BA:935:A:H2'	34:BA:936:C:C6	2.41	0.56
34:BA:962:C:O2'	34:BA:963:G:H5'	2.05	0.56
34:BA:1138:G:N1	34:BA:1140:C:C6	2.73	0.56
34:BA:1144:G:H2'	34:BA:1144:G:N3	2.20	0.56
34:BA:1241:G:O2'	34:BA:1242:C:H5'	2.06	0.56
34:BA:1278:U:H5'	34:BA:1279:A:C4'	2.35	0.56
34:BA:1302:U:H2'	34:BA:1303:C:H5'	1.87	0.56
34:BA:1526:G:H2'	34:BA:1527:C:C6	2.41	0.56
35:BF:15:VAL:C	35:BF:16:HIS:HD1	2.14	0.56
35:BF:20:GLU:OE1	35:BF:20:GLU:N	2.38	0.56
35:BF:67:THR:OG1	35:BF:155:LEU:HD11	2.04	0.56
35:BF:173:ALA:HA	35:BF:176:GLU:CB	2.34	0.56
36:BG:127:ARG:C	36:BG:128:PHE:CD1	2.84	0.56
36:BG:181:ASN:HD21	36:BG:206:GLU:HG2	1.70	0.56
37:BH:16:GLY:O	37:BH:17:VAL:C	2.47	0.56
37:BH:170:VAL:HG11	37:BH:174:LEU:HD12	1.88	0.56
38:BI:80:ILE:CG2	38:BI:142:LEU:HD21	2.34	0.56
40:BK:63:LYS:O	40:BK:66:VAL:HB	2.05	0.56
42:BM:15:ALA:CB	42:BM:76:ALA:HB3	2.36	0.56
42:BM:115:GLY:C	42:BM:117:HIS:H	2.13	0.56
43:BN:52:GLY:H	43:BN:59:SER:CB	2.18	0.56
45:BP:97:ARG:HB3	45:BP:98:TYR:CD1	2.41	0.56
46:BQ:14:ARG:CB	46:BQ:41:PRO:HA	2.35	0.56
47:BR:42:ILE:O	47:BR:44:LEU:N	2.39	0.56
50:BU:8:GLY:C	50:BU:56:VAL:HG13	2.29	0.56
51:BV:53:ARG:NH2	51:BV:60:GLY:N	2.50	0.56
52:BW:32:LYS:HB3	52:BW:50:ALA:HB3	1.86	0.56
53:BX:48:LYS:O	53:BX:49:ALA:C	2.48	0.56
55:CA:1:MET:O	55:CA:68:TYR:OH	2.17	0.56
55:CA:165:ALA:HB1	55:CA:171:ILE:HG21	1.79	0.56
55:CA:248:ASN:OD1	55:CA:276:ILE:HG13	2.05	0.56
55:CA:300:LEU:CB	55:CA:301:SER:HA	2.30	0.56
55:CA:305:PRO:CB	55:CA:361:ARG:HG2	2.29	0.56
55:CA:400:TYR:CD1	55:CA:444:PRO:CA	2.88	0.56
55:CA:491:ASN:CG	55:CA:536:ASN:CA	2.77	0.56
1:AA:154:G:H2'	1:AA:155:C:C6	2.41	0.56
1:AA:179:G:H5'	30:Ad:32:LYS:CE	2.36	0.56
1:AA:280:C:H41	1:AA:283:A:N6	2.02	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:565:C:O4'	1:AA:1252:G:O6	2.23	0.56
1:AA:627:A:N6	1:AA:636:G:O2'	2.39	0.56
1:AA:768:G:H2'	1:AA:769:G:H8	1.71	0.56
1:AA:811:U:C6	1:AA:811:U:C3'	2.88	0.56
1:AA:876:C:O5'	1:AA:876:C:H6	1.89	0.56
1:AA:945:A:H2'	1:AA:946:G:C5'	2.36	0.56
1:AA:958:U:O4	14:AN:19:GLY:O	2.23	0.56
1:AA:1152:C:H4'	18:AR:80:ILE:HG21	1.87	0.56
1:AA:1199:U:C6	1:AA:1199:U:OP2	2.58	0.56
1:AA:1227:A:C3'	1:AA:1228:G:H5''	2.36	0.56
1:AA:1298:C:O2'	1:AA:1302:A:C8	2.58	0.56
1:AA:1418:G:OP2	1:AA:1418:G:H8	1.89	0.56
1:AA:1424:G:C2'	1:AA:1425:G:O5'	2.53	0.56
1:AA:1439:A:C5	1:AA:1440:G:H1'	2.41	0.56
1:AA:1470:G:C8	1:AA:1470:G:C3'	2.88	0.56
1:AA:1471:A:N6	1:AA:1519:G:N2	2.48	0.56
1:AA:1563:G:H2'	1:AA:1564:C:C6	2.39	0.56
1:AA:1655:A:H3'	1:AA:1656:C:H6	1.71	0.56
1:AA:1746:G:H2'	1:AA:1747:G:H8	1.67	0.56
1:AA:1819:A:OP2	4:AD:157:ARG:NE	2.39	0.56
1:AA:1827:C:H1'	1:AA:1970:A:C2	2.40	0.56
1:AA:1920:C:O2'	1:AA:1921:G:O5'	2.22	0.56
1:AA:1992:G:C1'	1:AA:1993:U:C4	2.88	0.56
1:AA:1999:C:N3	1:AA:2000:G:C8	2.73	0.56
1:AA:2025:C:H2'	1:AA:2026:C:C5	2.37	0.56
1:AA:2074:U:O2'	1:AA:2075:U:H5'	2.06	0.56
1:AA:2208:U:C2'	1:AA:2209:C:H5'	2.35	0.56
1:AA:2215:G:P	1:AA:2215:G:H8	2.29	0.56
1:AA:2259:G:N2	1:AA:2282:G:C5	2.74	0.56
1:AA:2371:G:C2'	1:AA:2372:G:O4'	2.53	0.56
1:AA:2466:C:O2'	14:AN:123:HIS:NE2	2.35	0.56
1:AA:2576:G:OP2	1:AA:2576:G:N2	2.39	0.56
1:AA:2585:U:C6	1:AA:2585:U:OP1	2.58	0.56
4:AD:55:GLY:N	4:AD:218:ARG:HD3	2.20	0.56
4:AD:64:ILE:O	4:AD:64:ILE:CG2	2.53	0.56
4:AD:69:ARG:C	4:AD:70:TRP:CG	2.83	0.56
4:AD:78:LYS:O	4:AD:95:LEU:HD22	2.06	0.56
4:AD:148:GLU:HB2	4:AD:151:LYS:HG3	1.87	0.56
5:AE:47:VAL:HA	5:AE:48:GLN:NE2	2.21	0.56
5:AE:129:HIS:H	5:AE:129:HIS:HD2	1.50	0.56
6:AF:148:LEU:N	6:AF:148:LEU:HD22	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:14:GLU:CD	7:AG:15:VAL:N	2.63	0.56
7:AG:33:ARG:HH11	7:AG:34:LEU:N	2.03	0.56
7:AG:119:GLY:HA3	7:AG:180:PHE:CG	2.40	0.56
7:AG:153:ARG:O	7:AG:155:MET:SD	2.63	0.56
10:AJ:54:PRO:O	10:AJ:70:LYS:HB3	1.97	0.56
11:AK:16:ILE:CB	11:AK:54:VAL:HG23	2.29	0.56
11:AK:33:LEU:O	11:AK:33:LEU:HD22	2.05	0.56
12:AL:18:LYS:NZ	12:AL:44:LYS:HZ3	2.03	0.56
12:AL:39:ILE:HD13	12:AL:39:ILE:H	1.67	0.56
12:AL:65:THR:HA	12:AL:77:ILE:HG13	1.87	0.56
13:AM:135:LEU:H	13:AM:135:LEU:CD1	2.18	0.56
14:AN:6:ARG:HE	14:AN:8:LYS:HG3	1.71	0.56
14:AN:6:ARG:O	14:AN:7:MET:HG2	2.06	0.56
14:AN:75:THR:HB	14:AN:77:LYS:CE	2.34	0.56
14:AN:102:VAL:HG13	14:AN:104:PHE:CE1	2.40	0.56
15:AO:35:THR:HG22	15:AO:113:LEU:HD23	1.88	0.56
15:AO:41:ALA:O	15:AO:42:LYS:C	2.48	0.56
15:AO:85:PRO:O	15:AO:87:TYR:N	2.39	0.56
15:AO:104:ARG:NH2	15:AO:107:ASP:OD2	2.38	0.56
16:AP:106:ARG:CD	16:AP:107:GLU:OE2	2.54	0.56
17:AQ:28:VAL:HG22	17:AQ:92:GLY:O	2.06	0.56
18:AR:81:HIS:O	18:AR:117:GLN:NE2	2.38	0.56
18:AR:105:VAL:HG22	18:AR:109:LEU:HD11	1.87	0.56
19:AS:6:LYS:HZ3	19:AS:10:LYS:CB	2.16	0.56
20:AT:65:LEU:O	20:AT:68:ARG:HG2	2.05	0.56
20:AT:86:LEU:HB3	20:AT:87:PRO:HD2	1.88	0.56
22:AV:2:ARG:HD2	22:AV:3:VAL:CB	2.35	0.56
23:AW:25:PRO:HG2	23:AW:85:HIS:HA	1.88	0.56
23:AW:41:LEU:HA	23:AW:44:PHE:HB2	1.87	0.56
23:AW:102:LEU:CD1	23:AW:137:ILE:HG22	2.36	0.56
23:AW:118:GLN:NE2	23:AW:119:GLU:C	2.63	0.56
25:AY:7:GLU:C	25:AY:10:LYS:HG2	2.30	0.56
26:AZ:9:VAL:CG1	26:AZ:54:VAL:HA	2.33	0.56
27:Aa:56:VAL:HB	27:Aa:61:ARG:NE	2.20	0.56
28:Ab:4:HIS:NE2	28:Ab:5:PRO:HB3	2.20	0.56
28:Ab:9:LYS:CD	28:Ab:10:LYS:H	2.19	0.56
28:Ab:44:THR:O	28:Ab:52:TYR:OH	2.18	0.56
31:Ae:5:LYS:C	31:Ae:7:HIS:N	2.64	0.56
31:Ae:23:VAL:HG13	31:Ae:24:ALA:N	2.20	0.56
34:BA:60:A:H62	34:BA:110:C:H42	1.53	0.56
34:BA:337:C:N4	34:BA:338:A:N6	2.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:454:C:H5''	34:BA:455:C:OP2	2.06	0.56
34:BA:519:C:H5''	45:BP:51:ALA:HB2	1.87	0.56
34:BA:529:G:H1	45:BP:49:ASN:CB	2.15	0.56
34:BA:607:A:C5	34:BA:608:A:C8	2.93	0.56
34:BA:714:G:H8	34:BA:714:G:O5'	1.87	0.56
34:BA:817:C:C2	34:BA:819:A:H5'	2.40	0.56
34:BA:861:G:H2'	34:BA:862:C:H6	1.69	0.56
34:BA:862:C:C2	34:BA:863:U:H5	2.24	0.56
34:BA:974:A:P	47:BR:31:ARG:HG2	2.46	0.56
34:BA:1039:C:H2'	34:BA:1040:U:H6	1.70	0.56
34:BA:1100:C:H2'	35:BF:98:LEU:HD13	1.86	0.56
34:BA:1127:G:H21	34:BA:1147:C:N4	2.04	0.56
34:BA:1405:G:C4	34:BA:1406:U:H5	2.23	0.56
34:BA:1412:C:N4	34:BA:1489:G:O6	2.38	0.56
34:BA:1431:C:N4	34:BA:1470:G:C6	2.74	0.56
34:BA:1487:G:H2'	34:BA:1488:G:H8	1.71	0.56
34:BA:1493:A:OP1	56:BA:1601:NMV:N6	2.39	0.56
35:BF:19:HIS:CE1	35:BF:204:ASN:ND2	2.73	0.56
35:BF:73:THR:O	35:BF:74:LYS:C	2.48	0.56
35:BF:101:MET:O	35:BF:103:THR:N	2.39	0.56
35:BF:102:LEU:CB	35:BF:180:LEU:CD1	2.84	0.56
35:BF:132:LYS:N	35:BF:132:LYS:HZ3	2.04	0.56
35:BF:176:GLU:O	35:BF:180:LEU:CG	2.52	0.56
36:BG:5:ILE:CG2	43:BN:51:ARG:HH12	2.16	0.56
36:BG:91:LEU:CD2	36:BG:91:LEU:C	2.79	0.56
36:BG:117:ALA:O	36:BG:118:GLN:C	2.49	0.56
36:BG:183:ASP:C	36:BG:183:ASP:OD2	2.47	0.56
37:BH:13:ARG:CB	37:BH:40:PRO:HD3	2.35	0.56
37:BH:30:LYS:HZ3	37:BH:35:ARG:HD2	1.70	0.56
37:BH:93:PHE:O	37:BH:96:LEU:N	2.39	0.56
38:BI:63:ARG:C	38:BI:66:MET:HG2	2.30	0.56
40:BK:42:ILE:O	40:BK:43:PHE:C	2.49	0.56
41:BL:7:ALA:HA	41:BL:10:LEU:CG	2.35	0.56
42:BM:4:TYR:CE1	42:BM:59:PHE:CE2	2.91	0.56
42:BM:11:LYS:H	42:BM:104:ARG:HH21	1.51	0.56
42:BM:78:LYS:HD3	42:BM:79:LEU:HD22	1.87	0.56
43:BN:27:ALA:HB2	43:BN:85:LEU:HD21	1.87	0.56
44:BO:71:LYS:HG3	44:BO:72:ALA:H	1.71	0.56
44:BO:92:GLU:OE2	44:BO:96:ARG:HB2	2.05	0.56
47:BR:48:ALA:HA	47:BR:53:LEU:HD12	1.88	0.56
49:BT:3:LYS:C	49:BT:4:ILE:HD13	2.30	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:12:LYS:HZ2	49:BT:13:HIS:CE1	2.23	0.56
50:BU:10:VAL:CG2	50:BU:55:ASP:O	2.49	0.56
50:BU:51:TYR:O	50:BU:52:LYS:HG3	2.06	0.56
50:BU:66:SER:HB3	50:BU:69:LYS:HZ3	1.67	0.56
55:CA:200:ASP:CG	55:CA:228:ARG:CD	2.59	0.56
55:CA:318:PHE:CA	55:CA:321:LYS:HE3	2.36	0.56
1:AA:6:A:C2	1:AA:2897:U:N3	2.63	0.56
1:AA:27:G:N2	1:AA:512:G:C2'	2.69	0.56
1:AA:67:U:O5'	1:AA:67:U:H6	1.89	0.56
1:AA:92:G:H2'	1:AA:93:C:C6	2.40	0.56
1:AA:513:A:C2	1:AA:514:A:H8	2.24	0.56
1:AA:516:C:H2'	1:AA:517:C:H6	1.69	0.56
1:AA:729:G:H2'	1:AA:730:C:C3'	2.36	0.56
1:AA:764:A:C6	1:AA:1789:A:H2	2.24	0.56
1:AA:780:G:N3	1:AA:785:G:O6	2.38	0.56
1:AA:821:A:H8	1:AA:946:G:C5	2.22	0.56
1:AA:828:U:C2'	1:AA:829:A:C8	2.74	0.56
1:AA:842:G:C6	1:AA:843:G:C6	2.94	0.56
1:AA:847:U:O4	1:AA:933:A:C2	2.59	0.56
1:AA:885:C:H42	1:AA:890:A:C5'	2.18	0.56
1:AA:972:G:C6	1:AA:973:A:N7	2.74	0.56
1:AA:1105:U:N3	1:AA:1107:G:N1	2.54	0.56
1:AA:1257:C:C4	1:AA:1258:C:N4	2.74	0.56
1:AA:1366:A:N1	1:AA:1367:A:N3	2.54	0.56
1:AA:1464:C:C5'	1:AA:1528:A:O2'	2.50	0.56
1:AA:1477:A:H3'	1:AA:1478:G:O4'	2.04	0.56
1:AA:1482:U:H2'	1:AA:1483:G:H4'	1.86	0.56
1:AA:1754:C:C5	17:AQ:98:LYS:NZ	2.74	0.56
1:AA:1762:A:C5'	1:AA:1763:G:OP2	2.53	0.56
1:AA:1784:A:HO2'	1:AA:1785:A:H8	1.54	0.56
1:AA:2022:U:O2	1:AA:2022:U:C2'	2.53	0.56
1:AA:2052:G:C5	1:AA:2053:G:N7	2.74	0.56
1:AA:2127:G:C5'	3:AC:36:LYS:HG2	2.33	0.56
1:AA:2180:U:H2'	1:AA:2181:G:H8	1.70	0.56
1:AA:2284:C:C5'	29:Ac:9:LEU:HG	2.36	0.56
1:AA:2306:C:OP1	7:AG:136:ARG:CD	2.53	0.56
1:AA:2315:G:H4'	7:AG:130:ASN:OD1	2.06	0.56
1:AA:2421:G:C2'	1:AA:2422:A:H8	1.96	0.56
1:AA:2428:G:C4'	1:AA:2429:G:O5'	2.54	0.56
1:AA:2670:A:C6	1:AA:2671:A:C5	2.93	0.56
1:AA:2747:G:N2	1:AA:2748:A:N6	2.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2765:A:O2'	1:AA:2766:G:OP1	2.19	0.56
1:AA:2785:C:C4	1:AA:2786:U:O4	2.59	0.56
2:AB:68:C:H2'	2:AB:69:G:C1'	2.36	0.56
3:AC:93:TYR:CZ	3:AC:109:ASP:HB3	2.41	0.56
3:AC:97:GLU:CG	3:AC:122:ALA:HB3	2.30	0.56
5:AE:13:ARG:HE	5:AE:21:VAL:CA	2.18	0.56
5:AE:119:ARG:CZ	5:AE:155:LYS:CB	2.81	0.56
6:AF:137:LYS:HA	6:AF:137:LYS:HZ3	1.71	0.56
7:AG:53:LEU:CD2	7:AG:71:THR:H	2.08	0.56
7:AG:122:PRO:O	7:AG:123:ASN:C	2.48	0.56
7:AG:162:THR:O	7:AG:162:THR:HG22	2.06	0.56
9:AI:49:ALA:C	9:AI:51:LEU:H	2.14	0.56
9:AI:52:PHE:C	9:AI:86:PRO:CA	2.78	0.56
9:AI:54:ALA:HB1	9:AI:83:TYR:CB	2.36	0.56
11:AK:2:LYS:O	11:AK:3:THR:O	2.23	0.56
11:AK:13:TRP:C	11:AK:14:VAL:CG2	2.79	0.56
12:AL:39:ILE:CA	12:AL:59:LYS:HZ1	2.17	0.56
13:AM:93:GLY:O	13:AM:102:ARG:NH1	2.39	0.56
14:AN:48:GLU:O	14:AN:51:ARG:CG	2.37	0.56
14:AN:77:LYS:HA	14:AN:89:ASN:HB2	1.88	0.56
16:AP:19:LYS:HD3	16:AP:19:LYS:C	2.30	0.56
16:AP:26:LEU:HD21	16:AP:37:ALA:C	2.30	0.56
16:AP:33:LYS:HE2	16:AP:54:LEU:CD2	2.35	0.56
16:AP:93:LYS:O	16:AP:98:VAL:HG13	2.06	0.56
17:AQ:32:TYR:CD2	17:AQ:88:ILE:HA	2.40	0.56
17:AQ:92:GLY:C	17:AQ:93:ARG:NE	2.63	0.56
18:AR:63:VAL:O	18:AR:65:ILE:N	2.38	0.56
19:AS:12:TYR:HE1	19:AS:14:VAL:HB	1.69	0.56
19:AS:40:LEU:HA	19:AS:54:GLY:CA	2.27	0.56
20:AT:29:LEU:O	20:AT:33:ARG:CB	2.44	0.56
22:AV:29:GLU:OE1	22:AV:34:LYS:HB2	2.05	0.56
23:AW:53:ILE:CG1	23:AW:58:VAL:HG21	2.31	0.56
23:AW:110:GLY:HA2	23:AW:144:LEU:O	2.06	0.56
23:AW:144:LEU:C	23:AW:174:VAL:HG11	2.30	0.56
24:AX:31:VAL:HG22	24:AX:67:VAL:N	2.21	0.56
25:AY:42:ASN:O	25:AY:45:ILE:HG23	2.05	0.56
34:BA:32:A:H2'	34:BA:33:A:C8	2.41	0.56
34:BA:155:C:C2	34:BA:167:G:C2	2.94	0.56
34:BA:191:G:C1'	53:BX:105:SER:HA	2.25	0.56
34:BA:225:C:C2'	34:BA:226:G:C5'	2.79	0.56
34:BA:432:A:N7	34:BA:433:C:C6	2.74	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:517:G:H5''	34:BA:518:C:OP1	2.05	0.56
34:BA:686:U:OP1	34:BA:686:U:H4'	2.06	0.56
34:BA:872:A:C6	34:BA:874:G:N7	2.73	0.56
34:BA:890:G:C2'	34:BA:891:U:OP2	2.53	0.56
34:BA:949:A:C3'	46:BQ:102:ARG:HH11	2.07	0.56
34:BA:949:A:C1'	34:BA:1364:U:H3	2.18	0.56
34:BA:977:A:H4'	34:BA:982:U:O4	2.06	0.56
34:BA:1104:G:O2'	35:BF:111:ARG:NH2	2.38	0.56
34:BA:1106:G:C4	34:BA:1107:C:C5	2.93	0.56
34:BA:1158:C:C3'	35:BF:133:LYS:HZ2	2.13	0.56
34:BA:1265:G:C2'	34:BA:1266:G:H5'	2.35	0.56
34:BA:1268:A:H4'	54:BY:20:LYS:HB2	1.86	0.56
34:BA:1409:C:O2'	34:BA:1410:G:H5'	2.06	0.56
34:BA:1494:G:C5	56:BA:1601:NMY:H82	2.40	0.56
34:BA:1496:C:H2'	34:BA:1497:G:H8	1.71	0.56
34:BA:1537:U:C2	34:BA:1538:C:C6	2.94	0.56
36:BG:122:GLU:O	36:BG:125:GLU:CB	2.53	0.56
37:BH:151:LYS:HD2	37:BH:151:LYS:N	2.20	0.56
37:BH:152:SER:HA	37:BH:155:LEU:HD21	1.88	0.56
37:BH:170:VAL:HG11	37:BH:174:LEU:CB	2.34	0.56
38:BI:151:LEU:HD21	41:BL:67:PRO:CG	2.34	0.56
39:BJ:14:LEU:CD1	39:BJ:19:LEU:N	2.66	0.56
42:BM:37:PHE:CE1	42:BM:74:ILE:HG12	2.41	0.56
42:BM:47:LEU:HD21	42:BM:50:LEU:HD13	1.86	0.56
42:BM:96:LEU:HD12	42:BM:101:PHE:HE1	1.70	0.56
43:BN:6:ILE:HD11	43:BN:73:ASP:H	1.70	0.56
44:BO:44:SER:N	44:BO:47:VAL:HG21	2.21	0.56
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:CD2	2.88	0.56
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:HD13	2.40	0.56
47:BR:18:VAL:HG23	47:BR:19:ARG:HG3	1.86	0.56
49:BT:67:THR:HB	49:BT:70:ALA:CB	2.36	0.56
53:BX:62:LEU:HD23	53:BX:65:LYS:HG3	1.87	0.56
55:CA:11:ILE:HG22	55:CA:12:ALA:N	2.20	0.56
55:CA:57:LEU:CB	55:CA:254:VAL:C	2.78	0.56
55:CA:57:LEU:HD23	55:CA:71:ASN:OD1	2.05	0.56
55:CA:97:LEU:O	55:CA:126:VAL:N	2.36	0.56
55:CA:222:GLY:O	55:CA:223:ILE:HB	2.04	0.56
55:CA:397:GLN:HB3	55:CA:472:TYR:CA	2.32	0.56
1:AA:18:C:H4'	18:AR:23:GLY:O	2.06	0.56
1:AA:27:G:C2	1:AA:512:G:H2'	2.41	0.56
1:AA:140:A:H2	1:AA:1408:C:O2	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:197:A:C2	1:AA:198:C:H1'	2.39	0.56
1:AA:513:A:N1	1:AA:514:A:N7	2.54	0.56
1:AA:582:G:C6	1:AA:1259:G:C6	2.94	0.56
1:AA:602:G:O5'	1:AA:602:G:C8	2.54	0.56
1:AA:723:G:H21	1:AA:724:U:H1'	1.67	0.56
1:AA:774:A:O2'	1:AA:775:G:P	2.63	0.56
1:AA:893:C:C2	1:AA:894:C:C6	2.94	0.56
1:AA:922:U:H2'	1:AA:923:C:C6	2.41	0.56
1:AA:949:C:C2	1:AA:950:G:N7	2.74	0.56
1:AA:972:G:C5	1:AA:973:A:C8	2.94	0.56
1:AA:1015:G:O2'	1:AA:1016:G:H5'	2.06	0.56
1:AA:1027:A:H2'	1:AA:1028:A:C8	2.41	0.56
1:AA:1038:C:C4'	1:AA:1039:G:OP1	2.53	0.56
1:AA:1050:A:C4	1:AA:2751:G:H3'	2.39	0.56
1:AA:1051:G:C6	1:AA:2751:G:N1	2.67	0.56
1:AA:1124:C:H3'	1:AA:1125:G:C8	2.39	0.56
1:AA:1520:U:OP2	1:AA:1520:U:C5	2.59	0.56
1:AA:1558:A:H2	1:AA:1560:G:C8	2.24	0.56
1:AA:1645:G:H5''	1:AA:1646:C:H5'	1.86	0.56
1:AA:1658:C:OP1	5:AE:134:ILE:CB	2.51	0.56
1:AA:1675:C:N4	5:AE:128:SER:CB	2.69	0.56
1:AA:1782:C:H6	1:AA:1782:C:H3'	1.70	0.56
1:AA:1790:C:O2'	4:AD:213:ARG:CZ	2.54	0.56
1:AA:2067:G:C6	1:AA:2069:G:C5	2.94	0.56
1:AA:2128:C:H5''	3:AC:218:MET:CE	2.28	0.56
1:AA:2210:G:O2'	1:AA:2211:G:P	2.63	0.56
1:AA:2283:C:N3	1:AA:2389:G:N2	2.53	0.56
1:AA:2387:U:C1'	24:AX:41:ARG:CZ	2.83	0.56
1:AA:2472:G:O5'	1:AA:2472:G:C8	2.57	0.56
1:AA:2478:A:O4'	32:Af:31:LYS:NZ	2.39	0.56
1:AA:2512:C:OP1	5:AE:120:TRP:HH2	1.89	0.56
1:AA:2517:C:C5	1:AA:2542:A:N7	2.73	0.56
1:AA:2523:G:H1'	1:AA:2765:A:N6	2.21	0.56
1:AA:2661:G:H5'	55:CA:14:VAL:CG2	2.36	0.56
1:AA:2725:A:O2'	1:AA:2726:U:H6	1.88	0.56
1:AA:2740:A:C6	1:AA:2741:A:N6	2.74	0.56
1:AA:2792:G:H1	1:AA:2803:C:N4	1.89	0.56
1:AA:2886:G:O2'	28:Ab:31:VAL:CB	2.51	0.56
2:AB:9:G:C2	2:AB:10:C:C4	2.94	0.56
3:AC:4:GLY:O	3:AC:5:LYS:HG3	2.06	0.56
3:AC:20:TYR:CE1	3:AC:222:VAL:CG2	2.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:161:ILE:HG22	3:AC:174:PRO:HG2	1.87	0.56
4:AD:105:ILE:HD11	4:AD:106:ILE:HD13	1.88	0.56
4:AD:118:VAL:N	4:AD:129:ASN:ND2	2.51	0.56
5:AE:55:ASN:C	5:AE:57:LYS:N	2.61	0.56
5:AE:94:GLU:O	5:AE:96:PHE:N	2.39	0.56
5:AE:102:VAL:HG22	5:AE:104:VAL:HG23	1.88	0.56
7:AG:8:LYS:HB2	7:AG:104:GLU:HB2	1.87	0.56
7:AG:76:SER:O	7:AG:82:LEU:O	2.24	0.56
8:AH:6:ARG:HD3	8:AH:69:ARG:HD3	1.87	0.56
8:AH:6:ARG:O	8:AH:69:ARG:HD2	2.06	0.56
8:AH:149:ARG:CZ	8:AH:164:TYR:CD1	2.82	0.56
11:AK:15:LEU:CD1	11:AK:137:LYS:HB3	2.35	0.56
11:AK:126:PRO:O	11:AK:127:ASP:CB	2.53	0.56
12:AL:76:ALA:HB1	12:AL:78:ARG:HH22	1.70	0.56
13:AM:49:ARG:NH1	13:AM:49:ARG:HG2	2.20	0.56
13:AM:81:GLN:HA	13:AM:86:LYS:CG	2.36	0.56
13:AM:122:PRO:HG3	13:AM:138:LEU:N	2.20	0.56
14:AN:98:LYS:N	14:AN:98:LYS:HE3	2.21	0.56
14:AN:109:VAL:HG11	14:AN:114:ALA:N	2.20	0.56
15:AO:17:ARG:NH1	15:AO:17:ARG:CB	2.69	0.56
16:AP:52:SER:CB	16:AP:69:VAL:HG13	2.35	0.56
17:AQ:17:THR:HG21	17:AQ:20:PRO:HG3	1.88	0.56
19:AS:41:GLY:N	19:AS:51:VAL:HG22	2.20	0.56
19:AS:73:SER:OG	19:AS:89:GLN:NE2	2.39	0.56
21:AU:24:GLY:O	21:AU:82:GLN:HG3	2.06	0.56
22:AV:14:LEU:HD13	22:AV:20:TYR:O	2.06	0.56
23:AW:6:LYS:CA	23:AW:37:VAL:HG13	2.36	0.56
23:AW:44:PHE:HD2	23:AW:48:PHE:HE2	1.52	0.56
24:AX:21:LEU:CD1	24:AX:41:ARG:HG2	2.35	0.56
27:Aa:29:PRO:O	27:Aa:31:ILE:HG23	2.06	0.56
30:Ad:32:LYS:HA	30:Ad:35:ARG:HD3	1.88	0.56
31:Ae:23:VAL:HG11	31:Ae:46:ARG:HB3	1.87	0.56
33:Ag:289:UNK:C	33:Ag:343:UNK:CB	2.83	0.56
34:BA:8:A:C4'	38:BI:102:ALA:HA	2.36	0.56
34:BA:19:C:N3	34:BA:20:U:C5	2.73	0.56
34:BA:49:U:N1	34:BA:364:A:N6	2.54	0.56
34:BA:124:G:C2'	34:BA:125:U:O4'	2.54	0.56
34:BA:182:U:H2'	34:BA:182:U:O2	2.06	0.56
34:BA:263:A:C5'	53:BX:75:ASN:HD21	2.19	0.56
34:BA:301:G:N2	34:BA:302:G:N9	2.53	0.56
34:BA:324:G:N2	34:BA:327:A:OP2	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:409:G:C5'	37:BH:24:GLU:OE1	2.54	0.56
34:BA:483:C:O5'	34:BA:483:C:H6	1.88	0.56
34:BA:758:G:C2'	34:BA:759:A:OP2	2.54	0.56
34:BA:893:C:C2	34:BA:894:G:C8	2.94	0.56
34:BA:1125:U:OP2	34:BA:1126:U:O4	2.24	0.56
34:BA:1219:U:O3'	52:BW:34:TRP:CE2	2.33	0.56
34:BA:1251:A:C2'	34:BA:1252:A:C8	2.88	0.56
34:BA:1461:G:C4	34:BA:1462:G:N7	2.74	0.56
35:BF:54:THR:HG23	35:BF:199:TYR:CB	2.36	0.56
35:BF:84:GLU:OE2	35:BF:84:GLU:HA	2.06	0.56
35:BF:97:TRP:HE1	35:BF:101:MET:CE	2.18	0.56
35:BF:163:PHE:CA	35:BF:185:ILE:O	2.47	0.56
36:BG:5:ILE:HD12	36:BG:5:ILE:N	2.21	0.56
36:BG:47:LEU:HD11	36:BG:83:ARG:HH21	1.67	0.56
37:BH:15:GLU:HB3	37:BH:19:LEU:HD11	1.88	0.56
37:BH:21:LEU:CD1	37:BH:67:ILE:HG22	2.34	0.56
37:BH:34:GLU:O	37:BH:35:ARG:CB	2.54	0.56
37:BH:78:LEU:O	37:BH:81:GLU:N	2.39	0.56
38:BI:109:ILE:HD11	38:BI:139:LEU:CD1	2.35	0.56
39:BJ:60:PHE:HE2	51:BV:78:LEU:HD21	1.68	0.56
39:BJ:100:ASN:O	51:BV:28:GLU:N	2.39	0.56
41:BL:85:ARG:NH1	41:BL:85:ARG:CG	2.66	0.56
41:BL:97:VAL:HG13	41:BL:98:LYS:HZ2	1.70	0.56
43:BN:32:ALA:HB2	43:BN:75:ILE:O	2.05	0.56
44:BO:83:ILE:HD12	44:BO:83:ILE:N	2.21	0.56
46:BQ:52:GLU:HA	46:BQ:55:ARG:CD	2.36	0.56
48:BS:31:LEU:HD12	48:BS:31:LEU:N	2.21	0.56
51:BV:41:LYS:O	51:BV:43:PHE:N	2.36	0.56
55:CA:58:ALA:H	55:CA:255:LEU:HA	1.71	0.56
55:CA:64:ILE:HD11	55:CA:187:TYR:C	2.29	0.56
55:CA:164:TYR:CD2	55:CA:176:HIS:NE2	2.74	0.56
55:CA:226:ILE:CG2	55:CA:267:LEU:HA	2.36	0.56
55:CA:227:LYS:CA	55:CA:267:LEU:CD1	2.81	0.56
55:CA:392:ILE:HD12	55:CA:392:ILE:O	2.06	0.56
1:AA:64:A:H5''	21:AU:73:ARG:HA	1.86	0.56
1:AA:410:G:H8	1:AA:410:G:O5'	1.89	0.56
1:AA:687:C:C5'	30:Ad:4:THR:HB	2.22	0.56
1:AA:730:C:H2'	1:AA:730:C:O2	2.06	0.56
1:AA:803:U:O2'	1:AA:804:A:H5'	2.05	0.56
1:AA:808:G:H2'	1:AA:809:G:H8	1.70	0.56
1:AA:827:U:H4'	1:AA:828:U:H3	1.70	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:896:A:N3	1:AA:896:A:H2'	2.20	0.56
1:AA:977:G:C5	1:AA:987:G:C2	2.94	0.56
1:AA:1024:G:C2	1:AA:1139:G:N2	2.74	0.56
1:AA:1037:G:N1	1:AA:1119:C:C4	2.74	0.56
1:AA:1163:G:C6	1:AA:1164:G:N7	2.74	0.56
1:AA:1176:G:C2'	1:AA:1177:A:H5'	2.34	0.56
1:AA:1247:A:O2'	1:AA:1248:G:P	2.63	0.56
1:AA:1256:G:C4	1:AA:1257:C:C5	2.94	0.56
1:AA:1286:A:C2	1:AA:1329:U:C2	2.94	0.56
1:AA:1304:C:OP1	1:AA:1642:G:O2'	2.23	0.56
1:AA:1315:C:C2	1:AA:1316:U:C5	2.93	0.56
1:AA:1351:C:O2'	1:AA:1571:A:C8	2.59	0.56
1:AA:1475:G:C2	1:AA:1477:A:N6	2.58	0.56
1:AA:1522:G:C8	1:AA:1522:G:H3'	2.41	0.56
1:AA:1670:C:C6	1:AA:1671:U:C5	2.94	0.56
1:AA:1688:U:C2'	1:AA:1689:A:OP2	2.54	0.56
1:AA:1749:A:O2'	1:AA:1750:G:H5'	2.05	0.56
1:AA:1780:A:P	1:AA:1782:C:OP1	2.64	0.56
1:AA:1785:A:O5'	1:AA:1982:C:C4'	2.52	0.56
1:AA:1971:A:N3	4:AD:239:ARG:HA	2.20	0.56
1:AA:1982:C:N4	1:AA:1983:C:N4	2.53	0.56
1:AA:2003:G:N1	1:AA:2004:G:C2	2.74	0.56
1:AA:2020:A:OP2	18:AR:27:LEU:HD22	2.06	0.56
1:AA:2026:C:C2'	1:AA:2027:G:H5'	2.35	0.56
1:AA:2048:G:C2	1:AA:2049:G:C4	2.94	0.56
1:AA:2139:C:H2'	1:AA:2140:C:H6	1.70	0.56
1:AA:2168:G:C2	1:AA:2170:A:H3'	2.40	0.56
1:AA:2253:G:H2'	1:AA:2254:C:C6	2.37	0.56
1:AA:2273:A:H8	1:AA:2274:A:O4'	1.89	0.56
1:AA:2277:G:H5''	24:AX:12:ASN:HD21	1.70	0.56
1:AA:2277:G:N7	24:AX:14:ARG:HG3	2.21	0.56
1:AA:2289:G:O2'	1:AA:2383:G:H1'	2.05	0.56
1:AA:2533:A:H4'	1:AA:2664:G:O3'	2.06	0.56
1:AA:2580:U:OP2	1:AA:2580:U:H6	1.86	0.56
1:AA:2675:A:C4'	12:AL:29:ASN:OD1	2.47	0.56
2:AB:4:C:N3	2:AB:117:G:C2	2.74	0.56
2:AB:57:A:O4'	7:AG:29:TRP:CH2	2.59	0.56
2:AB:73:A:HO2'	2:AB:74:U:C5'	2.19	0.56
3:AC:87:GLU:OE2	3:AC:94:VAL:HG11	2.06	0.56
3:AC:211:SER:HB2	3:AC:213:TYR:CE1	2.40	0.56
4:AD:77:ALA:HB1	4:AD:95:LEU:CG	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:172:TYR:HD1	4:AD:186:HIS:N	2.03	0.56
5:AE:49:LEU:HD13	5:AE:50:GLY:H	1.71	0.56
5:AE:147:PRO:CG	5:AE:149:ARG:CD	2.77	0.56
5:AE:149:ARG:HH21	5:AE:151:TYR:HA	1.71	0.56
6:AF:196:LEU:HD22	6:AF:199:TRP:NE1	2.21	0.56
7:AG:36:LYS:NZ	7:AG:160:VAL:HG23	2.20	0.56
7:AG:54:GLU:OE2	7:AG:70:VAL:HG22	2.06	0.56
8:AH:103:LEU:N	8:AH:115:VAL:HG12	2.21	0.56
8:AH:122:THR:HB	8:AH:134:SER:HG	1.71	0.56
9:AI:19:ARG:C	9:AI:21:GLN:H	2.13	0.56
9:AI:117:LEU:HA	9:AI:121:ASP:O	2.06	0.56
11:AK:38:HIS:O	18:AR:71:GLN:NE2	2.39	0.56
11:AK:67:LEU:HA	11:AK:70:LYS:NZ	2.21	0.56
11:AK:87:LEU:HA	11:AK:90:MET:CB	2.36	0.56
11:AK:99:LEU:HG	11:AK:100:GLU:H	1.71	0.56
11:AK:126:PRO:C	11:AK:127:ASP:CG	2.72	0.56
12:AL:34:THR:O	12:AL:61:VAL:HG21	2.05	0.56
12:AL:59:LYS:HE2	12:AL:59:LYS:C	2.31	0.56
12:AL:64:ARG:NH2	12:AL:66:LYS:H	2.04	0.56
12:AL:117:LEU:C	12:AL:117:LEU:CD2	2.72	0.56
14:AN:19:GLY:O	14:AN:20:ALA:HB3	2.06	0.56
14:AN:63:LYS:HD2	14:AN:64:ILE:O	2.06	0.56
14:AN:93:TYR:N	14:AN:93:TYR:CD1	2.73	0.56
14:AN:109:VAL:CG1	14:AN:110:THR:N	2.67	0.56
15:AO:17:ARG:HB2	15:AO:17:ARG:NH1	2.21	0.56
18:AR:25:TRP:O	18:AR:26:GLY:C	2.49	0.56
18:AR:45:TYR:O	18:AR:49:HIS:ND1	2.39	0.56
18:AR:59:ARG:O	18:AR:60:LEU:C	2.47	0.56
23:AW:29:TYR:CD1	23:AW:72:ARG:NH1	2.74	0.56
24:AX:12:ASN:O	24:AX:14:ARG:HG2	2.05	0.56
24:AX:27:GLU:OE1	24:AX:28:GLY:N	2.39	0.56
33:Ag:7:UNK:CB	33:Ag:145:UNK:N	2.68	0.56
34:BA:41:G:C4	34:BA:42:G:C8	2.94	0.56
34:BA:164:U:H2'	34:BA:165:C:C6	2.39	0.56
34:BA:225:C:H2'	34:BA:226:G:O5'	2.05	0.56
34:BA:230:G:H4'	49:BT:25:ARG:NH1	2.20	0.56
34:BA:373:A:C6	34:BA:482:A:N6	2.74	0.56
34:BA:376:G:OP1	49:BT:5:ARG:HB2	2.05	0.56
34:BA:440:A:C3'	34:BA:442:C:H6	2.18	0.56
34:BA:465:A:N7	34:BA:467:G:N1	2.53	0.56
34:BA:465:A:H5'	34:BA:466:C:OP2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:562:C:O2'	45:BP:15:ARG:CB	2.53	0.56
34:BA:574:A:H8	34:BA:574:A:O5'	1.89	0.56
34:BA:706:A:H4'	44:BO:29:ILE:HD13	1.88	0.56
34:BA:859:A:C2'	34:BA:860:A:C5'	2.84	0.56
34:BA:878:G:O4'	41:BL:3:THR:HG21	2.06	0.56
34:BA:978:A:N1	34:BA:1318:A:C6	2.74	0.56
34:BA:1004:A:H5''	34:BA:1025:U:C5	2.41	0.56
34:BA:1060:C:H4'	43:BN:52:GLY:HA2	1.87	0.56
34:BA:1222:G:OP2	34:BA:1322:C:H5	1.89	0.56
34:BA:1269:A:C1'	34:BA:1312:G:C2	2.86	0.56
34:BA:1300:G:O2'	34:BA:1301:U:O5'	2.24	0.56
34:BA:1468:A:H2'	34:BA:1469:G:O5'	2.05	0.56
35:BF:52:GLU:OE1	35:BF:53:ARG:HB2	2.06	0.56
35:BF:69:LEU:HD22	35:BF:91:PRO:CB	2.36	0.56
35:BF:173:ALA:CA	35:BF:176:GLU:HB2	2.34	0.56
36:BG:8:ILE:HD11	36:BG:16:ARG:HD2	1.88	0.56
36:BG:150:LYS:NZ	36:BG:152:ILE:CG2	2.69	0.56
37:BH:118:ARG:HH21	37:BH:136:PRO:HB2	1.70	0.56
38:BI:70:PRO:O	38:BI:76:ILE:HG12	2.06	0.56
39:BJ:50:TYR:CZ	39:BJ:52:ILE:HD11	2.40	0.56
39:BJ:55:ASP:OD2	39:BJ:86:ARG:NH1	2.39	0.56
40:BK:57:GLU:O	40:BK:61:VAL:HG23	2.06	0.56
40:BK:116:ALA:O	40:BK:120:ILE:HG13	2.05	0.56
40:BK:149:ARG:O	40:BK:150:ALA:C	2.45	0.56
42:BM:100:GLY:C	42:BM:101:PHE:CD1	2.84	0.56
43:BN:47:PHE:CE2	47:BR:37:PHE:HZ	2.24	0.56
44:BO:85:ARG:NH2	44:BO:111:ASP:OD2	2.39	0.56
44:BO:126:ARG:C	44:BO:128:ALA:N	2.62	0.56
45:BP:100:ILE:HD13	45:BP:100:ILE:H	1.71	0.56
46:BQ:6:GLY:O	46:BQ:7:VAL:HG22	2.06	0.56
49:BT:18:ARG:HH11	49:BT:20:VAL:HG21	1.71	0.56
49:BT:20:VAL:HG12	49:BT:21:VAL:N	2.21	0.56
50:BU:86:GLU:O	50:BU:89:LEU:HB2	2.06	0.56
53:BX:23:ARG:O	53:BX:24:LEU:C	2.47	0.56
53:BX:50:GLU:OE1	53:BX:100:ILE:HG12	2.05	0.56
55:CA:18:LYS:HB2	57:CA:701:GCP:O1B	2.03	0.56
55:CA:173:GLY:HA3	55:CA:174:LEU:HB3	1.87	0.56
55:CA:214:TYR:CD1	55:CA:215:ASN:N	2.73	0.56
55:CA:496:ALA:HB2	55:CA:516:ALA:HB3	1.88	0.56
1:AA:64:A:C2	21:AU:66:LEU:HB2	2.41	0.56
1:AA:140:A:N6	1:AA:1596:A:H4'	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:141:A:H2	1:AA:1597:A:H5'	1.71	0.56
1:AA:143:C:H2'	1:AA:144:C:H6	1.71	0.56
1:AA:223:A:O2'	1:AA:420:C:H1'	2.06	0.56
1:AA:270(W):G:C4	1:AA:270(X):G:C8	2.94	0.56
1:AA:307:G:O2'	1:AA:309:G:N7	2.35	0.56
1:AA:344:G:H5''	1:AA:345:A:OP2	2.06	0.56
1:AA:530:G:H22	1:AA:2021:C:C2'	2.18	0.56
1:AA:535:C:C4'	18:AR:53:ARG:HD2	2.27	0.56
1:AA:545:G:H1'	1:AA:549:G:C2	2.41	0.56
1:AA:547:A:O2'	1:AA:548:A:H5'	2.06	0.56
1:AA:630:G:H5''	31:Ae:46:ARG:CZ	2.36	0.56
1:AA:687:C:O2	1:AA:788:A:P	2.63	0.56
1:AA:819:A:C8	1:AA:973:A:C2	2.94	0.56
1:AA:840:C:H4'	1:AA:1192:G:O2'	2.07	0.56
1:AA:882:G:N1	1:AA:894:C:H1'	2.21	0.56
1:AA:1028:A:N6	1:AA:1126:A:C8	2.73	0.56
1:AA:1054:A:H8	1:AA:1054:A:O5'	1.88	0.56
1:AA:1269:A:C8	1:AA:1269:A:O5'	2.59	0.56
1:AA:1447:G:H1'	1:AA:1545(A):A:C1'	2.36	0.56
1:AA:1451:C:H5''	1:AA:1453:A:O2'	2.05	0.56
1:AA:1477:A:C2	1:AA:1516:U:C2	2.94	0.56
1:AA:1526:G:N2	1:AA:1546:C:N3	2.54	0.56
1:AA:1528:A:H5'	1:AA:1529:A:OP2	2.06	0.56
1:AA:1635:G:C2'	1:AA:1636:C:H5'	2.36	0.56
1:AA:1699:G:O2'	1:AA:1700:A:P	2.63	0.56
1:AA:1826:G:N2	1:AA:1970:A:C2	2.73	0.56
1:AA:1901:A:H4'	4:AD:244:ARG:NH1	2.17	0.56
1:AA:1936:A:H1'	1:AA:1940:U:C4	2.39	0.56
1:AA:1964:G:C8	1:AA:1964:G:OP1	2.59	0.56
1:AA:1993:U:C6	1:AA:1993:U:H3'	2.41	0.56
1:AA:2091:U:C3'	1:AA:2092:U:H5'	2.36	0.56
1:AA:2313:C:H2'	1:AA:2314:C:C6	2.41	0.56
1:AA:2416:C:O5'	1:AA:2416:C:C6	2.58	0.56
1:AA:2441:C:H2'	1:AA:2442:C:H6	1.71	0.56
1:AA:2457:U:O2'	1:AA:2458:G:H5'	2.06	0.56
1:AA:2463:C:H2'	1:AA:2464:C:C5'	2.36	0.56
1:AA:2501:C:H5''	1:AA:2502:G:H5''	1.88	0.56
1:AA:2532:G:C4'	1:AA:2657:A:C6	2.86	0.56
1:AA:2558:C:H2'	1:AA:2558:C:O2	2.06	0.56
1:AA:2665:A:H2'	1:AA:2666:C:C2	2.41	0.56
1:AA:2718:G:C4	1:AA:2719:G:C8	2.94	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2730:C:H4'	5:AE:169:ASN:O	2.06	0.56
1:AA:2753:A:H2'	1:AA:2754:U:O5'	2.06	0.56
1:AA:2781:A:H8	1:AA:2781:A:H5'	1.70	0.56
1:AA:2877:G:C2	1:AA:2878:U:C2	2.94	0.56
2:AB:29:A:O2'	2:AB:58:A:N1	2.38	0.56
2:AB:51:G:OP1	16:AP:60:GLY:O	2.25	0.56
2:AB:116:G:C6	2:AB:117:G:C4	2.93	0.56
3:AC:22:ILE:HG23	3:AC:189:ILE:HG21	1.88	0.56
4:AD:5:LYS:O	4:AD:27:THR:CG2	2.54	0.56
4:AD:8:PRO:HD2	4:AD:26:LYS:H	1.71	0.56
5:AE:41:LYS:O	5:AE:44:TYR:N	2.39	0.56
5:AE:49:LEU:CD2	5:AE:75:VAL:C	2.79	0.56
6:AF:9:ILE:HG21	6:AF:124:LEU:O	2.06	0.56
6:AF:37:VAL:HA	6:AF:184:TYR:CE1	2.41	0.56
6:AF:120:GLU:OE1	6:AF:120:GLU:CA	2.54	0.56
6:AF:201:VAL:HG12	6:AF:205:ARG:CZ	2.36	0.56
7:AG:110:ALA:CB	7:AG:139:LEU:HG	2.31	0.56
8:AH:98:LEU:C	8:AH:100:GLY:H	2.12	0.56
10:AJ:52:ILE:HD13	10:AJ:73:PRO:HG2	1.87	0.56
11:AK:10:GLU:O	11:AK:12:ARG:NH2	2.38	0.56
12:AL:24:VAL:HG21	12:AL:30:ALA:HA	1.87	0.56
13:AM:124:LYS:HA	13:AM:138:LEU:HD23	1.87	0.56
14:AN:6:ARG:NE	14:AN:8:LYS:HG3	2.21	0.56
16:AP:26:LEU:H	16:AP:88:ASP:HB2	1.71	0.56
16:AP:74:ALA:HB1	16:AP:108:GLY:HA2	1.80	0.56
16:AP:76:LYS:O	16:AP:80:LEU:CB	2.48	0.56
16:AP:88:ASP:CG	16:AP:89:ARG:N	2.62	0.56
17:AQ:76:PHE:CZ	17:AQ:78:LEU:HG	2.41	0.56
19:AS:3:ALA:HB1	19:AS:44:LYS:NZ	2.21	0.56
20:AT:88:ARG:O	20:AT:89:ALA:HB3	2.04	0.56
21:AU:26:TYR:CB	21:AU:28:PHE:CZ	2.88	0.56
21:AU:39:ILE:O	21:AU:43:VAL:HG23	2.06	0.56
22:AV:75:ILE:N	22:AV:100:ALA:HB1	2.18	0.56
22:AV:81:LYS:HD3	22:AV:96:ILE:CG1	2.36	0.56
23:AW:51:ALA:HA	23:AW:53:ILE:O	2.06	0.56
24:AX:43:THR:O	24:AX:43:THR:HG22	2.05	0.56
27:Aa:38:LYS:HG2	27:Aa:40:HIS:HD1	1.71	0.56
28:Ab:17:ASP:C	28:Ab:19:ARG:N	2.63	0.56
29:Ac:38:LYS:C	29:Ac:38:LYS:HD3	2.30	0.56
30:Ad:5:TRP:HZ3	30:Ad:12:ARG:NH1	2.04	0.56
31:Ae:31:HIS:O	31:Ae:32:LEU:HD23	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:9:G:H3'	38:BI:126:ARG:NH1	2.21	0.56
34:BA:23:C:O2'	34:BA:24:U:H5'	2.06	0.56
34:BA:366:C:O2'	34:BA:394:G:N2	2.39	0.56
34:BA:545:C:OP2	37:BH:62:GLN:OE1	2.23	0.56
34:BA:560:U:O5'	34:BA:566:G:N2	2.38	0.56
34:BA:619:U:O4	37:BH:134:ASP:OD1	2.24	0.56
34:BA:720:C:H1'	51:BV:50:ILE:HD12	1.88	0.56
34:BA:815:A:C8	34:BA:819:A:C2	2.94	0.56
34:BA:876:G:O2'	41:BL:11:THR:HG21	2.05	0.56
34:BA:918:A:H2'	34:BA:919:A:H8	1.69	0.56
34:BA:1000:A:C2	34:BA:1001:G:N7	2.74	0.56
34:BA:1002:G:C6	34:BA:1003:G:O6	2.59	0.56
34:BA:1132:C:H2'	34:BA:1133:G:H8	1.70	0.56
34:BA:1225:A:O3'	52:BW:80:TYR:CB	2.54	0.56
34:BA:1288:A:H8	34:BA:1288:A:O5'	1.89	0.56
34:BA:1377:A:H5''	34:BA:1378:C:C6	2.41	0.56
34:BA:1524:C:H2'	34:BA:1525:G:O4'	2.06	0.56
35:BF:20:GLU:C	35:BF:39:ILE:HG13	2.30	0.56
35:BF:157:ARG:O	35:BF:158:LEU:HG	2.05	0.56
36:BG:14:ILE:CG2	36:BG:179:ARG:HA	2.30	0.56
36:BG:131:ARG:HH12	38:BI:51:VAL:CG2	2.19	0.56
37:BH:46:LYS:O	37:BH:47:ARG:C	2.47	0.56
37:BH:72:GLU:OE1	37:BH:72:GLU:HA	2.05	0.56
37:BH:124:GLY:O	37:BH:125:HIS:C	2.47	0.56
38:BI:50:GLU:HB2	38:BI:53:LEU:HD23	1.86	0.56
38:BI:79:GLU:HA	38:BI:91:LEU:CD2	2.35	0.56
39:BJ:76:ALA:HA	39:BJ:79:LEU:HD12	1.88	0.56
41:BL:6:ILE:HD12	41:BL:85:ARG:HD3	1.88	0.56
41:BL:18:ARG:CZ	41:BL:18:ARG:N	2.68	0.56
41:BL:72:PRO:O	41:BL:73:ASP:HB2	2.06	0.56
43:BN:28:ARG:HH11	43:BN:28:ARG:HG2	1.71	0.56
44:BO:31:THR:OG1	44:BO:42:TRP:HB3	2.05	0.56
46:BQ:5:ALA:HB3	46:BQ:67:GLU:OE1	2.06	0.56
46:BQ:15:VAL:C	46:BQ:34:LEU:HD21	2.30	0.56
48:BS:78:TYR:CD2	48:BS:78:TYR:C	2.84	0.56
48:BS:78:TYR:C	48:BS:78:TYR:HD2	2.14	0.56
49:BT:59:TRP:HA	49:BT:59:TRP:HE3	1.70	0.56
50:BU:40:LYS:NZ	50:BU:42:TYR:CE1	2.74	0.56
51:BV:51:LEU:N	51:BV:51:LEU:HD12	2.21	0.56
51:BV:79:LEU:HD12	51:BV:79:LEU:N	2.20	0.56
53:BX:55:ILE:C	53:BX:57:ARG:N	2.60	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:211:GLN:O	55:CA:212:LEU:HB2	2.06	0.56
55:CA:237:VAL:CA	55:CA:291:THR:HG23	2.36	0.56
55:CA:398:GLU:CA	55:CA:472:TYR:HD1	2.12	0.56
55:CA:398:GLU:HB2	55:CA:399:PRO:CD	2.36	0.56
1:AA:13:A:O2'	1:AA:14:A:O5'	2.20	0.55
1:AA:26:G:N2	1:AA:27:G:H21	2.05	0.55
1:AA:37:C:O2'	6:AF:50:SER:CB	2.54	0.55
1:AA:60:G:O2'	1:AA:61:G:OP1	2.19	0.55
1:AA:124:G:H8	1:AA:124:G:O5'	1.89	0.55
1:AA:252:G:H21	1:AA:253:C:H1'	1.70	0.55
1:AA:270(K):C:H3'	1:AA:270(L):U:O4'	2.06	0.55
1:AA:270(K):C:H5''	1:AA:270(L):U:C6	2.41	0.55
1:AA:296:C:H6	1:AA:338:G:N2	2.03	0.55
1:AA:400:G:O6	27:Aa:63:TYR:HE1	1.88	0.55
1:AA:461:C:N4	1:AA:469:G:N2	2.54	0.55
1:AA:609:A:N1	1:AA:619:G:C2	2.74	0.55
1:AA:786:C:H5''	1:AA:1780:A:H8	1.70	0.55
1:AA:807:U:O2	1:AA:807:U:H2'	2.06	0.55
1:AA:848:G:C2	1:AA:931:G:O6	2.58	0.55
1:AA:867:C:N4	1:AA:868:U:C4	2.73	0.55
1:AA:875:G:C6	1:AA:876:C:N4	2.75	0.55
1:AA:892:G:C2	1:AA:893:C:C4	2.93	0.55
1:AA:975:G:C6	1:AA:976:C:H5	2.24	0.55
1:AA:1014:U:HO2'	1:AA:1015:G:H5'	1.68	0.55
1:AA:1034:G:C6	1:AA:1035:U:C4	2.94	0.55
1:AA:1071:G:N7	1:AA:1089:G:N2	2.09	0.55
1:AA:1080:C:C1'	10:AJ:129:GLY:CA	2.83	0.55
1:AA:1224:G:C2'	19:AS:87:HIS:CE1	2.89	0.55
1:AA:1256:G:C5	1:AA:1257:C:C5	2.94	0.55
1:AA:1272:A:N1	1:AA:1618:A:C2	2.73	0.55
1:AA:1344:G:H4'	1:AA:1384:A:C6	2.41	0.55
1:AA:1520:U:C6	1:AA:1520:U:OP2	2.58	0.55
1:AA:1555:G:C4	1:AA:1556:C:C5	2.94	0.55
1:AA:1679:U:H4'	1:AA:1990:C:O2'	2.06	0.55
1:AA:1780:A:O5'	1:AA:1781:C:H3'	2.06	0.55
1:AA:1818:U:C5'	4:AD:158:ALA:HB2	2.28	0.55
1:AA:2051:A:H5''	1:AA:2578:G:C5'	2.33	0.55
1:AA:2271:G:H5'	24:AX:20:ARG:HH12	1.71	0.55
1:AA:2287:A:C2	1:AA:2346:A:N6	2.74	0.55
1:AA:2311:A:H2	7:AG:45:GLU:CD	2.14	0.55
1:AA:2314:C:C5'	7:AG:38:VAL:HG21	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2361:A:H3'	1:AA:2362:G:C8	2.28	0.55
1:AA:2376:A:C2	1:AA:2377:A:C4	2.94	0.55
1:AA:2436:G:C5	1:AA:2437:U:C4	2.94	0.55
1:AA:2450:A:C2'	1:AA:2451:A:H5'	2.35	0.55
1:AA:2595:G:N3	1:AA:2599:G:N1	2.54	0.55
1:AA:2596:U:H2'	4:AD:242:ARG:NH2	2.16	0.55
1:AA:2606:C:C2	1:AA:2607:G:C8	2.93	0.55
1:AA:2691:C:O4'	1:AA:2872:G:O6	2.23	0.55
1:AA:2754:U:H2'	1:AA:2756:U:OP1	2.06	0.55
1:AA:2823:A:P	5:AE:113:PHE:CZ	2.99	0.55
2:AB:51:G:N7	16:AP:32:LEU:HD21	2.21	0.55
2:AB:80:U:C2'	2:AB:81:G:H8	2.19	0.55
3:AC:10:LEU:HD13	3:AC:13:LYS:HD2	1.86	0.55
3:AC:10:LEU:CG	3:AC:220:PRO:HG3	2.35	0.55
3:AC:213:TYR:N	3:AC:213:TYR:HD1	2.04	0.55
4:AD:169:GLU:CB	4:AD:184:LYS:NZ	2.62	0.55
4:AD:236:GLY:O	4:AD:237:GLU:HG2	2.05	0.55
5:AE:4:ILE:HG13	5:AE:27:LEU:CD1	2.34	0.55
5:AE:14:ILE:HG22	5:AE:19:ARG:CA	2.36	0.55
5:AE:103:ASP:CA	5:AE:170:LEU:HD21	2.37	0.55
6:AF:52:LYS:HD2	6:AF:88:VAL:HG23	1.86	0.55
6:AF:200:GLU:O	6:AF:201:VAL:C	2.49	0.55
7:AG:16:ARG:NH1	7:AG:16:ARG:CG	2.68	0.55
8:AH:85:LYS:HB2	8:AH:85:LYS:HZ2	1.71	0.55
8:AH:121:ILE:HG13	8:AH:133:VAL:CG2	2.33	0.55
11:AK:14:VAL:HG13	11:AK:138:LEU:C	2.31	0.55
11:AK:99:LEU:CG	11:AK:100:GLU:N	2.69	0.55
11:AK:100:GLU:HB3	11:AK:104:LYS:HE2	1.89	0.55
11:AK:107:LEU:HD13	11:AK:117:PHE:CE2	2.41	0.55
11:AK:133:GLN:OE1	11:AK:133:GLN:HA	2.05	0.55
12:AL:12:ASP:O	12:AL:94:ARG:CZ	2.54	0.55
12:AL:26:LYS:HG3	12:AL:27:GLY:H	1.70	0.55
13:AM:9:ASN:O	13:AM:10:PRO:C	2.49	0.55
14:AN:98:LYS:N	14:AN:98:LYS:CE	2.68	0.55
15:AO:22:ARG:O	15:AO:23:ASN:C	2.47	0.55
15:AO:52:ILE:O	15:AO:56:LYS:HG3	2.06	0.55
16:AP:106:ARG:HH11	16:AP:106:ARG:C	2.14	0.55
17:AQ:39:ARG:CD	34:BA:345:C:O5'	2.54	0.55
17:AQ:42:ILE:HD11	34:BA:344:A:HO2'	1.66	0.55
18:AR:26:GLY:O	18:AR:27:LEU:HB2	2.06	0.55
18:AR:83:LEU:HD21	18:AR:95:LEU:HD13	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:62:LEU:CD1	19:AS:96:ILE:HD13	2.35	0.55
22:AV:46:LYS:HD3	22:AV:52:SER:OG	2.05	0.55
22:AV:50:ARG:HB2	22:AV:54:LYS:CD	2.36	0.55
23:AW:4:ARG:HG2	23:AW:38:TYR:O	2.05	0.55
23:AW:44:PHE:CD2	23:AW:48:PHE:HE2	2.24	0.55
24:AX:27:GLU:OE1	24:AX:27:GLU:HA	2.06	0.55
24:AX:50:ASN:HB3	24:AX:63:VAL:CG2	2.36	0.55
26:AZ:3:ARG:HH11	26:AZ:3:ARG:CB	2.14	0.55
26:AZ:5:LYS:CE	26:AZ:57:GLU:HB2	2.36	0.55
26:AZ:29:ARG:O	26:AZ:30:ARG:O	2.24	0.55
27:Aa:44:THR:CG2	27:Aa:45:GLY:N	2.69	0.55
28:Ab:51:TYR:CD2	28:Ab:55:ARG:N	2.75	0.55
31:Ae:15:LYS:O	31:Ae:22:VAL:CG1	2.50	0.55
31:Ae:16:ILE:CG2	31:Ae:21:LYS:O	2.54	0.55
33:Ag:305:UNK:C	33:Ag:307:UNK:N	2.64	0.55
34:BA:8:A:H4'	38:BI:102:ALA:HA	1.87	0.55
34:BA:22:G:H4'	34:BA:885:G:C8	2.41	0.55
34:BA:179:A:H3'	34:BA:180:U:C6	2.41	0.55
34:BA:258:G:H2'	34:BA:259:G:H8	1.71	0.55
34:BA:319:G:C2'	34:BA:320:C:H5'	2.36	0.55
34:BA:379:C:H2'	34:BA:380:G:C5'	2.35	0.55
34:BA:435:C:C2'	34:BA:436:C:H5'	2.36	0.55
34:BA:519:C:C5	34:BA:520:A:N3	2.74	0.55
34:BA:541:G:O4'	37:BH:42:GLN:NE2	2.36	0.55
34:BA:643:C:H5'	41:BL:31:PHE:CZ	2.42	0.55
34:BA:738:C:C2	34:BA:739:C:C5	2.93	0.55
34:BA:902:G:H2'	34:BA:903:G:H8	1.70	0.55
34:BA:962:C:H2'	34:BA:963:G:C8	2.41	0.55
34:BA:1017:G:H2'	34:BA:1018:C:H6	1.71	0.55
34:BA:1125:U:H4'	34:BA:1126:U:H5	1.71	0.55
34:BA:1204:A:H2'	34:BA:1205:U:H5'	1.87	0.55
34:BA:1305:G:OP1	54:BY:2:GLY:HA3	2.05	0.55
34:BA:1346:A:C2	40:BK:10:ARG:CD	2.87	0.55
35:BF:8:LYS:O	35:BF:9:GLU:HB2	2.06	0.55
37:BH:17:VAL:O	37:BH:18:LYS:C	2.48	0.55
37:BH:151:LYS:H	37:BH:151:LYS:HD2	1.71	0.55
37:BH:162:LEU:O	37:BH:166:LYS:HG2	2.05	0.55
38:BI:43:LEU:HD23	38:BI:44:GLY:CA	2.36	0.55
40:BK:43:PHE:HD2	40:BK:44:TYR:CD2	2.23	0.55
42:BM:67:GLY:N	42:BM:73:GLN:HE21	2.03	0.55
44:BO:57:THR:C	44:BO:59:TYR:N	2.60	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:11:LYS:O	47:BR:13:THR:N	2.39	0.55
47:BR:23:ARG:HH11	47:BR:29:ARG:N	2.05	0.55
49:BT:12:LYS:NZ	49:BT:13:HIS:CE1	2.74	0.55
49:BT:58:TYR:CD1	49:BT:59:TRP:N	2.73	0.55
50:BU:3:LYS:HE3	50:BU:62:SER:O	2.06	0.55
50:BU:74:LEU:O	50:BU:74:LEU:HD13	2.05	0.55
50:BU:104:LYS:CG	50:BU:105:ALA:H	2.19	0.55
51:BV:75:ILE:HG22	51:BV:76:LEU:HD22	1.87	0.55
52:BW:9:VAL:CG1	52:BW:41:VAL:CG2	2.80	0.55
55:CA:6:ARG:C	55:CA:69:ARG:CB	2.74	0.55
55:CA:144:VAL:O	55:CA:147:LEU:HB2	2.07	0.55
55:CA:215:ASN:ND2	55:CA:218:VAL:HG23	2.15	0.55
55:CA:322:GLU:HB2	55:CA:582:PRO:HD2	1.88	0.55
55:CA:370:ILE:HG21	55:CA:565:LEU:HD21	1.77	0.55
55:CA:481:GLY:CA	55:CA:482:GLN:HB2	2.36	0.55
1:AA:2:G:C2	1:AA:3:U:C2	2.94	0.55
1:AA:13:A:C8	1:AA:15:G:O6	2.59	0.55
1:AA:46:C:C6	1:AA:215:G:H8	2.24	0.55
1:AA:161:U:O2	1:AA:164:U:N3	2.38	0.55
1:AA:236:C:N3	1:AA:237:C:C5	2.74	0.55
1:AA:270(J):G:H3'	1:AA:270(K):C:H6	1.68	0.55
1:AA:271(B):G:C5'	1:AA:271(C):U:O4'	2.53	0.55
1:AA:326:G:H22	1:AA:337:C:C1'	2.17	0.55
1:AA:397:G:HO2'	1:AA:2231:C:H1'	1.70	0.55
1:AA:448:U:C2'	1:AA:449:A:OP1	2.53	0.55
1:AA:608:A:H61	1:AA:619:G:H2'	1.70	0.55
1:AA:671:C:H5'	1:AA:672:C:OP2	2.06	0.55
1:AA:716:A:O4'	48:BS:44:LYS:HE2	2.06	0.55
1:AA:873:G:C2	1:AA:905:U:C2	2.94	0.55
1:AA:917:A:C3'	1:AA:918:A:C5'	2.79	0.55
1:AA:960:A:C4	1:AA:962:G:C8	2.94	0.55
1:AA:1041:C:C2	1:AA:1115:G:O6	2.59	0.55
1:AA:1178:C:O2'	1:AA:1179:C:O5'	2.24	0.55
1:AA:1366:A:C5'	27:Aa:1:MET:N	2.69	0.55
1:AA:1424:G:H5'	1:AA:1499:C:O2'	2.05	0.55
1:AA:1449:A:C2	1:AA:1449(A):G:N9	2.75	0.55
1:AA:1483:G:H1'	1:AA:1507:A:H2	1.66	0.55
1:AA:1655:A:N6	1:AA:2005:A:O2'	2.39	0.55
1:AA:1788:C:C2'	4:AD:222:ARG:HE	2.18	0.55
1:AA:1790:C:H2'	1:AA:1790:C:O2	2.04	0.55
1:AA:1791:A:H4'	4:AD:206:LEU:HD23	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2007:C:C4	1:AA:2008:C:C5	2.94	0.55
1:AA:2040:C:C2	1:AA:2041:U:C5	2.94	0.55
1:AA:2055:C:C2'	1:AA:2504:U:H5'	2.33	0.55
1:AA:2211:G:H21	1:AA:2212:A:C5'	2.20	0.55
1:AA:2273:A:C8	1:AA:2274:A:C8	2.94	0.55
1:AA:2436:G:C5	1:AA:2437:U:C5	2.95	0.55
1:AA:2447:G:C4	1:AA:2500:U:C4	2.94	0.55
1:AA:2460:U:H3'	1:AA:2461:C:C5	2.41	0.55
1:AA:2594:C:H2'	1:AA:2595:G:O4'	2.06	0.55
1:AA:2630:G:H1	1:AA:2789:C:N4	2.03	0.55
1:AA:2717:G:C2	1:AA:2718:G:C5	2.94	0.55
1:AA:2822:G:N7	15:AO:4:LEU:HD21	2.21	0.55
1:AA:2848:G:C1'	17:AQ:99:LEU:HD21	2.37	0.55
2:AB:43:C:O5'	2:AB:43:C:C6	2.48	0.55
3:AC:103:ILE:CD1	3:AC:110:PHE:HZ	2.20	0.55
4:AD:108:PRO:CA	4:AD:195:ALA:O	2.51	0.55
4:AD:143:HIS:C	4:AD:145:VAL:N	2.54	0.55
4:AD:148:GLU:HA	4:AD:186:HIS:HE1	1.71	0.55
4:AD:165:ILE:HD12	4:AD:165:ILE:N	2.21	0.55
6:AF:31:HIS:CG	13:AM:14:LYS:NZ	2.74	0.55
7:AG:128:ARG:CZ	7:AG:130:ASN:HD21	2.19	0.55
8:AH:28:GLY:HA3	8:AH:79:VAL:CB	2.33	0.55
8:AH:94:TYR:HE1	8:AH:96:ALA:CB	2.19	0.55
8:AH:133:VAL:HG22	8:AH:134:SER:H	1.70	0.55
8:AH:157:TYR:CD1	8:AH:158:HIS:HB2	2.41	0.55
10:AJ:99:ILE:HG22	10:AJ:99:ILE:O	2.05	0.55
10:AJ:134:MET:HE3	10:AJ:135:GLY:N	2.20	0.55
11:AK:39:ARG:HB3	11:AK:48:MET:SD	2.46	0.55
11:AK:49:GLY:O	11:AK:50:ASP:O	2.24	0.55
12:AL:10:VAL:HG13	12:AL:17:ARG:HA	1.84	0.55
12:AL:89:ASN:HD22	12:AL:91:LEU:CB	2.19	0.55
14:AN:114:ALA:O	14:AN:117:ALA:HB3	2.06	0.55
15:AO:33:ARG:NH2	28:Ab:56:LYS:HE2	2.21	0.55
16:AP:24:LEU:HG	16:AP:41:ASP:HA	1.87	0.55
17:AQ:58:ASN:N	17:AQ:58:ASN:ND2	2.29	0.55
18:AR:47:TYR:CZ	19:AS:76:LYS:O	2.59	0.55
18:AR:88:ILE:CG2	19:AS:55:ALA:HB3	2.33	0.55
20:AT:8:ARG:C	20:AT:102:HIS:HD2	2.13	0.55
20:AT:15:ARG:C	20:AT:16:LYS:HZ2	2.14	0.55
22:AV:50:ARG:CA	22:AV:54:LYS:HA	2.31	0.55
24:AX:46:LYS:HE3	24:AX:76:GLY:HA3	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AZ:18:ASP:OD1	26:AZ:19:GLN:N	2.39	0.55
27:Aa:5:ILE:HB	27:Aa:8:LYS:O	2.06	0.55
33:Ag:339:UNK:O	33:Ag:341:UNK:N	2.39	0.55
34:BA:300:A:C2	34:BA:566:G:O6	2.59	0.55
34:BA:352:C:C6	34:BA:352:C:OP1	2.60	0.55
34:BA:640:A:H2'	34:BA:641:U:C5'	2.36	0.55
34:BA:763:G:C2'	34:BA:764:C:O5'	2.53	0.55
34:BA:809:G:O2'	34:BA:810:C:H5'	2.05	0.55
34:BA:923:A:OP1	38:BI:21:ALA:CB	2.55	0.55
34:BA:965:A:O2'	34:BA:966:G:O5'	2.24	0.55
34:BA:975:A:C8	34:BA:1365:G:N2	2.74	0.55
34:BA:978:A:H8	34:BA:978:A:H3'	1.69	0.55
34:BA:1054:C:OP1	34:BA:1197:G:OP1	2.25	0.55
34:BA:1157:A:H2'	34:BA:1181:G:N3	2.21	0.55
34:BA:1269:A:H5'	34:BA:1326:C:H4'	1.87	0.55
34:BA:1332:A:H2'	34:BA:1332:A:N3	2.21	0.55
35:BF:55:PHE:O	35:BF:58:ILE:HB	2.07	0.55
35:BF:121:LEU:HD22	35:BF:126:GLU:OE2	2.07	0.55
36:BG:28:GLN:CD	36:BG:29:TYR:N	2.64	0.55
37:BH:13:ARG:HH21	37:BH:40:PRO:CA	2.14	0.55
37:BH:58:LEU:CD2	37:BH:62:GLN:HG2	2.36	0.55
37:BH:155:LEU:N	37:BH:158:ILE:HG13	2.17	0.55
37:BH:185:PHE:HD2	37:BH:186:LEU:H	1.54	0.55
38:BI:63:ARG:CA	38:BI:66:MET:HG2	2.35	0.55
38:BI:94:ALA:HB1	38:BI:98:THR:CG2	2.31	0.55
39:BJ:100:ASN:OD1	51:BV:26:LEU:O	2.25	0.55
40:BK:49:ILE:HG21	40:BK:121:ALA:CB	2.30	0.55
40:BK:75:VAL:CG2	40:BK:88:PRO:HB3	2.36	0.55
41:BL:138:TRP:OXT	41:BL:138:TRP:CE3	2.60	0.55
45:BP:18:VAL:O	45:BP:19:ARG:HB2	2.06	0.55
45:BP:24:VAL:HG13	45:BP:98:TYR:CE2	2.41	0.55
45:BP:28:LYS:NZ	45:BP:33:ARG:NH2	2.41	0.55
45:BP:48:PRO:CG	45:BP:49:ASN:N	2.70	0.55
46:BQ:6:GLY:H	46:BQ:67:GLU:CD	2.14	0.55
46:BQ:78:ILE:C	46:BQ:81:LEU:HD11	2.32	0.55
50:BU:44:ALA:HB1	50:BU:71:PHE:O	2.06	0.55
50:BU:44:ALA:CB	50:BU:71:PHE:O	2.55	0.55
50:BU:59:ILE:CD1	50:BU:72:ARG:O	2.49	0.55
51:BV:80:PRO:O	51:BV:82:THR:O	2.22	0.55
53:BX:72:LEU:HD22	53:BX:76:ALA:C	2.30	0.55
55:CA:40:GLU:CG	55:CA:41:ARG:HB2	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:106:MET:HB3	55:CA:108:GLN:HG2	1.87	0.55
55:CA:246:THR:OG1	55:CA:247:ARG:N	2.29	0.55
55:CA:318:PHE:HA	55:CA:321:LYS:CE	2.36	0.55
55:CA:405:LEU:C	55:CA:407:VAL:HG13	2.31	0.55
55:CA:411:HIS:CD2	55:CA:459:THR:CG2	2.89	0.55
55:CA:497:VAL:CG2	55:CA:514:HIS:HE1	2.20	0.55
1:AA:1:G:C4	1:AA:2902:C:N3	2.27	0.55
1:AA:195:A:H5''	1:AA:196:A:OP2	2.07	0.55
1:AA:198:C:O2'	1:AA:199:A:C8	2.44	0.55
1:AA:297:C:N4	1:AA:298:G:N2	2.54	0.55
1:AA:547:A:N6	1:AA:548:A:C6	2.74	0.55
1:AA:627:A:C1'	1:AA:637:A:C6	2.89	0.55
1:AA:662:G:N1	1:AA:663:G:O6	2.39	0.55
1:AA:673:C:C2'	1:AA:674:G:C5'	2.80	0.55
1:AA:775:G:C2'	1:AA:794:G:C8	2.89	0.55
1:AA:785:G:C4	1:AA:786:C:C5	2.94	0.55
1:AA:820:A:N7	1:AA:973:A:C6	2.75	0.55
1:AA:950:G:C4	1:AA:951:C:C5	2.94	0.55
1:AA:1069:A:H5'	1:AA:1070:A:C8	2.41	0.55
1:AA:1127:A:C6	1:AA:2518:A:C2	2.94	0.55
1:AA:1131:G:N2	1:AA:1132:A:C2	2.74	0.55
1:AA:1144:G:C4	1:AA:1145:C:C5	2.94	0.55
1:AA:1178:C:N3	1:AA:1179:C:C4	2.74	0.55
1:AA:1178:C:C4	1:AA:1179:C:N4	2.74	0.55
1:AA:1179:C:C2'	1:AA:1180:C:H6	2.19	0.55
1:AA:1183:G:H3'	1:AA:1183:G:P	2.47	0.55
1:AA:1309:G:H1	1:AA:1605:C:H42	1.54	0.55
1:AA:1358:G:N7	1:AA:1371:G:C6	2.74	0.55
1:AA:1388:G:C2	1:AA:1400:G:C2	2.95	0.55
1:AA:1491:G:H4'	4:AD:72:LYS:NZ	2.22	0.55
1:AA:1578:U:H3'	1:AA:1580:A:C2	2.41	0.55
1:AA:1683:C:C2	1:AA:1684:C:H5	2.25	0.55
1:AA:1685:C:H2'	1:AA:1686:C:H6	1.72	0.55
1:AA:1784:A:H4'	1:AA:1785:A:C8	2.42	0.55
1:AA:1794:U:H5'	1:AA:1900:A:N6	2.21	0.55
1:AA:1900:A:H2	1:AA:1970:A:C6	2.24	0.55
1:AA:1993:U:N1	1:AA:1994:C:H5	2.04	0.55
1:AA:1993:U:O2'	1:AA:1994:C:H5'	2.05	0.55
1:AA:2051:A:H1'	5:AE:141:ILE:HD11	1.88	0.55
1:AA:2094:G:N2	1:AA:2196:C:C2	2.75	0.55
1:AA:2261:C:O5'	1:AA:2261:C:H6	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2286:A:C2	29:Ac:27:LYS:CB	2.73	0.55
1:AA:2286:A:H3'	1:AA:2286:A:H8	1.71	0.55
1:AA:2286:A:N7	29:Ac:31:PRO:HD2	2.21	0.55
1:AA:2412:A:C8	1:AA:2413:G:C8	2.94	0.55
1:AA:2436:G:O2'	1:AA:2437:U:H5'	2.06	0.55
1:AA:2437:U:C2	1:AA:2438:U:C5	2.94	0.55
1:AA:2486:G:N1	1:AA:2487:G:C5	2.75	0.55
1:AA:2520:C:H5	1:AA:2567:G:C4	2.21	0.55
1:AA:2552:U:O2	1:AA:2554:U:H5''	2.05	0.55
1:AA:2572:A:OP1	1:AA:2574:G:H4'	2.06	0.55
1:AA:2639:A:C4	1:AA:2778:A:C2	2.95	0.55
1:AA:2848:G:H21	1:AA:2849:U:H3	1.51	0.55
2:AB:88:C:H2'	2:AB:89:G:H5'	1.87	0.55
2:AB:97:G:C2'	2:AB:98:G:H5'	2.31	0.55
4:AD:29:PRO:CB	4:AD:31:LYS:HZ2	2.19	0.55
4:AD:29:PRO:O	4:AD:31:LYS:N	2.39	0.55
4:AD:63:ARG:HG2	4:AD:65:ILE:HG12	1.88	0.55
4:AD:94:LEU:HD12	4:AD:95:LEU:N	2.21	0.55
5:AE:202:LYS:C	5:AE:204:ALA:N	2.64	0.55
6:AF:32:LEU:HD11	6:AF:105:VAL:HG11	1.88	0.55
6:AF:63:LYS:CA	6:AF:76:GLY:O	2.53	0.55
7:AG:6:ALA:CA	7:AG:9:ARG:HH21	2.18	0.55
7:AG:49:ASP:CA	7:AG:53:LEU:HD13	2.36	0.55
7:AG:96:ARG:O	7:AG:100:TRP:HE3	1.89	0.55
8:AH:76:VAL:HA	8:AH:79:VAL:CG2	2.36	0.55
10:AJ:12:LEU:CD1	10:AJ:41:PHE:CE2	2.67	0.55
10:AJ:52:ILE:CG1	10:AJ:76:TYR:HD2	2.16	0.55
10:AJ:62:ASP:N	10:AJ:63:ARG:HA	2.19	0.55
10:AJ:105:LEU:HD23	10:AJ:123:ALA:CB	2.24	0.55
10:AJ:122:ALA:C	10:AJ:126:MET:HB3	2.30	0.55
11:AK:17:ASP:OD1	11:AK:18:ALA:N	2.39	0.55
11:AK:56:ASN:HB3	11:AK:59:LYS:HD2	1.87	0.55
11:AK:100:GLU:HB3	11:AK:104:LYS:CE	2.36	0.55
11:AK:126:PRO:O	11:AK:127:ASP:HB3	2.07	0.55
12:AL:18:LYS:HE2	12:AL:44:LYS:HD2	1.87	0.55
12:AL:39:ILE:N	12:AL:39:ILE:CD1	2.66	0.55
12:AL:63:VAL:CA	12:AL:78:ARG:HD3	2.36	0.55
12:AL:94:ARG:HG3	12:AL:96:THR:N	2.22	0.55
13:AM:15:ARG:HG3	13:AM:16:ARG:N	2.21	0.55
13:AM:74:GLU:HG2	13:AM:112:LEU:HD23	1.88	0.55
13:AM:81:GLN:CA	13:AM:86:LYS:HG3	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:34:LEU:HD21	14:AN:118:LEU:HD22	1.88	0.55
14:AN:99:PRO:O	14:AN:99:PRO:HG2	2.07	0.55
15:AO:5:LYS:HZ1	15:AO:6:SER:CA	2.20	0.55
15:AO:25:ALA:O	15:AO:29:LEU:CG	2.36	0.55
16:AP:56:LEU:CD1	16:AP:59:LYS:HD2	2.36	0.55
16:AP:60:GLY:C	16:AP:62:LYS:N	2.59	0.55
16:AP:93:LYS:O	16:AP:98:VAL:CG1	2.54	0.55
17:AQ:23:ARG:NH2	17:AQ:88:ILE:O	2.40	0.55
17:AQ:49:VAL:O	17:AQ:50:ILE:HG23	2.07	0.55
18:AR:91:ASP:OD1	19:AS:10:LYS:HD3	2.07	0.55
21:AU:26:TYR:HB2	21:AU:28:PHE:HZ	1.70	0.55
21:AU:85:PRO:CB	21:AU:87:GLN:HE21	2.19	0.55
23:AW:57:ILE:O	23:AW:58:VAL:HG22	2.05	0.55
27:Aa:29:PRO:O	27:Aa:31:ILE:N	2.39	0.55
31:Ae:24:ALA:O	31:Ae:25:MET:C	2.48	0.55
32:Af:32:HIS:O	32:Af:33:LYS:C	2.49	0.55
34:BA:38:G:O2'	34:BA:39:G:H5''	2.07	0.55
34:BA:151:A:N6	34:BA:152:A:C2	2.74	0.55
34:BA:186(A):C:H1'	53:BX:104:LEU:HD21	1.84	0.55
34:BA:295:C:O2	34:BA:296:U:O4'	2.24	0.55
34:BA:564:C:N3	50:BU:31:LEU:HD11	2.20	0.55
34:BA:591:U:OP1	41:BL:30:ARG:CZ	2.54	0.55
34:BA:679:C:H2'	34:BA:680:C:C6	2.40	0.55
34:BA:722:A:O3'	34:BA:723:U:C4	2.59	0.55
34:BA:787:A:C2	34:BA:788:U:O4'	2.60	0.55
34:BA:939:G:N2	34:BA:940:C:C2	2.75	0.55
34:BA:942:G:N2	42:BM:124:GLN:OE1	2.38	0.55
34:BA:1002:G:N2	34:BA:1039:C:C4	2.74	0.55
34:BA:1082:G:H2'	34:BA:1083:U:H5'	1.88	0.55
34:BA:1213:A:N6	34:BA:1215:G:C2	2.74	0.55
34:BA:1516:G:N2	34:BA:1518:A:P	2.79	0.55
35:BF:217:ARG:HG3	35:BF:217:ARG:NH1	2.22	0.55
35:BF:221:LEU:O	35:BF:221:LEU:HD22	2.07	0.55
36:BG:69:HIS:HA	36:BG:104:GLN:O	2.06	0.55
37:BH:58:LEU:O	37:BH:58:LEU:HD22	2.06	0.55
37:BH:80:GLU:CA	37:BH:83:SER:OG	2.54	0.55
38:BI:61:TYR:HA	38:BI:64:ARG:HG3	1.87	0.55
38:BI:106:PRO:O	38:BI:109:ILE:CG2	2.54	0.55
39:BJ:49:ALA:HB3	51:BV:79:LEU:CA	2.36	0.55
41:BL:6:ILE:C	41:BL:6:ILE:CD1	2.79	0.55
41:BL:91:ARG:C	41:BL:92:ARG:HD2	2.31	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:102:ARG:HD3	41:BL:105:ARG:NH1	2.21	0.55
41:BL:110:ALA:C	41:BL:111:ILE:HD12	2.31	0.55
41:BL:126:LYS:CE	41:BL:127:LEU:HB2	2.34	0.55
42:BM:27:THR:HG22	42:BM:30:GLY:H	1.71	0.55
42:BM:50:LEU:HD21	42:BM:55:ALA:C	2.31	0.55
43:BN:27:ALA:CB	43:BN:85:LEU:HD11	2.36	0.55
45:BP:27:LEU:HD21	45:BP:33:ARG:HH11	1.70	0.55
45:BP:126:LYS:HE3	45:BP:126:LYS:H	1.68	0.55
48:BS:17:ARG:HH11	48:BS:77:ARG:HD3	1.72	0.55
48:BS:71:GLN:N	48:BS:78:TYR:HD1	2.03	0.55
49:BT:6:LEU:CD2	49:BT:17:TYR:CD2	2.85	0.55
49:BT:20:VAL:HG11	49:BT:32:TYR:HB2	1.89	0.55
50:BU:84:LEU:O	50:BU:87:LYS:HB2	2.06	0.55
51:BV:74:ARG:HH11	51:BV:74:ARG:CG	2.17	0.55
53:BX:21:LYS:HA	53:BX:24:LEU:CD1	2.36	0.55
53:BX:63:ILE:HG22	53:BX:64:ASP:N	2.21	0.55
55:CA:64:ILE:H	55:CA:65:LYS:CB	2.19	0.55
55:CA:82:GLY:N	55:CA:361:ARG:CB	2.70	0.55
1:AA:86:C:O5'	1:AA:86:C:H6	1.89	0.55
1:AA:215:G:HO2'	1:AA:216:A:P	2.28	0.55
1:AA:270(E):G:OP2	1:AA:270(E):G:C8	2.60	0.55
1:AA:281:G:C8	1:AA:281:G:OP1	2.59	0.55
1:AA:396:G:H1'	27:Aa:39:CYS:SG	2.46	0.55
1:AA:448:U:O2'	1:AA:449:A:OP1	2.23	0.55
1:AA:696:G:N2	1:AA:697:C:C2	2.74	0.55
1:AA:819:A:N6	1:AA:1188:U:H3	2.04	0.55
1:AA:822:U:O2'	1:AA:823:G:OP1	2.21	0.55
1:AA:838:C:C4	1:AA:839:U:C4	2.94	0.55
1:AA:879:G:C2	1:AA:898:C:C2	2.93	0.55
1:AA:962:G:C2'	1:AA:963:U:H6	2.11	0.55
1:AA:988:A:OP1	26:AZ:12:PRO:HD2	2.06	0.55
1:AA:996:A:N6	1:AA:1160:G:C6	2.75	0.55
1:AA:1077:A:N6	1:AA:1088:A:C4'	2.69	0.55
1:AA:1188:U:H2'	1:AA:1189:A:H5'	1.88	0.55
1:AA:1269:A:O5'	1:AA:1269:A:H8	1.90	0.55
1:AA:1342:A:C4	1:AA:1345:C:N4	2.75	0.55
1:AA:1407:C:C2	1:AA:1408:C:C5	2.94	0.55
1:AA:1515:C:OP1	1:AA:1515:C:C6	2.59	0.55
1:AA:1655:A:H5''	5:AE:113:PHE:C	2.32	0.55
1:AA:1683:C:H2'	1:AA:1684:C:C6	2.42	0.55
1:AA:1811:G:H2'	1:AA:1812:A:O4'	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1915:U:H2'	1:AA:1915:U:O2	2.07	0.55
1:AA:2215:G:C8	1:AA:2215:G:O5'	2.60	0.55
1:AA:2346:A:C1'	1:AA:2383:G:C8	2.74	0.55
1:AA:2385:C:N3	1:AA:2386:C:C5	2.74	0.55
1:AA:2385:C:N3	1:AA:2386:C:C6	2.74	0.55
1:AA:2412:A:H2'	1:AA:2413:G:O4'	2.06	0.55
1:AA:2437:U:H2'	1:AA:2438:U:H6	1.69	0.55
1:AA:2491:U:C6	1:AA:2492:U:OP2	2.59	0.55
1:AA:2520:C:H2'	1:AA:2521:C:H6	1.72	0.55
1:AA:2543:G:N2	1:AA:2765:A:C2	2.74	0.55
1:AA:2619:C:O3'	5:AE:152:LYS:O	2.25	0.55
1:AA:2656:U:H2'	1:AA:2656:U:O2	2.07	0.55
1:AA:2670:A:N3	1:AA:2670:A:H2'	2.22	0.55
1:AA:2718:G:C5	1:AA:2719:G:C5	2.94	0.55
1:AA:2723:C:O2'	15:AO:2:ARG:CA	2.51	0.55
1:AA:2737:G:H2'	1:AA:2738:A:H8	1.71	0.55
1:AA:2756:U:O2'	1:AA:2757:A:C5'	2.55	0.55
1:AA:2793:G:C2	1:AA:2803:C:C2	2.94	0.55
2:AB:1:U:C4	2:AB:2:C:N4	2.75	0.55
2:AB:80:U:C2	2:AB:81:G:N7	2.74	0.55
3:AC:75:LEU:HD13	3:AC:110:PHE:CD2	2.42	0.55
4:AD:58:HIS:CD2	4:AD:215:LEU:HA	2.42	0.55
4:AD:244:ARG:C	4:AD:252:TRP:CD1	2.84	0.55
8:AH:15:VAL:HG21	8:AH:79:VAL:HG21	1.87	0.55
8:AH:124:GLU:C	8:AH:126:PRO:HD2	2.31	0.55
8:AH:126:PRO:O	8:AH:127:GLU:CG	2.50	0.55
8:AH:148:ILE:HG23	8:AH:149:ARG:N	2.21	0.55
9:AI:54:ALA:N	9:AI:84:GLU:C	2.60	0.55
11:AK:67:LEU:O	11:AK:68:GLU:CB	2.54	0.55
11:AK:112:LEU:C	11:AK:114:ARG:N	2.63	0.55
12:AL:106:LEU:HA	12:AL:111:PHE:HE1	1.71	0.55
13:AM:28:GLY:C	13:AM:29:LYS:CG	2.78	0.55
14:AN:36:ALA:HB1	14:AN:39:PRO:HG2	1.87	0.55
14:AN:85:LYS:CE	14:AN:88:GLY:HA3	2.36	0.55
15:AO:14:SER:HA	15:AO:17:ARG:CD	2.36	0.55
15:AO:20:LEU:HD11	15:AO:24:GLN:CD	2.31	0.55
15:AO:47:PHE:O	15:AO:48:VAL:C	2.49	0.55
15:AO:54:LEU:HA	15:AO:57:ARG:CG	2.34	0.55
15:AO:85:PRO:O	15:AO:86:ARG:C	2.50	0.55
15:AO:105:ARG:C	15:AO:107:ASP:H	2.13	0.55
16:AP:42:ASP:OD2	16:AP:44:LYS:HD2	2.05	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:107:ASP:OD1	17:AQ:107:ASP:N	2.40	0.55
18:AR:5:LYS:C	18:AR:7:GLY:N	2.65	0.55
20:AT:7:ALA:O	20:AT:102:HIS:HA	2.05	0.55
21:AU:40:LYS:O	21:AU:51:VAL:HG21	2.07	0.55
22:AV:7:VAL:C	22:AV:8:LYS:HD2	2.30	0.55
23:AW:104:PHE:CA	23:AW:139:VAL:O	2.53	0.55
25:AY:41:GLN:O	25:AY:44:LYS:N	2.39	0.55
26:AZ:38:GLU:HG2	26:AZ:40:THR:OG1	2.07	0.55
31:Ae:30:ARG:C	31:Ae:34:TRP:HE1	2.14	0.55
33:Ag:4:UNK:C	33:Ag:143:UNK:O	2.52	0.55
34:BA:9:G:P	38:BI:122:GLU:OE1	2.65	0.55
34:BA:197:A:N6	34:BA:221:C:C5'	2.65	0.55
34:BA:307:C:O2	34:BA:307:C:H2'	2.06	0.55
34:BA:532:A:C5'	36:BG:161:GLU:OE1	2.54	0.55
34:BA:619:U:H3	37:BH:135:LEU:CD2	2.20	0.55
34:BA:952:U:H5'	34:BA:972:C:N4	2.07	0.55
34:BA:966:G:C2'	34:BA:967:C:O5'	2.54	0.55
34:BA:1004:A:H2'	34:BA:1036:G:O6	2.05	0.55
34:BA:1105:A:O2'	34:BA:1106:G:C5'	2.38	0.55
34:BA:1277:C:O2'	34:BA:1279:A:C8	2.60	0.55
34:BA:1299:A:N6	34:BA:1301:U:C2	2.74	0.55
34:BA:1394:A:H62	34:BA:1501:C:C4'	2.18	0.55
34:BA:1428:A:C6	34:BA:1429:C:N4	2.75	0.55
34:BA:1516:G:H22	34:BA:1518:A:C3'	2.15	0.55
35:BF:12:GLU:OE1	35:BF:209:ARG:NH2	2.40	0.55
35:BF:124:SER:C	35:BF:126:GLU:H	2.15	0.55
35:BF:142:LEU:HD23	35:BF:142:LEU:C	2.31	0.55
35:BF:221:LEU:HD13	35:BF:222:ILE:N	2.21	0.55
36:BG:59:ARG:CZ	36:BG:64:VAL:HG22	2.36	0.55
36:BG:187:ALA:N	36:BG:198:VAL:HG22	2.19	0.55
37:BH:13:ARG:NH1	37:BH:38:TYR:CE1	2.75	0.55
37:BH:120:LEU:HG	37:BH:121:VAL:N	2.21	0.55
37:BH:122:ARG:HA	37:BH:134:ASP:O	2.07	0.55
37:BH:135:LEU:C	37:BH:137:SER:N	2.55	0.55
40:BK:17:VAL:O	40:BK:17:VAL:CG1	2.54	0.55
40:BK:110:GLN:O	40:BK:111:ARG:O	2.24	0.55
40:BK:111:ARG:CZ	40:BK:112:PRO:HD2	2.36	0.55
41:BL:26:VAL:HG13	41:BL:27:PRO:CD	2.35	0.55
42:BM:118:LYS:O	42:BM:119:ALA:C	2.50	0.55
44:BO:112:THR:O	44:BO:112:THR:HG22	2.06	0.55
45:BP:26:ALA:O	45:BP:27:LEU:HB3	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:96:VAL:O	45:BP:96:VAL:HG12	2.05	0.55
46:BQ:56:LEU:HD13	46:BQ:56:LEU:O	2.06	0.55
47:BR:13:THR:O	47:BR:15:LYS:N	2.39	0.55
52:BW:22:LEU:HG	52:BW:25:LYS:NZ	2.11	0.55
53:BX:86:ARG:HG2	53:BX:87:LYS:N	2.21	0.55
55:CA:59:LYS:HB2	55:CA:66:TRP:HH2	1.72	0.55
55:CA:162:ILE:O	55:CA:162:ILE:HG22	2.05	0.55
55:CA:325:PHE:HB3	55:CA:330:GLN:CB	2.36	0.55
55:CA:380:LEU:HD12	55:CA:380:LEU:O	2.07	0.55
55:CA:403:VAL:C	55:CA:465:LEU:HB2	2.31	0.55
55:CA:586:ARG:C	55:CA:587:ILE:HG13	2.30	0.55
1:AA:12:U:O2	1:AA:2627:G:OP1	2.25	0.55
1:AA:116:C:O2'	1:AA:117:G:H5'	2.06	0.55
1:AA:175:G:O2'	1:AA:176:G:C5'	2.47	0.55
1:AA:184:C:H2'	1:AA:185:U:C5	2.41	0.55
1:AA:270(F):U:C4	1:AA:270(G):C:C5	2.94	0.55
1:AA:289:A:C2'	1:AA:351:G:N1	2.63	0.55
1:AA:417:C:C4	1:AA:418:G:N7	2.75	0.55
1:AA:475:U:C6	1:AA:475:U:OP2	2.59	0.55
1:AA:569:U:OP1	1:AA:945:A:N6	2.40	0.55
1:AA:572:A:H61	1:AA:2029:G:H1'	1.71	0.55
1:AA:666:G:H5'	13:AM:45:LEU:HD12	1.89	0.55
1:AA:685:A:H1'	1:AA:688:U:O4	2.07	0.55
1:AA:714:U:O4	1:AA:717:G:OP2	2.24	0.55
1:AA:722:A:N3	1:AA:723:G:C8	2.75	0.55
1:AA:747:U:O2	1:AA:2613:U:O4	2.25	0.55
1:AA:748:G:H8	1:AA:750:A:OP2	1.89	0.55
1:AA:846:C:H4'	1:AA:847:U:O5'	2.07	0.55
1:AA:864:G:N2	1:AA:913:U:H1'	2.22	0.55
1:AA:975:G:N1	1:AA:976:C:H6	2.01	0.55
1:AA:1061:U:OP2	1:AA:1061:U:H6	1.90	0.55
1:AA:1071:G:C6	1:AA:1072:C:N4	2.74	0.55
1:AA:1128:A:O2'	1:AA:1129:A:H5'	2.07	0.55
1:AA:1142:U:C6	1:AA:1142(A):A:C8	2.84	0.55
1:AA:1179:C:H6	1:AA:1179:C:OP2	1.90	0.55
1:AA:1299:G:C6	1:AA:1639:U:H5''	2.41	0.55
1:AA:1341:U:O2'	21:AU:56:THR:O	2.20	0.55
1:AA:1571:A:C8	1:AA:1571:A:OP2	2.60	0.55
1:AA:1655:A:H2'	1:AA:1656:C:H6	1.70	0.55
1:AA:1672:C:O2	1:AA:2582:G:C1'	2.54	0.55
1:AA:1680:U:O5'	1:AA:1680:U:H6	1.90	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1699:G:C8	1:AA:1763:G:N2	2.74	0.55
1:AA:1754:C:O2	1:AA:1755:A:C1'	2.38	0.55
1:AA:1834:U:C1'	1:AA:1969:A:H2	2.19	0.55
1:AA:1936:A:O4'	1:AA:1940:U:C4	2.59	0.55
1:AA:1956:U:O2'	1:AA:1985:G:H4'	2.06	0.55
1:AA:2051:A:C6	1:AA:2614:A:C6	2.94	0.55
1:AA:2283:C:C4	1:AA:2389:G:C2	2.95	0.55
1:AA:2335:A:O2'	1:AA:2336:A:H8	1.89	0.55
1:AA:2544:G:H4'	1:AA:2645:G:OP1	2.07	0.55
1:AA:2745:C:H1'	8:AH:143:GLN:CG	2.35	0.55
1:AA:2747:G:C2	1:AA:2754:U:N3	2.75	0.55
1:AA:2815:C:C2	1:AA:2816:C:C5	2.94	0.55
1:AA:2851:A:N1	1:AA:2852:G:N3	2.54	0.55
2:AB:77:U:O3'	23:AW:78:LYS:CE	2.47	0.55
2:AB:109:G:N1	2:AB:110:G:C5	2.74	0.55
2:AB:115:G:H4'	16:AP:50:SER:OG	2.07	0.55
4:AD:5:LYS:HD3	4:AD:31:LYS:HZ2	1.71	0.55
6:AF:8:GLN:HB3	6:AF:18:ARG:HA	1.87	0.55
6:AF:154:VAL:HG21	6:AF:193:VAL:HG21	1.88	0.55
7:AG:125:PHE:HD2	7:AG:129:GLY:H	1.53	0.55
7:AG:140:ILE:HG22	7:AG:141:PHE:CD2	2.41	0.55
8:AH:40:GLU:O	8:AH:55:PRO:HD3	2.07	0.55
8:AH:98:LEU:N	8:AH:125:VAL:HG21	2.22	0.55
8:AH:135:GLY:HA3	8:AH:141:VAL:HG22	1.87	0.55
9:AI:124:ALA:HB3	9:AI:127:GLU:CB	2.37	0.55
10:AJ:17:ALA:CB	10:AJ:42:ASN:CB	2.85	0.55
11:AK:115:ARG:O	11:AK:118:LYS:CB	2.52	0.55
13:AM:56:SER:CB	31:Ae:13:ARG:NE	2.69	0.55
14:AN:6:ARG:NH2	14:AN:8:LYS:C	2.64	0.55
16:AP:103:GLU:C	16:AP:106:ARG:HB3	2.32	0.55
17:AQ:113:LYS:O	17:AQ:116:ALA:N	2.39	0.55
18:AR:32:PHE:N	18:AR:32:PHE:HD1	2.03	0.55
18:AR:40:PHE:HD2	19:AS:84:LYS:HG2	1.70	0.55
18:AR:111:GLU:CG	18:AR:112:ARG:N	2.70	0.55
19:AS:30:GLY:O	19:AS:33:VAL:HG23	2.07	0.55
19:AS:33:VAL:CG1	19:AS:34:GLU:N	2.69	0.55
21:AU:65:ARG:HA	21:AU:70:LEU:CD1	2.36	0.55
24:AX:44:ARG:O	24:AX:77:ARG:CB	2.53	0.55
24:AX:56:ASP:C	24:AX:57:PHE:CD1	2.84	0.55
24:AX:57:PHE:CD1	24:AX:57:PHE:N	2.73	0.55
26:AZ:8:LEU:HD13	26:AZ:8:LEU:C	2.32	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:22:ILE:HG22	27:Aa:22:ILE:O	2.06	0.55
27:Aa:39:CYS:C	27:Aa:40:HIS:CG	2.85	0.55
27:Aa:44:THR:CG2	27:Aa:45:GLY:H	2.20	0.55
29:Ac:12:GLU:HG3	29:Ac:53:LYS:O	2.07	0.55
34:BA:308:C:H2'	34:BA:309:G:O5'	2.07	0.55
34:BA:355:C:C2	34:BA:356:A:N7	2.75	0.55
34:BA:474:G:H5'	49:BT:81:ARG:CD	2.36	0.55
34:BA:551:U:C5'	45:BP:119:LYS:HZ3	2.17	0.55
34:BA:577:G:H1'	34:BA:816:A:C2	2.41	0.55
34:BA:587:G:N3	34:BA:755:G:C2	2.74	0.55
34:BA:691:G:N2	44:BO:51:LYS:NZ	2.55	0.55
34:BA:961:U:C6	34:BA:983:A:N1	2.74	0.55
34:BA:978:A:H8	34:BA:980:C:N4	2.05	0.55
34:BA:1068:G:OP2	34:BA:1094:G:H5'	2.07	0.55
34:BA:1110:A:C4	34:BA:1111:A:C8	2.94	0.55
34:BA:1202:G:H21	34:BA:1203:C:H1'	1.70	0.55
34:BA:1217:C:H2'	34:BA:1218:C:H6	1.71	0.55
34:BA:1225:A:O3'	52:BW:80:TYR:HB2	2.06	0.55
34:BA:1308:U:O4	34:BA:1309:G:N7	2.40	0.55
34:BA:1342:C:C1'	42:BM:124:GLN:OE1	2.49	0.55
34:BA:1353:G:N3	34:BA:1370:G:N2	2.55	0.55
34:BA:1438:G:H2'	34:BA:1439:C:H5'	1.89	0.55
34:BA:1481:U:H2'	34:BA:1482:G:N7	2.21	0.55
35:BF:54:THR:HG23	35:BF:199:TYR:HB3	1.89	0.55
36:BG:136:GLN:O	36:BG:137:ALA:C	2.47	0.55
37:BH:13:ARG:HB3	37:BH:40:PRO:HD3	1.89	0.55
37:BH:19:LEU:O	37:BH:20:TYR:C	2.48	0.55
37:BH:31:CYS:O	37:BH:33:MET:CG	2.53	0.55
37:BH:106:TYR:HB3	37:BH:114:ARG:NE	2.20	0.55
37:BH:172:PRO:CG	37:BH:193:ASP:HB3	2.37	0.55
38:BI:57:LYS:O	38:BI:58:ALA:C	2.48	0.55
39:BJ:12:PRO:C	39:BJ:14:LEU:H	2.14	0.55
39:BJ:37:VAL:HA	39:BJ:65:VAL:HB	1.88	0.55
40:BK:26:PHE:CD2	40:BK:43:PHE:CE1	2.94	0.55
40:BK:68:ASN:ND2	40:BK:127:ALA:O	2.39	0.55
40:BK:109:ASN:HA	40:BK:119:ARG:HD3	1.88	0.55
40:BK:132:GLY:O	40:BK:136:LYS:HB2	2.06	0.55
41:BL:17:THR:HB	41:BL:18:ARG:NH2	2.21	0.55
41:BL:47:GLY:O	41:BL:61:VAL:HA	2.06	0.55
41:BL:94:TYR:CE1	41:BL:132:GLU:OE1	2.57	0.55
41:BL:114:THR:O	41:BL:116:LYS:N	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:17:VAL:HG11	42:BM:81:ILE:HA	1.88	0.55
43:BN:19:SER:N	43:BN:91:PRO:HG3	2.21	0.55
45:BP:68:ALA:CB	45:BP:98:TYR:O	2.54	0.55
45:BP:115:LYS:O	45:BP:116:SER:C	2.49	0.55
46:BQ:19:LEU:HD11	46:BQ:30:ALA:HA	0.55	0.55
48:BS:31:LEU:HA	48:BS:34:LEU:HD21	1.88	0.55
48:BS:61:GLY:O	48:BS:62:GLN:C	2.50	0.55
50:BU:4:LYS:C	50:BU:5:VAL:HG23	2.31	0.55
50:BU:16:GLN:O	50:BU:17:LYS:CB	2.55	0.55
50:BU:56:VAL:C	50:BU:57:VAL:CG1	2.79	0.55
51:BV:30:ASP:OD2	51:BV:32:ARG:HB2	2.06	0.55
51:BV:75:ILE:HG22	51:BV:76:LEU:N	2.21	0.55
52:BW:6:LYS:HB2	52:BW:41:VAL:CG1	2.36	0.55
54:BY:3:LYS:O	54:BY:14:TRP:CE3	2.60	0.55
55:CA:20:THR:CG2	57:CA:701:GCP:O2A	2.55	0.55
55:CA:23:ASP:O	55:CA:24:LYS:CG	2.51	0.55
55:CA:28:GLN:HG3	55:CA:60:ASN:HB3	1.88	0.55
55:CA:29:SER:HG	55:CA:58:ALA:HB1	1.70	0.55
55:CA:164:TYR:CD2	55:CA:176:HIS:HE1	2.21	0.55
55:CA:220:VAL:N	55:CA:274:VAL:HG21	2.22	0.55
55:CA:446:ARG:NH2	55:CA:475:VAL:O	2.40	0.55
55:CA:488:LEU:CD2	55:CA:527:HIS:N	2.69	0.55
1:AA:204:A:H5'	1:AA:206:U:O4'	2.06	0.55
1:AA:253:C:H2'	1:AA:254:G:O5'	2.06	0.55
1:AA:270(A):A:H3'	1:AA:366:C:HO2'	1.72	0.55
1:AA:270(U):C:H2'	1:AA:270(V):G:O4'	2.06	0.55
1:AA:270(Y):G:H5''	1:AA:270(Z):U:OP1	2.07	0.55
1:AA:341:G:H2'	1:AA:342:G:O4'	2.07	0.55
1:AA:469:G:N1	30:Ad:40:TRP:NE1	2.52	0.55
1:AA:484:C:C2'	1:AA:485:C:H6	2.13	0.55
1:AA:495:G:O3'	20:AT:4:LYS:HE3	2.06	0.55
1:AA:621:A:C8	1:AA:622:G:C4'	2.89	0.55
1:AA:641:C:N4	1:AA:646:A:N6	2.54	0.55
1:AA:721:C:N3	1:AA:722:A:N7	2.55	0.55
1:AA:749:C:C6	1:AA:749:C:C3'	2.90	0.55
1:AA:783:A:C6	1:AA:785:G:C8	2.95	0.55
1:AA:852:G:C4	1:AA:853:G:C8	2.95	0.55
1:AA:893:C:C4	1:AA:894:C:C5	2.94	0.55
1:AA:919:G:N3	1:AA:920:G:C8	2.74	0.55
1:AA:947:G:C2'	1:AA:948:G:H5'	2.36	0.55
1:AA:969:U:H2'	1:AA:970:C:C4'	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1000:A:N7	1:AA:1001:A:C5	2.74	0.55
1:AA:1355:G:N2	1:AA:1377:G:N3	2.54	0.55
1:AA:1419:A:C3'	1:AA:1420:U:O4'	2.55	0.55
1:AA:1530:G:O3'	1:AA:1531:C:O4'	2.25	0.55
1:AA:1566:A:C2	4:AD:215:LEU:HD22	2.41	0.55
1:AA:1676:A:C8	1:AA:1677:A:N7	2.73	0.55
1:AA:1699:G:O6	1:AA:1763:G:O4'	2.24	0.55
1:AA:1718:G:N2	1:AA:1742:C:C4	2.75	0.55
1:AA:1815:A:C1'	1:AA:1817:G:C4	2.89	0.55
1:AA:1990:C:N3	1:AA:1991:U:N3	2.54	0.55
1:AA:2002:G:H4'	1:AA:2712(A):A:O2'	2.06	0.55
1:AA:2014:A:O2'	1:AA:2015:A:N3	2.37	0.55
1:AA:2056:G:C4	1:AA:2577:A:C2	2.95	0.55
1:AA:2163:C:C2'	1:AA:2164:C:H5'	2.36	0.55
1:AA:2168:G:N3	1:AA:2170:A:C8	2.74	0.55
1:AA:2210:G:O6	4:AD:150:LYS:N	2.39	0.55
1:AA:2296:U:C5	16:AP:5:THR:HG23	2.41	0.55
1:AA:2530:A:H3'	1:AA:2531:A:H5''	1.85	0.55
1:AA:2560:C:C2'	1:AA:2561:A:H5'	2.36	0.55
1:AA:2597:G:H5'	4:AD:242:ARG:CD	2.36	0.55
1:AA:2617:C:N3	1:AA:2618:G:C8	2.74	0.55
1:AA:2629:A:C5	1:AA:2896:C:O5'	2.44	0.55
2:AB:90:C:O2'	2:AB:91:C:C5'	2.54	0.55
4:AD:5:LYS:HD2	4:AD:113:VAL:CG2	2.36	0.55
4:AD:5:LYS:HE2	4:AD:29:PRO:HA	1.88	0.55
4:AD:135:PHE:N	4:AD:135:PHE:HD1	2.04	0.55
4:AD:206:LEU:N	4:AD:206:LEU:CD1	2.59	0.55
4:AD:253:GLN:O	4:AD:254:THR:HG23	2.07	0.55
5:AE:53:PRO:O	5:AE:54:GLN:O	2.25	0.55
5:AE:64:LYS:O	5:AE:65:GLY:C	2.50	0.55
5:AE:148:GLY:O	5:AE:149:ARG:CB	2.54	0.55
6:AF:46:ARG:HG2	6:AF:46:ARG:HH11	1.71	0.55
6:AF:64:ILE:CD1	6:AF:65:TRP:N	2.59	0.55
6:AF:133:ASN:CG	6:AF:162:LEU:HD13	2.31	0.55
6:AF:182:ASN:OD1	6:AF:185:ASP:OD1	2.23	0.55
8:AH:20:ALA:HB1	8:AH:21:PRO:HD3	1.88	0.55
8:AH:38:SER:HB3	8:AH:41:MET:SD	2.46	0.55
8:AH:68:THR:O	8:AH:72:ILE:HG13	2.06	0.55
10:AJ:40:ALA:C	10:AJ:66:THR:CG2	2.72	0.55
10:AJ:103:GLN:C	10:AJ:106:GLU:HG3	2.32	0.55
12:AL:63:VAL:HG12	12:AL:99:PHE:CZ	2.41	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:15:ARG:HH12	13:AM:16:ARG:HB2	1.71	0.55
14:AN:8:LYS:NZ	14:AN:11:LYS:NZ	2.51	0.55
14:AN:137:TYR:HE2	23:AW:124:ILE:HD12	1.72	0.55
17:AQ:31:SER:C	17:AQ:32:TYR:CG	2.81	0.55
18:AR:29:SER:OG	18:AR:30:LYS:HD2	2.06	0.55
18:AR:99:ALA:CA	18:AR:106:PHE:CD1	2.90	0.55
20:AT:7:ALA:N	20:AT:103:ILE:HD13	2.21	0.55
20:AT:42:ARG:HG3	20:AT:43:GLY:H	1.71	0.55
21:AU:7:VAL:CB	25:AY:28:MET:HG2	2.36	0.55
21:AU:31:HIS:CD2	21:AU:31:HIS:C	2.83	0.55
21:AU:50:LYS:HG3	21:AU:84:ALA:H	1.71	0.55
23:AW:102:LEU:HD21	23:AW:125:LEU:HD12	1.87	0.55
24:AX:12:ASN:CA	24:AX:14:ARG:NE	2.69	0.55
24:AX:45:PHE:HB3	24:AX:59:LEU:HD11	1.88	0.55
25:AY:39:LEU:O	25:AY:42:ASN:ND2	2.38	0.55
25:AY:63:ARG:HB3	25:AY:63:ARG:HH11	1.71	0.55
27:Aa:56:VAL:C	27:Aa:61:ARG:NH2	2.65	0.55
31:Ae:40:GLU:O	31:Ae:43:GLN:OE1	2.23	0.55
31:Ae:43:GLN:N	31:Ae:43:GLN:CD	2.63	0.55
34:BA:170:U:O2'	34:BA:171:A:H5'	2.07	0.55
34:BA:237:C:H2'	34:BA:238:G:H8	1.71	0.55
34:BA:446:G:H2'	34:BA:447:G:C8	2.42	0.55
34:BA:490:G:H2'	34:BA:491:G:H8	1.72	0.55
34:BA:493:G:H2'	34:BA:494:U:C5	2.41	0.55
34:BA:520:A:OP1	45:BP:52:LEU:HD21	2.07	0.55
34:BA:582:U:O5'	34:BA:582:U:H6	1.90	0.55
34:BA:598:U:C4'	41:BL:94:TYR:CD2	2.86	0.55
34:BA:792:A:C2'	34:BA:794:A:H62	2.06	0.55
34:BA:1112:C:O2	36:BG:179:ARG:CZ	2.52	0.55
34:BA:1226:C:C6	46:BQ:104:ARG:CA	2.89	0.55
34:BA:1238:A:N6	34:BA:1301:U:H3	1.97	0.55
34:BA:1498:U:H2'	34:BA:1498:U:O2	2.07	0.55
35:BF:31:TYR:OH	35:BF:200:ILE:HD13	2.07	0.55
35:BF:135:GLN:O	35:BF:139:LYS:HG2	2.06	0.55
35:BF:157:ARG:HG2	35:BF:158:LEU:CD2	2.35	0.55
35:BF:189:ASP:HB2	35:BF:205:ASP:CB	2.36	0.55
35:BF:192:SER:C	35:BF:194:PRO:CD	2.80	0.55
36:BG:35:GLU:O	36:BG:39:ILE:HG13	2.07	0.55
37:BH:20:TYR:C	37:BH:22:LYS:H	2.12	0.55
37:BH:63:LYS:HD2	37:BH:63:LYS:N	2.21	0.55
37:BH:107:ARG:HH11	37:BH:107:ARG:CA	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:133:VAL:CG1	37:BH:138:TYR:HD1	2.07	0.55
37:BH:171:GLY:HA3	37:BH:173:TRP:HZ3	1.71	0.55
37:BH:187:ARG:O	37:BH:188:LEU:C	2.48	0.55
37:BH:200:GLU:CG	37:BH:201:GLN:N	2.68	0.55
38:BI:78:HIS:CE1	38:BI:142:LEU:HD22	2.42	0.55
39:BJ:77:ARG:HA	39:BJ:80:ARG:HE	1.71	0.55
40:BK:51:GLN:CD	40:BK:58:PRO:HD3	2.32	0.55
40:BK:103:TRP:CH2	40:BK:138:LYS:CA	2.73	0.55
41:BL:70:GLN:HE21	41:BL:70:GLN:C	2.14	0.55
42:BM:11:LYS:O	42:BM:12:GLU:HG2	2.07	0.55
44:BO:62:GLN:HA	44:BO:97:ALA:CB	2.36	0.55
45:BP:53:ARG:HB3	45:BP:69:TYR:CE1	2.41	0.55
46:BQ:14:ARG:HE	46:BQ:42:ALA:HA	1.72	0.55
47:BR:39:LEU:HB2	47:BR:44:LEU:HD13	1.88	0.55
49:BT:4:ILE:HG12	49:BT:66:PRO:HA	1.88	0.55
49:BT:68:ASP:O	49:BT:69:THR:C	2.49	0.55
51:BV:21:LYS:HD2	51:BV:22:VAL:N	2.17	0.55
52:BW:3:ARG:HB3	52:BW:42:PRO:HA	1.89	0.55
53:BX:15:ARG:O	53:BX:16:HIS:C	2.47	0.55
53:BX:29:LYS:O	53:BX:30:LYS:C	2.50	0.55
55:CA:13:HIS:NE2	55:CA:106:MET:N	2.55	0.55
55:CA:16:HIS:O	57:CA:701:GCP:C5'	2.55	0.55
55:CA:20:THR:HG21	57:CA:701:GCP:O2A	2.06	0.55
55:CA:406:ASP:CG	55:CA:407:VAL:HG22	2.31	0.55
1:AA:62:C:O5'	1:AA:62:C:H6	1.90	0.55
1:AA:108:U:H4'	1:AA:348:G:C2	2.41	0.55
1:AA:257:A:O2'	1:AA:258:G:H5'	2.06	0.55
1:AA:265:A:C2	1:AA:281:G:O5'	2.60	0.55
1:AA:271(C):U:O4	1:AA:421:U:C4	2.60	0.55
1:AA:449:A:C2'	1:AA:450:G:O4'	2.53	0.55
1:AA:458:G:OP1	30:Ad:39:ARG:NH1	2.40	0.55
1:AA:493:G:H21	1:AA:494:G:H1'	1.71	0.55
1:AA:570:G:H1	1:AA:2498:C:C3'	2.19	0.55
1:AA:584:C:H2'	1:AA:585:G:C5'	2.37	0.55
1:AA:588:U:H2'	1:AA:589:C:C6	2.42	0.55
1:AA:636:G:O6	13:AM:111:ARG:NH2	2.24	0.55
1:AA:716:A:C1'	48:BS:44:LYS:HE2	2.36	0.55
1:AA:768:G:O2'	1:AA:769:G:H5'	2.07	0.55
1:AA:775:G:N2	1:AA:788:A:OP2	2.38	0.55
1:AA:786:C:H5''	1:AA:1780:A:C8	2.41	0.55
1:AA:866:A:N7	1:AA:914:C:O2	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:919:G:C2'	1:AA:920:G:O5'	2.55	0.55
1:AA:988:A:O3'	26:AZ:10:LYS:NZ	2.36	0.55
1:AA:1083:U:H2'	1:AA:1084:A:C5'	2.36	0.55
1:AA:1083:U:O2'	1:AA:1084:A:H5''	2.07	0.55
1:AA:1127:A:N1	1:AA:2518:A:N3	2.55	0.55
1:AA:1241:A:HO2'	1:AA:1242:A:P	2.29	0.55
1:AA:1291:C:H2'	1:AA:1292:U:H6	1.71	0.55
1:AA:1359:A:C8	1:AA:1359:A:O5'	2.60	0.55
1:AA:1392:A:H2'	1:AA:1393:A:C8	2.42	0.55
1:AA:1399:C:H2'	1:AA:1400:G:H8	1.70	0.55
1:AA:1428:C:C4	1:AA:1569:A:H5''	2.41	0.55
1:AA:1460:A:N1	1:AA:1732:A:C6	2.74	0.55
1:AA:1472:A:N7	1:AA:1474:C:C5	2.74	0.55
1:AA:1473:G:C2'	1:AA:1474:C:O4'	2.54	0.55
1:AA:1525:G:C4	1:AA:1526:G:C8	2.94	0.55
1:AA:1538:G:N2	1:AA:1539:G:N3	2.55	0.55
1:AA:1559:G:H1	1:AA:1560:G:C4'	2.09	0.55
1:AA:1565:C:C4	1:AA:1567:A:C8	2.94	0.55
1:AA:1579:A:H61	1:AA:1581:G:H21	1.53	0.55
1:AA:1580:A:H2'	1:AA:1581:G:C1'	2.36	0.55
1:AA:1581:G:O2'	1:AA:1582:C:H5'	2.07	0.55
1:AA:1784:A:H4'	1:AA:1785:A:C1'	2.37	0.55
1:AA:1789:A:OP1	4:AD:222:ARG:CG	2.51	0.55
1:AA:1799:G:C2'	1:AA:1800:C:O5'	2.54	0.55
1:AA:1803:A:C8	1:AA:1803:A:OP2	2.60	0.55
1:AA:1926:U:H3	1:AA:1929:G:N2	2.01	0.55
1:AA:1931:U:H2'	1:AA:1932:A:C8	2.41	0.55
1:AA:1954:G:H2'	1:AA:1956:U:O4	2.06	0.55
1:AA:2041:U:O2	1:AA:2042:A:C8	2.60	0.55
1:AA:2091:U:H5''	1:AA:2093:G:OP1	2.07	0.55
1:AA:2166:G:H2'	1:AA:2167:U:H6	1.72	0.55
1:AA:2274:A:N7	1:AA:2276:G:C8	2.75	0.55
1:AA:2309:A:H3'	1:AA:2309:A:N3	2.21	0.55
1:AA:2458:G:C8	1:AA:2490:G:O6	2.60	0.55
1:AA:2586:C:N4	1:AA:2587:A:H62	2.05	0.55
1:AA:2588:G:H8	1:AA:2588:G:O5'	1.90	0.55
1:AA:2711:A:N6	1:AA:2714:G:C5	2.74	0.55
1:AA:2817:G:H2'	1:AA:2818:G:H8	1.72	0.55
3:AC:56:GLN:NE2	3:AC:203:GLY:C	2.64	0.55
3:AC:73:ARG:HG2	3:AC:92:ASP:CG	2.31	0.55
3:AC:184:LYS:O	3:AC:185:LEU:C	2.49	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:151:LYS:O	4:AD:152:GLY:O	2.23	0.55
4:AD:199:ALA:O	4:AD:200:ASP:C	2.48	0.55
4:AD:221:VAL:O	4:AD:222:ARG:CG	2.52	0.55
4:AD:268:ARG:C	4:AD:269:PHE:CD2	2.85	0.55
6:AF:45:ARG:CG	6:AF:46:ARG:H	2.20	0.55
7:AG:149:VAL:HG13	7:AG:150:ASP:N	2.21	0.55
8:AH:152:ARG:HB2	8:AH:152:ARG:CZ	2.37	0.55
10:AJ:16:LYS:H	10:AJ:16:LYS:CD	2.20	0.55
11:AK:60:ILE:CG2	11:AK:61:ARG:N	2.70	0.55
11:AK:127:ASP:O	11:AK:128:HIS:C	2.50	0.55
12:AL:19:ILE:O	12:AL:19:ILE:CD1	2.53	0.55
12:AL:22:ILE:HB	12:AL:23:ARG:HD2	1.88	0.55
13:AM:23:PRO:CG	13:AM:29:LYS:H	2.20	0.55
13:AM:47:ASP:CB	13:AM:48:PRO:CD	2.82	0.55
13:AM:70:GLN:HB3	13:AM:110:TYR:OH	2.06	0.55
14:AN:16:ARG:HG2	14:AN:73:PRO:CD	2.34	0.55
14:AN:67:ARG:HH21	14:AN:103:MET:C	2.15	0.55
14:AN:75:THR:CG2	14:AN:77:LYS:H	2.14	0.55
15:AO:88:ARG:O	15:AO:89:ASP:CB	2.55	0.55
16:AP:106:ARG:HH22	16:AP:110:LEU:CD1	2.16	0.55
18:AR:65:ILE:HG21	18:AR:95:LEU:HB2	1.88	0.55
18:AR:108:GLU:OE2	18:AR:109:LEU:CG	2.51	0.55
20:AT:12:ILE:HD12	20:AT:46:PHE:CE1	2.41	0.55
20:AT:36:LEU:CD2	20:AT:51:LEU:HD21	2.25	0.55
20:AT:72:LYS:CB	20:AT:108:GLY:HA3	2.36	0.55
21:AU:73:ARG:NH2	21:AU:74:PRO:C	2.65	0.55
23:AW:60:GLU:OE2	23:AW:67:LEU:O	2.24	0.55
28:Ab:13:LYS:O	28:Ab:14:ALA:C	2.50	0.55
28:Ab:44:THR:N	28:Ab:52:TYR:OH	2.39	0.55
29:Ac:19:ARG:C	29:Ac:43:CYS:SG	2.87	0.55
29:Ac:48:VAL:CG1	29:Ac:49:HIS:H	2.02	0.55
30:Ad:30:VAL:HG22	30:Ad:33:ARG:NH2	2.22	0.55
32:Af:25:VAL:HG21	32:Af:34:GLN:CD	2.32	0.55
34:BA:363:A:C4	45:BP:31:PRO:HG2	2.42	0.55
34:BA:474:G:O5'	49:BT:81:ARG:HA	2.06	0.55
34:BA:594:G:N7	34:BA:595:G:N3	2.54	0.55
34:BA:654:G:H1'	34:BA:753:A:C2	2.40	0.55
34:BA:925:G:O2'	34:BA:927:G:OP1	2.19	0.55
34:BA:956:U:O2'	34:BA:957:U:C5'	2.55	0.55
34:BA:980:C:C4	34:BA:981:U:N3	2.75	0.55
34:BA:1224:G:O6	34:BA:1322:C:H1'	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1259:C:O5'	34:BA:1259:C:H6	1.89	0.55
34:BA:1406:U:O2	34:BA:1407:C:C6	2.60	0.55
34:BA:1496:C:H2'	34:BA:1497:G:C8	2.42	0.55
35:BF:52:GLU:CD	35:BF:53:ARG:H	2.13	0.55
35:BF:171:ALA:O	35:BF:172:ILE:C	2.49	0.55
35:BF:234:PRO:HB2	35:BF:238:LEU:HD22	1.89	0.55
36:BG:6:HIS:HB3	47:BR:49:HIS:ND1	2.20	0.55
36:BG:17:ASP:OD2	36:BG:18:TRP:HZ3	1.90	0.55
36:BG:30:ARG:HD3	36:BG:30:ARG:H	1.71	0.55
36:BG:72:LYS:O	36:BG:76:VAL:HB	2.06	0.55
36:BG:110:ASN:HD21	36:BG:140:ARG:CG	2.19	0.55
36:BG:123:GLN:HB3	36:BG:128:PHE:CE2	2.41	0.55
36:BG:201:TYR:N	36:BG:201:TYR:HD1	2.02	0.55
37:BH:165:MET:O	37:BH:166:LYS:C	2.50	0.55
41:BL:33:GLU:CA	41:BL:36:LEU:HD21	2.34	0.55
41:BL:44:PHE:HD1	41:BL:79:VAL:HG12	1.71	0.55
41:BL:87:SER:CB	41:BL:93:VAL:N	2.70	0.55
41:BL:112:LEU:CB	41:BL:133:LEU:HA	2.37	0.55
41:BL:119:LEU:HB3	41:BL:123:GLU:CD	2.31	0.55
41:BL:121:ASP:O	41:BL:122:ARG:C	2.49	0.55
42:BM:16:ARG:NH1	42:BM:64:THR:HG21	2.21	0.55
42:BM:17:VAL:HA	42:BM:63:ILE:HG23	1.89	0.55
45:BP:27:LEU:CD2	45:BP:33:ARG:HH11	2.19	0.55
45:BP:60:LEU:HD13	45:BP:64:TYR:O	2.06	0.55
50:BU:48:GLU:OE1	50:BU:50:LYS:HB2	2.07	0.55
52:BW:9:VAL:HA	52:BW:41:VAL:CG2	2.37	0.55
52:BW:12:ASP:OD1	52:BW:38:SER:HA	2.06	0.55
55:CA:102:PHE:O	55:CA:103:ASP:HB2	2.05	0.55
55:CA:307:VAL:HG11	55:CA:366:LEU:CD1	2.25	0.55
55:CA:427:LYS:HG3	55:CA:442:VAL:HG21	1.86	0.55
1:AA:41:C:C2	1:AA:43:G:C8	2.94	0.55
1:AA:71:A:O2'	1:AA:72:U:P	2.65	0.55
1:AA:112:U:O2	1:AA:112:U:H2'	2.06	0.55
1:AA:186:G:O2'	1:AA:187:G:H5'	2.06	0.55
1:AA:278:A:H2'	1:AA:279:C:N1	2.21	0.55
1:AA:292:C:C2'	1:AA:293:U:H3	2.20	0.55
1:AA:388:G:OP1	27:Aa:29:PRO:HD3	2.07	0.55
1:AA:543:C:H2'	1:AA:544:C:H5	1.70	0.55
1:AA:558:G:O2'	1:AA:559:G:H5''	2.07	0.55
1:AA:714:U:C2'	1:AA:715:G:C8	2.88	0.55
1:AA:848:G:N2	1:AA:933:A:C4	2.74	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:852:G:C5	1:AA:853:G:N7	2.75	0.55
1:AA:1011:G:OP2	18:AR:75:ASN:CG	2.50	0.55
1:AA:1093:G:H21	1:AA:1098:A:N6	2.05	0.55
1:AA:1237:A:HO2'	1:AA:1238:G:C4'	2.13	0.55
1:AA:1242:A:H3'	1:AA:1243:G:H8	1.72	0.55
1:AA:1267:U:C5	1:AA:2012:G:N2	2.75	0.55
1:AA:1649:G:C2	1:AA:1650:G:N7	2.74	0.55
1:AA:1742:C:C6	1:AA:1743:G:H5''	2.41	0.55
1:AA:1813:G:HO2'	4:AD:46:GLN:CG	2.16	0.55
1:AA:1936:A:C4	1:AA:1940:U:N3	2.75	0.55
1:AA:1975:G:H2'	1:AA:1976:U:O5'	2.06	0.55
1:AA:2047:U:O2'	1:AA:2048:G:O5'	2.24	0.55
1:AA:2209:C:H3'	1:AA:2209:C:C6	2.42	0.55
1:AA:2392:A:C2	1:AA:2429:G:N3	2.75	0.55
1:AA:2393:A:H5''	13:AM:56:SER:HA	1.87	0.55
1:AA:2447:G:C4	1:AA:2500:U:C5	2.94	0.55
1:AA:2644:G:H1	1:AA:2645:G:N2	2.04	0.55
1:AA:2686:G:O2'	1:AA:2687:U:H5'	2.07	0.55
1:AA:2706:G:C4	1:AA:2707:G:C8	2.95	0.55
1:AA:2825:C:C4	1:AA:2826:A:N7	2.74	0.55
1:AA:2864:G:O2'	1:AA:2865:U:H5'	2.07	0.55
2:AB:62:C:H2'	2:AB:63:G:C8	2.26	0.55
4:AD:132:PRO:HA	4:AD:190:TYR:CD1	2.42	0.55
4:AD:176:ARG:CG	4:AD:176:ARG:NH1	2.67	0.55
5:AE:176:ILE:HD13	5:AE:176:ILE:C	2.32	0.55
6:AF:75:HIS:NE2	6:AF:80:ALA:CB	2.69	0.55
7:AG:36:LYS:HA	7:AG:95:ARG:O	2.07	0.55
7:AG:68:PRO:HB3	7:AG:72:ARG:NH2	2.21	0.55
8:AH:35:VAL:CG1	8:AH:72:ILE:HA	2.15	0.55
10:AJ:12:LEU:HD11	10:AJ:57:ILE:CG2	2.36	0.55
11:AK:82:LEU:O	11:AK:83:LYS:C	2.50	0.55
11:AK:127:ASP:O	11:AK:130:HIS:N	2.40	0.55
12:AL:86:ILE:HG12	12:AL:90:GLN:O	2.07	0.55
12:AL:97:ARG:CD	12:AL:118:ALA:HB2	2.36	0.55
12:AL:106:LEU:CD2	17:AQ:38:ASN:HD21	2.19	0.55
14:AN:29:PHE:O	14:AN:29:PHE:CD1	2.56	0.55
15:AO:51:LEU:O	15:AO:52:ILE:C	2.50	0.55
15:AO:83:ILE:CD1	15:AO:86:ARG:HE	2.16	0.55
15:AO:116:LEU:HG	15:AO:116:LEU:O	2.07	0.55
16:AP:17:ARG:O	16:AP:20:ARG:CB	2.54	0.55
17:AQ:112:ARG:O	17:AQ:113:LYS:C	2.50	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:76:TYR:O	18:AR:77:SER:C	2.50	0.55
20:AT:29:LEU:HD23	20:AT:29:LEU:C	2.31	0.55
22:AV:1:MET:HA	22:AV:33:LYS:CG	2.37	0.55
22:AV:75:ILE:HG23	22:AV:75:ILE:O	2.07	0.55
23:AW:11:GLU:O	23:AW:15:PRO:HG3	2.07	0.55
23:AW:29:TYR:CD2	23:AW:72:ARG:NH2	2.74	0.55
23:AW:87:ASP:N	23:AW:87:ASP:OD1	2.39	0.55
23:AW:94:GLU:O	23:AW:96:VAL:HG23	2.06	0.55
24:AX:40:GLN:HE22	24:AX:43:THR:HA	1.72	0.55
28:Ab:41:PRO:O	28:Ab:42:PRO:C	2.49	0.55
28:Ab:50:GLY:HA3	28:Ab:57:VAL:HG23	1.87	0.55
29:Ac:7:ILE:HG22	29:Ac:8:LYS:N	2.22	0.55
31:Ae:30:ARG:HH21	31:Ae:43:GLN:N	2.05	0.55
31:Ae:40:GLU:C	31:Ae:42:ARG:H	2.14	0.55
32:Af:10:ILE:HD13	32:Af:14:CYS:SG	2.47	0.55
34:BA:46:G:H1'	34:BA:396:G:N2	2.21	0.55
34:BA:432:A:H3'	34:BA:432:A:H8	1.71	0.55
34:BA:521:G:O6	45:BP:49:ASN:ND2	2.40	0.55
34:BA:577:G:O2'	34:BA:578:C:O5'	2.23	0.55
34:BA:791:G:H2'	34:BA:792:A:O4'	2.06	0.55
34:BA:858:G:N2	34:BA:870:U:P	2.80	0.55
34:BA:917:G:O2'	34:BA:918:A:C5'	2.54	0.55
34:BA:920:U:H2'	34:BA:921:U:H6	1.72	0.55
34:BA:927:G:C5'	34:BA:1503:A:N6	2.56	0.55
34:BA:953:G:N7	46:BQ:104:ARG:NH2	2.55	0.55
34:BA:1081:G:OP1	38:BI:17:ALA:O	2.25	0.55
34:BA:1147:C:HO2'	42:BM:5:TYR:HE1	0.57	0.55
34:BA:1202:G:N7	43:BN:53:PRO:HB2	2.22	0.55
34:BA:1307:U:O4'	46:BQ:109:THR:HG21	2.07	0.55
35:BF:84:GLU:OE1	35:BF:233:SER:OG	2.23	0.55
35:BF:104:ASN:OD1	35:BF:108:ILE:CG1	2.53	0.55
36:BG:47:LEU:CD1	36:BG:83:ARG:NH2	2.70	0.55
36:BG:192:THR:O	36:BG:192:THR:HG22	2.06	0.55
37:BH:152:SER:HA	37:BH:155:LEU:CD2	2.37	0.55
38:BI:101:ILE:HD13	38:BI:101:ILE:N	2.22	0.55
39:BJ:42:GLU:HG3	39:BJ:44:GLY:H	1.70	0.55
40:BK:50:ILE:HB	40:BK:51:GLN:OE1	2.06	0.55
41:BL:82:HIS:NE2	41:BL:84:ARG:CG	2.70	0.55
42:BM:70:LYS:H	42:BM:70:LYS:HD2	1.72	0.55
42:BM:106:ALA:O	42:BM:107:ARG:CG	2.53	0.55
46:BQ:19:LEU:CD1	46:BQ:30:ALA:CB	2.70	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:29:VAL:O	48:BS:30:ALA:C	2.50	0.55
50:BU:44:ALA:CA	50:BU:71:PHE:O	2.55	0.55
50:BU:53:LEU:O	50:BU:53:LEU:HG	2.06	0.55
50:BU:87:LYS:O	50:BU:91:ARG:HB3	2.06	0.55
52:BW:51:VAL:CG1	52:BW:75:ALA:HB2	2.34	0.55
53:BX:81:LYS:HB3	53:BX:85:MET:CE	2.36	0.55
55:CA:29:SER:OG	55:CA:58:ALA:CB	2.55	0.55
55:CA:64:ILE:N	55:CA:65:LYS:HG2	2.22	0.55
55:CA:160:PHE:HD1	55:CA:161:ALA:O	1.90	0.55
55:CA:206:GLN:O	55:CA:227:LYS:CB	2.54	0.55
55:CA:311:PHE:CE1	55:CA:358:VAL:HG21	2.42	0.55
55:CA:325:PHE:HD2	55:CA:330:GLN:CD	2.15	0.55
1:AA:269:U:H2'	1:AA:269:U:O2	2.06	0.55
1:AA:270(X):G:C2	1:AA:270(Y):G:H1'	2.41	0.55
1:AA:285:C:C2	1:AA:286:C:C5	2.95	0.55
1:AA:460:A:C6	1:AA:470:A:C8	2.94	0.55
1:AA:621:A:C8	1:AA:622:G:H5'	2.42	0.55
1:AA:655:A:H5'	1:AA:656:G:OP1	2.07	0.55
1:AA:738:G:N3	1:AA:739:G:H1'	2.21	0.55
1:AA:754:C:N3	1:AA:755:C:C5	2.75	0.55
1:AA:945:A:OP1	1:AA:945:A:C4'	2.54	0.55
1:AA:954:G:C6	1:AA:964:C:C4	2.95	0.55
1:AA:955:C:H5''	14:AN:87:LYS:CE	2.36	0.55
1:AA:1116:C:N4	1:AA:1117:G:O6	2.40	0.55
1:AA:1134:G:C5	1:AA:1136:G:OP2	2.59	0.55
1:AA:1264:G:H3'	1:AA:1264:G:C8	2.42	0.55
1:AA:1340:U:C2	1:AA:1602:U:C5	2.95	0.55
1:AA:1364:G:N1	1:AA:1367:A:OP2	2.40	0.55
1:AA:1374:G:C6	1:AA:1375:C:C4	2.94	0.55
1:AA:1416:G:OP2	1:AA:1416:G:H4'	2.07	0.55
1:AA:1434:A:C2	1:AA:1435:G:C1'	2.89	0.55
1:AA:1480:G:C6	1:AA:1514:U:O4	2.60	0.55
1:AA:1614:A:N3	1:AA:1614:A:C3'	2.65	0.55
1:AA:1707:G:C2	1:AA:1756:G:N2	2.75	0.55
1:AA:1725:G:N2	1:AA:1726:G:O4'	2.40	0.55
1:AA:1771:C:O2'	1:AA:1772:G:H5'	2.07	0.55
1:AA:1782:C:H3'	1:AA:1782:C:C6	2.41	0.55
1:AA:1912:A:N1	1:AA:1919:A:C2	2.75	0.55
1:AA:1971:A:C2	4:AD:239:ARG:CA	2.90	0.55
1:AA:1980:G:O2'	1:AA:1981:A:P	2.65	0.55
1:AA:2053:G:O2'	1:AA:2054:A:C5'	2.53	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2118:U:OP1	1:AA:2147:G:C6	2.60	0.55
1:AA:2208:U:H1'	1:AA:2217:G:H1	1.70	0.55
1:AA:2423:U:C1'	1:AA:2425:A:C4	2.89	0.55
1:AA:2638:G:N7	1:AA:2775:A:N1	2.55	0.55
1:AA:2645:G:O2'	1:AA:2733:A:P	2.65	0.55
1:AA:2747:G:N2	1:AA:2754:U:H3	2.04	0.55
1:AA:2815:C:H2'	1:AA:2816:C:H6	1.70	0.55
2:AB:58:A:N7	2:AB:59:A:N7	2.55	0.55
2:AB:77:U:H5	2:AB:98:G:N2	2.04	0.55
2:AB:100:G:C2'	2:AB:101:A:H8	2.20	0.55
3:AC:94:VAL:C	3:AC:99:ILE:HD12	2.32	0.55
4:AD:79:VAL:CG1	4:AD:113:VAL:HA	2.37	0.55
4:AD:150:LYS:C	4:AD:152:GLY:N	2.65	0.55
6:AF:36:VAL:HG13	6:AF:37:VAL:N	2.21	0.55
6:AF:52:LYS:O	6:AF:53:THR:CG2	2.53	0.55
7:AG:8:LYS:HE2	7:AG:100:TRP:CD1	2.42	0.55
7:AG:75:LYS:HZ3	7:AG:85:GLY:HA3	1.71	0.55
8:AH:6:ARG:HD2	8:AH:66:GLY:CA	2.36	0.55
8:AH:30:LYS:O	8:AH:32:GLU:N	2.39	0.55
8:AH:33:LEU:HD22	8:AH:35:VAL:HG22	1.89	0.55
9:AI:89:ALA:O	9:AI:90:ALA:HB2	2.05	0.55
9:AI:135:ARG:O	9:AI:137:GLU:N	2.35	0.55
11:AK:7:LYS:HZ3	11:AK:39:ARG:HH12	1.54	0.55
11:AK:39:ARG:HG2	11:AK:40:PRO:CD	2.36	0.55
11:AK:55:VAL:O	11:AK:56:ASN:C	2.50	0.55
11:AK:87:LEU:HA	11:AK:90:MET:CG	2.37	0.55
11:AK:107:LEU:HD22	11:AK:117:PHE:CZ	2.41	0.55
12:AL:64:ARG:NE	12:AL:67:LYS:N	2.55	0.55
12:AL:84:ALA:HB3	12:AL:114:ILE:HD11	1.89	0.55
13:AM:114:ILE:HG12	13:AM:130:PHE:CA	2.35	0.55
13:AM:114:ILE:HD11	13:AM:123:LEU:HG	1.86	0.55
15:AO:14:SER:HA	15:AO:17:ARG:NE	2.22	0.55
15:AO:59:ASP:OD1	15:AO:62:ALA:N	2.39	0.55
15:AO:113:LEU:CD1	15:AO:114:VAL:N	2.70	0.55
16:AP:8:GLU:C	16:AP:10:ARG:N	2.59	0.55
17:AQ:2:ASN:OD1	17:AQ:3:ARG:N	2.36	0.55
18:AR:111:GLU:CG	18:AR:112:ARG:H	2.20	0.55
20:AT:25:ARG:C	20:AT:71:VAL:HG13	2.31	0.55
21:AU:29:TRP:CB	21:AU:76:ARG:HH21	2.19	0.55
22:AV:19:LYS:HD2	22:AV:40:GLU:OE1	2.06	0.55
23:AW:1:MET:H2	23:AW:53:ILE:HD11	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:44:THR:HG22	27:Aa:45:GLY:H	1.72	0.55
27:Aa:68:ARG:H	27:Aa:68:ARG:CD	2.19	0.55
27:Aa:68:ARG:H	27:Aa:68:ARG:CZ	2.20	0.55
29:Ac:20:ASN:CG	29:Ac:42:TRP:CD1	2.85	0.55
30:Ad:35:ARG:NH1	30:Ad:35:ARG:HB2	2.22	0.55
31:Ae:36:LYS:HE3	31:Ae:40:GLU:OE1	2.07	0.55
34:BA:27:G:C2	34:BA:557:G:N3	2.75	0.55
34:BA:327:A:C2	34:BA:329:A:C4	2.95	0.55
34:BA:494:U:O2'	34:BA:495:A:H5'	2.07	0.55
34:BA:498:A:O2'	34:BA:500:G:C8	2.60	0.55
34:BA:740:U:H2'	34:BA:741:G:C8	2.42	0.55
34:BA:756:C:O2'	34:BA:823:G:H1'	2.07	0.55
34:BA:833:U:C2	34:BA:834:C:C5	2.95	0.55
34:BA:858:G:H8	34:BA:858:G:O5'	1.89	0.55
34:BA:949:A:O2'	34:BA:971:G:N2	2.39	0.55
34:BA:1345:U:C2	34:BA:1377:A:C6	2.95	0.55
34:BA:1345:U:N3	34:BA:1377:A:C6	2.75	0.55
34:BA:1365:G:C6	34:BA:1366:C:C4	2.95	0.55
34:BA:1450:U:H1'	34:BA:1454:G:N2	2.22	0.55
35:BF:131:PRO:O	35:BF:134:GLU:HB2	2.07	0.55
35:BF:149:LEU:HD23	35:BF:153:ARG:HG2	1.89	0.55
35:BF:208:ILE:CA	35:BF:211:ILE:HB	2.35	0.55
36:BG:40:ARG:NH1	36:BG:40:ARG:HG3	2.22	0.55
37:BH:6:GLY:O	37:BH:8:VAL:HG22	2.07	0.55
37:BH:20:TYR:HB2	37:BH:27:TYR:CA	2.36	0.55
37:BH:38:TYR:CE1	37:BH:45:GLN:NE2	2.70	0.55
37:BH:58:LEU:HD22	37:BH:62:GLN:HG2	1.88	0.55
37:BH:67:ILE:C	37:BH:67:ILE:CD1	2.79	0.55
37:BH:110:PHE:CZ	37:BH:147:ALA:HB1	2.42	0.55
38:BI:115:VAL:HG11	38:BI:118:ILE:HD12	1.89	0.55
39:BJ:75:LEU:O	39:BJ:76:ALA:C	2.50	0.55
40:BK:87:VAL:HB	40:BK:156:TRP:CH2	2.42	0.55
41:BL:10:LEU:C	41:BL:13:ILE:HB	2.29	0.55
41:BL:10:LEU:CA	41:BL:13:ILE:HD12	2.37	0.55
41:BL:32:LYS:HG3	41:BL:59:LEU:HD12	1.89	0.55
41:BL:44:PHE:O	41:BL:64:LYS:CD	2.55	0.55
41:BL:112:LEU:HA	41:BL:134:ILE:H	1.72	0.55
42:BM:15:ALA:HB2	42:BM:73:GLN:O	2.07	0.55
43:BN:8:LEU:HD12	43:BN:16:LEU:HA	1.89	0.55
43:BN:34:VAL:HG22	43:BN:74:ILE:CD1	2.36	0.55
44:BO:85:ARG:HD2	44:BO:113:PRO:HD2	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:7:VAL:HG23	46:BQ:7:VAL:O	2.06	0.55
46:BQ:19:LEU:O	46:BQ:25:ILE:CD1	2.55	0.55
48:BS:83:GLU:O	48:BS:84:LYS:C	2.49	0.55
49:BT:35:LYS:HZ2	49:BT:37:GLY:N	2.04	0.55
51:BV:34:TYR:HE1	51:BV:35:ARG:HE	1.53	0.55
55:CA:4:LYS:C	55:CA:68:TYR:CD1	2.78	0.55
55:CA:41:ARG:CG	55:CA:42:VAL:HG13	2.36	0.55
55:CA:85:VAL:HG12	55:CA:85:VAL:O	2.07	0.55
55:CA:231:VAL:CG1	55:CA:232:LYS:H	2.16	0.55
1:AA:6:A:N3	1:AA:2898:U:C1'	2.70	0.55
1:AA:35:G:C6	1:AA:446:G:N2	2.75	0.55
1:AA:41:C:H2'	1:AA:43:G:H8	1.71	0.55
1:AA:112:U:C6	1:AA:112:U:OP2	2.60	0.55
1:AA:161:U:N3	1:AA:164:U:N3	2.54	0.55
1:AA:216:A:C2	1:AA:217:G:C5	2.94	0.55
1:AA:328:U:H6	1:AA:328:U:O5'	1.90	0.55
1:AA:334:C:OP2	1:AA:335:C:H5	1.90	0.55
1:AA:348:G:N3	1:AA:349:G:C8	2.75	0.55
1:AA:400:G:N2	27:Aa:63:TYR:HH	2.05	0.55
1:AA:603:A:C6	1:AA:625:G:C5	2.95	0.55
1:AA:638:G:C2'	1:AA:639:U:H5'	2.37	0.55
1:AA:675:A:C4'	6:AF:67:GLN:NE2	2.64	0.55
1:AA:771:G:N1	1:AA:772:C:C4	2.74	0.55
1:AA:819:A:C2	1:AA:943:U:O2	2.60	0.55
1:AA:838:C:N3	1:AA:941:A:N7	2.54	0.55
1:AA:840:C:H5'	1:AA:1192:G:H1'	1.89	0.55
1:AA:850:C:H5''	26:AZ:18:ASP:HB2	1.88	0.55
1:AA:875:G:N2	1:AA:876:C:C2	2.75	0.55
1:AA:1042:G:C2	1:AA:1114:G:C6	2.95	0.55
1:AA:1182:A:C6	1:AA:1183:G:C6	2.94	0.55
1:AA:1316:U:H5'	1:AA:1392:A:H1'	1.87	0.55
1:AA:1324:G:O2'	1:AA:1616:A:C6	2.54	0.55
1:AA:1357:U:N3	1:AA:1358:G:N3	2.55	0.55
1:AA:1364:G:OP1	27:Aa:3:GLU:HB2	2.06	0.55
1:AA:1455:G:H1'	1:AA:2853:C:OP1	2.06	0.55
1:AA:1469:A:H2'	1:AA:1470:G:H5'	1.88	0.55
1:AA:1470:G:H2'	1:AA:1519:G:O6	2.07	0.55
1:AA:1487:G:H2'	1:AA:1488:G:H8	1.72	0.55
1:AA:1509:C:OP2	1:AA:1509:C:H3'	2.07	0.55
1:AA:1510:A:H5'	1:AA:1511:A:OP2	2.06	0.55
1:AA:1558:A:C2	1:AA:1560:G:C1'	2.90	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1609:A:N6	1:AA:1616:A:C2	2.74	0.55
1:AA:1678:G:H22	1:AA:1989:G:N2	2.05	0.55
1:AA:1743:G:OP1	1:AA:1743:G:C4'	2.54	0.55
1:AA:1803:A:C3'	4:AD:257:LEU:HD13	2.37	0.55
1:AA:1808:U:H2'	1:AA:1808:U:O2	2.08	0.55
1:AA:1937:A:O2'	1:AA:1938:A:OP1	2.23	0.55
1:AA:1992:G:N1	1:AA:1995:U:O4	2.39	0.55
1:AA:2208:U:O2'	1:AA:2217:G:N2	2.39	0.55
1:AA:2216:G:N2	4:AD:150:LYS:HZ3	2.05	0.55
1:AA:2552:U:C2	1:AA:2554:U:H5''	2.42	0.55
1:AA:2668:G:N2	1:AA:2669:G:C2	2.75	0.55
1:AA:2734:A:N3	5:AE:203:LYS:HD2	2.21	0.55
1:AA:2830:G:N1	1:AA:2831:G:C5	2.75	0.55
2:AB:82:G:C2	2:AB:83:G:N7	2.74	0.55
3:AC:10:LEU:CD1	3:AC:32:LEU:CD2	2.84	0.55
3:AC:89:ALA:HB2	3:AC:154:ARG:HH11	1.72	0.55
4:AD:126:GLN:O	4:AD:126:GLN:HG3	2.06	0.55
5:AE:19:ARG:HB3	12:AL:73:ASP:CG	2.31	0.55
5:AE:100:GLU:O	5:AE:172:VAL:CG1	2.52	0.55
7:AG:170:ARG:O	7:AG:171:ALA:C	2.45	0.55
8:AH:33:LEU:CD2	8:AH:35:VAL:HG22	2.36	0.55
8:AH:41:MET:SD	8:AH:64:LEU:HD22	2.46	0.55
8:AH:89:ILE:HG12	8:AH:94:TYR:CD1	2.41	0.55
8:AH:101:ARG:C	8:AH:117:PRO:HD3	2.31	0.55
10:AJ:27:LEU:O	10:AJ:29:GLN:N	2.38	0.55
10:AJ:34:ILE:HD13	10:AJ:35:MET:O	2.07	0.55
12:AL:8:LEU:HD22	12:AL:81:ASP:O	2.05	0.55
12:AL:8:LEU:HD13	12:AL:9:GLU:N	2.22	0.55
12:AL:21:CYS:SG	12:AL:22:ILE:N	2.80	0.55
13:AM:124:LYS:CB	13:AM:143:GLY:HA3	2.37	0.55
14:AN:9:TYR:HD1	14:AN:9:TYR:H	1.52	0.55
14:AN:43:THR:OG1	14:AN:45:GLN:HB2	2.07	0.55
14:AN:63:LYS:O	14:AN:106:VAL:HG13	2.06	0.55
14:AN:118:LEU:CB	14:AN:131:ILE:HD13	2.37	0.55
16:AP:51:ALA:CA	16:AP:73:LEU:HG	2.36	0.55
18:AR:45:TYR:O	18:AR:46:ALA:C	2.49	0.55
19:AS:60:GLU:OE2	19:AS:101:GLY:HA3	2.07	0.55
22:AV:32:PRO:C	22:AV:34:LYS:N	2.65	0.55
22:AV:50:ARG:HA	22:AV:54:LYS:CA	2.32	0.55
23:AW:68:PRO:O	23:AW:90:VAL:HG12	2.07	0.55
24:AX:46:LYS:CG	24:AX:78:TYR:CE2	2.78	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:16:LEU:HD22	25:AY:58:VAL:HG22	1.88	0.55
26:AZ:22:ALA:HB1	26:AZ:46:ASN:CG	2.32	0.55
34:BA:778:G:C2'	34:BA:779:C:H5'	2.37	0.55
34:BA:794:A:C6	34:BA:795:C:N4	2.74	0.55
34:BA:931:C:H2'	34:BA:932:C:H5	1.72	0.55
34:BA:961:U:C6	34:BA:983:A:C6	2.95	0.55
34:BA:1108:G:H2'	34:BA:1109:C:H6	1.70	0.55
34:BA:1277:C:H2'	34:BA:1278:U:O4'	2.06	0.55
34:BA:1347:G:H2'	42:BM:107:ARG:O	2.07	0.55
35:BF:64:ARG:CD	35:BF:64:ARG:H	2.20	0.55
35:BF:67:THR:HB	35:BF:155:LEU:CD2	2.37	0.55
35:BF:72:GLY:C	35:BF:74:LYS:N	2.63	0.55
36:BG:24:ALA:CB	36:BG:28:GLN:HE22	2.20	0.55
36:BG:29:TYR:HD2	36:BG:29:TYR:C	2.15	0.55
36:BG:34:LEU:O	36:BG:38:ARG:HD3	2.06	0.55
36:BG:110:ASN:ND2	36:BG:140:ARG:O	2.40	0.55
36:BG:116:VAL:C	36:BG:119:ARG:HB3	2.30	0.55
36:BG:182:ILE:HG23	36:BG:202:ILE:C	2.31	0.55
37:BH:15:GLU:CG	37:BH:63:LYS:HB3	2.35	0.55
37:BH:129:ASN:ND2	37:BH:145:GLU:HG2	2.22	0.55
38:BI:91:LEU:HG	38:BI:92:LYS:N	2.21	0.55
38:BI:152:ARG:HH21	41:BL:44:PHE:N	2.05	0.55
39:BJ:14:LEU:CD1	39:BJ:15:ASP:O	2.55	0.55
39:BJ:50:TYR:CE1	51:BV:81:PHE:CE2	2.95	0.55
40:BK:38:LEU:HA	40:BK:41:ARG:CB	2.37	0.55
40:BK:66:VAL:O	40:BK:70:LYS:HG3	2.06	0.55
41:BL:14:ARG:HD2	41:BL:15:ASN:ND2	2.21	0.55
41:BL:111:ILE:HG23	41:BL:119:LEU:O	2.07	0.55
42:BM:11:LYS:C	42:BM:12:GLU:HG2	2.32	0.55
42:BM:15:ALA:CB	42:BM:77:ILE:N	2.70	0.55
43:BN:49:VAL:C	43:BN:60:ARG:HB3	2.32	0.55
43:BN:59:SER:O	43:BN:60:ARG:O	2.25	0.55
45:BP:50:SER:O	45:BP:51:ALA:CB	2.55	0.55
46:BQ:44:ARG:O	46:BQ:45:VAL:HB	2.05	0.55
48:BS:15:PHE:O	48:BS:16:ALA:C	2.49	0.55
52:BW:18:LYS:HE2	52:BW:22:LEU:HB2	1.88	0.55
52:BW:47:HIS:O	52:BW:61:TYR:HA	2.06	0.55
55:CA:491:ASN:CG	55:CA:536:ASN:HA	2.32	0.55
1:AA:6:A:C6	1:AA:2897:U:O4	2.50	0.54
1:AA:27:G:H22	1:AA:512:G:C2'	2.20	0.54
1:AA:55:G:H2'	1:AA:56:A:H8	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:83:G:C6	1:AA:102:G:H1'	2.42	0.54
1:AA:107:C:C4'	1:AA:293:U:H1'	2.32	0.54
1:AA:140:A:H61	1:AA:1596:A:C4'	2.20	0.54
1:AA:271:G:N3	1:AA:272:G:C8	2.75	0.54
1:AA:274:G:N3	1:AA:274:G:O5'	2.40	0.54
1:AA:280:C:N3	1:AA:283:A:N7	2.54	0.54
1:AA:389:G:N3	1:AA:389:G:H2'	2.21	0.54
1:AA:516:C:C2	1:AA:517:C:C5	2.95	0.54
1:AA:563:G:O5'	1:AA:564:C:P	2.65	0.54
1:AA:627:A:OP1	1:AA:637:A:N6	2.41	0.54
1:AA:641:C:H2'	1:AA:642:G:C4'	2.37	0.54
1:AA:653:A:H62	1:AA:655:A:C1'	2.13	0.54
1:AA:775:G:O4'	1:AA:777:A:C2	2.60	0.54
1:AA:832:G:C2'	1:AA:833:U:C5	2.89	0.54
1:AA:860:U:H5	1:AA:2267:A:H4'	1.65	0.54
1:AA:882:G:C8	1:AA:883:G:O4'	2.59	0.54
1:AA:967:C:H2'	1:AA:968:G:C8	2.42	0.54
1:AA:1061:U:H5''	10:AJ:52:ILE:HD11	1.87	0.54
1:AA:1095:A:H2'	1:AA:1096:A:O4'	2.06	0.54
1:AA:1137:G:C8	1:AA:1138:G:C8	2.95	0.54
1:AA:1174:A:N3	1:AA:1174:A:C2'	2.69	0.54
1:AA:1221:C:H2'	1:AA:1222:C:O5'	2.07	0.54
1:AA:1246:A:OP2	13:AM:15:ARG:CZ	2.55	0.54
1:AA:1289:C:C2	1:AA:1290:C:C5	2.95	0.54
1:AA:1310:G:N2	1:AA:1610:A:C2	2.75	0.54
1:AA:1430:C:C2	1:AA:1431:U:C5	2.95	0.54
1:AA:1471:A:H2'	1:AA:1472:A:C4'	2.37	0.54
1:AA:1477:A:H4'	1:AA:1478:G:OP2	2.08	0.54
1:AA:1557:C:C2'	1:AA:1558:A:H8	2.04	0.54
1:AA:1857:G:H2'	1:AA:1858:G:C5	2.42	0.54
1:AA:1882:C:H2'	1:AA:1883:G:C5'	2.37	0.54
1:AA:1891:G:N3	1:AA:1891:G:H2'	2.21	0.54
1:AA:1919:A:H4'	1:AA:1920:C:OP2	2.06	0.54
1:AA:2052:G:O5'	5:AE:141:ILE:HG13	2.07	0.54
1:AA:2056:G:C4	1:AA:2577:A:N3	2.75	0.54
1:AA:2066:C:C4	1:AA:2067:G:N7	2.74	0.54
1:AA:2210:G:O6	4:AD:150:LYS:CA	2.55	0.54
1:AA:2300:G:O2'	1:AA:2301:C:H5'	2.07	0.54
1:AA:2323:G:C6	1:AA:2324:C:N4	2.76	0.54
1:AA:2331:G:C5	1:AA:2332:U:N3	2.76	0.54
1:AA:2345:G:C5	1:AA:2371:G:N2	2.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2357:U:C2'	1:AA:2358:G:O5'	2.55	0.54
1:AA:2527:C:O2'	1:AA:2528:U:H5'	2.07	0.54
1:AA:2639:A:C4	1:AA:2778:A:N1	2.75	0.54
1:AA:2674:G:C4'	12:AL:26:LYS:HZ3	2.10	0.54
1:AA:2740:A:N6	1:AA:2764:A:N9	2.54	0.54
1:AA:2752:C:OP1	1:AA:2752:C:H6	1.90	0.54
1:AA:2821:A:O2'	1:AA:2822:G:H5'	2.07	0.54
1:AA:2875:C:O2'	17:AQ:4:GLY:HA3	2.08	0.54
1:AA:2881:C:OP1	15:AO:90:ARG:NH1	2.40	0.54
2:AB:38:C:O3'	16:AP:93:LYS:NZ	2.39	0.54
2:AB:48:A:O3'	16:AP:95:HIS:CE1	2.59	0.54
2:AB:114:G:H1'	16:AP:38:GLN:HE21	1.72	0.54
3:AC:50:ASP:OD1	3:AC:53:ARG:HG3	2.06	0.54
3:AC:93:TYR:HD1	3:AC:107:TRP:HZ2	1.55	0.54
3:AC:116:THR:HG23	3:AC:149:ILE:HB	1.88	0.54
4:AD:53:PHE:CD2	4:AD:221:VAL:HG13	2.42	0.54
4:AD:132:PRO:O	4:AD:133:LEU:O	2.25	0.54
4:AD:157:ARG:O	4:AD:160:GLY:N	2.40	0.54
4:AD:181:GLU:CD	4:AD:271:ILE:O	2.50	0.54
5:AE:149:ARG:NE	5:AE:150:VAL:O	2.40	0.54
6:AF:116:ASP:HA	6:AF:119:ARG:HG3	1.87	0.54
6:AF:184:TYR:O	6:AF:186:ILE:N	2.40	0.54
10:AJ:28:GLY:O	10:AJ:29:GLN:HG2	2.08	0.54
10:AJ:29:GLN:CG	55:CA:431:PRO:HB2	2.35	0.54
11:AK:99:LEU:HD12	11:AK:103:VAL:CG1	2.37	0.54
11:AK:127:ASP:OD1	11:AK:128:HIS:ND1	2.39	0.54
12:AL:24:VAL:HG22	12:AL:30:ALA:CB	2.37	0.54
13:AM:90:ARG:CA	13:AM:125:VAL:HG22	2.36	0.54
13:AM:92:GLU:N	13:AM:125:VAL:HG11	2.22	0.54
14:AN:49:ALA:O	14:AN:50:ALA:C	2.48	0.54
14:AN:72:LYS:HE2	14:AN:96:VAL:HG21	1.89	0.54
14:AN:94:VAL:HG23	14:AN:95:ALA:H	1.67	0.54
15:AO:25:ALA:CB	15:AO:48:VAL:HG22	2.37	0.54
15:AO:73:VAL:O	15:AO:76:VAL:HB	2.07	0.54
16:AP:12:PHE:CD1	16:AP:12:PHE:C	2.85	0.54
16:AP:57:LYS:O	16:AP:58:LEU:HB2	2.06	0.54
17:AQ:28:VAL:HG22	17:AQ:92:GLY:C	2.32	0.54
17:AQ:64:ARG:NH2	17:AQ:77:PRO:HB2	2.21	0.54
18:AR:88:ILE:CB	19:AS:52:VAL:HG13	2.37	0.54
20:AT:11:ARG:HH11	20:AT:11:ARG:CB	2.20	0.54
20:AT:90:ARG:HH11	20:AT:90:ARG:CA	2.20	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:26:LYS:NZ	22:AV:36:ALA:CB	2.70	0.54
22:AV:72:VAL:HG21	22:AV:96:ILE:HG21	1.89	0.54
23:AW:56:VAL:HG13	23:AW:133:ILE:CD1	2.36	0.54
24:AX:76:GLY:C	24:AX:78:TYR:HE1	2.14	0.54
24:AX:78:TYR:CD1	24:AX:78:TYR:N	2.75	0.54
27:Aa:42:PHE:CE2	27:Aa:43:TYR:O	2.60	0.54
30:Ad:21:ARG:HB2	30:Ad:21:ARG:HH11	1.70	0.54
31:Ae:58:ILE:CG2	31:Ae:61:LEU:HD12	2.36	0.54
34:BA:265:G:C8	34:BA:267:C:C5	2.94	0.54
34:BA:278:G:C1'	34:BA:282:A:H1'	2.38	0.54
34:BA:789:U:C6	34:BA:789:U:C3'	2.90	0.54
34:BA:859:A:C2'	34:BA:860:A:O5'	2.55	0.54
34:BA:1048:G:N2	34:BA:1210:C:H1'	2.22	0.54
34:BA:1064:G:OP1	34:BA:1386:G:H5'	2.07	0.54
34:BA:1095:U:H5'	34:BA:1109:C:O2	2.06	0.54
34:BA:1158:C:H1'	35:BF:133:LYS:HE3	1.89	0.54
34:BA:1187:G:H1'	47:BR:61:TRP:C	2.31	0.54
34:BA:1196:U:O2'	34:BA:1197:G:OP2	2.21	0.54
34:BA:1310:G:C5	34:BA:1327:C:N4	2.71	0.54
34:BA:1311:G:C2	34:BA:1326:C:H2'	2.42	0.54
35:BF:31:TYR:HE2	35:BF:200:ILE:CG2	2.15	0.54
35:BF:132:LYS:HZ2	35:BF:132:LYS:HB3	1.71	0.54
35:BF:150:SER:C	35:BF:153:ARG:HB2	2.32	0.54
36:BG:11:ARG:HH12	36:BG:180:ALA:N	2.05	0.54
36:BG:40:ARG:HG3	36:BG:40:ARG:HH11	1.72	0.54
36:BG:67:THR:CG2	36:BG:104:GLN:CG	2.85	0.54
37:BH:31:CYS:C	37:BH:33:MET:N	2.64	0.54
37:BH:51:PRO:O	37:BH:52:SER:C	2.50	0.54
37:BH:93:PHE:O	37:BH:95:GLY:N	2.40	0.54
37:BH:99:SER:O	37:BH:140:VAL:HG23	2.08	0.54
38:BI:37:ARG:NH1	38:BI:112:LEU:N	2.55	0.54
41:BL:45:ILE:HG12	41:BL:45:ILE:O	2.06	0.54
41:BL:63:LEU:HB2	41:BL:65:TYR:CE1	2.42	0.54
43:BN:57:LYS:O	43:BN:58:ASP:CG	2.50	0.54
45:BP:60:LEU:HD21	45:BP:64:TYR:CD2	2.42	0.54
46:BQ:48:LEU:CG	46:BQ:53:VAL:HG22	2.35	0.54
46:BQ:106:ASN:O	46:BQ:107:ALA:HB2	2.06	0.54
48:BS:56:LEU:HD12	48:BS:59:MET:HE3	1.89	0.54
48:BS:66:LEU:HD23	48:BS:66:LEU:H	1.70	0.54
53:BX:18:GLN:O	53:BX:19:SER:C	2.49	0.54
53:BX:86:ARG:HG2	53:BX:87:LYS:H	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:69:ARG:HG3	55:CA:70:ILE:O	2.07	0.54
55:CA:205:PHE:HE1	55:CA:226:ILE:HG21	1.72	0.54
1:AA:61:G:O2'	1:AA:62:C:H5'	2.07	0.54
1:AA:74:A:N1	25:AY:46:ARG:CD	2.70	0.54
1:AA:75:G:O2'	25:AY:50:ARG:NH2	2.40	0.54
1:AA:97:C:O5'	1:AA:97:C:H6	1.90	0.54
1:AA:248:G:OP1	27:Aa:28:LYS:CE	2.55	0.54
1:AA:281:G:OP1	1:AA:281:G:N7	2.40	0.54
1:AA:364:C:C2'	1:AA:365:C:C5	2.80	0.54
1:AA:394:A:C6	1:AA:395:U:C4	2.95	0.54
1:AA:489:G:C5	1:AA:1284:A:C2	2.95	0.54
1:AA:529:A:O3'	1:AA:530:G:C8	2.60	0.54
1:AA:535:C:O2'	18:AR:53:ARG:HG2	2.06	0.54
1:AA:558:G:O2'	1:AA:559:G:C5'	2.55	0.54
1:AA:734:A:C2'	1:AA:735:A:O5'	2.55	0.54
1:AA:802:A:H3'	1:AA:803:U:C5	2.42	0.54
1:AA:823:G:C3'	1:AA:824:A:H8	2.21	0.54
1:AA:836:G:C5	1:AA:837:C:N4	2.75	0.54
1:AA:873:G:C2	1:AA:905:U:O2	2.61	0.54
1:AA:1000:A:N1	1:AA:1155:A:C4	2.74	0.54
1:AA:1077:A:H2	10:AJ:133:SER:HA	1.71	0.54
1:AA:1299:G:N2	1:AA:1640:C:OP2	2.39	0.54
1:AA:1367:A:H62	1:AA:1368:G:H1'	1.72	0.54
1:AA:1456:G:C2	1:AA:1457:A:C8	2.94	0.54
1:AA:1540:G:C4	1:AA:1541:U:H1'	2.41	0.54
1:AA:1605:C:H3'	1:AA:1606:G:H8	1.72	0.54
1:AA:1632:A:H8	1:AA:1632:A:O5'	1.90	0.54
1:AA:1789:A:C8	1:AA:1790:C:C6	2.96	0.54
1:AA:1909:C:H2'	1:AA:1910:G:C8	2.42	0.54
1:AA:2209:C:H2'	1:AA:2210:G:C3'	2.36	0.54
1:AA:2210:G:C6	4:AD:150:LYS:CA	2.82	0.54
1:AA:2232:U:H2'	1:AA:2233:U:O5'	2.07	0.54
1:AA:2238:G:H2'	1:AA:2239:G:H5''	1.87	0.54
1:AA:2285:C:H3'	1:AA:2285:C:C6	2.42	0.54
1:AA:2293:C:H2'	1:AA:2294:C:H6	1.73	0.54
1:AA:2394:C:OP1	13:AM:57:THR:CA	2.52	0.54
1:AA:2468:G:H8	1:AA:2476:A:N1	2.06	0.54
1:AA:2498:C:C2'	1:AA:2498:C:O2	2.56	0.54
1:AA:2498:C:C3'	1:AA:2499:C:H5''	2.37	0.54
1:AA:2776:A:N7	1:AA:2781:A:C5	2.76	0.54
1:AA:2791:C:P	1:AA:2791:C:C3'	2.94	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2834:G:H3'	1:AA:2834:G:C8	2.42	0.54
2:AB:61:G:C6	2:AB:62:C:N4	2.74	0.54
2:AB:104:A:C2'	2:AB:105:G:O4'	2.53	0.54
3:AC:8:ARG:HH11	3:AC:11:LEU:CD2	2.16	0.54
3:AC:103:ILE:HA	3:AC:107:TRP:O	2.07	0.54
4:AD:17:THR:O	4:AD:17:THR:HG22	2.05	0.54
4:AD:53:PHE:C	4:AD:54:ARG:O	2.50	0.54
4:AD:264:LYS:O	4:AD:265:PRO:C	2.49	0.54
5:AE:144:ARG:HG2	5:AE:144:ARG:O	2.07	0.54
8:AH:35:VAL:CB	8:AH:72:ILE:HG23	2.37	0.54
9:AI:52:PHE:C	9:AI:54:ALA:H	2.12	0.54
9:AI:136:ALA:C	9:AI:138:LEU:H	2.15	0.54
10:AJ:72:PRO:CG	10:AJ:77:LEU:HD23	0.18	0.54
10:AJ:98:ARG:NH2	10:AJ:101:TRP:HD1	2.06	0.54
12:AL:97:ARG:C	12:AL:97:ARG:CZ	2.79	0.54
13:AM:47:ASP:HB3	13:AM:48:PRO:HD3	1.86	0.54
13:AM:116:GLY:HA3	13:AM:121:LYS:HB3	1.89	0.54
13:AM:138:LEU:HD13	13:AM:139:LYS:N	2.22	0.54
14:AN:77:LYS:HD2	14:AN:77:LYS:N	2.22	0.54
17:AQ:20:PRO:HB3	17:AQ:22:PHE:HE1	1.73	0.54
17:AQ:57:PHE:HA	17:AQ:61:PHE:HD2	1.72	0.54
17:AQ:80:SER:O	17:AQ:81:PRO:C	2.47	0.54
18:AR:6:THR:O	18:AR:9:VAL:HB	2.07	0.54
18:AR:94:ASN:ND2	19:AS:6:LYS:CE	2.61	0.54
19:AS:15:GLU:C	19:AS:100:ARG:NH2	2.64	0.54
19:AS:17:GLY:C	19:AS:19:LYS:H	2.15	0.54
19:AS:23:GLU:CA	19:AS:93:GLU:HB3	2.37	0.54
19:AS:27:ALA:O	19:AS:33:VAL:CG2	2.52	0.54
19:AS:50:PRO:CB	19:AS:53:GLU:OE1	2.55	0.54
19:AS:56:SER:O	19:AS:57:VAL:CG2	2.55	0.54
19:AS:57:VAL:HG12	19:AS:58:VAL:HG23	1.89	0.54
20:AT:98:LYS:HE2	20:AT:99:ARG:C	2.32	0.54
24:AX:54:GLY:C	24:AX:56:ASP:H	2.10	0.54
31:Ae:5:LYS:HA	31:Ae:59:LYS:O	2.08	0.54
32:Af:20:HIS:O	32:Af:22:ARG:N	2.40	0.54
34:BA:20:U:O4'	34:BA:572:A:N1	2.40	0.54
34:BA:232:G:C6	34:BA:233:C:N4	2.75	0.54
34:BA:601:C:H2'	34:BA:602:A:O4'	2.07	0.54
34:BA:620:C:C1'	37:BH:135:LEU:HD13	2.38	0.54
34:BA:660:G:H2'	34:BA:661:G:H8	1.72	0.54
34:BA:738:C:N4	34:BA:739:C:H41	2.05	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:812:C:O2'	34:BA:813:U:P	2.64	0.54
34:BA:832:C:C2	34:BA:833:U:C5	2.95	0.54
34:BA:866:C:C5	34:BA:867:G:C1'	2.86	0.54
34:BA:939:G:C2	34:BA:940:C:N3	2.75	0.54
34:BA:949:A:H3'	46:BQ:102:ARG:HH12	0.79	0.54
34:BA:959:A:C3'	34:BA:960:U:C5'	2.83	0.54
34:BA:1056:U:O2	34:BA:1056:U:H2'	2.07	0.54
34:BA:1099:G:C5	34:BA:1100:C:C5	2.96	0.54
34:BA:1112:C:C2	36:BG:179:ARG:NH2	2.71	0.54
34:BA:1116:C:C2	34:BA:1185:G:N1	2.76	0.54
34:BA:1128:C:C4'	42:BM:16:ARG:HH22	2.19	0.54
34:BA:1330:U:H4'	46:BQ:70:LEU:HD21	1.85	0.54
34:BA:1363:A:H5''	34:BA:1364:U:P	2.47	0.54
34:BA:1403:C:H1'	34:BA:1500:A:N1	2.23	0.54
34:BA:1462:G:H2'	34:BA:1463:C:C6	2.42	0.54
34:BA:1504:G:P	34:BA:1504:G:C3'	2.94	0.54
35:BF:80:ILE:HB	35:BF:208:ILE:HD11	1.89	0.54
35:BF:149:LEU:O	35:BF:151:GLY:N	2.39	0.54
36:BG:140:ARG:HB3	36:BG:140:ARG:CZ	2.38	0.54
37:BH:15:GLU:HA	37:BH:15:GLU:OE1	2.06	0.54
37:BH:39:PRO:O	37:BH:44:GLY:CA	2.55	0.54
37:BH:144:ASP:HA	37:BH:184:LYS:HZ2	1.70	0.54
38:BI:8:GLU:CD	38:BI:8:GLU:O	2.50	0.54
38:BI:72:GLN:HG3	38:BI:77:PRO:HD3	1.88	0.54
39:BJ:47:ARG:C	39:BJ:48:LEU:HD23	2.31	0.54
39:BJ:53:ALA:CB	39:BJ:86:ARG:HH11	2.18	0.54
40:BK:85:TYR:HD1	40:BK:154:TYR:CE1	2.24	0.54
41:BL:37:ARG:CD	41:BL:38:ILE:HD13	2.34	0.54
42:BM:28:VAL:C	42:BM:30:GLY:N	2.64	0.54
42:BM:49:PRO:HD3	42:BM:78:LYS:CG	2.34	0.54
43:BN:44:VAL:HG22	43:BN:66:ARG:CD	2.37	0.54
44:BO:59:TYR:O	44:BO:62:GLN:NE2	2.40	0.54
44:BO:99:GLN:HA	44:BO:105:VAL:CG1	2.37	0.54
44:BO:122:LYS:O	44:BO:123:LYS:C	2.50	0.54
48:BS:76:GLU:O	48:BS:77:ARG:C	2.49	0.54
50:BU:75:ARG:HH22	50:BU:77:VAL:CG2	2.13	0.54
51:BV:44:LEU:O	51:BV:45:SER:OG	2.21	0.54
52:BW:51:VAL:HG23	52:BW:60:VAL:CG2	2.37	0.54
53:BX:22:ARG:O	53:BX:26:ASN:OD1	2.26	0.54
53:BX:27:LYS:C	53:BX:27:LYS:CD	2.79	0.54
55:CA:10:ILE:CA	55:CA:74:ASP:H	2.16	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:69:ARG:CG	55:CA:71:ASN:CB	2.86	0.54
55:CA:205:PHE:CE1	55:CA:226:ILE:HG21	2.42	0.54
55:CA:205:PHE:CG	55:CA:230:LYS:O	2.61	0.54
55:CA:322:GLU:CD	55:CA:581:THR:CB	2.80	0.54
55:CA:538:LEU:CB	55:CA:539:THR:CB	2.85	0.54
1:AA:2:G:C4	1:AA:2902:C:N1	2.76	0.54
1:AA:60:G:N3	1:AA:74:A:O4'	2.40	0.54
1:AA:204:A:OP1	1:AA:204:A:C8	2.60	0.54
1:AA:218:A:C2	1:AA:235:U:H4'	2.43	0.54
1:AA:245:G:N2	1:AA:254:G:C1'	2.68	0.54
1:AA:267:C:OP2	1:AA:271(A):C:C5	2.60	0.54
1:AA:270(L):U:C6	1:AA:270(L):U:OP2	2.61	0.54
1:AA:273(E):U:C6	1:AA:363(B):G:N2	2.75	0.54
1:AA:500:G:H2'	1:AA:501:A:H3'	1.89	0.54
1:AA:595:C:H2'	1:AA:596:G:C8	2.41	0.54
1:AA:623:G:H2'	1:AA:624:C:C5'	2.36	0.54
1:AA:714:U:O2	1:AA:715:G:H8	1.89	0.54
1:AA:733:G:O6	1:AA:761:A:C8	2.60	0.54
1:AA:735:A:H2'	1:AA:736:C:C5'	2.37	0.54
1:AA:740:U:H2'	1:AA:741:G:O5'	2.04	0.54
1:AA:746:A:C8	1:AA:2611:U:O2'	2.58	0.54
1:AA:856:C:H4'	24:AX:69:PHE:HB3	1.89	0.54
1:AA:977:G:O2'	1:AA:978:G:H5'	2.06	0.54
1:AA:996:A:C2	1:AA:997:G:N7	2.76	0.54
1:AA:1031:G:C5	1:AA:1032:A:N7	2.75	0.54
1:AA:1050:A:C5	1:AA:2751:G:H3'	2.42	0.54
1:AA:1059:G:N2	10:AJ:130:SER:N	2.52	0.54
1:AA:1072:C:H2'	1:AA:1093:G:N1	2.21	0.54
1:AA:1080:C:C1'	10:AJ:129:GLY:HA3	2.35	0.54
1:AA:1127:A:C2	1:AA:2518:A:N3	2.76	0.54
1:AA:1201:C:N4	1:AA:1241:A:H62	2.04	0.54
1:AA:1437:C:O3'	1:AA:1517:G:H5'	2.08	0.54
1:AA:1450:C:H2'	1:AA:1451:C:OP2	2.07	0.54
1:AA:1556:C:C2	1:AA:1557:C:C5	2.96	0.54
1:AA:1698:A:O2'	1:AA:1699:G:P	2.65	0.54
1:AA:1788:C:O5'	1:AA:1788:C:H6	1.89	0.54
1:AA:1820:U:H2'	4:AD:202:LYS:NZ	2.22	0.54
1:AA:1906:G:H2'	1:AA:1907:G:H8	1.72	0.54
1:AA:2057:A:H2'	1:AA:2058:A:C8	2.38	0.54
1:AA:2093:G:H1'	1:AA:2198:A:N1	2.23	0.54
1:AA:2135:A:OP2	1:AA:2160:G:H5'	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2273:A:N7	1:AA:2274:A:C8	2.75	0.54
1:AA:2394:C:N4	1:AA:2422:A:C6	2.76	0.54
1:AA:2512:C:O5'	1:AA:2512:C:H6	1.89	0.54
1:AA:2564:A:N1	1:AA:2647:U:C4'	2.71	0.54
1:AA:2714:G:C5	1:AA:2715:C:C5	2.95	0.54
1:AA:2781:A:H3'	1:AA:2781:A:H8	1.70	0.54
1:AA:2786:U:H2'	1:AA:2787:C:H6	1.72	0.54
1:AA:2799:A:H1'	1:AA:2802:G:C6	2.42	0.54
2:AB:74:U:H2'	2:AB:75:G:C1'	2.36	0.54
3:AC:39:GLU:HB3	3:AC:178:ALA:CB	2.38	0.54
3:AC:59:ARG:CG	3:AC:60:GLY:N	2.69	0.54
4:AD:7:LYS:CD	4:AD:91:ARG:HE	2.20	0.54
4:AD:46:GLN:O	4:AD:47:GLY:C	2.50	0.54
4:AD:150:LYS:O	4:AD:152:GLY:N	2.39	0.54
4:AD:199:ALA:O	4:AD:202:LYS:N	2.40	0.54
4:AD:242:ARG:O	4:AD:244:ARG:HG2	2.08	0.54
6:AF:43:LYS:HG3	6:AF:98:SER:CA	2.37	0.54
6:AF:74:ARG:CZ	6:AF:75:HIS:HA	2.38	0.54
7:AG:18:GLU:OE1	7:AG:18:GLU:C	2.50	0.54
7:AG:76:SER:C	7:AG:78:SER:N	2.62	0.54
7:AG:82:LEU:O	7:AG:83:ARG:HG3	2.07	0.54
7:AG:125:PHE:CE2	7:AG:130:ASN:HB2	2.42	0.54
7:AG:148:MET:HG2	7:AG:151:ALA:H	1.70	0.54
8:AH:6:ARG:N	8:AH:7:LEU:HD23	2.22	0.54
10:AJ:23:VAL:CB	10:AJ:41:PHE:CE2	2.89	0.54
11:AK:99:LEU:HD12	11:AK:100:GLU:CA	2.37	0.54
12:AL:6:THR:CA	12:AL:7:TYR:HD1	2.21	0.54
12:AL:19:ILE:HB	12:AL:42:SER:O	2.07	0.54
12:AL:63:VAL:O	12:AL:64:ARG:CB	2.51	0.54
13:AM:27:HIS:CE1	19:AS:82:ARG:O	2.60	0.54
13:AM:79:ARG:O	13:AM:83:VAL:HG22	2.07	0.54
13:AM:111:ARG:HH11	13:AM:129:ALA:CB	2.20	0.54
15:AO:56:LYS:C	15:AO:58:GLY:N	2.66	0.54
16:AP:16:ASN:CG	16:AP:17:ARG:N	2.64	0.54
16:AP:62:LYS:O	16:AP:65:VAL:HG13	2.07	0.54
21:AU:32:PRO:HG3	21:AU:77:LYS:CB	2.37	0.54
21:AU:33:LYS:HB2	21:AU:33:LYS:HZ2	1.71	0.54
22:AV:53:PRO:O	22:AV:55:TYR:N	2.40	0.54
22:AV:71:LYS:H	22:AV:71:LYS:CD	2.16	0.54
23:AW:18:LEU:HB3	23:AW:23:LYS:C	2.32	0.54
23:AW:23:LYS:HA	23:AW:39:VAL:O	2.06	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:47:VAL:O	23:AW:48:PHE:C	2.50	0.54
23:AW:96:VAL:HG13	23:AW:128:VAL:HG13	1.88	0.54
23:AW:120:ILE:HB	23:AW:123:ASP:CG	2.32	0.54
23:AW:168:GLU:OE1	23:AW:169:GLU:CA	2.55	0.54
25:AY:56:LEU:N	25:AY:56:LEU:CD1	2.70	0.54
27:Aa:5:ILE:O	27:Aa:6:HIS:CB	2.55	0.54
28:Ab:15:ARG:O	28:Ab:18:ALA:N	2.40	0.54
28:Ab:30:LEU:HD23	28:Ab:39:MET:SD	2.48	0.54
32:Af:17:ILE:HB	32:Af:24:TYR:O	2.06	0.54
34:BA:232:G:C4	34:BA:233:C:C5	2.95	0.54
34:BA:378:G:H2'	34:BA:379:C:H6	1.71	0.54
34:BA:389:A:C4	34:BA:390:C:O4'	2.61	0.54
34:BA:519:C:C4	34:BA:520:A:N3	2.76	0.54
34:BA:519:C:H5'	45:BP:51:ALA:HB2	1.90	0.54
34:BA:758:G:H4'	34:BA:880:C:H4'	1.90	0.54
34:BA:822:C:C2	34:BA:823:G:C8	2.96	0.54
34:BA:855:G:O5'	34:BA:871:U:O4	2.25	0.54
34:BA:954:G:N2	34:BA:1228:C:C4	2.75	0.54
34:BA:968:A:H5''	34:BA:969:A:C5'	2.37	0.54
34:BA:1005:A:H2'	34:BA:1006:C:C5'	2.34	0.54
34:BA:1065:U:C5	34:BA:1190:G:H1'	2.42	0.54
34:BA:1138:G:H3'	34:BA:1138:G:N3	2.23	0.54
34:BA:1201:A:C2'	34:BA:1202:G:OP2	2.55	0.54
34:BA:1227:A:C5'	52:BW:81:ARG:HE	2.21	0.54
34:BA:1238:A:N7	34:BA:1303:C:H1'	2.21	0.54
34:BA:1514:C:C2	34:BA:1515:C:C5	2.95	0.54
35:BF:105:PHE:CD1	35:BF:108:ILE:HB	2.42	0.54
35:BF:163:PHE:CZ	35:BF:186:ALA:C	2.86	0.54
36:BG:12:LEU:HG	47:BR:57:ARG:HG3	1.85	0.54
36:BG:65:ALA:O	36:BG:66:VAL:HB	2.06	0.54
36:BG:134:ILE:HD12	36:BG:134:ILE:N	2.23	0.54
36:BG:193:TYR:N	36:BG:193:TYR:CD2	2.75	0.54
38:BI:16:THR:CG2	38:BI:28:PHE:HA	2.34	0.54
38:BI:106:PRO:CG	38:BI:122:GLU:OE2	2.56	0.54
39:BJ:12:PRO:CB	39:BJ:57:GLN:HE21	2.19	0.54
39:BJ:97:PHE:HE2	51:BV:62:GLU:OE2	1.91	0.54
40:BK:69:VAL:CG1	40:BK:104:LEU:HD21	2.36	0.54
41:BL:6:ILE:HD12	41:BL:7:ALA:N	2.22	0.54
44:BO:66:LEU:O	44:BO:70:LYS:HD2	2.08	0.54
45:BP:83:VAL:C	45:BP:104:VAL:HG11	2.32	0.54
46:BQ:5:ALA:CB	46:BQ:67:GLU:CD	2.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:42:ILE:HG13	47:BR:43:CYS:H	1.72	0.54
51:BV:37:VAL:CG1	51:BV:41:LYS:NZ	2.70	0.54
52:BW:9:VAL:CG1	52:BW:44:MET:CG	2.81	0.54
52:BW:44:MET:O	52:BW:62:ILE:HG21	2.08	0.54
55:CA:166:SER:HB3	55:CA:170:GLY:HA3	1.88	0.54
55:CA:374:ARG:O	55:CA:582:PRO:HB3	2.07	0.54
55:CA:389:PHE:CG	55:CA:396:LYS:CG	2.89	0.54
55:CA:491:ASN:OD1	55:CA:536:ASN:HA	2.07	0.54
1:AA:6:A:N3	1:AA:2898:U:H1'	2.23	0.54
1:AA:71:A:N3	1:AA:73:A:N6	2.54	0.54
1:AA:85:G:C4	1:AA:103:A:H2	2.25	0.54
1:AA:95:G:O3'	25:AY:40:SER:HA	2.07	0.54
1:AA:96:G:H4'	25:AY:43:HIS:CD2	2.42	0.54
1:AA:98:G:O2'	1:AA:103:A:H1'	2.07	0.54
1:AA:183:C:H1'	1:AA:433:C:C1'	2.27	0.54
1:AA:226:G:N1	1:AA:227:A:C2	2.76	0.54
1:AA:451:C:C5	1:AA:453:C:H5'	2.31	0.54
1:AA:519:U:H4'	20:AT:75:TYR:HB2	1.88	0.54
1:AA:543:C:C2	1:AA:544:C:C5	2.95	0.54
1:AA:602:G:H2'	1:AA:655:A:C6	2.42	0.54
1:AA:811:U:O2'	1:AA:812:C:OP1	2.24	0.54
1:AA:826:U:C2	1:AA:828:U:C6	2.95	0.54
1:AA:833:U:C1'	13:AM:48:PRO:HD2	2.36	0.54
1:AA:861:A:C6	1:AA:917:A:C2	2.95	0.54
1:AA:908:C:H2'	1:AA:909:A:O5'	2.07	0.54
1:AA:1164:G:H2'	1:AA:1165:U:O5'	2.07	0.54
1:AA:1225:C:N3	1:AA:1226:G:N1	2.56	0.54
1:AA:1273:U:H5''	1:AA:1646:C:H41	1.72	0.54
1:AA:1349:A:H5'	1:AA:1350:C:H5''	1.88	0.54
1:AA:1455:G:C2'	1:AA:1456:G:H5'	2.37	0.54
1:AA:1511:A:C3'	1:AA:1512:G:H5''	2.37	0.54
1:AA:1563:G:O2'	1:AA:1564:C:H5'	2.07	0.54
1:AA:1609:A:N6	1:AA:1616:A:H2	2.04	0.54
1:AA:1633:G:N7	1:AA:1635:G:N1	2.55	0.54
1:AA:1636:C:H2'	1:AA:1636:C:O2	2.06	0.54
1:AA:1655:A:N3	1:AA:1656:C:H1'	2.22	0.54
1:AA:1670:C:H1'	1:AA:1994:C:H4'	1.89	0.54
1:AA:1783:A:OP2	1:AA:1783:A:C8	2.59	0.54
1:AA:1935:G:N2	1:AA:1962:C:C2'	2.69	0.54
1:AA:2000:G:OP2	15:AO:2:ARG:HG2	2.06	0.54
1:AA:2127:G:N2	1:AA:2128:C:O2	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2190:G:C2	1:AA:2191:G:C8	2.96	0.54
1:AA:2285:C:C2	1:AA:2384:G:N2	2.75	0.54
1:AA:2285:C:O2	1:AA:2384:G:N2	2.41	0.54
1:AA:2443:C:C2	1:AA:2444:G:C8	2.95	0.54
1:AA:2553:G:C6	1:AA:2583:G:O2'	2.61	0.54
1:AA:2626:C:O2'	1:AA:2627:G:O4'	2.25	0.54
1:AA:2721:A:C2'	1:AA:2722:G:H8	2.18	0.54
1:AA:2749:A:OP2	1:AA:2751:G:OP2	2.26	0.54
1:AA:2895:U:H2'	1:AA:2896:C:H6	1.71	0.54
2:AB:29:A:C4	2:AB:56:G:N2	2.75	0.54
2:AB:58:A:H62	2:AB:59:A:N6	2.06	0.54
2:AB:59:A:C5	2:AB:60:C:C6	2.96	0.54
3:AC:163:PHE:CZ	3:AC:195:ALA:HB3	2.42	0.54
4:AD:28:GLU:N	4:AD:29:PRO:CD	2.70	0.54
4:AD:273:ARG:O	4:AD:273:ARG:CZ	2.55	0.54
5:AE:53:PRO:CG	5:AE:75:VAL:CG1	2.84	0.54
6:AF:3:GLU:OE2	6:AF:21:ALA:HA	2.08	0.54
6:AF:156:LEU:HG	6:AF:173:VAL:CG2	2.34	0.54
6:AF:200:GLU:CD	6:AF:201:VAL:H	2.14	0.54
6:AF:201:VAL:HG12	6:AF:205:ARG:NH2	2.22	0.54
7:AG:18:GLU:OE1	7:AG:19:LEU:N	2.40	0.54
7:AG:153:ARG:O	7:AG:155:MET:N	2.41	0.54
7:AG:162:THR:C	7:AG:164:GLU:N	2.61	0.54
8:AH:54:ARG:C	8:AH:56:SER:H	2.15	0.54
8:AH:85:LYS:HZ3	8:AH:142:GLY:HA2	1.70	0.54
10:AJ:71:THR:CB	10:AJ:72:PRO:CD	2.86	0.54
10:AJ:78:ILE:HG21	10:AJ:122:ALA:O	2.04	0.54
10:AJ:83:GLY:C	10:AJ:85:GLU:H	2.16	0.54
11:AK:69:GLN:OE1	11:AK:87:LEU:HD13	2.08	0.54
11:AK:74:ARG:HG2	11:AK:76:SER:HB2	1.90	0.54
11:AK:89:LYS:N	11:AK:89:LYS:HE3	2.22	0.54
12:AL:42:SER:HA	12:AL:56:ASP:HA	1.89	0.54
13:AM:77:ARG:HA	13:AM:115:LEU:HB2	1.89	0.54
14:AN:27:VAL:CG1	14:AN:104:PHE:CE2	2.91	0.54
15:AO:76:VAL:HG12	15:AO:77:ARG:N	2.22	0.54
16:AP:101:LEU:HD13	16:AP:101:LEU:O	2.07	0.54
19:AS:34:GLU:CA	19:AS:62:LEU:O	2.50	0.54
19:AS:88:ARG:HG2	19:AS:89:GLN:N	2.22	0.54
20:AT:5:ALA:O	20:AT:105:VAL:HG13	2.08	0.54
20:AT:59:VAL:HG21	20:AT:66:GLU:CG	2.37	0.54
22:AV:53:PRO:O	22:AV:54:LYS:C	2.51	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:97:ARG:O	22:AV:98:VAL:HG22	2.07	0.54
25:AY:6:GLU:CD	25:AY:6:GLU:N	2.66	0.54
28:Ab:17:ASP:N	28:Ab:17:ASP:OD1	2.37	0.54
28:Ab:46:CYS:H	28:Ab:50:GLY:HA2	1.71	0.54
29:Ac:12:GLU:CG	29:Ac:53:LYS:O	2.56	0.54
29:Ac:16:CYS:SG	29:Ac:41:PRO:HG3	2.47	0.54
30:Ad:11:LYS:HD2	30:Ad:15:THR:HG23	1.90	0.54
31:Ae:27:THR:H	31:Ae:44:LYS:HZ1	1.55	0.54
31:Ae:33:ASN:C	31:Ae:34:TRP:CG	2.83	0.54
34:BA:229:U:H2'	34:BA:230:G:H8	1.72	0.54
34:BA:265:G:C4	34:BA:267:C:C6	2.96	0.54
34:BA:294:U:O2	34:BA:295:C:C5	2.61	0.54
34:BA:486:U:N3	34:BA:487:A:C8	2.76	0.54
34:BA:591:U:H2'	34:BA:592:G:H8	1.72	0.54
34:BA:768:A:N6	34:BA:769:G:C6	2.74	0.54
34:BA:801:U:C2	34:BA:802:A:C8	2.95	0.54
34:BA:848:C:C4	34:BA:849:C:C5	2.95	0.54
34:BA:855:G:O2'	34:BA:856:C:H5'	2.08	0.54
34:BA:932:C:H3'	40:BK:3:ARG:CG	2.21	0.54
34:BA:944:G:H2'	34:BA:945:G:H5''	1.89	0.54
34:BA:983:A:O2'	34:BA:1050:G:OP2	2.22	0.54
34:BA:1134:G:C6	34:BA:1135:U:C1'	2.90	0.54
34:BA:1158:C:H1'	35:BF:133:LYS:NZ	2.14	0.54
34:BA:1342:C:H2'	34:BA:1343:G:H8	1.72	0.54
34:BA:1430:C:C2	34:BA:1431:C:C5	2.93	0.54
34:BA:1440:C:C2	34:BA:1462:G:C2	2.96	0.54
34:BA:1508:G:H2'	34:BA:1509:C:C6	2.43	0.54
35:BF:100:GLY:O	35:BF:104:ASN:ND2	2.41	0.54
36:BG:72:LYS:O	36:BG:76:VAL:CG2	2.56	0.54
36:BG:157:ILE:HG13	36:BG:164:ARG:HB3	1.89	0.54
37:BH:30:LYS:HG2	37:BH:35:ARG:CG	2.38	0.54
38:BI:11:ILE:O	38:BI:12:LEU:C	2.50	0.54
38:BI:37:ARG:NH1	38:BI:111:GLU:C	2.65	0.54
38:BI:109:ILE:HG12	38:BI:110:LEU:HD23	1.87	0.54
41:BL:82:HIS:O	41:BL:137:VAL:CG1	2.52	0.54
41:BL:112:LEU:HD11	41:BL:114:THR:HG22	1.89	0.54
42:BM:11:LYS:HB2	42:BM:108:VAL:HG12	1.88	0.54
42:BM:111:ARG:HG2	42:BM:112:LYS:N	2.21	0.54
44:BO:99:GLN:O	44:BO:105:VAL:HG21	2.07	0.54
45:BP:62:SER:C	45:BP:64:TYR:N	2.62	0.54
46:BQ:4:ILE:CD1	46:BQ:57:ARG:CB	2.83	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:103:THR:O	46:BQ:105:THR:N	2.38	0.54
47:BR:23:ARG:NH1	47:BR:29:ARG:N	2.54	0.54
47:BR:27:CYS:SG	47:BR:42:ILE:CD1	2.96	0.54
48:BS:29:VAL:HG12	48:BS:85:LEU:HD21	1.89	0.54
49:BT:81:ARG:HG2	49:BT:83:GLU:HG2	1.90	0.54
51:BV:71:LYS:O	51:BV:72:ARG:C	2.50	0.54
52:BW:30:LEU:HD12	52:BW:59:PRO:CB	2.37	0.54
52:BW:40:ILE:HD11	52:BW:71:LEU:HD23	1.88	0.54
52:BW:45:VAL:CA	52:BW:67:VAL:HG21	2.36	0.54
55:CA:8:ILE:CA	55:CA:72:ILE:CG2	2.65	0.54
55:CA:27:GLN:OE1	55:CA:28:GLN:NE2	2.41	0.54
55:CA:67:ASP:HB3	55:CA:191:VAL:HG22	1.89	0.54
55:CA:231:VAL:HG11	55:CA:273:ILE:CB	2.36	0.54
1:AA:64:A:O5'	1:AA:64:A:C8	2.60	0.54
1:AA:91:A:H2	1:AA:92:G:H5'	1.73	0.54
1:AA:141(A):C:O2'	1:AA:142:G:H5'	2.07	0.54
1:AA:161:U:O2	1:AA:161:U:H2'	2.07	0.54
1:AA:214:G:H2'	1:AA:215:G:O4'	2.07	0.54
1:AA:247:G:H1	31:Ae:8:LYS:HD2	1.72	0.54
1:AA:351:G:O2'	1:AA:352:G:C8	2.56	0.54
1:AA:462:C:C4	1:AA:468:G:C2	2.96	0.54
1:AA:507:A:H5'	1:AA:509:C:C1'	2.37	0.54
1:AA:527:C:C5	1:AA:2780:G:OP1	2.60	0.54
1:AA:542:C:H2'	1:AA:543:C:H6	1.72	0.54
1:AA:558:G:H5''	11:AK:109:LYS:CD	2.37	0.54
1:AA:748:G:OP1	20:AT:88:ARG:HD3	2.07	0.54
1:AA:763:G:C2'	1:AA:764:A:C5'	2.83	0.54
1:AA:763:G:H5'	4:AD:211:ARG:CZ	2.38	0.54
1:AA:786:C:C5'	1:AA:1780:A:H8	2.20	0.54
1:AA:892:G:H2'	1:AA:893:C:C5	2.42	0.54
1:AA:946:G:C6	1:AA:972:G:N2	2.76	0.54
1:AA:957:A:C2	1:AA:2459:A:C5'	2.91	0.54
1:AA:1174:A:H2'	1:AA:1175:U:C5'	2.20	0.54
1:AA:1183:G:O2'	1:AA:1184:G:OP2	2.25	0.54
1:AA:1348:G:N1	1:AA:1599:C:C2	2.76	0.54
1:AA:1524:G:C4	1:AA:1525:G:C8	2.95	0.54
1:AA:1540:G:C2'	1:AA:1541:U:H5'	2.36	0.54
1:AA:1613:G:N2	1:AA:1619:G:C5	2.75	0.54
1:AA:1688:U:O2	1:AA:1698:A:C5	2.60	0.54
1:AA:1818:U:O2	1:AA:1818:U:C2'	2.55	0.54
1:AA:2206:C:O2'	1:AA:2207:C:H5'	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2462:U:C4	1:AA:2463:C:N4	2.76	0.54
1:AA:2532:G:H1'	1:AA:2664:G:H1'	1.89	0.54
1:AA:2694:G:C5	1:AA:2695:C:C5	2.94	0.54
1:AA:2834:G:C4	1:AA:2879:C:C4	2.96	0.54
1:AA:2842:G:H2'	1:AA:2843:G:O4'	2.07	0.54
2:AB:61:G:C2	2:AB:62:C:N3	2.75	0.54
2:AB:73:A:C2	2:AB:74:U:C2	2.95	0.54
2:AB:79:C:O2'	2:AB:80:U:H5'	2.07	0.54
3:AC:42:GLU:O	3:AC:215:THR:O	2.24	0.54
3:AC:192:PHE:O	3:AC:196:LEU:HB2	2.08	0.54
4:AD:7:LYS:HZ2	4:AD:91:ARG:CD	2.20	0.54
4:AD:95:LEU:C	4:AD:95:LEU:CD1	2.77	0.54
4:AD:142:VAL:HB	4:AD:192:THR:O	2.08	0.54
4:AD:175:LEU:O	4:AD:182:LEU:HD23	2.08	0.54
4:AD:244:ARG:HA	4:AD:252:TRP:NE1	2.21	0.54
5:AE:109:LYS:CG	5:AE:191:PRO:HG3	2.25	0.54
5:AE:115:GLY:O	5:AE:117:MET:N	2.41	0.54
6:AF:68:LYS:O	6:AF:69:HIS:HB3	2.06	0.54
6:AF:157:VAL:O	6:AF:158:THR:HB	2.07	0.54
7:AG:9:ARG:HD2	7:AG:10:LYS:CE	2.37	0.54
7:AG:19:LEU:HA	7:AG:22:ARG:CG	2.38	0.54
8:AH:102:ALA:CA	8:AH:115:VAL:HG12	2.38	0.54
8:AH:152:ARG:HG3	8:AH:152:ARG:HH11	1.71	0.54
10:AJ:108:ALA:CA	10:AJ:109:LYS:CB	2.86	0.54
11:AK:122:VAL:C	11:AK:123:TYR:CG	2.85	0.54
12:AL:11:ALA:HB1	12:AL:97:ARG:NH2	2.22	0.54
12:AL:35:VAL:HA	12:AL:61:VAL:HG12	1.89	0.54
12:AL:106:LEU:HA	12:AL:111:PHE:CE1	2.42	0.54
13:AM:114:ILE:HB	13:AM:131:SER:H	1.73	0.54
17:AQ:105:LEU:HG	17:AQ:106:SER:N	2.23	0.54
18:AR:45:TYR:HB3	18:AR:49:HIS:CE1	2.40	0.54
19:AS:21:ARG:N	19:AS:93:GLU:OE2	2.40	0.54
19:AS:28:GLU:OE1	19:AS:94:LEU:HG	2.07	0.54
20:AT:8:ARG:CZ	20:AT:102:HIS:ND1	2.71	0.54
22:AV:14:LEU:HB2	22:AV:20:TYR:H	1.72	0.54
22:AV:74:PRO:HB3	22:AV:101:LYS:O	2.07	0.54
23:AW:25:PRO:CG	23:AW:84:GLU:O	2.56	0.54
23:AW:80:ARG:C	23:AW:81:ARG:HG3	2.32	0.54
23:AW:152:ALA:CA	23:AW:155:LEU:HD22	2.37	0.54
24:AX:50:ASN:HB3	24:AX:63:VAL:CG1	2.37	0.54
25:AY:12:SER:H	25:AY:15:GLU:CD	2.15	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:63:ARG:HB3	25:AY:63:ARG:NH1	2.22	0.54
26:AZ:44:ARG:O	26:AZ:47:VAL:N	2.40	0.54
27:Aa:56:VAL:C	27:Aa:61:ARG:CZ	2.80	0.54
27:Aa:59:PHE:CD1	27:Aa:60:GLN:HG2	2.41	0.54
30:Ad:33:ARG:CG	30:Ad:37:LYS:HD3	2.33	0.54
31:Ae:16:ILE:CG2	31:Ae:57:ARG:NH2	2.70	0.54
34:BA:46:G:C2	34:BA:396:G:C6	2.96	0.54
34:BA:141:A:O2'	34:BA:182:U:C6	2.58	0.54
34:BA:190:G:H4'	34:BA:191(A):G:OP2	2.08	0.54
34:BA:198:G:H2'	34:BA:199:G:O5'	2.08	0.54
34:BA:407:G:H5''	37:BH:115:ARG:HD2	1.90	0.54
34:BA:475:G:C2'	34:BA:476:G:C8	2.79	0.54
34:BA:511:C:O2'	34:BA:512:U:C6	2.52	0.54
34:BA:522:C:H1'	34:BA:536:C:C5'	2.37	0.54
34:BA:635:G:C6	34:BA:636:U:C4	2.96	0.54
34:BA:664:G:H22	34:BA:741:G:H22	1.54	0.54
34:BA:979:C:OP2	34:BA:980:C:C5	2.61	0.54
34:BA:1005:A:C6	34:BA:1026:G:N2	2.76	0.54
34:BA:1021:G:H2'	34:BA:1022:G:H1'	1.89	0.54
34:BA:1055:A:N7	34:BA:1206:G:C2	2.76	0.54
34:BA:1057:G:C5	34:BA:1204:A:C2	2.96	0.54
34:BA:1057:G:OP1	36:BG:155:GLY:CA	2.56	0.54
34:BA:1068:G:H2'	34:BA:1069:C:C6	2.41	0.54
34:BA:1085:U:H5''	34:BA:1086:U:C5	2.43	0.54
34:BA:1152:A:C2	34:BA:1153:C:C5	2.95	0.54
34:BA:1191:A:P	36:BG:4:LYS:NZ	2.81	0.54
34:BA:1193:G:C8	34:BA:1193:G:H3'	2.42	0.54
34:BA:1225:A:H5'	52:BW:78:ARG:CG	2.26	0.54
34:BA:1239:A:H1'	34:BA:1241:G:C5	2.42	0.54
34:BA:1395:C:C2'	34:BA:1396:A:O5'	2.55	0.54
35:BF:57:PHE:HD2	35:BF:57:PHE:C	2.15	0.54
35:BF:69:LEU:HD22	35:BF:92:TYR:N	2.22	0.54
35:BF:221:LEU:C	35:BF:221:LEU:CD1	2.75	0.54
36:BG:182:ILE:HG22	36:BG:183:ASP:N	2.23	0.54
37:BH:78:LEU:CD2	37:BH:96:LEU:HD22	2.37	0.54
37:BH:199:ASN:CG	37:BH:200:GLU:N	2.64	0.54
38:BI:79:GLU:O	38:BI:80:ILE:HG23	2.07	0.54
38:BI:122:GLU:HB3	38:BI:126:ARG:HG3	1.89	0.54
38:BI:122:GLU:O	38:BI:123:LEU:HD22	2.07	0.54
40:BK:18:TYR:O	40:BK:19:GLY:C	2.49	0.54
41:BL:67:PRO:CD	41:BL:76:PRO:HB3	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:82:HIS:CD2	41:BL:138:TRP:HE1	2.25	0.54
42:BM:11:LYS:N	42:BM:104:ARG:NH2	2.55	0.54
42:BM:22:GLY:C	42:BM:58:HIS:O	2.51	0.54
42:BM:37:PHE:HD1	42:BM:43:ALA:HA	1.72	0.54
43:BN:40:LEU:HD12	43:BN:69:ASN:CB	2.37	0.54
43:BN:65:LEU:CB	47:BR:56:VAL:HG13	2.31	0.54
43:BN:75:ILE:HG22	43:BN:76:ASN:ND2	2.22	0.54
44:BO:58:PRO:HB2	44:BO:93:GLN:CG	2.37	0.54
44:BO:80:VAL:CG2	44:BO:81:ASP:N	2.69	0.54
45:BP:45:PRO:HG2	45:BP:49:ASN:O	2.06	0.54
45:BP:59:ARG:CA	45:BP:64:TYR:O	2.51	0.54
48:BS:32:LEU:HD12	48:BS:59:MET:HG2	1.88	0.54
49:BT:6:LEU:CA	49:BT:18:ARG:O	2.56	0.54
50:BU:81:ARG:HG3	50:BU:84:LEU:CG	2.38	0.54
52:BW:6:LYS:CG	52:BW:41:VAL:HG11	2.36	0.54
53:BX:53:LEU:HD21	53:BX:92:LEU:CD1	2.37	0.54
55:CA:59:LYS:HB2	55:CA:59:LYS:HZ2	1.72	0.54
55:CA:180:ALA:CB	55:CA:181:GLU:CB	2.85	0.54
55:CA:205:PHE:CZ	55:CA:207:MET:CB	2.86	0.54
55:CA:208:GLN:HB2	55:CA:227:LYS:HE2	1.88	0.54
55:CA:245:LYS:HB2	55:CA:291:THR:HG21	1.90	0.54
55:CA:318:PHE:HA	55:CA:321:LYS:HE3	1.88	0.54
55:CA:357:ARG:HA	55:CA:385:PRO:HG3	1.90	0.54
55:CA:379:GLU:CG	55:CA:581:THR:HB	2.33	0.54
55:CA:422:ARG:HD2	55:CA:480:VAL:HG23	1.90	0.54
1:AA:120:U:C1'	1:AA:149:A:N3	2.71	0.54
1:AA:307:G:H2'	1:AA:309:G:C8	2.43	0.54
1:AA:343:C:C2'	1:AA:344:G:C5'	2.75	0.54
1:AA:463:G:N2	1:AA:467:G:C5	2.76	0.54
1:AA:509:C:H2'	1:AA:510:C:OP2	2.08	0.54
1:AA:606:U:O5'	1:AA:606:U:C6	2.52	0.54
1:AA:779:U:OP1	4:AD:50:THR:HB	2.07	0.54
1:AA:832:G:H8	1:AA:944:G:H21	1.56	0.54
1:AA:974:G:C3'	1:AA:974(A):C:H5''	2.16	0.54
1:AA:988:A:O3'	26:AZ:10:LYS:CE	2.56	0.54
1:AA:1047:G:N3	1:AA:1110:G:C3'	2.68	0.54
1:AA:1055:G:H4'	9:AI:32:LEU:O	2.08	0.54
1:AA:1165:U:C2'	1:AA:1166:C:C6	2.91	0.54
1:AA:1175:U:H5'	1:AA:1176:G:P	2.47	0.54
1:AA:1287:A:H5'	15:AO:104:ARG:CG	2.38	0.54
1:AA:1291:C:H2'	1:AA:1292:U:C6	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1566:A:C5	4:AD:215:LEU:HD22	2.42	0.54
1:AA:1653:G:O6	15:AO:11:ASN:HA	2.08	0.54
1:AA:1667:G:O5'	12:AL:7:TYR:CE1	2.61	0.54
1:AA:1684:C:C4	1:AA:1705:G:C2	2.96	0.54
1:AA:1806:C:C2	1:AA:1807:G:C8	2.96	0.54
1:AA:1819:A:O2'	1:AA:1820:U:C5'	2.55	0.54
1:AA:1826:G:C2'	1:AA:1827:C:H5'	2.33	0.54
1:AA:1847:A:C2	1:AA:1851:U:O4	2.61	0.54
1:AA:2033:A:N1	1:AA:2036:C:C5	2.75	0.54
1:AA:2118:U:OP1	1:AA:2147:G:N1	2.40	0.54
1:AA:2265:U:O2	1:AA:2266:A:N7	2.41	0.54
1:AA:2564:A:C6	1:AA:2647:U:C4'	2.91	0.54
1:AA:2612:C:O2'	28:Ab:4:HIS:HB3	2.07	0.54
1:AA:2703:C:C2'	1:AA:2704:C:O5'	2.56	0.54
1:AA:2816:C:C2	1:AA:2817:G:C8	2.96	0.54
1:AA:2825:C:H42	1:AA:2826:A:N6	2.05	0.54
1:AA:2828:C:N3	1:AA:2829:C:C5	2.76	0.54
1:AA:2850:A:C4	1:AA:2869:G:H4'	2.42	0.54
1:AA:2882:A:C2	1:AA:2883:A:C8	2.95	0.54
2:AB:5:C:H2'	2:AB:6:C:C6	2.43	0.54
2:AB:56:G:H4'	2:AB:57:A:H5''	1.89	0.54
3:AC:100:ILE:HD13	3:AC:123:VAL:N	2.23	0.54
4:AD:7:LYS:HG3	4:AD:26:LYS:C	2.32	0.54
4:AD:45:ASN:C	4:AD:46:GLN:CG	2.81	0.54
4:AD:50:THR:O	4:AD:51:VAL:HG22	2.07	0.54
6:AF:11:VAL:HG22	6:AF:126:VAL:HG12	1.89	0.54
6:AF:122:LYS:HE3	6:AF:192:LEU:HB3	1.89	0.54
7:AG:40:ASN:O	7:AG:156:ASP:O	2.25	0.54
7:AG:57:ALA:H	7:AG:68:PRO:HB2	1.73	0.54
8:AH:7:LEU:HD13	8:AH:65:HIS:CE1	2.42	0.54
9:AI:38:HIS:O	9:AI:42:GLN:CB	2.56	0.54
10:AJ:23:VAL:HG13	10:AJ:27:LEU:HD12	1.90	0.54
11:AK:24:GLY:O	11:AK:27:ALA:N	2.40	0.54
11:AK:33:LEU:HD13	11:AK:34:LEU:CG	2.35	0.54
12:AL:20:MET:O	12:AL:41:ALA:HB1	2.07	0.54
13:AM:6:LEU:C	13:AM:7:ARG:HG3	2.32	0.54
13:AM:36:LYS:HZ2	13:AM:42:SER:CB	2.20	0.54
14:AN:27:VAL:CG1	14:AN:102:VAL:HG21	2.38	0.54
14:AN:45:GLN:C	14:AN:48:GLU:HG2	2.32	0.54
14:AN:122:GLY:O	14:AN:124:LYS:C	2.50	0.54
15:AO:50:HIS:CE1	15:AO:54:LEU:HD11	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:57:PHE:O	17:AQ:58:ASN:HB3	2.08	0.54
18:AR:113:ALA:HA	18:AR:116:ALA:HB2	1.90	0.54
19:AS:3:ALA:CB	19:AS:44:LYS:NZ	2.70	0.54
19:AS:6:LYS:HD3	19:AS:10:LYS:CB	2.37	0.54
19:AS:12:TYR:CD1	19:AS:14:VAL:HG23	2.43	0.54
19:AS:66:ARG:HE	19:AS:95:LEU:CB	2.12	0.54
20:AT:53:SER:O	20:AT:54:ALA:C	2.49	0.54
20:AT:76:VAL:CG2	20:AT:77:ASP:N	2.68	0.54
21:AU:73:ARG:HH22	21:AU:74:PRO:C	2.16	0.54
21:AU:89:ILE:HG22	21:AU:89:ILE:O	2.08	0.54
23:AW:100:VAL:HG23	23:AW:102:LEU:CD2	2.37	0.54
27:Aa:57:GLU:O	27:Aa:61:ARG:HG3	2.06	0.54
29:Ac:17:LYS:HZ2	29:Ac:50:ARG:HG3	1.73	0.54
30:Ad:22:MET:C	30:Ad:28:ARG:HG2	2.33	0.54
34:BA:9:G:C2	34:BA:26:A:C2	2.96	0.54
34:BA:151:A:N6	34:BA:152:A:H2	2.06	0.54
34:BA:279:A:C1'	34:BA:281:G:C4	2.90	0.54
34:BA:309:G:O2'	34:BA:310:G:O4'	2.23	0.54
34:BA:321:A:H2'	34:BA:322:C:C6	2.43	0.54
34:BA:362:G:H2'	34:BA:364:A:OP2	2.07	0.54
34:BA:450:G:H5'	49:BT:43:LYS:HZ2	1.73	0.54
34:BA:557:G:H2'	34:BA:558:G:N9	2.23	0.54
34:BA:595:G:N7	34:BA:641:U:C2	2.75	0.54
34:BA:607:A:C4	34:BA:608:A:C8	2.96	0.54
34:BA:622:A:H2'	34:BA:623:C:C5'	2.37	0.54
34:BA:652:U:O4	34:BA:752:G:H2'	2.07	0.54
34:BA:667:G:H5''	48:BS:51:HIS:CE1	2.43	0.54
34:BA:974:A:H5'	34:BA:975:A:P	2.48	0.54
34:BA:1054:C:C6	34:BA:1054:C:C3'	2.89	0.54
34:BA:1055:A:N1	34:BA:1056:U:H1'	2.23	0.54
34:BA:1104:G:C4	34:BA:1105:A:C8	2.96	0.54
34:BA:1318:A:N9	52:BW:37:ARG:CB	2.68	0.54
34:BA:1320:C:N3	52:BW:75:ALA:HB3	2.22	0.54
34:BA:1405:G:C4	34:BA:1406:U:C5	2.96	0.54
34:BA:1440:C:N3	34:BA:1462:G:C2	2.75	0.54
34:BA:1452:C:H5'	34:BA:1453:G:N3	2.22	0.54
34:BA:1454:G:O2'	34:BA:1455:G:C8	2.55	0.54
35:BF:46:LYS:HA	35:BF:46:LYS:CE	2.34	0.54
35:BF:47:THR:CG2	35:BF:51:LEU:HD21	2.37	0.54
35:BF:75:LYS:NZ	35:BF:75:LYS:CA	2.69	0.54
36:BG:40:ARG:HA	36:BG:43:LEU:CD1	2.33	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:132:ARG:C	36:BG:136:GLN:HE21	2.15	0.54
36:BG:142:MET:HB3	36:BG:149:ALA:HB2	1.90	0.54
36:BG:164:ARG:CG	36:BG:165:THR:N	2.71	0.54
37:BH:107:ARG:CD	37:BH:174:LEU:HD11	2.37	0.54
37:BH:146:ILE:O	37:BH:146:ILE:CD1	2.56	0.54
38:BI:73:ASN:HD22	38:BI:73:ASN:C	2.16	0.54
39:BJ:48:LEU:HB3	51:BV:78:LEU:CD2	2.28	0.54
40:BK:5:ARG:HB3	40:BK:5:ARG:HH11	1.68	0.54
40:BK:49:ILE:HD12	40:BK:49:ILE:H	1.72	0.54
40:BK:69:VAL:C	40:BK:138:LYS:HD2	2.32	0.54
41:BL:65:TYR:HA	41:BL:79:VAL:HG23	1.88	0.54
42:BM:45:ALA:HB3	42:BM:74:ILE:HG21	1.88	0.54
43:BN:48:THR:HG23	43:BN:61:GLU:C	2.33	0.54
45:BP:24:VAL:HG13	45:BP:26:ALA:N	2.23	0.54
46:BQ:25:ILE:HG23	46:BQ:29:ARG:HB3	1.90	0.54
46:BQ:86:CYS:O	52:BW:74:PHE:HA	2.07	0.54
48:BS:44:LYS:O	48:BS:46:HIS:N	2.40	0.54
49:BT:57:ARG:O	49:BT:58:TYR:C	2.48	0.54
49:BT:61:SER:OG	49:BT:62:VAL:N	2.38	0.54
51:BV:81:PHE:O	51:BV:82:THR:HG22	2.07	0.54
52:BW:3:ARG:HG2	52:BW:3:ARG:HH21	1.72	0.54
53:BX:83:ARG:HA	53:BX:86:ARG:CD	2.38	0.54
55:CA:68:TYR:N	55:CA:68:TYR:CD1	2.76	0.54
55:CA:91:MET:CE	55:CA:225:ARG:C	2.81	0.54
55:CA:209:ILE:O	55:CA:209:ILE:HG22	2.07	0.54
1:AA:188:G:OP2	27:Aa:13:ARG:NH2	2.40	0.54
1:AA:460:A:C8	1:AA:461:C:C5	2.96	0.54
1:AA:511:U:H5	1:AA:512:G:C2	2.26	0.54
1:AA:522:G:H2'	1:AA:523:C:C6	2.43	0.54
1:AA:527:C:H2'	11:AK:114:ARG:NH1	2.23	0.54
1:AA:636:G:C4'	1:AA:638:G:O2'	2.56	0.54
1:AA:641:C:O2'	1:AA:642:G:H5'	2.06	0.54
1:AA:728:G:C6	1:AA:762:U:C3'	2.90	0.54
1:AA:945:A:C2'	1:AA:946:G:O5'	2.55	0.54
1:AA:1085:A:H1'	1:AA:1086:A:O4'	2.07	0.54
1:AA:1401:G:C6	1:AA:1402:C:C4	2.95	0.54
1:AA:1497:U:O4	1:AA:1577:C:H4'	2.08	0.54
1:AA:1534:G:O5'	1:AA:1534:G:H8	1.91	0.54
1:AA:1621:U:H3'	1:AA:1621:U:C6	2.43	0.54
1:AA:1769:G:H2'	1:AA:1770:G:C8	2.42	0.54
1:AA:1818:U:O4	4:AD:67:PHE:CE1	2.61	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1820:U:C2'	4:AD:202:LYS:CG	2.83	0.54
1:AA:2049:G:C2'	1:AA:2050:C:O5'	2.55	0.54
1:AA:2126:A:H4'	1:AA:2127:G:O5'	2.08	0.54
1:AA:2127:G:C6	1:AA:2162:G:C6	2.95	0.54
1:AA:2157:G:OP2	1:AA:2157:G:N3	2.41	0.54
1:AA:2523:G:C1'	1:AA:2765:A:N7	2.71	0.54
1:AA:2570:G:N2	1:AA:2571:C:N1	2.54	0.54
1:AA:2630:G:H1	1:AA:2789:C:H42	1.55	0.54
1:AA:2674:G:C6	1:AA:2675:A:C6	2.95	0.54
1:AA:2686:G:O2'	1:AA:2687:U:C5'	2.56	0.54
1:AA:2703:C:H2'	1:AA:2704:C:O5'	2.08	0.54
1:AA:2746:U:C4'	8:AH:139:GLN:HA	2.38	0.54
1:AA:2779:U:C6	1:AA:2779:U:C3'	2.91	0.54
1:AA:2788:C:C2	1:AA:2789:C:C2	2.96	0.54
1:AA:2844:G:H3'	1:AA:2845:G:H8	1.73	0.54
4:AD:5:LYS:HD3	4:AD:31:LYS:NZ	2.23	0.54
4:AD:111:LEU:HB3	4:AD:115:GLN:CD	2.32	0.54
4:AD:240:ALA:O	4:AD:241:PRO:O	2.26	0.54
5:AE:5:LEU:HD23	5:AE:6:GLY:C	2.31	0.54
5:AE:38:THR:CB	5:AE:39:PRO:HD3	2.36	0.54
5:AE:85:ASN:HD22	5:AE:85:ASN:N	2.04	0.54
5:AE:91:VAL:HG13	5:AE:92:THR:H	1.73	0.54
5:AE:103:ASP:C	5:AE:104:VAL:CG2	2.81	0.54
5:AE:136:ARG:C	5:AE:137:HIS:CG	2.86	0.54
7:AG:127:GLY:O	7:AG:128:ARG:CB	2.55	0.54
7:AG:165:THR:HG22	7:AG:167:GLU:OE1	2.07	0.54
8:AH:9:ILE:HD13	8:AH:73:ALA:HB2	1.87	0.54
8:AH:103:LEU:O	8:AH:104:GLU:O	2.26	0.54
8:AH:105:LEU:HD23	8:AH:105:LEU:H	1.69	0.54
10:AJ:87:GLY:C	10:AJ:89:HIS:H	2.16	0.54
11:AK:23:LEU:HD12	11:AK:63:THR:N	2.21	0.54
11:AK:51:PHE:CD1	11:AK:119:ARG:HB2	2.43	0.54
12:AL:35:VAL:HG11	12:AL:64:ARG:HD3	1.88	0.54
12:AL:43:VAL:HG22	12:AL:44:LYS:N	2.22	0.54
13:AM:99:LEU:CD2	13:AM:101:VAL:HG13	2.35	0.54
13:AM:117:GLU:OE1	13:AM:117:GLU:N	2.34	0.54
14:AN:22:LYS:CD	14:AN:23:GLY:N	2.70	0.54
14:AN:110:THR:O	14:AN:110:THR:HG22	2.07	0.54
15:AO:97:VAL:CA	15:AO:114:VAL:HG22	2.32	0.54
16:AP:56:LEU:HB3	16:AP:59:LYS:HZ2	1.73	0.54
17:AQ:110:ILE:HD12	17:AQ:113:LYS:CE	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:55:ARG:CB	18:AR:58:ARG:HE	2.14	0.54
19:AS:3:ALA:O	19:AS:13:ARG:HA	2.07	0.54
19:AS:15:GLU:CD	19:AS:16:PRO:CD	2.79	0.54
20:AT:21:VAL:HG13	20:AT:75:TYR:CD1	2.42	0.54
21:AU:30:VAL:HG23	21:AU:77:LYS:HD3	1.89	0.54
21:AU:73:ARG:HH11	21:AU:73:ARG:CB	2.12	0.54
22:AV:84:ARG:C	22:AV:84:ARG:CD	2.76	0.54
23:AW:37:VAL:C	23:AW:38:TYR:HD1	2.16	0.54
23:AW:39:VAL:CG1	23:AW:41:LEU:HD23	2.38	0.54
23:AW:57:ILE:C	23:AW:58:VAL:CG2	2.80	0.54
23:AW:80:ARG:O	23:AW:81:ARG:HG3	2.07	0.54
23:AW:114:GLY:H	23:AW:145:GLU:CD	2.14	0.54
24:AX:59:LEU:HD21	24:AX:79:VAL:HG21	1.90	0.54
24:AX:72:ARG:HD3	24:AX:75:LEU:HD22	1.89	0.54
25:AY:6:GLU:O	25:AY:7:GLU:C	2.48	0.54
25:AY:13:PRO:O	25:AY:17:GLU:HG3	2.08	0.54
27:Aa:8:LYS:HG2	27:Aa:9:LEU:N	2.12	0.54
29:Ac:16:CYS:HA	29:Ac:49:HIS:O	2.07	0.54
29:Ac:22:ALA:C	29:Ac:23:THR:HG23	2.32	0.54
30:Ad:43:THR:O	30:Ad:46:VAL:CB	2.54	0.54
32:Af:22:ARG:HB3	32:Af:24:TYR:CE1	2.42	0.54
33:Ag:335:UNK:CB	33:Ag:345:UNK:C	2.86	0.54
34:BA:27:G:N1	34:BA:557:G:C4	2.75	0.54
34:BA:450:G:H5''	34:BA:451:A:H3'	1.90	0.54
34:BA:476:G:O2'	34:BA:477:G:H5'	2.06	0.54
34:BA:781:A:O2'	34:BA:782:A:OP1	2.24	0.54
34:BA:944:G:C3'	34:BA:945:G:C5'	2.82	0.54
34:BA:1066:C:H5	34:BA:1067:A:H62	1.55	0.54
34:BA:1068:G:O6	34:BA:1108:G:C2	2.61	0.54
34:BA:1155:G:H22	34:BA:1179:A:N6	2.04	0.54
34:BA:1251:A:C2	34:BA:1354:C:H1'	2.43	0.54
34:BA:1350:A:P	42:BM:118:LYS:HG3	2.48	0.54
34:BA:1406:U:O2	34:BA:1406:U:C2'	2.51	0.54
34:BA:1411:C:N3	34:BA:1412:C:C5	2.75	0.54
34:BA:1452:C:H4'	34:BA:1453:G:H5''	1.89	0.54
34:BA:1513:A:N1	34:BA:1523:G:C6	2.76	0.54
35:BF:16:HIS:O	35:BF:204:ASN:CB	2.55	0.54
35:BF:48:MET:O	35:BF:49:GLU:C	2.50	0.54
35:BF:52:GLU:OE1	35:BF:53:ARG:N	2.41	0.54
35:BF:69:LEU:O	35:BF:162:ILE:HB	2.06	0.54
35:BF:177:ALA:O	35:BF:178:ARG:C	2.49	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:110:ASN:CG	36:BG:144:SER:OG	2.51	0.54
38:BI:80:ILE:HA	38:BI:81:GLU:OE2	2.07	0.54
38:BI:102:ALA:CB	38:BI:106:PRO:CB	2.79	0.54
38:BI:105:VAL:HG12	38:BI:106:PRO:CD	2.36	0.54
41:BL:95:VAL:CG1	41:BL:133:LEU:HD11	2.37	0.54
42:BM:15:ALA:HB3	42:BM:76:ALA:HB3	1.88	0.54
42:BM:70:LYS:H	42:BM:70:LYS:CD	2.20	0.54
42:BM:114:TYR:CE1	43:BN:60:ARG:NH1	2.74	0.54
45:BP:34:ARG:HA	45:BP:84:LEU:HB2	1.89	0.54
46:BQ:4:ILE:HD12	46:BQ:57:ARG:CB	2.34	0.54
49:BT:12:LYS:O	49:BT:13:HIS:HB2	2.08	0.54
50:BU:3:LYS:HD3	50:BU:60:ILE:HD11	1.90	0.54
50:BU:29:HIS:HE1	50:BU:31:LEU:HB3	1.72	0.54
50:BU:40:LYS:HB3	50:BU:42:TYR:HE1	1.73	0.54
50:BU:51:TYR:CD2	50:BU:57:VAL:HG11	2.43	0.54
55:CA:62:ALA:HA	55:CA:187:TYR:HE2	1.68	0.54
55:CA:206:GLN:HE21	55:CA:227:LYS:HB3	1.73	0.54
55:CA:447:GLY:CA	55:CA:480:VAL:CG2	2.83	0.54
1:AA:161:U:H3	1:AA:164:U:H3	1.50	0.54
1:AA:218:A:N1	1:AA:235:U:O2'	2.25	0.54
1:AA:252:G:O6	31:Ae:8:LYS:NZ	2.27	0.54
1:AA:270(Z):U:O2'	1:AA:271(A):C:OP1	2.23	0.54
1:AA:303:U:C2	1:AA:315:G:N2	2.76	0.54
1:AA:310:A:OP1	22:AV:16:ALA:HB1	2.08	0.54
1:AA:498:G:C2'	1:AA:499:U:H5'	2.38	0.54
1:AA:522:G:C6	1:AA:523:C:C4	2.96	0.54
1:AA:530:G:O2'	1:AA:531:C:O3'	2.25	0.54
1:AA:581:C:H5''	18:AR:32:PHE:CD1	2.43	0.54
1:AA:623:G:P	13:AM:105:LEU:HD11	2.48	0.54
1:AA:665:C:OP2	1:AA:665:C:C6	2.58	0.54
1:AA:764:A:C4	1:AA:781:A:N6	2.76	0.54
1:AA:780:G:C5	1:AA:782:A:N6	2.76	0.54
1:AA:781:A:C8	4:AD:220:HIS:CE1	2.96	0.54
1:AA:855:G:H21	24:AX:27:GLU:HB2	1.71	0.54
1:AA:914:C:H5	1:AA:915:C:C5	2.24	0.54
1:AA:967:C:H2'	1:AA:968:G:H8	1.72	0.54
1:AA:977:G:H4'	1:AA:1155:A:H5''	1.90	0.54
1:AA:1129:A:N3	1:AA:2516:G:H1'	2.23	0.54
1:AA:1213:A:C6	1:AA:1237:A:H1'	2.42	0.54
1:AA:1342:A:C1'	1:AA:1345:C:N4	2.68	0.54
1:AA:1343:G:O6	1:AA:1404:C:N3	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1432:C:O2'	1:AA:1433:U:H5'	2.08	0.54
1:AA:1599:C:OP2	21:AU:36:LYS:NZ	2.41	0.54
1:AA:1696:G:H2'	1:AA:1697:G:O4'	2.08	0.54
1:AA:1781:C:O2'	1:AA:2609:U:O4	2.16	0.54
1:AA:1935:G:O2'	1:AA:1936:A:OP2	2.25	0.54
1:AA:1939:U:H2'	1:AA:1940:U:OP1	2.07	0.54
1:AA:1952:A:C5	1:AA:1953:A:N1	2.76	0.54
1:AA:2004:G:C5	1:AA:2005:A:C5	2.96	0.54
1:AA:2074:U:HO2'	1:AA:2598:A:H1'	1.72	0.54
1:AA:2095:C:H2'	1:AA:2096:U:O4'	2.08	0.54
1:AA:2163:C:H2'	1:AA:2164:C:H5'	1.88	0.54
1:AA:2166:G:H2'	1:AA:2167:U:C6	2.43	0.54
1:AA:2239:G:H3'	1:AA:2240:C:C5'	2.17	0.54
1:AA:2266:A:H5'	1:AA:2267:A:C4	2.42	0.54
1:AA:2357:U:OP2	1:AA:2357:U:C6	2.60	0.54
1:AA:2510:C:N4	1:AA:2511:U:C4	2.76	0.54
1:AA:2574:G:H2'	1:AA:2575:C:C6	2.43	0.54
1:AA:2615:U:H2'	1:AA:2616:C:C6	2.39	0.54
1:AA:2699:C:C2'	1:AA:2700:C:H5'	2.37	0.54
1:AA:2704:C:H2'	1:AA:2705:A:N9	2.23	0.54
1:AA:2734:A:H2'	1:AA:2735:G:O4'	2.07	0.54
1:AA:2751:G:H2'	1:AA:2751:G:N3	2.23	0.54
1:AA:2808:U:H2'	1:AA:2808:U:O2	2.06	0.54
2:AB:7:G:O2'	2:AB:8:U:OP1	2.25	0.54
2:AB:97:G:H2'	2:AB:98:G:C5'	2.34	0.54
3:AC:29:VAL:HG21	3:AC:41:VAL:CG1	2.37	0.54
3:AC:83:ILE:HD11	3:AC:95:GLY:HA2	1.88	0.54
4:AD:167:GLY:C	4:AD:174:ILE:HD13	2.33	0.54
4:AD:183:ARG:HG2	4:AD:268:ARG:CD	2.37	0.54
5:AE:7:VAL:HG13	5:AE:194:GLY:C	2.31	0.54
5:AE:7:VAL:CG1	5:AE:196:VAL:HG23	2.32	0.54
5:AE:27:LEU:HD13	5:AE:76:ARG:NH2	2.23	0.54
5:AE:151:TYR:OH	5:AE:152:LYS:HG3	2.08	0.54
5:AE:152:LYS:HE2	11:AK:77:GLY:O	2.08	0.54
5:AE:176:ILE:CD1	5:AE:179:GLU:O	2.53	0.54
7:AG:86:MET:H	7:AG:87:PRO:HD3	1.71	0.54
7:AG:163:ALA:CB	7:AG:169:ALA:HA	2.25	0.54
8:AH:35:VAL:CG2	8:AH:75:ALA:HB2	2.38	0.54
8:AH:87:LEU:O	8:AH:132:ARG:HB3	2.08	0.54
8:AH:149:ARG:CA	8:AH:162:ILE:HD13	2.37	0.54
11:AK:47:ALA:O	11:AK:48:MET:C	2.51	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:98:VAL:O	11:AK:99:LEU:C	2.50	0.54
12:AL:10:VAL:CG2	12:AL:12:ASP:OD1	2.55	0.54
13:AM:72:PRO:CB	13:AM:111:ARG:CB	2.74	0.54
13:AM:76:LYS:HG3	13:AM:77:ARG:N	2.22	0.54
13:AM:99:LEU:HD23	13:AM:100:LEU:N	2.23	0.54
14:AN:42:ILE:CD1	14:AN:43:THR:O	2.55	0.54
15:AO:65:LEU:O	15:AO:68:ARG:HB3	2.08	0.54
15:AO:87:TYR:O	15:AO:89:ASP:N	2.41	0.54
17:AQ:17:THR:C	17:AQ:19:LEU:N	2.64	0.54
18:AR:68:ALA:O	18:AR:72:HIS:ND1	2.38	0.54
19:AS:40:LEU:CA	19:AS:51:VAL:HG13	2.38	0.54
20:AT:16:LYS:HA	20:AT:19:LEU:HD12	1.88	0.54
20:AT:76:VAL:CG2	20:AT:102:HIS:O	2.56	0.54
21:AU:7:VAL:HB	25:AY:28:MET:HG2	1.89	0.54
26:AZ:39:ASP:C	26:AZ:44:ARG:HD3	2.33	0.54
26:AZ:52:HIS:NE2	26:AZ:53:LEU:HD21	2.22	0.54
29:Ac:25:LYS:C	29:Ac:26:ASN:ND2	2.66	0.54
31:Ae:15:LYS:HE2	31:Ae:15:LYS:HA	1.89	0.54
31:Ae:26:LYS:CB	31:Ae:44:LYS:HZ1	2.21	0.54
34:BA:88:C:H2'	34:BA:89:U:OP2	2.07	0.54
34:BA:235:C:OP1	50:BU:70:ARG:HG3	2.07	0.54
34:BA:251:G:C2	34:BA:266:G:O6	2.61	0.54
34:BA:269:C:H2'	34:BA:270:A:C8	2.43	0.54
34:BA:328:C:H3'	34:BA:328:C:O2	2.08	0.54
34:BA:540:G:O6	34:BA:541:G:C6	2.60	0.54
34:BA:580:U:H2'	34:BA:581:G:O4'	2.07	0.54
34:BA:597:G:C5	34:BA:644:G:C2	2.96	0.54
34:BA:703:G:O5'	34:BA:703:G:C8	2.61	0.54
34:BA:752:G:OP2	34:BA:752:G:H8	1.90	0.54
34:BA:763:G:H2'	34:BA:764:C:O5'	2.07	0.54
34:BA:821:G:O2'	34:BA:822:C:C5'	2.55	0.54
34:BA:900:A:N7	34:BA:901:A:N7	2.56	0.54
34:BA:945:G:N2	34:BA:1337:G:C2	2.75	0.54
34:BA:1026:G:N7	34:BA:1027:C:C6	2.75	0.54
34:BA:1041:A:C2	34:BA:1042:G:C8	2.96	0.54
34:BA:1342:C:O2'	42:BM:124:GLN:CB	2.53	0.54
34:BA:1448:C:C2	34:BA:1459:C:O2	2.60	0.54
35:BF:115:LEU:HD22	35:BF:145:LEU:HG	1.88	0.54
35:BF:175:ARG:HD2	35:BF:179:LYS:CE	2.38	0.54
35:BF:217:ARG:O	35:BF:220:ASP:CB	2.52	0.54
36:BG:18:TRP:CZ2	47:BR:57:ARG:HB2	2.43	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:142:MET:SD	36:BG:146:ALA:HB3	2.48	0.54
37:BH:161:ASN:O	37:BH:165:MET:HB3	2.08	0.54
38:BI:33:VAL:CG2	38:BI:43:LEU:HD12	2.32	0.54
38:BI:140:ARG:HB2	38:BI:140:ARG:CZ	2.37	0.54
38:BI:141:GLN:OE1	38:BI:141:GLN:CA	2.55	0.54
39:BJ:79:LEU:C	39:BJ:81:ILE:N	2.60	0.54
41:BL:41:ARG:HB3	41:BL:41:ARG:CZ	2.38	0.54
41:BL:69:ARG:HG3	41:BL:69:ARG:HH11	1.72	0.54
46:BQ:25:ILE:HD11	46:BQ:66:LEU:CD2	2.36	0.54
49:BT:39:TYR:CD1	49:BT:39:TYR:C	2.85	0.54
55:CA:12:ALA:O	55:CA:109:THR:CG2	2.45	0.54
55:CA:64:ILE:HD11	55:CA:187:TYR:CA	2.34	0.54
55:CA:157:GLN:O	55:CA:159:ASP:CB	2.50	0.54
55:CA:290:ASP:C	55:CA:292:GLN:H	2.13	0.54
55:CA:400:TYR:H	55:CA:469:PHE:HA	1.70	0.54
1:AA:108:U:H2'	1:AA:109:G:H8	1.71	0.54
1:AA:112:U:H3'	1:AA:113:G:C4'	2.38	0.54
1:AA:154:G:N2	1:AA:155:C:C2	2.76	0.54
1:AA:201:C:C2'	1:AA:202:U:H5'	2.37	0.54
1:AA:270:A:OP2	1:AA:270(X):G:N2	2.37	0.54
1:AA:270(X):G:O3'	1:AA:272:G:H4'	2.08	0.54
1:AA:412:A:H2'	1:AA:413:C:C5'	2.38	0.54
1:AA:487:C:H3'	1:AA:487:C:C6	2.42	0.54
1:AA:556:G:C4	1:AA:557:U:C5	2.94	0.54
1:AA:586:A:OP1	6:AF:89:VAL:HG23	2.08	0.54
1:AA:837:C:O2'	1:AA:838:C:H5'	2.08	0.54
1:AA:1068:G:C2	1:AA:1069:A:N6	2.75	0.54
1:AA:1113:U:O5'	1:AA:1113:U:C6	2.55	0.54
1:AA:1353:A:H2'	1:AA:1354:A:O4'	2.07	0.54
1:AA:1477:A:H2'	1:AA:1478:G:H1'	1.90	0.54
1:AA:1555:G:H2'	1:AA:1556:C:C5	2.37	0.54
1:AA:1565:C:C4	1:AA:1567:A:H1'	2.42	0.54
1:AA:1642:G:C2	1:AA:1643:G:C8	2.95	0.54
1:AA:1650:G:C2	1:AA:1651:G:N9	2.75	0.54
1:AA:1656:C:H5'	5:AE:136:ARG:NH2	2.23	0.54
1:AA:1703:G:H2'	1:AA:1704:G:C5'	2.38	0.54
1:AA:1754:C:H2'	1:AA:1755:A:C1'	2.38	0.54
1:AA:1759:A:H5'	1:AA:2715:C:H1'	1.88	0.54
1:AA:1764:G:H2'	1:AA:1765:C:O5'	2.08	0.54
1:AA:1784:A:C8	1:AA:1981:A:C5	2.96	0.54
1:AA:1790:C:P	4:AD:220:HIS:HB3	2.48	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1818:U:C5	4:AD:156:ALA:HB3	2.42	0.54
1:AA:2160:G:O2'	1:AA:2161:C:O4'	2.26	0.54
1:AA:2183:C:O2	1:AA:2183:C:H2'	2.08	0.54
1:AA:2626:C:H2'	1:AA:2627:G:O4'	2.08	0.54
1:AA:2786:U:O4'	5:AE:65:GLY:HA2	2.06	0.54
3:AC:126:LYS:O	3:AC:130:ILE:HD13	2.07	0.54
3:AC:131:LEU:O	3:AC:134:ARG:HB2	2.08	0.54
4:AD:17:THR:C	4:AD:19:ALA:N	2.58	0.54
4:AD:29:PRO:CB	4:AD:31:LYS:NZ	2.70	0.54
4:AD:79:VAL:HG11	4:AD:113:VAL:HA	1.89	0.54
4:AD:90:ALA:C	4:AD:91:ARG:NH1	2.66	0.54
4:AD:91:ARG:NH2	4:AD:198:ASN:CG	2.66	0.54
5:AE:73:GLU:N	5:AE:74:PRO:HD3	2.22	0.54
5:AE:92:THR:HG23	5:AE:96:PHE:N	2.22	0.54
5:AE:121:ASN:O	5:AE:122:PHE:O	2.25	0.54
5:AE:147:PRO:HD2	5:AE:148:GLY:H	1.72	0.54
6:AF:78:ILE:CD1	6:AF:79:GLY:H	2.20	0.54
6:AF:156:LEU:O	6:AF:176:LEU:O	2.26	0.54
6:AF:182:ASN:OD1	6:AF:182:ASN:O	2.25	0.54
8:AH:157:TYR:CD1	8:AH:157:TYR:C	2.85	0.54
10:AJ:62:ASP:HB3	10:AJ:63:ARG:CA	2.37	0.54
10:AJ:65:PHE:CD1	10:AJ:65:PHE:N	2.76	0.54
12:AL:81:ASP:C	12:AL:82:ASN:OD1	2.51	0.54
12:AL:101:PRO:CG	34:BA:346:G:H5''	2.37	0.54
13:AM:48:PRO:O	13:AM:51:PHE:HB2	2.08	0.54
13:AM:81:GLN:HA	13:AM:86:LYS:HG2	1.89	0.54
13:AM:130:PHE:HB3	13:AM:134:ALA:CB	2.37	0.54
14:AN:26:TYR:H	14:AN:102:VAL:CB	2.19	0.54
14:AN:56:ARG:HD2	14:AN:56:ARG:C	2.33	0.54
14:AN:62:GLY:CA	23:AW:177:PRO:HA	2.37	0.54
14:AN:85:LYS:HG3	14:AN:86:GLY:N	2.23	0.54
15:AO:5:LYS:NZ	15:AO:5:LYS:C	2.65	0.54
18:AR:50:ARG:NE	19:AS:75:PHE:CD2	2.74	0.54
18:AR:88:ILE:HB	19:AS:52:VAL:CA	2.38	0.54
18:AR:106:PHE:O	18:AR:107:ALA:C	2.51	0.54
19:AS:4:ILE:O	19:AS:40:LEU:O	2.26	0.54
20:AT:5:ALA:CB	20:AT:54:ALA:HB2	2.24	0.54
21:AU:7:VAL:HB	25:AY:28:MET:CG	2.38	0.54
21:AU:82:GLN:HG2	21:AU:83:VAL:N	2.23	0.54
22:AV:12:THR:CG2	22:AV:70:SER:O	2.54	0.54
22:AV:26:LYS:HB2	22:AV:38:ILE:CD1	2.32	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:70:LEU:C	23:AW:70:LEU:HD12	2.32	0.54
28:Ab:9:LYS:O	28:Ab:10:LYS:CG	2.56	0.54
31:Ae:25:MET:O	31:Ae:27:THR:N	2.40	0.54
34:BA:22:G:C5'	34:BA:885:G:O4'	2.53	0.54
34:BA:46:G:N2	34:BA:366:C:H1'	2.22	0.54
34:BA:51:A:C2'	34:BA:52:G:OP2	2.56	0.54
34:BA:69:G:C2	34:BA:101:A:C2	2.96	0.54
34:BA:110:C:C2'	34:BA:111:G:H5'	2.37	0.54
34:BA:151:A:H62	34:BA:152:A:H2	1.55	0.54
34:BA:413:G:H2'	34:BA:414:A:OP2	2.06	0.54
34:BA:521:G:C2	34:BA:522:C:C2	2.96	0.54
34:BA:577:G:OP1	34:BA:577:G:H8	1.91	0.54
34:BA:628:G:H2'	34:BA:629:G:O4'	2.08	0.54
34:BA:755:G:OP2	48:BS:65:ARG:CD	2.56	0.54
34:BA:791:G:C8	34:BA:792:A:N7	2.76	0.54
34:BA:1036:G:N7	34:BA:1037:C:C5	2.76	0.54
34:BA:1056:U:O2'	36:BG:195:VAL:O	2.17	0.54
34:BA:1059:C:O2'	43:BN:53:PRO:CD	2.56	0.54
34:BA:1106:G:C2	34:BA:1107:C:C2	2.96	0.54
34:BA:1107:C:C3'	34:BA:1108:G:C5'	2.86	0.54
34:BA:1126:U:H2'	34:BA:1127:G:O4'	2.08	0.54
34:BA:1145:C:O2'	34:BA:1146:A:H8	1.90	0.54
34:BA:1161:C:C2	34:BA:1162:C:H5	2.26	0.54
34:BA:1222:G:C2	34:BA:1223:C:N3	2.76	0.54
34:BA:1405:G:O4'	34:BA:1519:A:C4'	2.56	0.54
35:BF:15:VAL:O	35:BF:16:HIS:HB2	2.08	0.54
36:BG:17:ASP:O	36:BG:18:TRP:C	2.51	0.54
36:BG:159:GLY:N	36:BG:193:TYR:CE1	2.69	0.54
36:BG:193:TYR:N	36:BG:193:TYR:HD2	2.05	0.54
37:BH:8:VAL:C	37:BH:10:ARG:H	2.15	0.54
37:BH:60:GLU:HA	37:BH:63:LYS:CD	2.36	0.54
37:BH:80:GLU:O	37:BH:81:GLU:C	2.51	0.54
38:BI:78:HIS:HB3	41:BL:104:ARG:HB3	1.90	0.54
41:BL:23:SER:O	41:BL:24:THR:HB	2.07	0.54
41:BL:24:THR:O	41:BL:60:ARG:CA	2.54	0.54
41:BL:100:ILE:HB	41:BL:125:ARG:HH21	1.71	0.54
41:BL:103:VAL:CB	41:BL:108:GLY:C	2.81	0.54
41:BL:123:GLU:O	41:BL:124:ALA:C	2.51	0.54
42:BM:15:ALA:HB3	42:BM:76:ALA:C	2.33	0.54
42:BM:31:GLN:N	42:BM:31:GLN:OE1	2.41	0.54
43:BN:23:ILE:O	43:BN:27:ALA:HB3	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:39:PRO:O	43:BN:40:LEU:CB	2.56	0.54
44:BO:67:ASP:O	44:BO:68:ALA:C	2.50	0.54
45:BP:27:LEU:HD22	45:BP:62:SER:OG	2.07	0.54
45:BP:53:ARG:NH2	45:BP:92:ASP:OD2	2.41	0.54
45:BP:83:VAL:CG2	45:BP:84:LEU:H	2.09	0.54
46:BQ:15:VAL:CG1	46:BQ:37:THR:HG21	2.23	0.54
46:BQ:15:VAL:O	46:BQ:18:ALA:HB3	2.06	0.54
48:BS:11:VAL:C	48:BS:13:GLN:N	2.62	0.54
48:BS:36:ILE:HD11	48:BS:60:VAL:CB	2.37	0.54
50:BU:38:ARG:HG3	50:BU:39:SER:H	1.72	0.54
50:BU:60:ILE:HD11	50:BU:62:SER:HA	1.89	0.54
51:BV:75:ILE:O	51:BV:76:LEU:C	2.45	0.54
52:BW:47:HIS:H	52:BW:62:ILE:HG22	1.73	0.54
55:CA:106:MET:HE2	55:CA:106:MET:N	2.23	0.54
55:CA:287:THR:CG2	55:CA:297:LEU:CG	2.80	0.54
1:AA:304:G:C2	1:AA:305:U:H1'	2.43	0.54
1:AA:308:G:N2	1:AA:329:G:C2	2.76	0.54
1:AA:322:A:O4'	1:AA:341:G:H5'	2.08	0.54
1:AA:619:G:C8	1:AA:619:G:C3'	2.89	0.54
1:AA:691:C:O2'	1:AA:692:C:H5'	2.08	0.54
1:AA:884:C:H2'	1:AA:884:C:O2	2.07	0.54
1:AA:893:C:C2	1:AA:894:C:C5	2.95	0.54
1:AA:968:G:H2'	1:AA:969:U:C6	2.43	0.54
1:AA:988:A:OP1	26:AZ:10:LYS:CD	2.56	0.54
1:AA:1031:G:N1	1:AA:1032:A:C6	2.75	0.54
1:AA:1168:G:O6	1:AA:1169:G:C6	2.61	0.54
1:AA:1174:A:H2	1:AA:1176:G:O5'	1.91	0.54
1:AA:1199:U:C2	1:AA:1200:C:C6	2.96	0.54
1:AA:1244:G:C5'	13:AM:9:ASN:CB	2.81	0.54
1:AA:1248:G:H4'	1:AA:1249:U:OP1	2.07	0.54
1:AA:1604:C:O2'	1:AA:1605:C:C5'	2.55	0.54
1:AA:1637:A:C6	1:AA:1638:C:N4	2.76	0.54
1:AA:1660:C:C4	1:AA:2001:A:N6	2.76	0.54
1:AA:1683:C:O2	1:AA:1684:C:C5	2.60	0.54
1:AA:1691:C:N3	1:AA:1697:G:N2	2.56	0.54
1:AA:1710:C:O2'	1:AA:2858:C:N4	2.41	0.54
1:AA:1759:A:OP2	1:AA:1759:A:H3'	2.08	0.54
1:AA:1794:U:O2	1:AA:1795:C:C6	2.60	0.54
1:AA:1801:G:C8	1:AA:1801:G:OP1	2.61	0.54
1:AA:1829:A:C2	1:AA:1830:C:C1'	2.91	0.54
1:AA:1839:G:C8	1:AA:1927:A:H5'	2.43	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2092:U:H4'	1:AA:2225:A:C2	2.42	0.54
1:AA:2165:G:C8	1:AA:2166:G:C8	2.96	0.54
1:AA:2197:U:H3'	1:AA:2197:U:OP2	2.07	0.54
1:AA:2320:A:N6	16:AP:4:LEU:CD1	2.69	0.54
1:AA:2364:C:H1'	24:AX:36:ILE:HD11	1.89	0.54
1:AA:2373:G:O2'	1:AA:2374:C:C6	2.61	0.54
1:AA:2496:C:C6	1:AA:2497:A:H2	2.26	0.54
1:AA:2720:U:C3'	1:AA:2721:A:H8	2.21	0.54
1:AA:2737:G:N1	1:AA:2768:C:N4	2.56	0.54
2:AB:15:A:H5'	2:AB:16:G:O5'	2.08	0.54
2:AB:31:C:N3	2:AB:32:C:H5	2.06	0.54
2:AB:37:C:O2	16:AP:95:HIS:CD2	2.61	0.54
3:AC:26:ALA:O	3:AC:29:VAL:HG12	2.08	0.54
4:AD:37:LEU:CD1	4:AD:62:TYR:O	2.56	0.54
4:AD:112:GLN:N	4:AD:115:GLN:HE22	2.03	0.54
4:AD:134:ARG:C	4:AD:168:ARG:NH2	2.57	0.54
4:AD:148:GLU:O	4:AD:149:PRO:C	2.49	0.54
4:AD:159:ALA:HA	4:AD:196:VAL:HG11	1.89	0.54
5:AE:27:LEU:CD1	5:AE:76:ARG:HH22	2.21	0.54
5:AE:46:ALA:HB2	5:AE:85:ASN:ND2	2.21	0.54
5:AE:55:ASN:ND2	5:AE:73:GLU:HG3	2.22	0.54
5:AE:97:LYS:HG3	5:AE:100:GLU:CD	2.33	0.54
5:AE:154:LYS:C	5:AE:154:LYS:CD	2.80	0.54
6:AF:15:SER:OG	6:AF:16:GLY:N	2.41	0.54
6:AF:126:VAL:HG23	6:AF:197:ASP:OD1	2.08	0.54
7:AG:19:LEU:HG	7:AG:22:ARG:NE	2.19	0.54
8:AH:7:LEU:HB2	8:AH:52:VAL:O	2.06	0.54
8:AH:104:GLU:C	8:AH:105:LEU:HG	2.33	0.54
11:AK:8:GLN:O	11:AK:9:VAL:C	2.50	0.54
11:AK:107:LEU:HD21	11:AK:113:GLY:CA	2.31	0.54
12:AL:59:LYS:HE2	12:AL:59:LYS:CA	2.37	0.54
13:AM:74:GLU:CB	13:AM:107:LYS:NZ	2.70	0.54
14:AN:68:ILE:HG23	14:AN:69:PHE:N	2.22	0.54
14:AN:104:PHE:C	14:AN:105:GLU:CD	2.75	0.54
15:AO:32:GLY:O	15:AO:116:LEU:CD2	2.57	0.54
15:AO:54:LEU:O	15:AO:80:PHE:CE1	2.60	0.54
16:AP:7:TYR:O	16:AP:11:LYS:HD3	2.07	0.54
16:AP:28:VAL:HB	16:AP:101:LEU:HG	1.90	0.54
17:AQ:29:ARG:C	17:AQ:30:VAL:CG1	2.81	0.54
17:AQ:91:ARG:C	17:AQ:93:ARG:HH21	2.12	0.54
18:AR:83:LEU:O	18:AR:90:VAL:CG2	2.55	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:40:LEU:N	19:AS:54:GLY:HA3	2.21	0.54
19:AS:75:PHE:CD1	19:AS:75:PHE:N	2.76	0.54
20:AT:19:LEU:CB	28:Ab:25:LEU:HD13	2.14	0.54
20:AT:74:ALA:CB	20:AT:105:VAL:HA	2.38	0.54
22:AV:37:VAL:HG13	22:AV:39:VAL:HG23	1.89	0.54
23:AW:168:GLU:OE1	23:AW:169:GLU:N	2.41	0.54
24:AX:19:LYS:CG	24:AX:20:ARG:N	2.71	0.54
25:AY:20:VAL:HG23	25:AY:55:LEU:CD2	2.38	0.54
26:AZ:10:LYS:HZ3	26:AZ:12:PRO:CD	2.20	0.54
27:Aa:64:GLY:C	27:Aa:68:ARG:CZ	2.80	0.54
30:Ad:5:TRP:CE3	30:Ad:5:TRP:HA	2.42	0.54
31:Ae:16:ILE:HG22	31:Ae:57:ARG:HH22	1.72	0.54
31:Ae:36:LYS:O	31:Ae:37:SER:HB3	2.08	0.54
33:Ag:11:UNK:CB	33:Ag:152:UNK:N	2.71	0.54
34:BA:132:C:O2'	34:BA:133:U:O4'	2.26	0.54
34:BA:399:G:C4	34:BA:400:C:C5	2.96	0.54
34:BA:596:C:H2'	34:BA:596:C:O2	2.07	0.54
34:BA:673:G:H2'	34:BA:674:G:N7	2.23	0.54
34:BA:735:C:C4'	51:BV:75:ILE:HD11	2.38	0.54
34:BA:741:G:O2'	34:BA:742:G:H5'	2.08	0.54
34:BA:780:A:OP1	44:BO:122:LYS:HA	2.08	0.54
34:BA:859:A:N7	34:BA:860:A:C4	2.76	0.54
34:BA:950:U:H1'	34:BA:971:G:N3	2.23	0.54
34:BA:994:A:N3	47:BR:5:ALA:HA	2.22	0.54
34:BA:1112:C:C1'	36:BG:179:ARG:CZ	2.79	0.54
34:BA:1145:C:O2'	34:BA:1146:A:C8	2.61	0.54
34:BA:1172:C:H2'	34:BA:1173:G:O4'	2.08	0.54
34:BA:1215:G:C2	34:BA:1216:G:N7	2.76	0.54
34:BA:1373:G:H4'	40:BK:34:GLY:O	2.08	0.54
34:BA:1468:A:H2'	34:BA:1469:G:H5'	1.89	0.54
35:BF:58:ILE:O	35:BF:59:GLU:C	2.51	0.54
35:BF:58:ILE:CG2	35:BF:221:LEU:HD12	2.38	0.54
35:BF:131:PRO:C	35:BF:133:LYS:N	2.64	0.54
36:BG:29:TYR:CD1	47:BR:36:PHE:CZ	2.95	0.54
36:BG:43:LEU:HD11	36:BG:55:VAL:HG11	1.89	0.54
36:BG:190:ARG:O	36:BG:191:THR:C	2.51	0.54
37:BH:19:LEU:N	37:BH:33:MET:HE1	2.09	0.54
37:BH:64:LEU:HD13	37:BH:64:LEU:C	2.32	0.54
37:BH:107:ARG:HD2	37:BH:174:LEU:HD11	1.89	0.54
37:BH:123:HIS:HB2	37:BH:125:HIS:HE1	1.71	0.54
38:BI:5:ASP:O	38:BI:36:ASP:HA	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:44:GLY:HA3	38:BI:61:TYR:HB2	1.90	0.54
38:BI:72:GLN:HE21	38:BI:144:THR:HG23	1.71	0.54
38:BI:106:PRO:HG3	38:BI:122:GLU:OE2	2.07	0.54
40:BK:5:ARG:C	40:BK:5:ARG:HH11	2.15	0.54
40:BK:45:ASP:HB2	40:BK:117:ALA:HB2	1.88	0.54
40:BK:123:GLU:OE1	40:BK:134:ALA:HB2	2.06	0.54
41:BL:7:ALA:O	41:BL:10:LEU:N	2.41	0.54
41:BL:24:THR:H	41:BL:60:ARG:HD3	1.73	0.54
41:BL:34:GLU:C	41:BL:37:ARG:HB3	2.32	0.54
41:BL:110:ALA:O	41:BL:120:THR:HA	2.08	0.54
42:BM:70:LYS:HD2	42:BM:70:LYS:N	2.22	0.54
44:BO:66:LEU:CB	44:BO:70:LYS:HZ2	2.20	0.54
47:BR:41:ARG:HA	47:BR:44:LEU:HD23	1.90	0.54
48:BS:69:TYR:OH	48:BS:73:GLU:HG3	2.08	0.54
50:BU:10:VAL:CG2	50:BU:55:ASP:HB2	2.33	0.54
51:BV:87:ARG:O	51:BV:88:LYS:OXT	2.26	0.54
53:BX:42:GLN:O	53:BX:43:LEU:C	2.49	0.54
55:CA:136:ARG:NH1	55:CA:139:TRP:CZ2	2.76	0.54
55:CA:146:ASP:HA	55:CA:149:VAL:HG12	1.88	0.54
55:CA:176:HIS:HB3	55:CA:177:GLU:CG	2.37	0.54
55:CA:397:GLN:C	55:CA:472:TYR:CG	2.81	0.54
55:CA:407:VAL:CA	55:CA:408:GLU:CB	2.86	0.54
55:CA:497:VAL:CA	55:CA:514:HIS:ND1	2.59	0.54
1:AA:7:G:C6	1:AA:2896:C:N3	2.76	0.53
1:AA:149:A:C8	1:AA:149:A:H3'	2.43	0.53
1:AA:154:G:C2'	1:AA:155:C:H5'	2.37	0.53
1:AA:274:G:N3	1:AA:274:G:C3'	2.70	0.53
1:AA:443:A:N7	6:AF:45:ARG:HD3	2.23	0.53
1:AA:450:G:P	6:AF:52:LYS:HD3	2.49	0.53
1:AA:506:G:O2'	1:AA:507:A:H8	1.91	0.53
1:AA:533:G:H5'	18:AR:24:TYR:HD2	1.72	0.53
1:AA:565:C:C1'	1:AA:1252:G:O6	2.56	0.53
1:AA:616:A:C4'	1:AA:617:G:OP1	2.54	0.53
1:AA:674:G:C5'	6:AF:74:ARG:NH2	2.65	0.53
1:AA:676:A:O4'	1:AA:2443:C:O4'	2.26	0.53
1:AA:819:A:H8	1:AA:819:A:H5'	1.72	0.53
1:AA:956:G:H3'	1:AA:956:G:C8	2.43	0.53
1:AA:1029:A:H2'	1:AA:1030:G:C4'	2.36	0.53
1:AA:1047:G:HO2'	1:AA:1048:A:P	2.30	0.53
1:AA:1055:G:H4'	9:AI:33:PRO:CA	2.37	0.53
1:AA:1058:G:C2	1:AA:1059:G:N7	2.76	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1089:G:H8	1:AA:1089:G:O5'	1.89	0.53
1:AA:1163:G:O2'	1:AA:1164:G:H5'	2.08	0.53
1:AA:1312:U:H2'	1:AA:1313:U:C1'	2.34	0.53
1:AA:1407:C:O2'	1:AA:1408:C:C5'	2.55	0.53
1:AA:1409:C:H2'	1:AA:1410:G:O4'	2.07	0.53
1:AA:1519:G:C2'	1:AA:1520:U:O4'	2.55	0.53
1:AA:1521:G:H3'	1:AA:1522:G:H5'	1.90	0.53
1:AA:1582:C:C3'	1:AA:1583:A:O4'	2.56	0.53
1:AA:1613:G:OP1	30:Ad:5:TRP:CD1	2.61	0.53
1:AA:1655:A:N6	1:AA:2005:A:C1'	2.70	0.53
1:AA:1670:C:H3'	1:AA:1671:U:C5	2.43	0.53
1:AA:1670:C:O5'	1:AA:1671:U:C5	2.61	0.53
1:AA:1753:G:C8	1:AA:1753:G:H3'	2.43	0.53
1:AA:1936:A:C5	1:AA:1945:G:C6	2.95	0.53
1:AA:1945:G:C4	1:AA:1946:U:C5	2.97	0.53
1:AA:1949:G:C5	1:AA:1950:G:C8	2.96	0.53
1:AA:2065:C:C4	1:AA:2066:C:C4	2.96	0.53
1:AA:2075:U:C1'	1:AA:2597:G:N2	2.70	0.53
1:AA:2078:C:H2'	1:AA:2079:U:C6	2.44	0.53
1:AA:2092:U:H5	1:AA:2227:A:C6	2.26	0.53
1:AA:2134:A:C2	1:AA:2135:A:N1	2.76	0.53
1:AA:2218:G:C6	1:AA:2219:G:N7	2.76	0.53
1:AA:2227:A:C6	1:AA:2228:G:N7	2.76	0.53
1:AA:2263:C:H4'	1:AA:2329:G:H4'	1.90	0.53
1:AA:2303:G:C6	1:AA:2304:G:N7	2.76	0.53
1:AA:2323:G:H2'	1:AA:2324:C:H6	1.68	0.53
1:AA:2389:G:C5'	1:AA:2390:U:H6	2.21	0.53
1:AA:2455:G:C4	1:AA:2456:C:C5	2.95	0.53
1:AA:2467:C:P	32:Af:8:LYS:HZ2	2.28	0.53
1:AA:2748:A:N6	1:AA:2756:U:C2	2.74	0.53
1:AA:2776:A:C4'	1:AA:2777:G:H5''	2.37	0.53
1:AA:2788:C:C2	1:AA:2789:C:N3	2.75	0.53
1:AA:2793:G:C6	1:AA:2794:C:N4	2.76	0.53
1:AA:2813:A:H2'	1:AA:2814:C:C6	2.43	0.53
2:AB:37:C:N4	2:AB:44:G:H1	2.06	0.53
2:AB:89:G:C8	2:AB:89(A):A:N7	2.76	0.53
3:AC:131:LEU:HD13	3:AC:136:LEU:O	2.07	0.53
3:AC:210:ARG:HH11	3:AC:210:ARG:HG2	1.73	0.53
4:AD:34:VAL:H	4:AD:104:TYR:HH	1.56	0.53
4:AD:79:VAL:HB	4:AD:114:GLY:H	1.73	0.53
4:AD:105:ILE:CD1	4:AD:106:ILE:N	2.70	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:61:ARG:O	5:AE:62:PRO:C	2.51	0.53
5:AE:133:LYS:HB3	5:AE:137:HIS:CD2	2.42	0.53
5:AE:149:ARG:NH2	5:AE:150:VAL:O	2.40	0.53
6:AF:32:LEU:O	6:AF:35:GLU:HB2	2.07	0.53
6:AF:155:LEU:HA	6:AF:174:VAL:CG2	2.38	0.53
7:AG:1:MET:HB3	7:AG:2:PRO:HD3	1.88	0.53
7:AG:20:ILE:HG22	7:AG:21:ARG:N	2.22	0.53
7:AG:26:GLN:CD	7:AG:29:TRP:HE3	2.16	0.53
7:AG:135:LEU:CD2	7:AG:137:GLU:H	2.21	0.53
7:AG:147:ASP:O	7:AG:148:MET:CB	2.56	0.53
8:AH:35:VAL:HG12	8:AH:71:LEU:CD2	2.38	0.53
8:AH:117:PRO:HB3	8:AH:123:PHE:CE2	2.43	0.53
8:AH:148:ILE:HG23	8:AH:162:ILE:HD13	1.89	0.53
10:AJ:99:ILE:C	10:AJ:100:THR:HG1	2.05	0.53
11:AK:55:VAL:HB	11:AK:130:HIS:NE2	2.23	0.53
12:AL:119:PRO:CB	34:BA:347:G:N7	2.71	0.53
13:AM:16:ARG:HG3	13:AM:19:VAL:CG2	2.38	0.53
13:AM:111:ARG:HH11	13:AM:129:ALA:HB2	1.73	0.53
13:AM:114:ILE:HB	13:AM:130:PHE:HA	1.91	0.53
14:AN:42:ILE:O	14:AN:94:VAL:CG2	2.57	0.53
16:AP:94:TYR:HB3	16:AP:99:LYS:HA	1.89	0.53
16:AP:99:LYS:O	16:AP:103:GLU:OE1	2.26	0.53
17:AQ:2:ASN:O	17:AQ:6:LEU:HD22	2.07	0.53
17:AQ:7:ILE:CG1	17:AQ:8:LYS:N	2.68	0.53
17:AQ:28:VAL:HG23	17:AQ:93:ARG:C	2.34	0.53
17:AQ:33:LYS:HG3	17:AQ:45:PHE:CE2	2.43	0.53
17:AQ:48:ILE:HG12	17:AQ:49:VAL:N	2.22	0.53
17:AQ:51:ARG:O	17:AQ:66:VAL:CA	2.55	0.53
17:AQ:56:GLY:O	17:AQ:61:PHE:CB	2.57	0.53
19:AS:11:GLN:O	19:AS:21:ARG:CD	2.51	0.53
21:AU:27:THR:CG2	21:AU:80:ILE:HD12	2.37	0.53
22:AV:12:THR:HG21	22:AV:71:LYS:HA	1.89	0.53
23:AW:122:ARG:HB2	23:AW:171:ILE:HD13	1.89	0.53
26:AZ:50:VAL:O	26:AZ:52:HIS:CE1	2.60	0.53
29:Ac:17:LYS:HZ2	29:Ac:50:ARG:HB2	1.72	0.53
31:Ae:8:LYS:HE2	31:Ae:8:LYS:N	2.11	0.53
34:BA:33:A:N3	45:BP:32:PHE:HZ	2.07	0.53
34:BA:49:U:C5	34:BA:361:G:C2	2.95	0.53
34:BA:189:U:H3	50:BU:63:ARG:HE	1.53	0.53
34:BA:277:C:OP1	50:BU:68:ARG:NH1	2.41	0.53
34:BA:290:C:C2'	34:BA:291:C:H5'	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:393:A:OP2	49:BT:12:LYS:HE3	2.08	0.53
34:BA:397:A:C2	34:BA:548:G:C6	2.96	0.53
34:BA:485:G:HO2'	34:BA:486:U:H6	1.54	0.53
34:BA:646:U:C2	34:BA:647:C:C5	2.95	0.53
34:BA:689:C:C5	34:BA:690:G:N7	2.76	0.53
34:BA:717:C:C2'	34:BA:718:G:OP2	2.55	0.53
34:BA:754:C:O2	34:BA:755:G:H5'	2.09	0.53
34:BA:864:A:C6	34:BA:865:A:N1	2.76	0.53
34:BA:991:U:O2'	34:BA:993:G:H8	1.92	0.53
34:BA:1003:G:OP2	34:BA:1004:A:N3	2.41	0.53
34:BA:1072:G:C6	34:BA:1104:G:C6	2.96	0.53
34:BA:1117:G:C6	34:BA:1184:G:C4	2.89	0.53
34:BA:1238:A:N7	34:BA:1301:U:O4	2.41	0.53
34:BA:1240:U:H2'	40:BK:32:ARG:NH2	2.20	0.53
34:BA:1284:C:N3	34:BA:1285:A:N6	2.56	0.53
34:BA:1316:G:O4'	34:BA:1360:A:C6	2.60	0.53
34:BA:1415:G:C6	34:BA:1416:G:N7	2.76	0.53
34:BA:1496:C:H3'	34:BA:1496:C:H6	1.74	0.53
34:BA:1502:A:N3	34:BA:1502:A:H2'	2.22	0.53
34:BA:1504:G:OP1	34:BA:1504:G:O3'	2.26	0.53
35:BF:35:GLU:HG2	35:BF:39:ILE:C	2.33	0.53
35:BF:57:PHE:C	35:BF:57:PHE:CD2	2.86	0.53
35:BF:149:LEU:O	35:BF:150:SER:C	2.50	0.53
39:BJ:77:ARG:N	39:BJ:80:ARG:CZ	2.71	0.53
40:BK:15:ASP:HB2	40:BK:23:VAL:HB	1.90	0.53
40:BK:78:ARG:HE	40:BK:80:VAL:CG2	2.21	0.53
40:BK:108:ALA:HA	40:BK:111:ARG:HG3	1.90	0.53
41:BL:96:GLY:O	41:BL:97:VAL:C	2.51	0.53
42:BM:9:ARG:CD	42:BM:14:VAL:HG13	2.38	0.53
42:BM:81:ILE:O	42:BM:84:ALA:HB3	2.07	0.53
43:BN:60:ARG:HB2	43:BN:60:ARG:NH1	2.23	0.53
44:BO:63:LEU:O	44:BO:66:LEU:CB	2.57	0.53
44:BO:71:LYS:O	44:BO:74:ALA:N	2.41	0.53
45:BP:85:ILE:HG13	45:BP:87:GLY:N	2.14	0.53
46:BQ:92:HIS:HA	46:BQ:110:ARG:NH2	2.23	0.53
48:BS:31:LEU:N	48:BS:31:LEU:CD1	2.71	0.53
48:BS:69:TYR:HA	48:BS:72:ARG:HB3	1.90	0.53
49:BT:19:ILE:CB	49:BT:37:GLY:O	2.51	0.53
50:BU:4:LYS:CD	50:BU:5:VAL:N	2.63	0.53
50:BU:66:SER:HB3	50:BU:69:LYS:NZ	2.23	0.53
52:BW:9:VAL:CA	52:BW:41:VAL:HG23	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:64:GLU:HG2	52:BW:65:ASN:N	2.23	0.53
53:BX:43:LEU:CD1	53:BX:51:GLU:HB2	2.37	0.53
53:BX:57:ARG:HH21	53:BX:100:ILE:HD12	1.73	0.53
55:CA:15:ASP:HB2	55:CA:16:HIS:CA	2.37	0.53
55:CA:74:ASP:O	55:CA:75:THR:OG1	2.23	0.53
55:CA:317:PRO:CD	55:CA:519:TYR:CD2	2.90	0.53
55:CA:382:VAL:N	55:CA:578:VAL:HB	2.23	0.53
55:CA:488:LEU:HD21	55:CA:527:HIS:HA	1.89	0.53
55:CA:564:THR:OG1	55:CA:567:GLN:HB2	2.08	0.53
1:AA:95:G:P	25:AY:39:LEU:HB3	2.48	0.53
1:AA:221:A:C8	1:AA:221:A:C3'	2.89	0.53
1:AA:243:U:H5'	31:Ae:5:LYS:NZ	2.24	0.53
1:AA:307:G:N2	1:AA:310:A:O4'	2.41	0.53
1:AA:350:U:C6	1:AA:350:U:OP2	2.61	0.53
1:AA:388:G:C5'	27:Aa:23:GLU:HB3	2.38	0.53
1:AA:514:A:H2'	1:AA:515:A:H5'	1.91	0.53
1:AA:531:C:O4'	1:AA:532:A:N3	2.41	0.53
1:AA:673:C:C4	1:AA:808:G:N2	2.77	0.53
1:AA:760:G:C2	1:AA:761:A:H1'	2.43	0.53
1:AA:849:A:C4	1:AA:850:C:C6	2.96	0.53
1:AA:883:G:N1	1:AA:884:C:H41	1.38	0.53
1:AA:894:C:O2	1:AA:894:C:H2'	2.09	0.53
1:AA:903:C:C6	1:AA:903:C:P	3.01	0.53
1:AA:941:A:C2	1:AA:942:G:N3	2.76	0.53
1:AA:1080:C:C4'	10:AJ:128:ALA:CA	2.83	0.53
1:AA:1083:U:H2'	1:AA:1083:U:O2	2.07	0.53
1:AA:1406:U:C2'	1:AA:1407:C:O5'	2.56	0.53
1:AA:1428:C:N4	1:AA:1569:A:H5''	2.22	0.53
1:AA:1613:G:H2'	1:AA:1614:A:OP1	2.08	0.53
1:AA:1657:C:N3	1:AA:2004:G:N2	2.56	0.53
1:AA:1676:A:N7	1:AA:1677:A:N7	2.56	0.53
1:AA:1689:A:C5	1:AA:1700:A:C5	2.96	0.53
1:AA:1717:G:H1	1:AA:1718:G:N2	2.06	0.53
1:AA:1731:G:H3'	1:AA:1731:G:N3	2.24	0.53
1:AA:1988:C:C2'	1:AA:1989:G:O5'	2.56	0.53
1:AA:2075:U:N3	1:AA:2238:G:N1	2.47	0.53
1:AA:2226:C:O2'	1:AA:2227:A:H5'	2.08	0.53
1:AA:2227:A:H4'	4:AD:262:ARG:CG	2.34	0.53
1:AA:2287:A:N7	1:AA:2289:G:N7	2.57	0.53
1:AA:2311:A:H5''	1:AA:2312:U:H5	1.71	0.53
1:AA:2458:G:C8	1:AA:2490:G:C6	2.96	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2554:U:H5	1:AA:2556:C:N3	2.06	0.53
1:AA:2606:C:O2	1:AA:2607:G:C8	2.61	0.53
1:AA:2659:G:H1'	1:AA:2663:G:H1	1.74	0.53
1:AA:2675:A:OP1	12:AL:32:TYR:HE2	1.92	0.53
1:AA:2720:U:O2	1:AA:2720:U:C2'	2.53	0.53
1:AA:2793:G:N2	1:AA:2794:C:C2	2.76	0.53
2:AB:48:A:C2	2:AB:49:C:C2	2.96	0.53
2:AB:85:G:N3	2:AB:86:G:C8	2.76	0.53
3:AC:7:TYR:OH	3:AC:14:VAL:HG21	2.08	0.53
4:AD:7:LYS:HZ3	4:AD:91:ARG:NE	2.07	0.53
4:AD:85:ASP:C	4:AD:87:ASN:N	2.66	0.53
4:AD:136:ILE:H	4:AD:168:ARG:HH22	1.56	0.53
6:AF:31:HIS:HB2	13:AM:14:LYS:NZ	2.10	0.53
6:AF:74:ARG:HH22	6:AF:76:GLY:H	1.55	0.53
6:AF:118:ALA:CA	6:AF:122:LYS:HB2	2.38	0.53
6:AF:145:GLU:C	6:AF:147:GLY:H	2.16	0.53
7:AG:130:ASN:O	7:AG:161:THR:HG23	2.08	0.53
7:AG:151:ALA:C	7:AG:152:LEU:CG	2.80	0.53
8:AH:8:PRO:HA	8:AH:51:ARG:CZ	2.38	0.53
8:AH:8:PRO:CB	8:AH:51:ARG:NH2	2.70	0.53
8:AH:103:LEU:CD1	8:AH:115:VAL:HG11	2.23	0.53
8:AH:122:THR:O	8:AH:133:VAL:CG2	2.56	0.53
9:AI:141:VAL:HA	33:Ag:134:UNK:CA	2.22	0.53
10:AJ:12:LEU:CD1	10:AJ:23:VAL:CG2	2.86	0.53
10:AJ:117:THR:C	10:AJ:118:THR:HG1	2.08	0.53
11:AK:17:ASP:OD1	11:AK:17:ASP:C	2.51	0.53
12:AL:1:MET:HG3	12:AL:2:ILE:H	1.72	0.53
12:AL:6:THR:HG23	12:AL:21:CYS:HB3	1.90	0.53
12:AL:22:ILE:HG13	12:AL:40:VAL:HG13	1.91	0.53
12:AL:64:ARG:NE	12:AL:67:LYS:C	2.66	0.53
13:AM:17:LYS:HB2	13:AM:17:LYS:HZ2	1.73	0.53
13:AM:107:LYS:O	13:AM:108:LYS:C	2.50	0.53
16:AP:38:GLN:CD	16:AP:40:ILE:HD11	2.33	0.53
18:AR:8:VAL:HA	18:AR:11:ARG:NE	2.23	0.53
18:AR:48:ALA:CA	18:AR:51:LYS:HD2	2.38	0.53
18:AR:59:ARG:O	18:AR:62:ILE:CB	2.48	0.53
18:AR:67:ALA:HA	18:AR:70:ARG:NH2	2.11	0.53
18:AR:76:TYR:HD2	18:AR:80:ILE:HD11	1.63	0.53
20:AT:21:VAL:HG11	20:AT:75:TYR:HA	1.90	0.53
20:AT:33:ARG:O	20:AT:34:ASN:C	2.51	0.53
23:AW:139:VAL:HG12	23:AW:140:ASP:N	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:53:MET:HE3	24:AX:58:THR:N	2.23	0.53
27:Aa:22:ILE:N	27:Aa:22:ILE:HD12	2.23	0.53
31:Ae:42:ARG:C	31:Ae:43:GLN:CD	2.77	0.53
34:BA:192:U:H4'	53:BX:103:GLY:N	2.23	0.53
34:BA:352:C:OP1	34:BA:352:C:H6	1.92	0.53
34:BA:358:U:O4'	55:CA:217:TYR:CD1	2.61	0.53
34:BA:429:U:O2'	34:BA:430:A:H5''	2.07	0.53
34:BA:429:U:H1'	34:BA:430:A:H5''	1.90	0.53
34:BA:433:C:C4	34:BA:434:U:O4	2.62	0.53
34:BA:553:A:C2	34:BA:554:C:C2	2.96	0.53
34:BA:559:A:C8	34:BA:561:U:C5	2.96	0.53
34:BA:586:C:OP1	50:BU:34:LYS:HE3	2.08	0.53
34:BA:587:G:C2	34:BA:755:G:C6	2.96	0.53
34:BA:594:G:H2'	34:BA:595:G:C1'	2.38	0.53
34:BA:712:A:O2'	34:BA:713:G:O4'	2.23	0.53
34:BA:728:A:H8	48:BS:54:ARG:NH2	2.06	0.53
34:BA:756:C:H4'	34:BA:823:G:O2'	2.08	0.53
34:BA:942:G:N2	42:BM:124:GLN:NE2	2.49	0.53
34:BA:981:U:C6	34:BA:981:U:C3'	2.91	0.53
34:BA:1055:A:O2'	34:BA:1056:U:OP1	2.26	0.53
34:BA:1165:C:C2'	34:BA:1166:G:H5'	2.38	0.53
34:BA:1300:G:O2'	34:BA:1301:U:P	2.66	0.53
34:BA:1307:U:H2'	34:BA:1308:U:O4'	2.09	0.53
34:BA:1339:A:O5'	34:BA:1339:A:H8	1.91	0.53
34:BA:1446:A:O2'	34:BA:1447:G:OP1	2.26	0.53
34:BA:1512:U:C2	34:BA:1513:A:N7	2.76	0.53
35:BF:15:VAL:CG2	35:BF:209:ARG:NE	2.66	0.53
35:BF:186:ALA:O	35:BF:201:ILE:HD13	2.09	0.53
36:BG:138:VAL:O	36:BG:139:GLN:C	2.50	0.53
36:BG:151:VAL:HG13	36:BG:200:ALA:HB2	1.90	0.53
37:BH:6:GLY:O	37:BH:8:VAL:CG2	2.56	0.53
37:BH:129:ASN:ND2	37:BH:144:ASP:OD1	2.41	0.53
38:BI:50:GLU:HB2	38:BI:53:LEU:CD2	2.38	0.53
38:BI:149:GLU:O	38:BI:150:ARG:C	2.51	0.53
39:BJ:36:ARG:CZ	39:BJ:36:ARG:CB	2.85	0.53
39:BJ:76:ALA:C	39:BJ:80:ARG:CZ	2.81	0.53
40:BK:71:PRO:C	40:BK:96:GLN:HE21	2.16	0.53
40:BK:123:GLU:O	40:BK:124:LEU:C	2.50	0.53
41:BL:29:SER:CB	41:BL:32:LYS:NZ	2.65	0.53
41:BL:36:LEU:C	41:BL:39:LEU:HB2	2.33	0.53
41:BL:69:ARG:NH2	41:BL:75:ARG:O	2.41	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:23:ASN:O	42:BM:59:PHE:N	2.41	0.53
45:BP:48:PRO:HG2	45:BP:49:ASN:N	2.21	0.53
46:BQ:87:TYR:O	46:BQ:90:LEU:HB2	2.08	0.53
46:BQ:97:PRO:CB	46:BQ:101:GLN:HE21	2.21	0.53
49:BT:1:MET:CB	49:BT:3:LYS:HZ1	2.22	0.53
50:BU:35:VAL:HA	50:BU:36:ILE:HD13	1.90	0.53
51:BV:58:LEU:O	51:BV:59:SER:O	2.27	0.53
52:BW:39:THR:O	52:BW:40:ILE:C	2.50	0.53
52:BW:43:GLU:O	52:BW:47:HIS:NE2	2.30	0.53
55:CA:17:GLY:HA2	55:CA:20:THR:HG21	1.89	0.53
55:CA:19:THR:CA	55:CA:20:THR:CB	2.85	0.53
55:CA:89:MET:HG2	55:CA:119:TYR:CD2	2.43	0.53
55:CA:289:CYS:HB2	55:CA:294:VAL:CG1	2.38	0.53
55:CA:324:LYS:HG3	55:CA:325:PHE:CD1	2.42	0.53
55:CA:403:VAL:O	55:CA:465:LEU:CD1	2.54	0.53
1:AA:14:A:N1	1:AA:526:A:C6	2.76	0.53
1:AA:37:C:O2'	6:AF:50:SER:OG	2.21	0.53
1:AA:71:A:H2	1:AA:73:A:N1	2.06	0.53
1:AA:438:G:O2'	1:AA:439:G:H5'	2.08	0.53
1:AA:504:U:H5'	1:AA:506:G:OP1	2.09	0.53
1:AA:544:C:O2'	1:AA:545:G:H5'	2.08	0.53
1:AA:564:C:H5''	19:AS:80:GLN:HA	1.90	0.53
1:AA:617:G:H2'	1:AA:618:G:C8	2.43	0.53
1:AA:789:A:OP1	1:AA:789:A:C3'	2.51	0.53
1:AA:860:U:H6	1:AA:2267:A:H4'	1.70	0.53
1:AA:910:A:C5	14:AN:17:LEU:HD11	2.43	0.53
1:AA:1064:C:H2'	1:AA:1064:C:O2	2.08	0.53
1:AA:1100:C:C6	1:AA:1100:C:O5'	2.61	0.53
1:AA:1101:U:H2'	1:AA:1102:C:H6	1.73	0.53
1:AA:1142:U:H3'	1:AA:1142(A):A:C8	2.42	0.53
1:AA:1180:C:C2'	1:AA:1181:C:C6	2.89	0.53
1:AA:1236:G:O2'	1:AA:1237:A:O4'	2.20	0.53
1:AA:1534:G:N2	1:AA:1538:G:C8	2.77	0.53
1:AA:1842:G:C4	1:AA:1843:C:C5	2.96	0.53
1:AA:1861:G:O2'	1:AA:1862:G:H5'	2.07	0.53
1:AA:1928:A:H8	1:AA:1929:G:N3	2.07	0.53
1:AA:1964:G:C2	1:AA:1967:C:H5	2.27	0.53
1:AA:2125:G:N2	1:AA:2172:U:H5'	2.23	0.53
1:AA:2196:C:H2'	1:AA:2196:C:O2	2.08	0.53
1:AA:2199:A:O5'	1:AA:2199:A:H8	1.89	0.53
1:AA:2421:G:N3	1:AA:2422:A:N7	2.57	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2514:U:C2	1:AA:2515:C:C5	2.95	0.53
1:AA:2529:G:H5''	1:AA:2530:A:C5'	2.37	0.53
1:AA:2618:G:N3	1:AA:2619:C:C6	2.77	0.53
1:AA:2652:C:H3'	1:AA:2653:U:C5	2.43	0.53
1:AA:2808:U:C5	1:AA:2892:A:N6	2.74	0.53
1:AA:2808:U:C3'	1:AA:2809:A:C5'	2.86	0.53
3:AC:29:VAL:CG1	3:AC:30:LYS:N	2.71	0.53
3:AC:70:LYS:O	3:AC:71:GLN:HB3	2.07	0.53
3:AC:181:PRO:CD	3:AC:184:LYS:HD2	2.35	0.53
4:AD:5:LYS:O	4:AD:27:THR:HG22	2.08	0.53
4:AD:260:ARG:HH11	4:AD:260:ARG:HB2	1.71	0.53
5:AE:51:PHE:HD1	5:AE:76:ARG:HG2	1.73	0.53
5:AE:164:ARG:HG2	5:AE:165:VAL:N	2.22	0.53
5:AE:176:ILE:O	5:AE:176:ILE:HD13	2.08	0.53
5:AE:185:LYS:HD3	5:AE:185:LYS:O	2.08	0.53
6:AF:61:GLY:HA3	6:AF:78:ILE:HG22	1.89	0.53
7:AG:26:GLN:NE2	7:AG:31:VAL:HG22	2.23	0.53
7:AG:33:ARG:NH1	7:AG:33:ARG:C	2.66	0.53
8:AH:74:ASN:ND2	8:AH:75:ALA:H	2.05	0.53
9:AI:153:LEU:C	9:AI:155:GLY:N	2.57	0.53
10:AJ:23:VAL:CG1	10:AJ:37:PHE:CG	2.92	0.53
10:AJ:51:ALA:CB	10:AJ:72:PRO:HB2	2.38	0.53
11:AK:13:TRP:O	11:AK:14:VAL:CG2	2.56	0.53
11:AK:97:ARG:CA	11:AK:100:GLU:HG2	2.32	0.53
12:AL:70:LYS:HB3	12:AL:107:ARG:HH12	1.73	0.53
14:AN:35:VAL:O	14:AN:35:VAL:HG13	2.06	0.53
17:AQ:9:LEU:O	17:AQ:10:VAL:C	2.51	0.53
17:AQ:33:LYS:HG3	17:AQ:45:PHE:CZ	2.44	0.53
17:AQ:42:ILE:CD1	34:BA:345:C:OP1	2.57	0.53
18:AR:32:PHE:HB3	18:AR:36:ARG:HH21	1.72	0.53
18:AR:57:PHE:HA	18:AR:60:LEU:CD1	2.37	0.53
18:AR:61:TRP:CZ3	18:AR:93:LYS:C	2.87	0.53
19:AS:33:VAL:O	19:AS:63:GLY:HA2	2.08	0.53
19:AS:36:PRO:HB3	19:AS:61:VAL:CG2	2.38	0.53
19:AS:67:GLY:HA2	19:AS:93:GLU:C	2.34	0.53
21:AU:23:GLU:OE1	21:AU:23:GLU:C	2.52	0.53
24:AX:20:ARG:HB3	24:AX:24:LYS:HZ1	1.74	0.53
24:AX:32:ARG:HB2	24:AX:32:ARG:HH11	1.70	0.53
29:Ac:9:LEU:O	29:Ac:10:LEU:HD23	2.08	0.53
29:Ac:41:PRO:HD2	29:Ac:47:THR:OG1	2.08	0.53
33:Ag:339:UNK:CB	33:Ag:345:UNK:CB	2.86	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:66:G:C5'	34:BA:173:U:O4	2.55	0.53
34:BA:67:C:C4'	34:BA:172:A:H1'	2.39	0.53
34:BA:110:C:H2'	34:BA:111:G:C5'	2.37	0.53
34:BA:152:A:H3'	34:BA:152:A:H8	1.72	0.53
34:BA:229:U:C2	34:BA:230:G:C8	2.96	0.53
34:BA:266:G:N2	34:BA:270:A:H62	2.05	0.53
34:BA:306:G:C2'	34:BA:307:C:H5'	2.38	0.53
34:BA:362:G:O5'	45:BP:34:ARG:NH2	2.41	0.53
34:BA:407:G:H1'	37:BH:119:GLN:OE1	2.08	0.53
34:BA:426:G:O3'	37:BH:41:GLY:O	2.26	0.53
34:BA:806:C:O2'	34:BA:807:A:H5'	2.07	0.53
34:BA:939:G:H4'	34:BA:1375:A:O2'	2.08	0.53
34:BA:993:G:HO2'	34:BA:994:A:P	2.30	0.53
34:BA:1039:C:C4	34:BA:1040:U:C5	2.96	0.53
34:BA:1064:G:N2	34:BA:1192:C:N3	2.56	0.53
34:BA:1117:G:C2	34:BA:1184:G:H1'	2.41	0.53
34:BA:1167:A:C2	34:BA:1169:A:N3	2.75	0.53
34:BA:1223:C:O5'	34:BA:1224:G:H5''	2.08	0.53
34:BA:1228:C:OP1	46:BQ:108:ARG:NH2	2.41	0.53
34:BA:1311:G:C2	34:BA:1327:C:O4'	2.62	0.53
34:BA:1318:A:C2'	52:BW:35:SER:OG	2.54	0.53
34:BA:1459:C:HO2'	34:BA:1460:A:H5'	1.72	0.53
34:BA:1464:G:C2	34:BA:1465:C:N3	2.76	0.53
35:BF:61:LEU:N	35:BF:64:ARG:NH1	2.55	0.53
35:BF:85:ALA:O	35:BF:86:GLU:C	2.50	0.53
35:BF:187:LEU:HB2	35:BF:201:ILE:CG2	2.38	0.53
36:BG:66:VAL:HG12	36:BG:66:VAL:O	2.08	0.53
38:BI:43:LEU:CD2	38:BI:44:GLY:N	2.67	0.53
38:BI:45:PHE:CD1	38:BI:45:PHE:O	2.61	0.53
38:BI:60:TYR:HD1	38:BI:64:ARG:HD2	1.73	0.53
38:BI:76:ILE:HG23	38:BI:77:PRO:HD2	1.89	0.53
39:BJ:37:VAL:HA	39:BJ:65:VAL:HG11	1.87	0.53
40:BK:12:LEU:HD22	40:BK:24:THR:CG2	2.38	0.53
40:BK:87:VAL:CG1	40:BK:152:ALA:HA	2.31	0.53
41:BL:123:GLU:OE1	41:BL:124:ALA:N	2.39	0.53
44:BO:91:ARG:HD2	44:BO:95:ILE:HD11	1.89	0.53
45:BP:18:VAL:O	45:BP:19:ARG:CB	2.55	0.53
45:BP:106:ASP:O	45:BP:107:ALA:C	2.51	0.53
46:BQ:70:LEU:CD1	46:BQ:74:VAL:HG21	2.39	0.53
48:BS:26:GLU:OE2	48:BS:26:GLU:CA	2.56	0.53
48:BS:35:ARG:CZ	48:BS:35:ARG:HB3	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:72:ARG:NH2	49:BT:73:LEU:HD23	2.19	0.53
50:BU:33:GLY:O	50:BU:34:LYS:C	2.50	0.53
51:BV:29:PHE:CE1	51:BV:36:ASN:OD1	2.62	0.53
55:CA:156:GLU:CA	55:CA:157:GLN:CB	2.86	0.53
55:CA:374:ARG:NE	55:CA:585:ILE:CG1	2.72	0.53
55:CA:514:HIS:CD2	55:CA:515:GLY:CA	2.86	0.53
1:AA:188:G:H2'	1:AA:189:G:H8	1.73	0.53
1:AA:247:G:H1	31:Ae:8:LYS:CD	2.21	0.53
1:AA:265:A:C6	1:AA:428:A:N7	2.76	0.53
1:AA:577:G:C5	1:AA:578:A:N7	2.76	0.53
1:AA:599:G:H5'	6:AF:31:HIS:NE2	2.24	0.53
1:AA:605:C:H4'	6:AF:102:PRO:HG3	1.91	0.53
1:AA:660:G:H5''	6:AF:99:TYR:CE2	2.43	0.53
1:AA:675:A:H2'	1:AA:676:A:C2	2.43	0.53
1:AA:696:G:N3	1:AA:697:C:C6	2.76	0.53
1:AA:788:A:H4'	1:AA:789:A:O5'	2.09	0.53
1:AA:859:G:O2'	1:AA:860:U:H5''	2.07	0.53
1:AA:873:G:C6	1:AA:874:G:N7	2.77	0.53
1:AA:945:A:H3'	1:AA:946:G:H5''	1.91	0.53
1:AA:946:G:H2'	1:AA:947:G:C8	2.44	0.53
1:AA:959:A:C4	1:AA:960:A:N7	2.76	0.53
1:AA:1010:A:O2'	1:AA:1152:C:O2	2.26	0.53
1:AA:1027:A:C6	1:AA:1126:A:C4	2.96	0.53
1:AA:1183:G:OP2	26:AZ:30:ARG:NH2	2.41	0.53
1:AA:1309:G:C6	1:AA:1310:G:N7	2.76	0.53
1:AA:1311:G:C8	30:Ad:48:LYS:HD3	2.43	0.53
1:AA:1334:G:C4	1:AA:1335:U:C5	2.95	0.53
1:AA:1340:U:O2'	1:AA:1394:U:O2'	2.12	0.53
1:AA:1492:G:N2	1:AA:1499:C:C5	2.75	0.53
1:AA:1566:A:C2'	1:AA:1567:A:H5'	2.35	0.53
1:AA:1681:G:C6	1:AA:1762:A:N7	2.76	0.53
1:AA:1710:C:C1'	1:AA:2858:C:H42	2.21	0.53
1:AA:1764:G:C6	1:AA:1989:G:C2	2.96	0.53
1:AA:1807:G:N2	1:AA:1809:A:H5'	2.22	0.53
1:AA:1861:G:H4'	3:AC:205:LYS:HZ2	1.70	0.53
1:AA:1869:G:N3	1:AA:1878:G:C6	2.77	0.53
1:AA:1951:U:C2	1:AA:1953:A:H5'	2.43	0.53
1:AA:1953:A:H62	1:AA:2550:G:H4'	1.71	0.53
1:AA:1987:G:N3	1:AA:1988:C:C5	2.75	0.53
1:AA:1997:G:C2	1:AA:1998:G:C4	2.96	0.53
1:AA:2045:C:O2'	28:Ab:22:HIS:HB2	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2126:A:N1	1:AA:2162:G:O2'	2.40	0.53
1:AA:2168:G:N1	1:AA:2171:A:OP2	2.38	0.53
1:AA:2215:G:H2'	1:AA:2216:G:C8	2.44	0.53
1:AA:2232:U:H2'	1:AA:2233:U:C5'	2.39	0.53
1:AA:2239:G:H4'	4:AD:249:PRO:HG3	1.91	0.53
1:AA:2246:G:N9	1:AA:2426:A:C2	2.77	0.53
1:AA:2269:A:O2'	1:AA:2270:G:H5'	2.08	0.53
1:AA:2306:C:C5	1:AA:2311:A:N1	2.76	0.53
1:AA:2436:G:O2'	1:AA:2437:U:P	2.66	0.53
1:AA:2443:C:H2'	1:AA:2444:G:C8	2.28	0.53
1:AA:2491:U:H2'	1:AA:2492:U:H5''	1.89	0.53
1:AA:2546:U:O4'	1:AA:2565:A:H2	1.92	0.53
1:AA:2582:G:H2'	1:AA:2583:G:H5'	1.89	0.53
1:AA:2677:G:C2'	1:AA:2678:C:H5'	2.38	0.53
1:AA:2694:G:C6	1:AA:2695:C:C5	2.95	0.53
1:AA:2868:A:C4	1:AA:2869:G:C8	2.97	0.53
1:AA:2876:G:P	17:AQ:2:ASN:CB	2.96	0.53
2:AB:45:A:C5	2:AB:46:A:C5	2.95	0.53
2:AB:79:C:N4	2:AB:80:U:C4	2.76	0.53
2:AB:112:G:C5'	2:AB:113:C:OP2	2.54	0.53
3:AC:63:SER:O	3:AC:65:PRO:CD	2.57	0.53
4:AD:56:GLY:HA3	4:AD:214:TRP:HZ3	1.74	0.53
4:AD:117:VAL:C	4:AD:118:VAL:CG2	2.81	0.53
5:AE:7:VAL:HG11	5:AE:196:VAL:CG2	2.32	0.53
5:AE:51:PHE:HE1	5:AE:76:ARG:H	1.55	0.53
6:AF:201:VAL:CG1	6:AF:205:ARG:NH2	2.72	0.53
7:AG:26:GLN:HE22	7:AG:31:VAL:HG22	1.74	0.53
7:AG:50:ALA:CA	7:AG:70:VAL:HG13	2.38	0.53
7:AG:77:ILE:HB	7:AG:83:ARG:HH21	1.73	0.53
8:AH:74:ASN:CG	8:AH:75:ALA:N	2.66	0.53
8:AH:85:LYS:NZ	8:AH:142:GLY:CA	2.72	0.53
10:AJ:21:PRO:N	10:AJ:22:PRO:HD3	2.24	0.53
11:AK:85:ILE:N	11:AK:85:ILE:CD1	2.69	0.53
12:AL:7:TYR:CB	12:AL:18:LYS:CE	2.83	0.53
12:AL:31:LYS:HB3	12:AL:32:TYR:CE2	2.43	0.53
14:AN:22:LYS:CE	14:AN:23:GLY:H	2.20	0.53
14:AN:50:ALA:O	14:AN:51:ARG:C	2.50	0.53
14:AN:57:HIS:O	14:AN:59:ARG:N	2.42	0.53
15:AO:26:LYS:HE2	15:AO:70:LEU:HB3	1.90	0.53
15:AO:75:LEU:HD23	15:AO:78:LYS:HG2	1.91	0.53
16:AP:30:ARG:HD2	16:AP:91:PRO:HB2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:85:LYS:HZ3	17:AQ:85:LYS:N	2.07	0.53
19:AS:14:VAL:CG1	19:AS:19:LYS:HE2	2.38	0.53
20:AT:18:ARG:HH11	20:AT:18:ARG:CB	2.20	0.53
20:AT:34:ASN:CG	20:AT:37:ARG:HH21	2.17	0.53
20:AT:64:MET:CB	20:AT:109:GLU:HG3	2.38	0.53
21:AU:20:GLY:O	21:AU:25:LYS:O	2.27	0.53
21:AU:39:ILE:HD12	21:AU:54:VAL:HG12	1.90	0.53
22:AV:7:VAL:HG22	22:AV:71:LYS:HG3	1.88	0.53
23:AW:141:VAL:HG12	23:AW:142:SER:N	2.22	0.53
24:AX:21:LEU:HD11	24:AX:40:GLN:CA	2.39	0.53
25:AY:7:GLU:HA	25:AY:10:LYS:CG	2.39	0.53
27:Aa:39:CYS:O	27:Aa:40:HIS:CG	2.62	0.53
28:Ab:47:PRO:O	28:Ab:58:LEU:HG	2.08	0.53
31:Ae:25:MET:HE3	31:Ae:44:LYS:CD	2.38	0.53
34:BA:133:U:H4'	34:BA:134:A:OP1	2.08	0.53
34:BA:153:C:C2	34:BA:154:C:C5	2.96	0.53
34:BA:328:C:H4'	34:BA:329:A:O5'	2.09	0.53
34:BA:377:G:C2	34:BA:378:G:N7	2.76	0.53
34:BA:581:G:C2'	34:BA:582:U:OP2	2.57	0.53
34:BA:647:C:O2'	34:BA:648:A:H5'	2.08	0.53
34:BA:657:G:C4'	48:BS:28:GLN:HE22	2.20	0.53
34:BA:687:A:H2	34:BA:700:G:H21	1.56	0.53
34:BA:696:A:C6	34:BA:697:U:H1'	2.43	0.53
34:BA:728:A:N1	34:BA:729:A:C4	2.76	0.53
34:BA:735:C:O5'	34:BA:735:C:H6	1.90	0.53
34:BA:950:U:C2'	34:BA:951:G:H5'	2.38	0.53
34:BA:968:A:H2'	34:BA:968:A:N3	2.22	0.53
34:BA:1009:G:H2'	34:BA:1010:G:H8	1.73	0.53
34:BA:1073:U:H2'	34:BA:1074:G:C8	2.32	0.53
34:BA:1107:C:H2'	34:BA:1108:G:C5'	2.38	0.53
34:BA:1363:A:H5''	34:BA:1364:U:C5	2.43	0.53
34:BA:1371:G:C5	34:BA:1372:U:C5	2.96	0.53
34:BA:1418:A:C2'	34:BA:1419:G:H5'	2.38	0.53
34:BA:1451:A:N3	34:BA:1451:A:H2'	2.22	0.53
34:BA:1517:G:H2'	34:BA:1517:G:N3	2.23	0.53
35:BF:52:GLU:O	35:BF:53:ARG:C	2.52	0.53
35:BF:77:ALA:O	35:BF:78:GLN:C	2.51	0.53
35:BF:119:GLU:HA	35:BF:142:LEU:CD1	2.37	0.53
35:BF:171:ALA:CA	35:BF:174:VAL:HB	2.36	0.53
35:BF:208:ILE:HD12	35:BF:239:VAL:HG11	1.91	0.53
35:BF:212:GLN:OE1	35:BF:212:GLN:HA	1.92	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:132:ARG:HB3	36:BG:136:GLN:HE22	1.73	0.53
36:BG:150:LYS:HZ2	36:BG:152:ILE:CG2	2.21	0.53
37:BH:198:VAL:CG2	37:BH:199:ASN:H	2.14	0.53
38:BI:136:MET:CA	38:BI:139:LEU:HD12	2.38	0.53
39:BJ:19:LEU:HG	39:BJ:23:LYS:HD3	1.89	0.53
40:BK:75:VAL:CA	40:BK:89:MET:HE1	2.30	0.53
43:BN:8:LEU:CD1	43:BN:16:LEU:HA	2.39	0.53
45:BP:8:ASN:O	45:BP:9:GLN:C	2.50	0.53
45:BP:126:LYS:HE3	45:BP:126:LYS:CA	2.39	0.53
46:BQ:96:LEU:CB	46:BQ:97:PRO:CD	2.86	0.53
46:BQ:105:THR:O	46:BQ:106:ASN:HB2	2.08	0.53
47:BR:14:PRO:HB2	47:BR:17:LYS:HA	1.91	0.53
47:BR:51:GLY:C	47:BR:53:LEU:N	2.62	0.53
48:BS:79:ARG:HH11	48:BS:79:ARG:HB3	1.73	0.53
50:BU:4:LYS:O	50:BU:5:VAL:CG2	2.57	0.53
51:BV:61:LYS:HB3	51:BV:62:GLU:OE1	2.09	0.53
52:BW:22:LEU:C	52:BW:24:ALA:N	2.64	0.53
54:BY:21:TYR:O	54:BY:22:ARG:HB2	2.08	0.53
55:CA:253:LYS:HG2	55:CA:271:GLY:HA2	1.90	0.53
55:CA:447:GLY:HA2	55:CA:480:VAL:CG2	2.39	0.53
55:CA:575:ASP:O	55:CA:576:GLU:HG3	2.08	0.53
1:AA:143:C:O2	1:AA:144:C:C5	2.61	0.53
1:AA:179:G:OP1	30:Ad:32:LYS:NZ	2.30	0.53
1:AA:197:A:H5''	1:AA:2068:U:C4	2.44	0.53
1:AA:223:A:N6	1:AA:408:G:O4'	2.41	0.53
1:AA:237:C:C2	1:AA:238:C:C5	2.96	0.53
1:AA:291:C:N4	1:AA:292:C:N4	2.56	0.53
1:AA:318:C:O2'	1:AA:319:C:H5'	2.08	0.53
1:AA:454:A:H8	1:AA:454:A:H3'	1.74	0.53
1:AA:678:C:O2'	1:AA:679:C:H5'	2.07	0.53
1:AA:712:G:C4	1:AA:713:G:C8	2.97	0.53
1:AA:813:U:H2'	1:AA:814:C:O4'	2.08	0.53
1:AA:951:C:C2'	1:AA:952:G:H5'	2.37	0.53
1:AA:960:A:C5'	1:AA:961:C:OP1	2.54	0.53
1:AA:973:A:O2'	1:AA:974:G:H5'	2.08	0.53
1:AA:987:G:C6	1:AA:988:A:C5	2.96	0.53
1:AA:1019:U:O2	1:AA:1144:G:N2	2.42	0.53
1:AA:1045:A:O4'	1:AA:1111:A:N1	2.38	0.53
1:AA:1160:G:N1	1:AA:1161:C:N4	2.55	0.53
1:AA:1161:C:C1'	19:AS:22:VAL:HG11	2.34	0.53
1:AA:1256:G:C6	1:AA:1257:C:N4	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1499:C:H3'	1:AA:1500:G:C8	2.44	0.53
1:AA:1524:G:C5	1:AA:1525:G:N7	2.77	0.53
1:AA:1591:G:H2'	1:AA:1592:C:H6	1.73	0.53
1:AA:1640:C:H2'	1:AA:1641:A:O4'	2.07	0.53
1:AA:1650:G:O2'	1:AA:1651:G:O5'	2.26	0.53
1:AA:1665:A:H8	1:AA:2726:U:H3	1.54	0.53
1:AA:1665:A:H1'	12:AL:1:MET:HG2	1.90	0.53
1:AA:1779:U:C6	1:AA:1779:U:C3'	2.91	0.53
1:AA:1784:A:C4'	1:AA:1785:A:C8	2.92	0.53
1:AA:1789:A:C8	1:AA:1790:C:C5	2.97	0.53
1:AA:1794:U:H2'	1:AA:1795:C:H6	1.73	0.53
1:AA:1820:U:H2'	4:AD:202:LYS:CG	2.30	0.53
1:AA:1856:G:C2'	1:AA:1857:G:H5'	2.33	0.53
1:AA:2011:U:C2'	1:AA:2012:G:C8	2.90	0.53
1:AA:2067:G:C6	1:AA:2069:G:N7	2.77	0.53
1:AA:2095:C:O2'	1:AA:2096:U:H5'	2.08	0.53
1:AA:2215:G:H8	1:AA:2215:G:O5'	1.90	0.53
1:AA:2246:G:N2	1:AA:2247:A:C6	2.77	0.53
1:AA:2246:G:H1'	1:AA:2426:A:H2	1.73	0.53
1:AA:2305:A:H2'	7:AG:154:GLY:CA	2.32	0.53
1:AA:2393:A:O3'	13:AM:57:THR:HA	2.08	0.53
1:AA:2425:A:H2'	1:AA:2425:A:N3	2.23	0.53
1:AA:2545:G:H2'	1:AA:2546:U:H5'	1.91	0.53
1:AA:2630:G:N2	1:AA:2789:C:C2	2.77	0.53
1:AA:2666:C:C2'	1:AA:2667:C:C5'	2.86	0.53
1:AA:2734:A:N7	1:AA:2735:G:C4	2.76	0.53
1:AA:2737:G:H1	1:AA:2768:C:N4	2.06	0.53
1:AA:2764:A:N7	1:AA:2766:G:C5	2.75	0.53
2:AB:30:C:C1'	2:AB:58:A:H2	2.21	0.53
3:AC:19:ILE:HG23	3:AC:223:ARG:CB	2.39	0.53
3:AC:49:ILE:HD11	3:AC:165:ASN:ND2	2.24	0.53
3:AC:223:ARG:HG2	3:AC:224:ILE:N	2.22	0.53
5:AE:47:VAL:CA	5:AE:48:GLN:NE2	2.71	0.53
5:AE:53:PRO:HD2	5:AE:74:PRO:C	2.33	0.53
5:AE:165:VAL:HG12	5:AE:166:THR:N	2.17	0.53
5:AE:171:GLU:HB2	5:AE:185:LYS:NZ	2.06	0.53
7:AG:47:LYS:CD	7:AG:49:ASP:OD1	2.53	0.53
7:AG:107:LEU:HD23	7:AG:177:GLY:HA3	1.91	0.53
8:AH:122:THR:HB	8:AH:134:SER:OG	2.09	0.53
9:AI:140:GLY:O	33:Ag:137:UNK:N	2.40	0.53
10:AJ:17:ALA:CB	10:AJ:41:PHE:CA	2.86	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:23:VAL:N	10:AJ:24:GLY:HA3	2.19	0.53
11:AK:30:ILE:C	11:AK:33:LEU:HB3	2.33	0.53
11:AK:66:LYS:C	11:AK:69:GLN:OE1	2.52	0.53
12:AL:12:ASP:O	12:AL:94:ARG:HD2	2.09	0.53
12:AL:105:GLU:O	12:AL:108:GLU:N	2.41	0.53
13:AM:8:PRO:O	13:AM:9:ASN:O	2.27	0.53
13:AM:32:THR:OG1	13:AM:35:HIS:CE1	2.61	0.53
13:AM:57:THR:HG21	31:Ae:31:HIS:HD2	1.73	0.53
13:AM:111:ARG:HD2	13:AM:129:ALA:HB2	1.89	0.53
14:AN:37:LEU:CD1	14:AN:130:LYS:HB2	2.37	0.53
14:AN:122:GLY:HA2	14:AN:125:LEU:CD1	2.39	0.53
15:AO:67:LEU:HD23	15:AO:76:VAL:HG22	1.91	0.53
16:AP:77:ALA:HA	16:AP:80:LEU:HB2	1.90	0.53
17:AQ:113:LYS:O	17:AQ:114:LEU:O	2.27	0.53
18:AR:14:HIS:O	18:AR:15:LYS:C	2.49	0.53
18:AR:48:ALA:C	18:AR:52:ARG:HE	2.16	0.53
21:AU:18:TYR:HD1	21:AU:21:PHE:CE2	2.27	0.53
22:AV:2:ARG:CG	22:AV:3:VAL:H	2.22	0.53
22:AV:35:TYR:OH	22:AV:67:LEU:HB2	2.07	0.53
23:AW:6:LYS:CG	23:AW:7:ALA:H	2.20	0.53
23:AW:17:ALA:CA	23:AW:20:ARG:NH2	2.72	0.53
24:AX:42:GLY:O	24:AX:57:PHE:HD2	1.92	0.53
27:Aa:14:ILE:CG1	27:Aa:39:CYS:HB2	2.39	0.53
27:Aa:21:VAL:CG1	27:Aa:22:ILE:N	2.63	0.53
30:Ad:5:TRP:CZ3	30:Ad:12:ARG:NH1	2.77	0.53
30:Ad:25:PRO:HD3	30:Ad:28:ARG:NH2	2.23	0.53
34:BA:20:U:C2'	34:BA:21:G:O4'	2.55	0.53
34:BA:50:A:O2'	34:BA:52:G:C5	2.61	0.53
34:BA:131:C:C4	34:BA:232:G:C2	2.97	0.53
34:BA:350:G:H2'	34:BA:350:G:N3	2.23	0.53
34:BA:425:G:N2	34:BA:426:G:C1'	2.70	0.53
34:BA:491:G:N2	34:BA:492:G:H1'	2.23	0.53
34:BA:498:A:O2'	34:BA:500:G:O4'	2.26	0.53
34:BA:563:A:C5	34:BA:567:G:H1'	2.42	0.53
34:BA:568:G:N2	34:BA:883:C:H1'	2.22	0.53
34:BA:657:G:C6	34:BA:658:G:N7	2.76	0.53
34:BA:658:G:O2'	34:BA:659:U:H5'	2.09	0.53
34:BA:737:A:H5'	39:BJ:90:VAL:HG13	1.90	0.53
34:BA:769:G:C5'	34:BA:1513:A:H4'	2.37	0.53
34:BA:815:A:H1'	34:BA:817:C:H42	1.67	0.53
34:BA:828:A:C8	34:BA:829:G:C8	2.97	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:891:U:C5	34:BA:906:G:C2	2.95	0.53
34:BA:918:A:HO2'	34:BA:919:A:P	2.30	0.53
34:BA:998(A):C:H2'	34:BA:998(A):C:O2	2.08	0.53
34:BA:1077:G:H21	34:BA:1079:G:H3'	1.64	0.53
34:BA:1311:G:N1	34:BA:1327:C:C5	2.45	0.53
34:BA:1318:A:C2'	52:BW:37:ARG:C	2.81	0.53
34:BA:1353:G:C4	34:BA:1370:G:N2	2.76	0.53
35:BF:80:ILE:HD13	35:BF:211:ILE:HG21	1.90	0.53
37:BH:18:LYS:HE2	37:BH:20:TYR:CD2	2.44	0.53
37:BH:105:VAL:HG21	37:BH:121:VAL:HG21	1.88	0.53
37:BH:159:ARG:HD2	37:BH:163:GLU:CD	2.34	0.53
38:BI:105:VAL:O	38:BI:106:PRO:C	2.51	0.53
39:BJ:89:MET:HE2	51:BV:75:ILE:HG21	1.90	0.53
39:BJ:98:LEU:HD21	51:BV:28:GLU:HA	1.90	0.53
40:BK:36:LYS:HA	40:BK:36:LYS:HZ2	1.69	0.53
41:BL:18:ARG:HH12	41:BL:78:GLN:CD	2.16	0.53
41:BL:41:ARG:HH11	41:BL:41:ARG:C	2.17	0.53
42:BM:113:LYS:O	42:BM:115:GLY:N	2.38	0.53
44:BO:50:TYR:CZ	44:BO:54:ARG:HB3	2.44	0.53
46:BQ:22:ILE:HG21	46:BQ:67:GLU:OE1	2.08	0.53
48:BS:64:ARG:HG2	48:BS:65:ARG:N	2.22	0.53
48:BS:70:LEU:HD21	48:BS:81:LEU:HD13	1.90	0.53
49:BT:14:ASN:OD1	49:BT:14:ASN:C	2.51	0.53
50:BU:59:ILE:O	50:BU:59:ILE:HG23	2.08	0.53
52:BW:10:PHE:HA	52:BW:16:LEU:HD22	1.89	0.53
55:CA:446:ARG:NH1	55:CA:480:VAL:N	2.56	0.53
1:AA:5:A:C4	1:AA:6:A:C8	2.97	0.53
1:AA:270(J):G:C2	1:AA:270(K):C:C2	2.97	0.53
1:AA:270(X):G:N2	1:AA:270(Y):G:HO2'	2.06	0.53
1:AA:278:A:N7	1:AA:359:A:C2	2.77	0.53
1:AA:446:G:H4'	1:AA:449:A:N7	2.23	0.53
1:AA:523:C:C2'	1:AA:524:U:H5'	2.38	0.53
1:AA:526:A:OP1	1:AA:527:C:OP2	2.27	0.53
1:AA:581:C:OP1	18:AR:32:PHE:HB2	2.09	0.53
1:AA:697:C:O2'	1:AA:698:C:O4'	2.25	0.53
1:AA:699:A:H1'	1:AA:1634:A:N7	2.24	0.53
1:AA:736:C:C4	1:AA:737:C:C5	2.97	0.53
1:AA:786:C:C2'	1:AA:787:U:C5'	2.87	0.53
1:AA:858:U:C6	1:AA:859:G:N2	2.77	0.53
1:AA:885:C:N4	1:AA:890:A:O5'	2.37	0.53
1:AA:972:G:O4'	1:AA:972:G:OP2	2.27	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:999:U:O2	1:AA:1157:G:C2	2.62	0.53
1:AA:1142(A):A:N6	1:AA:1143:A:N7	2.57	0.53
1:AA:1249:U:O4	13:AM:21:ARG:NH1	2.42	0.53
1:AA:1249:U:C4	13:AM:21:ARG:CZ	2.92	0.53
1:AA:1433:U:O2	1:AA:1561:G:N2	2.42	0.53
1:AA:1559:G:H2'	1:AA:1559:G:N3	2.23	0.53
1:AA:1562:A:O2'	1:AA:1563:G:H5'	2.07	0.53
1:AA:1632:A:C6	1:AA:1633:G:N1	2.76	0.53
1:AA:1671:U:O2'	5:AE:129:HIS:HE1	1.92	0.53
1:AA:1752:C:H5''	1:AA:2862:G:OP1	2.08	0.53
1:AA:1787:A:O2'	1:AA:1788:C:H5'	2.08	0.53
1:AA:1819:A:H2'	1:AA:1820:U:OP2	2.09	0.53
1:AA:1826:G:H2'	1:AA:1827:C:C5'	2.36	0.53
1:AA:1858:G:HO2'	1:AA:1859:A:H8	1.57	0.53
1:AA:1952:A:C4	1:AA:1953:A:C2	2.96	0.53
1:AA:2055:C:H2'	1:AA:2055:C:O2	2.08	0.53
1:AA:2093:G:N3	1:AA:2198:A:N1	2.55	0.53
1:AA:2114:A:N6	1:AA:2170:A:H61	2.06	0.53
1:AA:2132:U:O2	1:AA:2133:G:H5''	2.09	0.53
1:AA:2135:A:N7	1:AA:2160:G:O2'	2.38	0.53
1:AA:2166:G:C2	1:AA:2172:U:O4	2.61	0.53
1:AA:2230:G:N2	1:AA:2231:C:C2	2.77	0.53
1:AA:2245:U:O2	1:AA:2435:A:H3'	2.09	0.53
1:AA:2266:A:C5'	1:AA:2267:A:N3	2.66	0.53
1:AA:2278:A:C6	1:AA:2279:G:N7	2.77	0.53
1:AA:2282:G:O2'	1:AA:2390:U:O4	2.21	0.53
1:AA:2355:C:C5	1:AA:2356:C:C4	2.96	0.53
1:AA:2384:G:H5''	1:AA:2386:C:OP1	2.09	0.53
1:AA:2403:C:O2	1:AA:2404:C:C6	2.61	0.53
1:AA:2519:U:C1'	1:AA:2542:A:N1	2.71	0.53
1:AA:2688:U:H1'	1:AA:2721:A:N6	2.21	0.53
1:AA:2731:G:C2	1:AA:2732:G:C2	2.96	0.53
1:AA:2749:A:OP2	1:AA:2749:A:C8	2.62	0.53
1:AA:2821:A:H3'	1:AA:2821:A:P	2.49	0.53
1:AA:2848:G:C2	1:AA:2867:G:N3	2.76	0.53
1:AA:2857:G:H3'	1:AA:2857:G:C8	2.43	0.53
1:AA:2892:A:H2'	1:AA:2893:G:H1'	1.91	0.53
4:AD:134:ARG:CA	4:AD:168:ARG:HH22	2.20	0.53
4:AD:181:GLU:HA	4:AD:270:ILE:CB	2.39	0.53
4:AD:244:ARG:HB3	4:AD:252:TRP:CD1	2.44	0.53
5:AE:67:PHE:O	5:AE:68:ALA:C	2.51	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:85:ASN:C	5:AE:87:GLU:N	2.67	0.53
5:AE:154:LYS:NZ	5:AE:156:MET:CB	2.71	0.53
7:AG:26:GLN:O	7:AG:27:ASN:HB2	2.09	0.53
7:AG:32:PRO:HB2	7:AG:163:ALA:CA	2.33	0.53
7:AG:39:ILE:N	7:AG:39:ILE:CD1	2.67	0.53
7:AG:59:GLU:HB3	7:AG:152:LEU:HD13	1.89	0.53
9:AI:33:PRO:O	9:AI:37:THR:N	2.34	0.53
10:AJ:72:PRO:HG2	10:AJ:77:LEU:CD2	1.03	0.53
11:AK:69:GLN:N	11:AK:70:LYS:HE2	2.24	0.53
12:AL:3:GLN:CD	12:AL:3:GLN:C	2.76	0.53
12:AL:121:VAL:O	12:AL:122:LEU:CB	2.56	0.53
13:AM:63:PRO:O	13:AM:65:ARG:HG3	2.08	0.53
13:AM:92:GLU:OE1	13:AM:92:GLU:HA	2.09	0.53
14:AN:6:ARG:HH21	14:AN:8:LYS:H	1.55	0.53
14:AN:6:ARG:CZ	14:AN:8:LYS:HG3	2.39	0.53
14:AN:48:GLU:HA	14:AN:51:ARG:CG	2.39	0.53
14:AN:65:PHE:O	14:AN:66:ILE:CG1	2.55	0.53
14:AN:85:LYS:NZ	24:AX:10:THR:OG1	2.37	0.53
15:AO:5:LYS:C	15:AO:5:LYS:HZ3	2.17	0.53
15:AO:17:ARG:O	15:AO:18:LEU:C	2.52	0.53
15:AO:26:LYS:HE2	15:AO:70:LEU:CB	2.39	0.53
15:AO:61:HIS:O	15:AO:62:ALA:C	2.51	0.53
16:AP:74:ALA:CB	16:AP:104:GLY:O	2.53	0.53
17:AQ:28:VAL:HG13	17:AQ:92:GLY:N	2.24	0.53
19:AS:13:ARG:C	19:AS:14:VAL:CG2	2.82	0.53
19:AS:23:GLU:HA	19:AS:93:GLU:HB3	1.89	0.53
19:AS:59:ALA:O	19:AS:60:GLU:OE1	2.26	0.53
20:AT:8:ARG:O	20:AT:10:VAL:HG22	2.08	0.53
20:AT:24:ILE:O	20:AT:25:ARG:O	2.26	0.53
20:AT:60:ASN:ND2	20:AT:61:ASN:ND2	2.55	0.53
20:AT:89:ALA:C	20:AT:91:GLY:N	2.63	0.53
21:AU:31:HIS:CE1	21:AU:33:LYS:HB3	2.43	0.53
22:AV:52:SER:O	22:AV:53:PRO:C	2.48	0.53
23:AW:3:TYR:HB3	23:AW:61:LEU:HB2	1.91	0.53
23:AW:5:LEU:HB2	23:AW:23:LYS:HZ3	1.73	0.53
23:AW:27:VAL:HG22	23:AW:85:HIS:CE1	2.35	0.53
23:AW:77:ASP:OD1	23:AW:78:LYS:HG2	2.09	0.53
23:AW:153:SER:O	23:AW:154:ASP:C	2.52	0.53
25:AY:30:LEU:HD11	25:AY:48:LEU:CD2	2.39	0.53
25:AY:50:ARG:HB3	25:AY:54:ARG:HH12	1.72	0.53
27:Aa:50:VAL:C	27:Aa:51:ASP:CG	2.76	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ab:10:LYS:HD2	28:Ab:15:ARG:NH1	2.23	0.53
31:Ae:53:PRO:HA	31:Ae:56:GLU:HG2	1.89	0.53
34:BA:81:G:C6	34:BA:82:U:O4	2.62	0.53
34:BA:105:G:H2'	34:BA:106:C:H6	1.69	0.53
34:BA:167:G:H2'	34:BA:168:G:C8	2.43	0.53
34:BA:186(B):C:C2'	34:BA:186(C):G:H5'	2.39	0.53
34:BA:300:A:C2'	34:BA:301:G:H5'	2.38	0.53
34:BA:509:A:OP1	37:BH:52:SER:HB3	2.08	0.53
34:BA:568:G:C4	34:BA:569:C:C5	2.97	0.53
34:BA:574:A:O3'	34:BA:575:G:H4'	2.06	0.53
34:BA:642:A:N3	41:BL:113:SER:OG	2.31	0.53
34:BA:646:U:H2'	34:BA:647:C:H6	1.73	0.53
34:BA:673:G:C2'	34:BA:674:G:C8	2.91	0.53
34:BA:716:A:C2'	34:BA:717:C:H5'	2.39	0.53
34:BA:818:G:C2'	34:BA:819:A:OP1	2.56	0.53
34:BA:832:C:C2	34:BA:855:G:N1	2.77	0.53
34:BA:861:G:H2'	34:BA:862:C:C6	2.43	0.53
34:BA:868:C:H3'	34:BA:869:G:H8	1.73	0.53
34:BA:1089:G:C2'	34:BA:1090:U:H5'	2.33	0.53
34:BA:1101:A:O2'	34:BA:1102:A:P	2.67	0.53
34:BA:1110:A:C6	34:BA:1111:A:C5	2.96	0.53
34:BA:1161:C:O2'	34:BA:1162:C:H5'	2.09	0.53
34:BA:1180:A:OP1	42:BM:102:LEU:CD1	2.48	0.53
34:BA:1506:U:H4'	34:BA:1507:A:OP2	2.08	0.53
35:BF:32:ILE:HD12	35:BF:190:THR:HG22	1.90	0.53
35:BF:79:ASP:O	35:BF:83:MET:HG2	2.08	0.53
36:BG:48:TYR:CD2	36:BG:48:TYR:C	2.87	0.53
36:BG:126:ARG:O	36:BG:127:ARG:CB	2.56	0.53
37:BH:126:ILE:HG21	37:BH:133:VAL:O	2.08	0.53
37:BH:128:VAL:HG21	37:BH:133:VAL:CG2	2.38	0.53
37:BH:193:ASP:C	37:BH:194:LEU:HD22	2.34	0.53
37:BH:201:GLN:O	37:BH:202:LEU:C	2.52	0.53
38:BI:76:ILE:HD12	38:BI:142:LEU:HD12	1.89	0.53
38:BI:145:LYS:O	38:BI:148:VAL:CB	2.50	0.53
39:BJ:20:ALA:O	39:BJ:24:GLU:HG3	2.08	0.53
39:BJ:79:LEU:O	39:BJ:85:VAL:HG21	2.07	0.53
41:BL:18:ARG:H	41:BL:18:ARG:CD	2.21	0.53
41:BL:48:TYR:CD1	41:BL:49:GLU:N	2.77	0.53
42:BM:23:ASN:ND2	42:BM:24:GLY:N	2.57	0.53
48:BS:79:ARG:HA	48:BS:82:ILE:CG1	2.38	0.53
49:BT:55:ARG:O	49:BT:56:ALA:C	2.51	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:22:VAL:HG11	55:CA:74:ASP:CG	2.30	0.53
55:CA:205:PHE:N	55:CA:229:GLY:HA3	2.23	0.53
55:CA:206:GLN:CG	55:CA:227:LYS:CG	2.73	0.53
55:CA:209:ILE:HA	55:CA:223:ILE:O	2.07	0.53
55:CA:308:SER:HA	55:CA:358:VAL:O	2.09	0.53
55:CA:422:ARG:O	55:CA:423:LYS:HB2	2.09	0.53
55:CA:601:ASN:CA	55:CA:602:ARG:CB	2.87	0.53
1:AA:52:A:H8	1:AA:52:A:O5'	1.92	0.53
1:AA:154:G:N1	1:AA:173:G:N1	2.56	0.53
1:AA:247:G:O2'	1:AA:386:G:N2	2.42	0.53
1:AA:400:G:H22	27:Aa:63:TYR:HH	1.57	0.53
1:AA:458:G:N7	30:Ad:38:GLY:HA2	2.24	0.53
1:AA:506:G:C2'	1:AA:507:A:OP2	2.57	0.53
1:AA:556:G:C2'	1:AA:557:U:O5'	2.57	0.53
1:AA:568:U:O4	1:AA:973:A:OP2	2.26	0.53
1:AA:598:G:H1'	13:AM:14:LYS:HG2	1.90	0.53
1:AA:608:A:H2'	1:AA:609:A:H5'	1.90	0.53
1:AA:744:G:O6	1:AA:745:G:O6	2.27	0.53
1:AA:805:G:O6	1:AA:2068:U:OP1	2.26	0.53
1:AA:944:G:O2'	1:AA:945:A:OP2	2.26	0.53
1:AA:1105:U:H2'	1:AA:1107:G:C5	2.40	0.53
1:AA:1222:C:H2'	1:AA:1223:C:C5'	2.39	0.53
1:AA:1322:A:N7	1:AA:1323:U:C5	2.77	0.53
1:AA:1344:G:C5	1:AA:1385:G:C8	2.97	0.53
1:AA:1364:G:O6	27:Aa:2:LYS:HG3	2.08	0.53
1:AA:1422:G:C2	1:AA:1423:G:C8	2.96	0.53
1:AA:1510:A:N3	1:AA:1511:A:C2	2.77	0.53
1:AA:1582:C:H3'	1:AA:1583:A:O4'	2.09	0.53
1:AA:1655:A:C2'	1:AA:1656:C:H6	2.22	0.53
1:AA:1842:G:N3	1:AA:1843:C:C6	2.77	0.53
1:AA:1925:C:H2'	1:AA:1925:C:O2	2.08	0.53
1:AA:1944:U:C1'	1:AA:1955:U:H1'	2.38	0.53
1:AA:2226:C:O2	1:AA:2226:C:C2'	2.47	0.53
1:AA:2238:G:O2'	1:AA:2239:G:C5'	2.55	0.53
1:AA:2253:G:C4	1:AA:2254:C:C5	2.97	0.53
1:AA:2273:A:C8	1:AA:2274:A:O4'	2.62	0.53
1:AA:2286:A:H62	29:Ac:30:THR:C	2.17	0.53
1:AA:2305:A:C3'	1:AA:2306:C:H5''	2.39	0.53
1:AA:2309:A:N3	1:AA:2309:A:C2'	2.71	0.53
1:AA:2312:U:P	7:AG:86:MET:HE2	2.48	0.53
1:AA:2393:A:H2'	1:AA:2394:C:O4'	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2571:C:O2'	5:AE:146:THR:HG23	2.08	0.53
1:AA:2690:C:C2'	1:AA:2691:C:OP2	2.56	0.53
1:AA:2781:A:H2'	1:AA:2782:G:H4'	1.89	0.53
1:AA:2838:G:O2'	1:AA:2839:G:H5'	2.08	0.53
1:AA:2848:G:N9	17:AQ:99:LEU:HD21	2.23	0.53
1:AA:2849:U:C2'	1:AA:2850:A:OP2	2.57	0.53
1:AA:2856:C:H2'	1:AA:2857:G:O5'	2.08	0.53
2:AB:50:G:OP1	16:AP:63:THR:OG1	2.24	0.53
2:AB:72:G:H5''	2:AB:73:A:OP1	2.09	0.53
2:AB:75:G:N2	23:AW:87:ASP:CG	2.66	0.53
2:AB:85:G:C2	2:AB:92:G:N3	2.77	0.53
3:AC:30:LYS:HD2	3:AC:185:LEU:HD11	1.91	0.53
3:AC:142:ALA:O	3:AC:143:GLY:C	2.50	0.53
4:AD:33:LEU:HD12	4:AD:61:LEU:HD21	1.91	0.53
4:AD:40:THR:HG22	4:AD:41:GLY:O	2.09	0.53
5:AE:51:PHE:HE1	5:AE:76:ARG:N	2.06	0.53
6:AF:18:ARG:CG	6:AF:18:ARG:NH1	2.72	0.53
6:AF:39:TRP:HZ3	6:AF:43:LYS:HD2	1.73	0.53
7:AG:35:GLU:HA	7:AG:100:TRP:CH2	2.44	0.53
7:AG:56:ALA:HB1	7:AG:68:PRO:HG2	1.90	0.53
8:AH:98:LEU:HD21	8:AH:123:PHE:HD2	1.73	0.53
11:AK:4:TYR:HB3	18:AR:64:ARG:HH22	1.74	0.53
11:AK:48:MET:C	11:AK:50:ASP:N	2.67	0.53
11:AK:104:LYS:O	11:AK:105:GLY:C	2.52	0.53
12:AL:63:VAL:CG1	12:AL:99:PHE:CZ	2.92	0.53
13:AM:117:GLU:CD	13:AM:117:GLU:N	2.67	0.53
13:AM:123:LEU:HB3	13:AM:130:PHE:CE2	2.44	0.53
14:AN:51:ARG:HH21	14:AN:55:VAL:HG21	1.73	0.53
15:AO:31:HIS:HD2	15:AO:34:ILE:HD11	1.72	0.53
16:AP:51:ALA:HB1	16:AP:73:LEU:CG	2.32	0.53
16:AP:59:LYS:H	16:AP:59:LYS:HE2	1.73	0.53
17:AQ:23:ARG:CZ	17:AQ:88:ILE:O	2.57	0.53
17:AQ:30:VAL:HB	17:AQ:91:ARG:H	1.73	0.53
17:AQ:53:ARG:NH2	17:AQ:102:ILE:CG1	2.72	0.53
18:AR:15:LYS:O	18:AR:16:LYS:C	2.52	0.53
20:AT:36:LEU:CD2	20:AT:51:LEU:HD11	2.39	0.53
21:AU:32:PRO:O	21:AU:33:LYS:CB	2.57	0.53
23:AW:69:THR:OG1	23:AW:89:PHE:O	2.27	0.53
23:AW:110:GLY:HA3	23:AW:144:LEU:HD12	1.89	0.53
24:AX:32:ARG:HB2	24:AX:32:ARG:CZ	2.38	0.53
25:AY:27:LEU:HD11	25:AY:48:LEU:HG	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AZ:9:VAL:HG21	26:AZ:52:HIS:O	2.08	0.53
26:AZ:40:THR:HG22	26:AZ:42:ALA:HB3	1.91	0.53
28:Ab:39:MET:HE3	28:Ab:39:MET:O	2.08	0.53
34:BA:68:G:H5'	34:BA:171:A:O2'	2.08	0.53
34:BA:145:G:N1	34:BA:178:C:C4	2.76	0.53
34:BA:196:A:H1'	34:BA:222:U:C1'	2.38	0.53
34:BA:465:A:C8	34:BA:467:G:C6	2.96	0.53
34:BA:505:G:C8	34:BA:535:A:H1'	2.43	0.53
34:BA:541:G:H2'	34:BA:542:G:H8	1.72	0.53
34:BA:563:A:H1'	34:BA:566:G:C2'	2.39	0.53
34:BA:598:U:C2	34:BA:599:C:C6	2.97	0.53
34:BA:696:A:N3	34:BA:786:G:O2'	2.35	0.53
34:BA:765:G:H8	34:BA:765:G:O5'	1.92	0.53
34:BA:876:G:O2'	41:BL:11:THR:CG2	2.56	0.53
34:BA:976:G:C2	34:BA:1362:C:C2	2.96	0.53
34:BA:977:A:N6	34:BA:1224:G:OP1	2.42	0.53
34:BA:992:U:H4'	34:BA:993:G:C5'	2.39	0.53
34:BA:1053:G:O6	34:BA:1199:U:H2'	2.07	0.53
34:BA:1068:G:N2	34:BA:1191:A:N3	2.50	0.53
34:BA:1069:C:H1'	34:BA:1191:A:C2	2.40	0.53
34:BA:1131:G:OP2	42:BM:20:ARG:HD3	2.09	0.53
34:BA:1133:G:C6	34:BA:1134:G:N7	2.77	0.53
34:BA:1185:G:C2'	34:BA:1186:G:H5'	2.39	0.53
34:BA:1504:G:H3'	34:BA:1504:G:P	2.49	0.53
35:BF:82:ARG:HB2	35:BF:94:ASN:HD22	1.68	0.53
35:BF:147:LYS:HE2	35:BF:147:LYS:CA	2.36	0.53
36:BG:179:ARG:O	36:BG:179:ARG:HG2	2.08	0.53
37:BH:106:TYR:CD2	37:BH:114:ARG:N	2.77	0.53
37:BH:159:ARG:HG2	37:BH:159:ARG:HH11	1.73	0.53
37:BH:168:ARG:CD	37:BH:168:ARG:N	2.68	0.53
37:BH:191:ARG:C	37:BH:191:ARG:CD	2.81	0.53
38:BI:76:ILE:CG2	38:BI:78:HIS:CD2	2.91	0.53
38:BI:96:PRO:C	38:BI:98:THR:H	2.17	0.53
38:BI:107:ARG:NH1	38:BI:107:ARG:CB	2.72	0.53
38:BI:117:ASP:O	38:BI:118:ILE:HG13	2.09	0.53
38:BI:122:GLU:CB	38:BI:126:ARG:HG3	2.39	0.53
39:BJ:46:ARG:HH22	51:BV:37:VAL:HG13	1.74	0.53
39:BJ:80:ARG:CB	39:BJ:88:VAL:HG21	2.38	0.53
40:BK:21:VAL:HG23	40:BK:22:LEU:CD2	2.38	0.53
40:BK:45:ASP:O	40:BK:49:ILE:HD12	2.07	0.53
40:BK:72:ARG:HG2	40:BK:142:GLU:CD	2.33	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:126:LYS:HZ1	41:BL:127:LEU:HD23	1.69	0.53
43:BN:78:ASN:O	43:BN:79:ARG:C	2.51	0.53
44:BO:84:VAL:HG23	44:BO:84:VAL:O	2.09	0.53
45:BP:21:LYS:O	45:BP:22:SER:O	2.27	0.53
45:BP:28:LYS:CE	45:BP:33:ARG:HH12	2.19	0.53
45:BP:41:ARG:CG	45:BP:42:THR:H	2.21	0.53
45:BP:82:VAL:O	45:BP:83:VAL:HB	2.09	0.53
45:BP:102:ARG:CZ	45:BP:109:GLY:C	2.82	0.53
46:BQ:8:GLU:HG3	46:BQ:22:ILE:N	2.23	0.53
46:BQ:16:ASP:OD1	46:BQ:34:LEU:HD13	2.07	0.53
46:BQ:82:MET:O	46:BQ:82:MET:HG2	2.08	0.53
48:BS:36:ILE:HG13	48:BS:59:MET:SD	2.49	0.53
48:BS:55:GLY:O	48:BS:56:LEU:C	2.51	0.53
51:BV:68:LYS:O	51:BV:72:ARG:HG3	2.08	0.53
54:BY:3:LYS:HD2	54:BY:14:TRP:HB2	1.90	0.53
55:CA:102:PHE:CB	55:CA:132:ARG:NH1	2.71	0.53
1:AA:172:C:C6	1:AA:173:G:C8	2.93	0.53
1:AA:181:A:C2	1:AA:434:U:O2'	2.62	0.53
1:AA:269:U:N3	1:AA:424:G:C6	2.76	0.53
1:AA:270(F):U:H2'	1:AA:270(G):C:O4'	2.08	0.53
1:AA:270(W):G:N2	1:AA:273:G:H4'	2.23	0.53
1:AA:410:G:C6	1:AA:411:G:O6	2.62	0.53
1:AA:412:A:C8	1:AA:2412:A:N3	2.76	0.53
1:AA:429:A:C2'	1:AA:430:G:C8	2.89	0.53
1:AA:483:A:N6	1:AA:497:A:C2	2.76	0.53
1:AA:531:C:H2'	1:AA:531:C:O2	2.07	0.53
1:AA:862:G:N3	1:AA:863:A:H1'	2.23	0.53
1:AA:1007:C:H2'	1:AA:1008:C:H5	1.70	0.53
1:AA:1050:A:C6	1:AA:2751:G:H3'	2.43	0.53
1:AA:1080:C:H6	1:AA:1080:C:H3'	1.74	0.53
1:AA:1116:C:OP2	1:AA:1116:C:C6	2.61	0.53
1:AA:1314:C:N3	1:AA:1315:C:C5	2.76	0.53
1:AA:1392:A:C5	1:AA:1393:A:C6	2.97	0.53
1:AA:1404:C:O2	1:AA:1405:U:C6	2.61	0.53
1:AA:1605:C:H3'	1:AA:1606:G:C8	2.44	0.53
1:AA:1746:G:C6	1:AA:1747:G:C5	2.96	0.53
1:AA:1784:A:C8	1:AA:1981:A:C4	2.97	0.53
1:AA:1813:G:H5''	1:AA:1814:G:OP2	2.09	0.53
1:AA:1899:G:C8	1:AA:1899:G:H3'	2.44	0.53
1:AA:1911:U:H6	1:AA:1911:U:O5'	1.92	0.53
1:AA:1921:G:O6	56:AA:3001:NMY:N6	2.42	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1996:C:C6	1:AA:1996:C:C4'	2.92	0.53
1:AA:2000:G:O6	1:AA:2001:A:N6	2.41	0.53
1:AA:2045:C:O2'	1:AA:2046:G:H5'	2.08	0.53
1:AA:2083:G:O2'	1:AA:2084:C:H5'	2.09	0.53
1:AA:2415:G:OP1	13:AM:61:ARG:CD	2.53	0.53
1:AA:2466:C:C4	1:AA:2485:G:C6	2.97	0.53
1:AA:2617:C:O2'	1:AA:2618:G:H5'	2.09	0.53
1:AA:2636:U:P	5:AE:79:ARG:HB3	2.48	0.53
1:AA:2637:U:H3	1:AA:2782:G:N2	2.07	0.53
1:AA:2653:U:C4	1:AA:2669:G:N2	2.70	0.53
1:AA:2740:A:C6	1:AA:2764:A:C4	2.97	0.53
1:AA:2776:A:C8	1:AA:2781:A:N7	2.77	0.53
2:AB:99:A:C6	2:AB:100:G:C6	2.97	0.53
3:AC:209:LEU:HG	3:AC:212:VAL:CG2	2.39	0.53
4:AD:176:ARG:HG3	4:AD:176:ARG:NH1	2.09	0.53
4:AD:196:VAL:HG12	4:AD:198:ASN:N	2.24	0.53
4:AD:234:GLY:CA	4:AD:241:PRO:HG3	2.38	0.53
5:AE:38:THR:HG22	5:AE:39:PRO:N	2.23	0.53
6:AF:158:THR:HG22	6:AF:160:ASN:H	1.74	0.53
7:AG:120:LEU:HA	7:AG:181:ARG:HG2	1.89	0.53
7:AG:125:PHE:CD1	7:AG:131:TYR:N	2.76	0.53
7:AG:177:GLY:O	7:AG:178:PHE:CB	2.56	0.53
8:AH:35:VAL:CG1	8:AH:75:ALA:HB2	2.39	0.53
8:AH:101:ARG:O	8:AH:116:GLU:HA	2.09	0.53
10:AJ:118:THR:HG22	10:AJ:119:ASP:N	2.23	0.53
11:AK:42:TRP:O	11:AK:43:THR:CG2	2.53	0.53
11:AK:58:ASP:O	11:AK:59:LYS:C	2.52	0.53
13:AM:33:ARG:HG3	13:AM:35:HIS:CD2	2.43	0.53
13:AM:52:GLU:OE2	31:Ae:52:LYS:HE2	2.09	0.53
14:AN:134:ARG:NE	14:AN:137:TYR:H	2.06	0.53
15:AO:37:THR:HG23	15:AO:40:LYS:CD	2.37	0.53
15:AO:53:HIS:ND1	15:AO:56:LYS:HE2	2.24	0.53
16:AP:28:VAL:CG1	16:AP:90:GLY:HA2	2.39	0.53
17:AQ:3:ARG:HA	17:AQ:6:LEU:HD21	1.89	0.53
17:AQ:56:GLY:C	17:AQ:57:PHE:CD1	2.87	0.53
17:AQ:104:ASN:HA	17:AQ:108:ARG:HH12	1.74	0.53
18:AR:47:TYR:OH	19:AS:77:ALA:CA	2.57	0.53
21:AU:50:LYS:HG3	21:AU:85:PRO:HD2	1.90	0.53
22:AV:97:ARG:CA	22:AV:101:LYS:HG3	2.27	0.53
23:AW:141:VAL:HG12	23:AW:143:GLY:H	1.73	0.53
23:AW:157:LEU:HD22	23:AW:161:VAL:HG22	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:165:VAL:CG1	23:AW:166:SER:H	1.97	0.53
24:AX:56:ASP:CG	24:AX:58:THR:HB	2.34	0.53
25:AY:21:ARG:O	25:AY:24:LYS:HB2	2.08	0.53
27:Aa:31:ILE:HD13	27:Aa:31:ILE:N	2.10	0.53
30:Ad:5:TRP:CE3	30:Ad:5:TRP:C	2.86	0.53
30:Ad:8:ASN:ND2	30:Ad:10:ARG:N	2.56	0.53
31:Ae:50:LEU:C	31:Ae:53:PRO:HD2	2.33	0.53
31:Ae:58:ILE:HA	31:Ae:61:LEU:HD12	1.90	0.53
33:Ag:3:UNK:O	33:Ag:144:UNK:N	2.41	0.53
34:BA:120:A:C8	34:BA:122:G:C6	2.96	0.53
34:BA:515:G:H3'	34:BA:516:U:H6	1.73	0.53
34:BA:551:U:O2'	45:BP:86:ARG:HD2	2.09	0.53
34:BA:570:G:O2'	34:BA:819:A:H8	1.85	0.53
34:BA:587:G:H4'	41:BL:3:THR:O	2.09	0.53
34:BA:671:G:C2	34:BA:672:U:H1'	2.44	0.53
34:BA:739:C:O2'	34:BA:740:U:H5'	2.09	0.53
34:BA:745:C:H2'	34:BA:746:A:C8	2.44	0.53
34:BA:754:C:H1'	48:BS:69:TYR:CG	2.44	0.53
34:BA:795:C:O2'	34:BA:1506:U:C1'	2.55	0.53
34:BA:799:G:N2	34:BA:800:G:H1'	2.23	0.53
34:BA:867:G:N2	34:BA:868:C:C2	2.77	0.53
34:BA:895:G:H2'	34:BA:896:C:H6	1.73	0.53
34:BA:913:A:O2'	34:BA:914:A:P	2.66	0.53
34:BA:1037:C:C4	34:BA:1038:C:N4	2.76	0.53
34:BA:1212:U:O2'	34:BA:1213:A:H8	1.92	0.53
34:BA:1234:C:C4	34:BA:1235:U:C4	2.97	0.53
34:BA:1263:C:O2'	34:BA:1264:C:H5'	2.09	0.53
34:BA:1326:C:O2'	34:BA:1327:C:H5'	2.08	0.53
34:BA:1361:G:H3'	34:BA:1361:G:C8	2.43	0.53
34:BA:1413:A:C4	34:BA:1488:G:C2	2.97	0.53
35:BF:80:ILE:HD13	35:BF:212:GLN:HE21	1.73	0.53
35:BF:115:LEU:HD23	35:BF:149:LEU:CD2	2.35	0.53
35:BF:209:ARG:HD2	35:BF:209:ARG:C	2.33	0.53
37:BH:10:ARG:NH1	37:BH:11:LEU:HD23	2.24	0.53
38:BI:34:VAL:O	38:BI:41:VAL:HA	2.09	0.53
39:BJ:12:PRO:HG2	39:BJ:13:ASN:H	1.74	0.53
39:BJ:26:ILE:CG2	39:BJ:30:LEU:HD11	2.39	0.53
39:BJ:47:ARG:O	51:BV:78:LEU:HD22	2.09	0.53
39:BJ:68:PRO:O	39:BJ:69:GLU:C	2.51	0.53
40:BK:10:ARG:HB2	40:BK:10:ARG:HH11	1.74	0.53
41:BL:78:GLN:O	41:BL:79:VAL:C	2.52	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:91:ARG:CG	50:BU:34:LYS:HB2	2.27	0.53
42:BM:7:THR:O	42:BM:83:ARG:CZ	2.56	0.53
43:BN:31:GLY:HA2	43:BN:81:THR:OG1	2.08	0.53
45:BP:7:ILE:HG22	45:BP:8:ASN:N	2.23	0.53
46:BQ:46:LYS:O	46:BQ:47:ASP:HB2	2.09	0.53
48:BS:36:ILE:CD1	48:BS:60:VAL:HG22	2.36	0.53
49:BT:20:VAL:HG11	49:BT:32:TYR:CD2	2.44	0.53
51:BV:75:ILE:HG22	51:BV:76:LEU:HD13	1.89	0.53
52:BW:42:PRO:O	52:BW:44:MET:N	2.42	0.53
52:BW:79:THR:HG22	52:BW:79:THR:O	2.08	0.53
53:BX:87:LYS:O	53:BX:91:LEU:HG	2.08	0.53
55:CA:9:ALA:O	55:CA:96:LEU:N	2.41	0.53
55:CA:249:ALA:H	55:CA:275:ALA:HB3	1.73	0.53
55:CA:251:VAL:CG1	55:CA:273:ILE:CA	2.53	0.53
55:CA:390:ARG:CB	55:CA:391:GLU:CA	2.86	0.53
55:CA:492:GLY:HA2	55:CA:520:GLU:HB2	1.89	0.53
1:AA:14:A:H2	1:AA:2625:G:HO2'	1.56	0.53
1:AA:136:G:H2'	1:AA:137:C:C6	2.44	0.53
1:AA:219:G:C2'	1:AA:220:G:H5'	2.38	0.53
1:AA:269:U:N3	1:AA:424:G:N1	2.57	0.53
1:AA:295:G:N2	1:AA:344:G:H1'	2.23	0.53
1:AA:497:A:H2'	1:AA:498:G:C8	2.43	0.53
1:AA:650:C:C4	1:AA:651:G:C2	2.97	0.53
1:AA:720:C:C2	1:AA:721:C:C5	2.96	0.53
1:AA:729:G:OP1	4:AD:13:ARG:NH2	2.39	0.53
1:AA:761:A:H5''	1:AA:762:U:OP1	2.09	0.53
1:AA:822:U:OP2	1:AA:945:A:O3'	2.26	0.53
1:AA:856:C:H1'	24:AX:69:PHE:HE2	1.69	0.53
1:AA:874:G:N1	1:AA:875:G:C6	2.77	0.53
1:AA:950:G:C6	1:AA:951:C:N4	2.77	0.53
1:AA:1050:A:C2'	1:AA:2752:C:OP1	2.57	0.53
1:AA:1059:G:H2'	10:AJ:75:SER:H	1.68	0.53
1:AA:1076:C:H2'	1:AA:1077:A:O4'	2.08	0.53
1:AA:1082:U:C4	1:AA:1086:A:C2	2.97	0.53
1:AA:1122:G:C2	1:AA:1123:C:C6	2.96	0.53
1:AA:1142(A):A:N3	1:AA:1143:A:H5''	2.24	0.53
1:AA:1338:G:O2'	21:AU:16:LYS:HD3	2.08	0.53
1:AA:1374:G:C5	1:AA:1375:C:C5	2.96	0.53
1:AA:1427:A:O2'	1:AA:1428:C:OP2	2.27	0.53
1:AA:1492:G:N3	1:AA:1493:C:C4	2.77	0.53
1:AA:1543:A:N7	1:AA:1544:C:H1'	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1607:C:H2'	1:AA:1607:C:O2	2.09	0.53
1:AA:1672:C:C2'	1:AA:1673:U:H5''	2.39	0.53
1:AA:1742:C:C3'	1:AA:1743:G:C5'	2.86	0.53
1:AA:1879:C:H2'	1:AA:1880:C:O4'	2.09	0.53
1:AA:1991:U:H2'	1:AA:1992:G:OP2	2.09	0.53
1:AA:1993:U:C6	1:AA:1993:U:C3'	2.92	0.53
1:AA:2155:G:H2'	1:AA:2156:G:O5'	2.09	0.53
1:AA:2186:G:N1	1:AA:2187:G:O6	2.42	0.53
1:AA:2305:A:C6	7:AG:42:GLY:HA2	2.43	0.53
1:AA:2331:G:C5	1:AA:2332:U:C2	2.97	0.53
1:AA:2375:G:H1'	1:AA:2377:A:N7	2.22	0.53
1:AA:2505:G:O6	1:AA:2576:G:N9	2.42	0.53
1:AA:2521:C:H2'	1:AA:2522:U:O5'	2.09	0.53
1:AA:2582:G:H21	1:AA:2583:G:H1'	1.68	0.53
1:AA:2629:A:N7	1:AA:2896:C:H6	2.07	0.53
1:AA:2718:G:C6	1:AA:2719:G:C5	2.97	0.53
1:AA:2731:G:H4'	5:AE:168:MET:CE	2.38	0.53
1:AA:2740:A:H61	1:AA:2764:A:H1'	1.74	0.53
2:AB:32:C:C3'	2:AB:33:G:H8	2.21	0.53
2:AB:62:C:O2	2:AB:63:G:C8	2.62	0.53
3:AC:225:ASN:OD1	3:AC:227:HIS:HB2	2.08	0.53
4:AD:65:ILE:HD12	4:AD:104:TYR:CB	2.38	0.53
4:AD:85:ASP:HB2	4:AD:87:ASN:ND2	2.23	0.53
5:AE:26:ILE:HG13	5:AE:181:LEU:HD23	1.91	0.53
5:AE:91:VAL:HG13	5:AE:93:VAL:HG22	1.90	0.53
5:AE:104:VAL:HG11	5:AE:198:VAL:HG22	1.89	0.53
5:AE:109:LYS:H	5:AE:191:PRO:HD3	1.74	0.53
6:AF:71:GLY:O	6:AF:73:ALA:N	2.31	0.53
6:AF:103:LYS:HA	6:AF:106:ARG:NE	2.24	0.53
7:AG:47:LYS:NZ	7:AG:73:ALA:HB3	2.23	0.53
8:AH:137:ASP:HB3	8:AH:140:LYS:CD	2.39	0.53
10:AJ:64:SER:CA	10:AJ:65:PHE:HB3	2.38	0.53
11:AK:23:LEU:HD23	11:AK:60:ILE:HG21	1.90	0.53
11:AK:73:THR:OG1	11:AK:83:LYS:HD3	2.09	0.53
12:AL:68:GLU:O	12:AL:68:GLU:CG	2.52	0.53
12:AL:103:ALA:O	12:AL:105:GLU:N	2.42	0.53
13:AM:56:SER:HG	31:Ae:27:THR:CB	2.21	0.53
13:AM:122:PRO:CB	13:AM:138:LEU:CA	2.87	0.53
14:AN:6:ARG:CG	14:AN:70:PRO:HB3	2.38	0.53
14:AN:45:GLN:C	14:AN:47:ILE:N	2.65	0.53
14:AN:77:LYS:O	14:AN:78:PRO:O	2.26	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:22:ARG:HA	15:AO:47:PHE:HE2	1.72	0.53
16:AP:78:LEU:HD13	16:AP:79:ALA:CB	2.39	0.53
17:AQ:30:VAL:O	17:AQ:49:VAL:HA	2.09	0.53
17:AQ:97:ALA:O	17:AQ:99:LEU:N	2.42	0.53
18:AR:41:ALA:O	18:AR:42:ALA:C	2.51	0.53
18:AR:74:LEU:O	18:AR:75:ASN:O	2.27	0.53
19:AS:67:GLY:HA2	19:AS:94:LEU:HA	1.91	0.53
23:AW:20:ARG:HG3	23:AW:20:ARG:HH11	1.74	0.53
23:AW:95:PRO:CB	23:AW:130:PRO:HA	2.39	0.53
23:AW:99:TYR:CD1	23:AW:126:VAL:HG23	2.44	0.53
25:AY:59:LEU:HD11	25:AY:63:ARG:HE	1.74	0.53
26:AZ:50:VAL:HG12	26:AZ:51:ALA:O	2.08	0.53
27:Aa:42:PHE:H	27:Aa:58:ARG:HG3	1.74	0.53
27:Aa:58:ARG:HG2	27:Aa:62:ARG:NH2	2.24	0.53
28:Ab:60:VAL:HG22	28:Ab:60:VAL:O	2.08	0.53
31:Ae:6:THR:HG23	31:Ae:9:GLY:CA	2.39	0.53
31:Ae:13:ARG:HG3	31:Ae:13:ARG:HH11	1.73	0.53
34:BA:35:G:C6	34:BA:36:C:C4	2.97	0.53
34:BA:151:A:C5	34:BA:152:A:C2	2.97	0.53
34:BA:216:G:H2'	34:BA:217:C:C6	2.44	0.53
34:BA:258:G:C6	34:BA:259:G:C6	2.97	0.53
34:BA:261:U:C4	34:BA:264:U:OP2	2.62	0.53
34:BA:738:C:N4	34:BA:739:C:N4	2.56	0.53
34:BA:828:A:C2'	34:BA:829:G:O5'	2.57	0.53
34:BA:854:G:H5''	34:BA:871:U:N3	2.20	0.53
34:BA:857:C:C2	34:BA:858:G:C1'	2.92	0.53
34:BA:915:A:O5'	34:BA:915:A:C8	2.62	0.53
34:BA:945:G:N1	34:BA:946:A:N7	2.57	0.53
34:BA:947:G:C2	34:BA:948:C:C6	2.97	0.53
34:BA:980:C:H3'	34:BA:981:U:C5	2.44	0.53
34:BA:1058:G:H8	34:BA:1058:G:O5'	1.91	0.53
34:BA:1108:G:C5	34:BA:1109:C:N4	2.77	0.53
34:BA:1134:G:N2	34:BA:1136:U:O4	2.42	0.53
34:BA:1203:C:C2	34:BA:1204:A:C8	2.97	0.53
34:BA:1309:G:C8	34:BA:1330:U:N3	2.77	0.53
34:BA:1319:A:C8	52:BW:70:LYS:NZ	2.75	0.53
34:BA:1419:G:HO2'	34:BA:1420:C:H6	1.52	0.53
35:BF:58:ILE:HG22	35:BF:221:LEU:CD1	2.38	0.53
35:BF:181:PHE:HE1	41:BL:72:PRO:HD2	1.74	0.53
36:BG:12:LEU:CD1	36:BG:18:TRP:CH2	2.92	0.53
36:BG:28:GLN:C	36:BG:30:ARG:HD3	2.33	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:32:ALA:C	37:BH:34:GLU:N	2.63	0.53
37:BH:205:GLU:CD	38:BI:100:VAL:H	2.16	0.53
38:BI:80:ILE:HG22	41:BL:104:ARG:NH2	2.24	0.53
38:BI:110:LEU:HD22	38:BI:139:LEU:HD21	1.91	0.53
40:BK:76:ARG:HD3	40:BK:156:TRP:CD1	2.43	0.53
40:BK:78:ARG:C	40:BK:84:ASN:HA	2.25	0.53
41:BL:62:TYR:O	41:BL:63:LEU:O	2.26	0.53
43:BN:44:VAL:HG22	43:BN:66:ARG:HD3	1.91	0.53
44:BO:57:THR:OG1	44:BO:59:TYR:CB	2.57	0.53
44:BO:101:SER:OG	44:BO:103:LEU:HG	2.08	0.53
45:BP:69:TYR:O	45:BP:100:ILE:CD1	2.57	0.53
46:BQ:16:ASP:HB3	46:BQ:34:LEU:HD12	0.55	0.53
46:BQ:19:LEU:CD2	46:BQ:30:ALA:HA	2.38	0.53
46:BQ:97:PRO:CG	46:BQ:101:GLN:CG	2.86	0.53
50:BU:8:GLY:O	50:BU:56:VAL:CG1	2.53	0.53
51:BV:20:ALA:HB1	51:BV:55:ARG:NH2	2.24	0.53
51:BV:39:VAL:O	51:BV:43:PHE:CE1	2.62	0.53
52:BW:4:SER:CA	52:BW:5:LEU:CB	2.86	0.53
53:BX:79:ARG:HG3	53:BX:79:ARG:HH11	1.73	0.53
53:BX:85:MET:O	53:BX:86:ARG:C	2.52	0.53
55:CA:8:ILE:HD11	55:CA:96:LEU:HD11	1.88	0.53
55:CA:15:ASP:HA	57:CA:701:GCP:O2G	2.08	0.53
55:CA:80:ASP:HA	55:CA:365:HIS:CB	2.39	0.53
55:CA:174:LEU:CD1	55:CA:175:ASP:H	2.22	0.53
55:CA:338:GLU:C	55:CA:340:VAL:H	2.17	0.53
1:AA:67:U:O5'	1:AA:67:U:C6	2.61	0.53
1:AA:140:A:N3	1:AA:1408:C:H1'	2.22	0.53
1:AA:175:G:N2	1:AA:176:G:C4	2.77	0.53
1:AA:243:U:N3	1:AA:244:A:C8	2.77	0.53
1:AA:274:G:N2	1:AA:274:G:OP2	2.42	0.53
1:AA:308:G:C2	1:AA:329:G:C2	2.97	0.53
1:AA:319:C:O2'	1:AA:320:A:O4'	2.27	0.53
1:AA:328:U:O4'	22:AV:1:MET:HE1	2.09	0.53
1:AA:600:G:H1'	6:AF:105:VAL:HG21	1.91	0.53
1:AA:624:C:OP2	13:AM:105:LEU:HD23	2.08	0.53
1:AA:705:A:N7	1:AA:727:A:C8	2.77	0.53
1:AA:714:U:O2	1:AA:717:G:N7	2.42	0.53
1:AA:817:C:O2	1:AA:839:U:C5'	2.57	0.53
1:AA:829:A:C5'	1:AA:830:G:H5''	2.36	0.53
1:AA:847:U:C4	1:AA:933:A:H2	2.27	0.53
1:AA:848:G:N2	1:AA:931:G:N7	2.57	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:869:G:C6	1:AA:909:A:N6	2.77	0.53
1:AA:871:U:H5''	14:AN:9:TYR:CE1	2.44	0.53
1:AA:872:A:O2'	14:AN:66:ILE:HG12	2.09	0.53
1:AA:878:A:C2'	1:AA:879:G:C8	2.88	0.53
1:AA:945:A:C3'	1:AA:946:G:C5'	2.87	0.53
1:AA:954:G:C2'	1:AA:955:C:H5'	2.39	0.53
1:AA:1046:A:C5	9:AI:6:ASN:CA	2.92	0.53
1:AA:1223:C:N1	1:AA:1227:A:N1	2.57	0.53
1:AA:1441:G:N2	1:AA:1442:G:H1'	2.24	0.53
1:AA:1451:C:C3'	1:AA:1453:A:H4'	2.38	0.53
1:AA:1475:G:N7	1:AA:1517:G:C2	2.77	0.53
1:AA:1545(A):A:O5'	1:AA:1545(A):A:C8	2.58	0.53
1:AA:1579:A:N6	1:AA:1581:G:H21	2.07	0.53
1:AA:1660:C:O2'	1:AA:1661:G:H5'	2.09	0.53
1:AA:1799:G:H22	4:AD:157:ARG:NH2	2.04	0.53
1:AA:1842:G:O2'	1:AA:1843:C:C5'	2.54	0.53
1:AA:1902:C:C2'	1:AA:1903:G:C5'	2.70	0.53
1:AA:2132:U:O2	1:AA:2134:A:C5	2.62	0.53
1:AA:2226:C:C2	4:AD:262:ARG:NH2	2.77	0.53
1:AA:2312:U:OP2	7:AG:86:MET:HG2	2.09	0.53
1:AA:2348:U:H2'	1:AA:2349:G:O5'	2.09	0.53
1:AA:2470:G:O6	1:AA:2481:G:C2	2.62	0.53
1:AA:2586:C:H6	1:AA:2586:C:H3'	1.74	0.53
1:AA:2588:G:N1	1:AA:2607:G:C6	2.77	0.53
1:AA:2603:G:OP2	24:AX:1:MET:SD	2.67	0.53
1:AA:2668:G:O2'	1:AA:2669:G:H5'	2.09	0.53
1:AA:2699:C:O2'	1:AA:2700:C:H5'	2.09	0.53
1:AA:2766:G:C2	1:AA:2767:C:C5	2.96	0.53
1:AA:2787:C:O2'	5:AE:61:ARG:NH1	2.42	0.53
1:AA:2791:C:OP2	1:AA:2893:G:C4	2.62	0.53
1:AA:2845:G:OP1	17:AQ:57:PHE:O	2.27	0.53
1:AA:2848:G:O4'	17:AQ:99:LEU:HD11	2.09	0.53
2:AB:7:G:C4'	16:AP:29:PHE:CE2	2.84	0.53
3:AC:22:ILE:CD1	3:AC:190:ARG:NH1	2.71	0.53
4:AD:9:TYR:OH	4:AD:91:ARG:CZ	2.56	0.53
4:AD:234:GLY:CA	4:AD:241:PRO:CG	2.86	0.53
6:AF:31:HIS:CG	13:AM:14:LYS:HZ2	2.27	0.53
7:AG:34:LEU:O	7:AG:34:LEU:HD12	2.09	0.53
7:AG:57:ALA:CA	7:AG:68:PRO:N	2.68	0.53
10:AJ:64:SER:HB2	10:AJ:65:PHE:HB3	1.91	0.53
11:AK:99:LEU:HD12	11:AK:103:VAL:HG11	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:107:LEU:HD11	11:AK:113:GLY:C	2.33	0.53
12:AL:13:ASN:O	12:AL:14:THR:O	2.26	0.53
13:AM:124:LYS:HD2	13:AM:142:GLY:O	2.09	0.53
13:AM:126:VAL:CB	13:AM:146:VAL:H	2.22	0.53
13:AM:127:ALA:O	13:AM:147:LEU:HD13	2.09	0.53
14:AN:45:GLN:CA	14:AN:48:GLU:HG2	2.39	0.53
14:AN:97:VAL:HG11	14:AN:103:MET:HE3	1.91	0.53
15:AO:67:LEU:HD21	15:AO:72:ASP:H	1.74	0.53
15:AO:100:LEU:O	28:Ab:44:THR:CG2	2.57	0.53
18:AR:50:ARG:NH1	18:AR:50:ARG:CB	2.57	0.53
18:AR:98:LEU:O	18:AR:99:ALA:C	2.52	0.53
19:AS:20:LEU:HB2	19:AS:95:LEU:CD2	2.31	0.53
20:AT:58:ALA:HA	20:AT:62:HIS:HB3	1.90	0.53
20:AT:87:PRO:C	20:AT:94:ASP:OD2	2.52	0.53
21:AU:12:VAL:HG13	21:AU:14:SER:CB	2.39	0.53
21:AU:72:LYS:O	21:AU:73:ARG:CB	2.47	0.53
22:AV:13:VAL:HA	22:AV:73:ARG:NH2	2.23	0.53
22:AV:26:LYS:HE3	22:AV:36:ALA:HB3	1.91	0.53
22:AV:65:ALA:CB	22:AV:66:PRO:CD	2.85	0.53
23:AW:95:PRO:HD2	23:AW:130:PRO:HA	1.91	0.53
23:AW:152:ALA:HB3	23:AW:168:GLU:N	2.23	0.53
23:AW:153:SER:N	23:AW:168:GLU:HB2	2.23	0.53
24:AX:22:GLY:O	24:AX:38:VAL:HA	2.09	0.53
25:AY:25:ARG:HH11	25:AY:25:ARG:CG	2.17	0.53
25:AY:30:LEU:O	25:AY:33:GLN:HB2	2.09	0.53
25:AY:52:ILE:HG23	25:AY:55:LEU:HD22	1.90	0.53
29:Ac:36:LEU:O	29:Ac:51:GLU:CB	2.36	0.53
34:BA:14:U:C6	34:BA:16:A:OP2	2.62	0.53
34:BA:112:G:N2	34:BA:113:G:N9	2.57	0.53
34:BA:129(A):G:C8	34:BA:129(A):G:C3'	2.89	0.53
34:BA:286:G:H2'	34:BA:287:U:H6	1.73	0.53
34:BA:307:C:H41	34:BA:308:C:H41	1.53	0.53
34:BA:424:G:O2'	34:BA:425:G:H5'	2.09	0.53
34:BA:539:A:OP1	45:BP:114:LYS:CE	2.56	0.53
34:BA:593:G:C6	34:BA:594:G:C5	2.97	0.53
34:BA:667:G:OP2	34:BA:732:C:O2'	2.25	0.53
34:BA:789:U:H2'	34:BA:790:A:H3'	1.90	0.53
34:BA:969:A:H5'	34:BA:970:C:OP2	2.08	0.53
34:BA:1053:G:N7	34:BA:1200:C:OP2	2.42	0.53
34:BA:1083:U:H3'	34:BA:1084:G:H8	1.74	0.53
34:BA:1138:G:N1	34:BA:1140:C:C5	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1230:C:H5''	42:BM:127:LYS:HE3	1.91	0.53
34:BA:1284:C:H2'	34:BA:1285:A:C8	2.44	0.53
34:BA:1285:A:O4'	34:BA:1286:A:N7	2.42	0.53
34:BA:1376:U:C2	34:BA:1377:A:N7	2.77	0.53
34:BA:1422:G:N1	34:BA:1423:G:C5	2.77	0.53
34:BA:1453:G:H2'	34:BA:1454:G:C4'	2.31	0.53
34:BA:1479:C:H2'	34:BA:1480:G:H8	1.73	0.53
35:BF:105:PHE:O	35:BF:109:SER:OG	2.21	0.53
35:BF:144:ARG:HD3	35:BF:148:TYR:OH	2.09	0.53
35:BF:166:ASP:O	35:BF:169:LYS:HD3	2.09	0.53
36:BG:12:LEU:CD2	47:BR:58:LYS:H	2.20	0.53
36:BG:205:GLY:O	36:BG:206:GLU:CB	2.54	0.53
37:BH:10:ARG:HH11	37:BH:11:LEU:HD23	1.74	0.53
37:BH:61:LYS:HA	37:BH:203:VAL:CG2	2.39	0.53
37:BH:128:VAL:HA	37:BH:146:ILE:CG2	2.39	0.53
37:BH:154:ASN:ND2	37:BH:155:LEU:CD2	2.72	0.53
38:BI:35:GLY:HA3	38:BI:41:VAL:HG12	1.89	0.53
38:BI:104:ALA:N	38:BI:107:ARG:HH12	2.06	0.53
38:BI:149:GLU:O	38:BI:152:ARG:N	2.42	0.53
40:BK:72:ARG:NH2	40:BK:138:LYS:HZ3	2.04	0.53
41:BL:104:ARG:O	41:BL:105:ARG:C	2.51	0.53
42:BM:50:LEU:CD2	42:BM:51:ARG:NH1	2.72	0.53
48:BS:6:GLU:C	48:BS:8:LYS:N	2.64	0.53
48:BS:12:ILE:HG12	48:BS:31:LEU:HD11	1.91	0.53
50:BU:15:MET:H	50:BU:15:MET:HE3	1.74	0.53
50:BU:27:PHE:O	50:BU:36:ILE:CD1	2.57	0.53
51:BV:38:GLU:CD	51:BV:38:GLU:N	2.64	0.53
54:BY:8:THR:HG22	54:BY:21:TYR:CE2	2.44	0.53
55:CA:317:PRO:HD3	55:CA:519:TYR:CD2	2.44	0.53
1:AA:119:A:O2'	1:AA:120:U:P	2.67	0.52
1:AA:195:A:OP2	1:AA:196:A:O3'	2.27	0.52
1:AA:247:G:H1	31:Ae:11:LYS:NZ	2.07	0.52
1:AA:308:G:N7	1:AA:501:A:C4	2.78	0.52
1:AA:364:C:C4	1:AA:365:C:N4	2.76	0.52
1:AA:539:G:H2'	1:AA:540:G:C8	2.44	0.52
1:AA:607:U:O2	1:AA:607:U:C2'	2.48	0.52
1:AA:702:G:C2'	1:AA:703:U:H5'	2.39	0.52
1:AA:809:G:O2'	1:AA:1254:A:N3	2.35	0.52
1:AA:875:G:C2	1:AA:876:C:N3	2.78	0.52
1:AA:991:C:O2'	1:AA:992:C:H5'	2.09	0.52
1:AA:1024:G:OP2	1:AA:1025:G:N2	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1062:G:N7	1:AA:1063:G:C5	2.77	0.52
1:AA:1075:C:O2	1:AA:1075:C:H2'	2.08	0.52
1:AA:1152:C:O4'	18:AR:77:SER:HA	2.09	0.52
1:AA:1201:C:N4	1:AA:1241:A:H61	2.04	0.52
1:AA:1255:U:C5'	1:AA:1256:G:C5'	2.69	0.52
1:AA:1263:U:C5'	28:Ab:10:LYS:HZ3	2.21	0.52
1:AA:1287:A:H2'	1:AA:1287:A:N3	2.24	0.52
1:AA:1291:C:H2'	1:AA:1292:U:O4'	2.09	0.52
1:AA:1378:A:O2'	1:AA:1379:A:P	2.67	0.52
1:AA:1451:C:H2'	1:AA:1457:A:C6	2.43	0.52
1:AA:1539:G:O6	1:AA:1540:G:C6	2.62	0.52
1:AA:1627:G:N3	1:AA:1627:G:H2'	2.24	0.52
1:AA:1657:C:P	5:AE:136:ARG:NH1	2.82	0.52
1:AA:1692:U:C1'	1:AA:1696:G:H22	2.22	0.52
1:AA:1726:G:C5	1:AA:1727:U:O4	2.62	0.52
1:AA:1787:A:O5'	1:AA:1787:A:H8	1.91	0.52
1:AA:1790:C:N3	1:AA:1791:A:N6	2.57	0.52
1:AA:1818:U:OP1	4:AD:158:ALA:HA	2.08	0.52
1:AA:1832:C:H2'	1:AA:1833:U:C5'	2.37	0.52
1:AA:1879:C:H2'	1:AA:1880:C:C6	2.45	0.52
1:AA:1950:G:C5	1:AA:1951:U:H5	2.27	0.52
1:AA:1965:C:C5'	1:AA:1966:A:H3'	2.39	0.52
1:AA:2007:C:H4'	1:AA:2824:C:HO2'	1.74	0.52
1:AA:2134:A:C6	1:AA:2135:A:H2	2.26	0.52
1:AA:2143:C:C4	1:AA:2144:U:O4	2.63	0.52
1:AA:2178:C:C5'	3:AC:46:LYS:HZ2	2.16	0.52
1:AA:2206:C:C2	1:AA:2207:C:C6	2.96	0.52
1:AA:2207:C:C3'	1:AA:2208:U:H5''	2.34	0.52
1:AA:2291:U:O2'	1:AA:2374:C:H1'	2.09	0.52
1:AA:2459:A:C6	1:AA:2493:U:O4	2.61	0.52
1:AA:2538:C:H2'	1:AA:2539:C:C5	2.43	0.52
1:AA:2568:C:O2'	1:AA:2569:G:H5'	2.10	0.52
1:AA:2588:G:O6	1:AA:2589:A:N6	2.42	0.52
1:AA:2744:G:O2'	1:AA:2745:C:H5'	2.09	0.52
1:AA:2753:A:H2'	1:AA:2753:A:N3	2.25	0.52
1:AA:2771:C:C2	1:AA:2772:C:C5	2.97	0.52
1:AA:2773:C:H2'	1:AA:2774:C:C6	2.44	0.52
1:AA:2854:G:C6	1:AA:2855:C:C4	2.97	0.52
2:AB:43:C:H2'	2:AB:44:G:H5''	1.91	0.52
2:AB:65:C:C2	2:AB:108:C:N4	2.77	0.52
2:AB:113:C:H2'	2:AB:114:G:H8	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:7:TYR:CZ	3:AC:11:LEU:HD13	2.44	0.52
4:AD:13:ARG:HD3	4:AD:22:SER:HB2	1.90	0.52
4:AD:34:VAL:C	4:AD:36:PRO:HD2	2.34	0.52
4:AD:45:ASN:O	4:AD:46:GLN:HG3	2.08	0.52
4:AD:89:SER:C	4:AD:159:ALA:HB2	2.34	0.52
4:AD:90:ALA:CA	4:AD:91:ARG:NH1	2.69	0.52
4:AD:154:LYS:O	4:AD:154:LYS:CG	2.56	0.52
4:AD:176:ARG:HA	4:AD:182:LEU:HD23	1.91	0.52
4:AD:230:ASP:O	4:AD:232:PRO:N	2.41	0.52
5:AE:4:ILE:HD11	5:AE:76:ARG:NH1	2.24	0.52
5:AE:27:LEU:CD1	5:AE:30:PRO:HD3	2.31	0.52
5:AE:50:GLY:O	5:AE:76:ARG:NE	2.39	0.52
5:AE:51:PHE:CE1	5:AE:76:ARG:N	2.77	0.52
6:AF:46:ARG:HE	6:AF:47:GLY:N	2.07	0.52
6:AF:136:THR:O	6:AF:137:LYS:C	2.52	0.52
7:AG:22:ARG:HG3	7:AG:23:PHE:N	2.23	0.52
8:AH:56:SER:HB3	8:AH:61:HIS:ND1	2.25	0.52
8:AH:85:LYS:HZ2	8:AH:85:LYS:CB	2.22	0.52
8:AH:87:LEU:N	8:AH:132:ARG:CB	2.71	0.52
10:AJ:20:ALA:CB	10:AJ:21:PRO:CD	2.86	0.52
10:AJ:122:ALA:CA	10:AJ:126:MET:CB	2.87	0.52
11:AK:70:LYS:HD2	11:AK:86:PRO:CG	2.33	0.52
11:AK:87:LEU:HD23	11:AK:88:GLU:CD	2.34	0.52
12:AL:80:ASP:CG	12:AL:82:ASN:OD1	2.53	0.52
12:AL:113:LYS:HZ1	12:AL:117:LEU:HB2	1.74	0.52
14:AN:106:VAL:O	14:AN:107:ALA:CB	2.56	0.52
15:AO:34:ILE:O	15:AO:113:LEU:HA	2.10	0.52
17:AQ:67:SER:CB	17:AQ:75:ILE:HG23	2.39	0.52
17:AQ:85:LYS:HZ2	17:AQ:85:LYS:CB	2.22	0.52
19:AS:14:VAL:HG12	19:AS:15:GLU:N	2.09	0.52
19:AS:45:THR:O	19:AS:46:VAL:CB	2.57	0.52
20:AT:19:LEU:HA	28:Ab:25:LEU:HD22	1.91	0.52
21:AU:32:PRO:HG3	21:AU:77:LYS:HB2	1.89	0.52
22:AV:47:LYS:HB2	22:AV:49:VAL:CG1	2.38	0.52
23:AW:24:LEU:HD12	23:AW:41:LEU:CD1	2.38	0.52
23:AW:82:ARG:CG	23:AW:83:PRO:N	2.70	0.52
24:AX:22:GLY:O	24:AX:38:VAL:CG1	2.56	0.52
25:AY:27:LEU:HD12	25:AY:27:LEU:N	2.24	0.52
27:Aa:21:VAL:O	27:Aa:22:ILE:HB	2.10	0.52
31:Ae:29:LYS:O	31:Ae:30:ARG:O	2.26	0.52
34:BA:38:G:N2	34:BA:397:A:C8	2.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:44:G:H2'	34:BA:45:U:O5'	2.10	0.52
34:BA:133:U:O4	34:BA:229:U:O4	2.27	0.52
34:BA:166:G:C2	34:BA:167:G:C8	2.97	0.52
34:BA:280:C:H1'	50:BU:38:ARG:CZ	2.38	0.52
34:BA:292:G:C2	34:BA:309:G:C2	2.96	0.52
34:BA:390:C:C2	34:BA:391:G:C8	2.97	0.52
34:BA:414:A:C2'	34:BA:415:A:H8	2.13	0.52
34:BA:533:A:OP2	34:BA:533:A:O4'	2.27	0.52
34:BA:600:C:H5'	41:BL:129:VAL:CA	2.38	0.52
34:BA:608:A:C2	34:BA:609:A:O4'	2.62	0.52
34:BA:686:U:HO2'	34:BA:687:A:P	2.32	0.52
34:BA:790:A:C2'	34:BA:791:G:O5'	2.57	0.52
34:BA:875:C:C2'	34:BA:876:G:O5'	2.56	0.52
34:BA:876:G:H1'	41:BL:11:THR:HG21	1.90	0.52
34:BA:915:A:O2'	34:BA:916:G:H5'	2.08	0.52
34:BA:965:A:C8	34:BA:969:A:N3	2.76	0.52
34:BA:974:A:OP2	47:BR:31:ARG:CG	2.49	0.52
34:BA:993:G:C6	34:BA:1046:A:C6	2.97	0.52
34:BA:1158:C:H1'	35:BF:133:LYS:CE	2.40	0.52
34:BA:1237:C:O4'	34:BA:1334:G:N2	2.42	0.52
34:BA:1240:U:C1'	40:BK:42:ILE:HD11	2.39	0.52
34:BA:1302:U:O2'	34:BA:1303:C:P	2.67	0.52
34:BA:1309:G:C8	34:BA:1330:U:C4	2.97	0.52
34:BA:1311:G:C2	34:BA:1327:C:C1'	2.92	0.52
34:BA:1329:A:P	46:BQ:29:ARG:CG	2.91	0.52
34:BA:1495:U:C2'	34:BA:1496:C:H5'	2.37	0.52
35:BF:70:PHE:CA	35:BF:163:PHE:O	2.57	0.52
35:BF:72:GLY:HA2	35:BF:165:VAL:HG22	1.91	0.52
35:BF:170:GLU:C	35:BF:174:VAL:HG23	2.34	0.52
36:BG:11:ARG:O	36:BG:12:LEU:C	2.52	0.52
36:BG:112:SER:OG	36:BG:115:LEU:HD12	2.08	0.52
37:BH:101:LEU:C	37:BH:104:VAL:HG22	2.26	0.52
38:BI:78:HIS:HE2	38:BI:142:LEU:HB3	1.75	0.52
38:BI:115:VAL:CG2	38:BI:118:ILE:HD12	2.36	0.52
39:BJ:61:LEU:HD22	39:BJ:63:TYR:OH	2.09	0.52
40:BK:69:VAL:CB	40:BK:135:VAL:HG22	2.39	0.52
40:BK:146:GLU:O	40:BK:149:ARG:N	2.42	0.52
41:BL:102:ARG:HH21	41:BL:105:ARG:HA	1.74	0.52
43:BN:7:LYS:HZ2	43:BN:71:LEU:HD21	1.74	0.52
43:BN:10:GLY:CA	43:BN:16:LEU:HD21	2.38	0.52
44:BO:63:LEU:HG	44:BO:66:LEU:HD12	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:99:GLN:HA	44:BO:105:VAL:HG13	1.91	0.52
44:BO:115:PRO:O	44:BO:116:HIS:ND1	2.40	0.52
48:BS:13:GLN:O	48:BS:14:GLU:C	2.50	0.52
50:BU:7:THR:HG23	50:BU:8:GLY:N	2.24	0.52
50:BU:65:ILE:O	50:BU:69:LYS:O	2.27	0.52
53:BX:22:ARG:C	53:BX:26:ASN:OD1	2.52	0.52
53:BX:29:LYS:O	53:BX:32:ALA:CB	2.56	0.52
55:CA:15:ASP:OD2	55:CA:106:MET:HG2	2.09	0.52
55:CA:102:PHE:CE2	55:CA:134:GLY:C	2.87	0.52
55:CA:125:VAL:H	55:CA:161:ALA:HB1	1.73	0.52
55:CA:175:ASP:OD1	55:CA:176:HIS:NE2	2.42	0.52
55:CA:234:ASN:CA	55:CA:235:GLN:CB	2.86	0.52
55:CA:603:ALA:CB	55:CA:604:PRO:CD	2.86	0.52
1:AA:48:G:H4'	1:AA:52:A:O4'	2.09	0.52
1:AA:51:G:C5'	1:AA:52:A:OP1	2.54	0.52
1:AA:61:G:C5	1:AA:62:C:C4	2.96	0.52
1:AA:141(A):C:O5'	1:AA:141(A):C:H6	1.92	0.52
1:AA:149:A:C5	1:AA:150:C:C4	2.97	0.52
1:AA:195:A:H4'	1:AA:251:A:C4'	2.40	0.52
1:AA:209:C:C6	1:AA:209:C:O5'	2.62	0.52
1:AA:253:C:O2'	1:AA:254:G:H5'	2.09	0.52
1:AA:265:A:H2'	1:AA:266:G:C4'	2.39	0.52
1:AA:299:A:H5''	1:AA:300:A:OP2	2.09	0.52
1:AA:322:A:O2'	1:AA:340:A:C5	2.62	0.52
1:AA:360:G:H2'	1:AA:361:G:C4'	2.38	0.52
1:AA:420:C:H2'	1:AA:421:U:O4'	2.09	0.52
1:AA:565:C:N3	1:AA:566:U:N3	2.58	0.52
1:AA:595:C:C2	1:AA:596:G:C8	2.98	0.52
1:AA:820:A:H2'	1:AA:820:A:N3	2.24	0.52
1:AA:972:G:C8	1:AA:972:G:OP2	2.62	0.52
1:AA:1013:C:P	1:AA:1142:U:O2	2.67	0.52
1:AA:1074:G:H2'	1:AA:1075:C:C5	2.45	0.52
1:AA:1139:G:N7	11:AK:65:LYS:HE2	2.24	0.52
1:AA:1143:A:O2'	1:AA:1144:G:H5'	2.09	0.52
1:AA:1148:A:N1	1:AA:1149:G:C5	2.77	0.52
1:AA:1212:G:C5	1:AA:1236:G:N1	2.77	0.52
1:AA:1250:G:C4'	18:AR:6:THR:HG21	2.39	0.52
1:AA:1288:U:C2	1:AA:1327:C:C2	2.97	0.52
1:AA:1365:A:C8	1:AA:1366:A:N7	2.77	0.52
1:AA:1472:A:N7	1:AA:1474:C:N4	2.56	0.52
1:AA:1475:G:N3	1:AA:1475:G:C2'	2.71	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:G:C1'	1:AA:1507:A:C2	2.91	0.52
1:AA:1488:G:C2'	1:AA:1489:U:C5'	2.77	0.52
1:AA:1538:G:N1	1:AA:1539:G:C2	2.77	0.52
1:AA:1567:A:N1	4:AD:85:ASP:N	2.57	0.52
1:AA:1746:G:O2'	1:AA:1747:G:O4'	2.22	0.52
1:AA:1817:G:P	4:AD:88:ARG:NH1	2.76	0.52
1:AA:1936:A:H1'	1:AA:1940:U:N3	2.24	0.52
1:AA:1972:A:H2'	1:AA:1973:G:C8	2.43	0.52
1:AA:1996:C:C2	1:AA:1997:G:H4'	2.44	0.52
1:AA:1997:G:C6	1:AA:1998:G:C6	2.97	0.52
1:AA:2051:A:C2	1:AA:2614:A:C6	2.97	0.52
1:AA:2051:A:C3'	5:AE:141:ILE:HD11	2.38	0.52
1:AA:2058:A:N1	1:AA:2059:A:N6	2.52	0.52
1:AA:2197:U:C2'	1:AA:2198:A:H5''	2.39	0.52
1:AA:2460:U:H2'	1:AA:2492:U:O4	2.09	0.52
1:AA:2491:U:C5	1:AA:2492:U:H5'	2.41	0.52
1:AA:2537:U:H2'	1:AA:2538:C:H6	1.71	0.52
1:AA:2610:C:O2'	1:AA:2611:U:OP2	2.24	0.52
1:AA:2615:U:C2	1:AA:2616:C:C5	2.97	0.52
1:AA:2631:G:N9	1:AA:2894:G:C8	2.76	0.52
1:AA:2768:C:C2	1:AA:2769:C:C6	2.97	0.52
2:AB:12:C:C4	24:AX:74:ARG:O	2.62	0.52
3:AC:120:MET:HE1	3:AC:138:PRO:CB	2.34	0.52
3:AC:129:ARG:C	3:AC:130:ILE:HD12	2.35	0.52
4:AD:6:PHE:C	4:AD:28:GLU:OE1	2.52	0.52
4:AD:27:THR:HG21	4:AD:82:ILE:HG22	1.90	0.52
4:AD:57:GLY:O	4:AD:217:ARG:HB2	2.08	0.52
4:AD:267:SER:OG	4:AD:268:ARG:N	2.40	0.52
5:AE:14:ILE:HD12	5:AE:14:ILE:N	2.15	0.52
5:AE:38:THR:HA	5:AE:42:ASP:HA	1.91	0.52
5:AE:102:VAL:O	5:AE:170:LEU:HD23	2.09	0.52
5:AE:169:ASN:HD22	5:AE:170:LEU:N	2.04	0.52
6:AF:22:ALA:HB1	6:AF:115:ALA:HB2	1.92	0.52
6:AF:24:LEU:H	6:AF:25:PRO:CD	2.21	0.52
6:AF:36:VAL:CG1	6:AF:183:VAL:HB	2.36	0.52
6:AF:41:LEU:HD12	6:AF:41:LEU:C	2.34	0.52
7:AG:35:GLU:O	7:AG:160:VAL:HB	2.09	0.52
7:AG:36:LYS:HZ3	7:AG:38:VAL:HG22	1.74	0.52
7:AG:74:LYS:CE	7:AG:75:LYS:HE3	2.40	0.52
7:AG:99:MET:O	7:AG:102:PHE:CB	2.57	0.52
11:AK:53:VAL:HG11	11:AK:123:TYR:HE2	1.73	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:68:GLU:CA	12:AL:104:ARG:NH1	2.65	0.52
12:AL:77:ILE:HG12	17:AQ:75:ILE:HD11	1.90	0.52
12:AL:92:GLU:CD	12:AL:113:LYS:HB3	2.34	0.52
13:AM:49:ARG:HG3	31:Ae:52:LYS:CG	2.38	0.52
14:AN:35:VAL:HA	14:AN:101:ARG:O	2.09	0.52
14:AN:36:ALA:C	14:AN:37:LEU:HG	2.35	0.52
14:AN:44:ALA:N	14:AN:94:VAL:HB	2.24	0.52
14:AN:99:PRO:CG	14:AN:101:ARG:NE	2.69	0.52
14:AN:126:PRO:O	14:AN:127:ILE:HG13	2.09	0.52
15:AO:61:HIS:CE1	15:AO:64:ARG:CZ	2.93	0.52
15:AO:73:VAL:HB	15:AO:77:ARG:CZ	2.39	0.52
16:AP:29:PHE:C	16:AP:30:ARG:HG2	2.34	0.52
16:AP:40:ILE:CG2	16:AP:41:ASP:N	2.72	0.52
18:AR:112:ARG:NH1	19:AS:50:PRO:CG	2.54	0.52
21:AU:5:TYR:O	21:AU:7:VAL:N	2.42	0.52
21:AU:21:PHE:HA	21:AU:26:TYR:CD2	2.44	0.52
21:AU:34:ALA:HB1	21:AU:38:GLU:HB3	1.90	0.52
21:AU:49:VAL:HG12	21:AU:88:LYS:HB2	1.90	0.52
22:AV:35:TYR:CD1	22:AV:64:GLU:O	2.62	0.52
23:AW:43:GLU:HA	23:AW:46:LYS:CD	2.38	0.52
23:AW:99:TYR:CD1	23:AW:126:VAL:CG2	2.92	0.52
23:AW:100:VAL:CG1	23:AW:133:ILE:HB	2.39	0.52
23:AW:127:LYS:HA	23:AW:164:ALA:CB	2.40	0.52
25:AY:14:VAL:HG13	25:AY:18:LYS:NZ	2.24	0.52
25:AY:54:ARG:O	25:AY:57:THR:N	2.42	0.52
26:AZ:26:LEU:CG	26:AZ:35:ARG:HH21	2.21	0.52
27:Aa:24:THR:O	27:Aa:25:TYR:HD1	1.91	0.52
29:Ac:17:LYS:HZ3	29:Ac:50:ARG:CA	2.21	0.52
29:Ac:31:PRO:O	29:Ac:34:LEU:HG	2.09	0.52
31:Ae:34:TRP:HE3	31:Ae:36:LYS:HD3	1.74	0.52
32:Af:9:ARG:NH2	32:Af:16:VAL:CG1	2.73	0.52
34:BA:37:U:O2	34:BA:548:G:N1	2.42	0.52
34:BA:130:A:C6	34:BA:264:U:H1'	2.43	0.52
34:BA:192:U:H5'	53:BX:102:GLY:HA2	1.91	0.52
34:BA:246:A:O2'	34:BA:247:G:O5'	2.27	0.52
34:BA:290:C:O5'	34:BA:290:C:C6	2.55	0.52
34:BA:527:G:N2	34:BA:528:C:C2	2.77	0.52
34:BA:585:G:O2'	34:BA:879:C:H5''	2.08	0.52
34:BA:601:C:C2	34:BA:638:G:C2	2.96	0.52
34:BA:675:A:N1	34:BA:716:A:C2	2.77	0.52
34:BA:801:U:O2	34:BA:801:U:C2'	2.58	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1145:C:C1'	34:BA:1146:A:C8	2.89	0.52
34:BA:1192:C:N4	34:BA:1193:G:N7	2.58	0.52
34:BA:1202:G:N7	43:BN:53:PRO:CB	2.72	0.52
34:BA:1219:U:C1'	52:BW:34:TRP:CZ2	2.70	0.52
34:BA:1256:A:N6	34:BA:1278:U:O2'	2.41	0.52
34:BA:1283:G:H2'	34:BA:1284:C:H5'	1.90	0.52
34:BA:1362(A):C:H5'	34:BA:1363:A:OP1	2.10	0.52
34:BA:1386:G:O2'	34:BA:1387:G:H5'	2.09	0.52
34:BA:1406:U:H2'	34:BA:1407:C:O5'	2.09	0.52
34:BA:1440:C:O2	34:BA:1462:G:C2	2.61	0.52
34:BA:1490:C:OP2	56:BA:1601:NMY:N19	2.41	0.52
35:BF:35:GLU:O	35:BF:36:ARG:NH2	2.43	0.52
35:BF:99:GLY:HA3	35:BF:101:MET:SD	2.48	0.52
35:BF:102:LEU:O	35:BF:180:LEU:HD13	2.09	0.52
36:BG:14:ILE:HG22	36:BG:15:THR:HG22	1.92	0.52
36:BG:48:TYR:HD2	36:BG:48:TYR:C	2.17	0.52
36:BG:110:ASN:HD21	36:BG:140:ARG:CD	2.22	0.52
36:BG:114:PRO:HD3	36:BG:183:ASP:CG	2.34	0.52
36:BG:125:GLU:O	36:BG:127:ARG:HG3	2.09	0.52
36:BG:135:LYS:NZ	38:BI:52:PRO:HG2	2.23	0.52
37:BH:141:ARG:CG	37:BH:142:PRO:HD2	2.39	0.52
38:BI:112:LEU:O	38:BI:113:ALA:C	2.52	0.52
39:BJ:11:ASN:CB	39:BJ:84:ASN:HB3	2.39	0.52
39:BJ:13:ASN:N	39:BJ:13:ASN:ND2	2.56	0.52
39:BJ:79:LEU:HB2	39:BJ:88:VAL:CG1	2.39	0.52
39:BJ:95:GLU:N	39:BJ:96:PRO:CD	2.64	0.52
40:BK:38:LEU:C	40:BK:41:ARG:HB2	2.34	0.52
41:BL:49:GLU:OE1	41:BL:60:ARG:HB3	2.09	0.52
42:BM:7:THR:O	42:BM:83:ARG:NH1	2.42	0.52
43:BN:46:ARG:NH1	47:BR:59:ALA:HB1	2.22	0.52
44:BO:63:LEU:C	44:BO:63:LEU:CD2	2.81	0.52
44:BO:102:GLY:HA2	44:BO:105:VAL:HG23	1.90	0.52
45:BP:16:GLU:OE1	45:BP:17:LYS:O	2.27	0.52
45:BP:36:VAL:HG23	45:BP:81:SER:O	2.08	0.52
45:BP:43:VAL:CG1	45:BP:44:THR:N	2.72	0.52
45:BP:118:SER:O	45:BP:121:GLY:HA2	2.09	0.52
46:BQ:14:ARG:CD	46:BQ:41:PRO:CB	2.81	0.52
46:BQ:78:ILE:HG22	46:BQ:78:ILE:O	2.09	0.52
46:BQ:100:GLY:CA	46:BQ:101:GLN:CG	2.86	0.52
49:BT:52:ASP:OD1	49:BT:55:ARG:CG	2.57	0.52
49:BT:60:LEU:O	49:BT:61:SER:C	2.53	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:88:TYR:HA	50:BU:91:ARG:NH2	2.23	0.52
52:BW:14:HIS:HB3	52:BW:15:LEU:HD23	1.91	0.52
53:BX:72:LEU:HD13	53:BX:77:ALA:CA	2.38	0.52
55:CA:69:ARG:HA	55:CA:70:ILE:C	2.34	0.52
55:CA:71:ASN:C	55:CA:72:ILE:HG13	2.34	0.52
55:CA:83:GLY:C	55:CA:85:VAL:H	2.15	0.52
55:CA:146:ASP:CA	55:CA:149:VAL:CG1	2.86	0.52
55:CA:163:VAL:HG12	55:CA:164:TYR:N	2.23	0.52
55:CA:200:ASP:OD2	55:CA:228:ARG:NE	2.42	0.52
1:AA:70:G:H4'	1:AA:71:A:H5''	1.89	0.52
1:AA:247:G:N7	1:AA:249:C:O2	2.42	0.52
1:AA:263:C:O2	1:AA:264:C:O4'	2.27	0.52
1:AA:306:U:O4	1:AA:310:A:N7	2.43	0.52
1:AA:335:C:N3	1:AA:336:C:C5	2.78	0.52
1:AA:515:A:H5'	18:AR:32:PHE:HZ	1.74	0.52
1:AA:721:C:H2'	1:AA:722:A:H8	1.74	0.52
1:AA:733:G:C6	1:AA:761:A:C4	2.97	0.52
1:AA:858:U:H3'	1:AA:859:G:N3	2.23	0.52
1:AA:945:A:OP1	1:AA:945:A:H4'	2.08	0.52
1:AA:957:A:N6	1:AA:959:A:C5	2.77	0.52
1:AA:1023:U:C2	1:AA:1024:G:H4'	2.44	0.52
1:AA:1093:G:N2	1:AA:1098:A:H62	2.06	0.52
1:AA:1227:A:C8	1:AA:1228:G:H5''	2.45	0.52
1:AA:1277:G:O2'	15:AO:24:GLN:HG2	2.10	0.52
1:AA:1290:C:C2	1:AA:1291:C:C5	2.98	0.52
1:AA:1312:U:O5'	21:AU:62:LYS:HD2	2.09	0.52
1:AA:1540:G:H2'	1:AA:1541:U:C4'	2.39	0.52
1:AA:1607:C:O2	1:AA:1607:C:C2'	2.56	0.52
1:AA:1612:C:H2'	30:Ad:3:ARG:NH2	2.24	0.52
1:AA:1655:A:C3'	1:AA:1656:C:H6	2.22	0.52
1:AA:1772:G:H21	1:AA:1774:C:C5'	2.21	0.52
1:AA:1812:A:C4	1:AA:1813:G:C8	2.97	0.52
1:AA:1827:C:C1'	1:AA:1970:A:H2	2.20	0.52
1:AA:1842:G:C6	1:AA:1901:A:N1	2.77	0.52
1:AA:1912:A:C1'	34:BA:1495:U:C1'	2.88	0.52
1:AA:1944:U:O2	1:AA:1955:U:H6	1.91	0.52
1:AA:1980:G:C2'	1:AA:1981:A:H5''	2.39	0.52
1:AA:1995:U:C5'	1:AA:1996:C:C5'	2.65	0.52
1:AA:2208:U:H1'	1:AA:2217:G:N2	2.25	0.52
1:AA:2213:U:OP2	1:AA:2215:G:C6	2.62	0.52
1:AA:2246:G:H1'	1:AA:2426:A:C2	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2304:G:OP1	7:AG:132:ASN:ND2	2.43	0.52
1:AA:2311:A:C3'	1:AA:2312:U:C5	2.80	0.52
1:AA:2311:A:H2	7:AG:45:GLU:CG	2.22	0.52
1:AA:2312:U:C2	1:AA:2313:C:C5	2.97	0.52
1:AA:2416:C:OP1	13:AM:59:LEU:C	2.52	0.52
1:AA:2431:U:O2'	1:AA:2432:A:H8	1.92	0.52
1:AA:2505:G:O6	1:AA:2576:G:C8	2.63	0.52
1:AA:2573:C:H6	1:AA:2573:C:O5'	1.92	0.52
1:AA:2640:G:O3'	11:AK:75:TYR:CZ	2.63	0.52
1:AA:2728:U:H2'	1:AA:2729:G:C8	2.44	0.52
1:AA:2817:G:C2	1:AA:2830:G:N3	2.77	0.52
1:AA:2870:C:H2'	1:AA:2871:C:O4'	2.09	0.52
2:AB:33:G:N2	2:AB:34:U:C2	2.77	0.52
2:AB:46:A:C2'	2:AB:47:C:C6	2.78	0.52
2:AB:90:C:H2'	2:AB:91:C:C6	2.44	0.52
2:AB:97:G:C5	2:AB:98:G:C8	2.98	0.52
3:AC:54:SER:CA	3:AC:57:ASN:HD22	2.22	0.52
4:AD:133:LEU:HD12	4:AD:187:GLY:CA	2.39	0.52
4:AD:244:ARG:H	4:AD:245:PRO:CD	2.05	0.52
5:AE:5:LEU:HD23	5:AE:7:VAL:N	2.24	0.52
5:AE:103:ASP:O	5:AE:104:VAL:HG22	2.09	0.52
6:AF:80:ALA:HB3	6:AF:83:PHE:CE1	2.44	0.52
6:AF:107:LYS:O	6:AF:108:LYS:C	2.51	0.52
7:AG:8:LYS:O	7:AG:9:ARG:C	2.52	0.52
7:AG:36:LYS:HG3	7:AG:160:VAL:CG2	2.40	0.52
8:AH:121:ILE:HD11	8:AH:123:PHE:CZ	2.43	0.52
8:AH:126:PRO:HG3	8:AH:132:ARG:NH2	2.22	0.52
9:AI:59:ILE:O	9:AI:61:LEU:N	2.40	0.52
10:AJ:36:GLU:C	10:AJ:38:VAL:H	2.16	0.52
12:AL:3:GLN:NE2	12:AL:33:ALA:CB	2.41	0.52
12:AL:10:VAL:C	12:AL:17:ARG:CG	2.80	0.52
12:AL:48:PRO:O	12:AL:49:ARG:C	2.52	0.52
13:AM:114:ILE:CD1	13:AM:129:ALA:O	2.44	0.52
13:AM:116:GLY:CA	13:AM:121:LYS:HB3	2.40	0.52
17:AQ:64:ARG:NH1	17:AQ:78:LEU:H	2.07	0.52
18:AR:46:ALA:O	18:AR:50:ARG:CD	2.53	0.52
18:AR:93:LYS:N	18:AR:93:LYS:HZ3	2.07	0.52
18:AR:106:PHE:HA	18:AR:109:LEU:HD12	1.92	0.52
19:AS:6:LYS:N	19:AS:12:TYR:HB3	2.24	0.52
19:AS:7:THR:O	19:AS:11:GLN:NE2	2.41	0.52
19:AS:20:LEU:CB	19:AS:95:LEU:HB3	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:28:GLU:CG	19:AS:94:LEU:HB2	2.39	0.52
20:AT:6:ILE:HG12	20:AT:104:THR:CA	2.29	0.52
20:AT:12:ILE:HD13	20:AT:12:ILE:N	2.24	0.52
23:AW:30:ASN:HB2	23:AW:90:VAL:CG2	2.28	0.52
23:AW:98:MET:HE2	23:AW:133:ILE:CG1	2.39	0.52
23:AW:122:ARG:HG2	23:AW:171:ILE:CA	2.34	0.52
24:AX:26:TYR:O	24:AX:29:GLN:OE1	2.27	0.52
26:AZ:10:LYS:HG2	26:AZ:12:PRO:CD	2.34	0.52
29:Ac:50:ARG:CZ	29:Ac:52:VAL:CG2	2.83	0.52
34:BA:86:U:OP2	34:BA:87:A:N1	2.42	0.52
34:BA:160:A:C2	34:BA:343:U:H1'	2.45	0.52
34:BA:226:G:C2	34:BA:227:G:C4	2.97	0.52
34:BA:250:A:N3	34:BA:252:U:N3	2.57	0.52
34:BA:280:C:N3	50:BU:39:SER:CB	2.73	0.52
34:BA:281:G:O2'	34:BA:282:A:H8	1.92	0.52
34:BA:295:C:H2'	34:BA:296:U:O5'	2.09	0.52
34:BA:321:A:C2	34:BA:322:C:C4	2.98	0.52
34:BA:382:A:C2'	34:BA:383:A:O5'	2.57	0.52
34:BA:562:C:H2'	45:BP:15:ARG:HB3	1.91	0.52
34:BA:595:G:H8	34:BA:641:U:O4	1.93	0.52
34:BA:735:C:H5'	51:BV:71:LYS:CD	2.38	0.52
34:BA:932:C:OP1	40:BK:3:ARG:O	2.26	0.52
34:BA:955:U:N3	34:BA:956:U:C5	2.77	0.52
34:BA:1207:G:O2'	34:BA:1208:C:H5'	2.10	0.52
34:BA:1239:A:H5''	34:BA:1240:U:OP1	2.09	0.52
34:BA:1273:G:H2'	34:BA:1274:G:O4'	2.09	0.52
34:BA:1286:A:OP1	54:BY:25:LYS:HG3	2.08	0.52
34:BA:1292:U:OP2	34:BA:1292:U:H6	1.92	0.52
34:BA:1310:G:O2'	34:BA:1311:G:H5'	2.10	0.52
34:BA:1346:A:N6	34:BA:1375:A:OP2	2.40	0.52
34:BA:1361:G:N7	34:BA:1362:C:C5	2.77	0.52
35:BF:84:GLU:CD	35:BF:234:PRO:HD2	2.34	0.52
35:BF:136:VAL:O	35:BF:139:LYS:CG	2.56	0.52
35:BF:175:ARG:HA	35:BF:178:ARG:CB	2.38	0.52
35:BF:184:VAL:HB	35:BF:198:ASP:CG	2.33	0.52
36:BG:177:THR:O	36:BG:179:ARG:N	2.42	0.52
37:BH:9:CYS:O	37:BH:12:CYS:HB2	2.10	0.52
37:BH:170:VAL:HG23	37:BH:176:LEU:CD2	2.37	0.52
38:BI:53:LEU:O	38:BI:54:ALA:C	2.53	0.52
38:BI:109:ILE:HG23	38:BI:110:LEU:H	1.73	0.52
39:BJ:25:ILE:O	39:BJ:26:ILE:C	2.52	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:72:VAL:HG23	39:BJ:73:ASN:N	2.11	0.52
40:BK:153:HIS:CE1	44:BO:58:PRO:CG	2.92	0.52
41:BL:26:VAL:HG13	41:BL:27:PRO:HD2	1.91	0.52
41:BL:70:GLN:HE21	41:BL:70:GLN:HA	1.72	0.52
42:BM:16:ARG:O	42:BM:63:ILE:HG23	2.10	0.52
43:BN:6:ILE:HG21	43:BN:98:ILE:HG13	1.90	0.52
43:BN:72:VAL:HG12	43:BN:73:ASP:N	2.25	0.52
46:BQ:15:VAL:HG21	46:BQ:39:ILE:HD11	1.16	0.52
46:BQ:65:LYS:HB2	46:BQ:66:LEU:O	2.09	0.52
49:BT:63:GLY:O	49:BT:64:ALA:C	2.52	0.52
50:BU:31:LEU:O	50:BU:32:TYR:CD2	2.52	0.52
53:BX:29:LYS:O	53:BX:32:ALA:N	2.42	0.52
53:BX:37:SER:O	53:BX:41:ILE:HG13	2.09	0.52
53:BX:67:ALA:O	53:BX:68:LYS:C	2.52	0.52
54:BY:14:TRP:O	54:BY:15:ARG:C	2.52	0.52
55:CA:13:HIS:CA	55:CA:108:GLN:HB2	2.40	0.52
55:CA:125:VAL:HB	55:CA:162:ILE:CA	2.33	0.52
1:AA:30:G:C5	1:AA:31:C:C5	2.98	0.52
1:AA:126:A:C2	30:Ad:18:PHE:HB3	2.44	0.52
1:AA:164:U:H2'	1:AA:172:C:O4'	2.08	0.52
1:AA:244:A:C6	1:AA:245:G:H1'	2.44	0.52
1:AA:447:A:N1	1:AA:454:A:N7	2.57	0.52
1:AA:531:C:O2	18:AR:28:ARG:CZ	2.57	0.52
1:AA:611:C:O2	1:AA:616:A:C2	2.63	0.52
1:AA:637:A:C2	1:AA:651:G:C4'	2.92	0.52
1:AA:648:G:C2'	1:AA:649:G:H8	2.21	0.52
1:AA:663:G:C4'	13:AM:18:ARG:NE	2.69	0.52
1:AA:727:A:O2'	1:AA:728:G:OP1	2.24	0.52
1:AA:850:C:H2'	1:AA:851:U:H6	1.72	0.52
1:AA:1052:C:H2'	1:AA:1053:C:C6	2.44	0.52
1:AA:1137:G:C5	1:AA:1138:G:H1'	2.45	0.52
1:AA:1139:G:C5'	11:AK:24:GLY:HA3	2.40	0.52
1:AA:1162:G:H4'	19:AS:23:GLU:O	2.09	0.52
1:AA:1300:U:O2'	1:AA:1301:A:OP2	2.28	0.52
1:AA:1343:G:H2'	1:AA:1384:A:H2	1.74	0.52
1:AA:1531:C:C2	1:AA:1532:C:C5	2.97	0.52
1:AA:1655:A:C5'	5:AE:113:PHE:C	2.82	0.52
1:AA:2136:C:C2	1:AA:2137:C:C6	2.97	0.52
1:AA:2182:G:C2	1:AA:2183:C:C2	2.97	0.52
1:AA:2239:G:H1'	4:AD:249:PRO:HB3	1.92	0.52
1:AA:2244:U:H2'	1:AA:2245:U:O5'	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2297:C:H2'	1:AA:2298:A:H8	1.73	0.52
1:AA:2332:U:P	24:AX:43:THR:HB	2.50	0.52
1:AA:2387:U:C2	24:AX:41:ARG:NH2	2.77	0.52
1:AA:2392:A:HO2'	1:AA:2393:A:P	2.31	0.52
1:AA:2413:G:H2'	1:AA:2414:G:O4'	2.09	0.52
1:AA:2459:A:N3	1:AA:2460:U:C2'	2.73	0.52
1:AA:2617:C:C2	1:AA:2618:G:C8	2.98	0.52
1:AA:2793:G:C2	1:AA:2803:C:N3	2.77	0.52
1:AA:2803:C:H2'	1:AA:2803:C:O2	2.09	0.52
1:AA:2857:G:H2'	1:AA:2858:C:C5'	2.39	0.52
2:AB:7:G:HO2'	2:AB:8:U:P	2.32	0.52
2:AB:80:U:O2	2:AB:81:G:N7	2.41	0.52
2:AB:81:G:C6	2:AB:82:G:C5	2.97	0.52
3:AC:68:LEU:CD2	3:AC:69:GLY:N	2.69	0.52
3:AC:100:ILE:HG12	3:AC:127:LEU:HD12	1.91	0.52
4:AD:5:LYS:CE	4:AD:31:LYS:NZ	2.72	0.52
4:AD:52:ARG:N	4:AD:52:ARG:CD	2.72	0.52
4:AD:130:ALA:O	4:AD:131:LEU:CD1	2.55	0.52
4:AD:146:GLU:CB	4:AD:154:LYS:H	2.03	0.52
4:AD:208:LYS:O	4:AD:211:ARG:HB2	2.09	0.52
5:AE:27:LEU:HG	5:AE:27:LEU:O	2.08	0.52
5:AE:77:ILE:CG1	5:AE:78:LEU:N	2.71	0.52
5:AE:98:PRO:HG3	5:AE:175:VAL:HG22	1.91	0.52
5:AE:158:GLY:O	5:AE:160:TYR:CD1	2.51	0.52
5:AE:176:ILE:CG2	5:AE:181:LEU:O	2.56	0.52
6:AF:133:ASN:HB3	6:AF:165:ARG:NH1	2.24	0.52
6:AF:157:VAL:O	6:AF:157:VAL:HG23	2.08	0.52
7:AG:75:LYS:CB	7:AG:84:LYS:HB2	2.39	0.52
7:AG:107:LEU:HD22	7:AG:173:LEU:HD21	1.92	0.52
7:AG:174:GLU:HG2	7:AG:175:LEU:N	2.22	0.52
8:AH:35:VAL:HB	8:AH:72:ILE:HG12	1.90	0.52
8:AH:149:ARG:O	8:AH:153:LYS:CB	2.57	0.52
9:AI:52:PHE:N	9:AI:86:PRO:CB	2.73	0.52
11:AK:16:ILE:CD1	11:AK:53:VAL:O	2.57	0.52
11:AK:42:TRP:C	11:AK:43:THR:OG1	2.51	0.52
11:AK:58:ASP:HB3	11:AK:124:ALA:HB1	1.90	0.52
11:AK:85:ILE:HD12	11:AK:85:ILE:H	1.73	0.52
12:AL:10:VAL:CG1	12:AL:11:ALA:N	2.54	0.52
13:AM:90:ARG:N	13:AM:125:VAL:HG22	2.24	0.52
13:AM:114:ILE:HG23	13:AM:122:PRO:O	2.09	0.52
14:AN:42:ILE:C	14:AN:94:VAL:HG21	2.34	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:130:LYS:NZ	14:AN:132:VAL:CG1	2.70	0.52
15:AO:67:LEU:HD23	15:AO:76:VAL:CG2	2.39	0.52
16:AP:13:ARG:NH1	16:AP:90:GLY:O	2.43	0.52
17:AQ:65:LYS:CE	17:AQ:75:ILE:HD13	2.39	0.52
17:AQ:85:LYS:NZ	17:AQ:85:LYS:N	2.57	0.52
17:AQ:115:ARG:HD3	34:BA:1463:C:OP2	2.09	0.52
18:AR:53:ARG:O	18:AR:57:PHE:HD1	1.92	0.52
18:AR:59:ARG:HA	18:AR:62:ILE:CD1	2.33	0.52
18:AR:85:LYS:HB3	18:AR:116:ALA:O	2.10	0.52
20:AT:25:ARG:O	20:AT:71:VAL:HG13	2.10	0.52
20:AT:33:ARG:CA	20:AT:33:ARG:NE	2.68	0.52
20:AT:40:ASN:O	20:AT:41:LYS:CB	2.56	0.52
21:AU:12:VAL:HG22	21:AU:29:TRP:NE1	2.25	0.52
23:AW:157:LEU:HD23	23:AW:158:PRO:N	2.24	0.52
25:AY:59:LEU:HD11	25:AY:63:ARG:NE	2.24	0.52
34:BA:29:G:H4'	34:BA:295:C:O3'	2.10	0.52
34:BA:51:A:HO2'	34:BA:52:G:P	2.29	0.52
34:BA:210:U:H4'	34:BA:216:G:O5'	2.10	0.52
34:BA:363:A:N1	34:BA:364:A:N3	2.57	0.52
34:BA:404:U:OP2	37:BH:118:ARG:NH1	2.42	0.52
34:BA:447:G:O5'	34:BA:447:G:C8	2.59	0.52
34:BA:583:A:H2'	34:BA:584:G:C8	2.44	0.52
34:BA:922:G:H2'	34:BA:923:A:O4'	2.09	0.52
34:BA:939:G:H2'	34:BA:940:C:C5	2.44	0.52
34:BA:978:A:C8	34:BA:980:C:N4	2.78	0.52
34:BA:1150:U:H2'	34:BA:1151:A:C8	2.44	0.52
34:BA:1164:G:C5	34:BA:1165:C:N4	2.77	0.52
34:BA:1188:A:C8	34:BA:1188:A:OP2	2.62	0.52
34:BA:1189:C:OP1	36:BG:5:ILE:HG21	2.09	0.52
34:BA:1373:G:H5'	40:BK:36:LYS:HB2	1.92	0.52
34:BA:1376:U:H3	34:BA:1377:A:N6	2.08	0.52
34:BA:1393:U:H2'	34:BA:1394:A:OP2	2.10	0.52
34:BA:1511:G:O2'	34:BA:1512:U:H5'	2.10	0.52
35:BF:82:ARG:CB	35:BF:94:ASN:HD21	2.22	0.52
35:BF:193:ASP:CG	35:BF:196:LEU:HD11	2.34	0.52
35:BF:238:LEU:O	35:BF:238:LEU:HD23	2.10	0.52
36:BG:30:ARG:H	36:BG:30:ARG:CD	2.23	0.52
36:BG:37:GLN:HA	36:BG:37:GLN:OE1	2.09	0.52
37:BH:30:LYS:H	37:BH:34:GLU:HB3	1.71	0.52
37:BH:104:VAL:O	37:BH:105:VAL:C	2.52	0.52
37:BH:171:GLY:HA3	37:BH:173:TRP:CZ3	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:187:ARG:HD2	37:BH:188:LEU:H	1.73	0.52
38:BI:59:GLY:O	38:BI:62:ALA:CB	2.56	0.52
38:BI:78:HIS:CG	41:BL:104:ARG:HD3	2.43	0.52
38:BI:102:ALA:CB	38:BI:120:THR:HG22	2.33	0.52
38:BI:147:ASP:O	38:BI:150:ARG:HB3	2.09	0.52
39:BJ:45:LEU:HD23	39:BJ:59:TYR:CA	2.39	0.52
40:BK:87:VAL:HB	40:BK:156:TRP:CZ3	2.45	0.52
40:BK:107:ALA:CB	40:BK:123:GLU:OE1	2.56	0.52
41:BL:86:ILE:HG22	41:BL:87:SER:N	2.24	0.52
41:BL:124:ALA:O	41:BL:125:ARG:C	2.51	0.52
42:BM:19:LEU:HD22	42:BM:59:PHE:CD2	2.40	0.52
42:BM:82:ALA:HB1	42:BM:101:PHE:CE1	2.45	0.52
44:BO:84:VAL:CG2	51:BV:88:LYS:HD3	2.32	0.52
45:BP:12:ARG:CZ	45:BP:12:ARG:CB	2.87	0.52
46:BQ:27:LYS:HB2	54:BY:7:ARG:HH11	1.43	0.52
47:BR:13:THR:C	47:BR:15:LYS:N	2.66	0.52
47:BR:27:CYS:N	47:BR:43:CYS:HB3	2.23	0.52
53:BX:40:ALA:CB	53:BX:55:ILE:HG21	2.38	0.52
53:BX:83:ARG:HA	53:BX:86:ARG:HD3	1.90	0.52
55:CA:13:HIS:ND1	55:CA:109:THR:CG2	2.70	0.52
55:CA:54:ILE:HD11	55:CA:211:GLN:CD	2.35	0.52
55:CA:62:ALA:HB3	55:CA:63:ALA:CA	2.39	0.52
55:CA:448:LEU:O	55:CA:451:PHE:HB2	2.09	0.52
1:AA:179:G:H5'	30:Ad:32:LYS:HZ1	1.67	0.52
1:AA:278:A:H2'	1:AA:279:C:C2	2.44	0.52
1:AA:386:G:O5'	1:AA:388:G:N2	2.43	0.52
1:AA:445:C:OP1	18:AR:2:PRO:HB2	2.09	0.52
1:AA:532:A:C8	1:AA:533:G:H1'	2.41	0.52
1:AA:563:G:N2	1:AA:564:C:N3	2.57	0.52
1:AA:584:C:C2'	1:AA:585:G:H5'	2.40	0.52
1:AA:585:G:O2'	1:AA:586:A:C8	2.57	0.52
1:AA:592:G:O2'	31:Ae:3:LYS:N	2.41	0.52
1:AA:604:G:C2'	1:AA:605:C:O5'	2.57	0.52
1:AA:612:G:N2	1:AA:617:G:H1	2.08	0.52
1:AA:687:C:H4'	30:Ad:4:THR:CG2	2.40	0.52
1:AA:834:C:O5'	1:AA:834:C:H6	1.91	0.52
1:AA:857:C:O2'	24:AX:23:VAL:HB	2.09	0.52
1:AA:878:A:N9	1:AA:898:C:N4	2.58	0.52
1:AA:1006:C:O2'	11:AK:106:MET:CB	2.54	0.52
1:AA:1080:C:C4'	10:AJ:125:ARG:O	2.57	0.52
1:AA:1307:A:H4'	1:AA:1379:A:H62	1.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1360:A:C8	1:AA:1361:G:C8	2.97	0.52
1:AA:1397:U:O2'	1:AA:1398:C:OP1	2.21	0.52
1:AA:1489:U:O2'	1:AA:1490:A:OP2	2.24	0.52
1:AA:1511:A:H3'	1:AA:1511:A:C8	2.45	0.52
1:AA:1579:A:H2'	1:AA:1580:A:H4'	1.90	0.52
1:AA:1728:G:H1	1:AA:1733:G:H22	1.56	0.52
1:AA:1735:C:H42	1:AA:1741:C:N4	2.05	0.52
1:AA:1746:G:OP2	1:AA:1746:G:C8	2.63	0.52
1:AA:1773:A:N7	1:AA:1774:C:N3	2.58	0.52
1:AA:1818:U:C4	4:AD:156:ALA:CB	2.92	0.52
1:AA:1861:G:N2	1:AA:1862:G:H1'	2.25	0.52
1:AA:1912:A:H62	34:BA:1408:A:H1'	1.75	0.52
1:AA:2134:A:O4'	1:AA:2134:A:OP2	2.28	0.52
1:AA:2136:C:H2'	1:AA:2137:C:O4'	2.09	0.52
1:AA:2216:G:O5'	1:AA:2216:G:C8	2.62	0.52
1:AA:2309:A:N3	1:AA:2309:A:H2'	2.24	0.52
1:AA:2412:A:H3'	1:AA:2413:G:H8	1.74	0.52
1:AA:2436:G:O2'	1:AA:2437:U:OP1	2.27	0.52
1:AA:2468:G:O2'	1:AA:2469:A:H8	1.93	0.52
1:AA:2497:A:H1'	1:AA:2498:C:C4	2.44	0.52
1:AA:2506:U:C2'	1:AA:2507:C:H5'	2.39	0.52
1:AA:2533:A:H2'	1:AA:2534:A:O4'	2.10	0.52
1:AA:2596:U:O3'	4:AD:242:ARG:NE	2.43	0.52
1:AA:2625:G:C2'	1:AA:2626:C:O5'	2.57	0.52
1:AA:2666:C:C3'	1:AA:2667:C:C5'	2.86	0.52
1:AA:2794:C:H2'	1:AA:2794:C:O2	2.08	0.52
1:AA:2799:A:H4'	1:AA:2802:G:C2	2.44	0.52
1:AA:2811:G:N2	1:AA:2891:G:H1'	2.24	0.52
2:AB:63:G:H2'	2:AB:64:C:H6	1.73	0.52
3:AC:163:PHE:HB3	3:AC:171:ILE:HD12	1.92	0.52
4:AD:117:VAL:HG22	4:AD:129:ASN:OD1	2.08	0.52
4:AD:176:ARG:HA	4:AD:181:GLU:O	2.09	0.52
4:AD:250:TRP:HA	4:AD:250:TRP:HE3	1.71	0.52
5:AE:2:LYS:HZ2	5:AE:83:ASP:HB2	1.72	0.52
5:AE:13:ARG:HD2	5:AE:13:ARG:O	2.09	0.52
5:AE:136:ARG:C	5:AE:136:ARG:HD3	2.34	0.52
6:AF:37:VAL:O	6:AF:41:LEU:HD23	2.08	0.52
6:AF:77:ASP:OD1	6:AF:77:ASP:C	2.52	0.52
7:AG:44:GLY:CA	7:AG:72:ARG:HG2	2.39	0.52
7:AG:62:LEU:HD23	7:AG:143:GLU:HB3	1.86	0.52
7:AG:85:GLY:O	7:AG:86:MET:HB2	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:6:ARG:C	8:AH:7:LEU:HD23	2.34	0.52
8:AH:33:LEU:HD11	8:AH:74:ASN:HD21	1.73	0.52
8:AH:38:SER:CB	8:AH:41:MET:HE2	2.39	0.52
8:AH:102:ALA:HB1	8:AH:115:VAL:N	2.25	0.52
10:AJ:4:VAL:HG22	10:AJ:4:VAL:O	2.09	0.52
10:AJ:21:PRO:N	10:AJ:22:PRO:CD	2.73	0.52
10:AJ:52:ILE:HD11	10:AJ:76:TYR:HD2	1.74	0.52
11:AK:34:LEU:CA	11:AK:49:GLY:HA2	2.39	0.52
12:AL:22:ILE:HD12	12:AL:40:VAL:HG21	1.91	0.52
12:AL:106:LEU:HD21	17:AQ:38:ASN:ND2	2.25	0.52
13:AM:18:ARG:C	13:AM:20:GLY:H	2.17	0.52
13:AM:24:GLY:O	13:AM:25:SER:C	2.52	0.52
14:AN:7:MET:O	14:AN:69:PHE:CE2	2.62	0.52
14:AN:39:PRO:HA	14:AN:127:ILE:HG21	1.91	0.52
14:AN:44:ALA:CB	14:AN:93:TYR:O	2.58	0.52
15:AO:22:ARG:HG2	15:AO:70:LEU:CD2	2.40	0.52
15:AO:93:GLY:C	15:AO:95:THR:N	2.68	0.52
16:AP:31:SER:CB	16:AP:34:HIS:HB3	2.40	0.52
16:AP:73:LEU:H	16:AP:73:LEU:CD1	2.17	0.52
17:AQ:58:ASN:N	17:AQ:61:PHE:CE2	2.77	0.52
18:AR:56:ASP:O	18:AR:60:LEU:HG	2.08	0.52
19:AS:66:ARG:HE	19:AS:95:LEU:HD12	1.73	0.52
23:AW:26:GLY:O	23:AW:37:VAL:O	2.28	0.52
23:AW:171:ILE:HD12	23:AW:171:ILE:C	2.35	0.52
24:AX:27:GLU:CA	24:AX:69:PHE:CE2	2.92	0.52
24:AX:54:GLY:C	24:AX:56:ASP:N	2.66	0.52
28:Ab:6:VAL:O	28:Ab:7:PRO:O	2.28	0.52
31:Ae:60:LEU:O	31:Ae:63:PRO:HD3	2.09	0.52
34:BA:57:G:N2	34:BA:388:G:N7	2.58	0.52
34:BA:85:U:H2'	34:BA:86:U:C5'	2.40	0.52
34:BA:178:C:H2'	34:BA:179:A:H8	1.73	0.52
34:BA:186(B):C:C4'	53:BX:89:ARG:HH22	2.23	0.52
34:BA:230:G:C2	34:BA:231:G:C4	2.98	0.52
34:BA:254:G:N1	34:BA:273:A:C6	2.78	0.52
34:BA:320:C:O2'	34:BA:321:A:H5'	2.10	0.52
34:BA:321:A:C6	34:BA:322:C:N4	2.78	0.52
34:BA:467:G:N2	34:BA:468:A:C4	2.78	0.52
34:BA:474:G:O2'	34:BA:475:G:H5'	2.09	0.52
34:BA:559:A:O2'	34:BA:560:U:OP2	2.23	0.52
34:BA:587:G:H1'	34:BA:755:G:C2	2.41	0.52
34:BA:620:C:C6	34:BA:621:A:C8	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:640:A:H2'	34:BA:641:U:C4'	2.40	0.52
34:BA:657:G:O2'	34:BA:658:G:H5'	2.09	0.52
34:BA:671:G:C2	34:BA:672:U:C2	2.98	0.52
34:BA:687:A:C4	34:BA:704:A:N6	2.77	0.52
34:BA:739:C:O2	34:BA:739:C:H2'	2.10	0.52
34:BA:779:C:H4'	44:BO:120:ARG:O	2.10	0.52
34:BA:899:C:H2'	34:BA:900:A:O4'	2.09	0.52
34:BA:1003:G:N2	34:BA:1038:C:H1'	2.24	0.52
34:BA:1103:C:HO2'	35:BF:111:ARG:HD2	1.74	0.52
34:BA:1192:C:H6	34:BA:1192:C:C3'	1.98	0.52
34:BA:1197:G:H3'	34:BA:1197:G:P	2.49	0.52
34:BA:1422:G:C2	34:BA:1423:G:C5	2.97	0.52
35:BF:42:ILE:HG23	35:BF:43:ASP:N	2.24	0.52
35:BF:74:LYS:O	35:BF:75:LYS:C	2.50	0.52
35:BF:82:ARG:HA	35:BF:92:TYR:OH	2.08	0.52
35:BF:95:GLN:CD	35:BF:148:TYR:HB3	2.35	0.52
35:BF:173:ALA:HA	35:BF:176:GLU:CG	2.39	0.52
36:BG:36:ASP:OD2	36:BG:57:ILE:HD12	2.08	0.52
37:BH:200:GLU:CG	37:BH:201:GLN:H	2.22	0.52
38:BI:9:LYS:HD2	38:BI:111:GLU:OE1	2.09	0.52
38:BI:80:ILE:HD12	38:BI:80:ILE:N	2.24	0.52
38:BI:105:VAL:HG21	38:BI:132:ALA:HB2	1.89	0.52
39:BJ:75:LEU:CD2	39:BJ:79:LEU:HD21	2.30	0.52
41:BL:14:ARG:N	41:BL:14:ARG:HH11	2.08	0.52
41:BL:68:ARG:N	41:BL:76:PRO:HG3	2.25	0.52
41:BL:97:VAL:HG13	41:BL:98:LYS:N	2.25	0.52
42:BM:7:THR:CG2	42:BM:9:ARG:HH11	2.22	0.52
42:BM:79:LEU:HD22	42:BM:101:PHE:HD2	1.74	0.52
42:BM:93:ARG:HH22	42:BM:97:LYS:HE2	1.73	0.52
42:BM:97:LYS:CE	42:BM:102:LEU:HD22	2.40	0.52
43:BN:7:LYS:NZ	43:BN:71:LEU:HD11	2.24	0.52
43:BN:19:SER:OG	43:BN:91:PRO:HG3	2.10	0.52
43:BN:82:ILE:O	43:BN:86:MET:CB	2.56	0.52
45:BP:5:PRO:O	45:BP:6:THR:CB	2.57	0.52
45:BP:46:LYS:HE3	45:BP:47:LYS:HZ1	1.73	0.52
49:BT:58:TYR:O	49:BT:61:SER:CB	2.58	0.52
51:BV:36:ASN:O	51:BV:37:VAL:C	2.52	0.52
52:BW:62:ILE:CG1	52:BW:67:VAL:HG22	2.38	0.52
55:CA:19:THR:N	55:CA:20:THR:CB	2.73	0.52
55:CA:22:VAL:CG2	55:CA:23:ASP:N	2.73	0.52
55:CA:119:TYR:HB3	55:CA:121:LEU:HG	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:320:GLY:HA3	55:CA:321:LYS:CG	2.40	0.52
55:CA:480:VAL:HG22	55:CA:480:VAL:O	2.08	0.52
1:AA:45:G:H2'	1:AA:215:G:H2'	1.92	0.52
1:AA:126:A:OP1	30:Ad:17:GLY:CA	2.57	0.52
1:AA:175:G:C2	1:AA:176:G:C4	2.97	0.52
1:AA:223:A:C4	1:AA:422:A:C8	2.97	0.52
1:AA:223:A:C6	1:AA:408:G:O4'	2.62	0.52
1:AA:292:C:H2'	1:AA:293:U:N3	2.25	0.52
1:AA:292:C:C2'	1:AA:293:U:C2	2.91	0.52
1:AA:324:A:C2	1:AA:325:G:C1'	2.93	0.52
1:AA:330:A:O2'	1:AA:1210:A:C6	2.63	0.52
1:AA:507:A:O4'	1:AA:509:C:C2	2.63	0.52
1:AA:541:C:OP2	1:AA:541:C:H6	1.92	0.52
1:AA:563:G:H2'	1:AA:563:G:N3	2.23	0.52
1:AA:565:C:H5''	19:AS:82:ARG:HE	1.75	0.52
1:AA:727:A:N3	1:AA:727:A:C2'	2.68	0.52
1:AA:742:G:C4'	1:AA:1675:C:O2'	2.56	0.52
1:AA:763:G:N3	1:AA:765:G:C1'	2.73	0.52
1:AA:763:G:C6	1:AA:765:G:C5	2.98	0.52
1:AA:872:A:O2'	14:AN:66:ILE:HD13	2.09	0.52
1:AA:942:G:H1'	1:AA:1189:A:C2	2.44	0.52
1:AA:1034:G:C5	1:AA:1122:G:O6	2.61	0.52
1:AA:1038:C:C5'	1:AA:1039:G:OP1	2.56	0.52
1:AA:1061:U:C2'	10:AJ:52:ILE:HD13	2.29	0.52
1:AA:1256:G:C6	1:AA:1257:C:C4	2.98	0.52
1:AA:1335:U:OP2	21:AU:65:ARG:CZ	2.58	0.52
1:AA:1462:C:H4'	1:AA:2703:C:OP1	2.10	0.52
1:AA:1517:G:N2	1:AA:1518:C:H1'	2.23	0.52
1:AA:1528:A:N7	1:AA:1529:A:C6	2.78	0.52
1:AA:1844:C:C2	1:AA:1845:G:C8	2.98	0.52
1:AA:1920:C:C6	1:AA:1921:G:N7	2.78	0.52
1:AA:1924:C:C4	1:AA:1925:C:C5	2.98	0.52
1:AA:2030:A:O2'	1:AA:2031:A:O5'	2.21	0.52
1:AA:2051:A:OP2	1:AA:2051:A:H8	1.92	0.52
1:AA:2230:G:O2'	27:Aa:40:HIS:O	2.13	0.52
1:AA:2286:A:N1	29:Ac:28:ARG:C	2.68	0.52
1:AA:2309:A:H5''	1:AA:2310:A:C8	2.45	0.52
1:AA:2436:G:O2'	1:AA:2437:U:C5'	2.58	0.52
1:AA:2507:C:H1'	1:AA:2583:G:H21	1.75	0.52
1:AA:2519:U:O2	1:AA:2519:U:H2'	2.08	0.52
1:AA:2666:C:H6	1:AA:2666:C:H3'	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2732:G:H8	1:AA:2732:G:OP2	1.91	0.52
1:AA:2767:C:N3	1:AA:2768:C:N4	2.57	0.52
1:AA:2777:G:H4'	1:AA:2778:A:OP2	2.10	0.52
2:AB:82:G:C2	2:AB:83:G:C8	2.98	0.52
2:AB:100:G:C5	2:AB:101:A:N7	2.78	0.52
2:AB:117:G:N3	2:AB:118:G:C8	2.77	0.52
3:AC:23:ASP:OD1	3:AC:186:ALA:HB2	2.09	0.52
3:AC:59:ARG:HH12	3:AC:164:ARG:HH11	1.57	0.52
3:AC:93:TYR:CE1	3:AC:109:ASP:HB2	2.45	0.52
4:AD:5:LYS:HB2	4:AD:82:ILE:CD1	2.39	0.52
4:AD:5:LYS:O	4:AD:29:PRO:HD3	2.09	0.52
4:AD:90:ALA:HA	4:AD:91:ARG:HH12	1.74	0.52
4:AD:155:LEU:O	4:AD:155:LEU:CD2	2.55	0.52
4:AD:239:ARG:N	4:AD:239:ARG:CD	2.70	0.52
5:AE:12:THR:CA	5:AE:22:PRO:HD2	2.39	0.52
5:AE:36:ARG:HB3	5:AE:41:LYS:CB	2.38	0.52
6:AF:122:LYS:CD	6:AF:192:LEU:HD12	2.40	0.52
6:AF:201:VAL:HG12	6:AF:205:ARG:HH21	1.73	0.52
7:AG:85:GLY:O	7:AG:86:MET:CB	2.57	0.52
7:AG:138:GLN:N	7:AG:155:MET:SD	2.83	0.52
8:AH:153:LYS:HA	8:AH:162:ILE:H	1.74	0.52
10:AJ:123:ALA:C	10:AJ:127:ILE:HG13	2.35	0.52
11:AK:18:ALA:H	11:AK:21:LYS:HD2	1.74	0.52
11:AK:66:LYS:O	11:AK:67:LEU:O	2.27	0.52
11:AK:134:ARG:O	11:AK:135:PRO:O	2.27	0.52
13:AM:113:LYS:HG2	13:AM:114:ILE:N	2.25	0.52
14:AN:125:LEU:HB3	14:AN:126:PRO:HD3	1.91	0.52
14:AN:131:ILE:O	14:AN:132:VAL:CG1	2.57	0.52
14:AN:136:ALA:HB1	23:AW:76:LEU:CD1	2.40	0.52
15:AO:13:HIS:CD2	15:AO:15:SER:HG	2.28	0.52
15:AO:25:ALA:CA	15:AO:48:VAL:HG22	2.39	0.52
15:AO:34:ILE:CG2	15:AO:35:THR:N	2.73	0.52
15:AO:96:ARG:C	15:AO:114:VAL:HG13	2.35	0.52
15:AO:96:ARG:HD2	15:AO:115:GLU:OE2	2.09	0.52
16:AP:65:VAL:HG23	16:AP:66:ALA:N	2.25	0.52
19:AS:40:LEU:HB3	19:AS:51:VAL:HG13	1.91	0.52
20:AT:38:TYR:N	20:AT:38:TYR:CD1	2.75	0.52
22:AV:13:VAL:CG2	22:AV:14:LEU:N	2.72	0.52
23:AW:18:LEU:HD11	23:AW:38:TYR:CG	2.45	0.52
23:AW:28:MET:SD	23:AW:28:MET:C	2.92	0.52
24:AX:40:GLN:O	24:AX:57:PHE:HB3	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:43:TYR:CA	27:Aa:61:ARG:HH22	2.07	0.52
27:Aa:43:TYR:O	27:Aa:44:THR:OG1	2.21	0.52
29:Ac:19:ARG:HH11	29:Ac:43:CYS:CB	2.20	0.52
29:Ac:22:ALA:O	29:Ac:23:THR:OG1	2.24	0.52
31:Ae:23:VAL:CG1	31:Ae:24:ALA:N	2.72	0.52
34:BA:20:U:H6	34:BA:916:G:N2	2.08	0.52
34:BA:36:C:O3'	45:BP:123:LYS:HA	2.09	0.52
34:BA:50:A:N1	34:BA:360:A:O2'	2.31	0.52
34:BA:67:C:H2'	34:BA:68:G:C8	2.44	0.52
34:BA:112:G:C2'	34:BA:113:G:H5'	2.39	0.52
34:BA:135:C:C6	34:BA:135:C:C3'	2.93	0.52
34:BA:199:G:H2'	34:BA:200:G:H8	1.73	0.52
34:BA:299:G:C2'	34:BA:300:A:C8	2.92	0.52
34:BA:314:C:O3'	34:BA:315:A:O4'	2.27	0.52
34:BA:317:G:C2'	34:BA:318:G:H5'	2.39	0.52
34:BA:558:G:O5'	34:BA:559:A:C3'	2.58	0.52
34:BA:587:G:N3	34:BA:755:G:N1	2.58	0.52
34:BA:675:A:N3	44:BO:116:HIS:HB2	2.25	0.52
34:BA:812:C:H4'	34:BA:813:U:H6	1.75	0.52
34:BA:857:C:N3	34:BA:858:G:H1'	2.25	0.52
34:BA:872:A:O2'	34:BA:873:A:P	2.68	0.52
34:BA:886:G:H2'	34:BA:887:G:C5'	2.39	0.52
34:BA:1105:A:H2'	34:BA:1106:G:C8	2.39	0.52
34:BA:1107:C:H2'	34:BA:1107:C:O2	2.09	0.52
34:BA:1116:C:C2	34:BA:1117:G:N7	2.78	0.52
34:BA:1227:A:C8	34:BA:1228:C:O4'	2.58	0.52
34:BA:1317:C:C5	34:BA:1318:A:C4	2.86	0.52
34:BA:1343:G:H2'	34:BA:1344:C:O4'	2.10	0.52
34:BA:1430:C:C2	34:BA:1471:G:N2	2.77	0.52
35:BF:56:ARG:HH11	35:BF:57:PHE:N	2.07	0.52
37:BH:35:ARG:O	37:BH:36:ARG:C	2.52	0.52
37:BH:106:TYR:CE1	37:BH:112:VAL:C	2.87	0.52
37:BH:126:ILE:O	37:BH:132:ARG:CB	2.58	0.52
38:BI:34:VAL:HG21	38:BI:62:ALA:HB1	1.89	0.52
38:BI:98:THR:CG2	38:BI:119:LEU:HD21	2.39	0.52
38:BI:103:GLY:O	38:BI:104:ALA:C	2.52	0.52
39:BJ:62:TRP:CG	51:BV:35:ARG:HH12	2.27	0.52
41:BL:19:VAL:O	41:BL:20:TYR:HB2	2.09	0.52
41:BL:103:VAL:HG11	41:BL:109:ILE:N	2.24	0.52
43:BN:79:ARG:HD3	43:BN:80:LYS:N	2.24	0.52
44:BO:43:SER:CB	44:BO:64:ALA:HB1	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:90:VAL:HG12	45:BP:90:VAL:O	2.10	0.52
46:BQ:65:LYS:HA	46:BQ:66:LEU:C	2.35	0.52
50:BU:5:VAL:HG13	50:BU:59:ILE:C	2.31	0.52
50:BU:29:HIS:CG	50:BU:30:PRO:HD2	2.45	0.52
52:BW:35:SER:C	52:BW:37:ARG:H	2.18	0.52
54:BY:17:THR:O	54:BY:22:ARG:NH2	2.43	0.52
55:CA:10:ILE:HD13	55:CA:21:LEU:CD1	2.39	0.52
55:CA:236:GLN:HG2	55:CA:246:THR:C	2.35	0.52
55:CA:236:GLN:CD	55:CA:245:LYS:HZ3	2.18	0.52
55:CA:392:ILE:O	55:CA:394:GLY:HA3	2.09	0.52
55:CA:483:ARG:CZ	55:CA:573:ASP:CB	2.86	0.52
1:AA:78:A:H2'	1:AA:79:G:C8	2.45	0.52
1:AA:120:U:C6	1:AA:150:C:H5	2.28	0.52
1:AA:143:C:C2	1:AA:144:C:H5	2.27	0.52
1:AA:245:G:C4	1:AA:246:C:C5	2.95	0.52
1:AA:428:A:H5'	1:AA:429:A:OP2	2.09	0.52
1:AA:624:C:H3'	1:AA:624:C:H6	1.69	0.52
1:AA:672:C:H2'	1:AA:673:C:C5	2.44	0.52
1:AA:672:C:C2	1:AA:673:C:C5	2.98	0.52
1:AA:675:A:H5''	6:AF:67:GLN:OE1	2.10	0.52
1:AA:730:C:H5'	1:AA:761:A:OP1	2.10	0.52
1:AA:796:C:O5'	1:AA:796:C:H6	1.91	0.52
1:AA:844:C:OP2	1:AA:844:C:C6	2.62	0.52
1:AA:848:G:H2'	1:AA:849:A:N7	2.23	0.52
1:AA:873:G:H2'	1:AA:874:G:O4'	2.09	0.52
1:AA:902:C:C2'	1:AA:903:C:C2	2.86	0.52
1:AA:969:U:H6	1:AA:969:U:O5'	1.92	0.52
1:AA:1077:A:H62	1:AA:1088:A:C2'	2.23	0.52
1:AA:1157:G:C6	1:AA:1158:C:C4	2.98	0.52
1:AA:1194:A:C6	1:AA:1195:G:N7	2.78	0.52
1:AA:1306:C:H2'	1:AA:1307:A:O4'	2.10	0.52
1:AA:1326:U:H2'	1:AA:1326:U:O2	2.09	0.52
1:AA:1358:G:N1	1:AA:1372:U:OP2	2.36	0.52
1:AA:1360:A:C2'	1:AA:1361:G:H5'	2.40	0.52
1:AA:1449(A):G:C6	1:AA:1450:C:N4	2.78	0.52
1:AA:1540:G:C6	1:AA:1541:U:H1'	2.45	0.52
1:AA:1568:G:OP2	4:AD:61:LEU:CD1	2.57	0.52
1:AA:1608:A:C4'	1:AA:1609:A:OP1	2.56	0.52
1:AA:1624:G:N1	1:AA:1625:C:N4	2.57	0.52
1:AA:1693:U:O2	1:AA:1693:U:C2'	2.56	0.52
1:AA:1809:A:H8	1:AA:1810:A:O4'	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1861:G:H4'	3:AC:205:LYS:HZ1	1.74	0.52
1:AA:1954:G:C2'	1:AA:1956:U:C4	2.93	0.52
1:AA:1993:U:N3	1:AA:1994:C:N4	2.56	0.52
1:AA:2004:G:C8	1:AA:2005:A:C8	2.97	0.52
1:AA:2136:C:C4	1:AA:2137:C:C5	2.98	0.52
1:AA:2191:G:H21	1:AA:2192:G:H1'	1.75	0.52
1:AA:2216:G:N3	4:AD:150:LYS:NZ	2.57	0.52
1:AA:2256:G:N2	1:AA:2275:C:N4	2.58	0.52
1:AA:2302:G:C6	1:AA:2315:G:C6	2.98	0.52
1:AA:2343:C:O2	1:AA:2344:U:H6	1.93	0.52
1:AA:2393:A:H4'	13:AM:56:SER:H	1.74	0.52
1:AA:2435:A:C2'	1:AA:2436:G:O5'	2.57	0.52
1:AA:2578:G:N7	5:AE:140:SER:HB2	2.25	0.52
1:AA:2623:G:H21	28:Ab:22:HIS:CE1	2.23	0.52
1:AA:2626:C:C2	1:AA:2627:G:C8	2.98	0.52
1:AA:2651:C:N4	1:AA:2670:A:N6	2.58	0.52
1:AA:2664:G:H8	1:AA:2664:G:O5'	1.93	0.52
1:AA:2691:C:O4'	1:AA:2872:G:N7	2.43	0.52
1:AA:2720:U:H3'	1:AA:2721:A:H8	1.73	0.52
1:AA:2767:C:O2	1:AA:2768:C:C5	2.63	0.52
1:AA:2811:G:H22	1:AA:2891:G:H1'	1.75	0.52
1:AA:2815:C:H4'	28:Ab:42:PRO:CG	2.36	0.52
1:AA:2853:C:H2'	1:AA:2854:G:C8	2.39	0.52
1:AA:2876:G:C2	1:AA:2877:G:N7	2.77	0.52
1:AA:2882:A:H5''	15:AO:98:LEU:HD21	1.91	0.52
2:AB:30:C:O4'	2:AB:58:A:C2	2.62	0.52
2:AB:43:C:O2	7:AG:95:ARG:CB	2.49	0.52
3:AC:52:ARG:CG	3:AC:53:ARG:HG3	2.38	0.52
3:AC:54:SER:HA	3:AC:57:ASN:ND2	2.24	0.52
3:AC:91:ALA:CB	3:AC:153:ILE:HG21	2.35	0.52
4:AD:168:ARG:HA	4:AD:174:ILE:CD1	2.39	0.52
4:AD:188:GLU:CD	4:AD:188:GLU:H	2.15	0.52
5:AE:67:PHE:O	5:AE:70:ALA:N	2.43	0.52
5:AE:142:GLY:O	5:AE:143:ASN:CB	2.56	0.52
5:AE:169:ASN:C	5:AE:170:LEU:HD23	2.35	0.52
6:AF:46:ARG:HG2	6:AF:46:ARG:NH1	2.23	0.52
7:AG:26:GLN:OE1	7:AG:29:TRP:CE3	2.63	0.52
7:AG:38:VAL:CG1	7:AG:93:THR:HG23	2.40	0.52
7:AG:121:ASN:OD1	7:AG:180:PHE:HB2	2.10	0.52
10:AJ:51:ALA:CA	10:AJ:76:TYR:CD1	2.76	0.52
10:AJ:62:ASP:CB	10:AJ:63:ARG:CA	2.88	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:81:ALA:O	10:AJ:107:ILE:HD11	2.09	0.52
11:AK:107:LEU:HD13	11:AK:117:PHE:CD1	2.45	0.52
12:AL:47:ILE:HG12	12:AL:48:PRO:O	2.09	0.52
12:AL:68:GLU:HG2	12:AL:76:ALA:CA	2.39	0.52
13:AM:7:ARG:HD3	13:AM:8:PRO:HD3	1.87	0.52
13:AM:73:GLY:C	13:AM:107:LYS:HE3	2.35	0.52
13:AM:105:LEU:O	13:AM:106:LEU:CG	2.53	0.52
14:AN:35:VAL:CG2	14:AN:101:ARG:O	2.53	0.52
14:AN:66:ILE:O	14:AN:67:ARG:CB	2.57	0.52
14:AN:134:ARG:CZ	14:AN:137:TYR:N	2.62	0.52
15:AO:102:GLU:HG3	15:AO:103:ARG:H	1.75	0.52
16:AP:62:LYS:O	16:AP:64:GLU:N	2.41	0.52
17:AQ:17:THR:HG21	17:AQ:20:PRO:CA	2.40	0.52
17:AQ:17:THR:HG21	17:AQ:20:PRO:HA	1.90	0.52
18:AR:74:LEU:C	18:AR:78:THR:OG1	2.52	0.52
20:AT:74:ALA:HB2	20:AT:106:ILE:H	1.73	0.52
23:AW:19:ARG:HE	23:AW:24:LEU:CD2	2.22	0.52
23:AW:100:VAL:O	23:AW:124:ILE:CG2	2.56	0.52
23:AW:139:VAL:HG12	23:AW:140:ASP:H	1.75	0.52
23:AW:176:PRO:HB2	23:AW:179:ASP:H	1.75	0.52
24:AX:52:GLY:HA3	24:AX:60:PHE:CE1	2.44	0.52
25:AY:28:MET:HA	25:AY:31:ARG:CG	2.37	0.52
26:AZ:19:GLN:HE22	26:AZ:50:VAL:HA	1.73	0.52
26:AZ:29:ARG:HB2	26:AZ:30:ARG:HH11	1.72	0.52
27:Aa:12:ALA:N	27:Aa:40:HIS:NE2	2.56	0.52
27:Aa:57:GLU:CA	27:Aa:61:ARG:CZ	2.85	0.52
29:Ac:9:LEU:C	29:Ac:10:LEU:HD23	2.35	0.52
29:Ac:42:TRP:CD1	29:Ac:42:TRP:C	2.87	0.52
31:Ae:2:PRO:HB2	31:Ae:4:MET:CE	2.39	0.52
34:BA:283:C:O2	34:BA:284:G:O4'	2.28	0.52
34:BA:355:C:N4	34:BA:356:A:N6	2.56	0.52
34:BA:386:C:C4	34:BA:387:U:C5	2.98	0.52
34:BA:503:C:C2	34:BA:504:C:C5	2.98	0.52
34:BA:649:G:H2'	34:BA:650:G:C8	2.44	0.52
34:BA:669:U:O4'	48:BS:46:HIS:HE1	1.91	0.52
34:BA:684:A:C3'	44:BO:12:ARG:HH22	2.23	0.52
34:BA:739:C:H2'	34:BA:740:U:C5'	2.40	0.52
34:BA:766:A:C8	34:BA:814:A:C6	2.97	0.52
34:BA:775:G:N3	34:BA:776:G:C8	2.77	0.52
34:BA:967:C:H2'	34:BA:968:A:C8	2.45	0.52
34:BA:978:A:H3'	34:BA:978:A:C8	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1002:G:N2	34:BA:1039:C:N4	2.57	0.52
34:BA:1026:G:H2'	34:BA:1027:C:C5'	2.38	0.52
34:BA:1060:C:H2'	34:BA:1061:G:C8	2.45	0.52
34:BA:1064:G:OP1	34:BA:1386:G:C5'	2.58	0.52
34:BA:1124:G:O6	34:BA:1147:C:N4	2.36	0.52
34:BA:1163:C:H2'	34:BA:1163:C:O2	2.08	0.52
34:BA:1187:G:O2'	47:BR:61:TRP:OXT	2.22	0.52
34:BA:1210:C:O2'	34:BA:1214:C:N3	2.38	0.52
34:BA:1252:A:C5	34:BA:1253:G:C8	2.98	0.52
34:BA:1268:A:H2	34:BA:1311:G:C4	2.28	0.52
34:BA:1293:G:C4	34:BA:1294:G:C8	2.98	0.52
34:BA:1329:A:C2'	34:BA:1330:U:H5'	2.40	0.52
34:BA:1396:A:O2'	34:BA:1397:C:H5''	2.10	0.52
35:BF:218:ALA:O	35:BF:219:VAL:C	2.52	0.52
36:BG:22:TRP:CZ2	36:BG:33:LEU:HG	2.45	0.52
36:BG:119:ARG:HG2	36:BG:120:VAL:N	2.25	0.52
36:BG:127:ARG:C	36:BG:128:PHE:HD1	2.18	0.52
37:BH:101:LEU:O	37:BH:104:VAL:N	2.43	0.52
37:BH:128:VAL:HG23	37:BH:133:VAL:N	2.25	0.52
38:BI:47:LYS:H	38:BI:57:LYS:CE	2.23	0.52
38:BI:84:PHE:HZ	38:BI:133:TYR:HB3	1.68	0.52
38:BI:107:ARG:O	38:BI:108:ALA:C	2.50	0.52
39:BJ:40:VAL:HG22	39:BJ:40:VAL:O	2.09	0.52
39:BJ:41:GLU:HG2	39:BJ:42:GLU:N	2.24	0.52
39:BJ:48:LEU:CD1	39:BJ:50:TYR:O	2.55	0.52
40:BK:56:GLN:H	40:BK:56:GLN:NE2	2.07	0.52
40:BK:71:PRO:HD2	40:BK:100:ALA:HB2	1.92	0.52
41:BL:98:LYS:N	41:BL:98:LYS:NZ	2.48	0.52
41:BL:100:ILE:HG23	41:BL:121:ASP:HA	1.92	0.52
46:BQ:97:PRO:HG2	46:BQ:101:GLN:HB2	1.91	0.52
48:BS:54:ARG:HD3	48:BS:55:GLY:N	2.24	0.52
49:BT:6:LEU:N	49:BT:6:LEU:CD1	2.67	0.52
50:BU:5:VAL:HA	50:BU:59:ILE:O	2.10	0.52
50:BU:7:THR:HG23	50:BU:8:GLY:H	1.74	0.52
52:BW:22:LEU:HA	52:BW:25:LYS:NZ	2.23	0.52
53:BX:31:SER:O	53:BX:32:ALA:C	2.53	0.52
54:BY:6:ARG:HG3	54:BY:7:ARG:N	2.24	0.52
55:CA:17:GLY:C	55:CA:20:THR:HG21	2.34	0.52
55:CA:57:LEU:HB3	55:CA:255:LEU:CA	2.39	0.52
55:CA:187:TYR:O	55:CA:191:VAL:HG23	2.09	0.52
55:CA:300:LEU:N	55:CA:301:SER:HA	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:317:PRO:CG	55:CA:519:TYR:CG	2.93	0.52
1:AA:387:U:O2'	1:AA:388:G:C8	2.62	0.52
1:AA:532:A:N6	18:AR:45:TYR:OH	2.25	0.52
1:AA:546:C:N3	1:AA:547:A:C6	2.78	0.52
1:AA:638:G:C8	1:AA:638:G:C3'	2.92	0.52
1:AA:648:G:N3	1:AA:649:G:N7	2.57	0.52
1:AA:672:C:C6	13:AM:38:GLN:CD	2.88	0.52
1:AA:675:A:O3'	6:AF:67:GLN:OE1	2.27	0.52
1:AA:733:G:N2	1:AA:734:A:N7	2.57	0.52
1:AA:818:G:C2'	1:AA:819:A:H5''	2.39	0.52
1:AA:833:U:H2'	1:AA:834:C:C6	2.45	0.52
1:AA:836:G:C6	1:AA:837:C:C4	2.98	0.52
1:AA:975:G:N7	1:AA:1186:G:N2	2.45	0.52
1:AA:988:A:OP1	26:AZ:10:LYS:HD3	2.10	0.52
1:AA:1007:C:O3'	11:AK:108:PRO:HG3	2.10	0.52
1:AA:1077:A:H5''	1:AA:1078:U:C2	2.44	0.52
1:AA:1087:G:N2	1:AA:1103:A:H2'	2.23	0.52
1:AA:1210:A:H5''	1:AA:1211:U:H3'	1.91	0.52
1:AA:1222:C:N3	1:AA:1223:C:C5	2.78	0.52
1:AA:1363:C:C2	1:AA:1369:G:N1	2.78	0.52
1:AA:1529:A:H8	1:AA:1530:G:N9	2.07	0.52
1:AA:1559:G:C6	1:AA:1560:G:C4'	2.91	0.52
1:AA:1634:A:O3'	1:AA:1635:G:N7	2.43	0.52
1:AA:1788:C:C6	1:AA:1788:C:C3'	2.93	0.52
1:AA:1861:G:H2'	1:AA:1862:G:C5'	2.39	0.52
1:AA:1916:A:N3	1:AA:1916:A:C2'	2.73	0.52
1:AA:2205:C:H2'	1:AA:2206:C:H6	1.74	0.52
1:AA:2308:G:N3	1:AA:2308:G:C2'	2.73	0.52
1:AA:2327:A:O2'	1:AA:2328:A:O4'	2.18	0.52
1:AA:2366:A:H3'	1:AA:2367:G:C8	2.45	0.52
1:AA:2415:G:N1	1:AA:2416:C:C4	2.78	0.52
1:AA:2496:C:OP1	14:AN:83:MET:CE	2.52	0.52
1:AA:2623:G:H22	28:Ab:22:HIS:CE1	2.22	0.52
1:AA:2638:G:N2	1:AA:2781:A:N6	2.57	0.52
1:AA:2649:U:O5'	1:AA:2649:U:H6	1.92	0.52
1:AA:2707:G:C2'	1:AA:2708:G:O5'	2.58	0.52
1:AA:2773:C:C2	1:AA:2774:C:C5	2.98	0.52
1:AA:2787:C:H5''	5:AE:64:LYS:HD2	1.92	0.52
1:AA:2888:C:O2'	1:AA:2889:C:O4'	2.24	0.52
2:AB:11:C:P	24:AX:74:ARG:HH12	2.32	0.52
2:AB:13:A:N6	2:AB:70:C:H5'	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:73:A:C8	2:AB:104:A:N1	2.78	0.52
5:AE:121:ASN:O	5:AE:122:PHE:C	2.53	0.52
6:AF:46:ARG:NE	6:AF:46:ARG:HA	2.25	0.52
7:AG:8:LYS:O	7:AG:8:LYS:HD3	2.09	0.52
7:AG:173:LEU:HA	7:AG:176:LEU:HB3	1.92	0.52
8:AH:23:ARG:NH1	8:AH:36:PRO:N	2.57	0.52
8:AH:29:PRO:N	8:AH:79:VAL:O	2.43	0.52
8:AH:44:VAL:HG22	8:AH:45:VAL:N	2.23	0.52
8:AH:137:ASP:OD2	8:AH:139:GLN:HG3	2.09	0.52
10:AJ:105:LEU:HD22	10:AJ:123:ALA:HB3	1.92	0.52
11:AK:46:VAL:O	11:AK:47:ALA:HB3	2.08	0.52
11:AK:55:VAL:O	11:AK:57:ALA:N	2.43	0.52
12:AL:12:ASP:N	12:AL:14:THR:HG22	2.24	0.52
12:AL:63:VAL:CG2	12:AL:80:ASP:O	2.57	0.52
13:AM:81:GLN:C	13:AM:86:LYS:CG	2.83	0.52
13:AM:114:ILE:O	13:AM:116:GLY:N	2.41	0.52
13:AM:122:PRO:CG	13:AM:137:LYS:C	2.77	0.52
14:AN:16:ARG:C	14:AN:17:LEU:HD12	2.35	0.52
14:AN:46:GLN:OE1	14:AN:125:LEU:O	2.28	0.52
14:AN:46:GLN:HE22	14:AN:126:PRO:HG3	1.74	0.52
15:AO:53:HIS:HA	15:AO:56:LYS:CD	2.38	0.52
15:AO:75:LEU:HD23	15:AO:78:LYS:CB	2.40	0.52
16:AP:31:SER:HB3	16:AP:34:HIS:CB	2.39	0.52
17:AQ:65:LYS:HA	17:AQ:76:PHE:C	2.35	0.52
18:AR:25:TRP:HE3	18:AR:25:TRP:C	2.18	0.52
18:AR:39:LEU:C	18:AR:41:ALA:N	2.68	0.52
20:AT:24:ILE:HG22	20:AT:32:ALA:CB	2.39	0.52
21:AU:57:LEU:HD23	21:AU:57:LEU:C	2.35	0.52
23:AW:75:ASN:HB3	23:AW:84:GLU:HB2	1.92	0.52
23:AW:96:VAL:HG13	23:AW:128:VAL:CG1	2.40	0.52
23:AW:127:LYS:HD3	23:AW:165:VAL:H	1.75	0.52
23:AW:149:SER:OG	23:AW:173:ALA:HB2	2.10	0.52
24:AX:20:ARG:O	24:AX:21:LEU:HB3	2.10	0.52
24:AX:28:GLY:C	24:AX:67:VAL:HB	2.35	0.52
25:AY:27:LEU:HD21	25:AY:49:LYS:N	2.25	0.52
27:Aa:7:PRO:CD	27:Aa:56:VAL:CG1	2.80	0.52
27:Aa:13:ARG:O	27:Aa:14:ILE:CG1	2.50	0.52
28:Ab:10:LYS:CE	28:Ab:15:ARG:CZ	2.86	0.52
31:Ae:9:GLY:O	31:Ae:10:ALA:C	2.50	0.52
34:BA:30:U:HO2'	34:BA:31:G:P	2.32	0.52
34:BA:250:A:N3	34:BA:252:U:C2	2.77	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:263:A:H5'	53:BX:75:ASN:HD21	1.75	0.52
34:BA:390:C:N4	34:BA:391:G:O6	2.43	0.52
34:BA:570:G:C6	34:BA:866:C:N4	2.78	0.52
34:BA:587:G:C2	34:BA:755:G:C5	2.98	0.52
34:BA:736:C:OP1	51:BV:72:ARG:NH2	2.42	0.52
34:BA:889:A:OP1	34:BA:891:U:H1'	2.09	0.52
34:BA:1056:U:H5'	36:BG:163:ALA:HB3	1.90	0.52
34:BA:1060:C:H2'	34:BA:1061:G:H8	1.75	0.52
34:BA:1104:G:H4'	35:BF:111:ARG:CZ	2.40	0.52
34:BA:1184:G:C2	34:BA:1185:G:C5	2.97	0.52
34:BA:1190:G:P	36:BG:5:ILE:HG13	2.50	0.52
34:BA:1202:G:C2'	34:BA:1203:C:O5'	2.58	0.52
34:BA:1215:G:N2	34:BA:1216:G:C8	2.78	0.52
34:BA:1302:U:O2'	34:BA:1303:C:C5'	2.58	0.52
34:BA:1321:C:C6	34:BA:1321:C:H3'	2.44	0.52
34:BA:1376:U:O4	40:BK:10:ARG:HD2	2.10	0.52
34:BA:1429:C:O2'	34:BA:1430:C:O5'	2.24	0.52
34:BA:1497:G:H2'	34:BA:1498:U:H5'	1.91	0.52
35:BF:43:ASP:O	35:BF:47:THR:HB	2.10	0.52
35:BF:95:GLN:HG3	35:BF:148:TYR:HB2	1.91	0.52
35:BF:130:ARG:CB	35:BF:131:PRO:CD	2.88	0.52
35:BF:207:ALA:C	35:BF:209:ARG:N	2.67	0.52
36:BG:87:LEU:HD12	36:BG:101:LEU:HD11	1.91	0.52
37:BH:30:LYS:N	37:BH:34:GLU:CB	2.72	0.52
38:BI:95:ALA:O	38:BI:96:PRO:O	2.27	0.52
39:BJ:52:ILE:CG2	39:BJ:53:ALA:N	2.71	0.52
40:BK:68:ASN:O	40:BK:135:VAL:HG13	2.10	0.52
40:BK:78:ARG:O	40:BK:84:ASN:CA	2.29	0.52
40:BK:150:ALA:HB2	44:BO:59:TYR:CD2	2.44	0.52
41:BL:88:LYS:HZ3	41:BL:88:LYS:CB	2.23	0.52
43:BN:24:VAL:CA	43:BN:34:VAL:HG21	2.35	0.52
45:BP:105:TYR:O	55:CA:329:ARG:HD2	2.08	0.52
46:BQ:40:ASN:ND2	46:BQ:42:ALA:H	2.07	0.52
46:BQ:73:GLU:O	46:BQ:77:ASN:CB	2.58	0.52
48:BS:53:HIS:O	48:BS:57:LEU:CD1	2.56	0.52
48:BS:79:ARG:HG2	48:BS:82:ILE:HD12	1.91	0.52
49:BT:32:TYR:N	49:BT:32:TYR:HD1	2.07	0.52
49:BT:38:TYR:O	49:BT:49:LEU:HD12	2.10	0.52
49:BT:43:LYS:HE3	49:BT:48:TRP:HZ3	1.74	0.52
49:BT:82:GLN:O	49:BT:82:GLN:CG	2.57	0.52
53:BX:91:LEU:HD23	53:BX:91:LEU:H	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:2:ILE:HG22	55:CA:2:ILE:O	2.10	0.52
55:CA:19:THR:HB	55:CA:22:VAL:H	1.75	0.52
55:CA:24:LYS:CG	55:CA:25:LEU:N	2.73	0.52
55:CA:64:ILE:N	55:CA:65:LYS:CA	2.73	0.52
55:CA:231:VAL:HG11	55:CA:273:ILE:CD1	2.35	0.52
55:CA:404:THR:H	55:CA:438:ARG:HG2	1.73	0.52
1:AA:70:G:H4'	1:AA:71:A:O5'	2.10	0.52
1:AA:248:G:N2	1:AA:2431:U:H5'	2.25	0.52
1:AA:271(B):G:H5''	1:AA:271(C):U:H5'	1.92	0.52
1:AA:287:C:C3'	1:AA:288:C:H5	2.23	0.52
1:AA:330:A:HO2'	1:AA:1210:A:N6	2.08	0.52
1:AA:543:C:C2	1:AA:551:G:C2	2.98	0.52
1:AA:685:A:O2'	1:AA:686:G:P	2.68	0.52
1:AA:742:G:O2'	1:AA:1676:A:H4'	2.10	0.52
1:AA:819:A:H2'	1:AA:820:A:H8	1.68	0.52
1:AA:912:C:O2'	1:AA:913:U:H5'	2.10	0.52
1:AA:1011:G:C5'	1:AA:1012:U:OP2	2.57	0.52
1:AA:1021:A:H2	1:AA:1122:G:H4'	1.73	0.52
1:AA:1242:A:H3'	1:AA:1243:G:C8	2.45	0.52
1:AA:1364:G:O6	27:Aa:2:LYS:NZ	2.40	0.52
1:AA:1476:C:C5	1:AA:1477:A:C6	2.98	0.52
1:AA:1670:C:O2'	1:AA:1671:U:H5'	2.09	0.52
1:AA:1746:G:H2'	1:AA:1747:G:O4'	2.10	0.52
1:AA:1838:C:C2'	1:AA:1898:U:O4	2.58	0.52
1:AA:1858:G:H22	1:AA:1884:A:C1'	2.22	0.52
1:AA:1904:G:C2'	1:AA:1905:C:C5'	2.87	0.52
1:AA:1983:C:HO2'	1:AA:1984:G:H5'	1.72	0.52
1:AA:2069:G:O2'	1:AA:2070:G:H5'	2.10	0.52
1:AA:2230:G:O2'	1:AA:2231:C:H5'	2.09	0.52
1:AA:2447:G:H3'	1:AA:2499:C:O5'	2.10	0.52
1:AA:2449:U:OP1	1:AA:2449:U:O4'	2.26	0.52
1:AA:2472:G:H2'	1:AA:2475:C:H42	1.73	0.52
1:AA:2651:C:N3	1:AA:2670:A:N1	2.32	0.52
1:AA:2655:G:N3	1:AA:2655:G:C3'	2.73	0.52
1:AA:2674:G:C5	1:AA:2675:A:N7	2.78	0.52
1:AA:2682:U:H2'	1:AA:2683:C:C5'	2.40	0.52
1:AA:2773:C:P	5:AE:164:ARG:NH1	2.83	0.52
1:AA:2815:C:C2'	1:AA:2816:C:H5'	2.40	0.52
1:AA:2841:C:C2	1:AA:2842:G:C8	2.97	0.52
3:AC:6:ARG:C	3:AC:8:ARG:H	2.18	0.52
3:AC:59:ARG:HH11	3:AC:59:ARG:CB	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:90:GLY:CA	3:AC:157:LYS:HB2	2.38	0.52
3:AC:171:ILE:CD1	3:AC:196:LEU:HD11	2.40	0.52
3:AC:185:LEU:N	3:AC:185:LEU:HD23	2.23	0.52
4:AD:177:LEU:HD23	4:AD:177:LEU:N	2.22	0.52
4:AD:182:LEU:N	4:AD:270:ILE:HG13	2.25	0.52
4:AD:226:MET:O	4:AD:227:ASN:C	2.53	0.52
5:AE:5:LEU:O	5:AE:195:LEU:CD2	2.58	0.52
5:AE:47:VAL:CG2	5:AE:79:ARG:HB2	2.35	0.52
5:AE:80:GLU:N	5:AE:80:GLU:CD	2.68	0.52
5:AE:108:SER:O	5:AE:109:LYS:C	2.53	0.52
5:AE:138:PRO:O	5:AE:139:GLY:O	2.28	0.52
5:AE:151:TYR:CG	5:AE:152:LYS:N	2.57	0.52
6:AF:37:VAL:O	6:AF:184:TYR:OH	2.27	0.52
6:AF:49:ALA:HB3	6:AF:94:PRO:CA	2.40	0.52
6:AF:53:THR:O	6:AF:56:GLU:OE1	2.28	0.52
6:AF:121:GLY:CA	6:AF:191:ARG:NE	2.73	0.52
7:AG:17:PRO:HA	7:AG:20:ILE:CB	2.39	0.52
7:AG:21:ARG:O	7:AG:22:ARG:C	2.52	0.52
7:AG:55:LYS:HB3	7:AG:152:LEU:HD21	1.92	0.52
7:AG:148:MET:HB3	7:AG:151:ALA:CB	2.40	0.52
8:AH:146:ALA:O	8:AH:147:ASN:C	2.52	0.52
10:AJ:79:ARG:HH22	10:AJ:84:LEU:HG	1.75	0.52
11:AK:44:PRO:HG2	11:AK:45:ASN:OD1	2.10	0.52
13:AM:126:VAL:HB	13:AM:146:VAL:H	1.74	0.52
14:AN:12:GLN:NE2	14:AN:13:GLN:NE2	2.41	0.52
14:AN:112:GLU:HA	14:AN:115:MET:CB	2.40	0.52
15:AO:54:LEU:N	15:AO:54:LEU:CD1	2.71	0.52
16:AP:31:SER:C	16:AP:97:ARG:NH1	2.68	0.52
16:AP:74:ALA:CB	16:AP:108:GLY:HA3	2.35	0.52
17:AQ:93:ARG:HG2	17:AQ:95:ARG:HH21	1.74	0.52
18:AR:55:ARG:HA	18:AR:58:ARG:CZ	2.40	0.52
19:AS:79:VAL:CB	19:AS:81:TYR:HD1	2.23	0.52
20:AT:88:ARG:HA	20:AT:88:ARG:HE	1.70	0.52
20:AT:104:THR:HG23	20:AT:104:THR:O	2.09	0.52
21:AU:15:GLU:CA	21:AU:16:LYS:HE2	2.40	0.52
23:AW:40:ASP:O	23:AW:44:PHE:HB2	2.10	0.52
23:AW:161:VAL:CG1	23:AW:162:GLU:N	2.72	0.52
24:AX:50:ASN:O	24:AX:62:LEU:CB	2.57	0.52
24:AX:57:PHE:HD1	24:AX:57:PHE:N	2.08	0.52
25:AY:10:LYS:HB2	25:AY:11:LEU:HD12	1.92	0.52
25:AY:16:LEU:CD2	25:AY:58:VAL:HG22	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:30:LEU:O	25:AY:31:ARG:C	2.52	0.52
26:AZ:3:ARG:HH12	26:AZ:59:VAL:CG2	2.21	0.52
26:AZ:40:THR:O	26:AZ:44:ARG:HG3	2.10	0.52
29:Ac:16:CYS:HB2	29:Ac:49:HIS:C	2.35	0.52
30:Ad:40:TRP:O	30:Ad:41:ARG:CB	2.58	0.52
34:BA:272:C:C2'	34:BA:273:A:H8	2.17	0.52
34:BA:458:C:N4	34:BA:464:G:C6	2.78	0.52
34:BA:498:A:H1'	34:BA:500:G:O4'	2.09	0.52
34:BA:626:U:O2'	34:BA:627:G:H5'	2.10	0.52
34:BA:702:A:HO2'	34:BA:703:G:P	2.32	0.52
34:BA:785:G:C6	34:BA:798:G:C6	2.98	0.52
34:BA:811:C:H3'	34:BA:811:C:C6	2.43	0.52
34:BA:954:G:H2'	34:BA:955:U:C6	2.45	0.52
34:BA:971:G:N2	34:BA:1363:A:OP2	2.43	0.52
34:BA:1129:C:H4'	34:BA:1130:A:H8	1.74	0.52
34:BA:1155:G:H21	34:BA:1179:A:N6	2.08	0.52
34:BA:1161:C:H2'	34:BA:1162:C:C5	2.45	0.52
34:BA:1178:G:H21	34:BA:1180:A:H3'	1.74	0.52
34:BA:1276:G:O2'	34:BA:1277:C:H5'	2.10	0.52
34:BA:1321:C:C5	34:BA:1322:C:C2'	2.93	0.52
34:BA:1384:C:H2'	34:BA:1385:G:O4'	2.09	0.52
34:BA:1449:C:H2'	34:BA:1449:C:O2	2.09	0.52
34:BA:1450:U:H1'	34:BA:1453:G:H1	1.75	0.52
34:BA:1475:G:O2'	34:BA:1476:G:H5'	2.10	0.52
34:BA:1484:C:C4	34:BA:1485:U:C5	2.98	0.52
34:BA:1497:G:O2'	34:BA:1498:U:H5'	2.09	0.52
56:BA:1601:NMY:N2	56:BA:1601:NMY:H171	2.24	0.52
35:BF:58:ILE:O	35:BF:61:LEU:CD2	2.58	0.52
35:BF:80:ILE:HG12	35:BF:212:GLN:HG2	1.91	0.52
35:BF:107:THR:HA	35:BF:110:GLN:OE1	2.09	0.52
35:BF:124:SER:C	35:BF:126:GLU:N	2.67	0.52
36:BG:24:ALA:CB	36:BG:32:LEU:HD12	2.38	0.52
36:BG:136:GLN:HA	36:BG:139:GLN:HB2	1.91	0.52
37:BH:128:VAL:O	37:BH:130:GLY:N	2.42	0.52
38:BI:32:VAL:C	38:BI:43:LEU:HG	2.35	0.52
39:BJ:51:PRO:HA	39:BJ:55:ASP:O	2.10	0.52
40:BK:20:ASP:OD1	40:BK:22:LEU:HB2	2.10	0.52
40:BK:44:TYR:O	40:BK:45:ASP:C	2.52	0.52
40:BK:119:ARG:O	40:BK:120:ILE:C	2.52	0.52
41:BL:14:ARG:HD2	41:BL:14:ARG:C	2.35	0.52
41:BL:127:LEU:HD13	41:BL:127:LEU:C	2.35	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:28:ARG:HG2	43:BN:28:ARG:NH1	2.25	0.52
44:BO:22:HIS:CD2	44:BO:22:HIS:C	2.87	0.52
45:BP:32:PHE:HB2	45:BP:84:LEU:CD1	2.36	0.52
45:BP:84:LEU:O	45:BP:100:ILE:HG22	2.10	0.52
46:BQ:19:LEU:HD13	46:BQ:30:ALA:N	2.10	0.52
48:BS:78:TYR:O	48:BS:81:LEU:HB3	2.10	0.52
50:BU:84:LEU:O	50:BU:87:LYS:N	2.43	0.52
51:BV:31:LEU:HD21	51:BV:62:GLU:OE2	2.10	0.52
52:BW:6:LYS:CB	52:BW:41:VAL:HG12	2.35	0.52
53:BX:33:ILE:O	53:BX:34:LYS:C	2.53	0.52
55:CA:158:LEU:HA	55:CA:159:ASP:C	2.35	0.52
55:CA:436:ARG:HG2	55:CA:436:ARG:HH11	1.75	0.52
55:CA:496:ALA:HB1	55:CA:501:LEU:HD12	1.92	0.52
1:AA:241:A:C8	1:AA:243:U:C2	2.97	0.52
1:AA:270(X):G:O6	1:AA:270(Y):G:N3	2.43	0.52
1:AA:320:A:H3'	6:AF:136:THR:OG1	2.09	0.52
1:AA:371:A:C2	1:AA:372:G:N1	2.78	0.52
1:AA:423:A:H2'	1:AA:424:G:OP1	2.10	0.52
1:AA:424:G:C2	1:AA:425:G:C8	2.97	0.52
1:AA:464:U:C2	1:AA:788:A:C5	2.98	0.52
1:AA:464:U:N3	1:AA:465:G:C6	2.78	0.52
1:AA:511:U:C4	1:AA:512:G:H1'	2.45	0.52
1:AA:534:U:OP1	18:AR:24:TYR:HE2	1.93	0.52
1:AA:572:A:C8	1:AA:573:G:C4	2.98	0.52
1:AA:616:A:H1'	6:AF:180:GLY:HA3	1.91	0.52
1:AA:655:A:O3'	1:AA:656:G:O4'	2.28	0.52
1:AA:730:C:C3'	1:AA:731:C:H5'	2.40	0.52
1:AA:753:C:O2	1:AA:753:C:H2'	2.10	0.52
1:AA:975:G:N3	1:AA:975:G:C2'	2.73	0.52
1:AA:1005:C:C5	1:AA:1142(A):A:O3'	2.63	0.52
1:AA:1024:G:C6	1:AA:1025:G:H8	2.26	0.52
1:AA:1189:A:H5''	13:AM:29:LYS:NZ	2.24	0.52
1:AA:1195:G:O2'	1:AA:1226:G:N2	2.39	0.52
1:AA:1222:C:C4	1:AA:1227:A:N6	2.78	0.52
1:AA:1243:G:C2	1:AA:1244:G:C4	2.98	0.52
1:AA:1265:A:O4'	1:AA:1267:U:N3	2.43	0.52
1:AA:1381:G:C5	1:AA:1382:G:C5	2.98	0.52
1:AA:1477:A:H8	1:AA:1477:A:OP2	1.93	0.52
1:AA:1677:A:C2	1:AA:1678:G:C4	2.97	0.52
1:AA:1682:G:H3'	1:AA:1683:C:C5	2.45	0.52
1:AA:1730:U:O5'	1:AA:1730:U:H6	1.93	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1819:A:O2'	1:AA:1820:U:H5'	2.09	0.52
1:AA:1871:A:H2'	1:AA:1872:A:H8	1.75	0.52
1:AA:1920:C:H5	56:AA:3001:NMY:H4	1.73	0.52
1:AA:1946:U:O2'	1:AA:1947:C:O5'	2.27	0.52
1:AA:2175:C:OP1	3:AC:5:LYS:CG	2.58	0.52
1:AA:2205:C:C2'	1:AA:2206:C:H5'	2.40	0.52
1:AA:2274:A:C5	1:AA:2276:G:C8	2.98	0.52
1:AA:2287:A:C2'	1:AA:2288:A:O5'	2.58	0.52
1:AA:2327:A:N7	1:AA:2388:A:N6	2.57	0.52
1:AA:2328:A:H2'	1:AA:2329:G:C8	2.45	0.52
1:AA:2353:G:C6	1:AA:2365:G:N2	2.78	0.52
1:AA:2353:G:O2'	24:AX:35:ASN:ND2	2.43	0.52
1:AA:2637:U:OP1	5:AE:81:ILE:HD11	2.10	0.52
1:AA:2671:A:C2	1:AA:2672:G:C6	2.98	0.52
1:AA:2701:C:C3'	1:AA:2702:U:C5'	2.80	0.52
1:AA:2735:G:H4'	5:AE:203:LYS:HE3	1.92	0.52
1:AA:2749:A:C2	1:AA:2750:A:N6	2.77	0.52
1:AA:2785:C:C4	1:AA:2786:U:C4	2.98	0.52
1:AA:2808:U:C3'	1:AA:2810:A:OP1	2.56	0.52
1:AA:2820:A:H62	5:AE:191:PRO:HB3	1.75	0.52
1:AA:2886:G:N2	1:AA:2887:U:H1'	2.26	0.52
3:AC:189:ILE:HD11	3:AC:214:VAL:HG21	1.92	0.52
4:AD:96:HIS:CG	4:AD:102:LYS:HG2	2.44	0.52
5:AE:14:ILE:CG2	5:AE:19:ARG:HA	2.40	0.52
5:AE:57:LYS:O	5:AE:58:ARG:NH1	2.43	0.52
5:AE:91:VAL:HG23	5:AE:180:ASN:CG	2.34	0.52
5:AE:97:LYS:HD2	5:AE:98:PRO:HD2	1.90	0.52
5:AE:151:TYR:CD1	5:AE:152:LYS:N	2.75	0.52
7:AG:38:VAL:O	7:AG:157:ILE:HG13	2.09	0.52
7:AG:39:ILE:HG13	7:AG:157:ILE:HD11	1.92	0.52
7:AG:107:LEU:HD12	7:AG:111:LEU:CD1	2.39	0.52
8:AH:69:ARG:O	8:AH:73:ALA:HB2	2.10	0.52
9:AI:30:GLN:O	9:AI:32:LEU:N	2.34	0.52
10:AJ:12:LEU:CD1	10:AJ:57:ILE:CG2	2.89	0.52
10:AJ:22:PRO:CD	10:AJ:23:VAL:H	2.22	0.52
10:AJ:28:GLY:O	55:CA:431:PRO:CG	2.57	0.52
11:AK:72:TYR:CE2	11:AK:74:ARG:HB3	2.45	0.52
12:AL:15:GLY:N	12:AL:52:VAL:HG21	2.25	0.52
12:AL:113:LYS:NZ	12:AL:117:LEU:HB2	2.25	0.52
13:AM:49:ARG:HH12	31:Ae:55:ALA:HB2	1.74	0.52
13:AM:74:GLU:CB	13:AM:107:LYS:HZ2	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:51:ARG:CD	14:AN:52:VAL:N	2.70	0.52
15:AO:32:GLY:C	15:AO:116:LEU:HD21	2.32	0.52
15:AO:43:GLU:OE1	15:AO:43:GLU:HA	2.10	0.52
15:AO:83:ILE:O	15:AO:84:ALA:C	2.53	0.52
16:AP:67:ARG:NE	16:AP:71:ARG:HD2	2.25	0.52
17:AQ:70:VAL:CB	17:AQ:74:ARG:HH11	2.14	0.52
17:AQ:108:ARG:O	17:AQ:109:GLU:C	2.53	0.52
19:AS:62:LEU:CD1	19:AS:98:GLU:HA	2.39	0.52
19:AS:81:TYR:O	19:AS:82:ARG:CB	2.56	0.52
20:AT:38:TYR:N	20:AT:38:TYR:HD1	2.08	0.52
21:AU:85:PRO:HG3	21:AU:87:GLN:HG2	1.91	0.52
22:AV:47:LYS:HZ3	22:AV:51:VAL:HG21	1.67	0.52
23:AW:5:LEU:HB2	23:AW:23:LYS:NZ	2.24	0.52
23:AW:120:ILE:HB	23:AW:123:ASP:OD1	2.09	0.52
23:AW:163:LEU:HD12	23:AW:163:LEU:H	1.73	0.52
24:AX:11:ARG:HG2	24:AX:11:ARG:NH1	2.25	0.52
24:AX:19:LYS:HG2	24:AX:20:ARG:N	2.21	0.52
25:AY:27:LEU:HG	25:AY:48:LEU:HB3	1.92	0.52
26:AZ:50:VAL:HG12	26:AZ:51:ALA:N	2.23	0.52
27:Aa:33:VAL:O	27:Aa:33:VAL:HG12	2.10	0.52
30:Ad:30:VAL:HG13	30:Ad:33:ARG:NH1	2.24	0.52
31:Ae:51:ALA:C	31:Ae:53:PRO:HD2	2.35	0.52
34:BA:22:G:C4	34:BA:23:C:C6	2.98	0.52
34:BA:40:C:O2'	34:BA:41:G:H5'	2.09	0.52
34:BA:210:U:H4'	34:BA:216:G:O4'	2.10	0.52
34:BA:241:C:C2'	34:BA:242:C:O5'	2.57	0.52
34:BA:297:G:O2'	34:BA:299:G:N7	2.37	0.52
34:BA:355:C:C4	34:BA:356:A:N7	2.78	0.52
34:BA:375:U:H2'	34:BA:376:G:C5'	2.39	0.52
34:BA:475:G:C2	34:BA:476:G:C5	2.98	0.52
34:BA:637:G:O2'	34:BA:638:G:H5'	2.09	0.52
34:BA:735:C:O2'	51:BV:75:ILE:CD1	2.57	0.52
34:BA:833:U:O2'	34:BA:834:C:H6	1.92	0.52
34:BA:996:A:C2	34:BA:997:U:C5	2.98	0.52
34:BA:1031:G:O2'	34:BA:1032:A:H5'	2.10	0.52
34:BA:1064:G:N3	34:BA:1066:C:C4	2.78	0.52
34:BA:1105:A:C2'	34:BA:1106:G:H5'	2.38	0.52
34:BA:1262:C:C2	34:BA:1263:C:C5	2.98	0.52
34:BA:1370:G:H5''	42:BM:12:GLU:HG3	1.92	0.52
34:BA:1450:U:C1'	34:BA:1454:G:N2	2.73	0.52
35:BF:32:ILE:HD11	35:BF:40:HIS:CD2	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:117:GLU:CD	35:BF:118:LEU:N	2.68	0.52
37:BH:54:TYR:C	37:BH:56:VAL:N	2.67	0.52
37:BH:127:THR:OG1	37:BH:149:ALA:HA	2.09	0.52
37:BH:147:ALA:O	37:BH:149:ALA:N	2.43	0.52
38:BI:71:LEU:HD21	38:BI:74:GLY:N	2.24	0.52
39:BJ:40:VAL:HA	39:BJ:63:TYR:HD1	1.75	0.52
39:BJ:46:ARG:NH2	51:BV:37:VAL:CG2	2.68	0.52
42:BM:67:GLY:N	42:BM:73:GLN:NE2	2.58	0.52
43:BN:23:ILE:CD1	43:BN:85:LEU:HB3	2.39	0.52
44:BO:57:THR:OG1	44:BO:59:TYR:HB2	2.10	0.52
44:BO:58:PRO:HB2	44:BO:93:GLN:HG3	1.91	0.52
44:BO:82:VAL:CG1	44:BO:108:ILE:HG23	2.40	0.52
44:BO:110:ASP:HB2	51:BV:88:LYS:CD	2.38	0.52
44:BO:119:CYS:O	44:BO:120:ARG:C	2.52	0.52
45:BP:32:PHE:HB3	45:BP:85:ILE:O	2.09	0.52
52:BW:4:SER:HB3	52:BW:42:PRO:HG3	1.91	0.52
52:BW:6:LYS:CD	52:BW:7:LYS:H	2.22	0.52
52:BW:18:LYS:HE2	52:BW:22:LEU:HD13	1.90	0.52
53:BX:13:LEU:CB	53:BX:17:ARG:HH21	2.13	0.52
53:BX:33:ILE:HD11	53:BX:62:LEU:O	2.10	0.52
55:CA:183:MET:HE2	55:CA:183:MET:CA	2.40	0.52
55:CA:313:VAL:N	55:CA:354:ASP:HB3	2.25	0.52
55:CA:322:GLU:CG	55:CA:581:THR:CB	2.72	0.52
55:CA:398:GLU:OE1	55:CA:444:PRO:HB3	2.08	0.52
55:CA:538:LEU:N	55:CA:539:THR:CB	2.73	0.52
1:AA:19:C:N3	1:AA:20:C:C5	2.78	0.51
1:AA:29:U:O2	1:AA:30:G:O6	2.28	0.51
1:AA:52:A:N7	1:AA:117:G:N2	2.58	0.51
1:AA:116:C:H2'	1:AA:117:G:O5'	2.10	0.51
1:AA:182:A:O2'	1:AA:183:C:H5'	2.09	0.51
1:AA:210:C:O2'	1:AA:211:A:H5'	2.10	0.51
1:AA:230:U:H2'	1:AA:231:C:O4'	2.11	0.51
1:AA:281:G:N3	1:AA:281:G:C2'	2.72	0.51
1:AA:295:G:O4'	1:AA:345:A:H2	1.93	0.51
1:AA:452:G:H5''	1:AA:453:C:OP2	2.10	0.51
1:AA:675:A:O2'	1:AA:676:A:H5'	2.10	0.51
1:AA:781:A:N1	1:AA:1776:G:O2'	2.39	0.51
1:AA:815:C:C4	1:AA:1193:G:N1	2.78	0.51
1:AA:858:U:OP1	24:AX:44:ARG:NH2	2.43	0.51
1:AA:875:G:C2	1:AA:876:C:C2	2.98	0.51
1:AA:915:C:H1'	2:AB:100:G:H4'	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:931:G:H21	26:AZ:24:LYS:CB	2.15	0.51
1:AA:945:A:C3'	1:AA:946:G:H5''	2.41	0.51
1:AA:977:G:N7	1:AA:987:G:N1	2.58	0.51
1:AA:1019:U:OP2	1:AA:1036:G:C4'	2.59	0.51
1:AA:1047:G:O2'	1:AA:1048:A:O5'	2.14	0.51
1:AA:1083:U:N3	1:AA:1085:A:H8	2.01	0.51
1:AA:1085:A:O2'	1:AA:1086:A:OP2	2.16	0.51
1:AA:1115:G:N3	1:AA:1115:G:C2'	2.73	0.51
1:AA:1115:G:N2	1:AA:1116:C:C2	2.78	0.51
1:AA:1265:A:H1'	1:AA:1267:U:O4	2.08	0.51
1:AA:1266:G:O4'	20:AT:15:ARG:NH1	2.43	0.51
1:AA:1301:A:O2'	1:AA:1302:A:H8	1.92	0.51
1:AA:1313:U:P	21:AU:63:LYS:CD	2.98	0.51
1:AA:1326:U:H6	1:AA:2010:G:H21	1.51	0.51
1:AA:1388:G:H4'	1:AA:1524:G:O2'	2.10	0.51
1:AA:1534:G:C8	1:AA:1534:G:H3'	2.45	0.51
1:AA:1568:G:OP2	4:AD:61:LEU:HD12	2.09	0.51
1:AA:1681:G:O6	1:AA:1762:A:N6	2.43	0.51
1:AA:1807:G:N3	1:AA:1809:A:H5'	2.24	0.51
1:AA:1819:A:H3'	4:AD:178:PRO:CB	2.29	0.51
1:AA:1864:U:C4'	1:AA:2409:G:H22	2.20	0.51
1:AA:1889:A:N1	1:AA:1890:A:C6	2.77	0.51
1:AA:1954:G:N3	1:AA:2551:C:H4'	2.25	0.51
1:AA:2052:G:C4	5:AE:150:VAL:HB	2.45	0.51
1:AA:2127:G:C4	1:AA:2162:G:C2	2.98	0.51
1:AA:2278:A:H62	24:AX:14:ARG:CB	2.23	0.51
1:AA:2345:G:H21	1:AA:2381:C:C3'	2.23	0.51
1:AA:2377:A:N3	1:AA:2378:A:N7	2.58	0.51
1:AA:2424:C:H5''	1:AA:2425:A:H5'	1.92	0.51
1:AA:2426:A:H3'	1:AA:2427:C:C5'	2.40	0.51
1:AA:2476:A:C8	1:AA:2477:C:C6	2.98	0.51
1:AA:2525:G:O2'	1:AA:2741:A:H2	1.93	0.51
1:AA:2532:G:C5'	1:AA:2657:A:C2	2.89	0.51
1:AA:2564:A:C4	1:AA:2565:A:N7	2.78	0.51
1:AA:2594:C:C2'	1:AA:2595:G:H5'	2.40	0.51
1:AA:2648:C:O2	1:AA:2648:C:H2'	2.09	0.51
1:AA:2656:U:H3	1:AA:2665:A:N6	2.08	0.51
1:AA:2673:G:N2	1:AA:2674:G:C4	2.78	0.51
1:AA:2720:U:C4	1:AA:2873:A:N6	2.73	0.51
1:AA:2756:U:C2	1:AA:2758:A:C6	2.98	0.51
1:AA:2797:U:H6	1:AA:2797:U:H3'	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2812:G:C6	1:AA:2813:A:N6	2.78	0.51
1:AA:2813:A:C2	1:AA:2888:C:C2	2.97	0.51
1:AA:2848:G:P	17:AQ:99:LEU:HD12	2.50	0.51
1:AA:2848:G:H2'	17:AQ:99:LEU:HD21	1.92	0.51
2:AB:11:C:H3'	24:AX:74:ARG:NH1	2.24	0.51
2:AB:52:A:C4'	2:AB:52:A:OP1	2.58	0.51
2:AB:85:G:C4	2:AB:92:G:N2	2.77	0.51
2:AB:117:G:C2	2:AB:118:G:N7	2.78	0.51
3:AC:200:LYS:HG3	3:AC:208:PHE:CE2	2.45	0.51
4:AD:8:PRO:O	4:AD:25:THR:CG2	2.58	0.51
4:AD:60:ARG:HG2	4:AD:62:TYR:OH	2.10	0.51
5:AE:49:LEU:CD1	5:AE:50:GLY:N	2.73	0.51
5:AE:176:ILE:HG22	5:AE:181:LEU:C	2.34	0.51
6:AF:168:ARG:HD3	6:AF:169:ASN:H	1.76	0.51
7:AG:19:LEU:H	7:AG:19:LEU:CD1	2.22	0.51
7:AG:44:GLY:O	7:AG:72:ARG:O	2.28	0.51
7:AG:105:LYS:C	7:AG:109:VAL:HG22	2.33	0.51
7:AG:114:ILE:O	7:AG:117:PHE:HB2	2.09	0.51
10:AJ:64:SER:CB	10:AJ:65:PHE:CB	2.86	0.51
10:AJ:122:ALA:CB	10:AJ:126:MET:SD	2.98	0.51
11:AK:23:LEU:HG	11:AK:61:ARG:O	2.10	0.51
12:AL:15:GLY:O	12:AL:47:ILE:HA	2.10	0.51
13:AM:77:ARG:CZ	13:AM:79:ARG:HG2	2.40	0.51
14:AN:115:MET:O	14:AN:116:GLU:C	2.53	0.51
14:AN:133:ARG:HD2	14:AN:133:ARG:C	2.36	0.51
15:AO:73:VAL:O	15:AO:76:VAL:N	2.43	0.51
16:AP:20:ARG:O	16:AP:21:THR:HG23	2.10	0.51
16:AP:39:ILE:O	16:AP:47:THR:CG2	2.58	0.51
17:AQ:40:THR:O	17:AQ:41:ARG:C	2.53	0.51
18:AR:25:TRP:O	18:AR:28:ARG:HG2	2.10	0.51
18:AR:81:HIS:CB	18:AR:117:GLN:NE2	2.72	0.51
19:AS:10:LYS:C	19:AS:12:TYR:H	2.18	0.51
19:AS:25:LEU:HA	19:AS:28:GLU:CG	2.40	0.51
19:AS:79:VAL:HB	19:AS:81:TYR:CD1	2.45	0.51
21:AU:58:HIS:CE1	21:AU:77:LYS:HE3	2.44	0.51
23:AW:117:LEU:O	23:AW:174:VAL:HG12	2.09	0.51
23:AW:122:ARG:C	23:AW:124:ILE:H	2.18	0.51
23:AW:152:ALA:C	23:AW:155:LEU:HD22	2.34	0.51
26:AZ:4:LEU:HD23	26:AZ:4:LEU:C	2.35	0.51
26:AZ:23:LEU:HD11	26:AZ:53:LEU:CD1	2.40	0.51
28:Ab:20:ARG:C	28:Ab:23:HIS:HB2	2.33	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:51:GLU:CD	29:Ac:52:VAL:N	2.68	0.51
31:Ae:1:MET:N	31:Ae:2:PRO:CD	2.73	0.51
32:Af:11:CYS:N	32:Af:14:CYS:SG	2.83	0.51
33:Ag:291:UNK:N	33:Ag:342:UNK:CA	2.73	0.51
34:BA:80:G:C2	34:BA:81:G:H1'	2.44	0.51
34:BA:127:G:N2	34:BA:128:G:H1'	2.24	0.51
34:BA:186(C):G:C6	34:BA:186(D):C:C4	2.98	0.51
34:BA:335:C:H1'	34:BA:1434:A:H1'	1.91	0.51
34:BA:491:G:O2'	34:BA:492:G:H5'	2.09	0.51
34:BA:497:U:O2	34:BA:498:A:C8	2.64	0.51
34:BA:513:C:C4	34:BA:514:C:C5	2.98	0.51
34:BA:583:A:H2'	34:BA:584:G:O4'	2.10	0.51
34:BA:627:G:O2'	34:BA:628:G:C5'	2.57	0.51
34:BA:686:U:H2'	34:BA:687:A:C8	2.45	0.51
34:BA:730:G:H2'	34:BA:731:G:C4'	2.41	0.51
34:BA:809:G:H2'	34:BA:810:C:C5'	2.40	0.51
34:BA:817:C:O2	34:BA:817:C:H2'	2.09	0.51
34:BA:821:G:H2'	34:BA:822:C:C6	2.42	0.51
34:BA:836:G:C6	34:BA:851:G:C6	2.99	0.51
34:BA:946:A:H2'	34:BA:947:G:H8	1.64	0.51
34:BA:948:C:H2'	34:BA:949:A:C8	2.42	0.51
34:BA:961:U:C2'	34:BA:962:C:H5'	2.40	0.51
34:BA:1123:A:O4'	34:BA:1123:A:OP2	2.27	0.51
34:BA:1246:C:H2'	34:BA:1247:U:H6	1.75	0.51
34:BA:1312:G:O6	34:BA:1326:C:C5	2.59	0.51
34:BA:1323:G:C4	34:BA:1324:A:N7	2.78	0.51
34:BA:1507:A:C2	34:BA:1530:G:H1'	2.46	0.51
35:BF:9:GLU:OE1	35:BF:12:GLU:HG2	2.10	0.51
35:BF:20:GLU:N	35:BF:39:ILE:HD11	2.25	0.51
35:BF:80:ILE:HD11	35:BF:212:GLN:HG2	1.92	0.51
35:BF:123:ALA:O	35:BF:124:SER:O	2.28	0.51
35:BF:179:LYS:O	35:BF:180:LEU:C	2.53	0.51
37:BH:11:LEU:HA	37:BH:14:ARG:CB	2.32	0.51
37:BH:127:THR:O	37:BH:146:ILE:CG2	2.58	0.51
37:BH:200:GLU:HG3	37:BH:201:GLN:HE21	1.70	0.51
38:BI:84:PHE:HB3	38:BI:87:SER:O	2.10	0.51
40:BK:76:ARG:NH1	40:BK:89:MET:CG	2.73	0.51
45:BP:84:LEU:CD2	45:BP:85:ILE:N	2.74	0.51
45:BP:85:ILE:CD1	45:BP:98:TYR:HB3	2.37	0.51
46:BQ:52:GLU:HG2	46:BQ:55:ARG:CZ	2.40	0.51
48:BS:49:ASP:O	48:BS:50:HIS:C	2.53	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:77:ARG:NH1	48:BS:81:LEU:H	2.08	0.51
50:BU:27:PHE:CD2	50:BU:27:PHE:C	2.87	0.51
50:BU:66:SER:HB3	50:BU:69:LYS:HB3	1.91	0.51
52:BW:27:GLU:OE2	52:BW:29:ARG:HA	2.10	0.51
52:BW:39:THR:C	52:BW:40:ILE:O	2.53	0.51
55:CA:40:GLU:N	55:CA:41:ARG:CB	2.73	0.51
55:CA:106:MET:CB	55:CA:108:GLN:HG2	2.39	0.51
55:CA:125:VAL:C	55:CA:163:VAL:H	2.15	0.51
55:CA:235:GLN:O	55:CA:248:ASN:N	2.43	0.51
1:AA:37:C:H2'	1:AA:38:A:H8	1.76	0.51
1:AA:61:G:H5'	25:AY:45:ILE:CG1	2.39	0.51
1:AA:208:C:H2'	1:AA:209:C:C6	2.46	0.51
1:AA:231:C:C4	1:AA:232:G:C2	2.98	0.51
1:AA:233:A:H2'	1:AA:234:C:H5'	1.92	0.51
1:AA:234:C:H2'	1:AA:235:U:O5'	2.10	0.51
1:AA:251:A:C2'	1:AA:252:G:O5'	2.58	0.51
1:AA:302:C:H2'	1:AA:303:U:C6	2.45	0.51
1:AA:388:G:OP2	27:Aa:23:GLU:CG	2.58	0.51
1:AA:415:A:O4'	1:AA:1869:G:H5''	2.10	0.51
1:AA:428:A:N3	1:AA:428:A:H2'	2.25	0.51
1:AA:447:A:O2'	1:AA:449:A:N6	2.43	0.51
1:AA:481:G:H2'	1:AA:507:A:H61	1.75	0.51
1:AA:495:G:O4'	20:AT:57:ASN:CG	2.53	0.51
1:AA:598:G:N2	1:AA:599:G:H1'	2.25	0.51
1:AA:678:C:C2	1:AA:679:C:C5	2.99	0.51
1:AA:762:U:H1'	1:AA:763:G:C5	2.45	0.51
1:AA:795:C:H2'	1:AA:796:C:C6	2.45	0.51
1:AA:809:G:C5	1:AA:810:U:C5	2.98	0.51
1:AA:832:G:OP1	13:AM:36:LYS:HE2	2.10	0.51
1:AA:860:U:H5	1:AA:2267:A:O3'	1.92	0.51
1:AA:885:C:OP1	1:AA:885:C:H4'	2.09	0.51
1:AA:893:C:N1	1:AA:894:C:C5	2.78	0.51
1:AA:910:A:O2'	1:AA:911:A:H5'	2.09	0.51
1:AA:1036:G:N1	1:AA:1120:G:C5	2.74	0.51
1:AA:1147:C:H2'	1:AA:1148:A:H5'	1.92	0.51
1:AA:1212:G:H3'	1:AA:1212:G:C8	2.45	0.51
1:AA:1221:C:C4	1:AA:1229:G:N1	2.78	0.51
1:AA:1319:G:C6	1:AA:1334:G:C6	2.98	0.51
1:AA:1341:U:O2	1:AA:1341:U:C2'	2.46	0.51
1:AA:1403:C:H4'	1:AA:1471:A:C5'	2.37	0.51
1:AA:1515:C:C2'	1:AA:1516:U:OP1	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1539:G:C8	1:AA:1540:G:C8	2.99	0.51
1:AA:1708:C:C2'	1:AA:1709:U:C5'	2.79	0.51
1:AA:1709:U:C1'	1:AA:2860:A:H1'	2.39	0.51
1:AA:1790:C:H4'	4:AD:213:ARG:CZ	2.40	0.51
1:AA:1924:C:C6	1:AA:1925:C:C5	2.90	0.51
1:AA:1997:G:H5'	5:AE:123:ALA:CB	2.41	0.51
1:AA:2046:G:C4	1:AA:2047:U:C5	2.98	0.51
1:AA:2106:G:C6	1:AA:2184:G:C6	2.99	0.51
1:AA:2114:A:H61	1:AA:2170:A:H61	1.59	0.51
1:AA:2168:G:H1'	1:AA:2170:A:N7	2.25	0.51
1:AA:2225:A:C4'	1:AA:2226:C:C6	2.93	0.51
1:AA:2321:G:N3	1:AA:2321:G:C2'	2.73	0.51
1:AA:2356:C:C4	1:AA:2357:U:C4	2.99	0.51
1:AA:2432:A:C8	1:AA:2433:A:C5	2.98	0.51
1:AA:2481:G:HO2'	1:AA:2482:G:H8	1.58	0.51
1:AA:2507:C:C4'	1:AA:2573:C:N4	2.72	0.51
1:AA:2544:G:C6	1:AA:2545:G:C5	2.98	0.51
1:AA:2562:U:O2	1:AA:2562:U:H2'	2.10	0.51
1:AA:2576:G:C5'	1:AA:2577:A:OP1	2.54	0.51
1:AA:2690:C:HO2'	1:AA:2691:C:P	2.33	0.51
1:AA:2730:C:H2'	1:AA:2731:G:H8	1.75	0.51
1:AA:2779:U:C6	1:AA:2779:U:H3'	2.46	0.51
1:AA:2799:A:C4'	1:AA:2802:G:N1	2.73	0.51
1:AA:2815:C:N3	1:AA:2816:C:C5	2.78	0.51
1:AA:2884:U:C2'	1:AA:2885:C:H5'	2.40	0.51
2:AB:110:G:C2'	2:AB:111:U:O5'	2.58	0.51
3:AC:39:GLU:HB3	3:AC:178:ALA:HB2	1.90	0.51
3:AC:46:LYS:HD3	3:AC:46:LYS:O	2.10	0.51
3:AC:213:TYR:HB3	3:AC:223:ARG:CA	2.23	0.51
4:AD:36:PRO:O	4:AD:37:LEU:HD22	2.11	0.51
4:AD:72:LYS:O	4:AD:73:VAL:C	2.53	0.51
4:AD:77:ALA:HB1	4:AD:95:LEU:CD1	2.40	0.51
4:AD:144:ALA:O	4:AD:145:VAL:O	2.27	0.51
4:AD:157:ARG:CB	4:AD:160:GLY:O	2.56	0.51
5:AE:37:ARG:O	5:AE:38:THR:CB	2.47	0.51
5:AE:47:VAL:HG13	5:AE:78:LEU:C	2.34	0.51
5:AE:113:PHE:C	5:AE:158:GLY:HA2	2.35	0.51
5:AE:146:THR:CB	5:AE:147:PRO:CD	2.78	0.51
5:AE:161:GLY:O	5:AE:163:GLU:OE1	2.29	0.51
5:AE:195:LEU:CD1	5:AE:196:VAL:N	2.52	0.51
6:AF:146:ALA:O	6:AF:148:LEU:HD22	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:158:THR:CG2	6:AF:159:GLY:N	2.69	0.51
6:AF:196:LEU:HD22	6:AF:199:TRP:CD1	2.44	0.51
7:AG:15:VAL:O	7:AG:18:GLU:CB	2.54	0.51
7:AG:87:PRO:C	7:AG:88:ILE:HG13	2.35	0.51
7:AG:125:PHE:CD1	7:AG:131:TYR:C	2.88	0.51
8:AH:94:TYR:O	8:AH:95:ARG:HD2	2.10	0.51
8:AH:118:PRO:CG	8:AH:144:VAL:HG21	2.37	0.51
11:AK:69:GLN:N	11:AK:69:GLN:HE21	2.08	0.51
13:AM:37:GLY:O	13:AM:40:SER:HB3	2.10	0.51
13:AM:97:PRO:HD3	13:AM:102:ARG:NH1	2.24	0.51
13:AM:99:LEU:HD23	13:AM:100:LEU:H	1.74	0.51
13:AM:126:VAL:CA	13:AM:146:VAL:H	2.22	0.51
15:AO:99:LYS:O	28:Ab:44:THR:HG22	2.11	0.51
16:AP:49:VAL:CG2	16:AP:80:LEU:HG	2.40	0.51
16:AP:70:GLY:O	16:AP:72:ALA:N	2.43	0.51
16:AP:95:HIS:HA	16:AP:99:LYS:CD	2.36	0.51
16:AP:97:ARG:HH11	16:AP:97:ARG:CG	2.23	0.51
20:AT:50:VAL:HG11	20:AT:103:ILE:HG13	1.92	0.51
20:AT:89:ALA:O	20:AT:91:GLY:N	2.44	0.51
22:AV:13:VAL:HG23	22:AV:14:LEU:N	2.24	0.51
23:AW:6:LYS:HB2	23:AW:37:VAL:HG13	1.92	0.51
23:AW:78:LYS:CG	23:AW:79:ARG:H	2.13	0.51
24:AX:26:TYR:CE2	24:AX:29:GLN:NE2	2.78	0.51
24:AX:44:ARG:HG3	24:AX:77:ARG:HG3	1.92	0.51
25:AY:58:VAL:O	25:AY:61:GLU:N	2.42	0.51
26:AZ:6:VAL:CG1	26:AZ:55:ARG:O	2.52	0.51
27:Aa:29:PRO:CG	27:Aa:31:ILE:CG2	2.88	0.51
27:Aa:31:ILE:O	27:Aa:32:TYR:CD2	2.63	0.51
27:Aa:53:GLU:CG	27:Aa:54:GLY:N	2.66	0.51
28:Ab:11:THR:O	28:Ab:14:ALA:HB3	2.11	0.51
28:Ab:55:ARG:O	28:Ab:57:VAL:N	2.43	0.51
32:Af:1:MET:H1	32:Af:33:LYS:HB2	1.75	0.51
33:Ag:149:UNK:HA	33:Ag:153:UNK:O	2.10	0.51
34:BA:16:A:H2'	34:BA:16:A:N3	2.26	0.51
34:BA:50:A:O2'	34:BA:360:A:C2	2.63	0.51
34:BA:73:G:C6	34:BA:74:C:C4	2.98	0.51
34:BA:196:A:H1'	34:BA:222:U:H1'	1.92	0.51
34:BA:259:G:N2	34:BA:260:G:N3	2.58	0.51
34:BA:566:G:C4'	34:BA:567:G:OP1	2.57	0.51
34:BA:689:C:H2'	34:BA:690:G:H1'	1.91	0.51
34:BA:817:C:N1	34:BA:819:A:H5'	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:953:G:O2'	34:BA:954:G:H5'	2.09	0.51
34:BA:957:U:H3	34:BA:960:U:C5'	2.23	0.51
34:BA:1032(B):G:H2'	34:BA:1033:G:O4'	2.10	0.51
34:BA:1053:G:N2	34:BA:1058:G:O6	2.43	0.51
34:BA:1128:C:H4'	34:BA:1148:U:C5	2.46	0.51
34:BA:1182:G:C4'	34:BA:1183:A:O5'	2.58	0.51
34:BA:1312:G:C5	34:BA:1326:C:N4	2.75	0.51
34:BA:1411:C:O5'	34:BA:1411:C:H6	1.92	0.51
34:BA:1502:A:N3	34:BA:1502:A:C2'	2.73	0.51
35:BF:45:GLN:O	35:BF:48:MET:HB2	2.11	0.51
35:BF:50:GLU:O	35:BF:51:LEU:C	2.53	0.51
36:BG:64:VAL:O	36:BG:65:ALA:C	2.54	0.51
36:BG:179:ARG:HD2	36:BG:206:GLU:OE1	2.10	0.51
37:BH:62:GLN:O	37:BH:66:ARG:HD2	2.10	0.51
37:BH:148:VAL:HG11	37:BH:153:ARG:HA	1.92	0.51
37:BH:159:ARG:O	37:BH:163:GLU:HB3	2.11	0.51
38:BI:39:GLY:C	38:BI:68:GLU:OE1	2.54	0.51
38:BI:140:ARG:CB	38:BI:140:ARG:CZ	2.88	0.51
40:BK:121:ALA:O	40:BK:122:HIS:C	2.52	0.51
40:BK:152:ALA:O	40:BK:154:TYR:N	2.42	0.51
41:BL:19:VAL:HB	41:BL:21:LYS:CD	2.41	0.51
41:BL:101:PRO:HG2	41:BL:102:ARG:H	1.74	0.51
41:BL:109:ILE:O	41:BL:109:ILE:CG1	2.56	0.51
43:BN:44:VAL:HA	43:BN:66:ARG:HB3	1.92	0.51
43:BN:51:ARG:NH2	43:BN:61:GLU:OE1	2.44	0.51
43:BN:97:GLU:C	43:BN:98:ILE:HD12	2.36	0.51
44:BO:80:VAL:HG22	44:BO:81:ASP:N	2.25	0.51
45:BP:57:LYS:CG	45:BP:67:THR:HG22	2.28	0.51
45:BP:117:ARG:HG3	45:BP:117:ARG:NH1	2.14	0.51
46:BQ:108:ARG:HH12	46:BQ:111:LYS:HB3	1.75	0.51
49:BT:20:VAL:HG13	49:BT:21:VAL:N	2.19	0.51
50:BU:75:ARG:HH12	50:BU:77:VAL:CG2	2.23	0.51
51:BV:26:LEU:HB2	51:BV:42:ARG:NH1	2.26	0.51
51:BV:26:LEU:CD2	51:BV:29:PHE:HB2	2.39	0.51
55:CA:67:ASP:H	55:CA:68:TYR:HB3	1.75	0.51
55:CA:81:PHE:C	55:CA:83:GLY:H	2.19	0.51
55:CA:85:VAL:O	55:CA:88:VAL:HB	2.10	0.51
55:CA:174:LEU:HD13	55:CA:175:ASP:H	1.75	0.51
55:CA:240:ILE:C	55:CA:242:SER:H	2.18	0.51
55:CA:382:VAL:HA	55:CA:383:SER:C	2.35	0.51
1:AA:90:U:OP1	1:AA:90:U:C6	2.63	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:112:U:OP2	1:AA:112:U:H6	1.93	0.51
1:AA:215:G:H1'	1:AA:216:A:C4'	2.40	0.51
1:AA:236:C:H2'	1:AA:237:C:O5'	2.10	0.51
1:AA:398:G:C2	1:AA:399:G:H1'	2.46	0.51
1:AA:569:U:C5'	1:AA:946:G:H1'	2.33	0.51
1:AA:601:C:O4'	6:AF:104:LYS:NZ	2.40	0.51
1:AA:616:A:H2'	1:AA:617:G:N3	2.25	0.51
1:AA:637:A:H4'	1:AA:638:G:C4'	2.41	0.51
1:AA:716:A:C8	1:AA:717:G:O4'	2.63	0.51
1:AA:729:G:H2'	1:AA:730:C:C1'	2.40	0.51
1:AA:852:G:C6	1:AA:853:G:N7	2.78	0.51
1:AA:937:U:H2'	1:AA:938:G:O4'	2.09	0.51
1:AA:1037:G:H22	1:AA:1119:C:H1'	1.74	0.51
1:AA:1064:C:N4	1:AA:1065:U:C2	2.78	0.51
1:AA:1077:A:H3'	1:AA:1078:U:H5'	1.90	0.51
1:AA:1096:A:C5	1:AA:1097:U:H1'	2.46	0.51
1:AA:1131:G:C2	11:AK:74:ARG:HD2	2.46	0.51
1:AA:1131:G:H4'	1:AA:1132:A:OP1	2.10	0.51
1:AA:1151:G:H2'	1:AA:1152:C:C5	2.45	0.51
1:AA:1226:G:C8	1:AA:1226:G:C3'	2.93	0.51
1:AA:1442:G:C2	1:AA:1443:G:C5	2.98	0.51
1:AA:1466:G:O4'	1:AA:1545(A):A:C2	2.64	0.51
1:AA:1527:G:C1'	1:AA:1528:A:N3	2.68	0.51
1:AA:1530:G:C5	1:AA:1531:C:N4	2.79	0.51
1:AA:1541:U:O2	1:AA:1541:U:C2'	2.51	0.51
1:AA:1632:A:O5'	1:AA:1632:A:C8	2.63	0.51
1:AA:1764:G:C2'	1:AA:1765:C:O5'	2.57	0.51
1:AA:1861:G:H5'	3:AC:205:LYS:HD2	1.92	0.51
1:AA:1909:C:H2'	1:AA:1910:G:H8	1.74	0.51
1:AA:1996:C:C5	1:AA:1996:C:OP1	2.64	0.51
1:AA:2009:G:C1'	15:AO:107:ASP:O	2.59	0.51
1:AA:2018:G:C2'	1:AA:2019:A:O4'	2.57	0.51
1:AA:2020:A:H2'	1:AA:2021:C:C5'	2.34	0.51
1:AA:2027:G:C1'	1:AA:2037:G:H22	2.23	0.51
1:AA:2153:G:H8	1:AA:2153:G:O5'	1.94	0.51
1:AA:2246:G:N3	1:AA:2247:A:C5	2.79	0.51
1:AA:2262:U:O4	24:AX:15:ASP:O	2.28	0.51
1:AA:2318:G:C8	1:AA:2318:G:OP2	2.63	0.51
1:AA:2462:U:C4	1:AA:2463:C:C4	2.98	0.51
1:AA:2471:C:H4'	55:CA:529:ARG:NE	2.26	0.51
1:AA:2617:C:H2'	1:AA:2618:G:O5'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2666:C:C6	1:AA:2667:C:H5'	2.45	0.51
1:AA:2674:G:C2'	1:AA:2675:A:H8	2.01	0.51
1:AA:2815:C:O2'	28:Ab:42:PRO:CG	2.57	0.51
1:AA:2820:A:H4'	15:AO:4:LEU:HD22	1.92	0.51
1:AA:2820:A:N3	15:AO:5:LYS:HG3	2.25	0.51
1:AA:2834:G:C5	1:AA:2879:C:C4	2.97	0.51
1:AA:2843:G:C4	1:AA:2844:G:C8	2.98	0.51
1:AA:2845:G:O2'	1:AA:2846:G:O4'	2.23	0.51
1:AA:2884:U:O4	28:Ab:40:LYS:HE2	2.10	0.51
2:AB:66:A:H2	2:AB:108:C:N1	2.09	0.51
2:AB:68:C:H3'	2:AB:69:G:C8	2.37	0.51
2:AB:87:G:N2	2:AB:90:C:C2	2.78	0.51
3:AC:62:VAL:CB	3:AC:195:ALA:CB	2.78	0.51
3:AC:86:ALA:O	3:AC:89:ALA:HB3	2.09	0.51
3:AC:131:LEU:HB2	3:AC:137:LEU:HB2	1.92	0.51
3:AC:188:ASN:O	3:AC:189:ILE:C	2.53	0.51
5:AE:51:PHE:CD1	5:AE:51:PHE:C	2.87	0.51
5:AE:92:THR:N	5:AE:95:ILE:HD13	2.20	0.51
5:AE:104:VAL:CG1	5:AE:105:THR:H	2.23	0.51
5:AE:185:LYS:O	5:AE:185:LYS:CG	2.58	0.51
6:AF:5:ALA:O	6:AF:20:LEU:HD13	2.11	0.51
6:AF:149:ASP:HA	6:AF:172:TRP:HE1	1.76	0.51
6:AF:173:VAL:CG2	6:AF:174:VAL:N	2.73	0.51
6:AF:196:LEU:O	6:AF:199:TRP:HB2	2.11	0.51
7:AG:121:ASN:CG	7:AG:133:LEU:HD21	2.34	0.51
8:AH:32:GLU:O	8:AH:33:LEU:C	2.52	0.51
8:AH:156:ALA:HA	8:AH:171:LEU:HD22	1.92	0.51
10:AJ:76:TYR:CD1	10:AJ:80:LYS:HE2	2.45	0.51
10:AJ:103:GLN:CA	10:AJ:106:GLU:HG3	2.41	0.51
11:AK:39:ARG:CB	11:AK:48:MET:SD	2.98	0.51
11:AK:88:GLU:H	11:AK:88:GLU:CD	2.17	0.51
12:AL:11:ALA:CB	12:AL:97:ARG:HH12	2.24	0.51
12:AL:13:ASN:N	12:AL:94:ARG:HB3	2.25	0.51
12:AL:41:ALA:O	12:AL:56:ASP:CA	2.58	0.51
13:AM:96:THR:OG1	13:AM:112:LEU:HD11	2.11	0.51
15:AO:61:HIS:O	15:AO:64:ARG:N	2.44	0.51
15:AO:99:LYS:HG2	28:Ab:43:HIS:CD2	2.45	0.51
17:AQ:18:ASP:O	17:AQ:19:LEU:CB	2.58	0.51
17:AQ:109:GLU:CD	17:AQ:110:ILE:H	2.17	0.51
18:AR:26:GLY:O	18:AR:27:LEU:HD12	2.10	0.51
18:AR:67:ALA:O	18:AR:71:GLN:CD	2.54	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:79:VAL:HG12	19:AS:81:TYR:CD1	2.46	0.51
21:AU:7:VAL:HB	25:AY:28:MET:SD	2.50	0.51
21:AU:26:TYR:HB3	21:AU:28:PHE:CE2	2.46	0.51
24:AX:74:ARG:O	24:AX:75:LEU:C	2.53	0.51
26:AZ:26:LEU:HG	26:AZ:35:ARG:HH22	1.73	0.51
27:Aa:15:ILE:HG13	27:Aa:36:CYS:SG	2.50	0.51
27:Aa:20:ASN:HB2	27:Aa:30:GLU:CG	2.39	0.51
27:Aa:46:GLN:O	27:Aa:52:THR:HB	2.10	0.51
30:Ad:5:TRP:CE2	30:Ad:7:PRO:HD3	2.45	0.51
32:Af:1:MET:H3	32:Af:33:LYS:CB	2.24	0.51
34:BA:46:G:C2	34:BA:366:C:C2	2.98	0.51
34:BA:62:U:H4'	34:BA:385:C:O2	2.10	0.51
34:BA:320:C:O2'	34:BA:321:A:O4'	2.28	0.51
34:BA:390:C:N3	34:BA:391:G:N7	2.59	0.51
34:BA:494:U:C2'	34:BA:495:A:H5'	2.41	0.51
34:BA:522:C:H5''	45:BP:120:TYR:HH	1.73	0.51
34:BA:652:U:H1'	34:BA:653:A:C2	2.45	0.51
34:BA:692:U:N3	34:BA:695:A:OP2	2.44	0.51
34:BA:706:A:N3	34:BA:707:C:C6	2.78	0.51
34:BA:782:A:N1	34:BA:801:U:C2	2.79	0.51
34:BA:787:A:C2'	34:BA:788:U:H5'	2.35	0.51
34:BA:817:C:C6	34:BA:819:A:H4'	2.44	0.51
34:BA:875:C:O2'	34:BA:876:G:O5'	2.18	0.51
34:BA:920:U:O2'	34:BA:921:U:H5'	2.10	0.51
34:BA:1048:G:O3'	34:BA:1049:U:H3'	2.10	0.51
34:BA:1061:G:H5'	43:BN:59:SER:OG	2.11	0.51
34:BA:1107:C:H2'	34:BA:1108:G:H5'	1.93	0.51
34:BA:1155:G:H21	34:BA:1179:A:H61	1.58	0.51
34:BA:1216:G:OP1	47:BR:3:ARG:NH2	2.43	0.51
34:BA:1232:U:OP1	42:BM:126:SER:HB2	2.10	0.51
34:BA:1342:C:O2'	42:BM:124:GLN:HA	2.11	0.51
34:BA:1400:C:OP1	34:BA:1400:C:C5	2.63	0.51
34:BA:1442:G:N2	34:BA:1446:A:C4	2.79	0.51
36:BG:36:ASP:OD2	36:BG:36:ASP:C	2.54	0.51
36:BG:172:ARG:NH1	36:BG:174:PRO:HD3	2.25	0.51
37:BH:30:LYS:CG	37:BH:35:ARG:HD2	2.39	0.51
37:BH:59:ARG:HB3	37:BH:63:LYS:HZ2	1.74	0.51
37:BH:79:PHE:HE1	37:BH:204:ILE:HG23	1.75	0.51
37:BH:82:ALA:C	37:BH:89:THR:HG23	2.35	0.51
37:BH:123:HIS:CB	37:BH:125:HIS:HE1	2.24	0.51
37:BH:135:LEU:CD1	37:BH:138:TYR:HB2	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:136:MET:HA	38:BI:139:LEU:CD1	2.40	0.51
40:BK:75:VAL:HG13	40:BK:87:VAL:C	2.35	0.51
40:BK:140:ASP:O	40:BK:144:MET:HB2	2.10	0.51
41:BL:49:GLU:OE1	41:BL:49:GLU:O	2.28	0.51
41:BL:63:LEU:HD23	41:BL:63:LEU:C	2.36	0.51
42:BM:20:ARG:O	42:BM:21:PRO:C	2.53	0.51
42:BM:48:GLU:N	42:BM:49:PRO:CD	2.73	0.51
42:BM:51:ARG:CA	42:BM:51:ARG:NH1	2.73	0.51
43:BN:24:VAL:O	43:BN:28:ARG:HG3	2.09	0.51
43:BN:87:THR:O	43:BN:87:THR:HG22	2.09	0.51
45:BP:35:GLY:HA3	45:BP:60:LEU:CB	2.40	0.51
45:BP:89:ARG:NE	45:BP:97:ARG:HG3	2.25	0.51
47:BR:35:ARG:C	47:BR:37:PHE:N	2.67	0.51
48:BS:21:ASP:OD2	48:BS:24:SER:CB	2.59	0.51
51:BV:62:GLU:C	51:BV:66:LEU:HG	2.31	0.51
52:BW:7:LYS:HG3	52:BW:7:LYS:O	2.09	0.51
55:CA:382:VAL:CG2	55:CA:578:VAL:HG21	2.34	0.51
55:CA:419:LEU:CD1	55:CA:441:TYR:HB2	2.40	0.51
55:CA:422:ARG:HH11	55:CA:480:VAL:HG22	0.71	0.51
1:AA:6:A:C4'	11:AK:132:ALA:O	2.55	0.51
1:AA:52:A:C4	1:AA:53:A:C8	2.97	0.51
1:AA:71:A:C2	1:AA:73:A:C6	2.99	0.51
1:AA:205:G:HO2'	1:AA:206:U:P	2.27	0.51
1:AA:221:A:O2'	1:AA:271(B):G:N1	2.43	0.51
1:AA:243:U:OP2	31:Ae:4:MET:HB3	2.10	0.51
1:AA:271:G:C2	1:AA:272:G:C8	2.99	0.51
1:AA:360:G:C2'	1:AA:361:G:H5'	2.40	0.51
1:AA:415:A:N1	1:AA:416:C:O2	2.43	0.51
1:AA:471:A:N7	1:AA:472:A:N7	2.59	0.51
1:AA:481:G:O2'	1:AA:482:A:H8	1.92	0.51
1:AA:534:U:OP1	18:AR:24:TYR:CE2	2.62	0.51
1:AA:653:A:H3'	1:AA:654:A:C4'	2.41	0.51
1:AA:764:A:OP1	4:AD:211:ARG:CA	2.57	0.51
1:AA:792:G:C6	1:AA:2440:C:N1	2.78	0.51
1:AA:975:G:N1	1:AA:976:C:C5	2.79	0.51
1:AA:1189:A:N7	1:AA:1190:G:C8	2.78	0.51
1:AA:1243:G:N1	1:AA:1244:G:C5	2.79	0.51
1:AA:1244:G:C5'	13:AM:9:ASN:HB2	2.41	0.51
1:AA:1358:G:C8	1:AA:1371:G:N1	2.78	0.51
1:AA:1366:A:H5'	27:Aa:1:MET:N	2.26	0.51
1:AA:1366:A:H5''	27:Aa:1:MET:H2	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1493:C:O2	1:AA:1493:C:C2'	2.52	0.51
1:AA:1503:U:H2'	1:AA:1504:C:H6	1.70	0.51
1:AA:1577:C:OP2	1:AA:1577:C:H6	1.94	0.51
1:AA:1650:G:C2'	1:AA:1651:G:O5'	2.58	0.51
1:AA:1672:C:H3'	1:AA:1673:U:C5'	2.36	0.51
1:AA:1782:C:C6	1:AA:1782:C:C3'	2.93	0.51
1:AA:1803:A:C8	1:AA:1804:C:C5	2.98	0.51
1:AA:1814:G:C2'	1:AA:1815:A:C8	2.90	0.51
1:AA:1914:C:H2'	1:AA:1914:C:O2	2.09	0.51
1:AA:1924:C:C5	1:AA:1925:C:C5	2.98	0.51
1:AA:1949:G:O2'	1:AA:1950:G:C5'	2.59	0.51
1:AA:1956:U:C6	1:AA:1956:U:O5'	2.63	0.51
1:AA:2009:G:C2	1:AA:2010:G:C8	2.98	0.51
1:AA:2093:G:H2'	1:AA:2094:G:H5'	1.92	0.51
1:AA:2094:G:N1	1:AA:2196:C:C4	2.78	0.51
1:AA:2097:C:C2'	1:AA:2098:U:C5'	2.86	0.51
1:AA:2124:G:N1	1:AA:2173:A:N6	2.58	0.51
1:AA:2197:U:O2'	1:AA:2198:A:O4'	2.28	0.51
1:AA:2261:C:OP1	24:AX:17:GLN:CB	2.59	0.51
1:AA:2344:U:O2	1:AA:2344:U:C3'	2.58	0.51
1:AA:2496:C:P	14:AN:83:MET:HE1	2.51	0.51
1:AA:2525:G:O2'	1:AA:2741:A:C2	2.63	0.51
1:AA:2544:G:C2'	1:AA:2545:G:H5'	2.40	0.51
1:AA:2544:G:O2'	1:AA:2545:G:H5'	2.10	0.51
1:AA:2602:A:O2'	24:AX:1:MET:HB2	2.10	0.51
1:AA:2674:G:N3	1:AA:2675:A:C8	2.78	0.51
1:AA:2713:A:P	1:AA:2713:A:H8	2.33	0.51
1:AA:2742:C:H4'	32:Af:35:ARG:NH1	2.25	0.51
1:AA:2815:C:O2'	28:Ab:42:PRO:HG3	2.10	0.51
2:AB:32:C:C2'	2:AB:33:G:H8	2.22	0.51
3:AC:52:ARG:HB3	3:AC:52:ARG:CZ	2.40	0.51
3:AC:97:GLU:HG2	3:AC:122:ALA:CB	2.34	0.51
3:AC:138:PRO:HB3	3:AC:145:VAL:CG2	2.41	0.51
4:AD:63:ARG:HG2	4:AD:65:ILE:CG1	2.40	0.51
4:AD:65:ILE:CG2	4:AD:66:ASP:N	2.73	0.51
4:AD:80:ALA:CB	4:AD:96:HIS:ND1	2.73	0.51
5:AE:103:ASP:O	5:AE:199:ARG:O	2.28	0.51
5:AE:173:VAL:CG2	5:AE:183:LEU:O	2.54	0.51
5:AE:174:ASP:OD1	5:AE:175:VAL:N	2.43	0.51
6:AF:34:TRP:CE3	13:AM:8:PRO:HB2	2.46	0.51
6:AF:34:TRP:O	6:AF:37:VAL:CB	2.59	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:74:ARG:HH22	6:AF:76:GLY:N	2.06	0.51
7:AG:19:LEU:O	7:AG:20:ILE:C	2.54	0.51
7:AG:36:LYS:HE2	7:AG:38:VAL:CG1	2.29	0.51
7:AG:36:LYS:HZ3	7:AG:38:VAL:HG13	1.75	0.51
7:AG:55:LYS:CE	7:AG:151:ALA:HB1	2.36	0.51
7:AG:105:LYS:HA	7:AG:109:VAL:CG1	2.40	0.51
8:AH:11:VAL:HG11	8:AH:17:VAL:CB	2.40	0.51
8:AH:149:ARG:HD3	8:AH:153:LYS:HE3	1.91	0.51
8:AH:157:TYR:HD1	8:AH:157:TYR:C	2.18	0.51
8:AH:164:TYR:HD2	8:AH:166:GLY:H	1.56	0.51
11:AK:18:ALA:O	11:AK:19:GLU:C	2.53	0.51
12:AL:22:ILE:HB	12:AL:40:VAL:CG1	2.40	0.51
13:AM:6:LEU:C	13:AM:7:ARG:CG	2.83	0.51
13:AM:46:LYS:HZ1	13:AM:50:ARG:NH2	2.09	0.51
14:AN:64:ILE:HG22	14:AN:105:GLU:HB3	1.92	0.51
15:AO:52:ILE:HD13	15:AO:52:ILE:C	2.35	0.51
17:AQ:29:ARG:CA	17:AQ:51:ARG:HA	2.40	0.51
17:AQ:31:SER:OG	17:AQ:91:ARG:NH1	2.43	0.51
17:AQ:32:TYR:C	17:AQ:33:LYS:HG2	2.35	0.51
17:AQ:103:ARG:O	17:AQ:107:ASP:OD1	2.28	0.51
18:AR:2:PRO:O	18:AR:3:ARG:O	2.28	0.51
18:AR:16:LYS:HD2	18:AR:17:ILE:CD1	2.41	0.51
18:AR:84:LYS:HA	18:AR:84:LYS:CE	2.40	0.51
18:AR:88:ILE:CG1	19:AS:52:VAL:HG22	2.41	0.51
19:AS:15:GLU:CA	19:AS:100:ARG:NH1	2.73	0.51
20:AT:42:ARG:CG	20:AT:43:GLY:N	2.73	0.51
23:AW:116:VAL:CG2	23:AW:145:GLU:CG	2.88	0.51
24:AX:23:VAL:HA	24:AX:38:VAL:CG1	2.37	0.51
26:AZ:5:LYS:NZ	26:AZ:57:GLU:HB2	2.25	0.51
26:AZ:35:ARG:HH12	26:AZ:47:VAL:HG11	1.74	0.51
30:Ad:8:ASN:ND2	30:Ad:10:ARG:H	2.08	0.51
30:Ad:19:ARG:O	30:Ad:20:ALA:C	2.53	0.51
33:Ag:308:UNK:N	55:CA:142:ASP:OD2	2.38	0.51
34:BA:25:C:H4'	34:BA:524:G:N3	2.25	0.51
34:BA:41:G:C2'	34:BA:42:G:H8	2.01	0.51
34:BA:67:C:C4'	34:BA:172:A:C1'	2.89	0.51
34:BA:103:C:H1'	34:BA:151:A:H2	1.70	0.51
34:BA:233:C:C2'	34:BA:234:C:H5'	2.39	0.51
34:BA:247:G:C6	34:BA:248:C:C5	2.99	0.51
34:BA:356:A:H2'	34:BA:357:G:O4'	2.11	0.51
34:BA:358:U:O2	55:CA:217:TYR:OH	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:382:A:H2'	34:BA:383:A:O5'	2.10	0.51
34:BA:393:A:H5'	34:BA:483:C:H4'	1.92	0.51
34:BA:532:A:H5''	36:BG:161:GLU:OE1	2.11	0.51
34:BA:553:A:C2'	34:BA:554:C:O4'	2.59	0.51
34:BA:573:A:OP2	34:BA:574:A:OP2	2.28	0.51
34:BA:629:G:C2	34:BA:630:G:C8	2.99	0.51
34:BA:687:A:N3	34:BA:704:A:C6	2.79	0.51
34:BA:696:A:N6	34:BA:797:C:O2'	2.43	0.51
34:BA:729:A:H2'	34:BA:730:G:O5'	2.10	0.51
34:BA:758:G:H2'	34:BA:759:A:OP2	2.10	0.51
34:BA:808:C:C4	34:BA:809:G:N7	2.79	0.51
34:BA:848:C:C2	34:BA:849:C:C6	2.98	0.51
34:BA:857:C:C2	34:BA:858:G:H1'	2.45	0.51
34:BA:958:A:H2'	34:BA:959:A:C8	2.45	0.51
34:BA:1004:A:H3'	34:BA:1025:U:C2	2.42	0.51
34:BA:1034:G:C2	34:BA:1035:A:C5	2.98	0.51
34:BA:1064:G:O2'	34:BA:1065:U:H1'	2.10	0.51
34:BA:1213:A:C2	34:BA:1215:G:C4	2.99	0.51
34:BA:1305:G:H5'	54:BY:4:GLY:HA3	1.92	0.51
34:BA:1308:U:H2'	34:BA:1309:G:C5'	2.40	0.51
34:BA:1442:G:N3	34:BA:1442:G:C2'	2.73	0.51
34:BA:1539:C:H2'	34:BA:1540:U:O4'	2.09	0.51
35:BF:157:ARG:C	35:BF:158:LEU:CD2	2.81	0.51
35:BF:208:ILE:HG21	35:BF:239:VAL:CG1	2.37	0.51
36:BG:12:LEU:CD1	47:BR:57:ARG:HG3	2.41	0.51
36:BG:78:GLY:O	36:BG:80:GLY:N	2.43	0.51
36:BG:84:ILE:HG13	36:BG:101:LEU:CD1	2.35	0.51
37:BH:25:ARG:NH1	37:BH:30:LYS:HB3	2.25	0.51
37:BH:60:GLU:O	37:BH:63:LYS:HD2	2.10	0.51
37:BH:62:GLN:C	37:BH:66:ARG:HD2	2.36	0.51
37:BH:166:LYS:HD3	37:BH:178:VAL:CG1	2.39	0.51
38:BI:151:LEU:HD11	41:BL:77:GLU:HB2	1.91	0.51
39:BJ:98:LEU:CG	51:BV:28:GLU:HG3	2.41	0.51
40:BK:36:LYS:HA	40:BK:36:LYS:HZ1	1.74	0.51
40:BK:74:GLU:O	40:BK:88:PRO:CA	2.53	0.51
40:BK:113:GLU:OE2	40:BK:119:ARG:CG	2.58	0.51
41:BL:10:LEU:HD11	41:BL:85:ARG:CD	2.26	0.51
42:BM:97:LYS:NZ	42:BM:102:LEU:HB3	2.25	0.51
43:BN:48:THR:CA	43:BN:62:HIS:HB3	2.40	0.51
44:BO:128:ALA:O	44:BO:129:SER:OXT	2.27	0.51
46:BQ:27:LYS:C	46:BQ:29:ARG:H	2.19	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:80:ARG:HH12	46:BQ:81:LEU:HD12	1.68	0.51
48:BS:64:ARG:O	48:BS:67:LEU:HB2	2.09	0.51
49:BT:18:ARG:NH1	49:BT:32:TYR:CE2	2.78	0.51
51:BV:22:VAL:HG22	51:BV:55:ARG:NH1	2.25	0.51
51:BV:59:SER:O	51:BV:60:GLY:C	2.54	0.51
53:BX:73:HIS:HD2	53:BX:74:LYS:NZ	2.08	0.51
55:CA:13:HIS:HB3	55:CA:109:THR:CA	2.40	0.51
55:CA:77:GLY:CA	55:CA:79:ALA:N	2.73	0.51
55:CA:102:PHE:CE2	55:CA:134:GLY:CA	2.93	0.51
55:CA:400:TYR:H	55:CA:470:SER:H	1.59	0.51
1:AA:46:C:C5	1:AA:215:G:H8	2.28	0.51
1:AA:154:G:C2	1:AA:155:C:N3	2.79	0.51
1:AA:247:G:C2	31:Ae:8:LYS:HD2	2.45	0.51
1:AA:263:C:N3	1:AA:264:C:C6	2.79	0.51
1:AA:270(B):A:C5'	1:AA:366:C:O4'	2.57	0.51
1:AA:281:G:N2	1:AA:283:A:C4'	2.74	0.51
1:AA:287:C:C2'	1:AA:288:C:H5	2.15	0.51
1:AA:339:U:H2'	1:AA:340:A:H8	1.67	0.51
1:AA:396:G:OP1	27:Aa:10:VAL:HG13	2.11	0.51
1:AA:411:G:O5'	1:AA:412:A:OP2	2.29	0.51
1:AA:450:G:H3'	1:AA:451:C:H5'	1.93	0.51
1:AA:483:A:C2	1:AA:484:C:O4'	2.64	0.51
1:AA:531:C:H6	1:AA:532:A:C2	2.29	0.51
1:AA:533:G:C5	1:AA:534:U:N3	2.79	0.51
1:AA:558:G:H5''	11:AK:109:LYS:CG	2.41	0.51
1:AA:562:U:O2'	1:AA:563:G:H5'	2.11	0.51
1:AA:617:G:OP2	6:AF:40:GLN:NE2	2.44	0.51
1:AA:624:C:C3'	1:AA:624:C:H6	2.22	0.51
1:AA:675:A:C5	1:AA:804:A:C2	2.98	0.51
1:AA:716:A:C8	1:AA:717:G:C8	2.99	0.51
1:AA:731:C:H2'	1:AA:732:C:O5'	2.09	0.51
1:AA:774:A:H5''	1:AA:778:G:C4'	2.40	0.51
1:AA:814:C:N3	1:AA:815:C:C5	2.78	0.51
1:AA:824:A:C2'	1:AA:825:C:C5	2.91	0.51
1:AA:918:A:N3	1:AA:918:A:H3'	2.26	0.51
1:AA:1037:G:N2	1:AA:1119:C:C2	2.75	0.51
1:AA:1039:G:P	1:AA:1039:G:C3'	2.94	0.51
1:AA:1046:A:C4	9:AI:6:ASN:C	2.60	0.51
1:AA:1080:C:H5	10:AJ:132:ARG:NH2	2.01	0.51
1:AA:1095:A:C2'	1:AA:1096:A:O4'	2.58	0.51
1:AA:1100:C:C2'	1:AA:1101:U:OP1	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:A:C2	1:AA:2490:G:OP1	2.64	0.51
1:AA:1180:C:C2	1:AA:1181:C:C5	2.98	0.51
1:AA:1212:G:N7	1:AA:1235:G:C6	2.78	0.51
1:AA:1223:C:O2'	1:AA:1225:C:H5	1.93	0.51
1:AA:1315:C:O2	1:AA:1392:A:C2	2.62	0.51
1:AA:1324:G:C1'	1:AA:1616:A:H62	2.24	0.51
1:AA:1338:G:O2'	21:AU:16:LYS:NZ	2.39	0.51
1:AA:1405:U:C2	1:AA:1406:U:C4	2.98	0.51
1:AA:1718:G:C2'	1:AA:1725:G:H8	2.05	0.51
1:AA:1769:G:C6	1:AA:1770:G:O6	2.64	0.51
1:AA:1809:A:N1	27:Aa:3:GLU:CD	2.69	0.51
1:AA:1820:U:H2'	4:AD:202:LYS:HZ3	1.75	0.51
1:AA:1931:U:O2'	1:AA:1932:A:C5'	2.57	0.51
1:AA:2000:G:OP2	15:AO:2:ARG:CG	2.59	0.51
1:AA:2007:C:H5'	1:AA:2824:C:H1'	1.93	0.51
1:AA:2046:G:N3	1:AA:2047:U:C5	2.79	0.51
1:AA:2052:G:O2'	1:AA:2053:G:H5'	2.11	0.51
1:AA:2423:U:C2'	1:AA:2424:C:OP2	2.58	0.51
1:AA:2512:C:H3'	1:AA:2512:C:C6	2.45	0.51
1:AA:2519:U:C6	1:AA:2542:A:N6	2.79	0.51
1:AA:2569:G:C4	1:AA:2570:G:C8	2.99	0.51
1:AA:2598:A:OP1	4:AD:234:GLY:CA	2.51	0.51
1:AA:2627:G:C2'	1:AA:2628:C:C5'	2.87	0.51
1:AA:2675:A:H5'	12:AL:29:ASN:HB3	1.91	0.51
1:AA:2696:U:C2	1:AA:2697:G:C8	2.99	0.51
1:AA:2789:C:C2'	1:AA:2791:C:H5'	2.38	0.51
2:AB:14:U:H3'	2:AB:14:U:C6	2.43	0.51
2:AB:96:G:C2	2:AB:97:G:C8	2.99	0.51
3:AC:36:LYS:O	3:AC:37:PHE:CG	2.63	0.51
4:AD:55:GLY:N	4:AD:218:ARG:CD	2.73	0.51
4:AD:105:ILE:O	4:AD:106:ILE:C	2.53	0.51
4:AD:106:ILE:O	4:AD:107:ALA:CB	2.58	0.51
4:AD:183:ARG:HG2	4:AD:268:ARG:HD2	1.92	0.51
5:AE:33:VAL:HG22	5:AE:47:VAL:C	2.35	0.51
5:AE:148:GLY:O	5:AE:149:ARG:HG3	2.11	0.51
6:AF:97:TYR:N	6:AF:97:TYR:CD1	2.78	0.51
6:AF:123:LEU:CD1	6:AF:193:VAL:HG22	2.27	0.51
6:AF:130:ALA:O	6:AF:139:PHE:CA	2.56	0.51
6:AF:160:ASN:O	6:AF:163:VAL:CB	2.49	0.51
6:AF:177:ALA:N	6:AF:178:PRO:CD	2.74	0.51
7:AG:8:LYS:CE	7:AG:100:TRP:HD1	2.23	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:110:ALA:HB2	7:AG:139:LEU:HD11	1.92	0.51
8:AH:107:VAL:HG11	8:AH:152:ARG:HD2	1.92	0.51
10:AJ:12:LEU:HD13	10:AJ:23:VAL:CG2	2.40	0.51
10:AJ:81:ALA:C	10:AJ:99:ILE:HG21	2.35	0.51
10:AJ:98:ARG:CG	10:AJ:99:ILE:N	2.74	0.51
11:AK:3:THR:O	11:AK:4:TYR:CB	2.49	0.51
11:AK:15:LEU:CD2	11:AK:137:LYS:HA	2.29	0.51
11:AK:112:LEU:O	11:AK:114:ARG:N	2.44	0.51
13:AM:126:VAL:HG23	13:AM:127:ALA:N	2.25	0.51
14:AN:25:ASP:C	14:AN:102:VAL:HB	2.34	0.51
14:AN:90:VAL:C	14:AN:91:GLU:OE2	2.54	0.51
15:AO:58:GLY:CA	15:AO:80:PHE:CZ	2.94	0.51
16:AP:33:LYS:CG	16:AP:54:LEU:HD21	2.39	0.51
16:AP:35:ILE:O	16:AP:36:TYR:CB	2.58	0.51
17:AQ:33:LYS:HB3	17:AQ:45:PHE:C	2.36	0.51
18:AR:75:ASN:O	18:AR:79:PHE:HB3	2.11	0.51
18:AR:83:LEU:H	18:AR:83:LEU:CD1	2.16	0.51
19:AS:43:GLU:C	19:AS:44:LYS:CD	2.83	0.51
19:AS:68:LYS:HZ3	19:AS:95:LEU:HD13	1.74	0.51
19:AS:74:LYS:C	19:AS:75:PHE:CG	2.88	0.51
20:AT:34:ASN:ND2	20:AT:34:ASN:N	2.59	0.51
21:AU:60:ARG:HD3	21:AU:62:LYS:HZ1	1.74	0.51
22:AV:46:LYS:HZ2	22:AV:46:LYS:HB3	1.73	0.51
22:AV:97:ARG:CA	22:AV:101:LYS:CG	2.89	0.51
25:AY:27:LEU:O	25:AY:30:LEU:HG	2.11	0.51
25:AY:52:ILE:HA	25:AY:55:LEU:HD13	1.93	0.51
28:Ab:12:SER:OG	28:Ab:13:LYS:N	2.43	0.51
28:Ab:56:LYS:HG3	28:Ab:57:VAL:HG13	1.93	0.51
31:Ae:26:LYS:O	31:Ae:28:GLY:N	2.43	0.51
34:BA:263:A:C2'	34:BA:264:U:C5'	2.75	0.51
34:BA:332:G:O2'	34:BA:333:G:H5'	2.10	0.51
34:BA:333:G:C2	34:BA:334:C:C5	2.98	0.51
34:BA:359:U:C4'	55:CA:216:SER:OG	2.57	0.51
34:BA:381:C:H2'	34:BA:381:C:O2	2.10	0.51
34:BA:498:A:C4'	34:BA:500:G:H5'	2.39	0.51
34:BA:539:A:OP2	45:BP:115:LYS:CE	2.58	0.51
34:BA:597:G:N2	41:BL:94:TYR:CZ	2.79	0.51
34:BA:657:G:H4'	48:BS:28:GLN:NE2	2.25	0.51
34:BA:1039:C:O2'	34:BA:1040:U:H5'	2.11	0.51
34:BA:1049:U:O4	47:BR:3:ARG:HB2	2.11	0.51
34:BA:1128:C:C4	34:BA:1139:G:O6	2.64	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1154:G:C2	34:BA:1155:G:C5	2.98	0.51
34:BA:1196:U:C6	34:BA:1196:U:C3'	2.94	0.51
34:BA:1205:U:H1'	36:BG:195:VAL:HG22	1.93	0.51
34:BA:1251:A:H2	34:BA:1354:C:H1'	1.76	0.51
34:BA:1278:U:H5'	34:BA:1279:A:C5'	2.40	0.51
34:BA:1317:C:C2	34:BA:1318:A:H1'	2.45	0.51
34:BA:1319:A:O5'	52:BW:37:ARG:HB3	2.09	0.51
34:BA:1401:G:H2'	34:BA:1402:C:C5'	2.40	0.51
34:BA:1443:G:N3	34:BA:1443:G:C2'	2.73	0.51
34:BA:1494:G:H1'	34:BA:1495:U:C5	2.45	0.51
35:BF:16:HIS:NE2	35:BF:210:SER:HA	2.25	0.51
35:BF:25:ASN:HB3	35:BF:191:ASP:CA	2.40	0.51
35:BF:28:PHE:CD1	35:BF:32:ILE:HD12	2.46	0.51
35:BF:35:GLU:CD	35:BF:36:ARG:N	2.69	0.51
35:BF:61:LEU:HD21	35:BF:68:ILE:HD11	1.93	0.51
35:BF:69:LEU:CD1	35:BF:70:PHE:N	2.74	0.51
35:BF:72:GLY:CA	35:BF:81:VAL:HG21	2.41	0.51
35:BF:82:ARG:H	35:BF:94:ASN:ND2	2.04	0.51
35:BF:219:VAL:HA	35:BF:222:ILE:HD11	1.91	0.51
36:BG:96:GLY:O	36:BG:97:LYS:C	2.53	0.51
36:BG:157:ILE:CG1	36:BG:164:ARG:HG2	2.40	0.51
36:BG:204:LEU:O	36:BG:205:GLY:C	2.53	0.51
37:BH:173:TRP:H	37:BH:173:TRP:HE3	1.58	0.51
38:BI:76:ILE:CD1	38:BI:142:LEU:HB2	2.27	0.51
38:BI:115:VAL:HG11	38:BI:118:ILE:CD1	2.41	0.51
38:BI:129:ILE:O	38:BI:130:ASN:C	2.54	0.51
38:BI:133:TYR:O	38:BI:136:MET:HB2	2.11	0.51
39:BJ:42:GLU:HB2	39:BJ:61:LEU:CD2	2.41	0.51
40:BK:99:LEU:O	40:BK:99:LEU:HD23	2.10	0.51
41:BL:14:ARG:HD2	41:BL:15:ASN:HD22	1.76	0.51
41:BL:111:ILE:HG13	41:BL:120:THR:HG22	1.92	0.51
45:BP:82:VAL:CG1	45:BP:83:VAL:H	2.22	0.51
48:BS:71:GLN:CG	48:BS:75:PRO:HB3	2.23	0.51
49:BT:14:ASN:HA	49:BT:42:ARG:NH2	2.25	0.51
50:BU:22:LEU:HD11	50:BU:39:SER:OG	2.09	0.51
50:BU:56:VAL:C	50:BU:57:VAL:HG12	2.36	0.51
50:BU:69:LYS:CB	50:BU:69:LYS:HZ2	2.23	0.51
51:BV:36:ASN:OD1	51:BV:39:VAL:HB	2.11	0.51
52:BW:40:ILE:O	52:BW:68:GLY:CA	2.59	0.51
55:CA:84:GLU:C	55:CA:86:GLU:H	2.18	0.51
55:CA:403:VAL:HG21	55:CA:466:TYR:CD1	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:409:GLU:OE2	55:CA:435:GLY:C	2.45	0.51
55:CA:488:LEU:HG	55:CA:526:ILE:N	2.22	0.51
55:CA:488:LEU:CD1	55:CA:526:ILE:N	2.73	0.51
55:CA:495:LYS:CA	55:CA:515:GLY:O	2.58	0.51
1:AA:49:A:C5	1:AA:177:G:N1	2.79	0.51
1:AA:221:A:C2	1:AA:233:A:C4	2.98	0.51
1:AA:271(B):G:OP1	1:AA:271(C):U:O4'	2.28	0.51
1:AA:313:C:C2	1:AA:314:A:C8	2.99	0.51
1:AA:534:U:HO2'	18:AR:49:HIS:CE1	2.25	0.51
1:AA:630:G:H4'	31:Ae:46:ARG:HH22	1.75	0.51
1:AA:637:A:H2	1:AA:651:G:C4'	2.23	0.51
1:AA:815:C:C2'	1:AA:816:C:C5'	2.88	0.51
1:AA:817:C:H3'	1:AA:818:G:H8	1.76	0.51
1:AA:916:G:O2'	2:AB:99:A:H1'	2.10	0.51
1:AA:1021:A:C6	1:AA:1023:U:C6	2.99	0.51
1:AA:1099:G:C2	1:AA:1100:C:C6	2.99	0.51
1:AA:1151:G:C5'	18:AR:81:HIS:NE2	2.63	0.51
1:AA:1269:A:N6	1:AA:2011:U:H3	2.06	0.51
1:AA:1332:G:H5''	1:AA:1333:C:OP2	2.11	0.51
1:AA:1508:A:C5'	1:AA:1510:A:C5	2.90	0.51
1:AA:1667:G:C2	1:AA:1991:U:C5	2.99	0.51
1:AA:1718:G:O6	1:AA:1735:C:N4	2.43	0.51
1:AA:1749:A:H2'	1:AA:1750:G:O4'	2.11	0.51
1:AA:1813:G:H2'	1:AA:1813:G:N3	2.24	0.51
1:AA:1834:U:H1'	1:AA:1969:A:N3	2.25	0.51
1:AA:1854:A:H1'	1:AA:2087:G:N2	2.25	0.51
1:AA:1890:A:C2	1:AA:1891:G:H1'	2.45	0.51
1:AA:1890:A:N3	1:AA:1891:G:H1'	2.26	0.51
1:AA:1899:G:H3'	1:AA:1899:G:H8	1.75	0.51
1:AA:2033:A:O2'	1:AA:2034:U:P	2.68	0.51
1:AA:2096:U:H2'	1:AA:2097:C:C6	2.44	0.51
1:AA:2243:U:C2	1:AA:2244:U:C6	2.98	0.51
1:AA:2260:C:H2'	1:AA:2261:C:C6	2.46	0.51
1:AA:2285:C:H4'	1:AA:2288:A:N1	2.25	0.51
1:AA:2385:C:C2'	1:AA:2386:C:O5'	2.58	0.51
1:AA:2415:G:C6	1:AA:2416:C:C4	2.99	0.51
1:AA:2484:G:C1'	14:AN:124:LYS:NZ	2.73	0.51
1:AA:2655:G:N3	1:AA:2655:G:C2'	2.73	0.51
1:AA:2761:G:C2'	1:AA:2762:G:H5'	2.41	0.51
1:AA:2792:G:C2'	1:AA:2805:G:N2	2.73	0.51
1:AA:2848:G:N2	1:AA:2849:U:N3	2.55	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2848:G:H8	17:AQ:99:LEU:CD1	2.16	0.51
2:AB:6:C:H5'	2:AB:27:C:C2'	2.40	0.51
2:AB:112:G:N2	2:AB:113:C:C2	2.78	0.51
3:AC:10:LEU:CD1	3:AC:32:LEU:HD23	2.40	0.51
4:AD:117:VAL:CG1	4:AD:128:GLY:C	2.79	0.51
5:AE:52:LEU:CA	5:AE:74:PRO:HA	2.29	0.51
6:AF:56:GLU:O	6:AF:60:SER:N	2.43	0.51
6:AF:155:LEU:HD22	6:AF:157:VAL:CG1	2.40	0.51
6:AF:185:ASP:HA	6:AF:188:ARG:CG	2.41	0.51
7:AG:2:PRO:C	7:AG:5:VAL:HB	2.34	0.51
7:AG:100:TRP:C	7:AG:102:PHE:N	2.63	0.51
7:AG:135:LEU:HD11	7:AG:137:GLU:O	2.11	0.51
8:AH:65:HIS:O	8:AH:66:GLY:C	2.53	0.51
8:AH:120:GLY:C	8:AH:135:GLY:HA2	2.35	0.51
9:AI:141:VAL:O	33:Ag:134:UNK:CA	2.56	0.51
10:AJ:27:LEU:CD2	10:AJ:57:ILE:HB	2.40	0.51
10:AJ:79:ARG:NH1	10:AJ:84:LEU:CD2	2.49	0.51
11:AK:67:LEU:O	11:AK:68:GLU:HB2	2.10	0.51
13:AM:29:LYS:N	13:AM:29:LYS:CD	2.71	0.51
13:AM:76:LYS:HE2	13:AM:81:GLN:NE2	2.25	0.51
14:AN:25:ASP:HB3	14:AN:102:VAL:CG1	2.35	0.51
14:AN:37:LEU:N	14:AN:100:GLY:HA2	2.25	0.51
14:AN:130:LYS:HE3	14:AN:131:ILE:C	2.35	0.51
15:AO:33:ARG:NH2	28:Ab:56:LYS:HB2	2.25	0.51
15:AO:65:LEU:O	15:AO:66:VAL:C	2.46	0.51
16:AP:6:ALA:CA	16:AP:9:ARG:HH12	2.23	0.51
17:AQ:19:LEU:O	17:AQ:21:GLU:HG2	2.10	0.51
18:AR:47:TYR:CE2	19:AS:77:ALA:HA	2.45	0.51
18:AR:65:ILE:O	18:AR:68:ALA:N	2.44	0.51
19:AS:7:THR:C	19:AS:9:GLY:N	2.69	0.51
20:AT:7:ALA:H	20:AT:103:ILE:HD13	1.75	0.51
21:AU:73:ARG:NH1	21:AU:74:PRO:O	2.44	0.51
23:AW:56:VAL:HG22	23:AW:133:ILE:CD1	2.41	0.51
23:AW:111:VAL:HG22	23:AW:117:LEU:HA	1.93	0.51
24:AX:44:ARG:HG2	24:AX:77:ARG:HG3	1.91	0.51
25:AY:2:ARG:O	25:AY:6:GLU:OE2	2.29	0.51
28:Ab:10:LYS:HD2	28:Ab:15:ARG:NH2	2.24	0.51
30:Ad:32:LYS:CA	30:Ad:35:ARG:HD3	2.41	0.51
31:Ae:44:LYS:NZ	31:Ae:44:LYS:HA	2.26	0.51
34:BA:159:G:C2	34:BA:161:A:OP2	2.63	0.51
34:BA:309:G:H2'	34:BA:310:G:H8	1.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:358:U:O4'	55:CA:217:TYR:CE1	2.61	0.51
34:BA:363:A:N7	45:BP:31:PRO:HD2	2.25	0.51
34:BA:413:G:N2	34:BA:428:G:O2'	2.41	0.51
34:BA:486:U:H2'	34:BA:486:U:O2	2.10	0.51
34:BA:599:C:N4	34:BA:640:A:N6	2.59	0.51
34:BA:652:U:C2	34:BA:752:G:N2	2.79	0.51
34:BA:717:C:O2'	34:BA:718:G:P	2.68	0.51
34:BA:736:C:C5'	51:BV:72:ARG:HH22	2.02	0.51
34:BA:834:C:C4	34:BA:853:G:N1	2.79	0.51
34:BA:899:C:N4	34:BA:900:A:C6	2.79	0.51
34:BA:1102:A:C6	34:BA:1103:C:C4	2.99	0.51
34:BA:1114:C:H2'	34:BA:1114:C:O2	2.08	0.51
34:BA:1303:C:N4	34:BA:1304:G:C2	2.79	0.51
34:BA:1336:C:O2'	34:BA:1337:G:C5	2.56	0.51
34:BA:1425:U:C2	34:BA:1426:C:C5	2.98	0.51
34:BA:1442:G:N3	34:BA:1442:G:C3'	2.73	0.51
35:BF:91:PRO:CG	35:BF:155:LEU:H	2.23	0.51
35:BF:136:VAL:CA	35:BF:139:LYS:NZ	2.73	0.51
36:BG:43:LEU:CD2	36:BG:55:VAL:HG21	2.40	0.51
36:BG:174:PRO:HB2	36:BG:177:THR:HG22	1.92	0.51
37:BH:30:LYS:CA	37:BH:34:GLU:HB3	2.39	0.51
37:BH:63:LYS:CA	37:BH:66:ARG:HD2	2.37	0.51
37:BH:90:GLY:O	37:BH:94:LEU:HG	2.11	0.51
38:BI:12:LEU:C	38:BI:13:ILE:HD12	2.35	0.51
39:BJ:30:LEU:C	39:BJ:35:ALA:HB3	2.35	0.51
39:BJ:71:ARG:O	39:BJ:72:VAL:C	2.53	0.51
39:BJ:96:PRO:HD2	51:BV:32:ARG:HE	1.76	0.51
40:BK:71:PRO:HD3	40:BK:100:ALA:HB2	1.92	0.51
41:BL:6:ILE:CG1	41:BL:85:ARG:CZ	2.89	0.51
42:BM:32:ASP:OD1	42:BM:35:GLU:HB2	2.10	0.51
44:BO:33:THR:HA	44:BO:38:ASN:O	2.10	0.51
44:BO:41:THR:HB	44:BO:71:LYS:HD3	1.92	0.51
44:BO:45:GLY:CA	44:BO:55:LYS:HB3	2.41	0.51
45:BP:46:LYS:CE	45:BP:47:LYS:HZ1	2.24	0.51
48:BS:57:LEU:O	48:BS:58:MET:C	2.52	0.51
50:BU:101:ARG:HD2	50:BU:101:ARG:N	2.25	0.51
52:BW:5:LEU:CG	52:BW:6:LYS:N	2.73	0.51
53:BX:38:LYS:O	53:BX:39:LYS:C	2.53	0.51
55:CA:310:PHE:C	55:CA:356:PHE:O	2.54	0.51
1:AA:2:G:N1	1:AA:2902:C:C6	2.78	0.51
1:AA:47:C:N3	1:AA:179:G:C6	2.78	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:188:G:H2'	1:AA:189:G:O4'	2.11	0.51
1:AA:662:G:C5'	13:AM:17:LYS:H	2.22	0.51
1:AA:1050:A:N6	1:AA:2751:G:C4	2.79	0.51
1:AA:1079:C:O2	10:AJ:133:SER:N	2.44	0.51
1:AA:1168:G:C6	1:AA:1169:G:C6	2.98	0.51
1:AA:1236:G:O2'	1:AA:1237:A:O5'	2.28	0.51
1:AA:1238:G:N2	1:AA:1239:G:H1'	2.25	0.51
1:AA:1263:U:H5''	28:Ab:10:LYS:HZ2	1.73	0.51
1:AA:1289:C:H4'	1:AA:1330:C:C4'	2.41	0.51
1:AA:1303:G:O2'	1:AA:1641:A:N1	2.43	0.51
1:AA:1403:C:H5''	1:AA:1471:A:O4'	2.10	0.51
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.46	0.51
1:AA:1467:C:C4	1:AA:1468:C:N4	2.79	0.51
1:AA:1513:C:H2'	1:AA:1514:U:C5	2.46	0.51
1:AA:1543:A:H3'	1:AA:1544:C:C5'	2.41	0.51
1:AA:1727:U:HO2'	1:AA:1728:G:P	2.34	0.51
1:AA:1804:C:C2	1:AA:1805:U:C5	2.99	0.51
1:AA:1819:A:N7	4:AD:179:SER:HB3	2.25	0.51
1:AA:1906:G:O4'	1:AA:1929:G:C8	2.63	0.51
1:AA:2013:A:C2'	1:AA:2014:A:O5'	2.59	0.51
1:AA:2128:C:N4	1:AA:2129:C:N4	2.58	0.51
1:AA:2298:A:C3'	1:AA:2299:G:H8	2.24	0.51
1:AA:2361:A:OP2	31:Ae:47:LYS:NZ	2.34	0.51
1:AA:2376:A:C2	1:AA:2377:A:H1'	2.44	0.51
1:AA:2639:A:C5	1:AA:2778:A:C6	2.98	0.51
1:AA:2651:C:C3'	1:AA:2652:C:H5''	2.40	0.51
1:AA:2716:U:O5'	1:AA:2716:U:H6	1.92	0.51
1:AA:2793:G:C4	1:AA:2794:C:C6	2.99	0.51
1:AA:2833:G:O4'	1:AA:2833:G:OP1	2.28	0.51
2:AB:100:G:C2'	2:AB:101:A:C8	2.88	0.51
3:AC:192:PHE:CE1	3:AC:196:LEU:HD13	2.45	0.51
4:AD:72:LYS:CD	4:AD:75:ILE:HD12	2.38	0.51
4:AD:90:ALA:C	4:AD:91:ARG:HH11	2.17	0.51
4:AD:111:LEU:HD12	4:AD:115:GLN:OE1	2.11	0.51
4:AD:136:ILE:CG2	4:AD:165:ILE:HG21	2.41	0.51
4:AD:246:PRO:O	4:AD:247:ALA:O	2.28	0.51
4:AD:250:TRP:CE3	4:AD:250:TRP:CA	2.92	0.51
5:AE:4:ILE:HG12	5:AE:30:PRO:HB3	1.91	0.51
5:AE:31:CYS:O	5:AE:33:VAL:N	2.44	0.51
5:AE:47:VAL:CG1	5:AE:79:ARG:HB2	2.41	0.51
5:AE:201:THR:O	5:AE:202:LYS:HB3	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:8:GLN:HB3	6:AF:18:ARG:HB2	1.93	0.51
6:AF:119:ARG:CZ	6:AF:120:GLU:OE1	2.59	0.51
7:AG:8:LYS:HZ1	7:AG:103:LEU:HG	1.75	0.51
7:AG:56:ALA:HA	7:AG:59:GLU:CD	2.33	0.51
7:AG:125:PHE:HD1	7:AG:132:ASN:N	2.09	0.51
8:AH:8:PRO:O	8:AH:9:ILE:HG13	2.11	0.51
8:AH:103:LEU:O	8:AH:104:GLU:C	2.53	0.51
9:AI:30:GLN:C	9:AI:32:LEU:H	2.18	0.51
11:AK:8:GLN:HA	11:AK:8:GLN:OE1	2.10	0.51
11:AK:99:LEU:O	11:AK:100:GLU:C	2.53	0.51
11:AK:106:MET:O	11:AK:108:PRO:HD3	2.10	0.51
12:AL:15:GLY:HA2	12:AL:47:ILE:CG1	2.41	0.51
12:AL:64:ARG:HE	12:AL:67:LYS:C	2.19	0.51
12:AL:106:LEU:CB	17:AQ:39:ARG:HH22	2.08	0.51
12:AL:117:LEU:HD23	12:AL:118:ALA:CA	2.40	0.51
13:AM:131:SER:O	13:AM:135:LEU:HD13	2.11	0.51
14:AN:12:GLN:NE2	14:AN:12:GLN:O	2.43	0.51
14:AN:34:LEU:CD1	14:AN:67:ARG:NH2	2.72	0.51
14:AN:118:LEU:O	14:AN:119:ARG:C	2.53	0.51
15:AO:107:ASP:OD1	15:AO:108:GLY:N	2.44	0.51
16:AP:26:LEU:N	16:AP:88:ASP:HB2	2.25	0.51
16:AP:37:ALA:H	16:AP:51:ALA:HB3	1.76	0.51
17:AQ:5:ALA:O	17:AQ:8:LYS:HB2	2.11	0.51
17:AQ:17:THR:CB	17:AQ:20:PRO:CD	2.85	0.51
17:AQ:26:ASP:OD1	17:AQ:26:ASP:C	2.54	0.51
17:AQ:28:VAL:HG11	17:AQ:90:GLN:HB2	1.92	0.51
17:AQ:34:VAL:O	17:AQ:44:ASP:O	2.29	0.51
17:AQ:53:ARG:O	17:AQ:100:TYR:CD1	2.64	0.51
18:AR:80:ILE:O	18:AR:81:HIS:C	2.52	0.51
18:AR:108:GLU:O	18:AR:110:VAL:N	2.43	0.51
21:AU:24:GLY:O	21:AU:83:VAL:CG2	2.58	0.51
21:AU:32:PRO:O	21:AU:33:LYS:HB2	2.11	0.51
21:AU:50:LYS:O	21:AU:52:VAL:HG23	2.11	0.51
22:AV:75:ILE:N	22:AV:100:ALA:CB	2.74	0.51
24:AX:31:VAL:HG13	24:AX:67:VAL:CG2	2.40	0.51
24:AX:50:ASN:C	24:AX:62:LEU:HB3	2.36	0.51
24:AX:76:GLY:CA	24:AX:78:TYR:HE1	2.23	0.51
25:AY:1:MET:O	25:AY:4:GLN:N	2.43	0.51
28:Ab:31:VAL:HG23	28:Ab:32:PRO:N	2.25	0.51
28:Ab:51:TYR:CE2	28:Ab:55:ARG:HD3	2.46	0.51
33:Ag:335:UNK:C	33:Ag:337:UNK:N	2.73	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:114:U:H2'	34:BA:115:G:H8	1.68	0.51
34:BA:267:C:H2'	34:BA:268:C:C6	2.46	0.51
34:BA:404:U:P	37:BH:118:ARG:NH1	2.84	0.51
34:BA:411:A:C5	34:BA:429:U:C5	2.98	0.51
34:BA:432:A:H3'	34:BA:432:A:C8	2.44	0.51
34:BA:579:G:C4	34:BA:580:U:C6	2.98	0.51
34:BA:754:C:H1'	48:BS:69:TYR:CB	2.41	0.51
34:BA:775:G:C4	34:BA:776:G:N7	2.78	0.51
34:BA:781:A:O4'	34:BA:1523:G:H1'	2.11	0.51
34:BA:828:A:H4'	34:BA:828:A:OP1	2.10	0.51
34:BA:957:U:H2'	34:BA:959:A:OP2	2.11	0.51
34:BA:1068:G:O2'	34:BA:1069:C:C5'	2.55	0.51
34:BA:1167:A:H3'	34:BA:1169:A:C8	2.46	0.51
34:BA:1169:A:H8	34:BA:1169:A:OP2	1.93	0.51
34:BA:1248:A:C2	34:BA:1249:C:N3	2.78	0.51
34:BA:1251:A:H2'	34:BA:1252:A:C5	2.45	0.51
34:BA:1255:G:H1'	34:BA:1259:C:H1'	1.92	0.51
34:BA:1309:G:H21	34:BA:1328:C:C2'	2.22	0.51
34:BA:1318:A:H2'	52:BW:37:ARG:HB2	0.80	0.51
34:BA:1320:C:H1'	52:BW:74:PHE:N	2.14	0.51
34:BA:1453:G:H2'	34:BA:1454:G:C5'	2.39	0.51
34:BA:1465:C:O2'	34:BA:1466:C:H5'	2.09	0.51
35:BF:19:HIS:C	35:BF:20:GLU:HG2	2.36	0.51
35:BF:73:THR:HG22	35:BF:94:ASN:C	2.35	0.51
35:BF:92:TYR:O	35:BF:152:PHE:CB	2.59	0.51
35:BF:103:THR:O	35:BF:104:ASN:CB	2.57	0.51
36:BG:12:LEU:HD21	47:BR:57:ARG:HG2	1.91	0.51
36:BG:39:ILE:HG21	36:BG:57:ILE:CD1	2.40	0.51
36:BG:84:ILE:HD11	36:BG:88:ARG:HH21	1.76	0.51
36:BG:186:PHE:HB2	36:BG:199:LYS:HG2	1.92	0.51
37:BH:58:LEU:C	37:BH:58:LEU:CD1	2.82	0.51
37:BH:87:GLY:O	37:BH:88:VAL:C	2.51	0.51
38:BI:20:GLN:NE2	38:BI:21:ALA:N	2.59	0.51
38:BI:23:GLY:HA3	38:BI:25:ARG:HH12	1.71	0.51
38:BI:65:ASN:O	38:BI:65:ASN:CG	2.53	0.51
39:BJ:6:VAL:O	39:BJ:6:VAL:HG13	2.11	0.51
39:BJ:14:LEU:HD22	39:BJ:18:GLN:CD	2.35	0.51
40:BK:3:ARG:C	40:BK:4:ARG:HG2	2.36	0.51
42:BM:42:ARG:O	42:BM:43:ALA:C	2.53	0.51
42:BM:78:LYS:NZ	42:BM:101:PHE:HE2	1.96	0.51
42:BM:97:LYS:HZ2	42:BM:102:LEU:HD22	1.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:104:VAL:O	45:BP:106:ASP:N	2.43	0.51
46:BQ:22:ILE:CA	46:BQ:25:ILE:HD12	2.37	0.51
46:BQ:56:LEU:CD1	46:BQ:60:VAL:HG22	2.41	0.51
47:BR:16:PHE:C	47:BR:18:VAL:N	2.67	0.51
49:BT:54:GLU:O	49:BT:57:ARG:N	2.44	0.51
50:BU:10:VAL:CB	50:BU:54:GLY:H	2.24	0.51
50:BU:12:SER:OG	50:BU:14:LYS:HD2	2.11	0.51
50:BU:59:ILE:HG12	50:BU:71:PHE:HB3	1.93	0.51
50:BU:84:LEU:O	50:BU:85:VAL:C	2.54	0.51
55:CA:10:ILE:HD13	55:CA:21:LEU:HD13	1.92	0.51
55:CA:124:ILE:HA	55:CA:161:ALA:HB2	1.90	0.51
55:CA:137:PRO:HB2	55:CA:164:TYR:CE2	2.46	0.51
55:CA:137:PRO:CD	55:CA:138:ASP:H	2.24	0.51
55:CA:183:MET:SD	55:CA:187:TYR:CE2	3.04	0.51
55:CA:221:ILE:N	55:CA:221:ILE:CD1	2.73	0.51
55:CA:223:ILE:CA	55:CA:272:ASP:HB3	2.31	0.51
55:CA:311:PHE:N	55:CA:356:PHE:O	2.43	0.51
55:CA:313:VAL:HG23	55:CA:354:ASP:HB3	1.93	0.51
55:CA:496:ALA:HB3	55:CA:514:HIS:CA	2.32	0.51
55:CA:522:GLN:HA	55:CA:588:ARG:HB3	1.93	0.51
1:AA:8:A:H2'	1:AA:9:U:H6	1.76	0.51
1:AA:120:U:C2	1:AA:149:A:C2	2.99	0.51
1:AA:195:A:H4'	1:AA:251:A:O4'	2.11	0.51
1:AA:270(N):G:H3'	1:AA:270(O):U:C6	2.45	0.51
1:AA:422:A:N3	1:AA:422:A:C2'	2.69	0.51
1:AA:450:G:O6	1:AA:453:C:P	2.69	0.51
1:AA:527:C:H5	1:AA:2780:G:OP1	1.94	0.51
1:AA:548:A:C5	1:AA:549:G:H1'	2.46	0.51
1:AA:566:U:C6	1:AA:567:A:C8	2.99	0.51
1:AA:601:C:C4'	6:AF:104:LYS:HZ3	2.23	0.51
1:AA:702:G:H2'	1:AA:703:U:C5'	2.41	0.51
1:AA:707:G:H2'	1:AA:708:C:O4'	2.10	0.51
1:AA:758:C:H2'	1:AA:759:G:H8	1.75	0.51
1:AA:772:C:H2'	1:AA:773:U:C6	2.45	0.51
1:AA:809:G:O4'	1:AA:1254:A:H1'	2.10	0.51
1:AA:814:C:H4'	1:AA:1224:G:H22	1.76	0.51
1:AA:820:A:C2	1:AA:943:U:O2'	2.62	0.51
1:AA:957:A:C6	1:AA:959:A:C4	2.98	0.51
1:AA:962:G:C3'	1:AA:963:U:H6	2.23	0.51
1:AA:974:G:P	1:AA:974(A):C:OP2	2.69	0.51
1:AA:1135:C:C2	1:AA:1136:G:C8	2.99	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1263:U:C5	1:AA:1265:A:N6	2.75	0.51
1:AA:1426:G:C8	1:AA:1427:A:N7	2.79	0.51
1:AA:1442:G:H2'	1:AA:1442:G:N3	2.26	0.51
1:AA:1455:G:OP2	1:AA:1456:G:OP2	2.29	0.51
1:AA:1613:G:C1'	30:Ad:3:ARG:CZ	2.89	0.51
1:AA:1665:A:H4'	12:AL:1:MET:H1	1.76	0.51
1:AA:1669:A:C6	1:AA:1994:C:O2	2.64	0.51
1:AA:1675:C:OP2	1:AA:1676:A:OP2	2.28	0.51
1:AA:1787:A:C2'	1:AA:1788:C:H5'	2.40	0.51
1:AA:1838:C:H5'	1:AA:1839:G:OP1	2.11	0.51
1:AA:1902:C:H4'	4:AD:242:ARG:O	2.10	0.51
1:AA:1992:G:H1'	1:AA:1993:U:O4	2.11	0.51
1:AA:1999:C:C2	1:AA:2000:G:C8	2.99	0.51
1:AA:2006:C:O3'	1:AA:2823:A:H2	1.94	0.51
1:AA:2014:A:H2	1:AA:2613:U:C2	2.29	0.51
1:AA:2081:C:C2	1:AA:2082:A:H8	2.29	0.51
1:AA:2152:G:N1	1:AA:2153:G:C6	2.79	0.51
1:AA:2255:G:N2	1:AA:2256:G:H1'	2.25	0.51
1:AA:2281:C:HO2'	1:AA:2282:G:C5'	2.24	0.51
1:AA:2373:G:C4	1:AA:2374:C:C5	2.99	0.51
1:AA:2399:G:C2	1:AA:2400:G:C1'	2.89	0.51
1:AA:2417:C:C2	1:AA:2418:A:N7	2.79	0.51
1:AA:2584:U:C5	1:AA:2585:U:C2	2.98	0.51
1:AA:2658:C:H41	1:AA:2664:G:N2	2.05	0.51
1:AA:2709:G:H8	1:AA:2709:G:O5'	1.93	0.51
1:AA:2780:G:N2	11:AK:97:ARG:NH2	2.57	0.51
1:AA:2837:G:N2	1:AA:2882:A:C4	2.79	0.51
1:AA:2845:G:C5'	17:AQ:57:PHE:O	2.55	0.51
1:AA:2886:G:N2	1:AA:2887:U:C1'	2.74	0.51
2:AB:50:G:O3'	16:AP:61:ASN:HA	2.10	0.51
2:AB:58:A:N6	2:AB:59:A:C6	2.79	0.51
3:AC:104:LEU:CD2	3:AC:127:LEU:HD23	2.41	0.51
3:AC:134:ARG:HD3	3:AC:136:LEU:CD1	2.38	0.51
3:AC:181:PRO:O	3:AC:184:LYS:HB2	2.11	0.51
3:AC:209:LEU:HG	3:AC:212:VAL:HG23	1.92	0.51
4:AD:53:PHE:CE2	4:AD:221:VAL:HG13	2.46	0.51
4:AD:78:LYS:CG	4:AD:114:GLY:O	2.57	0.51
4:AD:225:ALA:HB3	4:AD:231:HIS:NE2	2.25	0.51
4:AD:244:ARG:O	4:AD:252:TRP:CG	2.63	0.51
5:AE:4:ILE:HD12	5:AE:76:ARG:NH1	2.26	0.51
5:AE:91:VAL:HG13	5:AE:95:ILE:HD13	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:3:GLU:O	6:AF:3:GLU:CD	2.54	0.51
8:AH:42:ARG:HA	8:AH:42:ARG:CZ	2.41	0.51
8:AH:118:PRO:CD	8:AH:121:ILE:HD13	2.29	0.51
11:AK:35:ARG:HB3	11:AK:37:LYS:H	1.76	0.51
11:AK:136:GLU:C	11:AK:137:LYS:HG3	2.36	0.51
12:AL:61:VAL:HA	12:AL:83:ALA:HB2	1.92	0.51
13:AM:122:PRO:HB2	13:AM:138:LEU:CA	2.40	0.51
14:AN:59:ARG:C	14:AN:60:ARG:CD	2.84	0.51
15:AO:51:LEU:HD23	15:AO:70:LEU:HD11	1.92	0.51
16:AP:57:LYS:NZ	16:AP:62:LYS:CB	2.74	0.51
17:AQ:7:ILE:C	17:AQ:9:LEU:N	2.61	0.51
17:AQ:67:SER:HA	17:AQ:75:ILE:CG2	2.41	0.51
18:AR:17:ILE:HG23	18:AR:20:LEU:HD12	1.92	0.51
18:AR:89:GLU:C	18:AR:90:VAL:HG23	2.35	0.51
18:AR:93:LYS:O	18:AR:94:ASN:ND2	2.44	0.51
19:AS:14:VAL:CG2	19:AS:21:ARG:HH22	2.23	0.51
21:AU:3:THR:O	21:AU:4:ALA:HB3	2.11	0.51
23:AW:12:GLY:O	23:AW:15:PRO:HG2	2.10	0.51
23:AW:29:TYR:O	23:AW:89:PHE:HD1	1.93	0.51
23:AW:39:VAL:O	23:AW:39:VAL:HG12	2.11	0.51
23:AW:43:GLU:N	23:AW:43:GLU:OE1	2.43	0.51
23:AW:68:PRO:HB2	23:AW:131:ARG:HH12	1.75	0.51
23:AW:102:LEU:HD13	23:AW:137:ILE:C	2.36	0.51
23:AW:129:SER:CB	23:AW:133:ILE:HG22	2.36	0.51
23:AW:158:PRO:CB	23:AW:159:PRO:HD2	2.27	0.51
25:AY:1:MET:SD	25:AY:3:LYS:HB2	2.51	0.51
33:Ag:313:UNK:HA	33:Ag:316:UNK:CB	2.40	0.51
34:BA:45:U:H2'	34:BA:46:G:C8	2.45	0.51
34:BA:55:A:H2'	34:BA:56:U:C4'	2.41	0.51
34:BA:80:G:H2'	34:BA:81:G:C8	2.45	0.51
34:BA:88:C:C2'	34:BA:89:U:OP2	2.58	0.51
34:BA:191(C):G:C2'	34:BA:191(D):U:O4'	2.59	0.51
34:BA:193:C:H2'	34:BA:194:C:H6	1.73	0.51
34:BA:219:C:O5'	34:BA:219:C:H6	1.94	0.51
34:BA:246:A:C4	34:BA:282:A:N6	2.79	0.51
34:BA:295:C:H2'	34:BA:296:U:O4'	2.11	0.51
34:BA:447:G:H1'	34:BA:487:A:H61	1.76	0.51
34:BA:557:G:C3'	34:BA:558:G:C8	2.88	0.51
34:BA:598:U:N3	34:BA:599:C:C5	2.78	0.51
34:BA:671:G:H2'	34:BA:672:U:H1'	1.93	0.51
34:BA:686:U:H2'	34:BA:687:A:H8	1.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:819:A:C5'	34:BA:820:U:OP2	2.54	0.51
34:BA:831:U:C2	34:BA:832:C:C5	2.99	0.51
34:BA:838:G:N1	34:BA:849:C:N3	2.58	0.51
34:BA:862:C:C4	34:BA:863:U:C5	2.99	0.51
34:BA:890:G:H2'	34:BA:891:U:OP2	2.11	0.51
34:BA:927:G:N1	34:BA:1391:U:C2	2.79	0.51
34:BA:927:G:H4'	34:BA:1503:A:N7	2.26	0.51
34:BA:946:A:O2'	34:BA:1333:A:H1'	2.10	0.51
34:BA:961:U:C5	34:BA:983:A:C6	2.99	0.51
34:BA:1051:C:H2'	34:BA:1052:U:C6	2.46	0.51
34:BA:1110:A:C2'	34:BA:1111:A:H5'	2.31	0.51
34:BA:1202:G:N3	34:BA:1203:C:C6	2.78	0.51
34:BA:1298:C:C6	40:BK:114:ARG:NH1	2.79	0.51
34:BA:1316:G:C4'	34:BA:1360:A:C4	2.93	0.51
34:BA:1517:G:N2	34:BA:1518:A:C1'	2.73	0.51
35:BF:35:GLU:HG2	35:BF:39:ILE:O	2.11	0.51
38:BI:127:ASN:O	38:BI:127:ASN:OD1	2.29	0.51
38:BI:133:TYR:HA	38:BI:136:MET:CG	2.40	0.51
38:BI:152:ARG:NH2	41:BL:44:PHE:N	2.59	0.51
39:BJ:1:MET:CB	39:BJ:67:MET:O	2.59	0.51
40:BK:16:LEU:HD12	42:BM:44:VAL:HG23	1.92	0.51
40:BK:88:PRO:HG2	40:BK:152:ALA:CB	2.37	0.51
41:BL:6:ILE:HG21	41:BL:85:ARG:NH2	2.26	0.51
43:BN:33:GLN:C	43:BN:34:VAL:HG23	2.35	0.51
43:BN:57:LYS:O	43:BN:57:LYS:HG2	2.11	0.51
44:BO:13:GLN:O	44:BO:14:VAL:HG23	2.11	0.51
45:BP:102:ARG:NH2	45:BP:109:GLY:C	2.69	0.51
46:BQ:14:ARG:CB	46:BQ:41:PRO:CA	2.88	0.51
48:BS:7:GLU:C	48:BS:10:LYS:HG2	2.34	0.51
48:BS:36:ILE:CG2	48:BS:37:ASN:N	2.73	0.51
51:BV:60:GLY:O	51:BV:64:ARG:HG3	2.11	0.51
52:BW:71:LEU:O	52:BW:74:PHE:CD1	2.64	0.51
55:CA:27:GLN:HG3	55:CA:28:GLN:CB	2.41	0.51
55:CA:176:HIS:CA	55:CA:177:GLU:CB	2.88	0.51
55:CA:184:THR:N	55:CA:185:PRO:CD	2.73	0.51
55:CA:446:ARG:CB	55:CA:480:VAL:HG11	2.40	0.51
1:AA:116:C:H4'	1:AA:127:A:C4'	2.41	0.51
1:AA:129:C:H5'	1:AA:1599:C:O2'	2.10	0.51
1:AA:144:C:O2'	1:AA:145:G:H5'	2.10	0.51
1:AA:195:A:C4	1:AA:198:C:N4	2.79	0.51
1:AA:311:A:C1'	1:AA:332:A:C5	2.94	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:312:G:O4'	1:AA:312:G:P	2.68	0.51
1:AA:339:U:C6	1:AA:340:A:N7	2.79	0.51
1:AA:360:G:C2'	1:AA:361:G:O5'	2.59	0.51
1:AA:410:G:O3'	1:AA:2407:G:OP2	2.29	0.51
1:AA:547:A:C5	1:AA:548:A:C5	2.99	0.51
1:AA:630:G:OP1	31:Ac:46:ARG:NH1	2.44	0.51
1:AA:724:U:H2'	1:AA:725:G:H5'	1.88	0.51
1:AA:775:G:N2	1:AA:787:U:O2'	2.43	0.51
1:AA:940:G:N3	1:AA:1191:G:H4'	2.26	0.51
1:AA:1107:G:O2'	1:AA:1108:U:H5'	2.11	0.51
1:AA:1203:G:H5'	1:AA:1205:U:OP2	2.11	0.51
1:AA:1264:G:O2'	28:Ab:7:PRO:HG3	2.10	0.51
1:AA:1448:G:H21	1:AA:1529:A:H2	1.59	0.51
1:AA:1475:G:C2	1:AA:1476:C:C6	2.98	0.51
1:AA:1485:G:O2'	1:AA:1486:A:H5'	2.11	0.51
1:AA:1531:C:H2'	1:AA:1532:C:H5	1.68	0.51
1:AA:1568:G:P	4:AD:61:LEU:HG	2.51	0.51
1:AA:1575:C:N4	1:AA:1576:U:N3	2.59	0.51
1:AA:1597:A:O3'	1:AA:1598:C:H6	1.93	0.51
1:AA:1636:C:C1'	1:AA:1761:C:H1'	2.41	0.51
1:AA:1879:C:C4	1:AA:1880:C:C4	2.99	0.51
1:AA:1892:C:N4	1:AA:1893:C:N4	2.58	0.51
1:AA:1942:C:H3'	1:AA:1942:C:OP2	2.11	0.51
1:AA:1964:G:C4	1:AA:1967:C:H5	2.29	0.51
1:AA:1992:G:C1'	1:AA:1993:U:H5	2.19	0.51
1:AA:2072:G:C4	1:AA:2073:C:H5	2.27	0.51
1:AA:2078:C:O2'	1:AA:2433:A:O2'	2.17	0.51
1:AA:2119:A:N1	1:AA:2171:A:C6	2.79	0.51
1:AA:2407:G:H3'	1:AA:2408:U:H5	1.75	0.51
1:AA:2415:G:C5'	13:AM:61:ARG:HD2	2.37	0.51
1:AA:2607:G:N2	1:AA:2608:G:H1'	2.25	0.51
1:AA:2623:G:H2'	1:AA:2623:G:N3	2.26	0.51
1:AA:2723:C:C4'	15:AO:2:ARG:O	2.58	0.51
1:AA:2754:U:O5'	1:AA:2754:U:H6	1.94	0.51
1:AA:2777:G:O5'	1:AA:2777:G:H8	1.93	0.51
1:AA:2788:C:O2	1:AA:2789:C:C2	2.64	0.51
2:AB:79:C:C2'	2:AB:80:U:H5'	2.41	0.51
5:AE:100:GLU:O	5:AE:172:VAL:HG22	2.11	0.51
5:AE:200:GLU:CA	5:AE:202:LYS:HZ3	2.23	0.51
6:AF:12:LEU:HD22	6:AF:129:PHE:N	2.26	0.51
6:AF:31:HIS:ND1	13:AM:11:GLY:CA	2.72	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:104:LYS:C	6:AF:108:LYS:NZ	2.68	0.51
6:AF:125:LEU:HD13	6:AF:128:ALA:CB	2.41	0.51
7:AG:62:LEU:HD23	7:AG:143:GLU:CG	2.40	0.51
7:AG:114:ILE:HG12	7:AG:140:ILE:HD11	1.93	0.51
7:AG:152:LEU:C	7:AG:155:MET:HE1	2.36	0.51
8:AH:90:LYS:NZ	8:AH:163:TYR:CG	2.76	0.51
11:AK:7:LYS:NZ	11:AK:10:GLU:N	2.51	0.51
11:AK:18:ALA:HB2	11:AK:54:VAL:HG21	1.93	0.51
11:AK:23:LEU:HD21	11:AK:62:VAL:HA	1.93	0.51
11:AK:89:LYS:HG2	11:AK:90:MET:H	1.75	0.51
12:AL:62:VAL:CB	12:AL:82:ASN:O	2.59	0.51
13:AM:10:PRO:O	13:AM:11:GLY:O	2.29	0.51
13:AM:88:LEU:HD21	13:AM:124:LYS:NZ	2.26	0.51
13:AM:101:VAL:CG2	13:AM:112:LEU:HD22	2.36	0.51
13:AM:114:ILE:HG12	13:AM:130:PHE:CG	2.46	0.51
13:AM:138:LEU:HD22	13:AM:138:LEU:C	2.35	0.51
14:AN:85:LYS:CG	14:AN:86:GLY:N	2.73	0.51
15:AO:53:HIS:C	15:AO:53:HIS:ND1	2.68	0.51
15:AO:99:LYS:HE2	28:Ab:43:HIS:ND1	2.26	0.51
16:AP:31:SER:HB3	16:AP:34:HIS:CG	2.45	0.51
17:AQ:30:VAL:CG2	17:AQ:31:SER:N	2.73	0.51
18:AR:14:HIS:O	18:AR:17:ILE:N	2.43	0.51
18:AR:59:ARG:C	18:AR:62:ILE:HB	2.36	0.51
18:AR:70:ARG:C	18:AR:72:HIS:N	2.67	0.51
18:AR:88:ILE:HG12	19:AS:52:VAL:CG2	2.41	0.51
19:AS:78:LYS:HB2	19:AS:78:LYS:HZ3	1.76	0.51
20:AT:11:ARG:HB2	20:AT:98:LYS:CD	2.41	0.51
20:AT:59:VAL:C	20:AT:63:ASP:HA	2.36	0.51
21:AU:9:LEU:HD12	21:AU:9:LEU:H	1.72	0.51
21:AU:12:VAL:CG2	21:AU:28:PHE:HA	2.36	0.51
21:AU:35:THR:HB	21:AU:38:GLU:HB2	1.93	0.51
22:AV:1:MET:HG2	22:AV:33:LYS:CG	2.41	0.51
22:AV:37:VAL:CG1	22:AV:39:VAL:HB	2.40	0.51
22:AV:46:LYS:NZ	22:AV:49:VAL:CG2	2.74	0.51
22:AV:54:LYS:C	22:AV:56:PRO:HD3	2.35	0.51
23:AW:1:MET:HE1	23:AW:61:LEU:HG	1.92	0.51
23:AW:77:ASP:O	23:AW:78:LYS:C	2.53	0.51
23:AW:123:ASP:H	23:AW:171:ILE:HD13	1.74	0.51
26:AZ:38:GLU:HG2	26:AZ:38:GLU:O	2.11	0.51
27:Aa:58:ARG:C	27:Aa:62:ARG:NE	2.69	0.51
28:Ab:11:THR:O	28:Ab:11:THR:OG1	2.27	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:17:LYS:HZ3	29:Ac:50:ARG:HA	1.76	0.51
30:Ad:9:ARG:O	30:Ad:13:ALA:HB3	2.08	0.51
33:Ag:7:UNK:N	33:Ag:144:UNK:HA	2.26	0.51
34:BA:270:A:H8	34:BA:270:A:OP2	1.94	0.51
34:BA:300:A:O5'	34:BA:300:A:H8	1.94	0.51
34:BA:322:C:H2'	34:BA:323:U:O4'	2.11	0.51
34:BA:538:G:O3'	45:BP:114:LYS:CD	2.52	0.51
34:BA:759:A:N6	34:BA:760:G:C2	2.79	0.51
34:BA:850:U:H2'	34:BA:851:G:H8	1.76	0.51
34:BA:872:A:C5	34:BA:874:G:C8	2.99	0.51
34:BA:893:C:N3	34:BA:894:G:N7	2.58	0.51
34:BA:936:C:H2'	34:BA:937:A:C5'	2.41	0.51
34:BA:960:U:N3	34:BA:1225:A:C5	2.75	0.51
34:BA:971:G:C5	34:BA:1365:G:H5'	2.46	0.51
34:BA:997:U:H6	34:BA:997:U:OP2	1.94	0.51
34:BA:1027:C:C4	34:BA:1028:C:C5	2.99	0.51
34:BA:1205:U:H2'	34:BA:1206:G:C8	2.46	0.51
34:BA:1270:C:C3'	34:BA:1314:C:H5'	2.38	0.51
34:BA:1314:C:N4	34:BA:1324:A:H61	2.09	0.51
34:BA:1389:C:C2'	34:BA:1390:U:C5'	2.88	0.51
35:BF:35:GLU:OE2	35:BF:39:ILE:N	2.44	0.51
35:BF:92:TYR:CD2	35:BF:92:TYR:C	2.87	0.51
35:BF:100:GLY:C	35:BF:104:ASN:ND2	2.69	0.51
35:BF:101:MET:HB3	35:BF:105:PHE:CE1	2.46	0.51
36:BG:11:ARG:HH11	36:BG:15:THR:CG2	2.23	0.51
36:BG:39:ILE:O	36:BG:40:ARG:C	2.54	0.51
36:BG:108:ASN:O	36:BG:110:ASN:N	2.44	0.51
36:BG:157:ILE:HG13	36:BG:164:ARG:NE	2.26	0.51
37:BH:108:LEU:HD12	37:BH:183:GLY:HA3	1.93	0.51
37:BH:165:MET:HG3	37:BH:166:LYS:N	2.26	0.51
37:BH:188:LEU:C	37:BH:189:PRO:O	2.46	0.51
38:BI:147:ASP:O	38:BI:150:ARG:N	2.44	0.51
39:BJ:46:ARG:NH2	51:BV:37:VAL:HG11	2.25	0.51
40:BK:16:LEU:O	40:BK:17:VAL:HG23	2.09	0.51
40:BK:147:ALA:C	40:BK:149:ARG:H	2.19	0.51
41:BL:26:VAL:CG2	41:BL:27:PRO:CD	2.87	0.51
41:BL:97:VAL:HG12	41:BL:99:GLU:OE2	2.10	0.51
43:BN:61:GLU:CG	43:BN:62:HIS:H	2.19	0.51
44:BO:29:ILE:HG13	44:BO:29:ILE:O	2.10	0.51
44:BO:68:ALA:O	44:BO:72:ALA:HB2	2.11	0.51
45:BP:77:LEU:CD1	45:BP:107:ALA:HB2	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:23:ARG:HA	47:BR:30:ALA:HA	1.93	0.51
47:BR:24:CYS:SG	47:BR:27:CYS:C	2.94	0.51
47:BR:41:ARG:O	47:BR:44:LEU:HB3	2.11	0.51
48:BS:70:LEU:CG	48:BS:78:TYR:CD1	2.88	0.51
49:BT:55:ARG:NH2	49:BT:58:TYR:CG	2.79	0.51
49:BT:75:ARG:CG	49:BT:80:PHE:CB	2.81	0.51
50:BU:10:VAL:HB	50:BU:55:ASP:N	2.26	0.51
50:BU:11:VAL:HB	50:BU:20:THR:CB	2.41	0.51
51:BV:83:GLU:OE1	51:BV:83:GLU:HA	2.09	0.51
52:BW:80:TYR:CD1	52:BW:81:ARG:N	2.74	0.51
54:BY:9:ARG:NH1	54:BY:21:TYR:CD2	2.76	0.51
55:CA:102:PHE:HE2	55:CA:134:GLY:N	2.08	0.51
55:CA:128:ASN:O	55:CA:129:LYS:HB2	2.11	0.51
55:CA:160:PHE:CA	55:CA:161:ALA:HB3	2.40	0.51
55:CA:206:GLN:CB	55:CA:228:ARG:HB2	2.41	0.51
55:CA:220:VAL:C	55:CA:221:ILE:HD12	2.35	0.51
55:CA:240:ILE:HG12	55:CA:287:THR:OG1	2.11	0.51
55:CA:251:VAL:CG1	55:CA:273:ILE:HA	2.27	0.51
55:CA:283:ASN:C	55:CA:285:SER:H	2.18	0.51
55:CA:351:GLU:CD	55:CA:351:GLU:H	2.19	0.51
1:AA:7:G:N2	1:AA:2896:C:H2'	2.26	0.51
1:AA:27:G:C2	1:AA:512:G:C2'	2.93	0.51
1:AA:84:A:N6	1:AA:99:U:O2'	2.44	0.51
1:AA:152:G:N1	1:AA:175:G:C4	2.79	0.51
1:AA:228:A:N6	1:AA:230:U:N3	2.59	0.51
1:AA:246:C:O2	1:AA:246:C:H2'	2.11	0.51
1:AA:262:A:H2'	1:AA:263:C:H6	1.76	0.51
1:AA:443:A:H61	6:AF:41:LEU:HD12	1.76	0.51
1:AA:452:G:C2	1:AA:458:G:N2	2.79	0.51
1:AA:533:G:N7	1:AA:534:U:C4	2.78	0.51
1:AA:552:G:C5	1:AA:553:U:C5	2.98	0.51
1:AA:625:G:H1	13:AM:100:LEU:HB3	1.76	0.51
1:AA:629:G:H5'	1:AA:649:G:H21	1.75	0.51
1:AA:647:G:H5'	1:AA:2352:A:H5'	1.92	0.51
1:AA:751:A:N7	1:AA:789:A:N6	2.59	0.51
1:AA:753:C:H2'	1:AA:754:C:C6	2.46	0.51
1:AA:971:C:OP2	1:AA:974(A):C:C5	2.64	0.51
1:AA:980:A:C4	1:AA:981:A:C2	2.98	0.51
1:AA:1007:C:H4'	11:AK:108:PRO:CD	2.41	0.51
1:AA:1055:G:C4'	9:AI:33:PRO:HA	2.40	0.51
1:AA:1250:G:HO2'	1:AA:1251:C:P	2.34	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1264:G:OP2	1:AA:1265:A:C2	2.63	0.51
1:AA:1310:G:N7	1:AA:1311:G:N3	2.59	0.51
1:AA:1313:U:OP1	21:AU:63:LYS:HG2	2.11	0.51
1:AA:1327:C:H5''	1:AA:1328:G:OP2	2.11	0.51
1:AA:1354:A:C2'	1:AA:1355:G:H5'	2.40	0.51
1:AA:1440:G:H2'	1:AA:1441:G:H8	1.75	0.51
1:AA:1519:G:H3'	1:AA:1520:U:N1	2.26	0.51
1:AA:1591:G:C2	1:AA:1592:C:C4	2.99	0.51
1:AA:1613:G:N2	1:AA:1619:G:C8	2.76	0.51
1:AA:1638:C:H5''	1:AA:2710:C:C2'	2.41	0.51
1:AA:1706:U:N3	1:AA:1757:U:H5''	2.21	0.51
1:AA:1743:G:C5	1:AA:1746:G:N7	2.79	0.51
1:AA:1819:A:OP2	4:AD:157:ARG:HA	2.11	0.51
1:AA:1853:A:N3	1:AA:2233:U:O2'	2.42	0.51
1:AA:1938:A:H2	1:AA:2590:A:O4'	1.93	0.51
1:AA:1949:G:C5	1:AA:1950:G:N7	2.79	0.51
1:AA:1980:G:H2'	1:AA:1982:C:OP2	2.11	0.51
1:AA:2000:G:H2'	1:AA:2001:A:H8	1.76	0.51
1:AA:2014:A:C2	1:AA:2613:U:N3	2.79	0.51
1:AA:2191:G:N2	1:AA:2192:G:H1'	2.24	0.51
1:AA:2209:C:C6	1:AA:2209:C:C3'	2.94	0.51
1:AA:2247:A:H2'	1:AA:2248:C:H6	1.76	0.51
1:AA:2365:G:H4'	24:AX:60:PHE:CE2	2.45	0.51
1:AA:2408:U:C2	1:AA:2409:G:C8	2.98	0.51
1:AA:2484:G:H21	14:AN:124:LYS:HD2	1.75	0.51
1:AA:2526:G:H1'	32:Af:35:ARG:HH12	1.74	0.51
1:AA:2667:C:C3'	1:AA:2668:G:H5'	2.38	0.51
1:AA:2684:U:O2'	12:AL:67:LYS:CG	2.57	0.51
1:AA:2692:C:O2'	1:AA:2693:A:H5'	2.11	0.51
1:AA:2805:G:C3'	1:AA:2807:G:C5'	2.86	0.51
1:AA:2815:C:O2'	1:AA:2816:C:C5'	2.52	0.51
2:AB:50:G:H5''	16:AP:61:ASN:CA	2.40	0.51
3:AC:209:LEU:HD23	3:AC:209:LEU:C	2.36	0.51
5:AE:38:THR:O	5:AE:42:ASP:OD1	2.28	0.51
5:AE:115:GLY:O	5:AE:118:LYS:O	2.29	0.51
5:AE:127:ASP:O	5:AE:128:SER:CB	2.58	0.51
6:AF:114:VAL:HG23	6:AF:186:ILE:HD13	1.92	0.51
6:AF:117:ARG:HG3	6:AF:187:VAL:HA	1.93	0.51
6:AF:161:GLU:OE1	6:AF:161:GLU:HA	2.11	0.51
7:AG:9:ARG:CZ	7:AG:9:ARG:HB2	2.41	0.51
7:AG:39:ILE:CA	7:AG:157:ILE:HG13	2.42	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:153:LYS:N	8:AH:154:PRO:CD	2.57	0.51
10:AJ:95:LYS:CE	10:AJ:95:LYS:CA	2.86	0.51
11:AK:6:PRO:HB3	11:AK:41:ASP:HB3	1.92	0.51
11:AK:23:LEU:HD11	11:AK:62:VAL:CA	2.39	0.51
11:AK:66:LYS:N	11:AK:69:GLN:OE1	2.44	0.51
11:AK:99:LEU:O	11:AK:102:ALA:N	2.43	0.51
12:AL:76:ALA:CB	12:AL:78:ARG:HH22	2.24	0.51
12:AL:109:LYS:O	12:AL:110:GLY:C	2.54	0.51
13:AM:88:LEU:HD21	13:AM:124:LYS:HZ1	1.76	0.51
15:AO:82:GLU:O	15:AO:83:ILE:HD13	2.11	0.51
17:AQ:104:ASN:CA	17:AQ:108:ARG:HH12	2.23	0.51
20:AT:74:ALA:HB1	20:AT:105:VAL:CB	2.40	0.51
22:AV:9:LYS:HD2	22:AV:110:GLU:CD	2.35	0.51
22:AV:97:ARG:CB	22:AV:101:LYS:HG2	2.40	0.51
23:AW:50:GLN:O	23:AW:52:SER:N	2.32	0.51
23:AW:71:VAL:HG11	23:AW:74:VAL:HG23	1.92	0.51
23:AW:150:LEU:C	23:AW:151:HIS:CG	2.89	0.51
23:AW:151:HIS:CG	23:AW:170:THR:H	2.28	0.51
25:AY:19:LEU:O	25:AY:19:LEU:HD22	2.11	0.51
27:Aa:68:ARG:O	27:Aa:71:ARG:HA	2.11	0.51
31:Ae:22:VAL:HB	31:Ae:48:PHE:CE1	2.45	0.51
34:BA:49:U:C4	34:BA:364:A:N7	2.79	0.51
34:BA:93:U:H2'	34:BA:95:G:H8	1.71	0.51
34:BA:134:A:N6	34:BA:135:C:N4	2.59	0.51
34:BA:149:A:H2'	34:BA:150:C:C6	2.46	0.51
34:BA:160:A:O2'	34:BA:161:A:H5'	2.11	0.51
34:BA:254:G:O6	34:BA:273:A:N6	2.44	0.51
34:BA:341:C:O2'	34:BA:342:C:O5'	2.29	0.51
34:BA:474:G:H2'	34:BA:475:G:H8	1.76	0.51
34:BA:501:C:O2'	34:BA:549:C:O2	2.26	0.51
34:BA:543:C:P	37:BH:10:ARG:NH2	2.83	0.51
34:BA:585:G:H2'	34:BA:586:C:H6	1.74	0.51
34:BA:621:A:H2'	34:BA:622:A:C8	2.46	0.51
34:BA:749:C:O2	34:BA:749:C:C2'	2.59	0.51
34:BA:860:A:N7	34:BA:861:G:C4	2.79	0.51
34:BA:960:U:O2	34:BA:960:U:H2'	2.11	0.51
34:BA:1106:G:C2'	34:BA:1107:C:H6	2.14	0.51
34:BA:1163:C:H2'	34:BA:1164:G:H5'	1.92	0.51
34:BA:1298:C:O2	34:BA:1298:C:C2'	2.59	0.51
34:BA:1362(A):C:H5'	34:BA:1363:A:O5'	2.11	0.51
34:BA:1382:C:C6	34:BA:1383:C:H5	2.29	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1401:G:H2'	34:BA:1402:C:C4'	2.41	0.51
34:BA:1419:G:C6	34:BA:1482:G:C2	2.99	0.51
34:BA:1491:G:C8	56:BA:1601:NMY:O3	2.63	0.51
35:BF:69:LEU:CD1	35:BF:92:TYR:HA	2.32	0.51
35:BF:213:LEU:CD2	35:BF:213:LEU:C	2.82	0.51
36:BG:28:GLN:NE2	36:BG:29:TYR:H	2.08	0.51
36:BG:142:MET:HA	36:BG:146:ALA:HB3	1.92	0.51
36:BG:156:ARG:O	36:BG:157:ILE:C	2.54	0.51
37:BH:17:VAL:O	37:BH:18:LYS:O	2.29	0.51
38:BI:80:ILE:HD12	38:BI:80:ILE:H	1.74	0.51
40:BK:42:ILE:HD13	40:BK:116:ALA:CB	2.41	0.51
40:BK:47:CYS:HA	40:BK:50:ILE:HG13	1.93	0.51
41:BL:10:LEU:O	41:BL:14:ARG:NH1	2.30	0.51
41:BL:14:ARG:HB3	41:BL:83:ILE:HG21	1.92	0.51
41:BL:60:ARG:HG3	41:BL:61:VAL:N	2.26	0.51
41:BL:69:ARG:O	41:BL:74:PRO:HA	2.11	0.51
43:BN:9:ARG:HH11	43:BN:9:ARG:HB2	1.76	0.51
44:BO:12:ARG:HH11	44:BO:40:ILE:HG23	1.76	0.51
44:BO:42:TRP:CZ3	44:BO:47:VAL:CG2	2.94	0.51
44:BO:58:PRO:CA	44:BO:90:GLY:HA3	2.41	0.51
45:BP:23:LYS:HA	45:BP:23:LYS:CE	2.21	0.51
46:BQ:81:LEU:CD1	46:BQ:81:LEU:N	2.73	0.51
50:BU:51:TYR:CE1	50:BU:73:VAL:HG11	2.46	0.51
50:BU:59:ILE:HD11	50:BU:71:PHE:C	2.36	0.51
50:BU:75:ARG:HH12	50:BU:77:VAL:CA	2.23	0.51
55:CA:144:VAL:O	55:CA:144:VAL:HG12	2.11	0.51
55:CA:204:PRO:O	55:CA:229:GLY:CA	2.59	0.51
55:CA:245:LYS:HB2	55:CA:291:THR:CG2	2.41	0.51
55:CA:393:ASP:N	55:CA:394:GLY:CA	2.73	0.51
1:AA:70:G:H2'	1:AA:114:U:C5	2.46	0.50
1:AA:82:G:H21	1:AA:83:G:N2	2.09	0.50
1:AA:137(A):G:C2	1:AA:138:G:O6	2.64	0.50
1:AA:149:A:C2'	1:AA:150:C:H5'	2.37	0.50
1:AA:203:C:C6	1:AA:204:A:N7	2.79	0.50
1:AA:221:A:C4'	1:AA:222:A:H5'	2.10	0.50
1:AA:279:C:N3	1:AA:360:G:O6	2.44	0.50
1:AA:311:A:C2	1:AA:331:A:H5''	2.45	0.50
1:AA:389:G:OP2	27:Aa:24:THR:CG2	2.58	0.50
1:AA:414:C:O2	1:AA:1864:U:H4'	2.11	0.50
1:AA:447:A:C6	1:AA:473:G:N9	2.79	0.50
1:AA:465:G:N2	1:AA:683:C:H2'	2.24	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:479:A:N3	1:AA:480:A:N7	2.58	0.50
1:AA:510:C:C2	1:AA:511:U:C6	2.98	0.50
1:AA:531:C:C4'	1:AA:2035:G:H21	2.24	0.50
1:AA:558:G:N3	1:AA:559:G:N7	2.59	0.50
1:AA:609:A:C5	1:AA:609(A):G:O6	2.64	0.50
1:AA:705:A:N6	1:AA:727:A:H1'	2.26	0.50
1:AA:731:C:C2'	1:AA:732:C:H5'	2.41	0.50
1:AA:771:G:C4	1:AA:772:C:C5	2.98	0.50
1:AA:922:U:H2'	1:AA:923:C:C5	2.46	0.50
1:AA:1020:A:O2'	1:AA:1021:A:N7	2.43	0.50
1:AA:1080:C:C6	10:AJ:129:GLY:HA2	2.45	0.50
1:AA:1142:U:O2'	1:AA:1142(A):A:H5'	2.11	0.50
1:AA:1272:A:O2'	1:AA:1273:U:P	2.68	0.50
1:AA:1464:C:C4'	1:AA:1528:A:O2'	2.59	0.50
1:AA:1712:C:C2'	1:AA:1716:U:H6	2.23	0.50
1:AA:1754:C:C2	1:AA:1755:A:N9	2.79	0.50
1:AA:1924:C:N1	1:AA:1925:C:H5	2.10	0.50
1:AA:2110:G:H4'	1:AA:2111:C:OP1	2.07	0.50
1:AA:2199:A:C4	1:AA:2225:A:N1	2.80	0.50
1:AA:2232:U:N3	1:AA:2233:U:C5	2.79	0.50
1:AA:2256:G:H5''	1:AA:2256:G:C8	2.46	0.50
1:AA:2301:C:N3	1:AA:2302:G:N7	2.58	0.50
1:AA:2320:A:H5'	1:AA:2321:G:N7	2.26	0.50
1:AA:2373:G:H2'	1:AA:2374:C:C5	2.46	0.50
1:AA:2400:G:C6	1:AA:2401:U:N3	2.79	0.50
1:AA:2409:G:C2	1:AA:2410:G:H1'	2.46	0.50
1:AA:2660:A:C8	1:AA:2661:G:C8	2.98	0.50
1:AA:2682:U:C2	5:AE:21:VAL:HG21	2.46	0.50
1:AA:2849:U:H2'	1:AA:2850:A:OP2	2.11	0.50
1:AA:2875:C:OP1	17:AQ:3:ARG:NH1	2.43	0.50
1:AA:2876:G:C4'	17:AQ:1:MET:N	2.69	0.50
2:AB:14:U:C6	2:AB:14:U:C3'	2.93	0.50
2:AB:58:A:C5	2:AB:59:A:N7	2.79	0.50
2:AB:80:U:C2'	2:AB:81:G:C8	2.93	0.50
3:AC:148:ASN:HB2	3:AC:151:GLU:HB2	1.92	0.50
4:AD:5:LYS:CB	4:AD:82:ILE:HB	2.33	0.50
5:AE:152:LYS:O	5:AE:152:LYS:CD	2.58	0.50
6:AF:182:ASN:O	6:AF:186:ILE:HG13	2.11	0.50
8:AH:54:ARG:HB3	8:AH:54:ARG:NH1	2.26	0.50
8:AH:85:LYS:HZ3	8:AH:142:GLY:CA	2.24	0.50
10:AJ:74:ALA:CB	10:AJ:126:MET:HE2	2.38	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:7:ARG:H	13:AM:8:PRO:CD	2.24	0.50
13:AM:51:PHE:O	13:AM:52:GLU:C	2.54	0.50
13:AM:97:PRO:HD3	13:AM:102:ARG:CZ	2.41	0.50
13:AM:130:PHE:HB3	13:AM:134:ALA:HB1	1.93	0.50
14:AN:16:ARG:O	14:AN:17:LEU:CG	2.59	0.50
15:AO:103:ARG:HA	15:AO:109:ALA:O	2.10	0.50
16:AP:78:LEU:HD22	16:AP:78:LEU:O	2.10	0.50
17:AQ:52:ILE:N	17:AQ:66:VAL:CG1	2.73	0.50
17:AQ:85:LYS:H	17:AQ:85:LYS:HZ3	1.57	0.50
17:AQ:104:ASN:HA	17:AQ:107:ASP:OD2	2.10	0.50
18:AR:39:LEU:O	18:AR:41:ALA:N	2.44	0.50
18:AR:55:ARG:C	18:AR:58:ARG:HB3	2.34	0.50
22:AV:2:ARG:C	22:AV:4:LYS:N	2.69	0.50
22:AV:46:LYS:HB3	22:AV:46:LYS:HZ3	1.76	0.50
23:AW:6:LYS:HE3	23:AW:35:ARG:HG3	1.93	0.50
23:AW:16:SER:O	23:AW:19:ARG:HB2	2.11	0.50
23:AW:116:VAL:HG21	23:AW:144:LEU:O	2.10	0.50
24:AX:40:GLN:NE2	24:AX:42:GLY:O	2.43	0.50
27:Aa:21:VAL:CG1	27:Aa:22:ILE:H	2.06	0.50
27:Aa:54:GLY:O	27:Aa:55:ARG:CB	2.59	0.50
28:Ab:47:PRO:HG2	28:Ab:48:GLU:OE2	2.11	0.50
31:Ae:8:LYS:O	31:Ae:9:GLY:C	2.53	0.50
34:BA:50:A:C2	34:BA:360:A:C2'	2.94	0.50
34:BA:236:G:C3'	34:BA:237:C:C6	2.91	0.50
34:BA:280:C:C5'	34:BA:281:G:OP2	2.57	0.50
34:BA:295:C:C2'	34:BA:296:U:O5'	2.59	0.50
34:BA:304:U:O2'	34:BA:305:G:H5'	2.10	0.50
34:BA:333:G:C4'	53:BX:16:HIS:CD2	2.93	0.50
34:BA:851:G:C2	34:BA:852:G:C1'	2.94	0.50
34:BA:872:A:C2	34:BA:874:G:O6	2.64	0.50
34:BA:885:G:C2	34:BA:913:A:N1	2.80	0.50
34:BA:1026:G:C8	34:BA:1027:C:H6	2.28	0.50
34:BA:1062:U:C2	34:BA:1063:C:N4	2.80	0.50
34:BA:1071:C:N4	34:BA:1084:G:N2	2.58	0.50
34:BA:1073:U:O2'	34:BA:1074:G:C5'	2.57	0.50
34:BA:1167:A:H2	34:BA:1169:A:N3	2.09	0.50
34:BA:1170:A:C8	34:BA:1171:G:C8	2.98	0.50
34:BA:1237:C:H5''	34:BA:1238:A:C8	2.47	0.50
34:BA:1277:C:C2'	34:BA:1279:A:H8	2.24	0.50
34:BA:1324:A:C6	34:BA:1325:C:C5	3.00	0.50
34:BA:1392:G:H2'	34:BA:1393:U:H6	1.73	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1418:A:N1	34:BA:1483:A:C6	2.79	0.50
34:BA:1435:G:N2	34:BA:1436:U:C4	2.79	0.50
35:BF:58:ILE:HG23	35:BF:61:LEU:HD13	1.93	0.50
35:BF:189:ASP:OD2	35:BF:205:ASP:CG	2.54	0.50
36:BG:76:VAL:CG1	36:BG:77:ILE:N	2.74	0.50
38:BI:43:LEU:N	38:BI:65:ASN:ND2	2.48	0.50
39:BJ:52:ILE:CG2	39:BJ:53:ALA:H	2.23	0.50
40:BK:70:LYS:C	40:BK:138:LYS:HE3	2.36	0.50
40:BK:72:ARG:O	40:BK:91:VAL:N	2.43	0.50
41:BL:35:ILE:O	41:BL:36:LEU:C	2.52	0.50
41:BL:112:LEU:HD12	41:BL:131:GLY:O	2.11	0.50
45:BP:28:LYS:CE	45:BP:33:ARG:HH22	2.22	0.50
45:BP:69:TYR:O	45:BP:71:PRO:CD	2.59	0.50
46:BQ:65:LYS:CA	46:BQ:66:LEU:CB	2.86	0.50
49:BT:21:VAL:N	49:BT:36:ILE:HD11	2.26	0.50
49:BT:52:ASP:OD2	49:BT:55:ARG:N	2.45	0.50
49:BT:53:VAL:HG12	49:BT:79:VAL:HG22	1.92	0.50
49:BT:75:ARG:HG3	49:BT:80:PHE:CD1	2.46	0.50
50:BU:21:VAL:O	50:BU:42:TYR:O	2.29	0.50
50:BU:75:ARG:HH12	50:BU:77:VAL:HA	1.77	0.50
54:BY:7:ARG:O	54:BY:12:LYS:HD3	2.11	0.50
55:CA:11:ILE:CD1	55:CA:95:VAL:CB	2.57	0.50
55:CA:24:LYS:N	55:CA:26:LEU:CD2	2.74	0.50
55:CA:169:ASN:C	55:CA:171:ILE:HD13	2.36	0.50
55:CA:209:ILE:CD1	55:CA:288:VAL:CG2	2.88	0.50
55:CA:446:ARG:O	55:CA:480:VAL:CG1	2.59	0.50
1:AA:66:C:C4	1:AA:67:U:C5	2.99	0.50
1:AA:70:G:H4'	1:AA:71:A:H5'	1.89	0.50
1:AA:182:A:O2'	1:AA:183:C:O4'	2.29	0.50
1:AA:185:U:C4	1:AA:212:G:N2	2.79	0.50
1:AA:354:G:OP2	1:AA:354:G:H8	1.93	0.50
1:AA:393:C:H2'	1:AA:394:A:O4'	2.10	0.50
1:AA:473:G:N2	1:AA:474:G:N3	2.59	0.50
1:AA:532:A:OP1	1:AA:532:A:C4'	2.57	0.50
1:AA:563:G:C2	1:AA:564:C:C4	2.99	0.50
1:AA:570:G:H2'	1:AA:2030:A:N6	2.26	0.50
1:AA:641:C:H41	1:AA:646:A:H61	1.59	0.50
1:AA:685:A:C4	1:AA:774:A:C6	2.99	0.50
1:AA:740:U:C6	1:AA:741:G:N7	2.79	0.50
1:AA:774:A:C5'	1:AA:778:G:H4'	2.41	0.50
1:AA:781:A:H8	4:AD:220:HIS:NE2	2.07	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:819:A:C8	1:AA:819:A:H5'	2.46	0.50
1:AA:993:G:C5	1:AA:994:C:N4	2.79	0.50
1:AA:1013:C:H2'	1:AA:1014:U:H6	1.76	0.50
1:AA:1022:G:C6	1:AA:1139:G:C2	2.99	0.50
1:AA:1024:G:C6	1:AA:1134:G:H1'	2.46	0.50
1:AA:1037:G:N2	1:AA:1119:C:C1'	2.71	0.50
1:AA:1179:C:O2'	1:AA:1180:C:P	2.69	0.50
1:AA:1263:U:H4'	28:Ab:10:LYS:HD3	1.92	0.50
1:AA:1334:G:P	21:AU:65:ARG:HH12	2.34	0.50
1:AA:1495:A:O5'	1:AA:1495:A:H8	1.94	0.50
1:AA:1552:G:H5'	1:AA:1553:A:OP1	2.11	0.50
1:AA:1575:C:N4	1:AA:1576:U:C4	2.80	0.50
1:AA:1588:C:H2'	1:AA:1589:C:C6	2.44	0.50
1:AA:1598:C:H5''	21:AU:36:LYS:CB	2.19	0.50
1:AA:1619:G:N2	1:AA:1620:G:C4	2.80	0.50
1:AA:1804:C:O3'	4:AD:250:TRP:CH2	2.64	0.50
1:AA:1819:A:OP1	4:AD:158:ALA:N	2.44	0.50
1:AA:1907:G:H1	1:AA:1924:C:H42	0.52	0.50
1:AA:1920:C:H6	56:AA:3001:NMY:O4	1.94	0.50
1:AA:2047:U:C2	1:AA:2048:G:N7	2.79	0.50
1:AA:2049:G:O2'	1:AA:2050:C:O5'	2.28	0.50
1:AA:2063:C:C3'	1:AA:2064:C:C5'	2.87	0.50
1:AA:2072:G:N3	1:AA:2073:C:C5	2.79	0.50
1:AA:2113:U:H3	1:AA:2169:A:H61	1.58	0.50
1:AA:2118:U:C6	1:AA:2147:G:O6	2.64	0.50
1:AA:2208:U:C3'	4:AD:151:LYS:HZ2	2.24	0.50
1:AA:2243:U:C2	1:AA:2244:U:C5	3.00	0.50
1:AA:2260:C:O2'	1:AA:2261:C:H5'	2.11	0.50
1:AA:2369:A:N6	1:AA:2382:G:N2	2.57	0.50
1:AA:2491:U:H5	1:AA:2492:U:OP2	1.94	0.50
1:AA:2512:C:H2'	1:AA:2513:G:C5'	2.41	0.50
1:AA:2714:G:O6	1:AA:2715:C:N4	2.44	0.50
1:AA:2748:A:N1	1:AA:2757:A:N6	2.59	0.50
1:AA:2764:A:N7	1:AA:2766:G:O6	2.45	0.50
1:AA:2794:C:N3	1:AA:2802:G:C6	2.78	0.50
1:AA:2825:C:N3	1:AA:2826:A:N7	2.60	0.50
1:AA:2862:G:C4	1:AA:2863:C:C5	2.99	0.50
2:AB:37:C:H3'	2:AB:38:C:C6	2.45	0.50
2:AB:49:C:OP1	16:AP:96:GLY:HA3	2.10	0.50
3:AC:21:THR:HG21	3:AC:228:SER:HB3	1.93	0.50
3:AC:177:LYS:HB2	3:AC:180:PHE:CG	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:89:SER:O	4:AD:202:LYS:HE3	2.11	0.50
4:AD:142:VAL:HG22	4:AD:165:ILE:HD11	1.91	0.50
4:AD:168:ARG:CD	4:AD:173:VAL:HG22	2.29	0.50
4:AD:182:LEU:O	4:AD:268:ARG:HA	2.11	0.50
4:AD:228:PRO:O	4:AD:229:VAL:C	2.53	0.50
5:AE:84:PHE:C	5:AE:85:ASN:ND2	2.64	0.50
5:AE:111:ARG:HB2	5:AE:160:TYR:C	2.37	0.50
5:AE:119:ARG:CZ	5:AE:155:LYS:HD2	2.42	0.50
6:AF:45:ARG:HD3	6:AF:97:TYR:CE2	2.46	0.50
7:AG:56:ALA:HB3	7:AG:68:PRO:CB	2.41	0.50
7:AG:110:ALA:HB1	7:AG:139:LEU:HD21	1.92	0.50
7:AG:174:GLU:CG	7:AG:175:LEU:N	2.73	0.50
8:AH:73:ALA:O	8:AH:76:VAL:CG2	2.47	0.50
10:AJ:55:VAL:CB	10:AJ:56:GLU:HA	2.27	0.50
12:AL:2:ILE:HB	12:AL:32:TYR:HA	1.91	0.50
12:AL:72:PRO:O	17:AQ:84:GLN:NE2	2.44	0.50
12:AL:97:ARG:C	12:AL:97:ARG:CD	2.80	0.50
12:AL:111:PHE:O	12:AL:114:ILE:N	2.44	0.50
13:AM:98:GLU:O	13:AM:100:LEU:HD23	2.11	0.50
13:AM:113:LYS:HD3	13:AM:113:LYS:C	2.35	0.50
14:AN:6:ARG:CZ	14:AN:8:LYS:H	2.25	0.50
14:AN:134:ARG:C	14:AN:134:ARG:NH1	2.67	0.50
15:AO:8:ARG:NH2	15:AO:17:ARG:CD	2.74	0.50
15:AO:23:ASN:O	15:AO:26:LYS:HB2	2.11	0.50
15:AO:44:LEU:HD13	15:AO:48:VAL:HG23	1.91	0.50
15:AO:63:ARG:HH12	15:AO:80:PHE:CB	2.24	0.50
15:AO:97:VAL:O	15:AO:98:LEU:CD2	2.60	0.50
18:AR:67:ALA:C	18:AR:71:GLN:NE2	2.70	0.50
20:AT:13:SER:C	20:AT:16:LYS:HZ3	2.14	0.50
20:AT:78:GLU:CG	20:AT:99:ARG:HB3	2.42	0.50
21:AU:85:PRO:C	21:AU:87:GLN:NE2	2.70	0.50
22:AV:32:PRO:HB2	22:AV:34:LYS:CE	2.41	0.50
23:AW:70:LEU:C	23:AW:70:LEU:CD1	2.84	0.50
23:AW:152:ALA:HA	23:AW:155:LEU:HD22	1.93	0.50
25:AY:26:GLU:O	25:AY:29:GLU:CB	2.60	0.50
26:AZ:13:ILE:CG2	26:AZ:14:GLY:N	2.66	0.50
26:AZ:35:ARG:HH12	26:AZ:47:VAL:HG13	1.76	0.50
27:Aa:65:ASP:O	27:Aa:66:SER:C	2.49	0.50
32:Af:23:VAL:HB	32:Af:36:GLN:HG3	1.86	0.50
34:BA:68:G:C5	34:BA:69:G:C8	2.99	0.50
34:BA:116:A:O5'	34:BA:116:A:C8	2.65	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:145:G:C6	34:BA:178:C:C4	2.99	0.50
34:BA:262:A:C4'	53:BX:74:LYS:HG3	2.41	0.50
34:BA:308:C:O2	34:BA:309:G:C8	2.64	0.50
34:BA:404:U:O4'	37:BH:122:ARG:NH1	2.45	0.50
34:BA:440:A:H62	34:BA:493:G:H21	1.58	0.50
34:BA:577:G:N2	34:BA:578:C:C2	2.79	0.50
34:BA:652:U:H2'	34:BA:752:G:H22	1.75	0.50
34:BA:811:C:H5	34:BA:812:C:C2	2.28	0.50
34:BA:828:A:O2'	34:BA:829:G:O5'	2.27	0.50
34:BA:834:C:O2'	34:BA:835:U:O4'	2.28	0.50
34:BA:836:G:C2	34:BA:837:G:C8	2.99	0.50
34:BA:990:C:H2'	34:BA:991:U:N1	2.26	0.50
34:BA:1028(B):C:O2	34:BA:1028(B):C:C2'	2.58	0.50
34:BA:1226:C:H5	46:BQ:104:ARG:HB2	1.66	0.50
34:BA:1234:C:H4'	34:BA:1364:U:C1'	2.38	0.50
34:BA:1284:C:C2	34:BA:1285:A:N7	2.79	0.50
34:BA:1313:U:C4	34:BA:1325:C:O2	2.64	0.50
34:BA:1326:C:H2'	34:BA:1327:C:C6	2.45	0.50
34:BA:1430:C:N3	34:BA:1471:G:C2	2.78	0.50
34:BA:1488:G:C2	34:BA:1489:G:N7	2.80	0.50
34:BA:1494:G:H22	34:BA:1496:C:N4	2.10	0.50
34:BA:1506:U:H6	34:BA:1506:U:P	2.35	0.50
35:BF:28:PHE:CA	35:BF:194:PRO:HG2	2.41	0.50
35:BF:53:ARG:NH1	35:BF:200:ILE:HD12	2.21	0.50
36:BG:12:LEU:HD12	36:BG:18:TRP:CH2	2.46	0.50
36:BG:28:GLN:NE2	36:BG:29:TYR:N	2.60	0.50
36:BG:78:GLY:HA3	36:BG:82:GLU:OE1	2.11	0.50
37:BH:61:LYS:HA	37:BH:203:VAL:HG22	1.93	0.50
37:BH:66:ARG:O	37:BH:68:TYR:N	2.44	0.50
37:BH:110:PHE:HZ	37:BH:147:ALA:CB	2.24	0.50
39:BJ:36:ARG:NH1	39:BJ:36:ARG:CB	2.74	0.50
39:BJ:79:LEU:O	39:BJ:81:ILE:N	2.44	0.50
40:BK:16:LEU:HD12	42:BM:44:VAL:CG2	2.40	0.50
40:BK:79:ARG:HA	40:BK:83:ALA:O	2.11	0.50
41:BL:11:THR:HA	41:BL:14:ARG:NH2	2.25	0.50
41:BL:14:ARG:HH11	41:BL:14:ARG:CA	2.24	0.50
41:BL:110:ALA:HA	41:BL:136:GLU:CB	2.40	0.50
42:BM:5:TYR:CZ	42:BM:18:PHE:CZ	2.99	0.50
42:BM:67:GLY:C	42:BM:73:GLN:NE2	2.69	0.50
42:BM:69:GLY:O	42:BM:70:LYS:C	2.55	0.50
44:BO:79:SER:HA	44:BO:104:GLN:HE21	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:41:ARG:NH1	45:BP:41:ARG:CB	2.70	0.50
45:BP:62:SER:OG	45:BP:64:TYR:CG	2.57	0.50
45:BP:90:VAL:HB	45:BP:96:VAL:CG1	2.42	0.50
46:BQ:25:ILE:HA	46:BQ:29:ARG:HD2	1.92	0.50
47:BR:27:CYS:O	47:BR:40:CYS:SG	2.69	0.50
47:BR:36:PHE:O	47:BR:36:PHE:CD1	2.64	0.50
52:BW:9:VAL:O	52:BW:11:VAL:HG23	2.11	0.50
52:BW:51:VAL:HG23	52:BW:60:VAL:HG23	1.93	0.50
1:AA:24:G:H1'	20:AT:77:ASP:OD1	2.10	0.50
1:AA:30:G:C2'	1:AA:31:C:O4'	2.54	0.50
1:AA:50:U:H3'	1:AA:50:U:C6	2.46	0.50
1:AA:134:C:O5'	1:AA:134:C:H6	1.94	0.50
1:AA:184:C:O2	1:AA:185:U:C5	2.65	0.50
1:AA:200:U:O4	1:AA:201:C:H1'	2.10	0.50
1:AA:458:G:H3'	30:Ad:39:ARG:HD2	1.93	0.50
1:AA:547:A:C6	1:AA:548:A:C6	2.99	0.50
1:AA:563:G:C5	1:AA:2018:G:N1	2.79	0.50
1:AA:569:U:H1'	1:AA:947:G:O4'	2.10	0.50
1:AA:648:G:C2	1:AA:649:G:N7	2.79	0.50
1:AA:751:A:H4'	20:AT:90:ARG:NE	2.26	0.50
1:AA:778:G:N2	1:AA:787:U:H1'	2.26	0.50
1:AA:848:G:C8	1:AA:848:G:H3'	2.46	0.50
1:AA:972:G:H3'	1:AA:973:A:C5'	2.41	0.50
1:AA:991:C:C5	1:AA:1185:C:C4	3.00	0.50
1:AA:1058:G:H1'	10:AJ:116:ASN:CB	2.42	0.50
1:AA:1081:U:H5	1:AA:1082:U:O4	1.95	0.50
1:AA:1305:C:H2'	1:AA:1306:C:C6	2.46	0.50
1:AA:1353:A:O2'	1:AA:1354:A:O4'	2.30	0.50
1:AA:1505:C:O2	1:AA:1505:C:H2'	2.09	0.50
1:AA:1520:U:C3'	1:AA:1520:U:C6	2.92	0.50
1:AA:1532:C:N4	1:AA:1540:G:C2	2.80	0.50
1:AA:1582:C:C2	1:AA:1583:A:N7	2.80	0.50
1:AA:1687:G:H1'	1:AA:1702:G:N2	2.26	0.50
1:AA:1754:C:C5	17:AQ:98:LYS:HD3	2.45	0.50
1:AA:1789:A:H3'	1:AA:1790:C:C4'	2.41	0.50
1:AA:1797:C:O2'	4:AD:257:LEU:HD12	2.11	0.50
1:AA:1897:G:N1	1:AA:1898:U:C2	2.79	0.50
1:AA:1910:G:N1	1:AA:1920:C:C4	2.79	0.50
1:AA:1939:U:O4	1:AA:1967:C:H1'	2.11	0.50
1:AA:1970:A:C2'	1:AA:1971:A:OP2	2.58	0.50
1:AA:2124:G:C2'	3:AC:217:THR: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:2265:U:H2'	1:AA:2265:U:O2	2.10	0.50
1:AA:2296:U:C6	1:AA:2296:U:O5'	2.65	0.50
1:AA:2301:C:C2	1:AA:2302:G:C8	3.00	0.50
1:AA:2336:A:O2'	1:AA:2385:C:O4'	2.29	0.50
1:AA:2458:G:C6	1:AA:2490:G:C2	2.99	0.50
1:AA:2589:A:P	4:AD:226:MET:SD	3.09	0.50
1:AA:2639:A:H2'	1:AA:2640:G:O5'	2.11	0.50
1:AA:2659:G:C5'	1:AA:2660:A:OP2	2.52	0.50
1:AA:2830:G:N3	1:AA:2830:G:H2'	2.26	0.50
2:AB:11:C:OP1	24:AX:75:LEU:HD11	2.11	0.50
2:AB:57:A:C8	2:AB:57:A:C3'	2.94	0.50
2:AB:59:A:N1	2:AB:60:C:H1'	2.27	0.50
2:AB:87:G:C2	2:AB:90:C:C4	3.00	0.50
4:AD:56:GLY:N	4:AD:217:ARG:O	2.44	0.50
4:AD:63:ARG:HH12	4:AD:86:PRO:HD2	1.76	0.50
4:AD:108:PRO:O	4:AD:109:ASP:C	2.54	0.50
4:AD:122:ASP:N	4:AD:135:PHE:HE2	2.08	0.50
5:AE:9:VAL:CG1	17:AQ:3:ARG:HG2	2.42	0.50
5:AE:50:GLY:CA	5:AE:76:ARG:HE	2.24	0.50
5:AE:66:HIS:NE2	5:AE:71:GLY:N	2.59	0.50
5:AE:132:HIS:O	5:AE:133:LYS:CB	2.59	0.50
5:AE:154:LYS:HD2	5:AE:154:LYS:O	2.12	0.50
6:AF:57:VAL:O	6:AF:60:SER:OG	2.29	0.50
6:AF:154:VAL:O	6:AF:174:VAL:HG22	2.11	0.50
7:AG:16:ARG:C	7:AG:20:ILE:HG13	2.36	0.50
7:AG:104:GLU:CG	7:AG:105:LYS:N	2.69	0.50
7:AG:120:LEU:HA	7:AG:181:ARG:CB	2.42	0.50
8:AH:105:LEU:HD12	8:AH:113:VAL:CG1	2.41	0.50
8:AH:121:ILE:HD11	8:AH:123:PHE:HE1	1.73	0.50
8:AH:137:ASP:HB3	8:AH:140:LYS:CG	2.41	0.50
8:AH:161:GLY:C	8:AH:163:TYR:HE1	2.18	0.50
10:AJ:23:VAL:HG13	10:AJ:27:LEU:CD1	2.42	0.50
10:AJ:24:GLY:C	10:AJ:26:ALA:N	2.68	0.50
10:AJ:51:ALA:CB	10:AJ:72:PRO:HB3	2.39	0.50
10:AJ:98:ARG:CZ	10:AJ:101:TRP:CD1	2.94	0.50
11:AK:12:ARG:O	11:AK:12:ARG:CD	2.55	0.50
11:AK:67:LEU:N	11:AK:69:GLN:OE1	2.45	0.50
12:AL:12:ASP:OD1	12:AL:12:ASP:N	2.43	0.50
12:AL:18:LYS:HZ3	12:AL:44:LYS:HZ3	1.59	0.50
12:AL:37:ASP:HB2	12:AL:61:VAL:HG21	1.94	0.50
12:AL:70:LYS:HD3	12:AL:107:ARG:HH12	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:70:LYS:HZ1	12:AL:102:VAL:HG13	1.75	0.50
13:AM:58:THR:HG23	31:Ae:13:ARG:H	1.76	0.50
13:AM:72:PRO:HA	13:AM:110:TYR:CE2	2.45	0.50
13:AM:88:LEU:CD2	13:AM:124:LYS:HZ1	2.25	0.50
13:AM:115:LEU:O	13:AM:117:GLU:OE2	2.28	0.50
13:AM:122:PRO:CG	13:AM:138:LEU:N	2.74	0.50
13:AM:130:PHE:HE2	13:AM:145:PRO:HB3	1.77	0.50
14:AN:127:ILE:HD13	14:AN:129:THR:HG23	1.92	0.50
16:AP:69:VAL:HG13	16:AP:73:LEU:HD11	1.92	0.50
16:AP:106:ARG:HD3	16:AP:107:GLU:CD	2.35	0.50
17:AQ:93:ARG:N	17:AQ:93:ARG:CD	2.74	0.50
17:AQ:103:ARG:O	17:AQ:105:LEU:C	2.55	0.50
18:AR:43:GLY:C	18:AR:45:TYR:N	2.68	0.50
18:AR:54:LYS:HE2	18:AR:54:LYS:HA	1.92	0.50
18:AR:61:TRP:CE3	18:AR:93:LYS:NZ	2.77	0.50
18:AR:94:ASN:O	18:AR:97:ASP:N	2.44	0.50
18:AR:102:GLU:O	18:AR:105:VAL:CB	2.59	0.50
19:AS:83:ARG:HH21	19:AS:85:LYS:HE2	1.76	0.50
20:AT:74:ALA:HB1	20:AT:105:VAL:CA	2.40	0.50
22:AV:15:VAL:HG12	22:AV:16:ALA:H	1.77	0.50
22:AV:70:SER:O	22:AV:71:LYS:O	2.30	0.50
23:AW:102:LEU:HG	23:AW:125:LEU:CD1	2.42	0.50
24:AX:22:GLY:C	24:AX:38:VAL:HG13	2.37	0.50
26:AZ:31:LEU:HB3	26:AZ:32:GLN:HE22	1.74	0.50
27:Aa:56:VAL:CG1	27:Aa:57:GLU:H	2.09	0.50
28:Ab:8:LYS:C	28:Ab:9:LYS:HG3	2.36	0.50
28:Ab:34:PRO:HB3	28:Ab:40:LYS:NZ	2.26	0.50
29:Ac:48:VAL:HG22	29:Ac:49:HIS:N	2.25	0.50
30:Ad:5:TRP:CE3	30:Ad:5:TRP:CA	2.94	0.50
30:Ad:10:ARG:HD3	30:Ad:14:LYS:NZ	2.27	0.50
33:Ag:290:UNK:N	33:Ag:343:UNK:CB	2.74	0.50
34:BA:5:U:O2'	34:BA:6:G:P	2.69	0.50
34:BA:136:C:H2'	34:BA:137:C:C6	2.46	0.50
34:BA:181:G:C2'	34:BA:182:U:OP2	2.59	0.50
34:BA:226:G:O2'	34:BA:227:G:C5'	2.59	0.50
34:BA:294:U:C2	34:BA:295:C:C5	2.99	0.50
34:BA:393:A:C6	34:BA:394:G:N7	2.80	0.50
34:BA:579:G:C6	34:BA:580:U:C5	3.00	0.50
34:BA:606:G:N2	34:BA:631:G:N3	2.59	0.50
34:BA:924:C:H2'	34:BA:925:G:C8	2.47	0.50
34:BA:947:G:H21	34:BA:948:C:H1'	1.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:973:G:N1	34:BA:974:A:C5	2.78	0.50
34:BA:978:A:C6	34:BA:1318:A:N6	2.79	0.50
34:BA:1048:G:H1'	34:BA:1215:G:H5'	1.92	0.50
34:BA:1081:G:OP2	38:BI:27:ARG:HD2	2.11	0.50
34:BA:1107:C:P	36:BG:172:ARG:HH11	2.33	0.50
34:BA:1115:C:O2	34:BA:1186:G:C5	2.65	0.50
34:BA:1164:G:C5	34:BA:1173:G:N1	2.78	0.50
34:BA:1204:A:C2'	34:BA:1205:U:H5'	2.41	0.50
34:BA:1224:G:O6	34:BA:1322:C:C1'	2.59	0.50
56:BA:1601:NMY:H232	56:BA:1601:NMY:O18	2.10	0.50
35:BF:92:TYR:CE2	35:BF:151:GLY:O	2.63	0.50
36:BG:132:ARG:C	36:BG:136:GLN:NE2	2.69	0.50
37:BH:88:VAL:HG13	38:BI:97:GLY:HA3	1.93	0.50
37:BH:128:VAL:N	37:BH:146:ILE:HG22	2.25	0.50
38:BI:37:ARG:HG2	38:BI:112:LEU:O	2.11	0.50
38:BI:71:LEU:HG	38:BI:72:GLN:H	1.76	0.50
41:BL:84:ARG:C	41:BL:135:CYS:HG	2.19	0.50
41:BL:89:PRO:CB	41:BL:92:ARG:HH21	2.23	0.50
41:BL:119:LEU:N	41:BL:119:LEU:CD2	2.72	0.50
42:BM:23:ASN:HD22	42:BM:24:GLY:N	2.09	0.50
42:BM:45:ALA:O	42:BM:78:LYS:CB	2.58	0.50
44:BO:73:MET:C	44:BO:75:TYR:H	2.18	0.50
44:BO:78:GLN:CD	44:BO:78:GLN:N	2.66	0.50
45:BP:46:LYS:HZ3	45:BP:94:PRO:CG	2.24	0.50
46:BQ:86:CYS:SG	46:BQ:87:TYR:N	2.85	0.50
48:BS:17:ARG:NH1	48:BS:77:ARG:CD	2.70	0.50
48:BS:79:ARG:NH1	48:BS:79:ARG:CB	2.74	0.50
49:BT:75:ARG:O	49:BT:76:GLN:C	2.54	0.50
50:BU:29:HIS:CE1	50:BU:31:LEU:HB3	2.46	0.50
50:BU:45:HIS:ND1	50:BU:46:ASP:N	2.60	0.50
50:BU:60:ILE:O	50:BU:62:SER:OG	2.26	0.50
51:BV:40:LEU:O	51:BV:41:LYS:C	2.54	0.50
51:BV:49:LYS:H	51:BV:49:LYS:CE	2.20	0.50
51:BV:81:PHE:O	51:BV:82:THR:CB	2.59	0.50
52:BW:11:VAL:CG1	52:BW:15:LEU:HD12	2.39	0.50
55:CA:488:LEU:HG	55:CA:526:ILE:CA	2.40	0.50
1:AA:66:C:C4	1:AA:89:G:N1	2.80	0.50
1:AA:120:U:C2'	1:AA:149:A:N3	2.75	0.50
1:AA:141(A):C:C2'	1:AA:142:G:H5'	2.41	0.50
1:AA:247:G:O3'	1:AA:386:G:N2	2.44	0.50
1:AA:270(X):G:N3	1:AA:270(Y):G:H4'	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:270(Z):U:H3	1:AA:271(C):U:H1'	1.73	0.50
1:AA:283:A:H2'	1:AA:284:U:H5'	1.93	0.50
1:AA:311:A:C2	1:AA:328:U:O4	2.64	0.50
1:AA:386:G:N3	1:AA:386:G:C2'	2.72	0.50
1:AA:389:G:H8	1:AA:389:G:OP1	1.95	0.50
1:AA:403:U:H4'	1:AA:404:C:OP1	2.11	0.50
1:AA:455:C:C5'	1:AA:456:C:OP1	2.60	0.50
1:AA:463:G:O3'	1:AA:464:U:H5	1.95	0.50
1:AA:487:C:C6	1:AA:487:C:C3'	2.93	0.50
1:AA:532:A:P	1:AA:2021:C:N4	2.84	0.50
1:AA:564:C:HO2'	1:AA:1252:G:H1	1.60	0.50
1:AA:568:U:H3'	1:AA:570:G:OP2	2.10	0.50
1:AA:609:A:C8	1:AA:609(A):G:N7	2.79	0.50
1:AA:646:A:H2'	1:AA:647:G:C8	2.47	0.50
1:AA:678:C:C2	1:AA:679:C:C6	3.00	0.50
1:AA:731:C:H2'	1:AA:732:C:C5'	2.41	0.50
1:AA:746:A:N7	1:AA:2612:C:OP1	2.44	0.50
1:AA:750:A:H2'	20:AT:90:ARG:NH2	2.26	0.50
1:AA:799:G:C6	1:AA:800:A:N1	2.80	0.50
1:AA:823:G:H5'	1:AA:824:A:OP2	2.12	0.50
1:AA:978:G:C2	1:AA:979:G:C2	3.00	0.50
1:AA:1103:A:OP2	1:AA:1104:C:C6	2.65	0.50
1:AA:1120:G:H2'	1:AA:1121:C:H6	1.77	0.50
1:AA:1157:G:OP2	1:AA:1158:C:OP2	2.30	0.50
1:AA:1197:G:N7	1:AA:1198:U:C5	2.80	0.50
1:AA:1265:A:O5'	1:AA:1267:U:O2	2.28	0.50
1:AA:1273:U:H4'	1:AA:1275:A:OP1	2.09	0.50
1:AA:1313:U:H2'	1:AA:1314:C:C5	2.45	0.50
1:AA:1331:A:O2'	1:AA:1332:G:C8	2.65	0.50
1:AA:1444(A):A:N7	1:AA:1460:A:H2'	2.27	0.50
1:AA:1471:A:N7	1:AA:1521:G:N2	2.59	0.50
1:AA:1528:A:H3'	1:AA:1529:A:O4'	2.11	0.50
1:AA:1559:G:N3	1:AA:1559:G:C2'	2.73	0.50
1:AA:1689:A:C6	1:AA:1698:A:H2	2.27	0.50
1:AA:1703:G:O2'	34:BA:1429:C:C5'	2.58	0.50
1:AA:1753:G:O6	1:AA:1756:G:C6	2.64	0.50
1:AA:1803:A:O3'	4:AD:257:LEU:HD13	2.10	0.50
1:AA:1833:U:O2	1:AA:1834:U:O2	2.28	0.50
1:AA:1948:G:C4	1:AA:1959:G:C2	2.99	0.50
1:AA:2029:G:O6	1:AA:2033:A:OP1	2.30	0.50
1:AA:2102:U:C4	1:AA:2103:C:N4	2.80	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2210:G:O6	4:AD:70:TRP:CZ3	2.64	0.50
1:AA:2257:U:H5'	24:AX:11:ARG:HD3	1.92	0.50
1:AA:2323:G:N2	1:AA:2324:C:C2	2.79	0.50
1:AA:2343:C:O2	1:AA:2344:U:C6	2.65	0.50
1:AA:2376:A:OP1	1:AA:2376:A:C8	2.61	0.50
1:AA:2512:C:H2'	1:AA:2513:G:C4'	2.41	0.50
1:AA:2572:A:H3'	5:AE:144:ARG:NH1	2.26	0.50
1:AA:2603:G:C6	1:AA:2604:U:C4	3.00	0.50
1:AA:2687:U:O2	1:AA:2688:U:C6	2.59	0.50
1:AA:2695:C:H2'	1:AA:2696:U:C6	2.45	0.50
3:AC:21:THR:HG1	3:AC:24:GLU:CD	2.19	0.50
3:AC:22:ILE:HG12	3:AC:224:ILE:HD12	1.94	0.50
3:AC:38:ASP:O	3:AC:39:GLU:O	2.30	0.50
3:AC:77:ILE:HD12	3:AC:123:VAL:HG11	1.93	0.50
3:AC:163:PHE:HZ	3:AC:195:ALA:HB3	1.75	0.50
4:AD:10:THR:H	4:AD:23:GLU:CD	2.14	0.50
4:AD:29:PRO:C	4:AD:31:LYS:H	2.18	0.50
4:AD:146:GLU:HA	4:AD:154:LYS:CG	2.41	0.50
4:AD:146:GLU:HG3	4:AD:152:GLY:O	2.10	0.50
4:AD:205:VAL:O	4:AD:205:VAL:HG13	2.11	0.50
4:AD:208:LYS:HZ3	4:AD:211:ARG:NH2	2.09	0.50
5:AE:85:ASN:N	5:AE:85:ASN:ND2	2.56	0.50
6:AF:74:ARG:CZ	6:AF:75:HIS:N	2.69	0.50
7:AG:47:LYS:HZ3	7:AG:73:ALA:HB3	1.76	0.50
7:AG:91:ARG:CB	7:AG:91:ARG:NH1	2.64	0.50
7:AG:115:ARG:O	7:AG:117:PHE:N	2.45	0.50
8:AH:107:VAL:O	8:AH:107:VAL:CG2	2.54	0.50
8:AH:114:VAL:O	8:AH:114:VAL:HG13	2.11	0.50
10:AJ:4:VAL:HG22	33:Ag:333:UNK:CB	2.40	0.50
12:AL:38:VAL:C	12:AL:39:ILE:HG23	2.36	0.50
12:AL:77:ILE:CG2	17:AQ:75:ILE:HD12	2.33	0.50
13:AM:76:LYS:HE2	13:AM:81:GLN:CD	2.37	0.50
13:AM:80:TYR:CE2	13:AM:85:LEU:HD22	2.46	0.50
13:AM:84:ASN:O	13:AM:85:LEU:CG	2.60	0.50
14:AN:11:LYS:HD3	14:AN:16:ARG:HH21	1.76	0.50
16:AP:59:LYS:HD3	16:AP:59:LYS:N	2.26	0.50
16:AP:106:ARG:NH1	16:AP:106:ARG:O	2.44	0.50
17:AQ:54:ARG:HE	17:AQ:100:TYR:HD2	1.59	0.50
18:AR:96:ALA:O	18:AR:100:VAL:HG23	2.12	0.50
18:AR:111:GLU:HG3	18:AR:112:ARG:H	1.77	0.50
19:AS:4:ILE:HA	19:AS:12:TYR:CE2	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:15:GLU:O	19:AS:98:GLU:CD	2.55	0.50
19:AS:70:ILE:HG23	19:AS:90:PRO:CA	2.37	0.50
20:AT:50:VAL:HG21	20:AT:103:ILE:HG13	1.94	0.50
20:AT:74:ALA:O	20:AT:75:TYR:CD1	2.64	0.50
22:AV:17:SER:OG	22:AV:19:LYS:HE3	2.11	0.50
22:AV:45:VAL:HA	22:AV:57:GLN:CG	2.41	0.50
23:AW:95:PRO:N	23:AW:130:PRO:HA	2.26	0.50
25:AY:23:LYS:O	25:AY:26:GLU:CB	2.52	0.50
26:AZ:5:LYS:HE2	26:AZ:57:GLU:HB2	1.94	0.50
26:AZ:6:VAL:HA	26:AZ:55:ARG:O	2.12	0.50
27:Aa:38:LYS:HG2	27:Aa:40:HIS:ND1	2.26	0.50
31:Ae:16:ILE:CG2	31:Ae:57:ARG:HH22	2.24	0.50
34:BA:375:U:O3'	49:BT:6:LEU:CD2	2.52	0.50
34:BA:380:G:N2	34:BA:383:A:OP2	2.44	0.50
34:BA:411:A:C5	34:BA:429:U:C4	2.99	0.50
34:BA:420:U:HO2'	34:BA:421:U:H5	1.59	0.50
34:BA:438:G:H5''	37:BH:123:HIS:HB3	1.92	0.50
34:BA:446:G:O2'	34:BA:447:G:H5'	2.11	0.50
34:BA:485:G:O2'	34:BA:486:U:H6	1.93	0.50
34:BA:607:A:N1	49:BT:31:LYS:HG3	2.27	0.50
34:BA:668:G:H1'	48:BS:46:HIS:NE2	2.27	0.50
34:BA:688:G:C6	34:BA:700:G:C6	2.99	0.50
34:BA:750:G:H1'	48:BS:23:GLY:CA	2.42	0.50
34:BA:826:C:H5'	41:BL:12:ARG:CZ	2.41	0.50
34:BA:848:C:N3	34:BA:849:C:C5	2.79	0.50
34:BA:924:C:O2'	34:BA:925:G:H5'	2.10	0.50
34:BA:1099:G:HO2'	34:BA:1542:U:H4'	1.73	0.50
34:BA:1129:C:C4	34:BA:1139:G:C6	3.00	0.50
34:BA:1198:G:O2'	34:BA:1199:U:H5'	2.11	0.50
34:BA:1419:G:O2'	34:BA:1420:C:C5'	2.60	0.50
34:BA:1419:G:O6	34:BA:1482:G:N1	2.44	0.50
35:BF:7:VAL:CG2	35:BF:8:LYS:H	2.21	0.50
35:BF:25:ASN:HD21	35:BF:27:LYS:CG	2.23	0.50
35:BF:59:GLU:O	35:BF:62:ALA:HB3	2.11	0.50
35:BF:88:ALA:HA	35:BF:222:ILE:HD11	1.93	0.50
35:BF:97:TRP:CZ3	35:BF:172:ILE:HB	2.46	0.50
35:BF:163:PHE:CE1	35:BF:186:ALA:CA	2.94	0.50
36:BG:6:HIS:NE2	36:BG:8:ILE:HB	2.26	0.50
36:BG:47:LEU:HD22	36:BG:47:LEU:N	2.27	0.50
37:BH:30:LYS:HG2	37:BH:35:ARG:CD	2.40	0.50
37:BH:79:PHE:CG	37:BH:80:GLU:N	2.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:139:ARG:CG	37:BH:140:VAL:N	2.74	0.50
37:BH:173:TRP:CD1	37:BH:189:PRO:CB	2.91	0.50
37:BH:187:ARG:CD	37:BH:188:LEU:H	2.24	0.50
40:BK:155:ARG:C	40:BK:156:TRP:HE3	2.19	0.50
41:BL:122:ARG:HD3	41:BL:122:ARG:H	1.76	0.50
42:BM:3:GLN:HG3	42:BM:20:ARG:CG	2.41	0.50
42:BM:49:PRO:HB3	42:BM:101:PHE:CZ	2.46	0.50
43:BN:5:ARG:NH2	43:BN:73:ASP:OD2	2.43	0.50
44:BO:51:LYS:HD3	44:BO:52:GLY:N	2.24	0.50
44:BO:63:LEU:HA	44:BO:66:LEU:CD1	2.41	0.50
44:BO:70:LYS:HD2	44:BO:70:LYS:H	1.77	0.50
44:BO:121:PRO:HB2	44:BO:125:PHE:HD1	1.75	0.50
49:BT:57:ARG:HA	49:BT:60:LEU:HD12	1.92	0.50
55:CA:6:ARG:HG3	55:CA:67:ASP:HB2	1.93	0.50
55:CA:383:SER:CB	55:CA:384:ARG:CA	2.88	0.50
55:CA:386:LYS:CD	55:CA:574:ASP:OD2	2.60	0.50
55:CA:461:GLY:O	55:CA:463:GLY:N	2.44	0.50
1:AA:6:A:C6	1:AA:2898:U:C6	2.67	0.50
1:AA:10:G:C2	1:AA:2629:A:N3	2.80	0.50
1:AA:10:G:O2'	1:AA:11:G:O4'	2.23	0.50
1:AA:59:U:C3'	1:AA:60:G:H5''	2.40	0.50
1:AA:60:G:O2'	1:AA:61:G:P	2.70	0.50
1:AA:215:G:O4'	1:AA:216:A:H4'	2.11	0.50
1:AA:375:C:H2'	1:AA:375:C:O2	2.10	0.50
1:AA:448:U:O2	1:AA:448:U:C2'	2.53	0.50
1:AA:502:A:C8	1:AA:502:A:C3'	2.92	0.50
1:AA:566:U:H3'	1:AA:567:A:H8	1.77	0.50
1:AA:588:U:C1'	6:AF:90:PHE:CD2	2.94	0.50
1:AA:602:G:O2'	1:AA:603:A:OP2	2.24	0.50
1:AA:714:U:O2	1:AA:715:G:C8	2.64	0.50
1:AA:730:C:OP2	1:AA:763:G:OP1	2.29	0.50
1:AA:733:G:H5''	1:AA:761:A:H61	1.76	0.50
1:AA:795:C:C2	1:AA:796:C:C5	2.99	0.50
1:AA:963:U:H2'	1:AA:963:U:O2	2.11	0.50
1:AA:997:G:H2'	1:AA:998:C:C6	2.47	0.50
1:AA:1005:C:H2'	1:AA:1006:C:C6	2.27	0.50
1:AA:1066:U:O2'	1:AA:1068:G:H3'	2.11	0.50
1:AA:1068:G:C1'	1:AA:1096:A:C4'	2.87	0.50
1:AA:1125:G:H5''	32:Af:4:ARG:HD2	1.94	0.50
1:AA:1128:A:C6	1:AA:1129:A:N1	2.79	0.50
1:AA:1210:A:C1'	1:AA:1212:G:N2	2.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1224:G:N7	1:AA:1225:C:C5	2.79	0.50
1:AA:1227:A:H2'	1:AA:1228:G:C5'	2.41	0.50
1:AA:1228:G:H5'	1:AA:1228:G:H8	1.76	0.50
1:AA:1265:A:P	1:AA:2615:U:OP1	2.69	0.50
1:AA:1308:A:N3	1:AA:1309:G:C1'	2.73	0.50
1:AA:1308:A:H61	1:AA:1606:G:H1'	1.76	0.50
1:AA:1540:G:C3'	1:AA:1541:U:H5'	2.41	0.50
1:AA:1619:G:C2	1:AA:1620:G:C4	2.99	0.50
1:AA:1690:A:N1	1:AA:1691:C:H1'	2.27	0.50
1:AA:1807:G:C2	1:AA:1809:A:OP2	2.64	0.50
1:AA:1825:A:O2'	4:AD:252:TRP:CZ3	2.64	0.50
1:AA:1859:A:H61	1:AA:1883:G:C2'	2.23	0.50
1:AA:1968:G:O2'	1:AA:1969:A:H8	1.95	0.50
1:AA:2048:G:H2'	1:AA:2049:G:O5'	2.12	0.50
1:AA:2211:G:OP1	1:AA:2212:A:C5'	2.59	0.50
1:AA:2244:U:C1'	1:AA:2434:A:C6	2.89	0.50
1:AA:2420:C:H5''	31:Ae:35:GLN:NE2	2.25	0.50
1:AA:2424:C:C5'	1:AA:2425:A:H5'	2.42	0.50
1:AA:2431:U:O2'	1:AA:2432:A:C8	2.65	0.50
1:AA:2497:A:O2'	1:AA:2498:C:P	2.67	0.50
1:AA:2521:C:C5	1:AA:2522:U:C5	2.99	0.50
1:AA:2711:A:N6	1:AA:2714:G:C6	2.79	0.50
1:AA:2746:U:C4	1:AA:2756:U:C5	2.98	0.50
1:AA:2867:G:H5'	1:AA:2868:A:OP1	2.11	0.50
1:AA:2876:G:OP1	17:AQ:2:ASN:HB2	2.11	0.50
1:AA:2887:U:C2	1:AA:2888:C:C5	2.99	0.50
2:AB:60:C:H2'	2:AB:61:G:C8	2.47	0.50
4:AD:85:ASP:C	4:AD:87:ASN:HD22	2.20	0.50
4:AD:106:ILE:HG13	4:AD:108:PRO:CD	2.37	0.50
4:AD:172:TYR:CE1	4:AD:186:HIS:CD2	3.00	0.50
4:AD:231:HIS:O	4:AD:233:HIS:N	2.44	0.50
5:AE:8:LYS:HG3	17:AQ:6:LEU:HD11	1.92	0.50
5:AE:92:THR:HG23	5:AE:95:ILE:HG22	1.93	0.50
5:AE:148:GLY:O	5:AE:149:ARG:HB3	2.12	0.50
7:AG:20:ILE:HD12	7:AG:28:VAL:CG1	2.40	0.50
8:AH:159:GLU:HG2	8:AH:163:TYR:OH	2.11	0.50
10:AJ:17:ALA:O	10:AJ:41:PHE:HB2	2.12	0.50
10:AJ:40:ALA:C	10:AJ:66:THR:OG1	2.55	0.50
10:AJ:108:ALA:HA	10:AJ:109:LYS:CB	2.41	0.50
10:AJ:134:MET:C	10:AJ:134:MET:SD	2.95	0.50
12:AL:8:LEU:CD2	12:AL:81:ASP:O	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:97:PRO:O	13:AM:98:GLU:C	2.53	0.50
13:AM:108:LYS:HD3	13:AM:109:GLY:N	2.20	0.50
13:AM:108:LYS:CD	13:AM:109:GLY:N	2.73	0.50
14:AN:75:THR:C	14:AN:77:LYS:HD2	2.36	0.50
15:AO:4:LEU:O	15:AO:6:SER:N	2.45	0.50
15:AO:13:HIS:HB3	15:AO:16:HIS:HD2	1.66	0.50
16:AP:38:GLN:HG3	16:AP:38:GLN:O	2.11	0.50
17:AQ:53:ARG:NH2	17:AQ:102:ILE:N	2.57	0.50
17:AQ:63:VAL:C	17:AQ:64:ARG:NH1	2.69	0.50
18:AR:46:ALA:CA	18:AR:49:HIS:ND1	2.75	0.50
18:AR:52:ARG:O	18:AR:53:ARG:C	2.53	0.50
19:AS:20:LEU:HB2	19:AS:93:GLU:OE2	2.12	0.50
23:AW:10:ARG:HD3	23:AW:36:LYS:CG	2.42	0.50
23:AW:91:LEU:CD1	23:AW:95:PRO:HG3	2.41	0.50
26:AZ:41:PRO:HA	26:AZ:44:ARG:HE	1.76	0.50
28:Ab:15:ARG:O	28:Ab:16:ARG:C	2.54	0.50
29:Ac:25:LYS:O	29:Ac:26:ASN:CG	2.54	0.50
31:Ae:9:GLY:O	31:Ae:14:VAL:CB	2.59	0.50
34:BA:49:U:C4	34:BA:361:G:C2	3.00	0.50
34:BA:56:U:H2'	34:BA:57:G:C8	2.44	0.50
34:BA:85:U:O2'	34:BA:86:U:H5'	2.11	0.50
34:BA:96:G:C5	34:BA:97:U:C4	2.99	0.50
34:BA:186:C:H2'	34:BA:186(A):C:C6	2.44	0.50
34:BA:191(D):U:O2'	34:BA:191(E):G:H5'	2.11	0.50
34:BA:254:G:C6	34:BA:273:A:C6	3.00	0.50
34:BA:258:G:C6	34:BA:259:G:O6	2.65	0.50
34:BA:429:U:H4'	34:BA:430:A:C5'	2.41	0.50
34:BA:484:G:C8	34:BA:486:U:C4	3.00	0.50
34:BA:595:G:N7	34:BA:641:U:N3	2.59	0.50
34:BA:611:A:H2'	34:BA:612:C:C6	2.46	0.50
34:BA:797:C:C2'	34:BA:798:G:H5'	2.41	0.50
34:BA:957:U:O2	34:BA:959:A:C8	2.64	0.50
34:BA:957:U:H1'	34:BA:960:U:H5	1.76	0.50
34:BA:1009:G:N2	34:BA:1010:G:H1'	2.27	0.50
34:BA:1065:U:C2'	34:BA:1066:C:OP2	2.59	0.50
34:BA:1365:G:N1	34:BA:1366:C:C4	2.80	0.50
34:BA:1430:C:O2'	34:BA:1431:C:C5'	2.59	0.50
35:BF:58:ILE:O	35:BF:61:LEU:CB	2.59	0.50
35:BF:167:PRO:CG	35:BF:168:THR:H	2.21	0.50
35:BF:179:LYS:C	35:BF:181:PHE:H	2.18	0.50
37:BH:169:LYS:HA	37:BH:176:LEU:CD1	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:95:GLU:N	39:BJ:95:GLU:CD	2.69	0.50
40:BK:17:VAL:O	40:BK:17:VAL:HG13	2.12	0.50
40:BK:69:VAL:CA	40:BK:135:VAL:HG22	2.42	0.50
40:BK:75:VAL:HG22	40:BK:88:PRO:CB	2.42	0.50
40:BK:79:ARG:NE	40:BK:84:ASN:HB3	2.27	0.50
40:BK:125:MET:O	40:BK:126:ASP:C	2.52	0.50
41:BL:75:ARG:CZ	41:BL:75:ARG:CB	2.79	0.50
41:BL:92:ARG:HH11	41:BL:92:ARG:CG	2.20	0.50
44:BO:43:SER:HB3	44:BO:64:ALA:HB1	1.91	0.50
44:BO:90:GLY:C	44:BO:92:GLU:N	2.67	0.50
44:BO:110:ASP:HB3	51:BV:85:LEU:HB3	1.92	0.50
48:BS:46:HIS:O	48:BS:47:LYS:HB2	2.11	0.50
50:BU:28:PRO:CB	50:BU:33:GLY:O	2.59	0.50
50:BU:63:ARG:CG	50:BU:64:PRO:HD2	2.38	0.50
51:BV:38:GLU:HG2	51:BV:39:VAL:H	1.77	0.50
51:BV:41:LYS:HA	51:BV:44:LEU:HD23	1.93	0.50
51:BV:56:THR:O	51:BV:57:GLY:C	2.53	0.50
55:CA:27:GLN:CD	55:CA:183:MET:HG2	2.17	0.50
55:CA:67:ASP:N	55:CA:68:TYR:CA	2.73	0.50
55:CA:426:LEU:CG	55:CA:441:TYR:CZ	2.94	0.50
55:CA:601:ASN:CA	55:CA:602:ARG:HB2	2.42	0.50
1:AA:71:A:C3'	1:AA:72:U:H5''	2.40	0.50
1:AA:135:G:H2'	1:AA:136:G:O4'	2.10	0.50
1:AA:147:U:N3	1:AA:148:C:N4	2.60	0.50
1:AA:327:G:N2	1:AA:328:U:C2	2.79	0.50
1:AA:377:C:H2'	1:AA:378:C:C6	2.47	0.50
1:AA:422:A:N1	1:AA:423:A:C2	2.80	0.50
1:AA:503:A:H2	1:AA:506:G:C2	2.30	0.50
1:AA:558:G:C2'	1:AA:559:G:C5'	2.90	0.50
1:AA:563:G:N2	1:AA:578:A:C2	2.69	0.50
1:AA:570:G:N1	1:AA:2498:C:C4'	2.59	0.50
1:AA:632:A:C2	1:AA:633:A:C4	3.00	0.50
1:AA:715:G:H2'	1:AA:716:A:O5'	2.11	0.50
1:AA:724:U:C2	1:AA:725:G:C8	3.00	0.50
1:AA:730:C:C2'	1:AA:731:C:H5'	2.42	0.50
1:AA:734:A:C2	1:AA:735:A:N9	2.80	0.50
1:AA:740:U:H2'	1:AA:741:G:H8	1.77	0.50
1:AA:964:C:C2'	1:AA:965:C:O5'	2.60	0.50
1:AA:1008:C:H6	1:AA:1008:C:OP1	1.95	0.50
1:AA:1047:G:H2'	1:AA:1047:G:N3	2.20	0.50
1:AA:1106:G:O5'	1:AA:1106:G:H8	1.84	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1231:G:C4	1:AA:1232:G:C8	3.00	0.50
1:AA:1338:G:H21	1:AA:1393:A:H2	1.54	0.50
1:AA:1364:G:C2	1:AA:1368:G:C5	2.99	0.50
1:AA:1477:A:OP2	1:AA:1477:A:C8	2.64	0.50
1:AA:1544:C:O2'	1:AA:1545:A:O4'	2.30	0.50
1:AA:1544:C:H2'	1:AA:1545:A:O4'	2.12	0.50
1:AA:1617:C:O2	1:AA:1617:C:C2'	2.48	0.50
1:AA:1620:G:H2'	1:AA:1621:U:C6	2.46	0.50
1:AA:1638:C:H4'	1:AA:2710:C:H1'	1.94	0.50
1:AA:1663:C:O2'	1:AA:1664:A:O4'	2.24	0.50
1:AA:1672:C:N4	1:AA:1673:U:C5	2.79	0.50
1:AA:1683:C:O5'	1:AA:1683:C:H6	1.93	0.50
1:AA:1754:C:C2	1:AA:1755:A:C1'	2.93	0.50
1:AA:1789:A:N7	1:AA:1790:C:C5	2.79	0.50
1:AA:1831:G:H2'	1:AA:1832:C:C6	2.47	0.50
1:AA:1889:A:C2	1:AA:2234:G:H1'	2.47	0.50
1:AA:1910:G:N2	1:AA:1911:U:H3	2.09	0.50
1:AA:1957:C:O2	1:AA:1958:C:C5	2.64	0.50
1:AA:1997:G:H5'	5:AE:123:ALA:HB3	1.93	0.50
1:AA:2007:C:N3	1:AA:2008:C:C5	2.80	0.50
1:AA:2158:A:O2'	1:AA:2159:G:P	2.70	0.50
1:AA:2277:G:C6	1:AA:2278:A:N7	2.79	0.50
1:AA:2325:G:O2'	1:AA:2326:C:H5'	2.12	0.50
1:AA:2356:C:C4	1:AA:2357:U:O4	2.64	0.50
1:AA:2441:C:H2'	1:AA:2442:C:C6	2.47	0.50
1:AA:2483:C:O2	1:AA:2483:C:H2'	2.10	0.50
2:AB:8:U:C2	2:AB:9:G:H8	2.29	0.50
2:AB:47:C:H6	2:AB:47:C:O5'	1.93	0.50
2:AB:47:C:C2'	2:AB:48:A:H5'	2.42	0.50
2:AB:66:A:N1	2:AB:107:U:H2'	2.26	0.50
2:AB:79:C:H2'	2:AB:80:U:C5'	2.41	0.50
3:AC:22:ILE:CG2	3:AC:186:ALA:HA	2.41	0.50
3:AC:34:THR:O	3:AC:35:ALA:O	2.30	0.50
3:AC:82:LYS:CG	3:AC:116:THR:HG21	2.40	0.50
3:AC:89:ALA:O	3:AC:157:LYS:HE2	2.12	0.50
3:AC:127:LEU:HA	3:AC:130:ILE:HD13	1.93	0.50
3:AC:134:ARG:HB2	3:AC:136:LEU:HG	1.93	0.50
5:AE:4:ILE:HG23	5:AE:30:PRO:HG3	1.91	0.50
5:AE:91:VAL:HG11	5:AE:93:VAL:CG2	2.37	0.50
6:AF:153:SER:OG	6:AF:190:GLU:CG	2.56	0.50
6:AF:178:PRO:O	6:AF:180:GLY:N	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:86:MET:N	7:AG:87:PRO:CD	2.72	0.50
7:AG:104:GLU:HG3	7:AG:105:LYS:H	1.74	0.50
8:AH:20:ALA:HB1	8:AH:21:PRO:CD	2.42	0.50
10:AJ:122:ALA:HB1	10:AJ:126:MET:SD	2.51	0.50
11:AK:2:LYS:N	18:AR:61:TRP:CH2	2.80	0.50
12:AL:107:ARG:O	12:AL:108:GLU:C	2.53	0.50
13:AM:16:ARG:HG2	13:AM:19:VAL:CG1	2.39	0.50
13:AM:16:ARG:HG3	13:AM:19:VAL:HG22	1.92	0.50
14:AN:11:LYS:HZ3	14:AN:73:PRO:HB3	1.77	0.50
14:AN:122:GLY:CA	14:AN:125:LEU:HG	2.41	0.50
15:AO:20:LEU:HD21	15:AO:24:GLN:CD	2.35	0.50
15:AO:75:LEU:O	15:AO:78:LYS:HB3	2.11	0.50
15:AO:93:GLY:O	15:AO:95:THR:N	2.45	0.50
16:AP:76:LYS:HD3	16:AP:77:ALA:H	1.77	0.50
17:AQ:64:ARG:HH11	17:AQ:64:ARG:N	2.08	0.50
19:AS:2:PHE:O	19:AS:43:GLU:OE1	2.30	0.50
20:AT:10:VAL:HB	20:AT:12:ILE:CD1	2.41	0.50
22:AV:40:GLU:N	22:AV:62:GLU:OE2	2.44	0.50
22:AV:105:ALA:C	22:AV:107:ASP:H	2.20	0.50
23:AW:62:PRO:O	23:AW:64:GLY:N	2.41	0.50
23:AW:78:LYS:CE	23:AW:84:GLU:OE2	2.55	0.50
23:AW:99:TYR:CZ	23:AW:124:ILE:HB	2.46	0.50
26:AZ:26:LEU:HD13	26:AZ:26:LEU:N	2.26	0.50
31:Ae:30:ARG:HG2	31:Ae:31:HIS:N	2.24	0.50
34:BA:122:G:C2	34:BA:123:C:H1'	2.47	0.50
34:BA:126:G:C6	34:BA:236:G:O6	2.65	0.50
34:BA:138:G:N2	34:BA:226:G:C1'	2.74	0.50
34:BA:393:A:H2'	34:BA:394:G:H8	1.76	0.50
34:BA:409:G:H2'	34:BA:410:G:O5'	2.11	0.50
34:BA:527:G:H2'	34:BA:528:C:C6	2.46	0.50
34:BA:610:G:H2'	34:BA:611:A:H5'	1.92	0.50
34:BA:672:U:O2	34:BA:673:G:N7	2.45	0.50
34:BA:959:A:C2	34:BA:1221:G:N3	2.76	0.50
34:BA:999:U:C4	34:BA:1042:G:N1	2.80	0.50
34:BA:1251:A:C4'	34:BA:1370:G:H4'	2.41	0.50
34:BA:1269:A:H8	34:BA:1270:C:H1'	1.68	0.50
34:BA:1285:A:C4'	34:BA:1286:A:C8	2.95	0.50
34:BA:1329:A:HO2'	46:BQ:70:LEU:HD13	1.74	0.50
34:BA:1352:C:H2'	34:BA:1353:G:O4'	2.12	0.50
35:BF:71:VAL:O	35:BF:165:VAL:HG22	2.12	0.50
35:BF:187:LEU:HD23	35:BF:201:ILE:HG22	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:13:ARG:HA	37:BH:32:ALA:CB	2.41	0.50
38:BI:125:SER:C	38:BI:127:ASN:N	2.61	0.50
39:BJ:2:ARG:NE	39:BJ:69:GLU:HG2	2.26	0.50
39:BJ:40:VAL:HA	39:BJ:63:TYR:CD1	2.46	0.50
39:BJ:46:ARG:NH2	51:BV:37:VAL:HG13	2.27	0.50
39:BJ:78:GLU:O	39:BJ:81:ILE:CB	2.57	0.50
40:BK:111:ARG:HD2	40:BK:123:GLU:CB	2.36	0.50
42:BM:11:LYS:CB	42:BM:108:VAL:HG12	2.41	0.50
42:BM:47:LEU:HD11	42:BM:50:LEU:HD22	1.93	0.50
42:BM:47:LEU:CD1	42:BM:50:LEU:HB3	2.31	0.50
43:BN:4:ILE:HD13	43:BN:98:ILE:HG23	1.94	0.50
43:BN:22:LYS:NZ	43:BN:90:LEU:CD1	2.73	0.50
44:BO:63:LEU:HA	44:BO:66:LEU:CG	2.41	0.50
44:BO:85:ARG:NE	44:BO:111:ASP:OD2	2.45	0.50
45:BP:39:VAL:HG11	45:BP:41:ARG:NH2	2.26	0.50
45:BP:60:LEU:HD21	45:BP:64:TYR:HD2	1.76	0.50
46:BQ:14:ARG:HH21	46:BQ:42:ALA:CB	2.24	0.50
46:BQ:97:PRO:HG2	46:BQ:101:GLN:CB	2.42	0.50
48:BS:79:ARG:HA	48:BS:82:ILE:HD12	1.94	0.50
49:BT:4:ILE:CD1	49:BT:4:ILE:H	2.24	0.50
50:BU:75:ARG:HG2	50:BU:75:ARG:HH11	1.76	0.50
53:BX:98:PRO:O	53:BX:99:LEU:C	2.54	0.50
55:CA:163:VAL:CG2	55:CA:173:GLY:H	2.24	0.50
55:CA:322:GLU:OE2	55:CA:581:THR:HG21	2.12	0.50
55:CA:382:VAL:HG21	55:CA:569:LEU:HD21	1.90	0.50
55:CA:487:VAL:CG1	55:CA:576:GLU:OE2	2.50	0.50
55:CA:502:PHE:O	55:CA:505:GLN:HG2	2.11	0.50
55:CA:538:LEU:CA	55:CA:539:THR:CB	2.90	0.50
1:AA:28:A:C1'	1:AA:513:A:C6	2.95	0.50
1:AA:72:U:H5	1:AA:112:U:C2'	2.24	0.50
1:AA:226:G:O2'	1:AA:227:A:O4'	2.28	0.50
1:AA:244:A:N3	1:AA:255:A:C2	2.80	0.50
1:AA:412:A:N6	1:AA:2411:A:O2'	2.44	0.50
1:AA:416:C:H3'	1:AA:416:C:C6	2.46	0.50
1:AA:439:G:H2'	1:AA:440:G:O4'	2.12	0.50
1:AA:461:C:N4	1:AA:469:G:H21	2.10	0.50
1:AA:470:A:N6	1:AA:471:A:C2	2.80	0.50
1:AA:504:U:H6	1:AA:504:U:OP2	1.94	0.50
1:AA:566:U:O4'	19:AS:82:ARG:NH2	2.44	0.50
1:AA:587:C:C4	1:AA:671:C:C6	3.00	0.50
1:AA:621:A:H8	1:AA:622:G:H5'	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:673:C:H5''	6:AF:81:PRO:HG3	1.93	0.50
1:AA:696:G:O2'	1:AA:697:C:C5'	2.59	0.50
1:AA:764:A:OP1	4:AD:211:ARG:CB	2.60	0.50
1:AA:820:A:C2	1:AA:943:U:C2'	2.95	0.50
1:AA:894:C:C2	1:AA:895:U:N1	2.79	0.50
1:AA:917:A:N6	1:AA:918:A:N1	2.60	0.50
1:AA:928:G:N7	1:AA:929:G:C4	2.80	0.50
1:AA:969:U:N3	1:AA:970:C:C5	2.80	0.50
1:AA:1029:A:H61	1:AA:1125:G:H2'	1.76	0.50
1:AA:1046:A:N7	9:AI:9:LEU:O	2.43	0.50
1:AA:1069:A:H5''	1:AA:1070:A:C8	2.46	0.50
1:AA:1087:G:C2'	1:AA:1089:G:H4'	2.32	0.50
1:AA:1204:A:C4	6:AF:188:ARG:HB2	2.45	0.50
1:AA:1208:C:N4	1:AA:1209:G:C6	2.79	0.50
1:AA:1227:A:H3'	1:AA:1228:G:H5''	1.92	0.50
1:AA:1349:A:H5'	1:AA:1350:C:C5'	2.42	0.50
1:AA:1357:U:O4	1:AA:1358:G:C2	2.65	0.50
1:AA:1379:A:OP2	30:Ad:10:ARG:NH2	2.39	0.50
1:AA:1397:U:OP1	1:AA:1398:C:H5	1.94	0.50
1:AA:1483:G:N9	1:AA:1507:A:C2	2.80	0.50
1:AA:1638:C:O5'	1:AA:1638:C:H6	1.95	0.50
1:AA:1729:A:H3'	1:AA:1730:U:O4'	2.12	0.50
1:AA:1807:G:N2	1:AA:1809:A:P	2.85	0.50
1:AA:1902:C:N1	1:AA:1903:G:C8	2.77	0.50
1:AA:1928:A:C8	1:AA:1929:G:C4	3.00	0.50
1:AA:1936:A:N3	1:AA:1940:U:O2	2.44	0.50
1:AA:1955:U:H3'	1:AA:1956:U:H5	1.74	0.50
1:AA:2041:U:C2	1:AA:2042:A:N7	2.80	0.50
1:AA:2052:G:C4	1:AA:2053:G:C8	2.99	0.50
1:AA:2111:C:N3	1:AA:2145:C:H2'	2.27	0.50
1:AA:2264:C:C5	1:AA:2265:U:C5	3.00	0.50
1:AA:2312:U:O4'	7:AG:43:LEU:HD13	2.12	0.50
1:AA:2327:A:C5	1:AA:2388:A:N1	2.79	0.50
1:AA:2358:G:N2	1:AA:2359:C:C1'	2.75	0.50
1:AA:2516:G:C4	1:AA:2569:G:C2	2.99	0.50
1:AA:2635:C:O2'	5:AE:79:ARG:HD2	2.12	0.50
1:AA:2650:U:C2'	1:AA:2651:C:H5'	2.42	0.50
1:AA:2658:C:H41	1:AA:2664:G:H22	1.59	0.50
1:AA:2709:G:C2'	1:AA:2710:C:C5'	2.87	0.50
1:AA:2722:G:C2	1:AA:2723:C:C2	3.00	0.50
1:AA:2836:U:H2'	1:AA:2837:G:C8	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2872:G:C2	1:AA:2873:A:C6	3.00	0.50
2:AB:80:U:O2'	2:AB:81:G:H8	1.89	0.50
3:AC:20:TYR:HE1	3:AC:222:VAL:CG2	2.24	0.50
3:AC:32:LEU:HB3	3:AC:220:PRO:CG	2.24	0.50
3:AC:47:LEU:H	3:AC:47:LEU:CD2	2.24	0.50
3:AC:93:TYR:CE1	3:AC:109:ASP:CB	2.94	0.50
3:AC:113:VAL:HG12	3:AC:138:PRO:CG	2.38	0.50
3:AC:213:TYR:CZ	3:AC:223:ARG:NH2	2.79	0.50
4:AD:63:ARG:CD	4:AD:65:ILE:HD11	2.42	0.50
4:AD:136:ILE:HD12	4:AD:168:ARG:CZ	2.42	0.50
5:AE:8:LYS:HZ3	5:AE:9:VAL:HG13	1.73	0.50
5:AE:102:VAL:HG23	5:AE:200:GLU:OE2	2.11	0.50
5:AE:116:VAL:HG12	5:AE:120:TRP:NE1	2.27	0.50
5:AE:127:ASP:O	5:AE:128:SER:HB3	2.11	0.50
5:AE:199:ARG:N	5:AE:199:ARG:CD	2.71	0.50
6:AF:39:TRP:O	6:AF:42:ALA:HB3	2.12	0.50
7:AG:43:LEU:CD1	7:AG:88:ILE:HG22	2.41	0.50
7:AG:96:ARG:O	7:AG:99:MET:CB	2.54	0.50
8:AH:63:SER:O	8:AH:67:LEU:HD23	2.12	0.50
10:AJ:10:LEU:HG	10:AJ:56:GLU:HG2	1.94	0.50
10:AJ:75:SER:OG	10:AJ:130:SER:CB	2.31	0.50
12:AL:36:GLY:H	12:AL:61:VAL:HG12	1.76	0.50
13:AM:45:LEU:CD1	31:Ae:3:LYS:HZ3	2.25	0.50
14:AN:16:ARG:HG3	14:AN:72:LYS:CB	2.41	0.50
14:AN:16:ARG:NH1	14:AN:72:LYS:HG2	2.27	0.50
14:AN:109:VAL:HG11	14:AN:114:ALA:CA	2.40	0.50
15:AO:116:LEU:CD2	15:AO:116:LEU:H	2.25	0.50
17:AQ:57:PHE:O	17:AQ:58:ASN:CB	2.59	0.50
17:AQ:110:ILE:CD1	17:AQ:113:LYS:HE3	2.41	0.50
18:AR:93:LYS:CG	19:AS:10:LYS:NZ	2.68	0.50
19:AS:22:VAL:HG12	19:AS:23:GLU:N	2.26	0.50
19:AS:89:GLN:HG2	19:AS:91:TYR:CE2	2.47	0.50
20:AT:20:VAL:CG1	20:AT:21:VAL:H	2.23	0.50
21:AU:61:GLY:N	21:AU:73:ARG:HH12	2.10	0.50
21:AU:87:GLN:CD	21:AU:87:GLN:N	2.68	0.50
22:AV:69:ALA:O	22:AV:71:LYS:HD2	2.11	0.50
23:AW:14:LYS:O	23:AW:15:PRO:C	2.53	0.50
23:AW:118:GLN:C	23:AW:118:GLN:CD	2.79	0.50
26:AZ:9:VAL:HG13	26:AZ:54:VAL:CA	2.37	0.50
26:AZ:50:VAL:HG13	26:AZ:53:LEU:CB	2.42	0.50
27:Aa:64:GLY:C	27:Aa:68:ARG:NH2	2.70	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Ad:22:MET:O	30:Ad:28:ARG:CG	2.60	0.50
31:Ae:54:GLU:O	31:Ae:55:ALA:C	2.55	0.50
34:BA:156:G:C6	34:BA:157:G:N7	2.80	0.50
34:BA:266:G:H22	34:BA:270:A:N6	2.09	0.50
34:BA:306:G:C4	34:BA:307:C:C6	3.00	0.50
34:BA:451:A:OP1	34:BA:481:G:N2	2.40	0.50
34:BA:511:C:O2'	34:BA:512:U:P	2.69	0.50
34:BA:519:C:N4	34:BA:520:A:N3	2.59	0.50
34:BA:676:A:C4	34:BA:677:U:C5	2.99	0.50
34:BA:720:C:H5''	51:BV:52:PRO:HB3	1.92	0.50
34:BA:765:G:N2	34:BA:816:A:H2	2.05	0.50
34:BA:812:C:O4'	34:BA:813:U:H5	1.95	0.50
34:BA:1003:G:N2	34:BA:1005:A:H5'	2.26	0.50
34:BA:1037:C:C4	34:BA:1038:C:C4	3.00	0.50
34:BA:1055:A:HO2'	34:BA:1056:U:P	2.34	0.50
34:BA:1126:U:H1'	34:BA:1280:A:H62	1.68	0.50
34:BA:1253:G:C2	34:BA:1285:A:N6	2.75	0.50
34:BA:1271:G:OP2	34:BA:1314:C:H5''	2.11	0.50
34:BA:1321:C:C6	34:BA:1321:C:C3'	2.94	0.50
34:BA:1415:G:C2	34:BA:1416:G:C8	2.99	0.50
35:BF:67:THR:CG2	35:BF:155:LEU:HD21	2.42	0.50
35:BF:76:GLN:O	35:BF:211:ILE:HD11	2.12	0.50
35:BF:152:PHE:CG	35:BF:153:ARG:N	2.77	0.50
36:BG:28:GLN:HA	36:BG:30:ARG:NH1	2.27	0.50
36:BG:179:ARG:O	36:BG:206:GLU:HG3	2.11	0.50
36:BG:191:THR:HB	36:BG:193:TYR:CD2	2.47	0.50
37:BH:12:CYS:SG	37:BH:19:LEU:O	2.70	0.50
37:BH:64:LEU:HD12	37:BH:75:PHE:CZ	2.47	0.50
37:BH:82:ALA:CB	37:BH:92:VAL:HB	2.39	0.50
37:BH:113:SER:HB3	37:BH:116:GLN:CG	2.41	0.50
37:BH:170:VAL:CG1	37:BH:171:GLY:H	2.24	0.50
38:BI:122:GLU:HG2	38:BI:126:ARG:CG	2.41	0.50
39:BJ:28:ARG:HD3	39:BJ:28:ARG:N	2.27	0.50
39:BJ:48:LEU:N	39:BJ:48:LEU:CD2	2.65	0.50
39:BJ:53:ALA:O	39:BJ:55:ASP:CG	2.55	0.50
39:BJ:97:PHE:CE2	51:BV:31:LEU:HD22	2.46	0.50
40:BK:139:GLU:H	40:BK:139:GLU:CD	2.20	0.50
41:BL:36:LEU:CD1	41:BL:48:TYR:HB2	2.37	0.50
42:BM:5:TYR:CD2	42:BM:6:GLY:N	2.80	0.50
43:BN:9:ARG:HG3	43:BN:95:GLU:OE2	2.11	0.50
43:BN:16:LEU:HD22	43:BN:16:LEU:N	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:20:TYR:CD2	44:BO:83:ILE:HG21	2.47	0.50
44:BO:62:GLN:OE1	44:BO:63:LEU:N	2.45	0.50
46:BQ:20:THR:CA	46:BQ:25:ILE:HG22	2.42	0.50
46:BQ:37:THR:CB	46:BQ:56:LEU:HB2	2.41	0.50
46:BQ:50:GLU:O	46:BQ:54:VAL:HG23	2.11	0.50
46:BQ:80:ARG:HB2	52:BW:65:ASN:HD22	1.75	0.50
48:BS:4:THR:HG22	48:BS:6:GLU:OE1	2.12	0.50
48:BS:70:LEU:CD2	48:BS:81:LEU:HD13	2.41	0.50
49:BT:9:PHE:CE1	49:BT:18:ARG:HG3	2.47	0.50
49:BT:58:TYR:O	49:BT:61:SER:HB3	2.11	0.50
50:BU:3:LYS:O	50:BU:4:LYS:C	2.54	0.50
51:BV:26:LEU:HD23	51:BV:29:PHE:HB2	1.93	0.50
52:BW:3:ARG:HH21	52:BW:45:VAL:HG22	1.71	0.50
52:BW:33:THR:OG1	52:BW:49:ILE:HD12	2.12	0.50
52:BW:39:THR:O	52:BW:39:THR:HG22	2.11	0.50
52:BW:51:VAL:CB	52:BW:75:ALA:HB2	2.42	0.50
55:CA:32:PHE:CG	55:CA:33:ASP:N	2.80	0.50
55:CA:69:ARG:CA	55:CA:70:ILE:CB	2.90	0.50
55:CA:133:PRO:HG2	55:CA:134:GLY:H	1.76	0.50
55:CA:165:ALA:HA	55:CA:171:ILE:CB	2.30	0.50
55:CA:274:VAL:HG13	55:CA:275:ALA:N	2.26	0.50
55:CA:390:ARG:CB	55:CA:391:GLU:CB	2.89	0.50
1:AA:17:G:H4'	18:AR:25:TRP:CZ3	2.46	0.50
1:AA:33:U:O2'	1:AA:34:C:C5	2.56	0.50
1:AA:117:G:C4	1:AA:119:A:N6	2.80	0.50
1:AA:142:G:C4'	21:AU:35:THR:HG21	2.21	0.50
1:AA:149:A:N7	1:AA:150:C:N1	2.60	0.50
1:AA:220:G:O2'	1:AA:233:A:N3	2.44	0.50
1:AA:239:U:C2	1:AA:259:G:N1	2.80	0.50
1:AA:270(A):A:OP2	1:AA:270(B):A:C2	2.64	0.50
1:AA:270(L):U:O2'	1:AA:270(M):U:P	2.69	0.50
1:AA:296:C:C2'	1:AA:297:C:O4'	2.60	0.50
1:AA:448:U:O4	1:AA:583:G:C4	2.65	0.50
1:AA:532:A:N7	18:AR:45:TYR:CE2	2.80	0.50
1:AA:556:G:H2'	1:AA:557:U:O5'	2.12	0.50
1:AA:591:C:C4	1:AA:592:G:N7	2.80	0.50
1:AA:593:G:C5	1:AA:594:U:C5	3.00	0.50
1:AA:656:G:C2'	1:AA:657:U:O5'	2.60	0.50
1:AA:684:G:N2	1:AA:794:G:N2	2.60	0.50
1:AA:748:G:OP1	20:AT:88:ARG:CD	2.60	0.50
1:AA:863:A:H2'	1:AA:864:G:C8	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:934:G:C6	1:AA:935:C:C5	3.00	0.50
1:AA:964:C:O5'	1:AA:964:C:H6	1.95	0.50
1:AA:981:A:H1'	1:AA:2037:G:O4'	2.11	0.50
1:AA:997:G:H2'	1:AA:998:C:H5	1.75	0.50
1:AA:1031:G:C6	1:AA:1032:A:N6	2.80	0.50
1:AA:1058:G:H1'	10:AJ:116:ASN:HB3	1.94	0.50
1:AA:1062:G:O2'	1:AA:1063:G:H3'	2.12	0.50
1:AA:1077:A:C2	10:AJ:133:SER:O	2.64	0.50
1:AA:1077:A:H5'	1:AA:1078:U:OP2	2.11	0.50
1:AA:1120:G:H2'	1:AA:1121:C:C6	2.47	0.50
1:AA:1176:G:C5'	1:AA:1177:A:C8	2.94	0.50
1:AA:1176:G:C8	1:AA:1177:A:O4'	2.65	0.50
1:AA:1189:A:OP2	1:AA:1190:G:N7	2.44	0.50
1:AA:1311:G:N7	30:Ad:48:LYS:HD3	2.27	0.50
1:AA:1312:U:C6	1:AA:1313:U:C5	3.00	0.50
1:AA:1457:A:H2'	1:AA:1458:C:H5'	1.94	0.50
1:AA:1469:A:H8	1:AA:1469:A:H3'	1.76	0.50
1:AA:1510:A:C5'	1:AA:1511:A:OP2	2.60	0.50
1:AA:1639:U:O2'	1:AA:2699:C:H4'	2.11	0.50
1:AA:1688:U:H3	1:AA:1700:A:H5''	1.73	0.50
1:AA:1689:A:C2	1:AA:1690:A:N7	2.79	0.50
1:AA:1731:G:N3	1:AA:1731:G:C2'	2.74	0.50
1:AA:1775:U:C4	4:AD:208:LYS:HD2	2.47	0.50
1:AA:1799:G:H8	4:AD:268:ARG:NH1	2.04	0.50
1:AA:1827:C:O2	1:AA:1828:G:H1'	2.11	0.50
1:AA:1945:G:H5'	1:AA:1945:G:C8	2.46	0.50
1:AA:2046:G:H4'	28:Ab:22:HIS:HB3	1.93	0.50
1:AA:2057:A:C8	1:AA:2058:A:N7	2.80	0.50
1:AA:2072:G:H2'	1:AA:2073:C:C5	2.46	0.50
1:AA:2124:G:H2'	3:AC:217:THR:OG1	2.12	0.50
1:AA:2150:U:O2	1:AA:2151:G:C8	2.64	0.50
1:AA:2209:C:H3'	1:AA:2209:C:H6	1.75	0.50
1:AA:2227:A:C5	1:AA:2228:G:N7	2.80	0.50
1:AA:2298:A:H2'	1:AA:2299:G:C8	2.47	0.50
1:AA:2466:C:P	32:Af:5:ALA:HB3	2.52	0.50
1:AA:2557:G:H2'	1:AA:2558:C:C5	2.46	0.50
1:AA:2745:C:C4	1:AA:2746:U:C5	3.00	0.50
1:AA:2882:A:H4'	15:AO:98:LEU:HD21	1.92	0.50
2:AB:73:A:C2	23:AW:29:TYR:HE2	2.30	0.50
2:AB:103:U:C3'	2:AB:104:A:H5'	2.42	0.50
2:AB:117:G:N2	2:AB:118:G:N9	2.59	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:23:ASP:CG	3:AC:186:ALA:HB2	2.36	0.50
3:AC:66:HIS:CD2	3:AC:180:PHE:HE2	2.30	0.50
4:AD:5:LYS:CD	4:AD:31:LYS:HZ2	2.25	0.50
4:AD:27:THR:CG2	4:AD:82:ILE:CG2	2.89	0.50
4:AD:27:THR:CG2	4:AD:82:ILE:HG21	2.41	0.50
4:AD:201:HIS:CD2	4:AD:202:LYS:CE	2.93	0.50
5:AE:5:LEU:CD1	5:AE:197:ILE:HA	2.42	0.50
5:AE:14:ILE:HD12	5:AE:14:ILE:O	2.12	0.50
6:AF:39:TRP:NE1	6:AF:106:ARG:NH1	2.59	0.50
7:AG:14:GLU:CD	7:AG:14:GLU:C	2.80	0.50
7:AG:36:LYS:NZ	7:AG:38:VAL:HG22	2.25	0.50
7:AG:39:ILE:HG23	7:AG:157:ILE:HG13	1.91	0.50
8:AH:69:ARG:CG	8:AH:69:ARG:NH1	2.74	0.50
8:AH:103:LEU:HB2	8:AH:115:VAL:CG1	2.41	0.50
9:AI:54:ALA:N	9:AI:85:ASP:CA	2.60	0.50
12:AL:9:GLU:HB2	12:AL:82:ASN:CB	2.27	0.50
12:AL:20:MET:HE1	12:AL:44:LYS:HE3	1.94	0.50
13:AM:117:GLU:CD	13:AM:117:GLU:H	2.19	0.50
14:AN:6:ARG:C	14:AN:6:ARG:CD	2.82	0.50
15:AO:25:ALA:HB2	15:AO:48:VAL:HG22	1.93	0.50
16:AP:75:GLU:HA	16:AP:78:LEU:CB	2.38	0.50
16:AP:92:TYR:O	16:AP:98:VAL:HG21	2.11	0.50
17:AQ:85:LYS:HZ2	17:AQ:85:LYS:H	1.59	0.50
18:AR:48:ALA:O	18:AR:52:ARG:NE	2.44	0.50
20:AT:22:ASP:HA	20:AT:75:TYR:OH	2.11	0.50
20:AT:25:ARG:HD3	20:AT:74:ALA:CA	2.40	0.50
23:AW:79:ARG:O	23:AW:80:ARG:HG3	2.11	0.50
23:AW:102:LEU:CD2	23:AW:137:ILE:HB	2.40	0.50
24:AX:83:PRO:O	24:AX:84:LEU:C	2.53	0.50
25:AY:22:GLU:OE1	25:AY:22:GLU:HA	2.11	0.50
27:Aa:57:GLU:CA	27:Aa:61:ARG:HG3	2.40	0.50
34:BA:5:U:N3	37:BH:86:LYS:HB3	2.27	0.50
34:BA:9:G:C8	38:BI:126:ARG:NH2	2.79	0.50
34:BA:32:A:N6	34:BA:553:A:N6	2.59	0.50
34:BA:34:C:O4'	45:BP:32:PHE:CE2	2.64	0.50
34:BA:35:G:C6	34:BA:550:G:N1	2.80	0.50
34:BA:96:G:C2	34:BA:97:U:C2	3.00	0.50
34:BA:108:G:O6	53:BX:15:ARG:HD2	2.12	0.50
34:BA:439:A:H1'	34:BA:496:A:C2	2.46	0.50
34:BA:440:A:N6	34:BA:494:U:C6	2.80	0.50
34:BA:465:A:N6	49:BT:82:GLN:HE22	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:615:C:H2'	34:BA:616:G:O4'	2.11	0.50
34:BA:778:G:C4	34:BA:779:C:C6	3.00	0.50
34:BA:896:C:H2'	34:BA:897:C:H6	1.76	0.50
34:BA:929:G:C6	34:BA:930:C:C5	3.00	0.50
34:BA:947:G:C2	34:BA:948:C:N1	2.80	0.50
34:BA:955:U:H2'	34:BA:956:U:H6	1.76	0.50
34:BA:1002:G:N7	34:BA:1004:A:N1	2.60	0.50
34:BA:1058:G:C8	34:BA:1058:G:O5'	2.64	0.50
34:BA:1116:C:H2'	34:BA:1117:G:H8	1.76	0.50
34:BA:1117:G:O3'	42:BM:103:THR:CG2	2.60	0.50
34:BA:1268:A:H1'	34:BA:1326:C:O2'	2.12	0.50
34:BA:1350:A:N6	34:BA:1373:G:N2	2.59	0.50
34:BA:1399:C:H42	34:BA:1504:G:H1	1.60	0.50
34:BA:1451:A:H8	34:BA:1451:A:OP1	1.95	0.50
35:BF:61:LEU:HD23	35:BF:62:ALA:H	1.72	0.50
35:BF:177:ALA:O	35:BF:179:LYS:N	2.45	0.50
36:BG:12:LEU:HD11	47:BR:57:ARG:HG3	1.94	0.50
36:BG:55:VAL:CG2	36:BG:68:VAL:HG13	2.39	0.50
38:BI:9:LYS:HB2	38:BI:33:VAL:CB	2.32	0.50
38:BI:14:ARG:HG2	38:BI:29:GLY:O	2.10	0.50
38:BI:44:GLY:O	38:BI:58:ALA:HB1	2.12	0.50
38:BI:45:PHE:O	38:BI:45:PHE:CG	2.64	0.50
39:BJ:1:MET:HB3	39:BJ:67:MET:O	2.12	0.50
40:BK:5:ARG:NH1	40:BK:5:ARG:O	2.41	0.50
40:BK:6:ARG:HA	40:BK:6:ARG:HH11	1.77	0.50
40:BK:64:GLN:C	40:BK:128:ALA:HA	2.36	0.50
40:BK:71:PRO:CG	40:BK:96:GLN:HG3	2.40	0.50
40:BK:72:ARG:HG3	40:BK:73:MET:N	2.24	0.50
40:BK:107:ALA:HB3	40:BK:134:ALA:HB2	1.94	0.50
40:BK:135:VAL:O	40:BK:139:GLU:OE2	2.29	0.50
41:BL:6:ILE:HG21	41:BL:85:ARG:HH22	1.76	0.50
42:BM:78:LYS:HD3	42:BM:79:LEU:CD2	2.41	0.50
43:BN:19:SER:CA	43:BN:91:PRO:HG3	2.41	0.50
44:BO:24:SER:O	44:BO:88:GLY:HA2	2.12	0.50
44:BO:57:THR:HG21	44:BO:59:TYR:HB3	1.93	0.50
48:BS:36:ILE:CD1	48:BS:63:ARG:CD	2.84	0.50
50:BU:31:LEU:O	50:BU:31:LEU:CG	2.59	0.50
51:BV:50:ILE:O	51:BV:52:PRO:HD3	2.12	0.50
52:BW:30:LEU:HD12	52:BW:59:PRO:HA	1.93	0.50
55:CA:521:GLY:HA3	55:CA:592:LEU:HA	1.94	0.50
55:CA:571:PHE:CD1	55:CA:571:PHE:C	2.89	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:98:G:O2'	1:AA:103:A:C1'	2.60	0.50
1:AA:126:A:H5''	30:Ad:18:PHE:HD2	1.76	0.50
1:AA:243:U:C4	1:AA:244:A:C8	3.00	0.50
1:AA:493:G:C2	1:AA:494:G:C8	2.99	0.50
1:AA:507:A:H1'	1:AA:509:C:C4	2.47	0.50
1:AA:578:A:H2	18:AR:34:LYS:NZ	2.03	0.50
1:AA:588:U:O2'	1:AA:589:C:H5'	2.11	0.50
1:AA:600:G:H22	1:AA:604:G:H4'	1.76	0.50
1:AA:618:G:N7	1:AA:618(A):C:C5	2.80	0.50
1:AA:733:G:C5	1:AA:761:A:C6	2.99	0.50
1:AA:774:A:C5'	1:AA:778:G:C4'	2.90	0.50
1:AA:863:A:C2	1:AA:864:G:C5	3.00	0.50
1:AA:980:A:C5	1:AA:981:A:C2	3.00	0.50
1:AA:1061:U:C2	10:AJ:11:GLN:NE2	2.80	0.50
1:AA:1067:A:H5''	10:AJ:21:PRO:CB	2.35	0.50
1:AA:1075:C:C1'	10:AJ:90:LYS:CE	2.65	0.50
1:AA:1083:U:O2'	1:AA:1084:A:H8	1.95	0.50
1:AA:1095:A:N7	1:AA:1097:U:O4	2.45	0.50
1:AA:1163:G:N1	1:AA:1164:G:N7	2.59	0.50
1:AA:1248:G:HO2'	1:AA:1249:U:P	2.33	0.50
1:AA:1287:A:H3'	1:AA:1288:U:C6	2.46	0.50
1:AA:1299:G:O4'	1:AA:1301:A:C2	2.65	0.50
1:AA:1309:G:OP1	30:Ad:8:ASN:ND2	2.44	0.50
1:AA:1321:A:N3	1:AA:1321:A:C2'	2.74	0.50
1:AA:1326:U:C3'	1:AA:1327:C:H5'	2.42	0.50
1:AA:1361:G:H2'	1:AA:1362:C:H6	1.77	0.50
1:AA:1455:G:O2'	1:AA:1456:G:H5'	2.12	0.50
1:AA:1525:G:C2	1:AA:1526:G:C4	3.00	0.50
1:AA:1563:G:C4	1:AA:1564:C:C5	3.00	0.50
1:AA:1685:C:H2'	1:AA:1686:C:O5'	2.11	0.50
1:AA:1690:A:N3	1:AA:1691:C:O4'	2.45	0.50
1:AA:1742:C:C2'	1:AA:1743:G:H4'	2.38	0.50
1:AA:1767:C:C2	1:AA:1768:U:C6	3.00	0.50
1:AA:1798:U:H5'	4:AD:257:LEU:HB2	1.85	0.50
1:AA:1854:A:H1'	1:AA:2087:G:H21	1.77	0.50
1:AA:1919:A:H8	1:AA:1919:A:O5'	1.95	0.50
1:AA:1936:A:C4	1:AA:1945:G:C5	3.00	0.50
1:AA:1956:U:H6	1:AA:1956:U:C5'	2.24	0.50
1:AA:1969:A:O2'	1:AA:1972:A:H1'	2.12	0.50
1:AA:1995:U:H3'	1:AA:1995:U:C6	2.46	0.50
1:AA:2029:G:C4	1:AA:2031:A:OP1	2.65	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2110:G:C5	1:AA:2120:G:C8	3.00	0.50
1:AA:2115:G:H2'	1:AA:2117:A:C5	2.46	0.50
1:AA:2306:C:H5	1:AA:2311:A:C6	2.30	0.50
1:AA:2306:C:O2'	7:AG:153:ARG:NH2	2.45	0.50
1:AA:2331:G:C2'	1:AA:2332:U:O4'	2.59	0.50
1:AA:2562:U:H2'	1:AA:2563:U:H5'	1.94	0.50
1:AA:2618:G:H2'	1:AA:2619:C:H6	1.77	0.50
1:AA:2645:G:O2'	1:AA:2732:G:O3'	2.29	0.50
1:AA:2645:G:C4'	1:AA:2732:G:O2'	2.40	0.50
1:AA:2673:G:C2	1:AA:2674:G:N7	2.80	0.50
1:AA:2807:G:H3'	1:AA:2808:U:C6	2.45	0.50
1:AA:2844:G:N2	1:AA:2845:G:C1'	2.74	0.50
2:AB:24:G:C8	2:AB:24:G:O5'	2.62	0.50
2:AB:75:G:N2	23:AW:27:VAL:HG21	2.26	0.50
2:AB:79:C:H2'	2:AB:80:U:O4'	2.12	0.50
2:AB:109:G:N1	2:AB:110:G:C6	2.80	0.50
3:AC:27:HIS:NE2	3:AC:182:PRO:HG3	2.27	0.50
3:AC:90:GLY:C	3:AC:153:ILE:HG22	2.36	0.50
4:AD:96:HIS:NE2	4:AD:102:LYS:CE	2.74	0.50
4:AD:177:LEU:O	4:AD:178:PRO:O	2.30	0.50
6:AF:35:GLU:HA	6:AF:38:ARG:HD2	1.94	0.50
6:AF:125:LEU:HD13	6:AF:128:ALA:HB2	1.93	0.50
6:AF:160:ASN:HB2	6:AF:195:ASP:OD2	2.11	0.50
7:AG:33:ARG:HH11	7:AG:33:ARG:C	2.20	0.50
8:AH:102:ALA:HA	8:AH:115:VAL:HG12	1.94	0.50
8:AH:159:GLU:O	8:AH:160:LYS:HB2	2.11	0.50
10:AJ:37:PHE:CZ	10:AJ:63:ARG:NE	2.79	0.50
10:AJ:64:SER:HB2	10:AJ:65:PHE:CB	2.42	0.50
10:AJ:98:ARG:HG2	10:AJ:100:THR:H	1.76	0.50
12:AL:63:VAL:HG12	12:AL:99:PHE:HZ	1.75	0.50
12:AL:71:ARG:N	12:AL:72:PRO:HD2	2.27	0.50
12:AL:106:LEU:O	12:AL:109:LYS:N	2.44	0.50
13:AM:114:ILE:N	13:AM:129:ALA:O	2.45	0.50
13:AM:116:GLY:HA3	13:AM:121:LYS:C	2.37	0.50
14:AN:8:LYS:NZ	14:AN:11:LYS:HZ3	2.07	0.50
14:AN:61:GLY:O	23:AW:177:PRO:O	2.30	0.50
14:AN:89:ASN:N	14:AN:89:ASN:ND2	2.56	0.50
15:AO:57:ARG:HH11	15:AO:57:ARG:HG2	1.76	0.50
15:AO:66:VAL:O	15:AO:67:LEU:C	2.53	0.50
16:AP:24:LEU:H	16:AP:86:ALA:HB1	1.77	0.50
16:AP:26:LEU:CD1	16:AP:37:ALA:HB1	2.40	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:49:VAL:HG22	16:AP:76:LYS:HZ2	1.75	0.50
16:AP:69:VAL:CG1	16:AP:73:LEU:HD21	2.41	0.50
16:AP:76:LYS:CE	16:AP:77:ALA:HB2	2.38	0.50
18:AR:12:ARG:O	18:AR:13:LYS:C	2.53	0.50
18:AR:66:ASN:OD1	18:AR:76:TYR:CD1	2.65	0.50
19:AS:10:LYS:O	19:AS:12:TYR:N	2.44	0.50
19:AS:21:ARG:O	19:AS:93:GLU:OE1	2.29	0.50
19:AS:40:LEU:CG	19:AS:55:ALA:CA	2.89	0.50
19:AS:60:GLU:OE2	19:AS:101:GLY:CA	2.60	0.50
20:AT:23:LEU:CD1	28:Ab:26:THR:O	2.45	0.50
22:AV:35:TYR:CE2	22:AV:67:LEU:HD13	2.46	0.50
22:AV:44:ILE:O	22:AV:45:VAL:C	2.55	0.50
23:AW:48:PHE:CB	23:AW:54:HIS:CE1	2.91	0.50
23:AW:53:ILE:O	23:AW:53:ILE:HG22	2.11	0.50
23:AW:56:VAL:HG11	23:AW:135:GLU:OE2	2.12	0.50
23:AW:100:VAL:HG12	23:AW:133:ILE:HD13	1.93	0.50
25:AY:51:GLN:O	25:AY:54:ARG:HG3	2.12	0.50
26:AZ:31:LEU:HD12	26:AZ:32:GLN:CD	2.37	0.50
27:Aa:59:PHE:CA	27:Aa:62:ARG:CZ	2.90	0.50
27:Aa:65:ASP:HA	27:Aa:68:ARG:NH1	2.27	0.50
27:Aa:65:ASP:O	27:Aa:68:ARG:NH1	2.45	0.50
28:Ab:29:THR:C	28:Ab:30:LEU:CG	2.85	0.50
30:Ad:32:LYS:O	30:Ad:33:ARG:C	2.55	0.50
31:Ae:4:MET:HB3	31:Ae:7:HIS:NE2	2.27	0.50
31:Ae:61:LEU:O	31:Ae:62:LEU:CB	2.53	0.50
32:Af:13:LYS:HB3	32:Af:13:LYS:NZ	2.27	0.50
34:BA:44:G:H2'	34:BA:45:U:H5'	1.94	0.50
34:BA:134:A:N1	34:BA:135:C:C4	2.80	0.50
34:BA:323:U:C5	34:BA:324:G:C1'	2.94	0.50
34:BA:364:A:C2	34:BA:365:U:O4	2.65	0.50
34:BA:404:U:H5'	37:BH:122:ARG:HD3	1.94	0.50
34:BA:423:G:N2	34:BA:424:G:C5	2.80	0.50
34:BA:429:U:O2	34:BA:430:A:C8	2.65	0.50
34:BA:640:A:H2'	34:BA:641:U:H5'	1.94	0.50
34:BA:698:G:C6	34:BA:699:C:C4	3.00	0.50
34:BA:972:C:O2	34:BA:972:C:H2'	2.12	0.50
34:BA:979:C:H2'	34:BA:980:C:C5'	2.38	0.50
34:BA:1117:G:C8	34:BA:1184:G:C2	3.00	0.50
34:BA:1134:G:H2'	34:BA:1135:U:H5'	1.94	0.50
34:BA:1151:A:C8	34:BA:1152:A:C8	3.00	0.50
34:BA:1162:C:O2'	34:BA:1163:C:H5'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1201:A:HO2'	34:BA:1202:G:H5''	1.77	0.50
34:BA:1251:A:N6	34:BA:1285:A:H2	2.07	0.50
34:BA:1306:A:H3'	34:BA:1307:U:C6	2.47	0.50
34:BA:1479:C:H2'	34:BA:1480:G:O4'	2.12	0.50
34:BA:1480:G:C2'	34:BA:1481:U:O5'	2.60	0.50
34:BA:1505:G:H5''	34:BA:1506:U:O5'	2.12	0.50
35:BF:163:PHE:CE1	35:BF:201:ILE:HD13	2.45	0.50
35:BF:165:VAL:O	35:BF:187:LEU:O	2.30	0.50
36:BG:84:ILE:CD1	36:BG:101:LEU:HD22	2.42	0.50
36:BG:182:ILE:HD11	36:BG:203:PHE:CD1	2.46	0.50
37:BH:15:GLU:HB2	37:BH:19:LEU:HD11	1.92	0.50
37:BH:173:TRP:HD1	37:BH:185:PHE:CE2	2.30	0.50
37:BH:200:GLU:OE2	37:BH:201:GLN:NE2	2.45	0.50
39:BJ:1:MET:HA	39:BJ:67:MET:O	2.11	0.50
40:BK:23:VAL:HG13	40:BK:43:PHE:CE2	2.46	0.50
40:BK:149:ARG:HB3	44:BO:59:TYR:CE2	2.47	0.50
41:BL:26:VAL:O	41:BL:58:TYR:HD1	1.95	0.50
41:BL:84:ARG:O	41:BL:135:CYS:SG	2.69	0.50
42:BM:49:PRO:HG3	42:BM:81:ILE:HB	1.92	0.50
45:BP:24:VAL:CG1	45:BP:26:ALA:HB2	2.40	0.50
49:BT:8:ARG:O	49:BT:9:PHE:HD2	1.95	0.50
50:BU:36:ILE:HD13	50:BU:36:ILE:H	1.74	0.50
50:BU:80:GLY:O	50:BU:81:ARG:C	2.54	0.50
53:BX:30:LYS:O	53:BX:34:LYS:HG3	2.12	0.50
53:BX:53:LEU:HB2	53:BX:100:ILE:HG13	1.94	0.50
55:CA:209:ILE:HG22	55:CA:211:GLN:O	2.12	0.50
55:CA:267:LEU:CG	55:CA:268:ALA:N	2.73	0.50
55:CA:320:GLY:CA	55:CA:321:LYS:CB	2.90	0.50
1:AA:64:A:C2	1:AA:65:C:H1'	2.47	0.49
1:AA:273(F):C:O2	1:AA:363(A):A:C6	2.65	0.49
1:AA:289:A:C5	1:AA:351:G:O6	2.65	0.49
1:AA:299:A:O2'	1:AA:319:C:C4'	2.59	0.49
1:AA:319:C:H2'	1:AA:320:A:H8	1.71	0.49
1:AA:374:A:N6	1:AA:401:A:H1'	2.27	0.49
1:AA:379:G:C2	1:AA:396:G:C4	3.00	0.49
1:AA:408:G:N3	1:AA:409:C:C6	2.79	0.49
1:AA:476:G:O4'	1:AA:505:A:C2	2.65	0.49
1:AA:487:C:N4	1:AA:488:G:C6	2.79	0.49
1:AA:530:G:N2	1:AA:2021:C:H2'	2.27	0.49
1:AA:571:A:N3	1:AA:573:G:N7	2.60	0.49
1:AA:571:A:C5	1:AA:2030:A:C6	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:606:U:OP2	1:AA:606:U:H5	1.95	0.49
1:AA:625:G:O2'	1:AA:656:G:O3'	2.30	0.49
1:AA:821:A:OP1	1:AA:822:U:C6	2.65	0.49
1:AA:883:G:N2	1:AA:884:C:N4	2.52	0.49
1:AA:917:A:H2'	1:AA:918:A:C5'	2.37	0.49
1:AA:973:A:H1'	1:AA:1188:U:C4	2.45	0.49
1:AA:978:G:H2'	1:AA:979:G:C8	2.47	0.49
1:AA:996:A:C6	1:AA:1160:G:C2	2.99	0.49
1:AA:1156:A:OP1	18:AR:55:ARG:NH2	2.45	0.49
1:AA:1158:C:H5'	26:AZ:31:LEU:HB2	1.94	0.49
1:AA:1164:G:C2'	1:AA:1165:U:O5'	2.60	0.49
1:AA:1257:C:N4	1:AA:1258:C:N4	2.59	0.49
1:AA:1356:G:N2	1:AA:1357:U:H1'	2.27	0.49
1:AA:1365:A:OP2	27:Aa:3:GLU:OE1	2.29	0.49
1:AA:1368:G:O6	27:Aa:2:LYS:CE	2.60	0.49
1:AA:1427:A:O2'	1:AA:1428:C:P	2.70	0.49
1:AA:1558:A:C2	1:AA:1560:G:N9	2.79	0.49
1:AA:1658:C:OP1	5:AE:134:ILE:CD1	2.57	0.49
1:AA:1665:A:C4'	12:AL:66:LYS:HB2	2.43	0.49
1:AA:1729:A:H5''	1:AA:1730:U:C5	2.47	0.49
1:AA:1845:G:C6	1:AA:1896:G:C6	3.00	0.49
1:AA:1899:G:C8	1:AA:1899:G:C3'	2.95	0.49
1:AA:1920:C:C1'	1:AA:1921:G:P	3.00	0.49
1:AA:1964:G:HO2'	1:AA:1965:C:P	2.34	0.49
1:AA:2010:G:P	20:AT:41:LYS:HZ3	2.35	0.49
1:AA:2046:G:H5'	28:Ab:22:HIS:HB2	1.93	0.49
1:AA:2080:G:C2'	1:AA:2081:C:O5'	2.60	0.49
1:AA:2111:C:C4	1:AA:2145:C:C4	3.00	0.49
1:AA:2129:C:O2'	1:AA:2130:U:O4'	2.25	0.49
1:AA:2297:C:C4	1:AA:2333:A:N6	2.76	0.49
1:AA:2348:U:H2'	1:AA:2349:G:C5'	2.42	0.49
1:AA:2418:A:C2	1:AA:2419:U:C2	3.00	0.49
1:AA:2426:A:C3'	1:AA:2427:C:H5'	2.42	0.49
1:AA:2427:C:H4'	1:AA:2428:G:C5'	2.42	0.49
1:AA:2431:U:HO2'	1:AA:2432:A:H8	1.59	0.49
1:AA:2452:C:H2'	1:AA:2453:A:O4'	2.12	0.49
1:AA:2453:A:C2	1:AA:2499:C:N4	2.80	0.49
1:AA:2461:C:O2'	1:AA:2462:U:H5'	2.11	0.49
1:AA:2548:G:C6	1:AA:2561:A:C6	3.00	0.49
1:AA:2630:G:C2	1:AA:2894:G:N7	2.78	0.49
1:AA:2688:U:O2'	1:AA:2689:U:OP2	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2731:G:N2	1:AA:2732:G:N2	2.60	0.49
1:AA:2736:G:C2	1:AA:2769:C:C2	3.00	0.49
1:AA:2745:C:C1'	8:AH:143:GLN:HG2	2.42	0.49
1:AA:2793:G:C4	1:AA:2794:C:C5	3.00	0.49
1:AA:2805:G:H2'	1:AA:2807:G:H4'	1.93	0.49
1:AA:2835:A:N6	1:AA:2879:C:OP2	2.45	0.49
1:AA:2839:G:C4	1:AA:2840:C:C6	3.00	0.49
1:AA:2848:G:C8	17:AQ:99:LEU:HD13	2.47	0.49
2:AB:7:G:C4'	16:AP:29:PHE:HE2	2.17	0.49
2:AB:16:G:O2'	2:AB:17:C:C5'	2.60	0.49
2:AB:43:C:N3	7:AG:95:ARG:NH2	2.59	0.49
3:AC:26:ALA:CB	3:AC:182:PRO:HA	2.39	0.49
3:AC:78:ALA:HA	3:AC:119:VAL:CG2	2.42	0.49
3:AC:113:VAL:CG1	3:AC:138:PRO:HG3	2.37	0.49
4:AD:117:VAL:CG2	4:AD:126:GLN:NE2	2.68	0.49
4:AD:121:PRO:C	4:AD:135:PHE:CE2	2.80	0.49
4:AD:124:PRO:HG2	4:AD:126:GLN:HG2	1.94	0.49
4:AD:200:ASP:O	4:AD:201:HIS:C	2.54	0.49
4:AD:210:GLY:O	4:AD:214:TRP:HB2	2.12	0.49
5:AE:133:LYS:CD	5:AE:137:HIS:CG	2.90	0.49
6:AF:43:LYS:HE3	6:AF:98:SER:HB3	1.94	0.49
6:AF:197:ASP:CA	6:AF:200:GLU:CG	2.71	0.49
7:AG:4:ASP:C	7:AG:7:LEU:HB2	2.37	0.49
7:AG:63:ILE:CG2	7:AG:64:THR:N	2.74	0.49
7:AG:124:SER:HG	7:AG:133:LEU:HD23	1.76	0.49
7:AG:179:PRO:O	7:AG:181:ARG:NH1	2.45	0.49
8:AH:23:ARG:NE	8:AH:34:GLU:HB3	2.27	0.49
8:AH:85:LYS:HZ3	8:AH:141:VAL:C	2.20	0.49
8:AH:136:ILE:HG23	8:AH:140:LYS:HE2	1.94	0.49
9:AI:152:VAL:CB	33:Ag:18:UNK:C	2.90	0.49
11:AK:53:VAL:CA	11:AK:121:LYS:O	2.45	0.49
12:AL:106:LEU:CD1	12:AL:107:ARG:N	2.75	0.49
13:AM:64:LYS:O	13:AM:64:LYS:CD	2.59	0.49
13:AM:70:GLN:CB	13:AM:110:TYR:OH	2.60	0.49
13:AM:79:ARG:HA	13:AM:79:ARG:NH1	2.26	0.49
13:AM:81:GLN:C	13:AM:86:LYS:HG3	2.37	0.49
13:AM:87:ASP:O	13:AM:89:ALA:N	2.45	0.49
13:AM:114:ILE:CG2	13:AM:134:ALA:HB2	2.41	0.49
14:AN:51:ARG:HE	14:AN:55:VAL:HG21	1.77	0.49
16:AP:58:LEU:C	16:AP:60:GLY:H	2.20	0.49
17:AQ:49:VAL:O	17:AQ:50:ILE:HG12	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:59:THR:N	17:AQ:61:PHE:CE2	2.80	0.49
17:AQ:76:PHE:CZ	17:AQ:78:LEU:CG	2.94	0.49
17:AQ:82:LEU:HD13	17:AQ:84:GLN:CB	2.41	0.49
18:AR:42:ALA:O	18:AR:45:TYR:HB2	2.11	0.49
22:AV:67:LEU:CD1	22:AV:71:LYS:NZ	2.75	0.49
22:AV:75:ILE:CG2	22:AV:100:ALA:HB2	2.29	0.49
22:AV:97:ARG:C	22:AV:98:VAL:CG2	2.85	0.49
23:AW:29:TYR:CE1	23:AW:72:ARG:NH1	2.76	0.49
23:AW:31:ARG:O	23:AW:31:ARG:CZ	2.60	0.49
25:AY:30:LEU:HD11	25:AY:48:LEU:HD23	1.94	0.49
25:AY:54:ARG:O	25:AY:55:LEU:C	2.55	0.49
27:Aa:39:CYS:C	27:Aa:40:HIS:ND1	2.69	0.49
28:Ab:34:PRO:HG3	28:Ab:40:LYS:HZ1	1.77	0.49
29:Ac:30:THR:CB	29:Ac:31:PRO:HD3	2.42	0.49
31:Ae:8:LYS:HA	31:Ae:11:LYS:CD	2.40	0.49
34:BA:22:G:C2	34:BA:23:C:C2	3.00	0.49
34:BA:27:G:C6	34:BA:557:G:C2	3.00	0.49
34:BA:87:A:N7	34:BA:88:C:N3	2.60	0.49
34:BA:186(A):C:N4	34:BA:191:G:C6	2.80	0.49
34:BA:186(B):C:H4'	53:BX:89:ARG:CZ	2.42	0.49
34:BA:299:G:H2'	34:BA:300:A:C5	2.46	0.49
34:BA:380:G:N2	34:BA:382:A:C3'	2.75	0.49
34:BA:413:G:C2'	34:BA:414:A:OP2	2.60	0.49
34:BA:450:G:H5''	34:BA:451:A:O5'	2.11	0.49
34:BA:531:U:H5''	34:BA:532:A:OP1	2.11	0.49
34:BA:594:G:H2'	34:BA:595:G:H1'	1.94	0.49
34:BA:712:A:H2'	34:BA:713:G:C8	2.47	0.49
34:BA:783:C:C2'	34:BA:784:C:H5'	2.42	0.49
34:BA:946:A:N6	34:BA:1236:A:C6	2.80	0.49
34:BA:947:G:C2	34:BA:948:C:C2	3.00	0.49
34:BA:1189:C:O2'	34:BA:1190:G:H5'	2.11	0.49
34:BA:1217:C:H2'	34:BA:1218:C:C6	2.47	0.49
34:BA:1227:A:H5'	52:BW:81:ARG:HE	1.76	0.49
34:BA:1242:C:C4	34:BA:1243:C:C5	3.00	0.49
34:BA:1298:C:C2	40:BK:114:ARG:NH1	2.80	0.49
34:BA:1300:G:O2'	34:BA:1301:U:H6	1.95	0.49
34:BA:1300:G:HO2'	34:BA:1301:U:H6	1.57	0.49
34:BA:1302:U:O2'	34:BA:1303:C:OP1	2.24	0.49
34:BA:1307:U:N3	34:BA:1308:U:C5	2.80	0.49
34:BA:1379:G:C5	34:BA:1380:U:C5	3.00	0.49
34:BA:1406:U:O4'	34:BA:1518:A:H4'	2.11	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1520:G:O2'	34:BA:1521:G:H8	1.92	0.49
34:BA:1533:C:C2'	34:BA:1534:A:O5'	2.60	0.49
35:BF:19:HIS:C	35:BF:39:ILE:HD11	2.37	0.49
35:BF:60:ASP:CB	35:BF:64:ARG:NH1	2.74	0.49
35:BF:178:ARG:O	41:BL:71:GLY:O	2.30	0.49
36:BG:11:ARG:HH22	36:BG:178:LEU:HA	1.77	0.49
36:BG:11:ARG:HH11	36:BG:15:THR:HG21	1.77	0.49
36:BG:60:ALA:HA	43:BN:92:THR:O	2.11	0.49
36:BG:108:ASN:ND2	36:BG:111:LEU:CD1	2.72	0.49
36:BG:176:HIS:O	36:BG:177:THR:C	2.55	0.49
37:BH:104:VAL:HG11	37:BH:140:VAL:CG2	2.26	0.49
37:BH:159:ARG:HD2	37:BH:163:GLU:OE2	2.12	0.49
37:BH:191:ARG:HD3	37:BH:191:ARG:C	2.35	0.49
38:BI:82:VAL:HG11	38:BI:134:ALA:O	2.12	0.49
39:BJ:52:ILE:CG2	39:BJ:87:ARG:HH22	2.25	0.49
40:BK:16:LEU:HB3	42:BM:41:VAL:HG12	1.93	0.49
41:BL:40:ALA:HB2	41:BL:45:ILE:CD1	2.41	0.49
42:BM:11:LYS:O	42:BM:11:LYS:CG	2.59	0.49
42:BM:91:ASP:O	42:BM:91:ASP:CG	2.54	0.49
44:BO:114:VAL:CG2	44:BO:115:PRO:N	2.75	0.49
44:BO:126:ARG:HB3	44:BO:126:ARG:CZ	2.41	0.49
45:BP:117:ARG:O	45:BP:121:GLY:HA2	2.12	0.49
46:BQ:20:THR:OG1	46:BQ:26:GLY:C	2.54	0.49
46:BQ:95:GLY:O	46:BQ:110:ARG:HB3	2.12	0.49
47:BR:34:TYR:CE1	47:BR:39:LEU:O	2.65	0.49
49:BT:3:LYS:HA	49:BT:4:ILE:HD13	1.94	0.49
49:BT:34:GLU:CD	49:BT:35:LYS:N	2.70	0.49
49:BT:75:ARG:O	49:BT:78:GLY:N	2.44	0.49
50:BU:2:PRO:O	50:BU:4:LYS:N	2.45	0.49
50:BU:75:ARG:CG	50:BU:76:LEU:N	2.74	0.49
52:BW:19:VAL:CG1	52:BW:20:LEU:N	2.75	0.49
53:BX:23:ARG:HA	53:BX:26:ASN:CG	2.37	0.49
53:BX:91:LEU:C	53:BX:93:GLU:H	2.20	0.49
55:CA:311:PHE:C	55:CA:355:ALA:HA	2.13	0.49
55:CA:320:GLY:N	55:CA:321:LYS:HB2	2.27	0.49
55:CA:383:SER:N	55:CA:384:ARG:CB	2.75	0.49
55:CA:568:ALA:O	55:CA:572:ILE:HG23	2.12	0.49
1:AA:253:C:H2'	1:AA:253:C:O2	2.11	0.49
1:AA:257:A:C2'	1:AA:258:G:H5'	2.42	0.49
1:AA:323:G:H2'	6:AF:170:LEU:CG	2.42	0.49
1:AA:363(A):A:C2'	1:AA:363(B):G:O5'	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:370:G:O2'	1:AA:371:A:O4'	2.25	0.49
1:AA:397:G:OP2	27:Aa:10:VAL:HG11	2.11	0.49
1:AA:408:G:C4	1:AA:409:C:C6	3.00	0.49
1:AA:411:G:H5'	1:AA:2407:G:OP2	2.12	0.49
1:AA:547:A:H2'	1:AA:548:A:C8	2.47	0.49
1:AA:552:G:C6	1:AA:553:U:C4	3.00	0.49
1:AA:553:U:C4	1:AA:554:U:C4	3.00	0.49
1:AA:605:C:OP1	6:AF:104:LYS:HD2	2.12	0.49
1:AA:711:G:C6	1:AA:712:G:N7	2.80	0.49
1:AA:760:G:H2'	1:AA:761:A:C5'	2.41	0.49
1:AA:813:U:C4	13:AM:25:SER:HB3	2.47	0.49
1:AA:823:G:H3'	1:AA:824:A:C8	2.43	0.49
1:AA:833:U:H4'	13:AM:49:ARG:HE	1.77	0.49
1:AA:943:U:H5''	1:AA:944:G:O6	2.12	0.49
1:AA:956:G:OP1	14:AN:87:LYS:HG3	2.12	0.49
1:AA:980:A:N3	1:AA:2037:G:O2'	2.42	0.49
1:AA:988:A:H8	1:AA:988:A:O5'	1.95	0.49
1:AA:989:G:P	26:AZ:10:LYS:HZ1	2.35	0.49
1:AA:1045:A:O4'	1:AA:1111:A:C2	2.66	0.49
1:AA:1051:G:H3'	1:AA:1052:C:H5''	1.93	0.49
1:AA:1142(A):A:C8	1:AA:1142(A):A:O5'	2.65	0.49
1:AA:1202:C:C2'	1:AA:1203:G:H4'	2.37	0.49
1:AA:1223:C:C5	1:AA:1227:A:N1	2.80	0.49
1:AA:1239:G:H2'	1:AA:1240:U:C4'	2.42	0.49
1:AA:1241:A:C2'	1:AA:1242:A:OP1	2.60	0.49
1:AA:1272:A:HO2'	1:AA:1273:U:P	2.34	0.49
1:AA:1284:A:C5	1:AA:1285:G:N1	2.80	0.49
1:AA:1357:U:N3	1:AA:1358:G:C2	2.80	0.49
1:AA:1754:C:C2	1:AA:1755:A:C8	3.00	0.49
1:AA:1756:G:OP1	1:AA:1756:G:H3'	2.11	0.49
1:AA:1786:A:H4'	1:AA:1938:A:N6	2.10	0.49
1:AA:1789:A:O4'	4:AD:222:ARG:CZ	2.60	0.49
1:AA:1807:G:H21	1:AA:1809:A:C4'	2.25	0.49
1:AA:1908:C:H42	56:AA:3001:NMY:H92	0.58	0.49
1:AA:1942:C:C5	1:AA:1943:U:C4	3.00	0.49
1:AA:1991:U:H3'	1:AA:1991:U:C6	2.48	0.49
1:AA:2024:G:C5	1:AA:2025:C:C5	3.00	0.49
1:AA:2053:G:N1	1:AA:2054:A:C5	2.80	0.49
1:AA:2247:A:H2'	1:AA:2248:C:C6	2.47	0.49
1:AA:2469:A:C2	1:AA:2482:G:H1'	2.47	0.49
1:AA:2469:A:C6	1:AA:2482:G:C8	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2496:C:C2	1:AA:2497:A:H2	2.30	0.49
1:AA:2606:C:H6	1:AA:2606:C:C5'	2.20	0.49
1:AA:2630:G:C2	1:AA:2789:C:N3	2.80	0.49
1:AA:2729:G:C6	1:AA:2730:C:C4	3.00	0.49
1:AA:2787:C:C2	5:AE:61:ARG:CZ	2.96	0.49
1:AA:2799:A:C1'	1:AA:2802:G:N1	2.76	0.49
2:AB:47:C:O2'	16:AP:92:TYR:CE1	2.64	0.49
3:AC:19:ILE:CG2	3:AC:223:ARG:HG2	2.40	0.49
3:AC:97:GLU:OE1	3:AC:122:ALA:CB	2.60	0.49
4:AD:13:ARG:NH2	4:AD:19:ALA:HB1	2.25	0.49
4:AD:23:GLU:CD	4:AD:24:ILE:O	2.55	0.49
4:AD:92:ILE:HG13	4:AD:93:ALA:N	2.26	0.49
4:AD:172:TYR:CD1	4:AD:186:HIS:N	2.80	0.49
5:AE:32:PRO:CD	5:AE:88:GLY:C	2.85	0.49
7:AG:11:TYR:O	7:AG:15:VAL:CG1	2.57	0.49
7:AG:30:GLU:HB3	7:AG:162:THR:HB	1.93	0.49
7:AG:68:PRO:HB3	7:AG:72:ARG:HH22	1.76	0.49
8:AH:11:VAL:HG11	8:AH:17:VAL:HG11	1.94	0.49
8:AH:38:SER:CB	8:AH:41:MET:HG3	2.13	0.49
8:AH:54:ARG:NH2	8:AH:57:ASP:HA	2.27	0.49
8:AH:149:ARG:NH1	8:AH:164:TYR:HD1	2.09	0.49
10:AJ:55:VAL:H	10:AJ:56:GLU:CA	2.23	0.49
10:AJ:112:MET:CE	10:AJ:122:ALA:HB2	2.35	0.49
11:AK:91:LEU:HA	11:AK:95:PRO:CA	2.43	0.49
11:AK:122:VAL:O	11:AK:123:TYR:CD1	2.65	0.49
12:AL:23:ARG:NH1	12:AL:30:ALA:HB2	2.27	0.49
12:AL:88:ASN:C	12:AL:90:GLN:N	2.71	0.49
13:AM:73:GLY:N	13:AM:107:LYS:HE3	2.27	0.49
14:AN:11:LYS:NZ	14:AN:73:PRO:HB3	2.27	0.49
14:AN:109:VAL:CG2	14:AN:113:GLN:HB2	2.38	0.49
15:AO:14:SER:CA	15:AO:17:ARG:HG2	2.42	0.49
16:AP:32:LEU:O	16:AP:34:HIS:N	2.45	0.49
17:AQ:67:SER:HA	17:AQ:75:ILE:HG22	1.95	0.49
17:AQ:70:VAL:HG23	17:AQ:74:ARG:HD3	1.89	0.49
18:AR:43:GLY:O	18:AR:44:ASN:C	2.55	0.49
18:AR:52:ARG:HB2	18:AR:55:ARG:HD3	1.94	0.49
18:AR:65:ILE:HG23	18:AR:96:ALA:HA	1.94	0.49
20:AT:21:VAL:HG22	20:AT:75:TYR:CD1	2.47	0.49
22:AV:12:THR:HG22	22:AV:13:VAL:CG1	2.41	0.49
22:AV:53:PRO:HG2	22:AV:55:TYR:O	2.12	0.49
23:AW:1:MET:HE3	23:AW:3:TYR:HD2	1.75	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:42:VAL:C	23:AW:46:LYS:HZ2	2.19	0.49
25:AY:32:PHE:HB2	25:AY:33:GLN:HE22	1.77	0.49
26:AZ:12:PRO:O	26:AZ:13:ILE:O	2.30	0.49
31:Ae:17:THR:C	31:Ae:19:SER:H	2.19	0.49
34:BA:67:C:O2	34:BA:171:A:C2	2.64	0.49
34:BA:108:G:C2	34:BA:109:A:N1	2.80	0.49
34:BA:173:U:C5'	34:BA:197:A:H1'	2.43	0.49
34:BA:430:A:N7	34:BA:431:A:N7	2.60	0.49
34:BA:430:A:H4'	37:BH:7:PRO:HA	1.94	0.49
34:BA:595:G:N7	34:BA:641:U:C4	2.80	0.49
34:BA:792:A:C4	34:BA:794:A:N6	2.79	0.49
34:BA:874:G:C2	34:BA:875:C:C6	3.00	0.49
34:BA:888:G:N1	34:BA:889:A:N6	2.60	0.49
34:BA:945:G:C2	34:BA:1337:G:C4	3.00	0.49
34:BA:978:A:N6	34:BA:1318:A:N6	2.60	0.49
34:BA:1067:A:C2	34:BA:1068:G:H1'	2.47	0.49
34:BA:1301:U:C4	34:BA:1303:C:N1	2.81	0.49
34:BA:1342:C:C4'	42:BM:125:TYR:HB2	2.37	0.49
34:BA:1368:G:OP1	42:BM:113:LYS:HA	2.13	0.49
34:BA:1422:G:H2'	34:BA:1423:G:C8	2.41	0.49
34:BA:1455:G:OP1	53:BX:32:ALA:N	2.45	0.49
35:BF:43:ASP:OD1	35:BF:44:LEU:N	2.45	0.49
35:BF:114:ARG:O	35:BF:118:LEU:HB2	2.11	0.49
35:BF:178:ARG:HE	35:BF:196:LEU:CD1	2.11	0.49
35:BF:189:ASP:CB	35:BF:205:ASP:HB3	2.40	0.49
37:BH:81:GLU:O	37:BH:85:LYS:HB2	2.11	0.49
37:BH:155:LEU:H	37:BH:155:LEU:HD22	1.77	0.49
37:BH:191:ARG:HD3	37:BH:192:GLU:CA	2.42	0.49
39:BJ:37:VAL:HA	39:BJ:65:VAL:CB	2.41	0.49
40:BK:47:CYS:O	40:BK:51:GLN:HG2	2.12	0.49
40:BK:49:ILE:HG12	40:BK:121:ALA:HB2	1.94	0.49
41:BL:22:GLU:HA	41:BL:63:LEU:CD2	2.22	0.49
42:BM:94:ALA:O	42:BM:95:LYS:HG2	2.12	0.49
45:BP:78:GLN:O	45:BP:79:GLU:C	2.55	0.49
45:BP:85:ILE:CG1	45:BP:99:HIS:O	2.60	0.49
47:BR:10:ALA:C	47:BR:12:ARG:N	2.64	0.49
50:BU:58:GLU:OE1	50:BU:58:GLU:C	2.55	0.49
51:BV:22:VAL:HG13	51:BV:55:ARG:HH12	1.77	0.49
52:BW:9:VAL:HA	52:BW:42:PRO:HD2	1.94	0.49
52:BW:31:ILE:O	52:BW:33:THR:N	2.45	0.49
52:BW:71:LEU:O	52:BW:72:GLY:C	2.54	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:72:LEU:CD2	53:BX:76:ALA:CB	2.86	0.49
53:BX:100:ILE:C	53:BX:102:GLY:H	2.14	0.49
54:BY:4:GLY:C	54:BY:6:ARG:H	2.18	0.49
55:CA:10:ILE:HG22	55:CA:10:ILE:O	2.12	0.49
55:CA:99:VAL:N	55:CA:126:VAL:O	2.45	0.49
55:CA:102:PHE:CG	55:CA:135:ALA:HB2	2.47	0.49
55:CA:217:TYR:O	55:CA:219:GLY:N	2.42	0.49
55:CA:514:HIS:HA	55:CA:516:ALA:N	2.27	0.49
1:AA:91:A:H3'	1:AA:92:G:H8	1.75	0.49
1:AA:303:U:C2	1:AA:304:G:C8	3.00	0.49
1:AA:400:G:C8	1:AA:400:G:C3'	2.95	0.49
1:AA:410:G:C2	1:AA:2407:G:N7	2.80	0.49
1:AA:446:G:OP2	1:AA:446:G:O4'	2.29	0.49
1:AA:487:C:O5'	1:AA:487:C:H6	1.95	0.49
1:AA:493:G:N2	1:AA:494:G:C1'	2.75	0.49
1:AA:514:A:H2'	1:AA:514:A:N3	2.27	0.49
1:AA:520:G:OP1	20:AT:25:ARG:NH2	2.43	0.49
1:AA:592:G:N3	1:AA:592:G:H2'	2.27	0.49
1:AA:629:G:N2	1:AA:635:C:C2	2.81	0.49
1:AA:699:A:H1'	1:AA:1634:A:C8	2.47	0.49
1:AA:742:G:O2'	1:AA:743:G:H5'	2.13	0.49
1:AA:744:G:H5'	1:AA:1659:U:OP1	2.12	0.49
1:AA:848:G:N2	1:AA:933:A:H1'	2.22	0.49
1:AA:858:U:C5	1:AA:859:G:N2	2.80	0.49
1:AA:957:A:OP2	14:AN:77:LYS:CD	2.46	0.49
1:AA:1009:A:O4'	18:AR:59:ARG:CZ	2.59	0.49
1:AA:1011:G:O2'	1:AA:1013:C:C4'	2.60	0.49
1:AA:1019:U:H5'	1:AA:1035:U:O2'	2.12	0.49
1:AA:1062:G:C1'	1:AA:1063:G:P	3.00	0.49
1:AA:1064:C:C6	1:AA:1065:U:C5	3.00	0.49
1:AA:1263:U:C5'	28:Ab:10:LYS:NZ	2.69	0.49
1:AA:1288:U:C2	1:AA:1327:C:O2	2.66	0.49
1:AA:1304:C:C4	1:AA:1305:C:C5	3.01	0.49
1:AA:1364:G:C5	1:AA:1366:A:OP1	2.65	0.49
1:AA:1373:A:C8	1:AA:1374:G:N7	2.80	0.49
1:AA:1439:A:H2'	1:AA:1440:G:O4'	2.12	0.49
1:AA:1613:G:N2	1:AA:1619:G:N9	2.60	0.49
1:AA:1633:G:C5	1:AA:1635:G:N1	2.81	0.49
1:AA:1667:G:N3	1:AA:1667:G:C2'	2.64	0.49
1:AA:1675:C:H2'	1:AA:1676:A:H5'	1.93	0.49
1:AA:1857:G:C5	1:AA:1858:G:O6	2.66	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1952:A:C2	12:AL:22:ILE:HG12	2.39	0.49
1:AA:1967:C:O2	1:AA:1967:C:C2'	2.53	0.49
1:AA:1970:A:O2'	1:AA:1971:A:OP2	2.27	0.49
1:AA:1982:C:H2'	1:AA:1983:C:C6	2.47	0.49
1:AA:2019:A:C6	1:AA:2020:A:C4	3.01	0.49
1:AA:2076:U:C5'	1:AA:2077:A:P	3.00	0.49
1:AA:2305:A:C1'	7:AG:154:GLY:C	2.84	0.49
1:AA:2305:A:H62	1:AA:2306:C:H5	1.60	0.49
1:AA:2399:G:N3	29:Ac:21:TYR:CE2	2.80	0.49
1:AA:2426:A:H3'	1:AA:2427:C:H5'	1.93	0.49
1:AA:2452:C:O2'	1:AA:2453:A:H5'	2.13	0.49
1:AA:2507:C:C4	1:AA:2508:G:N7	2.80	0.49
1:AA:2544:G:H2'	1:AA:2545:G:C5'	2.42	0.49
1:AA:2576:G:O2'	1:AA:2612:C:N4	2.46	0.49
1:AA:2589:A:C2'	1:AA:2590:A:H5'	2.41	0.49
1:AA:2630:G:O2'	1:AA:2892:A:O2'	2.25	0.49
1:AA:2656:U:C2'	1:AA:2657:A:H5''	2.40	0.49
1:AA:2681:C:C4	1:AA:2725:A:N6	2.75	0.49
1:AA:2717:G:HO2'	1:AA:2718:G:P	2.33	0.49
1:AA:2812:G:C2	1:AA:2813:A:C5	3.01	0.49
1:AA:2830:G:H5'	5:AE:57:LYS:CE	2.42	0.49
2:AB:12:C:C5'	24:AX:74:ARG:CG	2.86	0.49
2:AB:28:C:O5'	2:AB:28:C:C6	2.57	0.49
2:AB:75:G:H21	23:AW:27:VAL:HG21	1.76	0.49
3:AC:8:ARG:O	3:AC:12:GLU:HG2	2.12	0.49
3:AC:211:SER:HA	3:AC:223:ARG:HE	1.78	0.49
4:AD:71:ASP:O	4:AD:72:LYS:CB	2.59	0.49
4:AD:75:ILE:HD13	4:AD:99:ASP:CB	2.39	0.49
4:AD:97:TYR:HB3	4:AD:99:ASP:OD1	2.12	0.49
4:AD:143:HIS:NE2	4:AD:192:THR:HG21	2.25	0.49
4:AD:224:ALA:HB2	4:AD:233:HIS:CG	2.47	0.49
5:AE:55:ASN:HA	5:AE:73:GLU:OE2	2.13	0.49
5:AE:55:ASN:O	5:AE:57:LYS:N	2.45	0.49
5:AE:148:GLY:C	5:AE:149:ARG:HG3	2.37	0.49
6:AF:7:TYR:HD2	6:AF:119:ARG:HB3	1.77	0.49
6:AF:33:LEU:HD23	6:AF:112:MET:SD	2.52	0.49
6:AF:36:VAL:HG11	6:AF:183:VAL:CG2	2.41	0.49
6:AF:45:ARG:HG2	6:AF:97:TYR:CG	2.47	0.49
7:AG:47:LYS:CB	7:AG:53:LEU:HD11	2.35	0.49
8:AH:7:LEU:CD1	8:AH:65:HIS:NE2	2.73	0.49
8:AH:33:LEU:HD22	8:AH:75:ALA:CB	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:58:GLU:HG2	8:AH:59:ARG:N	2.27	0.49
8:AH:87:LEU:O	8:AH:131:VAL:C	2.55	0.49
12:AL:89:ASN:ND2	12:AL:91:LEU:CB	2.66	0.49
14:AN:8:LYS:HZ3	14:AN:11:LYS:HE2	1.75	0.49
14:AN:42:ILE:CG2	14:AN:42:ILE:O	2.58	0.49
14:AN:59:ARG:NH2	14:AN:62:GLY:H	2.10	0.49
14:AN:66:ILE:O	14:AN:67:ARG:HB3	2.12	0.49
14:AN:104:PHE:C	14:AN:105:GLU:OE1	2.55	0.49
15:AO:100:LEU:HD12	15:AO:101:ALA:H	1.76	0.49
15:AO:105:ARG:HA	15:AO:105:ARG:NH1	2.24	0.49
16:AP:30:ARG:HD2	16:AP:91:PRO:CG	2.42	0.49
16:AP:57:LYS:HD3	16:AP:57:LYS:C	2.37	0.49
17:AQ:2:ASN:C	17:AQ:6:LEU:HD22	2.37	0.49
17:AQ:26:ASP:HA	17:AQ:100:TYR:HH	1.75	0.49
17:AQ:30:VAL:HG23	17:AQ:31:SER:H	1.77	0.49
17:AQ:68:TYR:CE1	17:AQ:70:VAL:HA	2.47	0.49
17:AQ:104:ASN:O	17:AQ:105:LEU:O	2.31	0.49
18:AR:81:HIS:CB	18:AR:117:GLN:HE22	2.25	0.49
19:AS:32:THR:HA	19:AS:64:HIS:C	2.26	0.49
20:AT:21:VAL:CG2	20:AT:75:TYR:HD1	2.25	0.49
20:AT:23:LEU:HD21	28:Ab:25:LEU:O	2.13	0.49
20:AT:31:GLU:CD	20:AT:31:GLU:H	2.18	0.49
22:AV:57:GLN:O	22:AV:58:GLY:C	2.55	0.49
22:AV:75:ILE:O	22:AV:75:ILE:HD12	2.12	0.49
22:AV:81:LYS:CE	22:AV:96:ILE:HG12	2.42	0.49
23:AW:25:PRO:HG2	23:AW:84:GLU:O	2.12	0.49
23:AW:41:LEU:O	23:AW:45:ASP:OD1	2.29	0.49
23:AW:158:PRO:CB	23:AW:159:PRO:CD	2.89	0.49
24:AX:1:MET:O	24:AX:2:ALA:CB	2.61	0.49
27:Aa:7:PRO:HG2	27:Aa:60:GLN:CD	2.36	0.49
27:Aa:29:PRO:O	27:Aa:31:ILE:HD12	2.12	0.49
30:Ad:22:MET:CA	30:Ad:28:ARG:HG2	2.42	0.49
31:Ae:25:MET:HE3	31:Ae:44:LYS:HE2	1.91	0.49
34:BA:78:G:C6	34:BA:79:G:C5	3.01	0.49
34:BA:132:C:C2	34:BA:133:U:C5	3.00	0.49
34:BA:245:C:N3	34:BA:284:G:N1	2.59	0.49
34:BA:247:G:O2'	34:BA:248:C:H5'	2.12	0.49
34:BA:327:A:C2	34:BA:329:A:N3	2.80	0.49
34:BA:336:C:C2	34:BA:337:C:C5	2.99	0.49
34:BA:571:U:OP1	34:BA:819:A:C8	2.65	0.49
34:BA:586:C:P	50:BU:34:LYS:HZ2	2.36	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:607:A:C2'	34:BA:608:A:H5'	2.43	0.49
34:BA:622:A:H2'	34:BA:623:C:H5'	1.94	0.49
34:BA:643:C:C2	34:BA:644:G:C8	3.00	0.49
34:BA:745:C:H2'	34:BA:746:A:H8	1.77	0.49
34:BA:778:G:C5	34:BA:779:C:C5	2.99	0.49
34:BA:778:G:C6	34:BA:779:C:C4	2.99	0.49
34:BA:829:G:O2'	34:BA:830:G:H5'	2.12	0.49
34:BA:931:C:N3	34:BA:1387:G:N1	2.60	0.49
34:BA:962:C:N3	34:BA:974:A:N1	2.59	0.49
34:BA:1226:C:O3'	46:BQ:111:LYS:NZ	2.37	0.49
34:BA:1305:G:P	34:BA:1305:G:O4'	2.71	0.49
34:BA:1324:A:C6	34:BA:1325:C:C4	3.00	0.49
34:BA:1477:C:H6	34:BA:1477:C:O5'	1.95	0.49
34:BA:1494:G:N7	56:BA:1601:NMY:H82	2.27	0.49
35:BF:42:ILE:HG12	35:BF:43:ASP:N	2.16	0.49
36:BG:15:THR:HG21	36:BG:181:ASN:N	2.26	0.49
37:BH:100:ARG:NH2	37:BH:136:PRO:O	2.44	0.49
38:BI:114:GLY:C	38:BI:115:VAL:HG13	2.36	0.49
39:BJ:11:ASN:ND2	39:BJ:86:ARG:HH22	2.06	0.49
39:BJ:67:MET:N	39:BJ:67:MET:HE3	2.27	0.49
40:BK:68:ASN:ND2	40:BK:128:ALA:HA	2.27	0.49
41:BL:15:ASN:O	41:BL:16:ALA:C	2.55	0.49
41:BL:40:ALA:CB	41:BL:45:ILE:HG23	2.41	0.49
45:BP:110:VAL:HG21	45:BP:113:ARG:HG3	1.95	0.49
46:BQ:10:PRO:HB2	46:BQ:45:VAL:CG2	2.42	0.49
46:BQ:97:PRO:HB3	46:BQ:101:GLN:HE21	1.77	0.49
47:BR:26:ARG:HB3	47:BR:43:CYS:HB3	1.94	0.49
48:BS:62:GLN:HA	48:BS:65:ARG:HH12	1.77	0.49
48:BS:62:GLN:N	48:BS:65:ARG:HH12	2.10	0.49
50:BU:22:LEU:HD13	50:BU:41:LYS:CA	2.42	0.49
50:BU:29:HIS:CD2	50:BU:30:PRO:HD2	2.47	0.49
50:BU:59:ILE:CD1	50:BU:60:ILE:H	2.12	0.49
50:BU:81:ARG:HG3	50:BU:84:LEU:HG	1.93	0.49
51:BV:74:ARG:NH1	51:BV:81:PHE:HB3	2.27	0.49
53:BX:88:VAL:O	53:BX:92:LEU:HD12	2.11	0.49
55:CA:26:LEU:HD13	55:CA:26:LEU:N	2.27	0.49
55:CA:29:SER:CB	55:CA:60:ASN:OD1	2.60	0.49
55:CA:37:GLU:CA	55:CA:39:GLN:HB3	2.33	0.49
55:CA:237:VAL:C	55:CA:291:THR:HG22	2.31	0.49
55:CA:309:MET:HE3	55:CA:366:LEU:HD13	1.95	0.49
55:CA:401:GLU:HB3	55:CA:467:SER:CB	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:481:GLY:HA2	55:CA:482:GLN:O	2.12	0.49
1:AA:86:C:H2'	1:AA:87:C:H6	1.78	0.49
1:AA:284:U:H2'	1:AA:285:C:C6	2.47	0.49
1:AA:530:G:N2	1:AA:2021:C:C6	2.80	0.49
1:AA:588:U:O4'	6:AF:90:PHE:CD2	2.66	0.49
1:AA:691:C:C2'	4:AD:45:ASN:HD21	2.25	0.49
1:AA:775:G:O2'	1:AA:794:G:C8	2.61	0.49
1:AA:780:G:H2'	1:AA:782:A:C5	2.47	0.49
1:AA:820:A:N7	1:AA:973:A:N6	2.60	0.49
1:AA:896:A:C2	1:AA:897:C:C4	3.01	0.49
1:AA:931:G:C2	26:AZ:24:LYS:HB3	2.46	0.49
1:AA:989:G:O2'	1:AA:990:A:P	2.70	0.49
1:AA:1051:G:C3'	1:AA:1052:C:C5'	2.91	0.49
1:AA:1128:A:C5	1:AA:2518:A:N6	2.80	0.49
1:AA:1212:G:H3'	1:AA:1212:G:H8	1.77	0.49
1:AA:1348:G:C6	1:AA:1349:A:C6	3.01	0.49
1:AA:1381:G:C6	1:AA:1382:G:C5	3.00	0.49
1:AA:1420:U:O2'	1:AA:1421:G:C5'	2.60	0.49
1:AA:1439:A:N7	1:AA:1440:G:N9	2.61	0.49
1:AA:1567:A:N1	4:AD:85:ASP:C	2.70	0.49
1:AA:1650:G:HO2'	1:AA:1651:G:P	2.33	0.49
1:AA:1651:G:N2	1:AA:1652:A:C2	2.80	0.49
1:AA:1747:G:H2'	1:AA:1748:G:H8	1.77	0.49
1:AA:1781:C:H2'	1:AA:1782:C:OP2	2.12	0.49
1:AA:1897:G:C6	1:AA:1898:U:C2	3.01	0.49
1:AA:2014:A:N3	1:AA:2015:A:C2	2.81	0.49
1:AA:2059:A:O3'	6:AF:69:HIS:O	2.30	0.49
1:AA:2097:C:H2'	1:AA:2098:U:H5'	1.88	0.49
1:AA:2195:C:C2'	1:AA:2196:C:O4'	2.57	0.49
1:AA:2296:U:O4	16:AP:5:THR:HG23	2.12	0.49
1:AA:2304:G:N2	7:AG:156:ASP:OD2	2.46	0.49
1:AA:2305:A:H3'	1:AA:2306:C:C5'	2.43	0.49
1:AA:2389:G:OP1	1:AA:2390:U:H5'	2.13	0.49
1:AA:2405:G:C2'	1:AA:2406:U:OP2	2.60	0.49
1:AA:2468:G:C5	1:AA:2481:G:C2	3.00	0.49
1:AA:2472:G:N2	1:AA:2477:C:OP1	2.33	0.49
1:AA:2617:C:C2	1:AA:2618:G:H8	2.30	0.49
1:AA:2876:G:H5'	17:AQ:1:MET:H2	1.74	0.49
2:AB:50:G:C4'	16:AP:61:ASN:OD1	2.51	0.49
2:AB:83:G:H5'	26:AZ:52:HIS:CE1	2.48	0.49
3:AC:49:ILE:HG13	3:AC:50:ASP:N	2.26	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:141:VAL:HG12	4:AD:194:GLY:O	2.12	0.49
4:AD:246:PRO:HD2	4:AD:250:TRP:CA	2.42	0.49
5:AE:8:LYS:CA	5:AE:8:LYS:CE	2.78	0.49
5:AE:144:ARG:O	5:AE:146:THR:N	2.44	0.49
5:AE:176:ILE:HD11	5:AE:178:GLU:HB2	1.94	0.49
5:AE:176:ILE:HD11	5:AE:179:GLU:HG2	1.93	0.49
8:AH:105:LEU:HB2	8:AH:113:VAL:CG1	2.33	0.49
8:AH:125:VAL:N	8:AH:126:PRO:CD	2.76	0.49
10:AJ:51:ALA:O	10:AJ:72:PRO:CA	2.59	0.49
11:AK:31:ALA:C	11:AK:33:LEU:N	2.69	0.49
11:AK:135:PRO:O	11:AK:136:GLU:O	2.29	0.49
13:AM:95:VAL:C	13:AM:97:PRO:CD	2.79	0.49
14:AN:46:GLN:NE2	14:AN:126:PRO:HG3	2.28	0.49
14:AN:109:VAL:HG22	14:AN:113:GLN:CB	2.39	0.49
15:AO:28:LEU:HD21	15:AO:115:GLU:HA	1.94	0.49
15:AO:72:ASP:OD2	15:AO:74:LYS:NZ	2.38	0.49
15:AO:98:LEU:N	15:AO:114:VAL:HG22	2.27	0.49
19:AS:73:SER:OG	19:AS:89:GLN:CB	2.56	0.49
21:AU:88:LYS:O	21:AU:89:ILE:HB	2.12	0.49
22:AV:7:VAL:HG11	22:AV:72:VAL:H	1.78	0.49
25:AY:19:LEU:CD1	25:AY:55:LEU:HG	2.42	0.49
27:Aa:65:ASP:HA	27:Aa:68:ARG:HH12	1.78	0.49
30:Ad:45:ALA:O	30:Ad:46:VAL:C	2.56	0.49
34:BA:66:G:C4'	34:BA:173:U:O4	2.59	0.49
34:BA:136:C:H2'	34:BA:137:C:H6	1.77	0.49
34:BA:270:A:O2'	34:BA:271:C:C5'	2.56	0.49
34:BA:307:C:N4	34:BA:308:C:N4	2.58	0.49
34:BA:323:U:H3'	34:BA:323:U:C6	2.47	0.49
34:BA:363:A:C8	45:BP:30:ALA:HB1	2.48	0.49
34:BA:424:G:C4	34:BA:425:G:C8	3.00	0.49
34:BA:442:C:O2	34:BA:442:C:C2'	2.61	0.49
34:BA:445:G:H2'	34:BA:446:G:H8	1.77	0.49
34:BA:447:G:N2	34:BA:486:U:C5	2.81	0.49
34:BA:451:A:O2'	34:BA:452:A:C8	2.65	0.49
34:BA:465:A:N6	34:BA:467:G:N3	2.60	0.49
34:BA:494:U:H2'	34:BA:495:A:C5'	2.42	0.49
34:BA:505:G:N1	34:BA:535:A:C2	2.81	0.49
34:BA:521:G:C5	34:BA:529:G:N2	2.81	0.49
34:BA:529:G:C6	45:BP:49:ASN:ND2	2.81	0.49
34:BA:711:G:O2'	34:BA:712:A:C5'	2.60	0.49
34:BA:850:U:C2	34:BA:851:G:N7	2.80	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:972:C:OP2	43:BN:57:LYS:HD2	2.13	0.49
34:BA:1279:A:O2'	34:BA:1282:C:N4	2.44	0.49
34:BA:1478:C:O2'	34:BA:1479:C:H5'	2.12	0.49
35:BF:78:GLN:NE2	35:BF:96:ARG:NH1	2.57	0.49
35:BF:136:VAL:CA	35:BF:139:LYS:HZ2	2.25	0.49
35:BF:234:PRO:O	35:BF:238:LEU:HD22	2.12	0.49
36:BG:27:LYS:O	36:BG:28:GLN:HB3	2.11	0.49
36:BG:29:TYR:HB3	47:BR:36:PHE:CE1	2.45	0.49
36:BG:176:HIS:O	36:BG:178:LEU:N	2.46	0.49
37:BH:64:LEU:CD1	37:BH:75:PHE:CZ	2.95	0.49
37:BH:101:LEU:O	37:BH:102:ASP:C	2.56	0.49
37:BH:104:VAL:HG23	37:BH:105:VAL:N	2.27	0.49
38:BI:51:VAL:HB	38:BI:52:PRO:CD	2.21	0.49
38:BI:140:ARG:O	38:BI:141:GLN:C	2.52	0.49
39:BJ:76:ALA:HB1	39:BJ:80:ARG:CZ	2.39	0.49
40:BK:115:ARG:O	40:BK:118:VAL:CB	2.60	0.49
44:BO:18:ARG:HG2	44:BO:18:ARG:NH1	2.26	0.49
44:BO:24:SER:OG	44:BO:25:TYR:N	2.39	0.49
44:BO:84:VAL:HG21	51:BV:88:LYS:NZ	2.27	0.49
45:BP:35:GLY:HA3	45:BP:60:LEU:HB3	1.93	0.49
45:BP:42:THR:CA	45:BP:55:VAL:HG23	2.42	0.49
46:BQ:11:ARG:C	46:BQ:44:ARG:O	2.52	0.49
49:BT:14:ASN:CA	49:BT:42:ARG:NH2	2.76	0.49
50:BU:26:GLN:O	50:BU:27:PHE:HB3	2.12	0.49
52:BW:40:ILE:HB	52:BW:68:GLY:HA2	1.93	0.49
53:BX:40:ALA:CA	53:BX:55:ILE:HG21	2.42	0.49
55:CA:13:HIS:CD2	55:CA:109:THR:HG23	2.34	0.49
55:CA:205:PHE:CD1	55:CA:229:GLY:C	2.85	0.49
55:CA:311:PHE:O	55:CA:356:PHE:N	2.45	0.49
55:CA:496:ALA:H	55:CA:515:GLY:C	2.20	0.49
55:CA:601:ASN:HA	55:CA:602:ARG:CB	2.42	0.49
1:AA:61:G:H2'	1:AA:62:C:H6	1.71	0.49
1:AA:71:A:C2	1:AA:73:A:N1	2.80	0.49
1:AA:72:U:H1'	25:AY:53:ALA:HA	1.95	0.49
1:AA:112:U:C3'	1:AA:113:G:C5'	2.68	0.49
1:AA:126:A:O2'	1:AA:127:A:H5'	2.11	0.49
1:AA:270(A):A:C8	1:AA:370:G:O4'	2.65	0.49
1:AA:307:G:H22	1:AA:310:A:C5'	2.25	0.49
1:AA:498:G:O5'	1:AA:498:G:C8	2.61	0.49
1:AA:503:A:C5	1:AA:505:A:N7	2.81	0.49
1:AA:514:A:C2	1:AA:515:A:C1'	2.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:602:G:H4'	1:AA:603:A:O3'	2.12	0.49
1:AA:656:G:C5	1:AA:657:U:C4	3.01	0.49
1:AA:685:A:H5''	1:AA:686:G:H22	1.70	0.49
1:AA:704:G:C2	1:AA:725:G:N2	2.80	0.49
1:AA:849:A:N3	1:AA:850:C:C6	2.81	0.49
1:AA:870:A:H2'	1:AA:871:U:O4'	2.13	0.49
1:AA:903:C:O5'	1:AA:903:C:H6	1.95	0.49
1:AA:909:A:C2	1:AA:912:C:C1'	2.95	0.49
1:AA:919:G:H21	1:AA:2268:A:H5''	1.77	0.49
1:AA:1175:U:H3'	1:AA:1176:G:O4'	2.13	0.49
1:AA:1183:G:C1'	1:AA:1184:G:C8	2.93	0.49
1:AA:1256:G:O2'	1:AA:1257:C:H5'	2.13	0.49
1:AA:1314:C:H2'	1:AA:1315:C:H6	1.78	0.49
1:AA:1372:U:O2'	1:AA:1373:A:H5'	2.11	0.49
1:AA:1414:G:N2	1:AA:1415:U:C2	2.81	0.49
1:AA:1420:U:O2'	1:AA:1421:G:C8	2.63	0.49
1:AA:1485:G:H2'	1:AA:1486:A:H8	1.74	0.49
1:AA:1583:A:OP2	1:AA:1586:A:O3'	2.30	0.49
1:AA:1657:C:OP1	5:AE:136:ARG:O	2.30	0.49
1:AA:1672:C:H2'	1:AA:1673:U:H5''	1.94	0.49
1:AA:1769:G:N1	1:AA:1984:G:C5	2.80	0.49
1:AA:2146:C:N3	1:AA:2147:G:C1'	2.75	0.49
1:AA:2254:C:O2	24:AX:7:LEU:HD11	2.13	0.49
1:AA:2297:C:C2	1:AA:2333:A:N6	2.80	0.49
1:AA:2298:A:H62	1:AA:2318:G:H21	1.58	0.49
1:AA:2349:G:C4	1:AA:2369:A:C2	3.01	0.49
1:AA:2471:C:H2'	1:AA:2472:G:O5'	2.12	0.49
1:AA:2525:G:C2	1:AA:2539:C:N4	2.80	0.49
1:AA:2526:G:C2'	1:AA:2527:C:O5'	2.61	0.49
1:AA:2527:C:O2'	1:AA:2528:U:C5'	2.61	0.49
1:AA:2573:C:P	1:AA:2574:G:OP1	2.71	0.49
1:AA:2589:A:C4	1:AA:2590:A:C8	3.01	0.49
1:AA:2630:G:N1	1:AA:2789:C:N4	2.60	0.49
1:AA:2648:C:C2	1:AA:2649:U:C4	3.01	0.49
1:AA:2668:G:N1	1:AA:2669:G:C6	2.80	0.49
1:AA:2694:G:C6	1:AA:2695:C:N4	2.80	0.49
1:AA:2766:G:C2	1:AA:2767:C:C6	3.00	0.49
1:AA:2787:C:H1'	5:AE:61:ARG:CZ	2.43	0.49
1:AA:2811:G:N1	1:AA:2891:G:C2	2.80	0.49
1:AA:2850:A:C5	1:AA:2851:A:N7	2.80	0.49
1:AA:2854:G:H2'	1:AA:2855:C:C6	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:32:C:C2	2:AB:33:G:C8	3.01	0.49
2:AB:81:G:C5	2:AB:82:G:N7	2.80	0.49
2:AB:86:G:C2	2:AB:91:C:C2	3.00	0.49
2:AB:100:G:H2'	2:AB:101:A:O4'	2.13	0.49
4:AD:5:LYS:CA	4:AD:28:GLU:HB2	2.43	0.49
4:AD:27:THR:HG22	4:AD:29:PRO:HD3	1.90	0.49
4:AD:61:LEU:O	4:AD:62:TYR:CB	2.60	0.49
4:AD:117:VAL:CG1	4:AD:118:VAL:N	2.74	0.49
4:AD:123:ALA:HB3	4:AD:131:LEU:HD22	1.94	0.49
4:AD:127:VAL:HG22	4:AD:194:GLY:HA2	1.94	0.49
4:AD:246:PRO:HG2	4:AD:250:TRP:HB3	1.89	0.49
5:AE:8:LYS:CD	5:AE:8:LYS:C	2.85	0.49
5:AE:37:ARG:O	5:AE:39:PRO:CD	2.60	0.49
5:AE:136:ARG:NH2	5:AE:137:HIS:HA	2.28	0.49
5:AE:149:ARG:HH21	5:AE:151:TYR:C	2.21	0.49
6:AF:43:LYS:HG3	6:AF:98:SER:C	2.37	0.49
6:AF:64:ILE:HD13	6:AF:64:ILE:C	2.33	0.49
6:AF:98:SER:O	6:AF:99:TYR:CB	2.58	0.49
6:AF:101:LEU:HD13	6:AF:101:LEU:C	2.38	0.49
6:AF:162:LEU:O	6:AF:165:ARG:HB3	2.11	0.49
7:AG:80:PHE:CD2	7:AG:81:LYS:N	2.68	0.49
8:AH:33:LEU:HD22	8:AH:75:ALA:HB2	1.94	0.49
11:AK:70:LYS:HD3	11:AK:86:PRO:HA	1.94	0.49
13:AM:23:PRO:HG2	13:AM:28:GLY:C	2.38	0.49
14:AN:42:ILE:O	14:AN:94:VAL:CB	2.57	0.49
15:AO:105:ARG:CA	15:AO:105:ARG:NH1	2.76	0.49
16:AP:6:ALA:O	16:AP:7:TYR:C	2.55	0.49
18:AR:69:CYS:SG	18:AR:70:ARG:N	2.85	0.49
19:AS:22:VAL:O	19:AS:93:GLU:OE1	2.31	0.49
19:AS:34:GLU:O	19:AS:35:LEU:CD1	2.58	0.49
20:AT:29:LEU:O	20:AT:30:GLU:C	2.55	0.49
20:AT:42:ARG:CG	20:AT:43:GLY:H	2.26	0.49
20:AT:64:MET:HB3	20:AT:109:GLU:HG3	1.94	0.49
21:AU:58:HIS:NE2	21:AU:77:LYS:NZ	2.56	0.49
23:AW:40:ASP:O	23:AW:44:PHE:HD1	1.96	0.49
23:AW:95:PRO:HD2	23:AW:131:ARG:N	2.28	0.49
23:AW:102:LEU:HB2	23:AW:124:ILE:CA	2.41	0.49
23:AW:105:VAL:HG12	23:AW:107:THR:HG23	1.94	0.49
25:AY:14:VAL:O	25:AY:18:LYS:HG2	2.12	0.49
25:AY:20:VAL:HG23	25:AY:52:ILE:CG2	2.30	0.49
25:AY:28:MET:O	25:AY:31:ARG:N	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:54:ILE:C	29:Ac:54:ILE:CD1	2.85	0.49
31:Ae:27:THR:N	31:Ae:44:LYS:HZ1	2.10	0.49
32:Af:9:ARG:O	32:Af:10:ILE:HG13	2.12	0.49
34:BA:15:G:C2	34:BA:16:A:C5	3.01	0.49
34:BA:85:U:C2'	34:BA:86:U:H5'	2.43	0.49
34:BA:110:C:O5'	34:BA:110:C:C6	2.65	0.49
34:BA:151:A:C5	34:BA:152:A:N3	2.80	0.49
34:BA:306:G:O5'	34:BA:306:G:C8	2.64	0.49
34:BA:315:A:H2'	34:BA:315:A:N3	2.27	0.49
34:BA:345:C:H5'	34:BA:346:G:C4	2.48	0.49
34:BA:366:C:HO2'	34:BA:367:U:P	2.36	0.49
34:BA:407:G:C1'	37:BH:119:GLN:OE1	2.60	0.49
34:BA:410:G:N2	34:BA:429:U:N3	2.60	0.49
34:BA:423:G:N2	34:BA:424:G:C4	2.80	0.49
34:BA:468:A:C5	34:BA:474:G:C5	3.00	0.49
34:BA:518:C:H3'	34:BA:530:G:H21	1.76	0.49
34:BA:598:U:O2'	34:BA:599:C:H5'	2.12	0.49
34:BA:707:C:H2'	34:BA:708:C:O5'	2.13	0.49
34:BA:826:C:C2	34:BA:827:U:C5	3.01	0.49
34:BA:843:U:H3	35:BF:37:ASN:HA	1.77	0.49
34:BA:901:A:N3	34:BA:902:G:C1'	2.74	0.49
34:BA:1042:G:O2'	34:BA:1043:C:H5'	2.12	0.49
34:BA:1181:G:N7	34:BA:1182:G:C2	2.80	0.49
34:BA:1274:G:H2'	34:BA:1275:A:H8	1.78	0.49
34:BA:1320:C:H3'	34:BA:1321:C:C5	2.47	0.49
34:BA:1340:A:H2'	34:BA:1341:U:C6	2.47	0.49
34:BA:1377:A:O2'	34:BA:1378:C:P	2.71	0.49
34:BA:1399:C:O2	34:BA:1401:G:C5	2.66	0.49
34:BA:1454:G:OP2	53:BX:39:LYS:NZ	2.45	0.49
34:BA:1504:G:HO2'	34:BA:1505:G:P	2.26	0.49
35:BF:15:VAL:HG21	35:BF:209:ARG:CB	2.42	0.49
35:BF:25:ASN:O	35:BF:26:PRO:C	2.56	0.49
35:BF:28:PHE:CE1	35:BF:31:TYR:HB2	2.48	0.49
35:BF:76:GLN:O	35:BF:211:ILE:CD1	2.61	0.49
36:BG:6:HIS:O	36:BG:8:ILE:N	2.45	0.49
36:BG:64:VAL:HG12	36:BG:66:VAL:HG23	1.95	0.49
36:BG:114:PRO:HD3	36:BG:183:ASP:OD2	2.12	0.49
36:BG:138:VAL:HG12	36:BG:170:GLN:HE21	1.77	0.49
37:BH:8:VAL:O	37:BH:11:LEU:HB2	2.11	0.49
37:BH:76:ARG:HG3	37:BH:207:TYR:CE2	2.46	0.49
37:BH:78:LEU:HD13	37:BH:96:LEU:CB	2.38	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:19:MET:HE3	38:BI:20:GLN:N	2.27	0.49
38:BI:54:ALA:O	38:BI:57:LYS:HB3	2.13	0.49
38:BI:144:THR:C	38:BI:146:ALA:N	2.68	0.49
39:BJ:7:ASN:O	39:BJ:89:MET:O	2.30	0.49
40:BK:37:ASN:O	40:BK:38:LEU:C	2.53	0.49
41:BL:100:ILE:H	41:BL:100:ILE:CD1	2.05	0.49
42:BM:27:THR:HG21	42:BM:62:TYR:CE1	2.47	0.49
45:BP:82:VAL:HB	45:BP:106:ASP:OD2	2.13	0.49
45:BP:100:ILE:H	45:BP:100:ILE:CD1	2.21	0.49
48:BS:59:MET:O	48:BS:62:GLN:HB3	2.13	0.49
48:BS:63:ARG:HH12	48:BS:87:ILE:HD13	1.76	0.49
49:BT:7:ALA:O	49:BT:17:TYR:HA	2.11	0.49
49:BT:42:ARG:C	49:BT:43:LYS:HD2	2.38	0.49
53:BX:54:LYS:O	53:BX:57:ARG:CB	2.56	0.49
55:CA:27:GLN:HG3	55:CA:28:GLN:CD	2.34	0.49
55:CA:384:ARG:HA	55:CA:384:ARG:NE	2.27	0.49
55:CA:436:ARG:O	55:CA:437:VAL:HB	2.11	0.49
1:AA:35:G:H21	1:AA:450:G:H21	1.58	0.49
1:AA:92:G:O2'	1:AA:93:C:H5'	2.13	0.49
1:AA:196:A:N1	1:AA:828:U:C5'	2.61	0.49
1:AA:253:C:C2'	1:AA:254:G:C5'	2.91	0.49
1:AA:372:G:OP2	1:AA:373:U:OP2	2.31	0.49
1:AA:415:A:C2	1:AA:416:C:H1'	2.47	0.49
1:AA:462:C:C5	1:AA:468:G:N2	2.80	0.49
1:AA:483:A:H62	1:AA:497:A:H2	1.60	0.49
1:AA:540:G:C5	1:AA:541:C:C5	3.00	0.49
1:AA:587:C:O2'	1:AA:588:U:P	2.71	0.49
1:AA:591:C:C2	1:AA:592:G:C8	3.01	0.49
1:AA:627:A:P	1:AA:637:A:N6	2.85	0.49
1:AA:640:C:H42	1:AA:647:G:H1	1.58	0.49
1:AA:692:C:H2'	1:AA:693:C:O5'	2.13	0.49
1:AA:800:A:N9	1:AA:802:A:H5'	2.27	0.49
1:AA:868:U:C4	1:AA:869:G:N7	2.80	0.49
1:AA:918:A:H2	1:AA:919:G:C4	2.30	0.49
1:AA:955:C:H5''	14:AN:87:LYS:HD2	1.95	0.49
1:AA:962:G:C2	1:AA:963:U:C2	3.00	0.49
1:AA:1011:G:H5'	1:AA:1012:U:OP2	2.13	0.49
1:AA:1013:C:OP2	1:AA:1142:U:O2	2.30	0.49
1:AA:1024:G:OP2	1:AA:1026:U:OP1	2.30	0.49
1:AA:1077:A:H2	10:AJ:133:SER:O	1.95	0.49
1:AA:1155:A:O2'	1:AA:1156:A:C5'	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1272:A:H5'	1:AA:1646:C:C2	2.47	0.49
1:AA:1284:A:C2	1:AA:1285:G:N2	2.81	0.49
1:AA:1314:C:C6	1:AA:1314:C:O5'	2.65	0.49
1:AA:1451:C:H5''	1:AA:1453:A:H4'	1.93	0.49
1:AA:1595:G:N2	1:AA:1596:A:H1'	2.27	0.49
1:AA:1692:U:H1'	1:AA:1696:G:H21	1.71	0.49
1:AA:1747:G:C2	1:AA:1748:G:C8	3.01	0.49
1:AA:1833:U:C2	1:AA:1834:U:O2	2.65	0.49
1:AA:1937:A:N7	1:AA:1939:U:C4	2.81	0.49
1:AA:2059:A:C2	1:AA:2503:A:N6	2.65	0.49
1:AA:2213:U:H3'	1:AA:2213:U:C2	2.47	0.49
1:AA:2235:G:N2	1:AA:2236:C:C2	2.81	0.49
1:AA:2345:G:P	29:Ac:39:TYR:HA	2.52	0.49
1:AA:2361:A:H2'	1:AA:2361:A:N3	2.26	0.49
1:AA:2464:C:C4	1:AA:2465:C:C5	3.00	0.49
1:AA:2585:U:O2	1:AA:2585:U:C2'	2.57	0.49
1:AA:2680:C:H4'	5:AE:188:VAL:HB	1.95	0.49
1:AA:2718:G:C6	1:AA:2719:G:C6	3.01	0.49
1:AA:2858:C:H3'	1:AA:2859:G:C8	2.47	0.49
2:AB:15:A:C5'	2:AB:16:G:O5'	2.61	0.49
2:AB:71:C:C2	2:AB:72:G:O4'	2.65	0.49
2:AB:99:A:H2'	2:AB:100:G:C5'	2.43	0.49
3:AC:10:LEU:HD12	3:AC:32:LEU:HD23	1.93	0.49
3:AC:77:ILE:HB	3:AC:115:ALA:CB	2.42	0.49
3:AC:102:LYS:HZ1	3:AC:107:TRP:HB2	1.77	0.49
3:AC:155:GLU:OE1	3:AC:155:GLU:HA	2.13	0.49
3:AC:161:ILE:O	3:AC:161:ILE:CG1	2.61	0.49
4:AD:23:GLU:OE1	4:AD:24:ILE:O	2.30	0.49
4:AD:24:ILE:CG2	4:AD:25:THR:N	2.76	0.49
4:AD:63:ARG:CG	4:AD:65:ILE:HG12	2.43	0.49
4:AD:79:VAL:HG12	4:AD:81:ALA:HA	1.94	0.49
4:AD:91:ARG:NH2	4:AD:198:ASN:ND2	2.60	0.49
4:AD:157:ARG:HH11	4:AD:178:PRO:CD	2.26	0.49
4:AD:181:GLU:OE1	4:AD:271:ILE:O	2.30	0.49
4:AD:246:PRO:CB	4:AD:250:TRP:HB3	2.42	0.49
5:AE:47:VAL:HA	5:AE:48:GLN:HE22	1.75	0.49
5:AE:54:GLN:CG	5:AE:57:LYS:HG3	2.43	0.49
5:AE:58:ARG:HG2	5:AE:63:LEU:HD21	1.92	0.49
6:AF:40:GLN:O	6:AF:41:LEU:C	2.55	0.49
6:AF:80:ALA:O	6:AF:81:PRO:C	2.55	0.49
6:AF:118:ALA:CB	6:AF:122:LYS:HB2	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:169:ASN:HD21	6:AF:171:PRO:HG2	1.76	0.49
6:AF:181:LEU:N	6:AF:181:LEU:CD1	2.76	0.49
7:AG:103:LEU:C	7:AG:103:LEU:HD12	2.38	0.49
8:AH:11:VAL:HG22	8:AH:76:VAL:HG11	1.94	0.49
8:AH:69:ARG:HG3	8:AH:70:THR:HG23	1.93	0.49
8:AH:137:ASP:OD2	8:AH:140:LYS:HB3	2.13	0.49
10:AJ:17:ALA:HB2	10:AJ:42:ASN:CB	2.42	0.49
10:AJ:24:GLY:C	10:AJ:26:ALA:H	2.21	0.49
10:AJ:99:ILE:O	10:AJ:103:GLN:CB	2.60	0.49
11:AK:115:ARG:HA	11:AK:118:LYS:CE	2.41	0.49
12:AL:18:LYS:CE	12:AL:44:LYS:CD	2.82	0.49
12:AL:64:ARG:NH1	12:AL:78:ARG:NH1	2.61	0.49
12:AL:106:LEU:HD12	12:AL:107:ARG:CA	2.42	0.49
12:AL:107:ARG:C	12:AL:109:LYS:N	2.65	0.49
12:AL:119:PRO:HB2	34:BA:347:G:OP2	2.08	0.49
13:AM:96:THR:HG21	13:AM:112:LEU:CD1	2.34	0.49
13:AM:97:PRO:CD	13:AM:102:ARG:CZ	2.90	0.49
13:AM:101:VAL:HG23	13:AM:101:VAL:O	2.12	0.49
14:AN:51:ARG:HD3	14:AN:52:VAL:CA	2.42	0.49
14:AN:85:LYS:HE3	14:AN:88:GLY:HA3	1.95	0.49
14:AN:112:GLU:HA	14:AN:115:MET:HB2	1.95	0.49
15:AO:14:SER:HA	15:AO:17:ARG:CG	2.41	0.49
15:AO:63:ARG:NH1	15:AO:80:PHE:CG	2.81	0.49
15:AO:97:VAL:C	15:AO:98:LEU:CG	2.85	0.49
16:AP:27:SER:O	16:AP:28:VAL:O	2.30	0.49
17:AQ:54:ARG:H	17:AQ:64:ARG:CB	2.25	0.49
17:AQ:76:PHE:CZ	17:AQ:78:LEU:CD1	2.94	0.49
17:AQ:97:ALA:C	17:AQ:99:LEU:H	2.19	0.49
18:AR:37:GLU:O	18:AR:40:PHE:N	2.45	0.49
18:AR:52:ARG:C	18:AR:54:LYS:H	2.19	0.49
18:AR:93:LYS:HA	18:AR:93:LYS:HZ3	1.71	0.49
19:AS:79:VAL:CG1	19:AS:81:TYR:CD1	2.95	0.49
20:AT:59:VAL:HG21	20:AT:66:GLU:HG3	1.94	0.49
21:AU:47:PHE:O	21:AU:48:LYS:O	2.31	0.49
22:AV:97:ARG:CZ	22:AV:101:LYS:CG	2.90	0.49
23:AW:57:ILE:HG23	23:AW:69:THR:C	2.36	0.49
24:AX:50:ASN:O	24:AX:81:VAL:HG21	2.13	0.49
25:AY:19:LEU:C	25:AY:19:LEU:HD22	2.37	0.49
25:AY:33:GLN:NE2	25:AY:33:GLN:H	2.11	0.49
27:Aa:68:ARG:HB2	27:Aa:68:ARG:CZ	2.42	0.49
29:Ac:17:LYS:HZ3	29:Ac:50:ARG:CB	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:9:G:C8	38:BI:126:ARG:CZ	2.95	0.49
34:BA:113:G:C4'	34:BA:354:G:H5''	2.43	0.49
34:BA:194:C:O2'	34:BA:195:A:H4'	2.13	0.49
34:BA:295:C:N4	34:BA:303:A:C2	2.80	0.49
34:BA:328:C:O2'	34:BA:329:A:OP2	2.31	0.49
34:BA:588:G:N3	34:BA:588:G:H2'	2.28	0.49
34:BA:908:A:C2	34:BA:909:A:C5	3.01	0.49
34:BA:1095:U:P	34:BA:1108:G:N2	2.85	0.49
34:BA:1301:U:C4	34:BA:1303:C:C6	3.00	0.49
34:BA:1377:A:C5'	34:BA:1378:C:C5	2.95	0.49
34:BA:1419:G:C2'	34:BA:1420:C:C6	2.95	0.49
34:BA:1496:C:C6	34:BA:1497:G:N7	2.80	0.49
34:BA:1510:U:C2'	34:BA:1511:G:H8	2.22	0.49
34:BA:1521:G:O2'	34:BA:1522:U:C5'	2.58	0.49
35:BF:59:GLU:HB2	35:BF:225:ALA:HB2	1.94	0.49
35:BF:207:ALA:O	35:BF:209:ARG:N	2.46	0.49
36:BG:64:VAL:O	36:BG:64:VAL:HG12	2.13	0.49
36:BG:66:VAL:HB	36:BG:99:VAL:HG21	1.95	0.49
40:BK:65:ALA:HA	40:BK:128:ALA:N	2.28	0.49
40:BK:106:GLN:O	40:BK:109:ASN:N	2.45	0.49
41:BL:14:ARG:CA	41:BL:17:THR:OG1	2.54	0.49
41:BL:85:ARG:CD	41:BL:134:ILE:O	2.59	0.49
41:BL:114:THR:CG2	41:BL:119:LEU:HD23	2.41	0.49
42:BM:16:ARG:CG	42:BM:18:PHE:CE1	2.89	0.49
42:BM:85:LEU:HD11	42:BM:92:TYR:HE1	1.77	0.49
42:BM:116:LYS:HD3	42:BM:116:LYS:N	2.27	0.49
43:BN:49:VAL:O	43:BN:60:ARG:HA	2.12	0.49
43:BN:54:PHE:CE1	43:BN:55:LYS:HB3	2.48	0.49
44:BO:46:GLY:HA2	44:BO:55:LYS:HD2	1.93	0.49
44:BO:62:GLN:HA	44:BO:97:ALA:HB2	1.94	0.49
44:BO:102:GLY:O	44:BO:104:GLN:N	2.45	0.49
45:BP:5:PRO:HB3	45:BP:10:LEU:CD1	2.40	0.49
45:BP:88:GLY:O	45:BP:89:ARG:C	2.55	0.49
46:BQ:97:PRO:CG	46:BQ:101:GLN:HB2	2.42	0.49
47:BR:22:THR:HG22	47:BR:33:VAL:HG23	1.94	0.49
49:BT:16:HIS:C	49:BT:17:TYR:HD1	2.19	0.49
49:BT:26:ARG:HB3	49:BT:30:GLY:HA3	1.95	0.49
49:BT:27:LYS:O	49:BT:30:GLY:N	2.36	0.49
49:BT:40:ASP:O	49:BT:40:ASP:CG	2.55	0.49
49:BT:66:PRO:C	49:BT:67:THR:O	2.52	0.49
50:BU:7:THR:CG2	50:BU:57:VAL:O	2.58	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:19:VAL:HG22	52:BW:43:GLU:OE2	2.12	0.49
53:BX:65:LYS:O	53:BX:68:LYS:HG2	2.12	0.49
55:CA:27:GLN:N	55:CA:29:SER:N	2.61	0.49
55:CA:164:TYR:CG	55:CA:176:HIS:CE1	3.01	0.49
55:CA:313:VAL:CG1	55:CA:314:ASN:N	2.73	0.49
1:AA:14:A:C8	1:AA:15:G:O4'	2.66	0.49
1:AA:49:A:N1	1:AA:120:U:O4	2.46	0.49
1:AA:105:C:H2'	1:AA:106:C:C6	2.47	0.49
1:AA:220:G:O2'	1:AA:233:A:C2	2.65	0.49
1:AA:270(C):C:OP1	1:AA:365:C:C1'	2.61	0.49
1:AA:319:C:N4	1:AA:320:A:N6	2.60	0.49
1:AA:331:A:N6	1:AA:1209:G:H2'	2.24	0.49
1:AA:401:A:C4	1:AA:402:A:C8	3.00	0.49
1:AA:459:U:OP2	30:Ad:40:TRP:CD2	2.66	0.49
1:AA:459:U:O5'	30:Ad:40:TRP:CZ3	2.65	0.49
1:AA:478:A:N6	1:AA:480:A:N1	2.61	0.49
1:AA:533:G:C5	1:AA:534:U:C2	3.01	0.49
1:AA:547:A:N6	1:AA:548:A:N1	2.60	0.49
1:AA:613:U:C5	1:AA:614:U:O2	2.64	0.49
1:AA:616:A:H1'	6:AF:180:GLY:CA	2.43	0.49
1:AA:630:G:N1	1:AA:634:C:N4	2.58	0.49
1:AA:688:U:P	30:Ad:2:LYS:HE2	2.52	0.49
1:AA:717:G:N2	1:AA:718:A:H1'	2.27	0.49
1:AA:743:G:N1	1:AA:755:C:C4	2.81	0.49
1:AA:764:A:OP1	4:AD:211:ARG:HB3	2.12	0.49
1:AA:832:G:OP1	13:AM:36:LYS:CE	2.61	0.49
1:AA:904:C:O2'	23:AW:122:ARG:NH1	2.44	0.49
1:AA:942:G:C6	1:AA:943:U:C4	3.01	0.49
1:AA:993:G:C6	1:AA:994:C:N4	2.81	0.49
1:AA:1063:G:C8	1:AA:1064:C:C6	2.99	0.49
1:AA:1080:C:O2'	10:AJ:125:ARG:HB3	2.12	0.49
1:AA:1083:U:C6	1:AA:1085:A:N7	2.80	0.49
1:AA:1085:A:C1'	1:AA:1086:A:P	3.00	0.49
1:AA:1132:A:H2'	1:AA:1133:U:O2	2.12	0.49
1:AA:1223:C:O2	1:AA:1223:C:H2'	2.13	0.49
1:AA:1238:G:C2	1:AA:1239:G:N9	2.81	0.49
1:AA:1272:A:C2	1:AA:1618:A:C2	3.01	0.49
1:AA:1305:C:H2'	1:AA:1306:C:H6	1.78	0.49
1:AA:1395:A:OP1	1:AA:1602:U:O2'	2.29	0.49
1:AA:1540:G:H2'	1:AA:1541:U:H5'	1.92	0.49
1:AA:1615:C:C5	1:AA:1617:C:C2	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1668:A:N1	1:AA:1993:U:C1'	2.59	0.49
1:AA:1752:C:C5'	1:AA:2862:G:OP1	2.61	0.49
1:AA:1772:G:C2	1:AA:1773:A:O2'	2.65	0.49
1:AA:1858:G:C6	1:AA:1883:G:C6	3.00	0.49
1:AA:1882:C:C4	1:AA:1883:G:H1'	2.48	0.49
1:AA:1975:G:O2'	1:AA:1976:U:C5'	2.60	0.49
1:AA:2018:G:OP1	1:AA:2019:A:OP2	2.28	0.49
1:AA:2031:A:N6	1:AA:2498:C:C6	2.80	0.49
1:AA:2043:C:O2	1:AA:2044:C:C6	2.65	0.49
1:AA:2048:G:N1	1:AA:2049:G:C5	2.81	0.49
1:AA:2076:U:H2'	1:AA:2076:U:O2	2.12	0.49
1:AA:2080:G:C6	1:AA:2241:A:C6	3.00	0.49
1:AA:2132:U:H2'	1:AA:2134:A:N7	2.28	0.49
1:AA:2186:G:C2	1:AA:2187:G:C5	3.01	0.49
1:AA:2208:U:H4'	4:AD:151:LYS:HZ2	1.73	0.49
1:AA:2357:U:H6	1:AA:2357:U:P	2.36	0.49
1:AA:2377:A:N3	1:AA:2378:A:C8	2.81	0.49
1:AA:2497:A:H3'	1:AA:2497:A:C8	2.48	0.49
1:AA:2623:G:N2	1:AA:2624:G:C4	2.81	0.49
1:AA:2701:C:H5'	1:AA:2701:C:H6	1.78	0.49
1:AA:2714:G:C2'	1:AA:2715:C:C5'	2.86	0.49
1:AA:2866:U:O2	1:AA:2868:A:O2'	2.30	0.49
1:AA:2881:C:C2	1:AA:2882:A:N7	2.80	0.49
2:AB:48:A:OP1	16:AP:92:TYR:CG	2.66	0.49
2:AB:93:C:H2'	2:AB:94:C:C6	2.48	0.49
2:AB:103:U:H6	2:AB:103:U:C5'	2.24	0.49
3:AC:59:ARG:NH1	3:AC:164:ARG:CG	2.75	0.49
4:AD:23:GLU:C	4:AD:23:GLU:OE1	2.55	0.49
4:AD:40:THR:HG21	4:AD:43:ARG:HE	1.76	0.49
4:AD:116:GLN:O	4:AD:117:VAL:HG23	2.13	0.49
4:AD:147:LEU:HD23	4:AD:147:LEU:N	2.24	0.49
5:AE:8:LYS:HB3	5:AE:24:THR:CG2	2.43	0.49
5:AE:111:ARG:N	5:AE:161:GLY:CA	2.57	0.49
6:AF:41:LEU:O	6:AF:44:ARG:NH1	2.45	0.49
6:AF:202:PHE:CD1	6:AF:205:ARG:HD2	2.48	0.49
7:AG:107:LEU:CD1	7:AG:111:LEU:HD13	2.40	0.49
8:AH:43:VAL:CG1	8:AH:44:VAL:H	2.25	0.49
8:AH:76:VAL:O	8:AH:78:GLY:N	2.46	0.49
8:AH:97:ARG:CB	8:AH:104:GLU:HG3	2.37	0.49
8:AH:150:ALA:O	8:AH:151:ILE:C	2.55	0.49
9:AI:118:THR:C	9:AI:120:LYS:H	2.20	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:105:LEU:CA	10:AJ:123:ALA:CB	2.62	0.49
10:AJ:107:ILE:O	10:AJ:107:ILE:HG22	2.12	0.49
11:AK:74:ARG:NE	11:AK:82:LEU:CD1	2.76	0.49
11:AK:87:LEU:HD23	11:AK:88:GLU:N	2.27	0.49
13:AM:50:ARG:NH1	31:Ae:6:THR:OG1	2.45	0.49
13:AM:60:MET:SD	13:AM:60:MET:N	2.86	0.49
13:AM:72:PRO:O	13:AM:111:ARG:CB	2.56	0.49
14:AN:16:ARG:O	14:AN:17:LEU:HD12	2.12	0.49
14:AN:37:LEU:HD23	14:AN:100:GLY:CA	2.39	0.49
14:AN:59:ARG:O	14:AN:60:ARG:HD2	2.12	0.49
15:AO:26:LYS:CE	15:AO:70:LEU:HA	2.41	0.49
15:AO:102:GLU:CD	15:AO:103:ARG:N	2.62	0.49
17:AQ:96:ARG:CD	17:AQ:117:ASP:OD2	2.50	0.49
18:AR:96:ALA:O	18:AR:97:ASP:C	2.54	0.49
18:AR:113:ALA:HA	18:AR:116:ALA:CB	2.42	0.49
19:AS:3:ALA:C	19:AS:12:TYR:CE2	2.90	0.49
20:AT:25:ARG:HD3	20:AT:74:ALA:C	2.38	0.49
20:AT:64:MET:O	20:AT:65:LEU:C	2.55	0.49
21:AU:36:LYS:NZ	21:AU:36:LYS:HB2	2.28	0.49
21:AU:61:GLY:N	21:AU:73:ARG:NH1	2.61	0.49
22:AV:12:THR:CG2	22:AV:13:VAL:H	2.05	0.49
22:AV:42:VAL:N	22:AV:61:ILE:CB	2.68	0.49
23:AW:59:LEU:HD23	23:AW:60:GLU:N	2.28	0.49
25:AY:12:SER:N	25:AY:15:GLU:OE1	2.45	0.49
32:Af:11:CYS:C	32:Af:13:LYS:H	2.20	0.49
34:BA:68:G:H5'	34:BA:171:A:H1'	1.95	0.49
34:BA:138:G:C2	34:BA:226:G:C4	3.01	0.49
34:BA:198:G:C2'	34:BA:199:G:O5'	2.61	0.49
34:BA:247:G:N2	34:BA:282:A:C2	2.77	0.49
34:BA:408:A:C5'	37:BH:116:GLN:HE21	2.25	0.49
34:BA:451:A:OP1	34:BA:481:G:N1	2.43	0.49
34:BA:609:A:H2'	34:BA:610:G:O4'	2.13	0.49
34:BA:643:C:N3	34:BA:644:G:N7	2.60	0.49
34:BA:701:C:H4'	34:BA:702:A:OP2	2.12	0.49
34:BA:739:C:C2'	34:BA:740:U:H5'	2.43	0.49
34:BA:842:C:H5'	34:BA:848:C:O2	2.13	0.49
34:BA:874:G:N2	34:BA:875:C:C2	2.80	0.49
34:BA:1053:G:C2	34:BA:1199:U:C4	3.01	0.49
34:BA:1058:G:C2'	34:BA:1059:C:H5'	2.42	0.49
34:BA:1127:G:O2'	34:BA:1148:U:N3	2.42	0.49
34:BA:1226:C:C5	46:BQ:104:ARG:CA	2.96	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1251:A:C2	34:BA:1252:A:C6	3.01	0.49
34:BA:1338:G:C2	34:BA:1339:A:C5	3.01	0.49
34:BA:1347:G:H4'	34:BA:1348:U:C5'	2.42	0.49
34:BA:1409:C:O5'	34:BA:1409:C:H6	1.96	0.49
34:BA:1428:A:C4	34:BA:1429:C:C5	3.01	0.49
34:BA:1442:G:H4'	34:BA:1443:G:OP2	2.13	0.49
35:BF:60:ASP:O	35:BF:64:ARG:HD2	2.12	0.49
35:BF:139:LYS:CG	35:BF:140:HIS:N	2.64	0.49
36:BG:77:ILE:CG2	36:BG:81:GLY:HA2	2.42	0.49
36:BG:140:ARG:HB3	36:BG:140:ARG:HH11	1.75	0.49
37:BH:94:LEU:HA	37:BH:97:LEU:HD11	1.89	0.49
37:BH:105:VAL:HG13	37:BH:120:LEU:HD21	1.94	0.49
37:BH:144:ASP:O	37:BH:184:LYS:HA	2.13	0.49
37:BH:152:SER:O	37:BH:154:ASN:ND2	2.45	0.49
37:BH:152:SER:OG	37:BH:158:ILE:HD12	2.12	0.49
37:BH:193:ASP:O	37:BH:194:LEU:HD13	2.13	0.49
37:BH:195:ALA:C	37:BH:196:LEU:HG	2.35	0.49
38:BI:33:VAL:C	38:BI:34:VAL:HG22	2.38	0.49
38:BI:40:ARG:CA	38:BI:68:GLU:OE1	2.61	0.49
38:BI:108:ALA:HA	38:BI:111:GLU:OE1	2.12	0.49
39:BJ:34:GLY:C	39:BJ:68:PRO:HD3	2.38	0.49
39:BJ:49:ALA:HB3	51:BV:79:LEU:N	2.28	0.49
40:BK:15:ASP:OD2	40:BK:23:VAL:HG11	2.12	0.49
40:BK:75:VAL:HG11	40:BK:86:GLN:HB3	1.94	0.49
40:BK:99:LEU:O	40:BK:99:LEU:CD2	2.61	0.49
40:BK:149:ARG:O	40:BK:152:ALA:N	2.46	0.49
41:BL:89:PRO:HA	41:BL:92:ARG:NE	2.28	0.49
44:BO:13:GLN:CA	44:BO:76:GLY:HA3	2.42	0.49
44:BO:22:HIS:O	44:BO:28:THR:HG23	2.12	0.49
44:BO:69:ALA:O	44:BO:72:ALA:N	2.44	0.49
45:BP:22:SER:C	45:BP:24:VAL:N	2.70	0.49
45:BP:59:ARG:HE	45:BP:65:GLU:CG	2.26	0.49
46:BQ:16:ASP:C	46:BQ:30:ALA:CB	2.69	0.49
47:BR:28:GLY:O	47:BR:29:ARG:C	2.54	0.49
48:BS:66:LEU:N	48:BS:66:LEU:CD2	2.75	0.49
49:BT:67:THR:N	49:BT:70:ALA:HB3	2.26	0.49
51:BV:66:LEU:CD1	51:BV:67:ALA:H	2.22	0.49
51:BV:77:GLY:C	51:BV:78:LEU:HG	2.37	0.49
52:BW:3:ARG:HH21	52:BW:3:ARG:CG	2.26	0.49
53:BX:45:GLN:NE2	53:BX:91:LEU:HB3	2.28	0.49
54:BY:12:LYS:HB3	54:BY:17:THR:O	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:26:LEU:C	55:CA:27:GLN:CG	2.86	0.49
55:CA:127:ILE:HB	55:CA:164:TYR:CB	2.42	0.49
55:CA:150:ASN:ND2	55:CA:151:LEU:CD2	2.73	0.49
55:CA:383:SER:OG	55:CA:385:PRO:HD3	2.12	0.49
55:CA:509:LYS:CG	55:CA:561:ILE:CD1	2.69	0.49
1:AA:28:A:C2	1:AA:29:U:O2'	2.61	0.49
1:AA:37:C:H5'	1:AA:451:C:H5''	1.95	0.49
1:AA:109:G:C6	1:AA:110:G:C8	3.00	0.49
1:AA:220:G:O6	1:AA:427:U:H3'	2.12	0.49
1:AA:251:A:H3'	1:AA:251:A:OP2	2.12	0.49
1:AA:279:C:N4	1:AA:359:A:C1'	2.67	0.49
1:AA:332:A:O2'	1:AA:333:G:O5'	2.31	0.49
1:AA:411:G:C2	1:AA:2407:G:C5	3.01	0.49
1:AA:449:A:O2'	6:AF:52:LYS:NZ	2.37	0.49
1:AA:572:A:C5	1:AA:573:G:N1	2.80	0.49
1:AA:611:C:N4	1:AA:618:G:H1	2.10	0.49
1:AA:673:C:H2'	1:AA:674:G:O5'	2.12	0.49
1:AA:700:G:C6	1:AA:701:G:N7	2.80	0.49
1:AA:773:U:O2'	1:AA:774:A:OP1	2.30	0.49
1:AA:856:C:C1'	24:AX:69:PHE:CD2	2.96	0.49
1:AA:869:G:C3'	1:AA:870:A:H5''	2.43	0.49
1:AA:904:C:O4'	23:AW:169:GLU:CD	2.55	0.49
1:AA:917:A:C8	1:AA:918:A:H5'	2.48	0.49
1:AA:918:A:C8	2:AB:80:U:C4'	2.93	0.49
1:AA:974:G:H8	1:AA:974(A):C:O4'	1.95	0.49
1:AA:980:A:N1	1:AA:1135:C:H4'	2.28	0.49
1:AA:1025:G:H8	1:AA:1134:G:H1'	1.78	0.49
1:AA:1066:U:O3'	1:AA:1068:G:OP2	2.31	0.49
1:AA:1076:C:H3'	1:AA:1076:C:H6	1.78	0.49
1:AA:1109:C:H2'	1:AA:1110:G:C1'	2.43	0.49
1:AA:1176:G:H8	1:AA:1177:A:O4'	1.95	0.49
1:AA:1235:G:C2	1:AA:1236:G:N2	2.80	0.49
1:AA:1237:A:O2'	1:AA:1238:G:O5'	2.30	0.49
1:AA:1342:A:C4	1:AA:1397:U:H1'	2.48	0.49
1:AA:1364:G:P	1:AA:1364:G:C8	3.06	0.49
1:AA:1401:G:H8	1:AA:1401:G:O5'	1.95	0.49
1:AA:1489:U:O2'	1:AA:1490:A:P	2.70	0.49
1:AA:1511:A:H2'	1:AA:1512:G:C4'	2.41	0.49
1:AA:1563:G:C6	1:AA:1564:C:N4	2.81	0.49
1:AA:1578:U:C2'	1:AA:1579:A:O5'	2.61	0.49
1:AA:1667:G:N2	1:AA:1991:U:O4	2.44	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1689:A:H2'	1:AA:1690:A:H8	1.77	0.49
1:AA:1729:A:H2'	1:AA:1730:U:H5'	1.94	0.49
1:AA:2024:G:C4	1:AA:2025:C:C6	3.01	0.49
1:AA:2047:U:C2'	1:AA:2048:G:O5'	2.60	0.49
1:AA:2051:A:H3'	1:AA:2578:G:C5'	2.43	0.49
1:AA:2115:G:H1	1:AA:2118:U:H5''	1.77	0.49
1:AA:2157:G:H4'	1:AA:2158:A:OP1	2.13	0.49
1:AA:2218:G:O3'	4:AD:186:HIS:NE2	2.46	0.49
1:AA:2225:A:C5'	1:AA:2226:C:O4'	2.52	0.49
1:AA:2257:U:OP1	24:AX:11:ARG:NH2	2.45	0.49
1:AA:2346:A:C5'	1:AA:2383:G:O4'	2.60	0.49
1:AA:2393:A:H5''	13:AM:56:SER:C	2.37	0.49
1:AA:2415:G:C2	1:AA:2416:C:C2	3.00	0.49
1:AA:2440:C:H2'	1:AA:2441:C:O5'	2.13	0.49
1:AA:2620:C:C2'	1:AA:2621:A:O5'	2.60	0.49
1:AA:2627:G:N2	1:AA:2628:C:C6	2.81	0.49
1:AA:2631:G:C6	1:AA:2632:A:C8	3.01	0.49
1:AA:2661:G:C5'	55:CA:14:VAL:HG11	2.40	0.49
1:AA:2679:A:O2'	5:AE:189:PRO:HA	2.13	0.49
1:AA:2753:A:C2'	1:AA:2754:U:O5'	2.61	0.49
1:AA:2756:U:C4	1:AA:2758:A:C6	3.00	0.49
1:AA:2795:G:N3	1:AA:2795:G:C2'	2.73	0.49
1:AA:2808:U:H2'	1:AA:2809:A:C5'	2.25	0.49
1:AA:2828:C:H2'	1:AA:2829:C:C6	2.48	0.49
1:AA:2841:C:O2	1:AA:2842:G:C8	2.66	0.49
1:AA:2899:G:C5	1:AA:2900:A:N7	2.80	0.49
2:AB:77:U:C6	2:AB:77:U:C3'	2.95	0.49
3:AC:21:THR:N	3:AC:24:GLU:OE1	2.45	0.49
3:AC:58:VAL:CG1	3:AC:199:HIS:HB3	2.42	0.49
3:AC:161:ILE:HB	3:AC:174:PRO:HD2	1.93	0.49
4:AD:38:LYS:HD2	4:AD:38:LYS:H	1.78	0.49
4:AD:133:LEU:HG	4:AD:187:GLY:O	2.12	0.49
5:AE:92:THR:HG23	5:AE:96:PHE:H	1.76	0.49
5:AE:110:GLY:O	15:AO:4:LEU:HD13	2.13	0.49
6:AF:64:ILE:HG21	6:AF:78:ILE:HB	1.92	0.49
6:AF:101:LEU:O	6:AF:106:ARG:CZ	2.60	0.49
6:AF:132:VAL:HG22	6:AF:135:LYS:CB	2.42	0.49
7:AG:103:LEU:CD2	7:AG:176:LEU:HD11	2.42	0.49
8:AH:119:GLU:HA	8:AH:119:GLU:OE1	2.12	0.49
8:AH:152:ARG:HH11	8:AH:152:ARG:CG	2.26	0.49
10:AJ:23:VAL:N	10:AJ:24:GLY:CA	2.75	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:56:GLU:O	10:AJ:57:ILE:HG23	2.13	0.49
10:AJ:76:TYR:CD1	10:AJ:80:LYS:CE	2.96	0.49
10:AJ:115:LEU:HD22	10:AJ:116:ASN:H	1.78	0.49
11:AK:22:THR:HG21	11:AK:61:ARG:HH12	1.78	0.49
11:AK:23:LEU:HB2	11:AK:63:THR:HG23	1.94	0.49
11:AK:63:THR:OG1	11:AK:65:LYS:HD3	2.12	0.49
11:AK:96:GLU:HG2	11:AK:97:ARG:HD3	1.94	0.49
12:AL:3:GLN:OE1	12:AL:3:GLN:C	2.56	0.49
13:AM:23:PRO:HB3	13:AM:29:LYS:H	1.74	0.49
13:AM:76:LYS:HB3	13:AM:113:LYS:O	2.13	0.49
14:AN:17:LEU:C	14:AN:18:LYS:HG2	2.37	0.49
14:AN:30:GLY:O	14:AN:31:ASP:HB2	2.12	0.49
14:AN:34:LEU:CD2	14:AN:118:LEU:HD22	2.42	0.49
14:AN:69:PHE:C	14:AN:71:ASP:H	2.21	0.49
14:AN:85:LYS:HG3	14:AN:88:GLY:H	1.77	0.49
14:AN:122:GLY:HA2	14:AN:125:LEU:HD12	1.94	0.49
14:AN:134:ARG:HH21	14:AN:137:TYR:CB	2.25	0.49
16:AP:42:ASP:C	16:AP:44:LYS:N	2.59	0.49
17:AQ:54:ARG:HD3	17:AQ:55:ASN:HD21	1.76	0.49
17:AQ:80:SER:HB3	17:AQ:81:PRO:CD	2.40	0.49
18:AR:65:ILE:CD1	18:AR:65:ILE:H	2.12	0.49
19:AS:5:VAL:CG1	19:AS:37:VAL:CG2	2.90	0.49
19:AS:23:GLU:HA	19:AS:93:GLU:CB	2.42	0.49
20:AT:11:ARG:HB3	20:AT:11:ARG:CZ	2.43	0.49
22:AV:37:VAL:HG13	22:AV:39:VAL:CG2	2.42	0.49
23:AW:152:ALA:HA	23:AW:155:LEU:CD2	2.42	0.49
30:Ad:24:THR:HG23	30:Ad:27:GLY:CA	2.40	0.49
30:Ad:48:LYS:CG	30:Ad:49:ARG:N	2.45	0.49
31:Ae:16:ILE:HG22	31:Ae:21:LYS:O	2.13	0.49
34:BA:28:G:C6	34:BA:556:C:N4	2.81	0.49
34:BA:59:A:H4'	34:BA:388:G:O5'	2.13	0.49
34:BA:109:A:N3	34:BA:109:A:O4'	2.46	0.49
34:BA:117:G:O6	34:BA:289:G:O4'	2.30	0.49
34:BA:208:U:O3'	34:BA:209:U:H6	1.95	0.49
34:BA:236:G:C2'	34:BA:237:C:C6	2.95	0.49
34:BA:275:G:O2'	34:BA:276:G:H5'	2.12	0.49
34:BA:325:A:H2'	34:BA:326:G:O5'	2.13	0.49
34:BA:355:C:H2'	34:BA:356:A:H8	1.77	0.49
34:BA:465:A:H61	49:BT:82:GLN:HE22	1.58	0.49
34:BA:735:C:H4'	51:BV:75:ILE:HD11	1.95	0.49
34:BA:757:U:H4'	34:BA:879:C:O2	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:833:U:C2	34:BA:834:C:H5	2.30	0.49
34:BA:872:A:N1	34:BA:874:G:C6	2.80	0.49
34:BA:935:A:C4	34:BA:936:C:C5	3.00	0.49
34:BA:939:G:N2	34:BA:940:C:N3	2.59	0.49
34:BA:1112:C:C1'	36:BG:179:ARG:NH1	2.75	0.49
34:BA:1158:C:C5	34:BA:1160:G:H1'	2.48	0.49
34:BA:1225:A:C3'	52:BW:80:TYR:HB2	2.43	0.49
34:BA:1261:A:H2'	34:BA:1261:A:N3	2.28	0.49
34:BA:1267:C:O2	34:BA:1267:C:C2'	2.55	0.49
34:BA:1284:C:N1	34:BA:1285:A:N7	2.61	0.49
34:BA:1284:C:C6	34:BA:1285:A:N7	2.81	0.49
34:BA:1299:A:N7	34:BA:1301:U:N1	2.61	0.49
34:BA:1413:A:C2	34:BA:1414:U:N1	2.81	0.49
35:BF:70:PHE:HB3	35:BF:163:PHE:C	2.38	0.49
35:BF:80:ILE:HB	35:BF:208:ILE:CD1	2.42	0.49
35:BF:153:ARG:NH2	35:BF:154:LEU:O	2.45	0.49
35:BF:168:THR:CB	35:BF:192:SER:HA	2.43	0.49
35:BF:208:ILE:HD13	35:BF:239:VAL:HG11	1.94	0.49
35:BF:213:LEU:HD23	35:BF:217:ARG:HD3	1.95	0.49
36:BG:31:HIS:CE1	36:BG:34:LEU:HD13	2.47	0.49
36:BG:40:ARG:C	36:BG:43:LEU:HB3	2.38	0.49
36:BG:88:ARG:HG3	36:BG:99:VAL:O	2.13	0.49
37:BH:178:VAL:O	37:BH:179:GLU:O	2.31	0.49
37:BH:187:ARG:HH21	37:BH:188:LEU:HD11	1.77	0.49
38:BI:45:PHE:CD1	38:BI:47:LYS:HD2	2.47	0.49
38:BI:109:ILE:CG2	38:BI:110:LEU:N	2.75	0.49
39:BJ:57:GLN:NE2	39:BJ:57:GLN:O	2.45	0.49
40:BK:15:ASP:CB	40:BK:20:ASP:H	2.25	0.49
42:BM:5:TYR:HD2	42:BM:6:GLY:N	2.10	0.49
42:BM:85:LEU:HD11	42:BM:92:TYR:CE1	2.48	0.49
42:BM:97:LYS:HZ2	42:BM:102:LEU:HB3	1.78	0.49
43:BN:5:ARG:O	43:BN:6:ILE:HG23	2.12	0.49
43:BN:96:ILE:O	43:BN:96:ILE:CG1	2.55	0.49
45:BP:32:PHE:C	45:BP:84:LEU:HD11	2.38	0.49
45:BP:86:ARG:HH22	45:BP:119:LYS:CD	2.26	0.49
46:BQ:64:TRP:CH2	46:BQ:66:LEU:HD13	2.48	0.49
48:BS:79:ARG:HA	48:BS:82:ILE:CD1	2.42	0.49
50:BU:44:ALA:HB2	50:BU:59:ILE:HD13	1.95	0.49
51:BV:31:LEU:HD23	51:BV:65:ILE:HG13	1.95	0.49
52:BW:30:LEU:HD23	52:BW:30:LEU:C	2.38	0.49
53:BX:81:LYS:O	53:BX:82:SER:C	2.53	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:12:LYS:O	54:BY:13:ILE:C	2.56	0.49
55:CA:35:ARG:N	55:CA:36:ALA:HB3	2.28	0.49
55:CA:137:PRO:O	55:CA:141:VAL:HG23	2.13	0.49
55:CA:150:ASN:O	55:CA:151:LEU:HD13	2.13	0.49
55:CA:245:LYS:HZ1	55:CA:291:THR:CB	2.09	0.49
55:CA:248:ASN:ND2	55:CA:273:ILE:HD11	2.27	0.49
1:AA:28:A:N3	1:AA:29:U:O4'	2.46	0.49
1:AA:66:C:C2'	1:AA:67:U:O5'	2.60	0.49
1:AA:227:A:N6	1:AA:410:G:H1'	2.27	0.49
1:AA:270(H):C:H2'	1:AA:270(I):G:C8	2.40	0.49
1:AA:270(H):C:O2'	1:AA:270(I):G:H5'	2.12	0.49
1:AA:292:C:O5'	1:AA:293:U:O4	2.31	0.49
1:AA:297:C:C4	1:AA:298:G:C2	3.00	0.49
1:AA:361:G:H2'	1:AA:362:U:H6	1.78	0.49
1:AA:388:G:OP2	27:Aa:23:GLU:OE2	2.31	0.49
1:AA:410:G:H3'	1:AA:411:G:C8	2.47	0.49
1:AA:411:G:O4'	1:AA:2407:G:OP2	2.31	0.49
1:AA:501:A:N7	1:AA:502:A:N6	2.61	0.49
1:AA:527:C:N4	1:AA:2780:G:OP1	2.42	0.49
1:AA:625:G:O6	13:AM:100:LEU:O	2.31	0.49
1:AA:686:G:N7	30:Ad:12:ARG:HB2	2.27	0.49
1:AA:729:G:OP1	4:AD:19:ALA:CB	2.60	0.49
1:AA:764:A:N3	4:AD:214:TRP:CD1	2.81	0.49
1:AA:768:G:O5'	1:AA:768:G:H8	1.96	0.49
1:AA:847:U:C4	1:AA:933:A:C2	3.00	0.49
1:AA:959:A:N6	1:AA:960:A:N6	2.61	0.49
1:AA:1011:G:C6	1:AA:1151:G:C6	3.01	0.49
1:AA:1147:C:H2'	1:AA:1148:A:C5'	2.42	0.49
1:AA:1189:A:C3'	1:AA:1190:G:H5'	2.43	0.49
1:AA:1210:A:C1'	1:AA:1212:G:H21	2.25	0.49
1:AA:1258:C:H2'	1:AA:1259:G:C8	2.40	0.49
1:AA:1390:U:O5'	1:AA:1390:U:H6	1.96	0.49
1:AA:1444:G:H5'	1:AA:1444(A):A:OP2	2.12	0.49
1:AA:1451:C:OP2	1:AA:1451:C:C4'	2.60	0.49
1:AA:1475:G:C2	1:AA:1476:C:H6	2.31	0.49
1:AA:1527:G:C2'	1:AA:1528:A:O4'	2.60	0.49
1:AA:1534:G:N2	1:AA:1537:C:C5	2.61	0.49
1:AA:1534:G:H2'	1:AA:1536:A:N7	2.27	0.49
1:AA:1540:G:H3'	1:AA:1541:U:O4'	2.12	0.49
1:AA:1559:G:C8	1:AA:1559:G:H5''	2.47	0.49
1:AA:1759:A:N1	1:AA:1760:A:C2	2.80	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1997:G:N1	1:AA:1998:G:C5	2.81	0.49
1:AA:2041:U:C6	1:AA:2041:U:OP2	2.66	0.49
1:AA:2051:A:C2'	5:AE:141:ILE:HD11	2.43	0.49
1:AA:2254:C:C2'	1:AA:2255:G:C5'	2.78	0.49
1:AA:2286:A:C8	1:AA:2286:A:C3'	2.91	0.49
1:AA:2302:G:N2	1:AA:2303:G:H1'	2.28	0.49
1:AA:2346:A:H4'	1:AA:2383:G:C5'	2.35	0.49
1:AA:2521:C:C2	1:AA:2522:U:H6	2.31	0.49
1:AA:2560:C:H2'	1:AA:2561:A:H5'	1.95	0.49
1:AA:2573:C:H3'	1:AA:2573:C:C6	2.48	0.49
1:AA:2667:C:O2'	1:AA:2668:G:H5'	2.12	0.49
1:AA:2831:G:OP2	5:AE:57:LYS:HD3	2.13	0.49
2:AB:104:A:H62	2:AB:105:G:N2	2.09	0.49
2:AB:112:G:N3	2:AB:112:G:C2'	2.74	0.49
3:AC:19:ILE:O	3:AC:19:ILE:HG22	2.12	0.49
3:AC:108:MET:CE	3:AC:131:LEU:HD23	2.43	0.49
4:AD:106:ILE:CG1	4:AD:108:PRO:HD3	2.36	0.49
4:AD:149:PRO:C	4:AD:151:LYS:H	2.21	0.49
4:AD:219:PRO:HB2	4:AD:220:HIS:CD2	2.48	0.49
5:AE:27:LEU:O	5:AE:28:ALA:C	2.56	0.49
5:AE:45:THR:HG1	5:AE:46:ALA:H	1.59	0.49
5:AE:49:LEU:HD11	5:AE:51:PHE:HD1	1.78	0.49
5:AE:54:GLN:HB3	5:AE:57:LYS:CE	2.41	0.49
5:AE:55:ASN:HA	5:AE:58:ARG:NH1	2.28	0.49
5:AE:80:GLU:O	5:AE:83:ASP:OD2	2.31	0.49
6:AF:23:ASP:O	6:AF:24:LEU:HD23	2.13	0.49
6:AF:162:LEU:HA	6:AF:165:ARG:HB3	1.95	0.49
7:AG:12:TYR:O	7:AG:13:GLU:C	2.56	0.49
7:AG:33:ARG:HH12	7:AG:34:LEU:C	2.20	0.49
7:AG:68:PRO:CG	7:AG:90:LEU:HD21	2.43	0.49
7:AG:111:LEU:HD23	7:AG:178:PHE:HD2	1.77	0.49
8:AH:13:LYS:CE	8:AH:80:SER:HA	2.42	0.49
8:AH:25:LYS:HZ3	8:AH:32:GLU:CB	2.18	0.49
9:AI:116:ILE:CB	9:AI:123:GLU:CB	2.91	0.49
10:AJ:12:LEU:CD1	10:AJ:23:VAL:HG21	2.43	0.49
10:AJ:12:LEU:HD11	10:AJ:41:PHE:HZ	1.70	0.49
11:AK:30:ILE:O	11:AK:31:ALA:O	2.31	0.49
11:AK:69:GLN:HE21	11:AK:69:GLN:H	1.60	0.49
12:AL:9:GLU:HA	12:AL:9:GLU:OE1	2.13	0.49
14:AN:44:ALA:O	14:AN:48:GLU:OE2	2.31	0.49
15:AO:31:HIS:C	15:AO:33:ARG:H	2.20	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:61:HIS:HA	15:AO:64:ARG:CD	2.35	0.49
15:AO:90:ARG:HH22	15:AO:117:VAL:HG13	1.78	0.49
15:AO:96:ARG:O	15:AO:114:VAL:HA	2.13	0.49
15:AO:99:LYS:HA	15:AO:112:ALA:CB	2.39	0.49
15:AO:116:LEU:HD23	15:AO:116:LEU:H	1.77	0.49
18:AR:37:GLU:C	18:AR:39:LEU:N	2.70	0.49
18:AR:61:TRP:C	18:AR:65:ILE:HD11	2.37	0.49
19:AS:4:ILE:HD12	19:AS:4:ILE:H	1.77	0.49
19:AS:73:SER:C	19:AS:74:LYS:HD3	2.38	0.49
22:AV:72:VAL:HG11	22:AV:96:ILE:CG2	2.43	0.49
23:AW:171:ILE:HG23	23:AW:172:ALA:N	2.28	0.49
28:Ab:34:PRO:CD	28:Ab:40:LYS:HD2	2.29	0.49
29:Ac:16:CYS:O	29:Ac:18:ARG:N	2.46	0.49
31:Ae:52:LYS:O	31:Ae:56:GLU:OE2	2.31	0.49
33:Ag:11:UNK:CB	33:Ag:148:UNK:HA	2.43	0.49
34:BA:34:C:H2'	34:BA:35:G:C8	2.43	0.49
34:BA:102:G:H2'	34:BA:103:C:O4'	2.11	0.49
34:BA:134:A:P	34:BA:134:A:H8	2.36	0.49
34:BA:160:A:H1'	34:BA:344:A:H62	1.78	0.49
34:BA:166:G:H2'	34:BA:167:G:O5'	2.13	0.49
34:BA:250:A:C2	34:BA:274:A:N1	2.81	0.49
34:BA:362:G:H4'	45:BP:28:LYS:NZ	2.28	0.49
34:BA:367:U:O2'	34:BA:368:U:H4'	2.12	0.49
34:BA:433:C:H2'	34:BA:434:U:C6	2.47	0.49
34:BA:439:A:H3'	34:BA:440:A:C8	2.45	0.49
34:BA:536:C:O5'	34:BA:536:C:H6	1.96	0.49
34:BA:537:G:H5''	45:BP:113:ARG:NH1	2.28	0.49
34:BA:556:C:C2'	34:BA:557:G:H5'	2.43	0.49
34:BA:557:G:H3'	34:BA:558:G:H8	1.74	0.49
34:BA:565:U:N3	34:BA:566:G:O6	2.46	0.49
34:BA:570:G:O3'	34:BA:819:A:H2'	2.13	0.49
34:BA:675:A:N3	44:BO:116:HIS:CB	2.76	0.49
34:BA:685:G:H2'	34:BA:686:U:H6	1.76	0.49
34:BA:686:U:OP1	34:BA:686:U:C4'	2.60	0.49
34:BA:723:U:O2	34:BA:723:U:H2'	2.12	0.49
34:BA:744:C:H2'	34:BA:745:C:C6	2.48	0.49
34:BA:786:G:N2	34:BA:787:A:H1'	2.28	0.49
34:BA:818:G:N2	34:BA:820:U:C5	2.81	0.49
34:BA:937:A:C2	34:BA:1379:G:C6	3.00	0.49
34:BA:956:U:O2'	34:BA:957:U:H5'	2.13	0.49
34:BA:983:A:N3	34:BA:983:A:C2'	2.76	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1065:U:H2'	34:BA:1066:C:OP2	2.13	0.49
34:BA:1075:C:C4'	34:BA:1101:A:N6	2.71	0.49
34:BA:1080:A:N7	34:BA:1081:G:H1'	2.28	0.49
34:BA:1119:C:H2'	34:BA:1120:G:N7	2.27	0.49
34:BA:1157:A:H4'	34:BA:1158:C:O5'	2.13	0.49
34:BA:1213:A:C5	34:BA:1215:G:C6	3.01	0.49
34:BA:1215:G:H2'	34:BA:1215:G:N3	2.28	0.49
34:BA:1270:C:O4'	34:BA:1313:U:C4'	2.60	0.49
34:BA:1346:A:O2'	34:BA:1347:G:OP2	2.22	0.49
34:BA:1369:C:H2'	34:BA:1370:G:O4'	2.13	0.49
34:BA:1371:G:O2'	34:BA:1372:U:H5'	2.13	0.49
34:BA:1410:G:H2'	34:BA:1411:C:C6	2.48	0.49
34:BA:1431:C:H2'	34:BA:1432:G:C4'	2.42	0.49
35:BF:69:LEU:CD2	35:BF:91:PRO:CB	2.90	0.49
35:BF:82:ARG:HB3	35:BF:83:MET:HE2	1.94	0.49
35:BF:165:VAL:HG23	35:BF:166:ASP:N	2.21	0.49
35:BF:223:ILE:C	35:BF:226:ARG:HB3	2.37	0.49
36:BG:77:ILE:HG22	36:BG:81:GLY:HA2	1.95	0.49
36:BG:98:ASN:C	36:BG:99:VAL:CG1	2.86	0.49
36:BG:142:MET:CA	36:BG:146:ALA:HB3	2.42	0.49
37:BH:170:VAL:H	37:BH:176:LEU:CD2	2.16	0.49
37:BH:199:ASN:OD1	37:BH:202:LEU:HG	2.12	0.49
39:BJ:86:ARG:O	39:BJ:87:ARG:HG2	2.12	0.49
40:BK:5:ARG:HH11	40:BK:5:ARG:CB	2.26	0.49
40:BK:10:ARG:CB	40:BK:10:ARG:NH1	2.76	0.49
40:BK:27:ILE:HG12	40:BK:43:PHE:CG	2.48	0.49
41:BL:33:GLU:OE2	41:BL:50:ARG:HD2	2.12	0.49
41:BL:95:VAL:HB	41:BL:99:GLU:CD	2.38	0.49
41:BL:114:THR:OG1	41:BL:119:LEU:CD2	2.61	0.49
42:BM:10:ARG:O	42:BM:11:LYS:C	2.56	0.49
42:BM:69:GLY:O	42:BM:73:GLN:HG3	2.12	0.49
42:BM:79:LEU:O	42:BM:82:ALA:HB3	2.12	0.49
43:BN:63:PHE:HA	47:BR:59:ALA:N	2.28	0.49
43:BN:76:ASN:C	43:BN:78:ASN:N	2.69	0.49
44:BO:73:MET:CG	44:BO:103:LEU:HD13	2.37	0.49
44:BO:94:ALA:O	44:BO:98:LEU:HG	2.13	0.49
45:BP:25:PRO:CD	45:BP:98:TYR:OH	2.61	0.49
45:BP:33:ARG:HG2	45:BP:60:LEU:CD2	2.43	0.49
46:BQ:27:LYS:NZ	46:BQ:31:LYS:NZ	2.60	0.49
46:BQ:81:LEU:CD2	46:BQ:81:LEU:C	2.86	0.49
46:BQ:90:LEU:HD21	46:BQ:93:ARG:CZ	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:48:ALA:O	47:BR:51:GLY:N	2.46	0.49
49:BT:35:LYS:HD2	49:BT:35:LYS:C	2.38	0.49
50:BU:27:PHE:HB2	50:BU:28:PRO:HD2	1.95	0.49
51:BV:25:THR:HG22	51:BV:42:ARG:NE	2.28	0.49
52:BW:22:LEU:CA	52:BW:25:LYS:HZ1	2.26	0.49
52:BW:34:TRP:NE1	52:BW:52:TYR:CD2	2.81	0.49
52:BW:63:THR:O	52:BW:64:GLU:C	2.56	0.49
53:BX:12:ALA:C	53:BX:14:LYS:N	2.68	0.49
53:BX:16:HIS:O	53:BX:19:SER:N	2.46	0.49
53:BX:17:ARG:O	53:BX:20:LEU:CB	2.59	0.49
53:BX:59:ALA:O	53:BX:61:SER:N	2.46	0.49
53:BX:62:LEU:O	53:BX:63:ILE:C	2.53	0.49
53:BX:84:LEU:CD1	53:BX:84:LEU:C	2.86	0.49
55:CA:11:ILE:CD1	55:CA:11:ILE:H	2.10	0.49
55:CA:18:LYS:C	55:CA:19:THR:CG2	2.86	0.49
55:CA:27:GLN:N	55:CA:29:SER:H	2.10	0.49
55:CA:58:ALA:N	55:CA:255:LEU:HD22	2.27	0.49
55:CA:489:ILE:HD12	55:CA:533:LEU:O	2.12	0.49
1:AA:245:G:C6	1:AA:246:C:N4	2.80	0.49
1:AA:250:G:OP1	31:Ae:12:LYS:NZ	2.35	0.49
1:AA:260:G:O4'	1:AA:621:A:O4'	2.31	0.49
1:AA:331:A:C6	1:AA:1209:G:C4	3.00	0.49
1:AA:393:C:C2'	1:AA:394:A:H5'	2.43	0.49
1:AA:467:G:C2'	1:AA:468:G:H5'	2.43	0.49
1:AA:573:G:C2'	1:AA:574:C:C5'	2.91	0.49
1:AA:588:U:C4	1:AA:589:C:N4	2.81	0.49
1:AA:675:A:C5'	6:AF:67:GLN:NE2	2.76	0.49
1:AA:744:G:C6	1:AA:745:G:O6	2.66	0.49
1:AA:819:A:N7	1:AA:973:A:C2	2.81	0.49
1:AA:836:G:C4	1:AA:837:C:C5	3.01	0.49
1:AA:908:C:C2'	1:AA:909:A:O5'	2.61	0.49
1:AA:957:A:H2	1:AA:2459:A:OP1	1.95	0.49
1:AA:979:G:C8	1:AA:981:A:OP2	2.66	0.49
1:AA:1000:A:C2	1:AA:1155:A:N3	2.81	0.49
1:AA:1003:G:O2'	1:AA:1010:A:N1	2.43	0.49
1:AA:1143:A:C2	1:AA:1144:G:C4	3.01	0.49
1:AA:1257:C:H2'	1:AA:1258:C:C6	2.48	0.49
1:AA:1343:G:H2'	1:AA:1384:A:C2	2.48	0.49
1:AA:1408:C:C2	1:AA:1409:C:C5	3.01	0.49
1:AA:1426:G:N3	1:AA:1573:G:N2	2.61	0.49
1:AA:1453:A:C2	1:AA:1454:U:H1'	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1472:A:C2'	1:AA:1473:G:O5'	2.61	0.49
1:AA:1528:A:H8	1:AA:1529:A:C4	2.31	0.49
1:AA:1655:A:H5''	5:AE:114:ALA:CA	2.42	0.49
1:AA:1742:C:C6	1:AA:1742:C:OP2	2.66	0.49
1:AA:1746:G:C2'	1:AA:1747:G:O4'	2.61	0.49
1:AA:1775:U:O4'	4:AD:208:LYS:NZ	2.45	0.49
1:AA:1800:C:O2'	1:AA:1802:A:OP2	2.25	0.49
1:AA:1813:G:H4'	4:AD:46:GLN:CG	2.42	0.49
1:AA:1815:A:N3	1:AA:1817:G:C6	2.81	0.49
1:AA:1815:A:HO2'	1:AA:1816:G:H4'	1.77	0.49
1:AA:2026:C:N3	1:AA:2027:G:C8	2.81	0.49
1:AA:2048:G:C2'	1:AA:2049:G:O5'	2.61	0.49
1:AA:2114:A:H8	1:AA:2114:A:P	2.36	0.49
1:AA:2238:G:O2'	1:AA:2239:G:O4'	2.31	0.49
1:AA:2259:G:H5'	1:AA:2427:C:C3'	2.38	0.49
1:AA:2305:A:C2'	7:AG:154:GLY:CA	2.89	0.49
1:AA:2307:G:OP2	1:AA:2307:G:O4'	2.31	0.49
1:AA:2322:A:O4'	1:AA:2322:A:OP1	2.31	0.49
1:AA:2377:A:C2	1:AA:2378:A:C8	3.01	0.49
1:AA:2415:G:C2	1:AA:2416:C:C4	3.01	0.49
1:AA:2472:G:C3'	1:AA:2475:C:H42	2.25	0.49
1:AA:2509:G:C2	1:AA:2510:C:H1'	2.48	0.49
1:AA:2553:G:C2	1:AA:2554:U:H1'	2.39	0.49
1:AA:2558:C:C2'	1:AA:2559:C:O5'	2.61	0.49
1:AA:2681:C:C5	1:AA:2727:G:N2	2.81	0.49
1:AA:2705:A:H2'	1:AA:2706:G:O5'	2.13	0.49
1:AA:2707:G:H2'	1:AA:2708:G:O5'	2.13	0.49
1:AA:2723:C:HO2'	15:AO:2:ARG:HA	1.77	0.49
1:AA:2799:A:C4'	1:AA:2802:G:C2	2.96	0.49
1:AA:2807:G:N2	1:AA:2892:A:C6	2.68	0.49
1:AA:2850:A:C2'	1:AA:2851:A:O5'	2.61	0.49
1:AA:2877:G:H3'	1:AA:2878:U:H6	1.72	0.49
2:AB:6:C:H5'	2:AB:27:C:H2'	1.95	0.49
2:AB:38:C:O5'	2:AB:38:C:H6	1.94	0.49
3:AC:19:ILE:HG23	3:AC:223:ARG:HB3	1.95	0.49
3:AC:116:THR:C	3:AC:120:MET:HG2	2.38	0.49
4:AD:82:ILE:CG2	4:AD:83:GLU:N	2.76	0.49
4:AD:109:ASP:O	4:AD:111:LEU:N	2.46	0.49
4:AD:131:LEU:HA	4:AD:190:TYR:CE2	2.47	0.49
5:AE:81:ILE:CG2	5:AE:82:ARG:HG2	2.40	0.49
5:AE:108:SER:OG	5:AE:163:GLU:O	2.31	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:172:VAL:HA	5:AE:184:VAL:CG1	2.43	0.49
6:AF:93:LYS:O	6:AF:94:PRO:C	2.54	0.49
6:AF:110:LEU:HG	6:AF:183:VAL:H	1.76	0.49
6:AF:181:LEU:O	6:AF:182:ASN:HB3	2.13	0.49
7:AG:1:MET:HB3	7:AG:2:PRO:HD2	1.95	0.49
7:AG:107:LEU:HD12	7:AG:111:LEU:HD22	1.94	0.49
7:AG:136:ARG:O	7:AG:153:ARG:HG2	2.12	0.49
8:AH:41:MET:HE3	8:AH:68:THR:CG2	2.42	0.49
8:AH:102:ALA:HB1	8:AH:115:VAL:H	1.76	0.49
11:AK:23:LEU:CG	11:AK:61:ARG:O	2.60	0.49
11:AK:74:ARG:HG2	11:AK:76:SER:CB	2.43	0.49
12:AL:86:ILE:CG2	12:AL:90:GLN:HA	2.43	0.49
12:AL:122:LEU:CA	17:AQ:71:GLY:HA3	2.43	0.49
13:AM:86:LYS:HZ1	13:AM:99:LEU:HD11	1.77	0.49
13:AM:108:LYS:CG	13:AM:109:GLY:N	2.75	0.49
15:AO:49:ASP:O	15:AO:50:HIS:C	2.56	0.49
16:AP:26:LEU:O	16:AP:88:ASP:CB	2.53	0.49
16:AP:89:ARG:NE	16:AP:90:GLY:O	2.44	0.49
16:AP:100:ALA:O	16:AP:101:LEU:C	2.56	0.49
16:AP:103:GLU:HA	16:AP:106:ARG:HB2	1.94	0.49
17:AQ:51:ARG:HH12	17:AQ:114:LEU:CD1	2.26	0.49
19:AS:78:LYS:CA	19:AS:83:ARG:O	2.61	0.49
21:AU:42:ALA:O	21:AU:46:ALA:HB3	2.12	0.49
24:AX:40:GLN:HG2	24:AX:45:PHE:CD2	2.48	0.49
25:AY:2:ARG:HA	25:AY:5:LEU:CD1	2.28	0.49
26:AZ:6:VAL:HG12	26:AZ:56:VAL:HA	1.93	0.49
27:Aa:62:ARG:O	27:Aa:63:TYR:C	2.54	0.49
27:Aa:64:GLY:O	27:Aa:65:ASP:C	2.56	0.49
29:Ac:14:THR:CB	29:Ac:51:GLU:HA	2.30	0.49
29:Ac:28:ARG:O	29:Ac:32:ASN:HA	2.13	0.49
30:Ad:43:THR:C	30:Ad:46:VAL:HB	2.37	0.49
31:Ae:39:LYS:HZ3	31:Ae:39:LYS:CB	2.17	0.49
34:BA:37:U:P	45:BP:123:LYS:HB3	2.53	0.49
34:BA:51:A:C2	34:BA:116:A:H1'	2.47	0.49
34:BA:64:G:C4'	34:BA:65:U:H5''	2.29	0.49
34:BA:152:A:H3'	34:BA:152:A:C8	2.47	0.49
34:BA:293:G:OP2	34:BA:293:G:C8	2.66	0.49
34:BA:295:C:C4	34:BA:303:A:C2	3.01	0.49
34:BA:327:A:O3'	34:BA:328:C:O4'	2.30	0.49
34:BA:412:A:HO2'	34:BA:413:G:H5''	1.76	0.49
34:BA:552:U:H4'	45:BP:87:GLY:O	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:572:A:C2	34:BA:916:G:N2	2.81	0.49
34:BA:658:G:C6	34:BA:749:C:N4	2.81	0.49
34:BA:705:U:C4	34:BA:706:A:N7	2.81	0.49
34:BA:739:C:H2'	34:BA:740:U:H5'	1.94	0.49
34:BA:852:G:C6	34:BA:853:G:N7	2.81	0.49
34:BA:907:A:C4	34:BA:908:A:C8	3.00	0.49
34:BA:972:C:P	43:BN:57:LYS:NZ	2.86	0.49
34:BA:1132:C:H2'	34:BA:1133:G:C8	2.47	0.49
34:BA:1220:G:N3	52:BW:54:GLY:C	2.63	0.49
34:BA:1313:U:C4	34:BA:1325:C:N3	2.80	0.49
34:BA:1405:G:C2	34:BA:1406:U:C5	3.01	0.49
34:BA:1502:A:N1	34:BA:1504:G:C2	2.80	0.49
34:BA:1510:U:C2'	34:BA:1511:G:C8	2.92	0.49
34:BA:1524:C:H5''	44:BO:120:ARG:HH22	1.78	0.49
35:BF:15:VAL:O	35:BF:16:HIS:CB	2.61	0.49
35:BF:56:ARG:O	35:BF:57:PHE:C	2.53	0.49
35:BF:102:LEU:CD2	35:BF:176:GLU:CB	2.82	0.49
35:BF:149:LEU:C	35:BF:149:LEU:HD23	2.38	0.49
37:BH:47:ARG:NH2	37:BH:48:ALA:O	2.46	0.49
37:BH:65:ARG:HG3	37:BH:72:GLU:CD	2.38	0.49
37:BH:98:GLU:OE2	37:BH:107:ARG:HG3	2.12	0.49
37:BH:128:VAL:HG21	37:BH:133:VAL:HG23	1.94	0.49
38:BI:80:ILE:HG22	41:BL:104:ARG:HH22	1.78	0.49
38:BI:109:ILE:HD13	38:BI:135:THR:HG21	1.91	0.49
40:BK:46:ALA:O	40:BK:49:ILE:N	2.46	0.49
44:BO:80:VAL:H	44:BO:104:GLN:HE21	1.58	0.49
44:BO:102:GLY:O	44:BO:104:GLN:O	2.31	0.49
45:BP:25:PRO:HD2	45:BP:98:TYR:OH	2.12	0.49
45:BP:125:PRO:C	45:BP:127:GLU:H	2.20	0.49
46:BQ:92:HIS:C	46:BQ:94:ARG:H	2.21	0.49
48:BS:54:ARG:O	48:BS:55:GLY:C	2.56	0.49
49:BT:3:LYS:HB3	49:BT:3:LYS:HZ3	1.77	0.49
50:BU:11:VAL:HB	50:BU:20:THR:HG1	1.77	0.49
51:BV:39:VAL:O	51:BV:43:PHE:HE1	1.95	0.49
55:CA:77:GLY:CA	55:CA:78:HIS:C	2.86	0.49
55:CA:102:PHE:CG	55:CA:132:ARG:CZ	2.96	0.49
55:CA:141:VAL:HG22	55:CA:164:TYR:OH	1.97	0.49
55:CA:206:GLN:CD	55:CA:227:LYS:HB2	2.28	0.49
55:CA:212:LEU:CA	55:CA:223:ILE:HD12	2.43	0.49
55:CA:402:ASN:C	55:CA:403:VAL:CG2	2.86	0.49
1:AA:13:A:HO2'	1:AA:14:A:P	2.36	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:24:G:C4	1:AA:25:U:C5	3.01	0.48
1:AA:83:G:C6	1:AA:102:G:N3	2.81	0.48
1:AA:107:C:H2'	1:AA:108:U:C6	2.48	0.48
1:AA:149:A:C8	1:AA:150:C:N1	2.81	0.48
1:AA:149:A:C8	1:AA:150:C:O4'	2.66	0.48
1:AA:188:G:O4'	1:AA:1365:A:C2	2.66	0.48
1:AA:193:U:H4'	1:AA:803:U:H5'	1.95	0.48
1:AA:200:U:C4	1:AA:201:C:C1'	2.96	0.48
1:AA:250:G:C2'	1:AA:251:A:O5'	2.61	0.48
1:AA:297:C:C5'	22:AV:83:THR:HG21	2.43	0.48
1:AA:322:A:H5'	1:AA:341:G:H5'	1.93	0.48
1:AA:348:G:N3	1:AA:349:G:N7	2.61	0.48
1:AA:385:C:O2'	1:AA:386:G:C5'	2.60	0.48
1:AA:410:G:C3'	1:AA:411:G:C8	2.96	0.48
1:AA:464:U:C1'	30:Ad:12:ARG:NH2	2.76	0.48
1:AA:484:C:H2'	1:AA:485:C:C5	2.44	0.48
1:AA:493:G:C2	1:AA:494:G:N9	2.81	0.48
1:AA:556:G:H8	1:AA:556:G:P	2.35	0.48
1:AA:572:A:N7	1:AA:573:G:C5	2.80	0.48
1:AA:583:G:C2'	1:AA:584:C:O5'	2.61	0.48
1:AA:628:G:N1	1:AA:629:G:C6	2.81	0.48
1:AA:733:G:N7	1:AA:761:A:N6	2.61	0.48
1:AA:751:A:OP1	1:AA:1614:A:OP1	2.30	0.48
1:AA:947:G:C2	1:AA:948:G:C8	3.01	0.48
1:AA:1008:C:O2'	1:AA:1009:A:P	2.71	0.48
1:AA:1024:G:C4'	1:AA:1025:G:H5''	2.43	0.48
1:AA:1027:A:C6	1:AA:1126:A:N3	2.81	0.48
1:AA:1051:G:C1'	1:AA:2752:C:OP1	2.60	0.48
1:AA:1051:G:N9	1:AA:2752:C:OP2	2.40	0.48
1:AA:1144:G:O2'	1:AA:1145:C:H5'	2.13	0.48
1:AA:1152:C:O2'	1:AA:1153:C:H5'	2.13	0.48
1:AA:1267:U:H3'	1:AA:1267:U:C6	2.48	0.48
1:AA:1394:U:H5''	1:AA:1603:A:O3'	2.13	0.48
1:AA:1471:A:N7	1:AA:1519:G:C6	2.81	0.48
1:AA:1476:C:O2	1:AA:1476:C:H2'	2.11	0.48
1:AA:1527:G:H3'	1:AA:1527:G:H8	1.71	0.48
1:AA:1569:A:O3'	4:AD:39:LYS:HE2	2.13	0.48
1:AA:1620:G:C2	1:AA:1621:U:C2	3.01	0.48
1:AA:1682:G:H5'	1:AA:1762:A:O2'	2.13	0.48
1:AA:1709:U:C5'	1:AA:1709:U:H6	2.25	0.48
1:AA:1778:U:H2'	1:AA:1779:U:C5	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1788:C:C6	1:AA:1788:C:H3'	2.47	0.48
1:AA:1857:G:H2'	1:AA:1858:G:C4	2.48	0.48
1:AA:1890:A:H8	1:AA:1890:A:O5'	1.96	0.48
1:AA:1921:G:H2'	1:AA:1922:G:C8	2.48	0.48
1:AA:1999:C:H4'	1:AA:2723:C:O2	2.12	0.48
1:AA:2075:U:O2	1:AA:2076:U:O5'	2.31	0.48
1:AA:2146:C:O5'	1:AA:2146:C:C6	2.66	0.48
1:AA:2168:G:N3	1:AA:2170:A:H8	2.11	0.48
1:AA:2168:G:N9	1:AA:2170:A:OP2	2.46	0.48
1:AA:2213:U:O2	1:AA:2213:U:C2'	2.60	0.48
1:AA:2252:G:N7	1:AA:2253:G:C5	2.81	0.48
1:AA:2331:G:H4'	24:AX:42:GLY:CA	2.43	0.48
1:AA:2333:A:H1'	1:AA:2335:A:C2	2.41	0.48
1:AA:2373:G:C5	1:AA:2374:C:N4	2.81	0.48
1:AA:2377:A:C2	1:AA:2378:A:N7	2.81	0.48
1:AA:2414:G:C2	1:AA:2415:G:C8	3.01	0.48
1:AA:2503:A:HO2'	1:AA:2504:U:P	2.34	0.48
1:AA:2509:G:H2'	1:AA:2510:C:O4'	2.13	0.48
1:AA:2553:G:C8	1:AA:2583:G:H4'	2.45	0.48
1:AA:2600:A:O2'	1:AA:2601:C:H5'	2.13	0.48
1:AA:2632:A:C6	1:AA:2787:C:N4	2.81	0.48
1:AA:2693:A:O2'	1:AA:2848:G:C5'	2.61	0.48
1:AA:2706:G:H5'	1:AA:2852:G:P	2.53	0.48
1:AA:2751:G:N3	1:AA:2751:G:C2'	2.76	0.48
1:AA:2787:C:H2'	1:AA:2788:C:C5	2.48	0.48
1:AA:2810:A:C2'	1:AA:2811:G:H5'	2.43	0.48
1:AA:2828:C:H2'	1:AA:2829:C:H6	1.78	0.48
2:AB:2:C:H2'	2:AB:3:C:O5'	2.13	0.48
2:AB:16:G:H22	2:AB:69:G:H1'	1.77	0.48
4:AD:9:TYR:CE1	4:AD:25:THR:CG2	2.96	0.48
4:AD:16:MET:O	4:AD:17:THR:O	2.30	0.48
4:AD:46:GLN:HE22	4:AD:51:VAL:HG23	1.78	0.48
5:AE:13:ARG:CZ	5:AE:20:ALA:C	2.86	0.48
5:AE:40:GLU:OE1	5:AE:41:LYS:HE2	2.13	0.48
6:AF:82:ILE:HD13	6:AF:82:ILE:H	1.68	0.48
7:AG:50:ALA:O	7:AG:54:GLU:CD	2.56	0.48
7:AG:77:ILE:O	7:AG:78:SER:C	2.55	0.48
7:AG:103:LEU:HD12	7:AG:103:LEU:O	2.13	0.48
10:AJ:53:VAL:HG22	10:AJ:71:THR:O	2.13	0.48
11:AK:15:LEU:CG	11:AK:138:LEU:O	2.48	0.48
11:AK:17:ASP:OD1	11:AK:19:GLU:O	2.31	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:44:PRO:HG2	11:AK:45:ASN:H	1.77	0.48
12:AL:39:ILE:HG12	12:AL:59:LYS:HZ2	1.70	0.48
12:AL:78:ARG:HD2	12:AL:78:ARG:H	1.78	0.48
12:AL:112:MET:O	12:AL:113:LYS:C	2.50	0.48
12:AL:120:GLU:O	12:AL:121:VAL:C	2.56	0.48
14:AN:134:ARG:HH11	14:AN:134:ARG:CG	2.26	0.48
15:AO:10:LEU:CB	15:AO:17:ARG:NH1	2.76	0.48
15:AO:47:PHE:C	15:AO:49:ASP:H	2.20	0.48
15:AO:53:HIS:CD2	15:AO:56:LYS:NZ	2.80	0.48
15:AO:67:LEU:O	15:AO:67:LEU:HD22	2.13	0.48
15:AO:74:LYS:N	15:AO:77:ARG:NH2	2.61	0.48
18:AR:55:ARG:HH11	18:AR:55:ARG:CG	2.04	0.48
18:AR:74:LEU:CG	18:AR:78:THR:HG21	2.43	0.48
21:AU:85:PRO:HG2	21:AU:87:GLN:CG	2.31	0.48
22:AV:8:LYS:O	22:AV:9:LYS:C	2.55	0.48
23:AW:20:ARG:HH11	23:AW:20:ARG:CG	2.26	0.48
23:AW:48:PHE:O	23:AW:53:ILE:HG22	2.12	0.48
23:AW:127:LYS:CA	23:AW:164:ALA:HB3	2.41	0.48
23:AW:145:GLU:O	23:AW:147:GLY:N	2.45	0.48
24:AX:77:ARG:C	24:AX:78:TYR:CD1	2.91	0.48
27:Aa:55:ARG:O	27:Aa:61:ARG:NH2	2.44	0.48
29:Ac:21:TYR:CD1	29:Ac:21:TYR:O	2.66	0.48
30:Ad:17:GLY:N	30:Ad:21:ARG:NH2	2.45	0.48
34:BA:84:U:H2'	34:BA:85:U:C1'	2.43	0.48
34:BA:264:U:O2	34:BA:265:G:O4'	2.31	0.48
34:BA:467:G:C2	34:BA:468:A:C5	3.01	0.48
34:BA:527:G:H2'	34:BA:528:C:H6	1.78	0.48
34:BA:529:G:N1	45:BP:49:ASN:CG	2.71	0.48
34:BA:593:G:H2'	34:BA:594:G:O4'	2.13	0.48
34:BA:691:G:N2	44:BO:51:LYS:HZ3	2.10	0.48
34:BA:769:G:H22	34:BA:811:C:H1'	1.77	0.48
34:BA:769:G:O2'	34:BA:770:C:C5'	2.61	0.48
34:BA:874:G:N1	34:BA:875:C:C4	2.81	0.48
34:BA:878:G:O2'	34:BA:879:C:H5'	2.13	0.48
34:BA:890:G:O2'	34:BA:891:U:O5'	2.31	0.48
34:BA:978:A:O4'	34:BA:1322:C:O2	2.30	0.48
34:BA:1049:U:H1'	34:BA:1201:A:H8	1.76	0.48
34:BA:1177:G:O5'	34:BA:1177:G:H8	1.96	0.48
34:BA:1191:A:H5''	36:BG:4:LYS:HD3	1.94	0.48
34:BA:1239:A:N3	34:BA:1239:A:C2'	2.74	0.48
34:BA:1347:G:H22	34:BA:1373:G:H3'	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1422:G:O2'	34:BA:1423:G:H5'	2.13	0.48
34:BA:1484:C:N4	34:BA:1485:U:C4	2.81	0.48
35:BF:49:GLU:O	35:BF:50:GLU:C	2.56	0.48
35:BF:131:PRO:O	35:BF:134:GLU:CB	2.61	0.48
35:BF:187:LEU:HA	35:BF:201:ILE:HB	1.93	0.48
35:BF:208:ILE:HA	35:BF:211:ILE:CD1	2.42	0.48
36:BG:14:ILE:HG13	36:BG:178:LEU:CD1	2.43	0.48
36:BG:142:MET:HB3	36:BG:170:GLN:CD	2.38	0.48
37:BH:207:TYR:O	37:BH:208:SER:C	2.57	0.48
38:BI:77:PRO:HG2	38:BI:78:HIS:CD2	2.48	0.48
38:BI:133:TYR:HA	38:BI:136:MET:HG2	1.96	0.48
43:BN:7:LYS:HZ2	43:BN:71:LEU:HD11	1.78	0.48
44:BO:22:HIS:HD2	44:BO:23:ALA:N	2.11	0.48
44:BO:85:ARG:NE	44:BO:113:PRO:HD3	2.28	0.48
44:BO:85:ARG:CZ	44:BO:111:ASP:OD2	2.61	0.48
45:BP:11:VAL:HG22	50:BU:32:TYR:CD1	2.47	0.48
45:BP:26:ALA:C	45:BP:27:LEU:O	2.52	0.48
46:BQ:36:LYS:NZ	46:BQ:59:TYR:CB	2.73	0.48
50:BU:18:THR:O	50:BU:19:VAL:HG13	2.13	0.48
50:BU:41:LYS:C	50:BU:42:TYR:CD1	2.91	0.48
51:BV:49:LYS:HE3	51:BV:49:LYS:N	2.22	0.48
52:BW:30:LEU:HA	52:BW:48:THR:C	2.38	0.48
55:CA:13:HIS:CD2	55:CA:109:THR:H	2.30	0.48
55:CA:206:GLN:HG2	55:CA:227:LYS:HG3	1.82	0.48
55:CA:249:ALA:HB1	55:CA:250:LYS:CE	2.41	0.48
55:CA:293:ASN:C	55:CA:294:VAL:CG2	2.86	0.48
55:CA:488:LEU:CD1	55:CA:525:GLY:CA	2.74	0.48
1:AA:24:G:C6	1:AA:25:U:O4	2.67	0.48
1:AA:95:G:C2'	25:AY:43:HIS:NE2	2.72	0.48
1:AA:193:U:H4'	1:AA:803:U:C5'	2.42	0.48
1:AA:237:C:O2'	1:AA:238:C:H5'	2.12	0.48
1:AA:245:G:H21	1:AA:254:G:H1'	1.75	0.48
1:AA:289:A:C4	1:AA:351:G:C6	3.01	0.48
1:AA:299:A:HO2'	1:AA:319:C:C2'	2.21	0.48
1:AA:344:G:C8	1:AA:344:G:H3'	2.48	0.48
1:AA:348:G:C2	1:AA:349:G:N7	2.81	0.48
1:AA:352:G:C2	1:AA:353:G:H1'	2.48	0.48
1:AA:379:G:O6	1:AA:380:U:C4	2.65	0.48
1:AA:468:G:C8	1:AA:469:G:C8	3.01	0.48
1:AA:548:A:H3'	1:AA:549:G:C4'	2.44	0.48
1:AA:627:A:H2'	1:AA:628:G:C1'	2.42	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:642:G:C8	1:AA:642:G:C3'	2.96	0.48
1:AA:646:A:C2	1:AA:647:G:C5	3.00	0.48
1:AA:680:G:C4	1:AA:798:G:N2	2.81	0.48
1:AA:696:G:C2	1:AA:697:C:C6	3.01	0.48
1:AA:716:A:C1'	48:BS:44:LYS:CG	2.63	0.48
1:AA:724:U:H2'	1:AA:725:G:O4'	2.13	0.48
1:AA:746:A:O2'	1:AA:747:U:OP1	2.31	0.48
1:AA:859:G:C8	1:AA:859:G:C3'	2.93	0.48
1:AA:874:G:C2	1:AA:904:C:N3	2.80	0.48
1:AA:912:C:C2'	1:AA:913:U:H5'	2.44	0.48
1:AA:957:A:H4'	1:AA:958:U:OP2	2.04	0.48
1:AA:985:C:H2'	1:AA:986:C:C5	2.48	0.48
1:AA:1024:G:O6	1:AA:1134:G:H1'	2.14	0.48
1:AA:1050:A:N6	1:AA:2751:G:C5	2.81	0.48
1:AA:1196:C:H2'	1:AA:1197:G:C1'	2.42	0.48
1:AA:1264:G:C5	1:AA:1265:A:C5	3.01	0.48
1:AA:1277:G:C2'	1:AA:1278:A:H5'	2.43	0.48
1:AA:1298:C:C4'	1:AA:1302:A:N6	2.76	0.48
1:AA:1331:A:O2'	1:AA:1332:G:H8	1.95	0.48
1:AA:1438:U:H3	1:AA:1553:A:H62	1.60	0.48
1:AA:1449:A:OP1	1:AA:1543:A:C2	2.66	0.48
1:AA:1451:C:H2'	1:AA:1451:C:O2	2.13	0.48
1:AA:1586:A:O2'	1:AA:1587:A:N7	2.45	0.48
1:AA:1622:G:H8	1:AA:1622:G:O5'	1.95	0.48
1:AA:1710:C:H6	1:AA:1710:C:O5'	1.95	0.48
1:AA:1753:G:C8	1:AA:1753:G:C3'	2.95	0.48
1:AA:1788:C:C2'	4:AD:222:ARG:NH2	2.50	0.48
1:AA:1802:A:N3	1:AA:1802:A:C2'	2.67	0.48
1:AA:1853:A:H2'	1:AA:1854:A:O4'	2.13	0.48
1:AA:1859:A:H8	1:AA:1859:A:O5'	1.96	0.48
1:AA:1953:A:N6	1:AA:2550:G:C4'	2.77	0.48
1:AA:2016:U:C1'	28:Ab:6:VAL:HG11	2.43	0.48
1:AA:2033:A:HO2'	1:AA:2034:U:P	2.36	0.48
1:AA:2044:C:C4	1:AA:2625:G:C2	3.01	0.48
1:AA:2056:G:O5'	1:AA:2057:A:P	2.71	0.48
1:AA:2126:A:HO2'	1:AA:2127:G:P	2.36	0.48
1:AA:2134:A:H5''	1:AA:2134:A:N3	2.27	0.48
1:AA:2175:C:O2	1:AA:2175:C:H2'	2.12	0.48
1:AA:2245:U:C2	1:AA:2435:A:C8	3.01	0.48
1:AA:2258:C:C4	1:AA:2426:A:O4'	2.66	0.48
1:AA:2307:G:N9	1:AA:2308:G:H1'	2.27	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2310:A:H2	7:AG:83:ARG:NH1	2.10	0.48
1:AA:2476:A:C2	1:AA:2481:G:N2	2.78	0.48
1:AA:2588:G:C5	1:AA:2589:A:N7	2.80	0.48
1:AA:2596:U:C2'	4:AD:242:ARG:NE	2.75	0.48
1:AA:2619:C:H5'	5:AE:151:TYR:O	2.13	0.48
1:AA:2640:G:H2'	1:AA:2641:G:H8	1.77	0.48
1:AA:2661:G:H5''	55:CA:14:VAL:CG2	2.43	0.48
1:AA:2680:C:H5''	5:AE:188:VAL:O	2.13	0.48
1:AA:2827:C:H2'	1:AA:2828:C:C5'	2.43	0.48
1:AA:2847:U:H5'	1:AA:2848:G:OP2	2.13	0.48
2:AB:6:C:O2'	2:AB:7:G:O5'	2.26	0.48
2:AB:53:A:C6	2:AB:54:G:C5	3.00	0.48
2:AB:61:G:C2	2:AB:62:C:C2	3.01	0.48
2:AB:85:G:C2	2:AB:86:G:C4	3.01	0.48
3:AC:19:ILE:CD1	3:AC:223:ARG:HB3	2.19	0.48
3:AC:49:ILE:HG23	3:AC:208:PHE:CE1	2.47	0.48
4:AD:91:ARG:NH1	4:AD:198:ASN:HD22	2.11	0.48
4:AD:120:GLY:O	4:AD:131:LEU:CD1	2.48	0.48
4:AD:142:VAL:CG1	4:AD:193:VAL:HA	2.21	0.48
4:AD:144:ALA:HB3	4:AD:192:THR:HB	1.95	0.48
4:AD:246:PRO:HG2	4:AD:250:TRP:HD1	1.74	0.48
5:AE:38:THR:C	5:AE:40:GLU:N	2.68	0.48
5:AE:150:VAL:HG12	5:AE:150:VAL:O	2.13	0.48
6:AF:31:HIS:ND1	13:AM:14:LYS:CE	2.75	0.48
6:AF:35:GLU:CA	6:AF:38:ARG:HD2	2.43	0.48
6:AF:47:GLY:O	6:AF:95:ARG:O	2.30	0.48
6:AF:103:LYS:HA	6:AF:106:ARG:CD	2.42	0.48
7:AG:35:GLU:HG2	7:AG:36:LYS:N	2.28	0.48
8:AH:28:GLY:HA3	8:AH:79:VAL:C	2.38	0.48
10:AJ:17:ALA:HB3	10:AJ:42:ASN:CB	2.43	0.48
10:AJ:78:ILE:HG21	10:AJ:127:ILE:N	2.27	0.48
12:AL:70:LYS:CB	12:AL:72:PRO:HD2	2.43	0.48
13:AM:97:PRO:HD3	13:AM:102:ARG:NH2	2.28	0.48
13:AM:126:VAL:HB	13:AM:146:VAL:CB	2.43	0.48
13:AM:127:ALA:HB3	13:AM:130:PHE:CE1	2.48	0.48
13:AM:130:PHE:C	13:AM:134:ALA:HB3	2.39	0.48
14:AN:43:THR:O	14:AN:44:ALA:C	2.54	0.48
14:AN:85:LYS:NZ	24:AX:10:THR:CG2	2.74	0.48
15:AO:17:ARG:HG3	15:AO:18:LEU:HD22	1.95	0.48
15:AO:72:ASP:OD2	15:AO:74:LYS:HB2	2.14	0.48
15:AO:102:GLU:HG3	15:AO:103:ARG:N	2.26	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:3:ARG:HG2	16:AP:4:LEU:CG	2.22	0.48
16:AP:68:GLN:C	16:AP:70:GLY:N	2.71	0.48
17:AQ:86:ILE:CG2	17:AQ:87:ASP:N	2.76	0.48
18:AR:47:TYR:O	18:AR:48:ALA:C	2.56	0.48
18:AR:47:TYR:CE1	19:AS:75:PHE:HB3	2.48	0.48
19:AS:52:VAL:O	19:AS:55:ALA:N	2.46	0.48
23:AW:29:TYR:CD1	23:AW:89:PHE:CE1	3.01	0.48
23:AW:127:LYS:CA	23:AW:164:ALA:H	2.23	0.48
23:AW:151:HIS:CD2	23:AW:170:THR:HA	2.48	0.48
24:AX:44:ARG:O	24:AX:77:ARG:HG3	2.13	0.48
26:AZ:26:LEU:CG	26:AZ:35:ARG:NH2	2.70	0.48
27:Aa:40:HIS:CB	27:Aa:41:PRO:CD	2.88	0.48
27:Aa:50:VAL:O	27:Aa:51:ASP:CB	2.62	0.48
27:Aa:56:VAL:CG1	27:Aa:61:ARG:HG2	2.43	0.48
28:Ab:35:GLU:HG2	28:Ab:49:CYS:HB3	1.94	0.48
30:Ad:10:ARG:O	30:Ad:11:LYS:C	2.56	0.48
30:Ad:41:ARG:CG	30:Ad:42:LEU:N	2.73	0.48
33:Ag:309:UNK:CA	55:CA:142:ASP:OD1	2.61	0.48
34:BA:16:A:O4'	38:BI:17:ALA:HB3	2.11	0.48
34:BA:41:G:N3	34:BA:42:G:C8	2.81	0.48
34:BA:60:A:H62	34:BA:110:C:N4	2.10	0.48
34:BA:76:G:H2'	34:BA:77:C:C6	2.48	0.48
34:BA:458:C:H3'	34:BA:464:G:C8	2.48	0.48
34:BA:584:G:H2'	34:BA:585:G:O5'	2.13	0.48
34:BA:621:A:H2'	34:BA:622:A:H8	1.77	0.48
34:BA:821:G:O6	34:BA:880:C:N4	2.46	0.48
34:BA:949:A:O2'	34:BA:1364:U:N3	2.46	0.48
34:BA:967:C:OP2	34:BA:968:A:H3'	2.13	0.48
34:BA:1025:U:H4'	34:BA:1025:U:OP1	2.13	0.48
34:BA:1052:U:OP2	34:BA:1200:C:O2	2.32	0.48
34:BA:1065:U:O2'	34:BA:1066:C:P	2.71	0.48
34:BA:1066:C:C3'	34:BA:1067:A:C8	2.90	0.48
34:BA:1158:C:H4'	35:BF:133:LYS:HD2	1.95	0.48
34:BA:1260:C:O5'	34:BA:1284:C:H4'	2.12	0.48
34:BA:1348:U:OP2	42:BM:109:VAL:HA	2.13	0.48
34:BA:1353:G:C2	34:BA:1370:G:C2	3.01	0.48
34:BA:1388:C:O2'	34:BA:1389:C:H5'	2.13	0.48
34:BA:1400:C:OP1	34:BA:1400:C:C6	2.66	0.48
34:BA:1446:A:H2'	34:BA:1447:G:H5'	1.93	0.48
35:BF:144:ARG:O	35:BF:147:LYS:CB	2.60	0.48
35:BF:181:PHE:HE1	41:BL:70:GLN:NE2	2.11	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:25:GLY:N	36:BG:28:GLN:NE2	2.61	0.48
36:BG:55:VAL:HG12	36:BG:57:ILE:HG13	1.94	0.48
37:BH:24:GLU:C	37:BH:24:GLU:OE2	2.55	0.48
37:BH:104:VAL:CG2	37:BH:105:VAL:N	2.76	0.48
37:BH:128:VAL:CG1	37:BH:129:ASN:N	2.75	0.48
37:BH:200:GLU:C	37:BH:204:ILE:HD12	2.38	0.48
39:BJ:41:GLU:O	39:BJ:42:GLU:CB	2.60	0.48
40:BK:94:ARG:O	40:BK:97:GLN:HB3	2.13	0.48
41:BL:44:PHE:O	41:BL:64:LYS:HD2	2.12	0.48
41:BL:102:ARG:CB	41:BL:102:ARG:NH1	2.77	0.48
42:BM:41:VAL:O	42:BM:44:VAL:HG22	2.13	0.48
42:BM:47:LEU:O	42:BM:50:LEU:HB3	2.13	0.48
42:BM:53:VAL:HG21	42:BM:92:TYR:CD1	2.48	0.48
42:BM:67:GLY:O	42:BM:68:GLY:C	2.54	0.48
42:BM:75:ASP:O	42:BM:78:LYS:HB3	2.13	0.48
43:BN:52:GLY:O	43:BN:53:PRO:C	2.57	0.48
44:BO:44:SER:N	44:BO:47:VAL:CG2	2.77	0.48
45:BP:24:VAL:CG1	45:BP:26:ALA:H	2.26	0.48
47:BR:26:ARG:HB3	47:BR:43:CYS:CB	2.43	0.48
50:BU:88:TYR:HA	50:BU:91:ARG:HE	1.76	0.48
51:BV:74:ARG:CA	51:BV:79:LEU:HD21	2.42	0.48
51:BV:79:LEU:CD1	51:BV:79:LEU:N	2.75	0.48
55:CA:50:LYS:NZ	55:CA:368:VAL:HG22	2.28	0.48
55:CA:180:ALA:CB	55:CA:181:GLU:C	2.85	0.48
55:CA:325:PHE:O	55:CA:378:PHE:HD1	1.95	0.48
55:CA:381:ALA:HB1	55:CA:577:LEU:HB3	1.95	0.48
55:CA:446:ARG:O	55:CA:480:VAL:HG11	2.12	0.48
55:CA:464:LEU:N	55:CA:464:LEU:CD1	2.74	0.48
55:CA:495:LYS:HA	55:CA:517:GLU:N	2.25	0.48
1:AA:3:U:H6	1:AA:3:U:O5'	1.96	0.48
1:AA:199:A:H5'	1:AA:200:U:OP2	2.13	0.48
1:AA:209:C:O5'	1:AA:209:C:H6	1.94	0.48
1:AA:226:G:H21	1:AA:228:A:N6	2.11	0.48
1:AA:270(P):C:O2'	1:AA:270(Q):C:H5'	2.12	0.48
1:AA:497:A:H8	1:AA:497:A:O5'	1.95	0.48
1:AA:532:A:O2'	18:AR:28:ARG:HD3	2.14	0.48
1:AA:572:A:H61	1:AA:2029:G:C1'	2.26	0.48
1:AA:600:G:C1'	6:AF:105:VAL:HG21	2.43	0.48
1:AA:604:G:O2'	1:AA:605:C:O5'	2.31	0.48
1:AA:714:U:O2'	1:AA:715:G:N7	2.40	0.48
1:AA:954:G:C6	1:AA:955:C:C2	3.02	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1022:G:C5	1:AA:1139:G:N1	2.81	0.48
1:AA:1043:C:H6	1:AA:1043:C:H3'	1.78	0.48
1:AA:1114:G:H21	1:AA:1115:G:H1'	1.69	0.48
1:AA:1143:A:O2'	1:AA:1144:G:C5'	2.61	0.48
1:AA:1169:G:H2'	1:AA:1170:G:C1'	2.44	0.48
1:AA:1200:C:C2	1:AA:1246:A:C2	3.01	0.48
1:AA:1224:G:O6	1:AA:1225:C:N3	2.46	0.48
1:AA:1240:U:O2	1:AA:1240:U:C2'	2.61	0.48
1:AA:1296:G:C4	1:AA:1297:C:C5	3.01	0.48
1:AA:1334:G:C6	1:AA:1335:U:C4	3.01	0.48
1:AA:1735:C:C2	1:AA:1741:C:C5	3.00	0.48
1:AA:1775:U:C1'	4:AD:208:LYS:NZ	2.76	0.48
1:AA:1782:C:C2	1:AA:2609:U:C6	3.01	0.48
1:AA:1824:G:OP1	4:AD:53:PHE:CZ	2.66	0.48
1:AA:1829:A:H2'	1:AA:1829:A:N3	2.29	0.48
1:AA:2063:C:H2'	1:AA:2064:C:O4'	2.13	0.48
1:AA:2118:U:H5	1:AA:2147:G:N7	2.10	0.48
1:AA:2270:G:H2'	1:AA:2271:G:O4'	2.13	0.48
1:AA:2320:A:C6	16:AP:4:LEU:HD13	2.48	0.48
1:AA:2350:C:C2'	1:AA:2351:G:O5'	2.61	0.48
1:AA:2457:U:C2'	1:AA:2458:G:H5'	2.43	0.48
1:AA:2465:C:O3'	32:Af:5:ALA:HB3	2.14	0.48
1:AA:2486:G:N2	1:AA:2487:G:C4	2.81	0.48
1:AA:2656:U:N3	1:AA:2665:A:N6	2.61	0.48
1:AA:2667:C:H2'	1:AA:2668:G:C4'	2.42	0.48
1:AA:2692:C:H1'	1:AA:2847:U:O2'	2.12	0.48
1:AA:2740:A:C4	1:AA:2741:A:N7	2.82	0.48
1:AA:2741:A:H2'	1:AA:2742:C:H6	1.79	0.48
2:AB:71:C:O2	2:AB:72:G:H4'	2.13	0.48
2:AB:75:G:O6	2:AB:76:G:N2	2.46	0.48
2:AB:99:A:N6	2:AB:100:G:C6	2.82	0.48
3:AC:123:VAL:CG1	3:AC:138:PRO:HG2	2.41	0.48
4:AD:65:ILE:HG23	4:AD:104:TYR:O	2.14	0.48
5:AE:49:LEU:CD1	5:AE:76:ARG:O	2.60	0.48
5:AE:91:VAL:HG22	5:AE:92:THR:N	2.28	0.48
5:AE:103:ASP:O	5:AE:104:VAL:HG23	2.10	0.48
5:AE:198:VAL:HG12	5:AE:199:ARG:N	2.28	0.48
6:AF:11:VAL:HB	6:AF:17:ARG:HH12	1.78	0.48
6:AF:52:LYS:NZ	6:AF:88:VAL:HG21	2.28	0.48
6:AF:116:ASP:HA	6:AF:119:ARG:HD2	1.96	0.48
7:AG:26:GLN:CD	7:AG:29:TRP:CE3	2.91	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:94:LEU:CD1	7:AG:94:LEU:N	2.76	0.48
8:AH:35:VAL:CG2	8:AH:75:ALA:CB	2.91	0.48
10:AJ:23:VAL:C	10:AJ:35:MET:SD	2.75	0.48
10:AJ:27:LEU:HD11	10:AJ:57:ILE:HG22	1.95	0.48
10:AJ:77:LEU:HD21	10:AJ:111:LYS:HE3	1.94	0.48
10:AJ:100:THR:HG1	10:AJ:103:GLN:HB3	1.71	0.48
11:AK:99:LEU:HD12	11:AK:100:GLU:HA	1.95	0.48
11:AK:139:GLU:O	11:AK:140:VAL:HG22	2.13	0.48
12:AL:23:ARG:H	12:AL:40:VAL:CG1	2.26	0.48
12:AL:59:LYS:HE2	12:AL:59:LYS:O	2.12	0.48
13:AM:57:THR:O	13:AM:58:THR:OG1	2.26	0.48
13:AM:72:PRO:HB3	13:AM:110:TYR:O	2.13	0.48
15:AO:88:ARG:O	15:AO:89:ASP:HB3	2.13	0.48
16:AP:5:THR:HG22	16:AP:6:ALA:N	2.29	0.48
16:AP:16:ASN:O	16:AP:17:ARG:C	2.57	0.48
16:AP:49:VAL:CG2	16:AP:50:SER:N	2.76	0.48
16:AP:57:LYS:NZ	16:AP:65:VAL:N	2.60	0.48
16:AP:112:PHE:CD1	16:AP:112:PHE:C	2.91	0.48
18:AR:89:GLU:CB	19:AS:51:VAL:HB	2.43	0.48
19:AS:72:VAL:HG12	19:AS:73:SER:N	2.26	0.48
22:AV:42:VAL:C	22:AV:61:ILE:HD13	2.38	0.48
23:AW:49:ARG:C	23:AW:51:ALA:H	2.21	0.48
26:AZ:4:LEU:HD23	26:AZ:5:LYS:O	2.12	0.48
26:AZ:52:HIS:CG	26:AZ:53:LEU:H	2.30	0.48
27:Aa:57:GLU:O	27:Aa:60:GLN:HG3	2.12	0.48
29:Ac:16:CYS:O	29:Ac:17:LYS:C	2.56	0.48
29:Ac:17:LYS:HE2	29:Ac:49:HIS:O	2.12	0.48
29:Ac:19:ARG:NH2	29:Ac:41:PRO:HG3	2.27	0.48
30:Ad:46:VAL:O	30:Ad:47:ARG:C	2.56	0.48
31:Ae:30:ARG:CG	31:Ae:31:HIS:H	2.23	0.48
31:Ae:61:LEU:O	31:Ae:62:LEU:HD23	2.13	0.48
34:BA:60:A:O2'	34:BA:61:G:P	2.71	0.48
34:BA:115:G:O2'	34:BA:116:A:N7	2.47	0.48
34:BA:243:A:O2'	34:BA:244:U:OP2	2.16	0.48
34:BA:521:G:N2	34:BA:522:C:C2	2.81	0.48
34:BA:684:A:O2'	44:BO:39:PRO:O	2.30	0.48
34:BA:858:G:O5'	34:BA:858:G:C8	2.66	0.48
34:BA:886:G:HO2'	34:BA:887:G:H5'	1.71	0.48
34:BA:924:C:C2'	34:BA:925:G:O5'	2.61	0.48
34:BA:1212:U:OP2	34:BA:1212:U:O4'	2.32	0.48
34:BA:1240:U:H4'	34:BA:1241:G:OP2	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1311:G:C4	34:BA:1327:C:H1'	2.46	0.48
34:BA:1321:C:C5	34:BA:1322:C:C3'	2.97	0.48
34:BA:1342:C:H2'	34:BA:1343:G:C8	2.48	0.48
34:BA:1370:G:H5''	42:BM:12:GLU:CG	2.43	0.48
34:BA:1415:G:H2'	34:BA:1416:G:O5'	2.12	0.48
34:BA:1494:G:H22	34:BA:1496:C:H41	1.61	0.48
35:BF:55:PHE:CD2	35:BF:58:ILE:HD12	2.48	0.48
35:BF:104:ASN:OD1	35:BF:104:ASN:O	2.31	0.48
36:BG:36:ASP:HA	36:BG:39:ILE:CD1	2.40	0.48
36:BG:179:ARG:CD	36:BG:206:GLU:OE1	2.61	0.48
37:BH:79:PHE:HA	37:BH:93:PHE:CD1	2.48	0.48
37:BH:148:VAL:HG21	37:BH:162:LEU:HD21	1.93	0.48
37:BH:148:VAL:HG13	37:BH:152:SER:OG	2.13	0.48
38:BI:72:GLN:HE22	38:BI:144:THR:HG23	1.74	0.48
39:BJ:34:GLY:HA3	39:BJ:68:PRO:CG	2.44	0.48
39:BJ:53:ALA:O	39:BJ:55:ASP:OD1	2.31	0.48
39:BJ:62:TRP:CD1	51:BV:35:ARG:HH22	2.32	0.48
41:BL:92:ARG:N	41:BL:92:ARG:CD	2.75	0.48
42:BM:70:LYS:O	42:BM:71:SER:C	2.56	0.48
43:BN:31:GLY:N	43:BN:81:THR:OG1	2.46	0.48
44:BO:84:VAL:O	44:BO:85:ARG:HD3	2.13	0.48
52:BW:10:PHE:C	52:BW:11:VAL:CG2	2.87	0.48
52:BW:68:GLY:O	52:BW:69:HIS:ND1	2.46	0.48
55:CA:17:GLY:HA3	55:CA:20:THR:HG21	1.93	0.48
55:CA:25:LEU:C	55:CA:28:GLN:HG2	2.24	0.48
55:CA:40:GLU:H	55:CA:41:ARG:CB	2.27	0.48
55:CA:81:PHE:CE2	55:CA:342:ASN:ND2	2.81	0.48
55:CA:205:PHE:HD1	55:CA:229:GLY:O	1.96	0.48
55:CA:223:ILE:CA	55:CA:272:ASP:CG	2.54	0.48
55:CA:251:VAL:O	55:CA:262:ARG:N	2.45	0.48
55:CA:443:ILE:CD1	55:CA:447:GLY:O	2.61	0.48
1:AA:37:C:HO2'	6:AF:50:SER:CB	2.23	0.48
1:AA:51:G:C1'	1:AA:118:A:N6	2.70	0.48
1:AA:63:U:O2'	1:AA:64:A:N7	2.40	0.48
1:AA:308:G:C2	1:AA:309:G:C1'	2.81	0.48
1:AA:386:G:O2'	1:AA:387:U:OP2	2.31	0.48
1:AA:460:A:C2'	1:AA:461:C:C6	2.92	0.48
1:AA:534:U:HO2'	18:AR:49:HIS:HE2	1.47	0.48
1:AA:631:A:C2	1:AA:2416:C:O4'	2.66	0.48
1:AA:635:C:H2'	1:AA:636:G:O4'	2.12	0.48
1:AA:645:C:H4'	1:AA:646:A:C8	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:715:G:C2'	1:AA:716:A:O5'	2.61	0.48
1:AA:716:A:O4'	48:BS:44:LYS:NZ	2.45	0.48
1:AA:721:C:O2'	1:AA:722:A:H5'	2.14	0.48
1:AA:753:C:OP1	30:Ad:1:MET:HE1	2.14	0.48
1:AA:936:C:C2	1:AA:937:U:C5	3.02	0.48
1:AA:987:G:OP1	26:AZ:13:ILE:CG2	2.57	0.48
1:AA:1011:G:H2'	1:AA:1013:C:H5''	1.95	0.48
1:AA:1027:A:N6	1:AA:1126:A:H1'	2.27	0.48
1:AA:1053:C:N4	1:AA:1054:A:N6	2.62	0.48
1:AA:1188:U:H2'	1:AA:1189:A:C5'	2.43	0.48
1:AA:1310:G:N7	1:AA:1311:G:C2	2.81	0.48
1:AA:1432:C:C2	1:AA:1433:U:C2	3.02	0.48
1:AA:1500:G:O2'	1:AA:1501:C:H5'	2.12	0.48
1:AA:1525:G:C2'	1:AA:1526:G:O5'	2.61	0.48
1:AA:1529:A:H3'	1:AA:1530:G:C8	2.46	0.48
1:AA:1643:G:N2	1:AA:1644:C:H1'	2.28	0.48
1:AA:1821:A:N6	1:AA:1822:G:O6	2.46	0.48
1:AA:1826:G:O5'	1:AA:1826:G:C8	2.64	0.48
1:AA:1907:G:N2	1:AA:1908:C:C2	2.81	0.48
1:AA:1953:A:H62	1:AA:2550:G:C5'	2.25	0.48
1:AA:2014:A:O5'	1:AA:2014:A:C8	2.61	0.48
1:AA:2021:C:O4'	1:AA:2021:C:OP1	2.32	0.48
1:AA:2021:C:H41	18:AR:28:ARG:HH22	1.60	0.48
1:AA:2046:G:H2'	1:AA:2047:U:H5	1.78	0.48
1:AA:2053:G:O4'	5:AE:149:ARG:HA	2.13	0.48
1:AA:2110:G:H8	1:AA:2110:G:OP2	1.97	0.48
1:AA:2126:A:O2'	1:AA:2127:G:P	2.72	0.48
1:AA:2163:C:OP1	1:AA:2172:U:C5	2.67	0.48
1:AA:2243:U:O2'	1:AA:2244:U:O4'	2.31	0.48
1:AA:2259:G:O4'	1:AA:2427:C:C5	2.66	0.48
1:AA:2259:G:C5	1:AA:2260:C:C5	3.01	0.48
1:AA:2265:U:C2'	1:AA:2266:A:OP1	2.60	0.48
1:AA:2324:C:O2'	1:AA:2325:G:OP1	2.31	0.48
1:AA:2352:A:H2	24:AX:33:ALA:O	1.96	0.48
1:AA:2384:G:OP2	1:AA:2384:G:C8	2.54	0.48
1:AA:2397:G:C2	1:AA:2420:C:C2	3.02	0.48
1:AA:2402:C:C5'	1:AA:2403:C:OP1	2.57	0.48
1:AA:2423:U:O2'	1:AA:2425:A:C3'	2.61	0.48
1:AA:2470:G:C2	1:AA:2471:C:C5	3.01	0.48
1:AA:2640:G:C4	1:AA:2641:G:C8	3.01	0.48
1:AA:2723:C:OP2	5:AE:109:LYS:NZ	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2876:G:C5'	17:AQ:1:MET:N	2.73	0.48
2:AB:57:A:O4'	7:AG:29:TRP:CZ3	2.67	0.48
2:AB:61:G:C4	2:AB:62:C:C5	3.02	0.48
3:AC:18:LYS:O	3:AC:20:TYR:CE1	2.66	0.48
3:AC:22:ILE:CG2	3:AC:189:ILE:HG21	2.43	0.48
3:AC:115:ALA:CB	3:AC:123:VAL:HG21	2.43	0.48
4:AD:77:ALA:O	4:AD:116:GLN:HA	2.13	0.48
4:AD:147:LEU:H	4:AD:154:LYS:CG	2.27	0.48
5:AE:59:VAL:O	5:AE:62:PRO:HD2	2.14	0.48
5:AE:71:GLY:C	5:AE:72:VAL:HG13	2.39	0.48
5:AE:104:VAL:HG22	5:AE:198:VAL:HA	1.95	0.48
5:AE:142:GLY:O	5:AE:143:ASN:CG	2.56	0.48
6:AF:65:TRP:CE3	6:AF:65:TRP:HA	2.49	0.48
6:AF:110:LEU:HG	6:AF:183:VAL:N	2.28	0.48
6:AF:163:VAL:HG11	6:AF:195:ASP:OD2	2.13	0.48
7:AG:33:ARG:NH1	7:AG:34:LEU:C	2.70	0.48
7:AG:59:GLU:O	7:AG:60:LEU:C	2.56	0.48
8:AH:131:VAL:O	8:AH:131:VAL:HG12	2.12	0.48
10:AJ:10:LEU:HG	10:AJ:56:GLU:C	2.04	0.48
11:AK:21:LYS:HD3	11:AK:26:LEU:HD22	1.96	0.48
11:AK:77:GLY:C	11:AK:78:TYR:O	2.55	0.48
11:AK:111:PRO:C	11:AK:114:ARG:HB3	2.35	0.48
12:AL:12:ASP:O	12:AL:94:ARG:NH1	2.46	0.48
12:AL:87:ILE:O	12:AL:88:ASN:C	2.56	0.48
12:AL:99:PHE:HA	12:AL:122:LEU:O	2.14	0.48
12:AL:105:GLU:O	12:AL:106:LEU:C	2.56	0.48
13:AM:6:LEU:O	13:AM:7:ARG:HG3	2.13	0.48
14:AN:15:GLY:HA2	14:AN:73:PRO:HG2	1.96	0.48
14:AN:80:GLU:O	14:AN:81:VAL:O	2.31	0.48
14:AN:115:MET:C	14:AN:119:ARG:HG3	2.39	0.48
15:AO:37:THR:O	15:AO:38:VAL:C	2.55	0.48
16:AP:49:VAL:HG11	16:AP:80:LEU:CG	2.32	0.48
16:AP:70:GLY:C	16:AP:72:ALA:N	2.68	0.48
17:AQ:102:ILE:O	17:AQ:103:ARG:C	2.56	0.48
18:AR:108:GLU:CA	18:AR:111:GLU:HG2	2.44	0.48
20:AT:76:VAL:HG22	20:AT:102:HIS:O	2.13	0.48
20:AT:78:GLU:OE2	20:AT:101:SER:N	2.46	0.48
22:AV:26:LYS:CE	22:AV:36:ALA:HB3	2.44	0.48
22:AV:96:ILE:HB	22:AV:102:CYS:O	2.13	0.48
23:AW:6:LYS:CB	23:AW:37:VAL:HG13	2.42	0.48
23:AW:100:VAL:HG23	23:AW:102:LEU:HD23	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:28:MET:HE2	25:AY:32:PHE:CZ	2.47	0.48
29:Ac:8:LYS:O	29:Ac:9:LEU:HD22	2.13	0.48
30:Ad:34:ARG:NH2	30:Ad:42:LEU:HD23	2.28	0.48
31:Ae:22:VAL:HG13	31:Ae:23:VAL:H	1.78	0.48
33:Ag:290:UNK:C	33:Ag:342:UNK:C	2.77	0.48
34:BA:20:U:H5	34:BA:916:G:H1	1.61	0.48
34:BA:21:G:N2	34:BA:916:G:C6	2.80	0.48
34:BA:41:G:C4	34:BA:42:G:N7	2.81	0.48
34:BA:292:G:OP2	34:BA:293:G:N7	2.47	0.48
34:BA:342:C:C2	34:BA:343:U:C5	3.02	0.48
34:BA:404:U:OP1	37:BH:118:ARG:CZ	2.61	0.48
34:BA:430:A:C5	34:BA:431:A:C8	3.01	0.48
34:BA:432:A:C8	34:BA:433:C:C6	3.01	0.48
34:BA:509:A:N3	34:BA:543:C:O2'	2.39	0.48
34:BA:520:A:OP2	45:BP:51:ALA:CB	2.60	0.48
34:BA:580:U:O4	34:BA:761:G:O6	2.31	0.48
34:BA:580:U:C4'	48:BS:58:MET:HG2	2.42	0.48
34:BA:706:A:C4'	44:BO:29:ILE:HD13	2.44	0.48
34:BA:720:C:H4'	51:BV:50:ILE:HG22	1.94	0.48
34:BA:748:C:O2'	34:BA:749:C:C5'	2.61	0.48
34:BA:888:G:H3'	34:BA:889:A:H8	1.78	0.48
34:BA:986:A:C1'	52:BW:55:LYS:HG2	2.42	0.48
34:BA:1100:C:O2	34:BA:1102:A:C5'	2.56	0.48
34:BA:1115:C:N1	34:BA:1186:G:N2	2.61	0.48
34:BA:1117:G:N9	34:BA:1184:G:N2	2.61	0.48
34:BA:1142:G:O2'	34:BA:1143:G:C5'	2.61	0.48
34:BA:1152:A:P	43:BN:13:HIS:NE2	2.82	0.48
34:BA:1193:G:O2'	34:BA:1194:U:H5'	2.13	0.48
34:BA:1300:G:C2'	34:BA:1301:U:OP2	2.61	0.48
34:BA:1316:G:H5''	47:BR:17:LYS:HD2	1.94	0.48
34:BA:1342:C:C5'	42:BM:125:TYR:HB2	2.44	0.48
34:BA:1358:U:H5''	34:BA:1359:C:OP2	2.13	0.48
34:BA:1371:G:OP2	42:BM:11:LYS:CE	2.62	0.48
34:BA:1480:G:H2'	34:BA:1481:U:C5'	2.43	0.48
35:BF:36:ARG:HE	35:BF:36:ARG:HA	1.79	0.48
35:BF:42:ILE:HD12	35:BF:202:PRO:HB2	1.90	0.48
35:BF:102:LEU:CB	35:BF:176:GLU:OE1	2.52	0.48
35:BF:140:HIS:C	35:BF:143:GLU:HB3	2.39	0.48
36:BG:119:ARG:C	36:BG:121:ALA:N	2.70	0.48
36:BG:189:ALA:HB3	36:BG:196:LEU:N	2.12	0.48
37:BH:30:LYS:HZ3	37:BH:35:ARG:CD	2.26	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:118:ARG:HA	37:BH:136:PRO:HB3	1.95	0.48
37:BH:187:ARG:HG3	37:BH:188:LEU:N	2.28	0.48
39:BJ:52:ILE:HD13	39:BJ:87:ARG:HH21	1.70	0.48
41:BL:24:THR:H	41:BL:60:ARG:CD	2.26	0.48
41:BL:36:LEU:HD12	41:BL:48:TYR:CD1	2.48	0.48
41:BL:92:ARG:HG2	41:BL:92:ARG:NH1	2.24	0.48
42:BM:2:GLU:O	42:BM:21:PRO:HD2	2.13	0.48
44:BO:48:ILE:HD12	44:BO:63:LEU:CD2	2.22	0.48
45:BP:52:LEU:HG	45:BP:52:LEU:O	2.11	0.48
45:BP:126:LYS:HD2	45:BP:126:LYS:O	2.14	0.48
47:BR:40:CYS:O	47:BR:41:ARG:C	2.54	0.48
48:BS:63:ARG:O	48:BS:64:ARG:C	2.56	0.48
48:BS:77:ARG:C	48:BS:77:ARG:CZ	2.86	0.48
49:BT:6:LEU:CG	49:BT:17:TYR:HD2	2.26	0.48
50:BU:43:LEU:CD2	50:BU:44:ALA:N	2.61	0.48
55:CA:59:LYS:CB	55:CA:66:TRP:HH2	2.27	0.48
55:CA:73:VAL:HB	55:CA:74:ASP:O	2.14	0.48
55:CA:127:ILE:N	55:CA:164:TYR:HA	2.29	0.48
55:CA:129:LYS:HZ1	57:CA:701:GCP:C1'	2.26	0.48
55:CA:249:ALA:HB3	55:CA:275:ALA:HB3	1.88	0.48
55:CA:406:ASP:CG	55:CA:437:VAL:H	2.21	0.48
55:CA:419:LEU:HD12	55:CA:441:TYR:CB	2.44	0.48
1:AA:116:C:C2'	1:AA:117:G:O5'	2.62	0.48
1:AA:119:A:C4'	1:AA:120:U:H5'	2.42	0.48
1:AA:149:A:C5	1:AA:150:C:C5	3.01	0.48
1:AA:162:U:O4	1:AA:163:U:N3	2.46	0.48
1:AA:193:U:O4	1:AA:202:U:O2	2.30	0.48
1:AA:197:A:H5''	1:AA:2068:U:O4	2.14	0.48
1:AA:247:G:N1	31:Ae:8:LYS:HD2	2.28	0.48
1:AA:249:C:C5	1:AA:2395:C:OP1	2.66	0.48
1:AA:270(B):A:C1'	1:AA:270(C):C:C5	2.92	0.48
1:AA:270(J):G:N1	1:AA:270(K):C:C2	2.82	0.48
1:AA:336:C:H4'	22:AV:67:LEU:HD21	1.93	0.48
1:AA:350:U:H2'	1:AA:351:G:OP1	2.13	0.48
1:AA:371:A:H5''	1:AA:423:A:C5	2.46	0.48
1:AA:575:A:C2'	1:AA:576:U:H5'	2.42	0.48
1:AA:578:A:OP1	1:AA:1255:U:O2'	2.28	0.48
1:AA:586:A:N6	1:AA:809:G:O2'	2.43	0.48
1:AA:600:G:H4'	6:AF:105:VAL:HG13	1.96	0.48
1:AA:603:A:H5''	13:AM:100:LEU:HD21	1.95	0.48
1:AA:617:G:P	6:AF:40:GLN:OE1	2.71	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:715:G:C4	1:AA:716:A:C6	3.01	0.48
1:AA:733:G:C5	1:AA:761:A:C5	3.01	0.48
1:AA:740:U:O5'	1:AA:1784:A:C2	2.67	0.48
1:AA:800:A:O2'	1:AA:801:G:O5'	2.31	0.48
1:AA:837:C:H2'	1:AA:838:C:O5'	2.14	0.48
1:AA:873:G:O2'	14:AN:65:PHE:CZ	2.59	0.48
1:AA:957:A:N1	1:AA:2459:A:C5'	2.77	0.48
1:AA:1029:A:N6	1:AA:1125:G:C2	2.81	0.48
1:AA:1097:U:H2'	1:AA:1098:A:O4'	2.14	0.48
1:AA:1137:G:O2'	11:AK:102:ALA:HA	2.13	0.48
1:AA:1139:G:OP1	11:AK:23:LEU:HB2	2.13	0.48
1:AA:1181:C:N4	1:AA:1182:A:N6	2.62	0.48
1:AA:1247:A:O2'	1:AA:1248:G:O5'	2.30	0.48
1:AA:1340:U:C6	21:AU:57:LEU:HD11	2.48	0.48
1:AA:1351:C:N4	1:AA:1381:G:C6	2.81	0.48
1:AA:1364:G:H5''	1:AA:1809:A:N3	2.29	0.48
1:AA:1456:G:N3	1:AA:1457:A:C8	2.81	0.48
1:AA:1496:A:O2'	1:AA:1497:U:C5	2.49	0.48
1:AA:1575:C:C4	1:AA:1576:U:C4	3.02	0.48
1:AA:1661:G:C6	1:AA:1662:C:C4	3.01	0.48
1:AA:1762:A:H5'	1:AA:1763:G:OP2	2.13	0.48
1:AA:1790:C:O3'	4:AD:213:ARG:HD3	2.13	0.48
1:AA:1812:A:C5	1:AA:1813:G:C8	3.01	0.48
1:AA:1864:U:O2'	1:AA:1869:G:H5'	2.12	0.48
1:AA:1910:G:N2	1:AA:1911:U:N3	2.60	0.48
1:AA:1936:A:C4	1:AA:1945:G:C6	3.02	0.48
1:AA:1965:C:H5'	1:AA:1966:A:H3'	1.96	0.48
1:AA:2213:U:C3'	1:AA:2213:U:C2	2.96	0.48
1:AA:2244:U:O4'	1:AA:2434:A:N6	2.47	0.48
1:AA:2251:G:C2	1:AA:2450:A:H1'	2.49	0.48
1:AA:2297:C:N3	1:AA:2333:A:N6	2.60	0.48
1:AA:2312:U:H2'	1:AA:2313:C:H6	1.78	0.48
1:AA:2358:G:C2	1:AA:2359:C:C6	3.01	0.48
1:AA:2406:U:O5'	1:AA:2407:G:OP1	2.32	0.48
1:AA:2487:G:N3	1:AA:2488:A:C8	2.82	0.48
1:AA:2579:C:O2'	1:AA:2580:U:H5'	2.14	0.48
1:AA:2618:G:C2	5:AE:150:VAL:HG11	2.46	0.48
1:AA:2638:G:N1	1:AA:2776:A:OP2	2.37	0.48
1:AA:2647:U:C2'	1:AA:2648:C:C6	2.88	0.48
1:AA:2666:C:C4	1:AA:2667:C:C5	2.99	0.48
1:AA:2682:U:C4	5:AE:21:VAL:HG11	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2746:U:OP1	8:AH:142:GLY:HA3	2.14	0.48
1:AA:2752:C:N3	1:AA:2753:A:C8	2.81	0.48
1:AA:2788:C:N3	1:AA:2789:C:C5	2.69	0.48
1:AA:2866:U:O2	1:AA:2868:A:C1'	2.60	0.48
2:AB:83:G:H5'	26:AZ:52:HIS:NE2	2.27	0.48
3:AC:75:LEU:HD23	3:AC:77:ILE:CD1	2.34	0.48
3:AC:137:LEU:HD23	3:AC:138:PRO:HD2	1.95	0.48
4:AD:5:LYS:HA	4:AD:29:PRO:HD3	1.96	0.48
4:AD:89:SER:HB2	4:AD:202:LYS:NZ	2.26	0.48
4:AD:106:ILE:HD12	4:AD:192:THR:HG23	1.93	0.48
6:AF:30:PRO:HG2	6:AF:31:HIS:H	1.78	0.48
6:AF:119:ARG:HB2	6:AF:119:ARG:CZ	2.40	0.48
7:AG:72:ARG:HA	7:AG:88:ILE:HD11	1.95	0.48
7:AG:107:LEU:HD21	7:AG:173:LEU:HD21	1.95	0.48
7:AG:110:ALA:CB	7:AG:139:LEU:CG	2.90	0.48
8:AH:26:VAL:C	8:AH:79:VAL:HG11	2.39	0.48
8:AH:148:ILE:CG2	8:AH:149:ARG:N	2.76	0.48
9:AI:52:PHE:C	9:AI:54:ALA:N	2.71	0.48
9:AI:140:GLY:N	33:Ag:137:UNK:HA	2.11	0.48
11:AK:9:VAL:O	11:AK:11:PRO:HD3	2.13	0.48
11:AK:15:LEU:HD21	11:AK:137:LYS:HB3	1.94	0.48
11:AK:99:LEU:HD21	11:AK:122:VAL:CG2	2.40	0.48
13:AM:7:ARG:H	13:AM:8:PRO:HD2	1.78	0.48
13:AM:85:LEU:C	13:AM:86:LYS:HG2	2.39	0.48
14:AN:61:GLY:HA2	23:AW:178:GLU:HG3	1.94	0.48
15:AO:61:HIS:CE1	15:AO:64:ARG:NH2	2.81	0.48
16:AP:30:ARG:HD2	16:AP:91:PRO:CB	2.43	0.48
16:AP:43:GLU:C	16:AP:45:GLY:N	2.67	0.48
17:AQ:82:LEU:O	17:AQ:83:ILE:C	2.57	0.48
18:AR:39:LEU:O	18:AR:42:ALA:N	2.46	0.48
18:AR:58:ARG:HH11	18:AR:58:ARG:CG	2.25	0.48
18:AR:89:GLU:N	19:AS:52:VAL:HA	2.23	0.48
19:AS:15:GLU:OE2	19:AS:16:PRO:HD3	2.13	0.48
22:AV:31:LEU:O	22:AV:32:PRO:C	2.49	0.48
22:AV:85:VAL:O	22:AV:87:LYS:N	2.47	0.48
23:AW:42:VAL:C	23:AW:46:LYS:NZ	2.71	0.48
23:AW:60:GLU:CG	23:AW:69:THR:HG22	2.43	0.48
23:AW:161:VAL:O	23:AW:162:GLU:CB	2.56	0.48
24:AX:27:GLU:N	24:AX:69:PHE:CZ	2.81	0.48
24:AX:32:ARG:O	24:AX:35:ASN:CB	2.58	0.48
25:AY:27:LEU:HD12	25:AY:27:LEU:H	1.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:48:C:C5	34:BA:364:A:H2	2.32	0.48
34:BA:124:G:N2	34:BA:238:G:H1'	2.28	0.48
34:BA:261:U:O4	53:BX:79:ARG:NH2	2.46	0.48
34:BA:262:A:C5	34:BA:263:A:N6	2.81	0.48
34:BA:341:C:C2'	34:BA:342:C:O5'	2.61	0.48
34:BA:375:U:C2'	34:BA:376:G:H5'	2.43	0.48
34:BA:663:A:C5'	34:BA:836:G:OP1	2.57	0.48
34:BA:683:G:H2'	34:BA:684:A:C8	2.48	0.48
34:BA:714:G:O2'	34:BA:777:A:N6	2.46	0.48
34:BA:978:A:H61	34:BA:1361:G:N2	2.05	0.48
34:BA:1171:G:C2'	34:BA:1172:C:C6	2.95	0.48
34:BA:1179:A:O3'	42:BM:103:THR:OG1	2.32	0.48
34:BA:1261:A:H3'	34:BA:1262:C:C6	2.48	0.48
34:BA:1346:A:C8	34:BA:1348:U:N3	2.81	0.48
34:BA:1410:G:C2	34:BA:1411:C:C4	3.01	0.48
34:BA:1469:G:N2	34:BA:1470:G:C4	2.81	0.48
35:BF:50:GLU:CD	35:BF:200:ILE:C	2.81	0.48
35:BF:234:PRO:CA	35:BF:238:LEU:HD13	2.38	0.48
36:BG:11:ARG:HG3	36:BG:16:ARG:CZ	2.43	0.48
36:BG:11:ARG:NH2	36:BG:178:LEU:HA	2.27	0.48
36:BG:89:GLU:O	36:BG:90:GLU:C	2.56	0.48
36:BG:110:ASN:ND2	36:BG:144:SER:OG	2.46	0.48
36:BG:124:ILE:HG23	36:BG:130:VAL:CG2	2.43	0.48
38:BI:91:LEU:HD12	38:BI:118:ILE:HG23	1.94	0.48
39:BJ:12:PRO:HG2	39:BJ:13:ASN:ND2	2.28	0.48
40:BK:2:ALA:CB	40:BK:5:ARG:O	2.60	0.48
40:BK:22:LEU:HG	40:BK:63:LYS:HZ2	1.78	0.48
40:BK:102:ARG:O	40:BK:105:VAL:N	2.47	0.48
40:BK:143:ARG:HD2	40:BK:144:MET:N	2.18	0.48
41:BL:21:LYS:O	41:BL:63:LEU:HD13	2.13	0.48
41:BL:82:HIS:CE1	41:BL:84:ARG:HG3	2.48	0.48
42:BM:93:ARG:C	42:BM:95:LYS:H	2.20	0.48
42:BM:100:GLY:C	42:BM:101:PHE:CG	2.91	0.48
44:BO:18:ARG:HD3	44:BO:18:ARG:N	2.28	0.48
44:BO:46:GLY:HA3	44:BO:55:LYS:HD2	1.91	0.48
45:BP:86:ARG:HD3	45:BP:101:VAL:HG11	1.96	0.48
45:BP:126:LYS:NZ	45:BP:128:ALA:N	2.57	0.48
46:BQ:8:GLU:CG	46:BQ:21:TYR:C	2.86	0.48
46:BQ:40:ASN:CG	46:BQ:42:ALA:HB3	2.37	0.48
49:BT:21:VAL:HG22	49:BT:36:ILE:HD13	1.95	0.48
49:BT:26:ARG:NE	49:BT:31:LYS:HZ3	2.11	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:32:TYR:O	50:BU:34:LYS:N	2.46	0.48
50:BU:82:MET:C	50:BU:85:VAL:HB	2.36	0.48
51:BV:63:GLN:HA	51:BV:66:LEU:HD21	1.94	0.48
52:BW:46:GLY:C	52:BW:61:TYR:HE2	2.22	0.48
53:BX:30:LYS:O	53:BX:31:SER:C	2.56	0.48
53:BX:30:LYS:HB2	53:BX:30:LYS:NZ	2.29	0.48
53:BX:51:GLU:HB3	53:BX:54:LYS:HZ1	1.75	0.48
53:BX:84:LEU:C	53:BX:84:LEU:HD13	2.39	0.48
55:CA:95:VAL:O	55:CA:124:ILE:HB	2.13	0.48
55:CA:273:ILE:HG13	55:CA:274:VAL:N	2.28	0.48
1:AA:30:G:OP1	18:AR:8:VAL:CG1	2.61	0.48
1:AA:48:G:H8	1:AA:48:G:O5'	1.97	0.48
1:AA:88:G:C5'	1:AA:89:G:OP2	2.57	0.48
1:AA:253:C:C2'	1:AA:254:G:O5'	2.62	0.48
1:AA:297:C:C5'	22:AV:83:THR:OG1	2.50	0.48
1:AA:318:C:C2	1:AA:334:C:N3	2.82	0.48
1:AA:454:A:H3'	1:AA:454:A:C8	2.49	0.48
1:AA:462:C:C6	1:AA:468:G:N2	2.82	0.48
1:AA:546:C:C2	1:AA:547:A:C6	3.01	0.48
1:AA:576:U:O5'	1:AA:576:U:H6	1.95	0.48
1:AA:643:A:HO2'	1:AA:644:A:P	2.36	0.48
1:AA:649:G:O2'	31:Ae:17:THR:HG21	2.14	0.48
1:AA:662:G:H5''	13:AM:19:VAL:CG1	2.40	0.48
1:AA:764:A:N3	4:AD:214:TRP:HD1	2.12	0.48
1:AA:793:A:OP2	1:AA:2072:G:H5'	2.13	0.48
1:AA:851:U:OP1	26:AZ:49:LYS:NZ	2.41	0.48
1:AA:858:U:H4'	1:AA:859:G:OP1	2.12	0.48
1:AA:1002:G:H2'	1:AA:1003:G:O5'	2.13	0.48
1:AA:1013:C:H2'	1:AA:1014:U:C6	2.49	0.48
1:AA:1064:C:N4	1:AA:1065:U:N3	2.61	0.48
1:AA:1067:A:C4'	10:AJ:21:PRO:CB	2.91	0.48
1:AA:1148:A:N6	1:AA:1149:G:O6	2.46	0.48
1:AA:1154:G:O2'	1:AA:1155:A:C5'	2.61	0.48
1:AA:1265:A:C1'	1:AA:1267:U:N3	2.77	0.48
1:AA:1326:U:O4	1:AA:1648:C:O2'	2.31	0.48
1:AA:1419:A:C5	1:AA:1421:G:C6	3.01	0.48
1:AA:1537:C:C2'	1:AA:1538:G:H5'	2.41	0.48
1:AA:1635:G:C8	1:AA:1635:G:O5'	2.67	0.48
1:AA:1741:C:H2'	1:AA:1742:C:C1'	2.44	0.48
1:AA:1819:A:H5''	4:AD:178:PRO:HB3	1.95	0.48
1:AA:1834:U:OP1	1:AA:1834:U:C4'	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1869:G:N3	1:AA:1878:G:O6	2.46	0.48
1:AA:1893:C:C2'	1:AA:1894:C:H5'	2.43	0.48
1:AA:1906:G:N1	1:AA:1929:G:C6	2.81	0.48
1:AA:1958:C:H2'	1:AA:1959:G:O5'	2.13	0.48
1:AA:2053:G:C2	1:AA:2054:A:C8	3.02	0.48
1:AA:2072:G:C6	1:AA:2073:C:C4	3.02	0.48
1:AA:2094:G:C5	1:AA:2095:C:C4	3.01	0.48
1:AA:2096:U:C2	1:AA:2097:C:C5	3.01	0.48
1:AA:2350:C:O2'	1:AA:2351:G:P	2.71	0.48
1:AA:2469:A:H2'	1:AA:2470:G:H5'	1.95	0.48
1:AA:2543:G:N2	1:AA:2765:A:N3	2.61	0.48
1:AA:2607:G:C6	1:AA:2608:G:C2	3.02	0.48
1:AA:2619:C:C5'	5:AE:152:LYS:CA	2.90	0.48
1:AA:2672:G:HO2'	1:AA:2673:G:H5'	1.78	0.48
1:AA:2791:C:C4	1:AA:2892:A:H3'	2.47	0.48
1:AA:2827:C:C2'	1:AA:2828:C:H5'	2.44	0.48
2:AB:73:A:N7	2:AB:104:A:C5	2.81	0.48
2:AB:78:A:H5'	23:AW:78:LYS:HE3	1.95	0.48
3:AC:23:ASP:O	3:AC:24:GLU:C	2.57	0.48
3:AC:132:GLY:C	3:AC:134:ARG:H	2.21	0.48
3:AC:194:ARG:HG3	3:AC:194:ARG:NH1	2.27	0.48
4:AD:34:VAL:O	4:AD:36:PRO:CD	2.62	0.48
4:AD:79:VAL:HG12	4:AD:81:ALA:CA	2.43	0.48
4:AD:183:ARG:NE	4:AD:268:ARG:HD2	2.29	0.48
4:AD:199:ALA:O	4:AD:202:LYS:CB	2.60	0.48
4:AD:273:ARG:HD3	4:AD:273:ARG:N	2.28	0.48
5:AE:37:ARG:CB	5:AE:40:GLU:HB2	2.43	0.48
5:AE:81:ILE:CG2	5:AE:82:ARG:H	2.25	0.48
5:AE:104:VAL:HG13	5:AE:197:ILE:C	2.33	0.48
5:AE:172:VAL:CA	5:AE:184:VAL:HG12	2.43	0.48
6:AF:7:TYR:N	6:AF:20:LEU:HD22	2.29	0.48
7:AG:38:VAL:C	7:AG:39:ILE:HD12	2.38	0.48
7:AG:53:LEU:HD21	7:AG:72:ARG:N	2.28	0.48
7:AG:75:LYS:HA	7:AG:84:LYS:HG3	1.95	0.48
7:AG:102:PHE:C	7:AG:104:GLU:N	2.68	0.48
8:AH:94:TYR:OH	8:AH:128:PRO:CG	2.62	0.48
8:AH:136:ILE:H	8:AH:141:VAL:HG21	1.78	0.48
10:AJ:52:ILE:CD1	10:AJ:73:PRO:HG2	2.33	0.48
11:AK:4:TYR:HB3	18:AR:64:ARG:NH2	2.28	0.48
11:AK:25:ARG:CA	11:AK:28:THR:HG23	2.42	0.48
11:AK:30:ILE:HG22	11:AK:34:LEU:HD11	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:67:LEU:O	11:AK:68:GLU:HG3	2.14	0.48
12:AL:27:GLY:O	12:AL:28:SER:C	2.57	0.48
12:AL:58:VAL:O	12:AL:86:ILE:HB	2.14	0.48
12:AL:77:ILE:HG23	17:AQ:65:LYS:HE2	1.93	0.48
12:AL:99:PHE:CA	12:AL:122:LEU:O	2.61	0.48
14:AN:44:ALA:C	14:AN:47:ILE:HB	2.31	0.48
14:AN:99:PRO:O	14:AN:100:GLY:O	2.32	0.48
15:AO:41:ALA:HB1	15:AO:97:VAL:CG1	2.35	0.48
16:AP:9:ARG:HD3	16:AP:9:ARG:HA	1.51	0.48
16:AP:12:PHE:CG	16:AP:13:ARG:N	2.80	0.48
16:AP:73:LEU:N	16:AP:73:LEU:CD1	2.74	0.48
16:AP:103:GLU:CD	16:AP:103:GLU:H	2.21	0.48
17:AQ:70:VAL:HB	17:AQ:74:ARG:CD	2.44	0.48
18:AR:5:LYS:O	18:AR:7:GLY:N	2.46	0.48
18:AR:99:ALA:HB2	18:AR:106:PHE:CD1	2.48	0.48
20:AT:8:ARG:HB3	20:AT:9:TYR:H	1.38	0.48
20:AT:24:ILE:HG21	20:AT:36:LEU:HB2	1.95	0.48
22:AV:32:PRO:HB2	22:AV:34:LYS:CD	2.43	0.48
26:AZ:38:GLU:O	26:AZ:40:THR:N	2.47	0.48
27:Aa:17:GLY:O	27:Aa:18:CYS:HB3	2.12	0.48
27:Aa:47:GLN:CA	27:Aa:52:THR:HG21	2.37	0.48
28:Ab:34:PRO:CG	28:Ab:40:LYS:HZ1	2.27	0.48
29:Ac:19:ARG:CD	29:Ac:19:ARG:N	2.75	0.48
31:Ae:5:LYS:HE3	31:Ae:10:ALA:HB3	1.96	0.48
31:Ae:8:LYS:NZ	31:Ae:11:LYS:NZ	2.61	0.48
32:Af:10:ILE:CD1	32:Af:34:GLN:NE2	2.74	0.48
34:BA:52:G:C2'	34:BA:53:A:O4'	2.59	0.48
34:BA:141:A:C4'	34:BA:182:U:H1'	2.44	0.48
34:BA:225:C:O2	34:BA:226:G:O4'	2.32	0.48
34:BA:333:G:C4'	53:BX:16:HIS:HD2	2.25	0.48
34:BA:428:G:O2'	34:BA:429:U:OP2	2.30	0.48
34:BA:432:A:C8	34:BA:432:A:C3'	2.97	0.48
34:BA:443:C:C2	34:BA:492:G:C2	3.02	0.48
34:BA:502:G:O2'	34:BA:503:C:H5'	2.13	0.48
34:BA:666:G:N1	34:BA:741:G:C4	2.82	0.48
34:BA:718:G:N7	34:BA:719:C:N4	2.62	0.48
34:BA:818:G:N2	34:BA:820:U:C2	2.82	0.48
34:BA:862:C:N3	34:BA:863:U:H5	2.12	0.48
34:BA:888:G:C2	34:BA:909:A:N6	2.80	0.48
34:BA:946:A:C2'	34:BA:947:G:H8	2.21	0.48
34:BA:1003:G:H2'	34:BA:1004:A:H4'	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1006:C:O2	34:BA:1006:C:C2'	2.61	0.48
34:BA:1014:A:C2'	52:BW:34:TRP:CZ3	2.96	0.48
34:BA:1054:C:OP2	34:BA:1197:G:OP2	2.30	0.48
34:BA:1085:U:O2	34:BA:1094:G:C6	2.66	0.48
34:BA:1188:A:C5'	43:BN:61:GLU:OE2	2.54	0.48
34:BA:1502:A:C6	34:BA:1504:G:C2	3.01	0.48
35:BF:81:VAL:HB	35:BF:94:ASN:OD1	2.14	0.48
35:BF:120:ALA:O	35:BF:121:LEU:C	2.56	0.48
36:BG:57:ILE:HG23	36:BG:66:VAL:HG22	1.96	0.48
36:BG:188:LEU:HD13	36:BG:189:ALA:N	2.28	0.48
38:BI:37:ARG:O	38:BI:38:GLN:HG3	2.13	0.48
39:BJ:76:ALA:HA	39:BJ:79:LEU:HD11	1.92	0.48
40:BK:57:GLU:HB3	40:BK:58:PRO:HD2	1.94	0.48
41:BL:40:ALA:O	41:BL:41:ARG:C	2.57	0.48
42:BM:10:ARG:HH21	42:BM:75:ASP:CG	2.22	0.48
43:BN:12:ASP:HB3	43:BN:15:THR:CG2	2.43	0.48
43:BN:79:ARG:O	43:BN:81:THR:N	2.47	0.48
44:BO:23:ALA:CB	44:BO:88:GLY:CA	2.91	0.48
44:BO:29:ILE:HG22	44:BO:44:SER:OG	2.13	0.48
44:BO:44:SER:H	44:BO:47:VAL:CB	2.25	0.48
44:BO:45:GLY:O	44:BO:50:TYR:CB	2.60	0.48
44:BO:99:GLN:HA	44:BO:105:VAL:CG2	2.44	0.48
46:BQ:5:ALA:CB	46:BQ:67:GLU:OE1	2.61	0.48
46:BQ:67:GLU:C	46:BQ:69:GLU:H	2.20	0.48
49:BT:74:LEU:HD22	49:BT:79:VAL:CG2	2.42	0.48
50:BU:40:LYS:NZ	50:BU:42:TYR:HE1	2.12	0.48
55:CA:63:ALA:HB1	55:CA:65:LYS:CD	2.43	0.48
55:CA:75:THR:HG21	55:CA:85:VAL:CB	2.29	0.48
55:CA:231:VAL:CG1	55:CA:232:LYS:N	2.74	0.48
55:CA:317:PRO:CG	55:CA:519:TYR:CD2	2.97	0.48
55:CA:488:LEU:HD21	55:CA:526:ILE:O	2.13	0.48
55:CA:495:LYS:C	55:CA:516:ALA:O	2.53	0.48
55:CA:507:ARG:C	55:CA:528:SER:OG	2.56	0.48
55:CA:576:GLU:CG	55:CA:589:LYS:HD2	2.44	0.48
1:AA:18:C:O5'	1:AA:18:C:C6	2.64	0.48
1:AA:35:G:O4'	1:AA:454:A:C1'	2.62	0.48
1:AA:61:G:C2	1:AA:62:C:C2	3.02	0.48
1:AA:64:A:N3	21:AU:66:LEU:CD2	2.71	0.48
1:AA:180:G:OP1	30:Ad:32:LYS:CD	2.62	0.48
1:AA:307:G:H21	1:AA:330:A:N6	2.12	0.48
1:AA:332:A:C8	1:AA:335:C:C4	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:354:G:O2'	1:AA:355:G:C5'	2.60	0.48
1:AA:462:C:C4	1:AA:468:G:N2	2.82	0.48
1:AA:500:G:O2'	1:AA:501:A:H3'	2.14	0.48
1:AA:637:A:C2	1:AA:651:G:O3'	2.67	0.48
1:AA:763:G:H2'	1:AA:764:A:C5'	2.44	0.48
1:AA:781:A:O2'	4:AD:222:ARG:NH1	2.46	0.48
1:AA:820:A:C2	1:AA:943:U:H2'	2.48	0.48
1:AA:858:U:C2'	1:AA:2268:A:C8	2.92	0.48
1:AA:942:G:C5'	13:AM:32:THR:CG2	2.91	0.48
1:AA:1001:A:N6	1:AA:1002:G:C2	2.82	0.48
1:AA:1165:U:O2'	1:AA:1166:C:O4'	2.32	0.48
1:AA:1234:U:H2'	1:AA:1235:G:O4'	2.14	0.48
1:AA:1267:U:C5	1:AA:1268:A:N7	2.82	0.48
1:AA:1299:G:H5'	1:AA:1301:A:C1'	2.39	0.48
1:AA:1316:U:H2'	1:AA:1317:A:H8	1.78	0.48
1:AA:1352:U:O2'	1:AA:1353:A:C5'	2.61	0.48
1:AA:1413:G:N2	1:AA:1590:U:H1'	2.29	0.48
1:AA:1437:C:O2'	1:AA:1516:U:O2'	2.01	0.48
1:AA:1530:G:H2'	1:AA:1531:C:C2	2.47	0.48
1:AA:1544:C:O2'	1:AA:1545:A:C4'	2.61	0.48
1:AA:1569:A:O2'	4:AD:39:LYS:NZ	2.38	0.48
1:AA:1582:C:N3	1:AA:1583:A:N7	2.62	0.48
1:AA:1667:G:O5'	12:AL:7:TYR:CD1	2.66	0.48
1:AA:1667:G:OP1	12:AL:7:TYR:CD1	2.66	0.48
1:AA:1746:G:H3'	1:AA:1746:G:P	2.54	0.48
1:AA:1786:A:C5'	1:AA:1938:A:H61	2.26	0.48
1:AA:1816:G:O3'	1:AA:1817:G:H8	1.96	0.48
1:AA:1826:G:N2	1:AA:1827:C:H1'	2.29	0.48
1:AA:2048:G:N2	1:AA:2049:G:C4	2.82	0.48
1:AA:2051:A:O2'	1:AA:2052:G:P	2.71	0.48
1:AA:2057:A:N7	1:AA:2058:A:N7	2.62	0.48
1:AA:2324:C:C2'	1:AA:2325:G:OP1	2.61	0.48
1:AA:2398:U:H2'	1:AA:2399:G:C8	2.45	0.48
1:AA:2450:A:OP1	1:AA:2497:A:C8	2.67	0.48
1:AA:2468:G:H4'	14:AN:120:ILE:CD1	2.40	0.48
1:AA:2484:G:H4'	14:AN:46:GLN:HA	1.96	0.48
1:AA:2533:A:C1'	1:AA:2664:G:C4'	2.84	0.48
1:AA:2564:A:N6	1:AA:2647:U:O4'	2.47	0.48
1:AA:2597:G:O2'	1:AA:2598:A:O5'	2.30	0.48
1:AA:2600:A:C2	1:AA:2601:C:C5	3.01	0.48
1:AA:2822:G:N7	15:AO:4:LEU:CD2	2.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:105:G:H4'	23:AW:32:HIS:ND1	2.29	0.48
3:AC:127:LEU:HB3	3:AC:131:LEU:HD11	1.96	0.48
3:AC:200:LYS:NZ	3:AC:204:ALA:CB	2.77	0.48
4:AD:9:TYR:O	4:AD:10:THR:CB	2.61	0.48
4:AD:21:PHE:O	4:AD:205:VAL:HG13	2.14	0.48
4:AD:60:ARG:CB	4:AD:62:TYR:CE2	2.96	0.48
4:AD:85:ASP:CB	4:AD:87:ASN:ND2	2.77	0.48
5:AE:32:PRO:HB3	5:AE:35:GLN:HE22	1.76	0.48
5:AE:47:VAL:C	5:AE:48:GLN:CD	2.82	0.48
5:AE:136:ARG:C	5:AE:136:ARG:CD	2.87	0.48
5:AE:186:GLY:C	5:AE:188:VAL:N	2.72	0.48
6:AF:46:ARG:NE	6:AF:46:ARG:C	2.72	0.48
6:AF:110:LEU:HD23	6:AF:186:ILE:CD1	2.41	0.48
7:AG:16:ARG:HD2	7:AG:20:ILE:CD1	2.44	0.48
8:AH:23:ARG:HH11	8:AH:35:VAL:C	2.22	0.48
8:AH:33:LEU:HD23	8:AH:34:GLU:C	2.38	0.48
8:AH:105:LEU:CG	8:AH:113:VAL:HG11	2.44	0.48
9:AI:54:ALA:O	9:AI:56:ASN:N	2.44	0.48
10:AJ:12:LEU:CB	10:AJ:13:PRO:CD	2.90	0.48
10:AJ:47:ASN:C	10:AJ:48:MET:CG	2.86	0.48
11:AK:42:TRP:O	11:AK:43:THR:CB	2.61	0.48
11:AK:78:TYR:O	11:AK:80:GLY:N	2.46	0.48
11:AK:126:PRO:HB2	11:AK:127:ASP:OD2	2.13	0.48
12:AL:32:TYR:O	12:AL:34:THR:OG1	2.30	0.48
14:AN:51:ARG:HD3	14:AN:52:VAL:CG2	2.43	0.48
14:AN:120:ILE:O	14:AN:124:LYS:HG2	2.14	0.48
14:AN:122:GLY:O	14:AN:124:LYS:N	2.46	0.48
15:AO:39:PRO:HA	15:AO:42:LYS:HB2	1.94	0.48
15:AO:74:LYS:N	15:AO:77:ARG:HH22	2.12	0.48
17:AQ:21:GLU:O	17:AQ:23:ARG:CD	2.53	0.48
17:AQ:33:LYS:CA	17:AQ:46:GLU:O	2.35	0.48
17:AQ:65:LYS:NZ	17:AQ:75:ILE:HD13	2.28	0.48
17:AQ:103:ARG:C	17:AQ:107:ASP:OD2	2.56	0.48
19:AS:6:LYS:CE	19:AS:10:LYS:HB3	2.44	0.48
19:AS:15:GLU:C	19:AS:100:ARG:CZ	2.87	0.48
19:AS:20:LEU:CD1	19:AS:68:LYS:HG3	2.44	0.48
19:AS:64:HIS:CG	19:AS:96:ILE:HG22	2.49	0.48
19:AS:68:LYS:CG	19:AS:95:LEU:HD11	2.41	0.48
22:AV:26:LYS:HD2	22:AV:27:VAL:HB	1.94	0.48
22:AV:47:LYS:CB	22:AV:49:VAL:HG22	2.36	0.48
22:AV:67:LEU:HD11	22:AV:71:LYS:HE2	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:138:GLU:C	23:AW:139:VAL:CG2	2.87	0.48
23:AW:169:GLU:O	23:AW:170:THR:HB	2.13	0.48
24:AX:72:ARG:HD2	24:AX:75:LEU:HD22	1.95	0.48
25:AY:36:ILE:C	25:AY:38:GLN:HG3	2.39	0.48
28:Ab:23:HIS:O	28:Ab:24:ALA:HB3	2.14	0.48
28:Ab:56:LYS:C	28:Ab:57:VAL:HG13	2.38	0.48
31:Ae:29:LYS:C	31:Ae:34:TRP:CZ2	2.91	0.48
32:Af:1:MET:H3	32:Af:33:LYS:HB3	1.79	0.48
34:BA:19:C:O2	34:BA:572:A:C2	2.62	0.48
34:BA:119:A:N6	34:BA:287:U:C2	2.78	0.48
34:BA:128:G:C5'	50:BU:2:PRO:HA	2.40	0.48
34:BA:251:G:C5'	34:BA:252:U:OP1	2.61	0.48
34:BA:293:G:C4	34:BA:294:U:C5	3.02	0.48
34:BA:298:A:N6	34:BA:299:G:C2	2.82	0.48
34:BA:372:C:N4	34:BA:389:A:N6	2.61	0.48
34:BA:430:A:P	37:BH:9:CYS:H	2.36	0.48
34:BA:511:C:O2'	34:BA:512:U:O5'	2.32	0.48
34:BA:547:A:H4'	34:BA:548:G:O5'	2.10	0.48
34:BA:687:A:C2	34:BA:704:A:C6	3.01	0.48
34:BA:909:A:C2	34:BA:910:C:C1'	2.97	0.48
34:BA:997:U:OP2	34:BA:997:U:C6	2.66	0.48
34:BA:1034:G:N3	34:BA:1035:A:N7	2.61	0.48
34:BA:1057:G:H2'	34:BA:1058:G:O5'	2.14	0.48
34:BA:1261:A:H5'	34:BA:1284:C:OP1	2.14	0.48
34:BA:1287:A:H2'	34:BA:1288:A:N7	2.28	0.48
34:BA:1306:A:C2	34:BA:1332:A:C8	3.00	0.48
34:BA:1323:G:H4'	34:BA:1362(A):C:N4	2.29	0.48
34:BA:1323:G:C6	34:BA:1324:A:N6	2.82	0.48
34:BA:1371:G:OP2	42:BM:11:LYS:HE3	2.13	0.48
34:BA:1387:G:C4	34:BA:1388:C:C5	3.02	0.48
34:BA:1485:U:O2'	34:BA:1486:G:H8	1.97	0.48
35:BF:59:GLU:CA	35:BF:221:LEU:HD21	2.43	0.48
35:BF:82:ARG:CD	35:BF:92:TYR:OH	2.54	0.48
35:BF:84:GLU:CD	35:BF:233:SER:HB3	2.38	0.48
35:BF:169:LYS:HE2	35:BF:170:GLU:HA	1.95	0.48
36:BG:179:ARG:HG2	36:BG:206:GLU:OE1	2.13	0.48
37:BH:54:TYR:CE2	37:BH:58:LEU:HB2	2.48	0.48
37:BH:63:LYS:CG	37:BH:64:LEU:N	2.77	0.48
37:BH:102:ASP:HB2	37:BH:136:PRO:CA	2.43	0.48
37:BH:177:ASP:C	37:BH:179:GLU:H	2.22	0.48
38:BI:96:PRO:O	38:BI:97:GLY:C	2.55	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:75:VAL:HG22	40:BK:88:PRO:HA	1.95	0.48
41:BL:37:ARG:O	41:BL:38:ILE:C	2.57	0.48
43:BN:24:VAL:HG13	43:BN:34:VAL:CG1	2.44	0.48
44:BO:120:ARG:HE	44:BO:126:ARG:HH21	1.60	0.48
50:BU:27:PHE:C	50:BU:35:VAL:HG13	2.38	0.48
52:BW:5:LEU:HD23	52:BW:41:VAL:HG12	1.94	0.48
52:BW:9:VAL:CG1	52:BW:41:VAL:CA	2.78	0.48
54:BY:23:PRO:C	54:BY:25:LYS:N	2.69	0.48
55:CA:80:ASP:N	55:CA:81:PHE:HA	2.27	0.48
55:CA:81:PHE:HB2	55:CA:344:ALA:CB	2.42	0.48
55:CA:102:PHE:CD2	55:CA:135:ALA:HB2	2.49	0.48
55:CA:251:VAL:O	55:CA:261:GLU:HA	2.13	0.48
55:CA:253:LYS:HG3	55:CA:271:GLY:HA2	1.95	0.48
55:CA:407:VAL:HG23	55:CA:436:ARG:HA	1.95	0.48
55:CA:476:ARG:HD3	55:CA:477:PRO:N	2.28	0.48
1:AA:128:C:N4	1:AA:129:C:H41	2.12	0.48
1:AA:197:A:H62	1:AA:248:G:N2	2.00	0.48
1:AA:393:C:O2'	1:AA:394:A:H5'	2.14	0.48
1:AA:411:G:N3	1:AA:2408:U:C4	2.82	0.48
1:AA:466:A:N1	1:AA:795:C:O2'	2.46	0.48
1:AA:500:G:H2'	1:AA:501:A:C3'	2.43	0.48
1:AA:572:A:N6	1:AA:2029:G:H1'	2.27	0.48
1:AA:597:U:C2	1:AA:598:G:N7	2.82	0.48
1:AA:625:G:C6	13:AM:100:LEU:HB3	2.49	0.48
1:AA:665:C:O2'	1:AA:666:G:O5'	2.19	0.48
1:AA:729:G:OP1	4:AD:19:ALA:HB1	2.14	0.48
1:AA:776:G:N3	1:AA:793:A:C6	2.81	0.48
1:AA:936:C:O2'	1:AA:937:U:O5'	2.32	0.48
1:AA:1139:G:C2'	1:AA:1140:C:H5''	2.39	0.48
1:AA:1225:C:C4	1:AA:1226:G:N1	2.82	0.48
1:AA:1250:G:O2'	1:AA:1251:C:OP2	2.30	0.48
1:AA:1251:C:C5'	18:AR:10:ARG:HE	2.26	0.48
1:AA:1267:U:C6	1:AA:1267:U:C3'	2.97	0.48
1:AA:1281:G:C4	1:AA:1282:U:C5	3.01	0.48
1:AA:1343:G:H1'	1:AA:1597:A:N1	2.28	0.48
1:AA:1513:C:H5''	1:AA:1513:C:H6	1.79	0.48
1:AA:1578:U:O2'	1:AA:1579:A:H5'	2.13	0.48
1:AA:1678:G:H8	1:AA:1678:G:O5'	1.97	0.48
1:AA:1684:C:O2	1:AA:1685:C:C6	2.67	0.48
1:AA:1703:G:C2'	1:AA:1704:G:H5'	2.44	0.48
1:AA:1709:U:H5'	1:AA:1709:U:C6	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1725:G:N1	1:AA:1726:G:C8	2.82	0.48
1:AA:2057:A:C2'	1:AA:2058:A:H8	2.23	0.48
1:AA:2103:C:C2	1:AA:2104:G:C8	3.01	0.48
1:AA:2142:C:C2	1:AA:2143:C:C5	3.02	0.48
1:AA:2168:G:C2'	1:AA:2170:A:OP2	2.61	0.48
1:AA:2306:C:N3	7:AG:42:GLY:O	2.46	0.48
1:AA:2347:C:H5	1:AA:2382:G:H1'	1.77	0.48
1:AA:2353:G:O2'	24:AX:33:ALA:O	2.32	0.48
1:AA:2371:G:O2'	1:AA:2372:G:O4'	2.31	0.48
1:AA:2385:C:C4	1:AA:2386:C:C5	3.01	0.48
1:AA:2394:C:H5'	31:Ae:12:LYS:HZ1	1.77	0.48
1:AA:2406:U:O2'	13:AM:67:MET:CG	2.62	0.48
1:AA:2520:C:C2	1:AA:2521:C:C5	3.01	0.48
1:AA:2857:G:N1	1:AA:2861:G:C6	2.82	0.48
2:AB:31:C:N4	2:AB:32:C:H41	2.12	0.48
2:AB:42:C:H2'	2:AB:43:C:C6	2.48	0.48
2:AB:48:A:OP1	16:AP:92:TYR:CD2	2.66	0.48
2:AB:65:C:C5	2:AB:108:C:C5	3.01	0.48
3:AC:32:LEU:HD13	3:AC:220:PRO:HB2	1.95	0.48
3:AC:117:PRO:HD3	3:AC:146:GLY:O	2.13	0.48
4:AD:92:ILE:CD1	4:AD:104:TYR:CD1	2.96	0.48
4:AD:176:ARG:HH12	4:AD:270:ILE:HD12	1.78	0.48
5:AE:60:ASN:O	5:AE:63:LEU:N	2.46	0.48
5:AE:120:TRP:CG	5:AE:121:ASN:N	2.77	0.48
6:AF:34:TRP:HB3	6:AF:38:ARG:NE	2.27	0.48
6:AF:37:VAL:O	6:AF:184:TYR:CZ	2.66	0.48
6:AF:39:TRP:HB2	6:AF:101:LEU:HG	1.95	0.48
6:AF:104:LYS:O	6:AF:108:LYS:CE	2.57	0.48
6:AF:163:VAL:HG21	6:AF:195:ASP:OD2	2.14	0.48
10:AJ:14:ALA:O	10:AJ:49:GLY:C	2.52	0.48
10:AJ:21:PRO:CD	10:AJ:22:PRO:CD	2.86	0.48
11:AK:12:ARG:CD	11:AK:50:ASP:OD1	2.62	0.48
11:AK:71:ILE:HB	11:AK:90:MET:HE2	1.95	0.48
12:AL:64:ARG:CZ	12:AL:67:LYS:N	2.76	0.48
12:AL:68:GLU:HA	12:AL:104:ARG:HH12	1.73	0.48
12:AL:98:VAL:O	12:AL:99:PHE:HB2	2.14	0.48
12:AL:101:PRO:CB	34:BA:346:G:C5'	2.90	0.48
13:AM:16:ARG:CG	13:AM:19:VAL:CG2	2.92	0.48
14:AN:42:ILE:C	14:AN:94:VAL:CG2	2.87	0.48
14:AN:66:ILE:HG22	14:AN:67:ARG:O	2.14	0.48
14:AN:130:LYS:CE	14:AN:131:ILE:N	2.74	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:18:LEU:HB3	15:AO:22:ARG:NH2	2.22	0.48
15:AO:87:TYR:HD2	15:AO:94:TYR:CG	2.32	0.48
15:AO:96:ARG:NE	15:AO:117:VAL:HG23	2.28	0.48
16:AP:73:LEU:HA	16:AP:76:LYS:CD	2.42	0.48
17:AQ:50:ILE:CG2	17:AQ:68:TYR:HB2	2.44	0.48
18:AR:61:TRP:H	18:AR:61:TRP:CD1	2.31	0.48
18:AR:72:HIS:CD2	18:AR:110:VAL:HG21	2.49	0.48
20:AT:25:ARG:CA	20:AT:71:VAL:HG11	2.42	0.48
20:AT:36:LEU:HD21	20:AT:48:ALA:N	2.28	0.48
22:AV:9:LYS:HD2	22:AV:110:GLU:HG3	1.96	0.48
22:AV:98:VAL:C	22:AV:99:CYS:SG	2.96	0.48
23:AW:45:ASP:HA	23:AW:48:PHE:HD2	1.79	0.48
24:AX:21:LEU:HD13	24:AX:41:ARG:CG	2.39	0.48
25:AY:20:VAL:CG2	25:AY:52:ILE:HG23	2.30	0.48
25:AY:65:GLN:CA	25:AY:65:GLN:NE2	2.77	0.48
26:AZ:16:PRO:O	26:AZ:19:GLN:N	2.47	0.48
26:AZ:41:PRO:CA	26:AZ:44:ARG:HH21	2.17	0.48
27:Aa:6:HIS:NE2	27:Aa:55:ARG:CD	2.62	0.48
28:Ab:35:GLU:HB3	28:Ab:49:CYS:HB2	1.96	0.48
28:Ab:45:VAL:HB	28:Ab:50:GLY:C	2.38	0.48
29:Ac:27:LYS:HE3	29:Ac:29:ASN:HD21	1.77	0.48
30:Ad:21:ARG:HG2	30:Ad:31:LEU:CG	2.44	0.48
31:Ae:49:VAL:O	31:Ae:53:PRO:HD3	2.14	0.48
34:BA:30:U:O2'	34:BA:31:G:P	2.71	0.48
34:BA:35:G:N3	45:BP:118:SER:OG	2.37	0.48
34:BA:62:U:C2	34:BA:63:C:C5	3.02	0.48
34:BA:123:C:O2'	34:BA:290:C:H1'	2.13	0.48
34:BA:176:C:O2'	34:BA:177:C:H5'	2.12	0.48
34:BA:228:A:O2'	34:BA:229:U:H5'	2.12	0.48
34:BA:242:C:C2	34:BA:285:G:N2	2.81	0.48
34:BA:294:U:H2'	34:BA:295:C:C6	2.48	0.48
34:BA:409:G:C4	34:BA:410:G:C8	3.02	0.48
34:BA:579:G:C4	34:BA:580:U:C5	3.01	0.48
34:BA:742:G:C2	34:BA:743:U:H1'	2.49	0.48
34:BA:769:G:O2'	34:BA:770:C:H5'	2.14	0.48
34:BA:870:U:C5'	34:BA:871:U:OP1	2.61	0.48
34:BA:872:A:C4	34:BA:874:G:N7	2.82	0.48
34:BA:949:A:H4'	34:BA:1364:U:O4	2.13	0.48
34:BA:996:A:C2	34:BA:997:U:C4	3.02	0.48
34:BA:1104:G:H2'	34:BA:1105:A:O4'	2.13	0.48
34:BA:1115:C:N1	34:BA:1186:G:N1	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1129:C:C5'	34:BA:1130:A:OP1	2.51	0.48
34:BA:1148:U:O2	34:BA:1149:C:O4'	2.31	0.48
34:BA:1191:A:O5'	36:BG:4:LYS:NZ	2.46	0.48
34:BA:1288:A:H1'	34:BA:1352:C:O2'	2.14	0.48
34:BA:1314:C:C4	34:BA:1324:A:N1	2.82	0.48
34:BA:1325:C:C2	34:BA:1326:C:C5	3.01	0.48
34:BA:1327:C:H5''	54:BY:20:LYS:NZ	2.28	0.48
34:BA:1414:U:O4	34:BA:1487:G:C6	2.63	0.48
36:BG:5:ILE:CG2	43:BN:51:ARG:HH22	2.27	0.48
36:BG:16:ARG:O	36:BG:17:ASP:OD1	2.31	0.48
36:BG:74:GLY:C	36:BG:76:VAL:N	2.71	0.48
36:BG:116:VAL:HG13	36:BG:119:ARG:HD3	1.96	0.48
37:BH:54:TYR:O	37:BH:56:VAL:N	2.46	0.48
37:BH:59:ARG:HB3	37:BH:63:LYS:NZ	2.29	0.48
37:BH:179:GLU:C	37:BH:181:MET:N	2.72	0.48
37:BH:188:LEU:O	37:BH:189:PRO:C	2.53	0.48
38:BI:109:ILE:CD1	38:BI:135:THR:HB	2.34	0.48
39:BJ:41:GLU:N	39:BJ:63:TYR:HD1	2.11	0.48
39:BJ:94:GLN:C	39:BJ:95:GLU:CG	2.87	0.48
40:BK:43:PHE:CD2	40:BK:44:TYR:CE2	2.99	0.48
40:BK:45:ASP:HB2	40:BK:117:ALA:CB	2.44	0.48
40:BK:71:PRO:CA	40:BK:138:LYS:HE3	2.43	0.48
42:BM:38:GLN:O	42:BM:39:GLY:C	2.57	0.48
43:BN:6:ILE:CG1	43:BN:73:ASP:H	2.26	0.48
43:BN:24:VAL:HG13	43:BN:34:VAL:HG11	1.95	0.48
43:BN:46:ARG:NH1	47:BR:59:ALA:CB	2.77	0.48
44:BO:91:ARG:CD	44:BO:95:ILE:HD11	2.44	0.48
44:BO:110:ASP:OD2	51:BV:88:LYS:HD2	2.13	0.48
45:BP:9:GLN:O	45:BP:10:LEU:C	2.57	0.48
46:BQ:15:VAL:C	46:BQ:34:LEU:CD2	2.85	0.48
46:BQ:70:LEU:HD12	46:BQ:74:VAL:HG23	1.95	0.48
46:BQ:74:VAL:HA	46:BQ:77:ASN:OD1	2.12	0.48
47:BR:9:LYS:HD3	47:BR:9:LYS:C	2.39	0.48
47:BR:61:TRP:C	47:BR:61:TRP:CD1	2.92	0.48
52:BW:81:ARG:HB2	52:BW:81:ARG:HH11	1.78	0.48
53:BX:54:LYS:N	53:BX:100:ILE:HD11	2.28	0.48
55:CA:28:GLN:NE2	55:CA:183:MET:HG3	2.29	0.48
55:CA:180:ALA:CB	55:CA:181:GLU:CA	2.91	0.48
55:CA:405:LEU:HD11	55:CA:464:LEU:CG	2.40	0.48
55:CA:485:ASN:ND2	55:CA:526:ILE:CG2	2.71	0.48
1:AA:29:U:C2	1:AA:30:G:O6	2.67	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:218:A:N1	1:AA:235:U:H4'	2.29	0.48
1:AA:265:A:H2'	1:AA:266:G:C1'	2.44	0.48
1:AA:270(W):G:N7	1:AA:270(X):G:N7	2.61	0.48
1:AA:279:C:H2'	1:AA:280:C:C5	2.48	0.48
1:AA:467:G:O2'	1:AA:468:G:H5'	2.14	0.48
1:AA:531:C:O4'	1:AA:2035:G:N2	2.43	0.48
1:AA:543:C:H2'	1:AA:544:C:C6	2.49	0.48
1:AA:606:U:OP2	1:AA:606:U:C5	2.67	0.48
1:AA:684:G:N1	1:AA:775:G:C5	2.81	0.48
1:AA:749:C:H4'	1:AA:1271:G:N3	2.28	0.48
1:AA:774:A:HO2'	1:AA:775:G:P	2.35	0.48
1:AA:954:G:O2'	1:AA:955:C:H5'	2.14	0.48
1:AA:977:G:C6	1:AA:987:G:C5	3.02	0.48
1:AA:988:A:H2	1:AA:989:G:N2	2.12	0.48
1:AA:1005:C:C5	1:AA:1143:A:P	3.07	0.48
1:AA:1123:C:C2	1:AA:1124:C:C5	3.01	0.48
1:AA:1142(A):A:C2	1:AA:1143:A:O4'	2.66	0.48
1:AA:1161:C:O2'	1:AA:1162:G:H5'	2.13	0.48
1:AA:1221:C:C2	1:AA:1229:G:C2	3.02	0.48
1:AA:1250:G:O3'	1:AA:1251:C:C4'	2.61	0.48
1:AA:1255:U:O2	6:AF:72:ARG:HB3	2.14	0.48
1:AA:1258:C:C2	1:AA:1259:G:C8	3.02	0.48
1:AA:1284:A:C6	1:AA:1285:G:N1	2.82	0.48
1:AA:1324:G:O3'	1:AA:1325:G:H4'	2.14	0.48
1:AA:1348:G:N1	1:AA:1599:C:N3	2.62	0.48
1:AA:1348:G:C2'	1:AA:1349:A:O5'	2.62	0.48
1:AA:1355:G:H22	1:AA:1377:G:C1'	2.26	0.48
1:AA:1372:U:C6	1:AA:1372:U:C3'	2.97	0.48
1:AA:1448:G:C2'	1:AA:1449:A:H8	2.27	0.48
1:AA:1464:C:O2'	1:AA:1465:G:H5'	2.14	0.48
1:AA:1539:G:N7	1:AA:1540:G:C8	2.81	0.48
1:AA:1558:A:H1'	1:AA:1559:G:O6	2.13	0.48
1:AA:1621:U:H3'	1:AA:1621:U:H6	1.79	0.48
1:AA:1651:G:H5''	1:AA:1652:A:OP1	2.13	0.48
1:AA:1676:A:O2'	1:AA:1677:A:H5'	2.13	0.48
1:AA:1693:U:O4	1:AA:1977:A:C5	2.67	0.48
1:AA:1797:C:N3	1:AA:1798:U:O4	2.47	0.48
1:AA:1801:G:C6	1:AA:2207:C:O4'	2.67	0.48
1:AA:1819:A:C5	4:AD:179:SER:HB3	2.49	0.48
1:AA:1857:G:H2'	1:AA:1858:G:C8	2.49	0.48
1:AA:1906:G:H1'	1:AA:1929:G:N7	2.26	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2040:C:H4'	11:AK:72:TYR:HE1	1.78	0.48
1:AA:2160:G:C2	1:AA:2161:C:C2	3.01	0.48
1:AA:2255:G:C4	1:AA:2256:G:C8	3.01	0.48
1:AA:2346:A:OP2	1:AA:2381:C:O2'	2.32	0.48
1:AA:2399:G:C2	29:Ac:21:TYR:OH	2.63	0.48
1:AA:2416:C:N3	1:AA:2417:C:C5	2.82	0.48
1:AA:2449:U:O4'	1:AA:2449:U:P	2.72	0.48
1:AA:2551:C:H2'	1:AA:2552:U:O4'	2.14	0.48
1:AA:2597:G:C6	1:AA:2598:A:C6	3.02	0.48
1:AA:2617:C:C6	1:AA:2617:C:OP2	2.67	0.48
1:AA:2626:C:C2'	1:AA:2627:G:O4'	2.61	0.48
1:AA:2668:G:N2	1:AA:2669:G:C6	2.82	0.48
1:AA:2671:A:C2'	1:AA:2672:G:C8	2.86	0.48
1:AA:2733:A:H2'	1:AA:2734:A:C4'	2.43	0.48
1:AA:2828:C:C2	1:AA:2829:C:H5	2.28	0.48
2:AB:103:U:H6	2:AB:103:U:H5''	1.79	0.48
3:AC:52:ARG:HG3	3:AC:53:ARG:CG	2.42	0.48
3:AC:74:VAL:CG1	3:AC:114:VAL:HG22	2.44	0.48
4:AD:79:VAL:HG12	4:AD:81:ALA:N	2.28	0.48
4:AD:80:ALA:O	4:AD:81:ALA:CB	2.62	0.48
4:AD:85:ASP:CG	4:AD:87:ASN:ND2	2.72	0.48
4:AD:160:GLY:C	4:AD:196:VAL:CG2	2.87	0.48
4:AD:174:ILE:HD12	4:AD:174:ILE:H	1.79	0.48
4:AD:224:ALA:O	4:AD:226:MET:N	2.47	0.48
5:AE:8:LYS:NZ	17:AQ:3:ARG:CG	2.77	0.48
5:AE:61:ARG:CB	5:AE:62:PRO:HD3	2.44	0.48
5:AE:93:VAL:O	5:AE:94:GLU:HG2	2.13	0.48
6:AF:188:ARG:HH11	6:AF:188:ARG:CG	2.23	0.48
7:AG:57:ALA:CA	7:AG:67:LYS:C	2.85	0.48
8:AH:9:ILE:HD13	8:AH:73:ALA:HB1	1.95	0.48
8:AH:69:ARG:HB2	8:AH:69:ARG:NH1	2.27	0.48
11:AK:42:TRP:HE1	18:AR:64:ARG:CG	2.27	0.48
11:AK:69:GLN:NE2	11:AK:69:GLN:N	2.61	0.48
11:AK:139:GLU:C	11:AK:140:VAL:HG23	2.38	0.48
12:AL:8:LEU:HD13	12:AL:82:ASN:HA	1.95	0.48
12:AL:64:ARG:NH1	12:AL:78:ARG:HH11	2.12	0.48
14:AN:54:MET:HB3	14:AN:58:PHE:CE2	2.47	0.48
14:AN:91:GLU:CD	14:AN:91:GLU:N	2.72	0.48
16:AP:58:LEU:HD23	16:AP:62:LYS:HG3	1.95	0.48
16:AP:92:TYR:CE1	16:AP:93:LYS:HB3	2.49	0.48
16:AP:107:GLU:O	16:AP:108:GLY:C	2.56	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:54:ARG:CD	17:AQ:55:ASN:ND2	2.73	0.48
17:AQ:107:ASP:HB2	17:AQ:108:ARG:HH11	1.79	0.48
18:AR:66:ASN:O	18:AR:67:ALA:C	2.56	0.48
18:AR:105:VAL:HG13	18:AR:106:PHE:N	2.27	0.48
20:AT:5:ALA:O	20:AT:105:VAL:CG1	2.61	0.48
20:AT:82:LEU:H	20:AT:98:LYS:HZ3	1.59	0.48
21:AU:60:ARG:CD	21:AU:62:LYS:NZ	2.72	0.48
22:AV:32:PRO:CB	22:AV:34:LYS:HE3	2.44	0.48
23:AW:15:PRO:O	23:AW:19:ARG:HD2	2.14	0.48
23:AW:20:ARG:HB2	23:AW:20:ARG:NH1	2.28	0.48
23:AW:23:LYS:HG3	23:AW:39:VAL:C	2.39	0.48
23:AW:110:GLY:HA2	23:AW:144:LEU:CB	2.44	0.48
23:AW:153:SER:H	23:AW:168:GLU:HB2	1.79	0.48
24:AX:46:LYS:CG	24:AX:78:TYR:CD2	2.96	0.48
25:AY:32:PHE:HB2	25:AY:33:GLN:NE2	2.28	0.48
30:Ad:5:TRP:HA	30:Ad:5:TRP:HE3	1.77	0.48
31:Ae:22:VAL:HB	31:Ae:48:PHE:CZ	2.49	0.48
32:Af:7:VAL:O	32:Af:7:VAL:HG12	2.13	0.48
34:BA:22:G:C4'	34:BA:885:G:O4'	2.62	0.48
34:BA:52:G:C4	34:BA:53:A:C8	3.02	0.48
34:BA:262:A:C2	34:BA:263:A:C6	3.01	0.48
34:BA:294:U:H2'	34:BA:295:C:C5	2.49	0.48
34:BA:432:A:C8	34:BA:433:C:C5	3.02	0.48
34:BA:474:G:H8	34:BA:474:G:OP2	1.97	0.48
34:BA:521:G:C6	34:BA:529:G:N2	2.81	0.48
34:BA:526:C:N4	34:BA:535:A:H2	2.07	0.48
34:BA:543:C:C2	34:BA:544:G:N7	2.81	0.48
34:BA:552:U:C2	34:BA:553:A:C8	3.02	0.48
34:BA:559:A:C3'	34:BA:560:U:H5'	2.43	0.48
34:BA:584:G:C2'	34:BA:585:G:O5'	2.62	0.48
34:BA:824:C:C1'	41:BL:1:MET:N	2.77	0.48
34:BA:937:A:H1'	34:BA:1379:G:H22	1.77	0.48
34:BA:982:U:H1'	34:BA:983:A:H62	1.78	0.48
34:BA:1149:C:OP1	42:BM:9:ARG:NH2	2.47	0.48
34:BA:1226:C:P	52:BW:80:TYR:HB3	2.54	0.48
34:BA:1336:C:H4'	34:BA:1337:G:N1	2.28	0.48
34:BA:1372:U:H2'	34:BA:1373:G:O4'	2.13	0.48
34:BA:1483:A:H2'	34:BA:1484:C:O4'	2.13	0.48
35:BF:114:ARG:HD3	35:BF:114:ARG:C	2.39	0.48
35:BF:114:ARG:NH1	35:BF:141:GLU:HG3	2.29	0.48
35:BF:115:LEU:CB	35:BF:145:LEU:HG	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:181:PHE:CE1	41:BL:70:GLN:NE2	2.82	0.48
36:BG:8:ILE:HG13	36:BG:16:ARG:HD2	1.95	0.48
36:BG:59:ARG:CZ	36:BG:64:VAL:HA	2.42	0.48
37:BH:98:GLU:CA	37:BH:103:ASN:ND2	2.68	0.48
37:BH:106:TYR:CE2	37:BH:113:SER:HA	2.48	0.48
37:BH:200:GLU:HG3	37:BH:201:GLN:NE2	2.29	0.48
38:BI:71:LEU:HD23	38:BI:72:GLN:N	2.28	0.48
38:BI:77:PRO:HG2	38:BI:78:HIS:H	1.79	0.48
38:BI:82:VAL:HG11	38:BI:134:ALA:C	2.39	0.48
40:BK:15:ASP:OD1	40:BK:18:TYR:N	2.47	0.48
41:BL:3:THR:HB	41:BL:4:ASP:OD1	2.14	0.48
41:BL:49:GLU:OE2	41:BL:51:VAL:HG23	2.14	0.48
41:BL:62:TYR:C	41:BL:63:LEU:O	2.56	0.48
42:BM:17:VAL:CG2	42:BM:77:ILE:HG23	2.44	0.48
42:BM:37:PHE:O	42:BM:40:LEU:HB2	2.12	0.48
43:BN:31:GLY:CA	43:BN:81:THR:OG1	2.62	0.48
43:BN:49:VAL:O	43:BN:60:ARG:CB	2.62	0.48
45:BP:12:ARG:HB3	45:BP:12:ARG:HH11	1.73	0.48
45:BP:24:VAL:HG12	45:BP:24:VAL:O	2.12	0.48
46:BQ:73:GLU:O	46:BQ:77:ASN:HB3	2.14	0.48
48:BS:8:LYS:HE2	48:BS:9:GLN:HE22	1.77	0.48
49:BT:74:LEU:CD2	49:BT:79:VAL:HG21	2.43	0.48
51:BV:25:THR:HG22	51:BV:42:ARG:CZ	2.43	0.48
51:BV:87:ARG:HG2	51:BV:87:ARG:HH11	1.79	0.48
52:BW:30:LEU:CD1	52:BW:59:PRO:HB3	2.43	0.48
55:CA:309:MET:HE1	55:CA:370:ILE:HD11	1.94	0.48
55:CA:317:PRO:HD3	55:CA:519:TYR:CE2	2.49	0.48
55:CA:320:GLY:H	55:CA:321:LYS:HB2	1.79	0.48
55:CA:394:GLY:O	55:CA:395:ARG:HB3	2.13	0.48
1:AA:128:C:C4	1:AA:129:C:N4	2.81	0.48
1:AA:137(A):G:C6	1:AA:138:G:O6	2.66	0.48
1:AA:181:A:H5'	1:AA:181:A:H8	1.77	0.48
1:AA:184:C:N3	1:AA:213:A:N6	2.61	0.48
1:AA:271:G:C5	1:AA:404:C:N4	2.82	0.48
1:AA:282:A:C6	1:AA:283:A:H4'	2.49	0.48
1:AA:312:G:N3	1:AA:312:G:C2'	2.73	0.48
1:AA:371:A:C2	1:AA:372:G:C6	3.02	0.48
1:AA:383:U:C2	1:AA:385:C:C4	3.02	0.48
1:AA:443:A:OP1	6:AF:46:ARG:O	2.32	0.48
1:AA:514:A:C2'	1:AA:515:A:H5'	2.44	0.48
1:AA:519:U:H5''	20:AT:75:TYR:HB2	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:569:U:OP1	1:AA:945:A:N1	2.47	0.48
1:AA:671:C:N4	1:AA:672:C:H41	2.11	0.48
1:AA:697:C:C3'	1:AA:698:C:H5''	2.43	0.48
1:AA:988:A:C2	1:AA:989:G:C2	3.02	0.48
1:AA:1084:A:C5	1:AA:1085:A:C2	3.02	0.48
1:AA:1210:A:H4'	1:AA:1211:U:O5'	2.14	0.48
1:AA:1223:C:C2	1:AA:1225:C:H5''	2.49	0.48
1:AA:1277:G:HO2'	15:AO:24:GLN:HG2	1.78	0.48
1:AA:1299:G:N3	1:AA:1640:C:H5	2.12	0.48
1:AA:1392:A:N6	1:AA:1393:A:N6	2.62	0.48
1:AA:1467:C:C4'	1:AA:1467:C:OP1	2.62	0.48
1:AA:1540:G:C4'	1:AA:1540:G:OP1	2.62	0.48
1:AA:1624:G:N3	1:AA:1625:C:N4	2.60	0.48
1:AA:1637:A:O2'	1:AA:2711:A:C1'	2.54	0.48
1:AA:1688:U:N3	1:AA:1700:A:C5'	2.77	0.48
1:AA:1731:G:N3	1:AA:1731:G:H2'	2.29	0.48
1:AA:1780:A:H3'	1:AA:1781:C:C5'	2.25	0.48
1:AA:1782:C:O5'	1:AA:1783:A:OP2	2.32	0.48
1:AA:1829:A:C6	1:AA:1830:C:H1'	2.49	0.48
1:AA:1847:A:N1	1:AA:1851:U:O4	2.47	0.48
1:AA:1891:G:H3'	1:AA:1892:C:H6	1.79	0.48
1:AA:1936:A:H1'	1:AA:1940:U:C2	2.49	0.48
1:AA:1936:A:C8	1:AA:1945:G:O6	2.66	0.48
1:AA:1954:G:C2'	1:AA:1956:U:O4	2.62	0.48
1:AA:1968:G:H2'	1:AA:1969:A:OP2	2.14	0.48
1:AA:2285:C:H1'	1:AA:2288:A:C5	2.49	0.48
1:AA:2341:G:H2'	1:AA:2342:C:H6	1.72	0.48
1:AA:2346:A:H2	1:AA:2383:G:C2	2.32	0.48
1:AA:2371:G:O2'	1:AA:2372:G:C1'	2.62	0.48
1:AA:2385:C:O2'	1:AA:2386:C:O5'	2.28	0.48
1:AA:2456:C:C2'	1:AA:2457:U:H5'	2.44	0.48
1:AA:2471:C:H2'	1:AA:2472:G:C5'	2.44	0.48
1:AA:2482:G:C5	1:AA:2483:C:C5	3.02	0.48
1:AA:2528:U:O2	1:AA:2536:G:N2	2.47	0.48
1:AA:2587:A:C3'	1:AA:2588:G:H5'	2.42	0.48
1:AA:2681:C:C5	1:AA:2727:G:C2	2.99	0.48
1:AA:2690:C:O2'	1:AA:2691:C:O5'	2.30	0.48
1:AA:2723:C:HO2'	15:AO:2:ARG:CA	2.27	0.48
1:AA:2734:A:H3'	1:AA:2735:G:O4'	2.13	0.48
1:AA:2773:C:OP1	5:AE:164:ARG:NH1	2.46	0.48
1:AA:2793:G:C6	1:AA:2794:C:C5	3.02	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2838:G:C5	1:AA:2839:G:C8	3.02	0.48
1:AA:2854:G:C2	1:AA:2864:G:C5	3.02	0.48
1:AA:2872:G:C2	1:AA:2873:A:N6	2.82	0.48
2:AB:32:C:O2	2:AB:32:C:C2'	2.60	0.48
3:AC:47:LEU:HA	3:AC:208:PHE:O	2.14	0.48
4:AD:16:MET:O	4:AD:17:THR:C	2.57	0.48
4:AD:33:LEU:CD1	4:AD:61:LEU:HD11	2.44	0.48
4:AD:84:TYR:HA	4:AD:92:ILE:HG23	1.96	0.48
4:AD:105:ILE:CG1	4:AD:106:ILE:HG12	2.22	0.48
4:AD:119:ALA:CB	4:AD:130:ALA:O	2.57	0.48
4:AD:149:PRO:HD3	4:AD:186:HIS:CE1	2.49	0.48
4:AD:226:MET:HB3	4:AD:227:ASN:H	1.36	0.48
4:AD:251:GLY:HA2	4:AD:255:LYS:HZ2	1.77	0.48
5:AE:7:VAL:O	5:AE:193:GLY:N	2.47	0.48
5:AE:8:LYS:HD2	5:AE:9:VAL:HG22	1.91	0.48
5:AE:55:ASN:O	5:AE:56:PRO:C	2.56	0.48
5:AE:91:VAL:O	5:AE:92:THR:CB	2.61	0.48
5:AE:182:LEU:HD23	5:AE:182:LEU:C	2.38	0.48
6:AF:135:LYS:HD3	6:AF:136:THR:N	2.29	0.48
6:AF:169:ASN:ND2	6:AF:171:PRO:O	2.47	0.48
7:AG:4:ASP:HB3	7:AG:104:GLU:CG	2.43	0.48
8:AH:97:ARG:HB3	8:AH:97:ARG:CZ	2.44	0.48
10:AJ:10:LEU:N	10:AJ:56:GLU:HG2	2.28	0.48
11:AK:38:HIS:O	11:AK:42:TRP:CZ3	2.67	0.48
12:AL:77:ILE:HG21	17:AQ:65:LYS:CE	2.29	0.48
16:AP:103:GLU:CA	16:AP:106:ARG:HB3	2.44	0.48
17:AQ:30:VAL:CG2	17:AQ:32:TYR:HE2	2.24	0.48
17:AQ:30:VAL:CG2	17:AQ:32:TYR:CE2	2.85	0.48
17:AQ:64:ARG:HH12	17:AQ:78:LEU:H	1.60	0.48
18:AR:32:PHE:O	18:AR:36:ARG:HG2	2.14	0.48
18:AR:61:TRP:O	18:AR:65:ILE:CG1	2.62	0.48
18:AR:65:ILE:C	18:AR:67:ALA:N	2.72	0.48
20:AT:25:ARG:HA	20:AT:71:VAL:CG2	2.44	0.48
20:AT:47:VAL:O	20:AT:51:LEU:CD1	2.57	0.48
23:AW:37:VAL:C	23:AW:38:TYR:CD1	2.91	0.48
24:AX:14:ARG:HD3	24:AX:14:ARG:N	2.29	0.48
24:AX:26:TYR:CD2	24:AX:29:GLN:CD	2.92	0.48
25:AY:22:GLU:O	25:AY:25:ARG:HB2	2.13	0.48
26:AZ:23:LEU:HA	26:AZ:26:LEU:CD2	2.43	0.48
27:Aa:7:PRO:HG2	27:Aa:60:GLN:CG	2.44	0.48
27:Aa:28:LYS:CB	27:Aa:29:PRO:CD	2.91	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:64:GLY:O	27:Aa:68:ARG:NH1	2.46	0.48
30:Ad:12:ARG:O	30:Ad:13:ALA:C	2.57	0.48
31:Ae:30:ARG:O	31:Ae:31:HIS:C	2.56	0.48
34:BA:22:G:O4'	34:BA:885:G:H1'	2.14	0.48
34:BA:67:C:OP1	34:BA:199:G:H5''	2.14	0.48
34:BA:230:G:N1	34:BA:231:G:C4	2.82	0.48
34:BA:439:A:C2	34:BA:496:A:H1'	2.49	0.48
34:BA:627:G:H2'	34:BA:628:G:C8	2.47	0.48
34:BA:682:G:C6	34:BA:709:G:C6	3.02	0.48
34:BA:832:C:C4	34:BA:833:U:O4	2.66	0.48
34:BA:873:A:C5'	34:BA:874:G:OP2	2.60	0.48
34:BA:889:A:H4'	34:BA:890:G:C5'	2.44	0.48
34:BA:1031:G:C6	34:BA:1032:A:C6	3.01	0.48
34:BA:1087:G:N2	34:BA:1099:G:C4	2.82	0.48
34:BA:1117:G:C6	34:BA:1184:G:N7	2.73	0.48
34:BA:1144:G:N2	34:BA:1146:A:N7	2.62	0.48
34:BA:1181:G:H2'	34:BA:1182:G:C4'	2.44	0.48
34:BA:1275:A:O2'	34:BA:1276:G:H5'	2.14	0.48
34:BA:1407:C:O5'	34:BA:1407:C:H6	1.97	0.48
34:BA:1414:U:C2'	34:BA:1415:G:H8	2.23	0.48
34:BA:1480:G:H2'	34:BA:1481:U:O5'	2.14	0.48
35:BF:50:GLU:HG3	35:BF:200:ILE:C	2.32	0.48
35:BF:153:ARG:O	35:BF:154:LEU:C	2.57	0.48
36:BG:58:GLU:HB2	36:BG:65:ALA:CB	2.44	0.48
36:BG:91:LEU:O	36:BG:92:ALA:C	2.56	0.48
36:BG:190:ARG:CA	36:BG:190:ARG:NE	2.73	0.48
37:BH:175:SER:OG	37:BH:184:LYS:O	2.27	0.48
38:BI:69:VAL:HG12	38:BI:76:ILE:HD11	1.96	0.48
38:BI:91:LEU:HA	38:BI:119:LEU:O	2.14	0.48
39:BJ:67:MET:SD	39:BJ:67:MET:C	2.96	0.48
40:BK:47:CYS:HA	40:BK:50:ILE:CG1	2.43	0.48
40:BK:113:GLU:CB	40:BK:118:VAL:CG1	2.91	0.48
41:BL:24:THR:O	41:BL:24:THR:HG23	2.12	0.48
41:BL:114:THR:C	41:BL:116:LYS:N	2.72	0.48
42:BM:5:TYR:HD2	42:BM:6:GLY:H	1.62	0.48
42:BM:27:THR:CG2	42:BM:62:TYR:CE1	2.96	0.48
42:BM:82:ALA:CB	42:BM:101:PHE:CE1	2.97	0.48
42:BM:85:LEU:HD12	42:BM:89:ASN:ND2	2.28	0.48
43:BN:47:PHE:CE2	47:BR:37:PHE:CZ	3.02	0.48
44:BO:31:THR:HG22	44:BO:32:ILE:N	2.27	0.48
47:BR:3:ARG:O	47:BR:3:ARG:HG3	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:72:ARG:HA	51:BV:75:ILE:CD1	2.20	0.48
52:BW:29:ARG:HG2	52:BW:48:THR:CB	2.42	0.48
52:BW:64:GLU:CG	52:BW:65:ASN:N	2.73	0.48
53:BX:13:LEU:H	53:BX:13:LEU:CD1	1.99	0.48
53:BX:88:VAL:O	53:BX:92:LEU:HG	2.14	0.48
55:CA:14:VAL:N	55:CA:108:GLN:CB	2.70	0.48
55:CA:51:GLU:OE1	55:CA:52:ARG:HB2	2.14	0.48
55:CA:182:ASP:O	55:CA:183:MET:HG2	2.14	0.48
55:CA:205:PHE:CE2	55:CA:207:MET:CB	2.97	0.48
55:CA:318:PHE:CA	55:CA:321:LYS:CE	2.92	0.48
55:CA:390:ARG:CB	55:CA:391:GLU:HB2	2.31	0.48
55:CA:538:LEU:N	55:CA:539:THR:C	2.72	0.48
55:CA:581:THR:OG1	55:CA:584:SER:HB2	2.14	0.48
1:AA:28:A:N3	1:AA:29:U:C4'	2.77	0.47
1:AA:249:C:H5	1:AA:2395:C:OP1	1.97	0.47
1:AA:443:A:C5	6:AF:45:ARG:NH1	2.82	0.47
1:AA:586:A:H61	1:AA:810:U:H5'	1.78	0.47
1:AA:589:C:O2'	1:AA:590:A:H5'	2.13	0.47
1:AA:629:G:C5'	1:AA:649:G:N3	2.77	0.47
1:AA:656:G:C8	1:AA:656:G:OP2	2.67	0.47
1:AA:689:A:C4	1:AA:690:G:C8	3.02	0.47
1:AA:764:A:C6	1:AA:1789:A:C2	3.00	0.47
1:AA:805:G:N7	1:AA:2068:U:OP1	2.47	0.47
1:AA:814:C:H2'	1:AA:815:C:H6	1.77	0.47
1:AA:819:A:C2	1:AA:820:A:C5	3.02	0.47
1:AA:932:G:C2'	1:AA:933:A:C8	2.87	0.47
1:AA:963:U:C1'	1:AA:2250:G:H21	2.19	0.47
1:AA:969:U:N3	1:AA:970:C:C6	2.82	0.47
1:AA:974:G:H1'	1:AA:1186:G:C5	2.48	0.47
1:AA:986:C:O5'	1:AA:986:C:C6	2.67	0.47
1:AA:1077:A:H2	10:AJ:133:SER:CA	2.26	0.47
1:AA:1109:C:H2'	1:AA:1110:G:H1'	1.95	0.47
1:AA:1197:G:C6	1:AA:1198:U:C5	3.01	0.47
1:AA:1256:G:C2'	1:AA:1257:C:O5'	2.62	0.47
1:AA:1356:G:C2'	1:AA:1357:U:H5'	2.43	0.47
1:AA:1439:A:C8	1:AA:1440:G:C8	3.02	0.47
1:AA:1542:G:C2'	1:AA:1543:A:C5	2.96	0.47
1:AA:1612:C:H1'	30:Ad:6:GLN:NE2	2.29	0.47
1:AA:1656:C:C5'	5:AE:136:ARG:NH2	2.77	0.47
1:AA:1853:A:H2	1:AA:2087:G:N3	2.12	0.47
1:AA:1918:A:O2'	34:BA:1408:A:C5'	2.58	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1936:A:N3	1:AA:1940:U:C2	2.82	0.47
1:AA:1947:C:C2'	1:AA:1948:G:H5'	2.44	0.47
1:AA:2025:C:C2'	1:AA:2026:C:H6	2.23	0.47
1:AA:2070:G:O2'	1:AA:2071:A:H5'	2.14	0.47
1:AA:2078:C:H4'	1:AA:2433:A:O2'	2.12	0.47
1:AA:2113:U:N3	1:AA:2169:A:N6	2.60	0.47
1:AA:2127:G:C5	1:AA:2162:G:N1	2.82	0.47
1:AA:2176:A:O2'	3:AC:215:THR:HG21	2.14	0.47
1:AA:2286:A:N6	29:Ac:32:ASN:HA	2.29	0.47
1:AA:2350:C:O2'	1:AA:2351:G:OP1	2.32	0.47
1:AA:2380:C:N4	1:AA:2381:C:N4	2.62	0.47
1:AA:2458:G:N7	1:AA:2490:G:C5	2.82	0.47
1:AA:2460:U:H3'	1:AA:2461:C:C6	2.48	0.47
1:AA:2472:G:C2	1:AA:2475:C:C2	3.02	0.47
1:AA:2476:A:N7	1:AA:2477:C:C5	2.82	0.47
1:AA:2607:G:N1	1:AA:2608:G:N3	2.62	0.47
1:AA:2699:C:H2'	1:AA:2700:C:H5'	1.95	0.47
1:AA:2711:A:N6	1:AA:2714:G:C4	2.82	0.47
1:AA:2731:G:H22	1:AA:2732:G:N2	2.12	0.47
1:AA:2786:U:H4'	5:AE:64:LYS:C	2.39	0.47
1:AA:2792:G:C2	1:AA:2804:C:N3	2.75	0.47
1:AA:2816:C:H1'	1:AA:2831:G:N2	2.29	0.47
1:AA:2858:C:C5'	1:AA:2859:G:OP2	2.61	0.47
1:AA:2868:A:H2'	1:AA:2869:G:O4'	2.14	0.47
1:AA:2876:G:H5'	17:AQ:1:MET:N	2.29	0.47
1:AA:2877:G:N2	1:AA:2878:U:C2	2.82	0.47
1:AA:2897:U:H2'	1:AA:2898:U:C6	2.48	0.47
2:AB:88:C:O5'	2:AB:88:C:H6	1.97	0.47
3:AC:21:THR:CG2	3:AC:225:ASN:HD22	2.26	0.47
3:AC:68:LEU:HD23	3:AC:69:GLY:CA	2.44	0.47
3:AC:160:ARG:HD3	3:AC:160:ARG:C	2.38	0.47
3:AC:201:PRO:C	3:AC:203:GLY:H	2.22	0.47
4:AD:37:LEU:CD2	4:AD:63:ARG:HE	2.26	0.47
4:AD:60:ARG:CA	4:AD:62:TYR:CZ	2.94	0.47
4:AD:149:PRO:HG3	4:AD:189:CYS:SG	2.54	0.47
4:AD:166:GLN:O	4:AD:167:GLY:O	2.31	0.47
5:AE:119:ARG:CD	5:AE:156:MET:H	2.25	0.47
5:AE:136:ARG:NH1	5:AE:137:HIS:HA	2.29	0.47
6:AF:34:TRP:O	6:AF:38:ARG:HD2	2.13	0.47
6:AF:35:GLU:HA	6:AF:38:ARG:CD	2.44	0.47
6:AF:44:ARG:O	6:AF:45:ARG:O	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:119:ARG:HH11	6:AF:119:ARG:C	2.21	0.47
6:AF:136:THR:O	6:AF:139:PHE:HB3	2.13	0.47
7:AG:104:GLU:O	7:AG:105:LYS:C	2.56	0.47
8:AH:98:LEU:HD22	8:AH:100:GLY:C	2.39	0.47
11:AK:126:PRO:C	11:AK:127:ASP:OD2	2.57	0.47
11:AK:127:ASP:O	11:AK:130:HIS:HB2	2.14	0.47
12:AL:69:VAL:H	12:AL:104:ARG:HH22	1.58	0.47
13:AM:78:PRO:HD2	13:AM:115:LEU:O	2.14	0.47
14:AN:42:ILE:HD13	14:AN:43:THR:O	2.13	0.47
14:AN:99:PRO:HD2	14:AN:101:ARG:CZ	2.44	0.47
15:AO:88:ARG:NH1	15:AO:88:ARG:CB	2.63	0.47
15:AO:90:ARG:HB2	15:AO:94:TYR:CE1	2.49	0.47
17:AQ:3:ARG:O	17:AQ:6:LEU:CD2	2.57	0.47
17:AQ:30:VAL:CB	17:AQ:90:GLN:HA	2.39	0.47
17:AQ:64:ARG:C	17:AQ:65:LYS:O	2.56	0.47
17:AQ:76:PHE:CE2	17:AQ:78:LEU:HD12	2.49	0.47
17:AQ:100:TYR:C	17:AQ:102:ILE:N	2.70	0.47
18:AR:33:ARG:NH1	18:AR:33:ARG:HB2	2.28	0.47
18:AR:105:VAL:O	18:AR:108:GLU:OE1	2.32	0.47
18:AR:112:ARG:O	18:AR:115:ALA:N	2.47	0.47
19:AS:78:LYS:HB2	19:AS:83:ARG:O	2.14	0.47
20:AT:16:LYS:H	20:AT:16:LYS:NZ	2.07	0.47
20:AT:25:ARG:O	20:AT:27:LYS:N	2.46	0.47
21:AU:26:TYR:C	21:AU:28:PHE:CZ	2.92	0.47
22:AV:2:ARG:NH2	22:AV:4:LYS:HB2	2.19	0.47
26:AZ:7:LYS:HB3	26:AZ:55:ARG:CB	2.43	0.47
26:AZ:28:LEU:HA	26:AZ:33:GLN:OE1	2.13	0.47
27:Aa:48:ARG:H	27:Aa:52:THR:CG2	2.27	0.47
27:Aa:64:GLY:O	27:Aa:67:TYR:HB2	2.14	0.47
30:Ad:9:ARG:O	30:Ad:10:ARG:O	2.32	0.47
30:Ad:43:THR:O	30:Ad:45:ALA:N	2.46	0.47
32:Af:9:ARG:O	32:Af:10:ILE:HG23	2.14	0.47
34:BA:44:G:C5	34:BA:45:U:C6	3.02	0.47
34:BA:68:G:C2	34:BA:69:G:H1'	2.49	0.47
34:BA:145:G:C2	34:BA:178:C:C2	3.01	0.47
34:BA:160:A:H1'	34:BA:344:A:N7	2.29	0.47
34:BA:186(A):C:C2'	34:BA:186(B):C:H5'	2.44	0.47
34:BA:414:A:H62	34:BA:430:A:N6	2.12	0.47
34:BA:832:C:N3	34:BA:833:U:C4	2.82	0.47
34:BA:854:G:H3'	34:BA:871:U:C4	2.48	0.47
34:BA:891:U:C5	34:BA:906:G:N2	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:978:A:N6	34:BA:1318:A:H61	2.12	0.47
34:BA:1048:G:C5'	47:BR:3:ARG:NH1	2.68	0.47
34:BA:1081:G:H2'	34:BA:1082:G:C8	2.48	0.47
34:BA:1109:C:C2'	34:BA:1110:A:C8	2.86	0.47
34:BA:1111:A:O2'	34:BA:1112:C:H5'	2.14	0.47
34:BA:1178:G:N2	34:BA:1180:A:O5'	2.47	0.47
34:BA:1220:G:C4	52:BW:54:GLY:O	2.60	0.47
34:BA:1357:A:C5	34:BA:1358:U:O4	2.67	0.47
34:BA:1512:U:O2'	34:BA:1513:A:H5'	2.13	0.47
35:BF:69:LEU:HB3	35:BF:162:ILE:CG2	2.36	0.47
35:BF:126:GLU:O	35:BF:127:ILE:C	2.57	0.47
35:BF:187:LEU:HD23	35:BF:201:ILE:O	2.14	0.47
35:BF:222:ILE:HD13	35:BF:226:ARG:NH2	2.25	0.47
36:BG:8:ILE:CD1	36:BG:16:ARG:HD2	2.44	0.47
36:BG:18:TRP:CZ2	47:BR:55:GLY:O	2.67	0.47
36:BG:114:PRO:O	36:BG:117:ALA:HB3	2.14	0.47
37:BH:43:HIS:ND1	37:BH:46:LYS:HE3	2.29	0.47
37:BH:101:LEU:O	37:BH:104:VAL:CG2	2.40	0.47
37:BH:145:GLU:CB	37:BH:184:LYS:HG2	2.36	0.47
37:BH:173:TRP:CD1	37:BH:185:PHE:CE2	3.02	0.47
38:BI:108:ALA:HA	38:BI:111:GLU:CD	2.38	0.47
38:BI:144:THR:HG22	38:BI:146:ALA:CB	2.44	0.47
39:BJ:7:ASN:HD21	39:BJ:62:TRP:CD1	2.31	0.47
39:BJ:45:LEU:HD23	39:BJ:59:TYR:CB	2.44	0.47
40:BK:37:ASN:O	40:BK:39:ALA:N	2.47	0.47
40:BK:73:MET:HE3	40:BK:146:GLU:CB	2.26	0.47
40:BK:106:GLN:HE21	40:BK:106:GLN:N	2.12	0.47
41:BL:25:ASP:HA	41:BL:59:LEU:O	2.13	0.47
41:BL:40:ALA:HB2	41:BL:45:ILE:HG23	1.95	0.47
42:BM:79:LEU:HD22	42:BM:101:PHE:CD2	2.47	0.47
44:BO:18:ARG:HB2	44:BO:20:TYR:CE1	2.44	0.47
44:BO:65:ALA:CB	44:BO:98:LEU:HD23	2.33	0.47
46:BQ:70:LEU:HD12	46:BQ:74:VAL:CG2	2.44	0.47
48:BS:56:LEU:O	48:BS:59:MET:HB3	2.14	0.47
48:BS:71:GLN:O	48:BS:72:ARG:C	2.57	0.47
51:BV:18:ARG:HH22	51:BV:21:LYS:HD3	1.79	0.47
51:BV:71:LYS:O	51:BV:73:ALA:N	2.46	0.47
55:CA:130:VAL:HG11	55:CA:164:TYR:CB	2.35	0.47
55:CA:133:PRO:CG	55:CA:134:GLY:H	2.27	0.47
55:CA:137:PRO:O	55:CA:164:TYR:HE2	1.97	0.47
55:CA:205:PHE:CD2	55:CA:231:VAL:HG22	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:207:MET:CG	55:CA:226:ILE:HD11	1.94	0.47
1:AA:2:G:O6	1:AA:2902:C:C5	2.64	0.47
1:AA:37:C:O2'	6:AF:50:SER:HA	2.14	0.47
1:AA:65:C:C2	1:AA:66:C:H5	2.32	0.47
1:AA:111:A:C2'	1:AA:112:U:C6	2.94	0.47
1:AA:270(N):G:C8	1:AA:270(O):U:C6	3.02	0.47
1:AA:307:G:H2'	1:AA:309:G:H8	1.79	0.47
1:AA:349:G:C2'	1:AA:350:U:H6	2.24	0.47
1:AA:410:G:N2	1:AA:2407:G:N7	2.62	0.47
1:AA:458:G:H5''	30:Ad:39:ARG:NE	2.29	0.47
1:AA:459:U:H3'	30:Ad:40:TRP:CZ3	2.47	0.47
1:AA:470:A:O2'	1:AA:471:A:P	2.72	0.47
1:AA:515:A:H5''	18:AR:32:PHE:HZ	1.72	0.47
1:AA:557:U:O3'	11:AK:112:LEU:CD2	2.61	0.47
1:AA:600:G:H21	1:AA:604:G:H4'	1.77	0.47
1:AA:616:A:H3'	1:AA:616:A:P	2.51	0.47
1:AA:653:A:H5'	1:AA:654:A:H4'	1.96	0.47
1:AA:700:G:H4'	1:AA:1633:G:H4'	1.96	0.47
1:AA:814:C:C3'	1:AA:1224:G:H22	2.28	0.47
1:AA:833:U:H1'	13:AM:48:PRO:HB2	1.95	0.47
1:AA:852:G:C5	1:AA:926:A:C2	3.01	0.47
1:AA:885:C:H5'	1:AA:886:C:C6	2.48	0.47
1:AA:956:G:P	14:AN:87:LYS:HG3	2.53	0.47
1:AA:1044:G:O2'	1:AA:1046:A:H5'	2.14	0.47
1:AA:1080:C:O4'	10:AJ:128:ALA:HB3	2.01	0.47
1:AA:1174:A:C2	1:AA:1176:G:O5'	2.67	0.47
1:AA:1181:C:H2'	1:AA:1182:A:O4'	2.14	0.47
1:AA:1203:G:N2	1:AA:1206:G:N1	2.62	0.47
1:AA:1294:U:H2'	1:AA:1295:C:H5'	1.96	0.47
1:AA:1351:C:C4	1:AA:1381:G:C6	3.02	0.47
1:AA:1368:G:O6	27:Aa:2:LYS:NZ	2.45	0.47
1:AA:1402:C:N4	1:AA:1403:C:N4	2.62	0.47
1:AA:1469:A:H3'	1:AA:1469:A:C8	2.50	0.47
1:AA:1479:G:N2	1:AA:1515:C:N3	2.61	0.47
1:AA:1567:A:N3	1:AA:1567:A:C2'	2.74	0.47
1:AA:1613:G:C8	1:AA:1617:C:N4	2.82	0.47
1:AA:1626:G:H5'	1:AA:1627:G:OP1	2.14	0.47
1:AA:1655:A:H4'	5:AE:114:ALA:HA	1.96	0.47
1:AA:1689:A:N3	1:AA:1690:A:N7	2.62	0.47
1:AA:1806:C:C2	1:AA:1807:G:H8	2.31	0.47
1:AA:1941:C:C6	1:AA:1965:C:C4	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2021:C:N4	18:AR:28:ARG:HH12	2.12	0.47
1:AA:2051:A:N1	1:AA:2614:A:C6	2.82	0.47
1:AA:2110:G:C2'	1:AA:2120:G:H5'	2.45	0.47
1:AA:2161:C:C2	1:AA:2162:G:C8	3.02	0.47
1:AA:2232:U:C2'	1:AA:2233:U:C5'	2.92	0.47
1:AA:2287:A:H2	29:Ac:37:ARG:HH22	1.62	0.47
1:AA:2365:G:OP1	24:AX:55:ARG:CG	2.62	0.47
1:AA:2520:C:H2'	1:AA:2521:C:C6	2.48	0.47
1:AA:2527:C:H2'	1:AA:2528:U:H6	1.79	0.47
1:AA:2528:U:C2	1:AA:2536:G:N2	2.82	0.47
1:AA:2530:A:H2'	1:AA:2531:A:H5''	1.96	0.47
1:AA:2545:G:O2'	1:AA:2546:U:H5'	2.14	0.47
1:AA:2659:G:H1'	1:AA:2663:G:N1	2.29	0.47
1:AA:2691:C:N3	1:AA:2719:G:N2	2.61	0.47
1:AA:2808:U:N1	1:AA:2892:A:N6	2.62	0.47
2:AB:85:G:C2	2:AB:86:G:C8	3.02	0.47
3:AC:108:MET:CE	3:AC:131:LEU:HA	2.44	0.47
3:AC:190:ARG:NH1	3:AC:190:ARG:HG3	2.29	0.47
3:AC:190:ARG:O	3:AC:191:ALA:C	2.57	0.47
4:AD:6:PHE:O	4:AD:28:GLU:OE1	2.31	0.47
4:AD:143:HIS:CA	4:AD:145:VAL:HG23	2.45	0.47
4:AD:208:LYS:CE	4:AD:211:ARG:NE	2.78	0.47
5:AE:55:ASN:HA	5:AE:58:ARG:HH12	1.78	0.47
5:AE:60:ASN:OD1	5:AE:61:ARG:N	2.47	0.47
6:AF:22:ALA:HB1	6:AF:115:ALA:CB	2.43	0.47
6:AF:26:ALA:O	6:AF:112:MET:SD	2.72	0.47
6:AF:156:LEU:N	6:AF:156:LEU:HD23	2.29	0.47
7:AG:47:LYS:HB3	7:AG:72:ARG:CB	2.44	0.47
8:AH:103:LEU:H	8:AH:115:VAL:H	1.62	0.47
8:AH:137:ASP:O	8:AH:141:VAL:HG23	2.13	0.47
9:AI:54:ALA:CB	9:AI:83:TYR:CB	2.91	0.47
10:AJ:34:ILE:CD1	10:AJ:63:ARG:HH22	2.18	0.47
11:AK:15:LEU:HD11	11:AK:137:LYS:O	2.14	0.47
11:AK:23:LEU:HD23	11:AK:61:ARG:O	2.12	0.47
11:AK:25:ARG:HH21	11:AK:26:LEU:HB2	1.80	0.47
11:AK:95:PRO:HG2	11:AK:124:ALA:HB2	1.94	0.47
12:AL:64:ARG:HE	12:AL:67:LYS:CA	2.27	0.47
12:AL:97:ARG:CD	12:AL:97:ARG:O	2.62	0.47
12:AL:122:LEU:CA	17:AQ:74:ARG:NH1	2.68	0.47
13:AM:56:SER:OG	31:Ae:13:ARG:NE	2.47	0.47
13:AM:114:ILE:HD11	13:AM:123:LEU:CG	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:119:GLU:C	13:AM:120:ALA:O	2.57	0.47
14:AN:22:LYS:HA	14:AN:99:PRO:HD3	1.96	0.47
15:AO:54:LEU:O	15:AO:55:ALA:C	2.56	0.47
16:AP:24:LEU:HD11	16:AP:41:ASP:CB	2.43	0.47
16:AP:57:LYS:HD2	16:AP:65:VAL:HA	1.95	0.47
16:AP:58:LEU:O	16:AP:65:VAL:CG1	2.60	0.47
16:AP:72:ALA:O	16:AP:73:LEU:C	2.57	0.47
17:AQ:31:SER:HA	17:AQ:32:TYR:CE1	2.49	0.47
17:AQ:99:LEU:O	17:AQ:102:ILE:HG23	2.13	0.47
18:AR:33:ARG:C	18:AR:35:ALA:N	2.66	0.47
20:AT:18:ARG:CD	20:AT:76:VAL:HG12	2.36	0.47
20:AT:28:SER:O	20:AT:31:GLU:OE1	2.32	0.47
20:AT:59:VAL:HA	20:AT:63:ASP:O	2.14	0.47
21:AU:35:THR:O	21:AU:38:GLU:CB	2.62	0.47
21:AU:36:LYS:HE3	21:AU:56:THR:OG1	2.14	0.47
22:AV:84:ARG:HG2	22:AV:85:VAL:N	2.29	0.47
23:AW:39:VAL:CG2	23:AW:44:PHE:CE2	2.87	0.47
23:AW:44:PHE:O	23:AW:48:PHE:CD2	2.67	0.47
23:AW:111:VAL:C	23:AW:113:ALA:H	2.22	0.47
25:AY:38:GLN:H	25:AY:41:GLN:HE21	1.51	0.47
26:AZ:8:LEU:CB	26:AZ:33:GLN:HB3	2.44	0.47
26:AZ:23:LEU:HA	26:AZ:28:LEU:HD11	1.95	0.47
28:Ab:19:ARG:C	28:Ab:21:SER:H	2.21	0.47
28:Ab:31:VAL:HB	28:Ab:32:PRO:CD	2.44	0.47
29:Ac:20:ASN:HD22	29:Ac:43:CYS:H	1.62	0.47
30:Ad:10:ARG:HG2	30:Ad:14:LYS:HE3	1.95	0.47
31:Ae:37:SER:O	31:Ae:41:ILE:HG13	2.13	0.47
34:BA:22:G:P	34:BA:561:U:O2	2.72	0.47
34:BA:87:A:N7	34:BA:88:C:C5	2.81	0.47
34:BA:142:G:N1	34:BA:143:A:C5	2.82	0.47
34:BA:152:A:C8	34:BA:153:C:C6	3.02	0.47
34:BA:184:G:O4'	34:BA:224:C:H4'	2.14	0.47
34:BA:277:C:P	50:BU:68:ARG:HH12	2.36	0.47
34:BA:444:C:O2'	34:BA:445:G:H5'	2.14	0.47
34:BA:464:G:N2	34:BA:474:G:O6	2.47	0.47
34:BA:497:U:O2'	34:BA:498:A:H5'	2.13	0.47
34:BA:515:G:C2	34:BA:537:G:C2	3.02	0.47
34:BA:558:G:C4'	34:BA:559:A:H5''	2.42	0.47
34:BA:665:A:C2	34:BA:732:C:C4	3.02	0.47
34:BA:696:A:C2'	34:BA:697:U:H5'	2.44	0.47
34:BA:784:C:H2'	34:BA:785:G:O4'	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:862:C:C2	34:BA:863:U:C5	3.02	0.47
34:BA:975:A:HO2'	34:BA:976:G:P	2.27	0.47
34:BA:1079:G:N2	34:BA:1080:A:N1	2.62	0.47
34:BA:1318:A:H3'	52:BW:37:ARG:CB	2.09	0.47
34:BA:1323:G:C2	34:BA:1324:A:C5	3.02	0.47
34:BA:1354:C:H2'	34:BA:1355:G:C8	2.48	0.47
35:BF:18:GLY:HA2	35:BF:41:ILE:HG23	1.96	0.47
35:BF:72:GLY:HA2	35:BF:165:VAL:HG21	1.96	0.47
36:BG:71:ALA:HB2	36:BG:106:VAL:HG23	1.94	0.47
37:BH:14:ARG:CZ	37:BH:14:ARG:O	2.62	0.47
37:BH:77:ASN:O	37:BH:78:LEU:C	2.57	0.47
37:BH:123:HIS:N	37:BH:123:HIS:CD2	2.81	0.47
38:BI:49:PRO:O	38:BI:50:GLU:HG2	2.14	0.47
38:BI:56:GLN:N	38:BI:56:GLN:HE21	2.11	0.47
40:BK:14:PRO:HB3	40:BK:19:GLY:C	2.40	0.47
40:BK:65:ALA:CB	40:BK:124:LEU:HD23	2.43	0.47
41:BL:6:ILE:HD12	41:BL:85:ARG:CZ	2.44	0.47
41:BL:89:PRO:HA	41:BL:92:ARG:HE	1.78	0.47
41:BL:112:LEU:HG	41:BL:113:SER:N	2.28	0.47
43:BN:60:ARG:CA	43:BN:60:ARG:NH1	2.76	0.47
43:BN:74:ILE:HD11	43:BN:85:LEU:HD21	1.96	0.47
45:BP:34:ARG:N	45:BP:84:LEU:HD12	2.30	0.47
45:BP:48:PRO:HG3	45:BP:92:ASP:OD1	2.14	0.47
46:BQ:13:LYS:CG	46:BQ:17:VAL:HG11	2.44	0.47
46:BQ:27:LYS:O	46:BQ:28:ALA:HB3	2.14	0.47
46:BQ:40:ASN:O	46:BQ:43:THR:OG1	2.25	0.47
47:BR:27:CYS:SG	47:BR:42:ILE:HG13	2.54	0.47
48:BS:24:SER:O	48:BS:25:THR:C	2.55	0.47
48:BS:42:HIS:CD2	48:BS:43:LEU:N	2.81	0.47
50:BU:20:THR:O	50:BU:21:VAL:HG13	2.13	0.47
50:BU:86:GLU:O	50:BU:87:LYS:C	2.56	0.47
53:BX:22:ARG:O	53:BX:23:ARG:C	2.57	0.47
53:BX:76:ALA:O	53:BX:77:ALA:C	2.56	0.47
55:CA:33:ASP:CG	55:CA:34:SER:HA	2.39	0.47
55:CA:40:GLU:CA	55:CA:41:ARG:CB	2.89	0.47
55:CA:57:LEU:HD23	55:CA:71:ASN:ND2	2.29	0.47
55:CA:63:ALA:CB	55:CA:65:LYS:HG2	2.30	0.47
55:CA:67:ASP:H	55:CA:68:TYR:CB	2.27	0.47
55:CA:101:ALA:HA	55:CA:140:VAL:HG21	1.95	0.47
55:CA:305:PRO:HB2	55:CA:361:ARG:HA	1.95	0.47
55:CA:373:MET:CE	55:CA:380:LEU:HD21	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:196:A:N3	1:AA:2068:U:H5	2.12	0.47
1:AA:233:A:C5	1:AA:234:C:C6	3.03	0.47
1:AA:276:A:H2'	1:AA:276:A:N3	2.28	0.47
1:AA:301:G:C8	1:AA:317:G:N2	2.83	0.47
1:AA:446:G:C8	18:AR:3:ARG:NH2	2.83	0.47
1:AA:594:U:OP1	31:Ae:61:LEU:HB3	2.14	0.47
1:AA:638:G:H2'	1:AA:639:U:C4'	2.44	0.47
1:AA:729:G:H2'	1:AA:730:C:C2'	2.44	0.47
1:AA:743:G:H2'	1:AA:744:G:H8	1.79	0.47
1:AA:782:A:H4'	1:AA:783:A:N7	2.30	0.47
1:AA:850:C:H5''	26:AZ:18:ASP:CB	2.43	0.47
1:AA:859:G:H3'	1:AA:859:G:H8	1.77	0.47
1:AA:919:G:H2'	1:AA:920:G:O5'	2.14	0.47
1:AA:974:G:C3'	1:AA:974(A):C:C5'	2.85	0.47
1:AA:1055:G:C2	1:AA:1084:A:C2	3.01	0.47
1:AA:1080:C:H2'	1:AA:1081:U:N1	2.29	0.47
1:AA:1216:G:OP1	18:AR:11:ARG:HD2	2.14	0.47
1:AA:1259:G:C4	1:AA:1260:G:C8	3.03	0.47
1:AA:1275:A:N7	1:AA:1296:G:C1'	2.76	0.47
1:AA:1334:G:C2'	1:AA:1335:U:O5'	2.62	0.47
1:AA:1444(A):A:N6	1:AA:1461:G:H5''	2.29	0.47
1:AA:1484:G:C6	1:AA:1485:G:C5	3.03	0.47
1:AA:1493:C:N4	1:AA:1499:C:C2	2.82	0.47
1:AA:1524:G:C4	1:AA:1525:G:N7	2.82	0.47
1:AA:1568:G:N3	1:AA:1568:G:O4'	2.46	0.47
1:AA:1593:G:C4	1:AA:1594:G:C8	3.02	0.47
1:AA:1619:G:N1	1:AA:1620:G:C5	2.83	0.47
1:AA:1637:A:H2'	1:AA:1638:C:H6	1.78	0.47
1:AA:1680:U:O2	1:AA:1764:G:O5'	2.33	0.47
1:AA:1689:A:C6	1:AA:1700:A:C2	3.02	0.47
1:AA:1697:G:O6	1:AA:1698:A:N1	2.47	0.47
1:AA:1757:U:H2'	1:AA:1758:G:OP1	2.15	0.47
1:AA:1773:A:C6	1:AA:1829:A:C1'	2.88	0.47
1:AA:1777:U:C2'	1:AA:1778:U:H5'	2.42	0.47
1:AA:1935:G:C2	1:AA:1962:C:C2	3.02	0.47
1:AA:1958:C:O2'	1:AA:1959:G:C5'	2.58	0.47
1:AA:2169:A:H2'	1:AA:2169:A:N3	2.28	0.47
1:AA:2183:C:C2	1:AA:2184:G:C8	3.02	0.47
1:AA:2194:G:C2'	1:AA:2195:C:H5	2.28	0.47
1:AA:2247:A:H8	1:AA:2247:A:O5'	1.97	0.47
1:AA:2288:A:H5'	1:AA:2289:G:OP2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2289:G:N2	1:AA:2344:U:C6	2.82	0.47
1:AA:2345:G:H21	1:AA:2381:C:H3'	1.79	0.47
1:AA:2392:A:C2'	1:AA:2393:A:C5'	2.93	0.47
1:AA:2505:G:C8	1:AA:2505:G:H3'	2.49	0.47
1:AA:2505:G:H3'	1:AA:2505:G:H8	1.78	0.47
1:AA:2625:G:N1	1:AA:2777:G:N2	2.61	0.47
1:AA:2751:G:O4'	8:AH:6:ARG:NH2	2.47	0.47
3:AC:71:GLN:CG	3:AC:72:VAL:N	2.75	0.47
4:AD:144:ALA:O	4:AD:145:VAL:C	2.57	0.47
5:AE:55:ASN:CB	5:AE:73:GLU:CD	2.86	0.47
5:AE:120:TRP:CD1	5:AE:121:ASN:O	2.67	0.47
5:AE:127:ASP:CG	5:AE:135:HIS:N	2.72	0.47
6:AF:9:ILE:CG2	6:AF:10:PRO:N	2.77	0.47
6:AF:12:LEU:O	6:AF:14:PRO:N	2.48	0.47
6:AF:110:LEU:HD21	6:AF:186:ILE:HD11	1.95	0.47
7:AG:101:ILE:O	7:AG:101:ILE:CD1	2.52	0.47
8:AH:98:LEU:HD22	8:AH:100:GLY:H	1.79	0.47
11:AK:18:ALA:O	11:AK:21:LYS:HB2	2.14	0.47
12:AL:70:LYS:HE2	12:AL:104:ARG:HG2	1.96	0.47
13:AM:84:ASN:C	13:AM:85:LEU:HD12	2.39	0.47
14:AN:6:ARG:HB2	14:AN:44:ALA:HB3	1.94	0.47
15:AO:33:ARG:NH2	28:Ab:56:LYS:CE	2.77	0.47
16:AP:58:LEU:C	16:AP:60:GLY:N	2.72	0.47
16:AP:92:TYR:CE2	16:AP:93:LYS:HB3	2.48	0.47
17:AQ:39:ARG:CG	34:BA:345:C:OP2	2.63	0.47
18:AR:57:PHE:HD2	18:AR:61:TRP:HE1	1.62	0.47
18:AR:88:ILE:CB	19:AS:52:VAL:HG22	2.45	0.47
18:AR:91:ASP:OD2	19:AS:10:LYS:HD3	2.14	0.47
19:AS:67:GLY:CA	19:AS:94:LEU:HA	2.45	0.47
19:AS:88:ARG:CG	19:AS:89:GLN:N	2.76	0.47
20:AT:13:SER:N	20:AT:101:SER:OG	2.47	0.47
23:AW:122:ARG:NH2	23:AW:169:GLU:OE1	2.47	0.47
25:AY:33:GLN:O	25:AY:36:ILE:HG22	2.13	0.47
28:Ab:13:LYS:O	28:Ab:16:ARG:N	2.47	0.47
29:Ac:17:LYS:HG2	29:Ac:19:ARG:HE	1.79	0.47
30:Ad:8:ASN:HD22	30:Ad:9:ARG:N	2.12	0.47
34:BA:68:G:C4'	34:BA:171:A:H1'	2.44	0.47
34:BA:69:G:H2'	34:BA:69:G:N3	2.28	0.47
34:BA:73:G:C6	34:BA:74:C:N4	2.82	0.47
34:BA:109:A:N6	34:BA:326:G:N1	2.63	0.47
34:BA:323:U:H5	34:BA:324:G:N9	2.11	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:393:A:N6	34:BA:394:G:O6	2.47	0.47
34:BA:541:G:C8	34:BA:541:G:OP2	2.67	0.47
34:BA:606:G:H22	34:BA:631:G:H2'	1.79	0.47
34:BA:654:G:H1	34:BA:754:C:N4	2.12	0.47
34:BA:666:G:H22	34:BA:741:G:H1'	1.78	0.47
34:BA:813:U:OP1	34:BA:904:C:H5'	2.14	0.47
34:BA:1134:G:C6	34:BA:1141:C:N4	2.82	0.47
34:BA:1200:C:C5'	34:BA:1202:G:OP1	2.62	0.47
34:BA:1320:C:O3'	52:BW:73:GLU:CB	2.52	0.47
34:BA:1390:U:C2	34:BA:1391:U:C5	3.03	0.47
35:BF:61:LEU:O	35:BF:64:ARG:HD2	2.15	0.47
35:BF:91:PRO:CG	35:BF:155:LEU:HD23	2.42	0.47
36:BG:108:ASN:C	36:BG:110:ASN:H	2.22	0.47
36:BG:120:VAL:HG21	36:BG:137:ALA:HB2	1.96	0.47
36:BG:121:ALA:O	36:BG:122:GLU:C	2.56	0.47
36:BG:150:LYS:NZ	36:BG:152:ILE:HG21	2.29	0.47
37:BH:64:LEU:CD1	37:BH:65:ARG:N	2.76	0.47
37:BH:73:ARG:O	37:BH:74:GLN:C	2.58	0.47
37:BH:128:VAL:HG23	37:BH:133:VAL:H	1.78	0.47
37:BH:128:VAL:HB	37:BH:132:ARG:HA	1.95	0.47
38:BI:50:GLU:O	38:BI:51:VAL:C	2.57	0.47
40:BK:69:VAL:HG11	40:BK:104:LEU:HD21	1.94	0.47
40:BK:129:GLU:OE1	40:BK:131:LYS:HD3	2.14	0.47
41:BL:97:VAL:HG22	41:BL:98:LYS:HZ2	1.79	0.47
42:BM:50:LEU:HD21	42:BM:55:ALA:O	2.15	0.47
45:BP:57:LYS:C	45:BP:58:VAL:HG23	2.39	0.47
47:BR:29:ARG:HB2	47:BR:40:CYS:HB3	1.96	0.47
49:BT:26:ARG:HD2	49:BT:31:LYS:H	1.73	0.47
49:BT:58:TYR:O	49:BT:59:TRP:C	2.57	0.47
49:BT:71:ARG:NH1	49:BT:71:ARG:HB2	2.29	0.47
51:BV:69:THR:HA	51:BV:72:ARG:CG	2.42	0.47
53:BX:51:GLU:HA	53:BX:54:LYS:HG3	1.94	0.47
53:BX:86:ARG:CG	53:BX:87:LYS:N	2.77	0.47
55:CA:21:LEU:HD21	55:CA:98:VAL:CG2	2.24	0.47
55:CA:40:GLU:N	55:CA:41:ARG:HB2	2.29	0.47
55:CA:43:MET:C	55:CA:43:MET:SD	2.97	0.47
55:CA:57:LEU:CB	55:CA:254:VAL:O	2.58	0.47
55:CA:82:GLY:CA	55:CA:361:ARG:CB	2.89	0.47
55:CA:310:PHE:N	55:CA:385:PRO:HG3	2.29	0.47
55:CA:419:LEU:HD12	55:CA:441:TYR:HB2	1.96	0.47
55:CA:422:ARG:NH1	55:CA:480:VAL:C	2.65	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:483:ARG:HG3	55:CA:573:ASP:CG	2.39	0.47
1:AA:55:G:N3	1:AA:56:A:C8	2.83	0.47
1:AA:95:G:OP1	25:AY:39:LEU:HD13	2.14	0.47
1:AA:187:G:C2'	1:AA:1365:A:C2	2.95	0.47
1:AA:219:G:H2'	1:AA:220:G:O4'	2.14	0.47
1:AA:230:U:C2'	1:AA:231:C:O4'	2.62	0.47
1:AA:270(R):G:C2	1:AA:270(S):G:C4	3.03	0.47
1:AA:270(W):G:C4	1:AA:270(X):G:H8	2.32	0.47
1:AA:363(B):G:O2'	1:AA:363(C):G:O5'	2.31	0.47
1:AA:364:C:N3	1:AA:365:C:N4	2.62	0.47
1:AA:403:U:C5'	1:AA:404:C:OP1	2.62	0.47
1:AA:419:C:H2'	1:AA:420:C:C6	2.50	0.47
1:AA:483:A:H2'	1:AA:484:C:H5'	1.95	0.47
1:AA:786:C:H2'	1:AA:787:U:O4'	2.14	0.47
1:AA:791:C:H5'	1:AA:792:G:OP1	2.14	0.47
1:AA:865:C:O2	1:AA:865:C:C2'	2.63	0.47
1:AA:945:A:N3	1:AA:945:A:C2'	2.76	0.47
1:AA:1212:G:C8	1:AA:1235:G:N1	2.83	0.47
1:AA:1241:A:C3'	1:AA:1241:A:C4	2.98	0.47
1:AA:1281:G:H2'	1:AA:1282:U:C5	2.46	0.47
1:AA:1287:A:OP1	15:AO:105:ARG:HB2	2.14	0.47
1:AA:1314:C:H2'	1:AA:1315:C:H5'	1.93	0.47
1:AA:1342:A:H8	1:AA:1342:A:P	2.37	0.47
1:AA:1352:U:O2	1:AA:1352:U:C2'	2.62	0.47
1:AA:1448:G:C4'	1:AA:1543:A:C6	2.90	0.47
1:AA:1477:A:H2	1:AA:1516:U:O2	1.96	0.47
1:AA:1515:C:H6	1:AA:1515:C:P	2.37	0.47
1:AA:1544:C:C2'	1:AA:1545:A:O4'	2.62	0.47
1:AA:1656:C:O3'	5:AE:136:ARG:NH1	2.47	0.47
1:AA:1689:A:H2'	1:AA:1690:A:C8	2.49	0.47
1:AA:1750:G:O2'	1:AA:1751:C:C5'	2.59	0.47
1:AA:1761:C:H5''	1:AA:1762:A:C2	2.49	0.47
1:AA:1802:A:H5'	1:AA:1803:A:P	2.54	0.47
1:AA:1820:U:C5	4:AD:159:ALA:C	2.89	0.47
1:AA:1826:G:OP1	4:AD:233:HIS:CD2	2.68	0.47
1:AA:1912:A:H1'	34:BA:1495:U:C1'	2.44	0.47
1:AA:1936:A:O4'	1:AA:1940:U:O4	2.33	0.47
1:AA:1952:A:C8	1:AA:1953:A:C4	3.03	0.47
1:AA:1992:G:C2'	1:AA:1993:U:H5	2.27	0.47
1:AA:2097:C:H2'	1:AA:2098:U:C4'	2.44	0.47
1:AA:2286:A:N7	29:Ac:31:PRO:CD	2.77	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2343:C:H4'	1:AA:2373:G:O3'	2.14	0.47
1:AA:2371:G:H2'	1:AA:2372:G:C8	2.49	0.47
1:AA:2435:A:C2	1:AA:2436:G:N9	2.82	0.47
1:AA:2482:G:H2'	1:AA:2483:C:O4'	2.14	0.47
1:AA:2633:G:N1	1:AA:2634:G:C5	2.83	0.47
1:AA:2645:G:H8	1:AA:2645:G:H5''	1.79	0.47
1:AA:2670:A:N1	1:AA:2671:A:C6	2.82	0.47
1:AA:2838:G:C6	1:AA:2839:G:N7	2.82	0.47
1:AA:2848:G:O5'	17:AQ:99:LEU:HG	2.13	0.47
1:AA:2893:G:O4'	1:AA:2893:G:P	2.73	0.47
1:AA:2901:C:C2	1:AA:2902:C:C5	3.00	0.47
2:AB:12:C:O5'	24:AX:74:ARG:NE	2.46	0.47
2:AB:100:G:C6	2:AB:101:A:N6	2.82	0.47
3:AC:4:GLY:C	3:AC:5:LYS:HD2	2.39	0.47
3:AC:22:ILE:HD13	3:AC:189:ILE:HG22	1.95	0.47
3:AC:160:ARG:O	3:AC:161:ILE:HG13	2.14	0.47
5:AE:30:PRO:HB2	5:AE:48:GLN:CB	2.30	0.47
5:AE:97:LYS:CG	5:AE:100:GLU:CD	2.87	0.47
5:AE:104:VAL:HG22	5:AE:198:VAL:CB	2.44	0.47
5:AE:105:THR:OG1	5:AE:165:VAL:C	2.58	0.47
5:AE:131:ALA:C	5:AE:133:LYS:H	2.22	0.47
6:AF:6:VAL:CB	6:AF:18:ARG:HD2	2.41	0.47
6:AF:39:TRP:CD2	6:AF:39:TRP:C	2.88	0.47
8:AH:11:VAL:HG13	8:AH:15:VAL:HG11	1.95	0.47
8:AH:17:VAL:O	8:AH:17:VAL:HG13	2.14	0.47
10:AJ:55:VAL:H	10:AJ:56:GLU:HA	1.79	0.47
11:AK:104:LYS:O	11:AK:106:MET:N	2.47	0.47
11:AK:115:ARG:HA	11:AK:118:LYS:HE3	1.96	0.47
12:AL:21:CYS:CA	12:AL:40:VAL:O	2.62	0.47
12:AL:59:LYS:N	12:AL:59:LYS:CD	2.77	0.47
13:AM:46:LYS:HZ1	13:AM:50:ARG:HH21	1.63	0.47
13:AM:96:THR:CB	13:AM:102:ARG:HD3	2.44	0.47
15:AO:22:ARG:O	15:AO:26:LYS:HG3	2.15	0.47
16:AP:43:GLU:O	16:AP:44:LYS:C	2.56	0.47
17:AQ:42:ILE:CD1	34:BA:344:A:HO2'	2.17	0.47
19:AS:22:VAL:O	19:AS:93:GLU:CB	2.62	0.47
20:AT:1:MET:N	20:AT:4:LYS:HD3	2.29	0.47
20:AT:65:LEU:O	20:AT:66:GLU:C	2.56	0.47
22:AV:29:GLU:CD	22:AV:32:PRO:HG2	2.37	0.47
22:AV:39:VAL:O	22:AV:39:VAL:HG12	2.13	0.47
23:AW:18:LEU:C	23:AW:23:LYS:O	2.57	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:60:GLU:HG3	23:AW:69:THR:HG22	1.95	0.47
28:Ab:10:LYS:HE3	28:Ab:15:ARG:NH2	2.30	0.47
29:Ac:19:ARG:HD3	29:Ac:19:ARG:N	2.13	0.47
30:Ad:34:ARG:O	30:Ad:35:ARG:C	2.56	0.47
31:Ae:16:ILE:CD1	31:Ae:60:LEU:HD22	2.42	0.47
31:Ae:60:LEU:O	31:Ae:61:LEU:C	2.57	0.47
34:BA:20:U:O4	34:BA:21:G:C6	2.68	0.47
34:BA:108:G:C5	53:BX:15:ARG:NE	2.82	0.47
34:BA:141:A:H2'	34:BA:142:G:O4'	2.14	0.47
34:BA:290:C:H2'	34:BA:291:C:C5'	2.44	0.47
34:BA:292:G:H3'	34:BA:293:G:H8	1.80	0.47
34:BA:383:A:H2'	34:BA:384:G:C4'	2.44	0.47
34:BA:414:A:N7	34:BA:430:A:N6	2.62	0.47
34:BA:541:G:OP2	34:BA:541:G:H8	1.97	0.47
34:BA:573:A:C2	34:BA:574:A:N1	2.82	0.47
34:BA:597:G:C8	34:BA:644:G:N2	2.83	0.47
34:BA:628:G:C2'	34:BA:629:G:H8	2.21	0.47
34:BA:673:G:C2	34:BA:674:G:N1	2.82	0.47
34:BA:690:G:H3'	34:BA:691:G:C8	2.49	0.47
34:BA:695:A:C4	34:BA:696:A:C8	3.02	0.47
34:BA:695:A:C2	34:BA:696:A:C4	3.02	0.47
34:BA:721:G:OP2	51:BV:63:GLN:HG2	2.15	0.47
34:BA:1086:U:H2'	34:BA:1087:G:C8	2.49	0.47
34:BA:1254:C:OP1	43:BN:45:ARG:HD2	2.15	0.47
34:BA:1371:G:H5''	42:BM:68:GLY:O	2.15	0.47
34:BA:1402:C:H2'	34:BA:1403:C:C6	2.45	0.47
34:BA:1433:A:N1	34:BA:1434:A:C2	2.82	0.47
34:BA:1447:G:C6	34:BA:1460:A:C6	3.03	0.47
35:BF:45:GLN:O	35:BF:49:GLU:OE2	2.32	0.47
35:BF:69:LEU:CD1	35:BF:69:LEU:C	2.87	0.47
35:BF:71:VAL:HG22	35:BF:93:VAL:N	2.28	0.47
35:BF:97:TRP:CH2	35:BF:176:GLU:CD	2.77	0.47
35:BF:112:VAL:CG1	35:BF:149:LEU:HD21	2.44	0.47
35:BF:115:LEU:HD23	35:BF:149:LEU:HD13	1.94	0.47
35:BF:149:LEU:C	35:BF:151:GLY:H	2.22	0.47
36:BG:22:TRP:CZ2	47:BR:54:PRO:HG2	2.50	0.47
36:BG:29:TYR:CG	47:BR:36:PHE:HE1	2.32	0.47
37:BH:75:PHE:HE1	37:BH:97:LEU:CD2	2.27	0.47
37:BH:121:VAL:O	37:BH:134:ASP:CB	2.61	0.47
37:BH:146:ILE:CD1	37:BH:146:ILE:C	2.88	0.47
37:BH:194:LEU:N	37:BH:194:LEU:CD2	2.67	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:9:LYS:HD2	38:BI:112:LEU:HD23	1.96	0.47
38:BI:37:ARG:HG2	38:BI:111:GLU:O	2.14	0.47
38:BI:40:ARG:HB2	38:BI:68:GLU:OE1	2.14	0.47
38:BI:76:ILE:CG2	38:BI:142:LEU:HD13	2.44	0.47
38:BI:109:ILE:HG12	38:BI:139:LEU:HD11	1.96	0.47
39:BJ:33:TYR:CZ	39:BJ:75:LEU:HA	2.49	0.47
39:BJ:81:ILE:HG22	39:BJ:82:ARG:H	1.74	0.47
40:BK:15:ASP:HB2	40:BK:23:VAL:CB	2.44	0.47
40:BK:15:ASP:N	40:BK:20:ASP:H	2.09	0.47
40:BK:94:ARG:HH11	40:BK:94:ARG:C	2.22	0.47
40:BK:123:GLU:OE1	40:BK:134:ALA:CB	2.62	0.47
41:BL:14:ARG:CZ	41:BL:15:ASN:ND2	2.78	0.47
41:BL:114:THR:H	41:BL:119:LEU:CD2	2.26	0.47
42:BM:96:LEU:O	42:BM:100:GLY:CA	2.62	0.47
43:BN:17:ASP:O	43:BN:21:GLN:HB3	2.14	0.47
48:BS:33:THR:O	48:BS:34:LEU:C	2.56	0.47
49:BT:14:ASN:O	49:BT:14:ASN:CG	2.56	0.47
49:BT:21:VAL:HG21	49:BT:59:TRP:CE2	2.47	0.47
52:BW:62:ILE:HD11	52:BW:67:VAL:CB	2.44	0.47
53:BX:43:LEU:HB2	53:BX:55:ILE:CD1	2.44	0.47
53:BX:85:MET:CA	53:BX:88:VAL:HG23	2.39	0.47
55:CA:58:ALA:CA	55:CA:255:LEU:CD2	2.84	0.47
55:CA:129:LYS:HD3	57:CA:701:GCP:C6	2.44	0.47
55:CA:156:GLU:HG2	55:CA:156:GLU:O	2.14	0.47
1:AA:5:A:C2	1:AA:2899:G:N9	2.80	0.47
1:AA:66:C:N4	1:AA:67:U:O4	2.47	0.47
1:AA:122:G:C2	1:AA:130:C:C2	3.03	0.47
1:AA:270(M):U:C3'	1:AA:270(N):G:H4'	2.44	0.47
1:AA:345:A:H4'	1:AA:345:A:OP1	2.14	0.47
1:AA:364:C:H2'	1:AA:365:C:H6	1.62	0.47
1:AA:403:U:C4'	1:AA:404:C:OP1	2.62	0.47
1:AA:417:C:O2'	1:AA:418:G:H5'	2.14	0.47
1:AA:455:C:H5'	1:AA:456:C:OP1	2.14	0.47
1:AA:468:G:H2'	1:AA:469:G:C4'	2.43	0.47
1:AA:530:G:N2	1:AA:2021:C:H3'	2.19	0.47
1:AA:531:C:O2	18:AR:28:ARG:NE	2.48	0.47
1:AA:661:C:H2'	1:AA:662:G:O4'	2.14	0.47
1:AA:740:U:C5	1:AA:741:G:N7	2.82	0.47
1:AA:781:A:O2'	4:AD:222:ARG:CZ	2.62	0.47
1:AA:799:G:H8	1:AA:799:G:OP2	1.97	0.47
1:AA:822:U:H2'	1:AA:823:G:H8	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:851:U:O4'	26:AZ:46:ASN:ND2	2.29	0.47
1:AA:903:C:H1'	23:AW:169:GLU:OE2	2.15	0.47
1:AA:906:G:N2	1:AA:907:U:C2	2.83	0.47
1:AA:961:C:N4	1:AA:2031:A:C4	2.81	0.47
1:AA:980:A:N6	1:AA:1135:C:H4'	2.28	0.47
1:AA:1022:G:C6	1:AA:1139:G:N1	2.82	0.47
1:AA:1057:A:O2'	9:AI:38:HIS:CB	2.62	0.47
1:AA:1061:U:H6	1:AA:1061:U:P	2.38	0.47
1:AA:1152:C:OP1	18:AR:81:HIS:ND1	2.47	0.47
1:AA:1221:C:C2'	1:AA:1222:C:O5'	2.63	0.47
1:AA:1314:C:H6	1:AA:1314:C:O5'	1.96	0.47
1:AA:1350:C:C2'	1:AA:1351:C:O5'	2.63	0.47
1:AA:1359:A:C4	1:AA:1373:A:C2	3.02	0.47
1:AA:1373:A:H2'	1:AA:1374:G:H8	1.79	0.47
1:AA:1394:U:C4'	1:AA:1603:A:H4'	2.37	0.47
1:AA:1511:A:C3'	1:AA:1511:A:C8	2.98	0.47
1:AA:1566:A:HO2'	1:AA:1567:A:P	2.34	0.47
1:AA:1575:C:C4	1:AA:1576:U:N3	2.82	0.47
1:AA:1796:U:H2'	1:AA:1797:C:H6	1.80	0.47
1:AA:1799:G:O2'	1:AA:1800:C:O4'	2.31	0.47
1:AA:1818:U:C4	4:AD:156:ALA:HB2	2.49	0.47
1:AA:1889:A:O4'	1:AA:2087:G:C4'	2.62	0.47
1:AA:1916:A:H3'	1:AA:1916:A:P	2.54	0.47
1:AA:1918:A:C1'	34:BA:1408:A:H4'	2.44	0.47
1:AA:1954:G:O2'	1:AA:1955:U:C5'	2.56	0.47
1:AA:1983:C:O2'	1:AA:1984:G:C5'	2.58	0.47
1:AA:2134:A:C2	1:AA:2134:A:OP1	2.68	0.47
1:AA:2168:G:N2	1:AA:2171:A:C8	2.82	0.47
1:AA:2199:A:C2	1:AA:2225:A:C2	3.03	0.47
1:AA:2305:A:H1'	7:AG:155:MET:N	2.28	0.47
1:AA:2324:C:O2'	1:AA:2325:G:P	2.72	0.47
1:AA:2354:G:H1'	24:AX:34:GLY:O	2.14	0.47
1:AA:2437:U:H2'	1:AA:2438:U:C5	2.49	0.47
1:AA:2497:A:C8	1:AA:2497:A:C3'	2.96	0.47
1:AA:2512:C:C6	1:AA:2512:C:C3'	2.97	0.47
1:AA:2562:U:N3	1:AA:2563:U:C6	2.82	0.47
1:AA:2585:U:C2'	1:AA:2586:C:OP2	2.62	0.47
1:AA:2654:A:N1	1:AA:2665:A:H5''	2.29	0.47
1:AA:2685:G:H8	1:AA:2685:G:OP2	1.98	0.47
1:AA:2696:U:H2'	1:AA:2697:G:H8	1.79	0.47
1:AA:2728:U:H2'	1:AA:2729:G:H8	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2746:U:H5'	8:AH:139:GLN:CA	2.37	0.47
1:AA:2822:G:C8	15:AO:4:LEU:HD21	2.49	0.47
1:AA:2824:C:C4	1:AA:2825:C:C2	3.03	0.47
2:AB:7:G:C6	2:AB:8:U:N3	2.83	0.47
3:AC:124:GLY:O	3:AC:128:GLY:HA3	2.15	0.47
4:AD:23:GLU:HB3	4:AD:204:ILE:CG1	2.43	0.47
4:AD:85:ASP:CB	4:AD:87:ASN:HD21	2.24	0.47
4:AD:107:ALA:N	4:AD:108:PRO:CD	2.70	0.47
4:AD:147:LEU:O	4:AD:154:LYS:HE3	2.14	0.47
4:AD:177:LEU:CD2	4:AD:181:GLU:O	2.60	0.47
5:AE:50:GLY:N	5:AE:76:ARG:HG3	2.17	0.47
5:AE:85:ASN:O	5:AE:87:GLU:N	2.38	0.47
5:AE:97:LYS:HG3	5:AE:100:GLU:CG	2.45	0.47
6:AF:38:ARG:O	6:AF:42:ALA:HB2	2.15	0.47
6:AF:106:ARG:HH11	6:AF:106:ARG:CB	2.26	0.47
6:AF:122:LYS:HZ2	6:AF:192:LEU:HB3	1.79	0.47
6:AF:194:MET:SD	6:AF:197:ASP:HB3	2.54	0.47
7:AG:35:GLU:OE2	7:AG:36:LYS:HB3	2.14	0.47
8:AH:31:GLY:HA2	8:AH:136:ILE:HD11	1.96	0.47
8:AH:45:VAL:HG13	8:AH:50:VAL:CG1	2.44	0.47
8:AH:154:PRO:O	8:AH:155:SER:CB	2.54	0.47
10:AJ:10:LEU:CA	10:AJ:56:GLU:HG2	2.42	0.47
10:AJ:52:ILE:HD12	10:AJ:73:PRO:HB2	1.96	0.47
11:AK:86:PRO:CD	11:AK:89:LYS:HD2	2.43	0.47
12:AL:9:GLU:CB	12:AL:81:ASP:O	2.62	0.47
13:AM:47:ASP:CB	13:AM:48:PRO:HD3	2.44	0.47
13:AM:123:LEU:HD12	13:AM:130:PHE:CZ	2.49	0.47
13:AM:125:VAL:O	13:AM:130:PHE:HZ	1.98	0.47
14:AN:134:ARG:NE	14:AN:137:TYR:N	2.62	0.47
15:AO:4:LEU:O	15:AO:5:LYS:C	2.58	0.47
15:AO:54:LEU:H	15:AO:54:LEU:CD1	2.27	0.47
16:AP:19:LYS:HD3	16:AP:20:ARG:N	2.29	0.47
17:AQ:26:ASP:OD1	17:AQ:100:TYR:CE1	2.68	0.47
17:AQ:29:ARG:HG2	17:AQ:51:ARG:CB	2.44	0.47
17:AQ:31:SER:C	17:AQ:32:TYR:CD2	2.92	0.47
18:AR:50:ARG:NE	19:AS:75:PHE:HE2	2.02	0.47
18:AR:98:LEU:HD13	18:AR:101:ARG:HD2	1.97	0.47
20:AT:6:ILE:HD11	20:AT:104:THR:HA	1.97	0.47
21:AU:71:GLY:C	21:AU:72:LYS:HG3	2.38	0.47
23:AW:1:MET:HE3	23:AW:2:GLU:O	2.15	0.47
23:AW:152:ALA:HB3	23:AW:168:GLU:H	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:29:GLN:OE1	24:AX:67:VAL:HG21	2.15	0.47
24:AX:68:GLU:CB	24:AX:80:HIS:C	2.81	0.47
26:AZ:5:LYS:NZ	26:AZ:59:VAL:CG2	2.73	0.47
26:AZ:6:VAL:CG2	26:AZ:35:ARG:NH1	2.77	0.47
26:AZ:23:LEU:HD12	26:AZ:50:VAL:CG2	2.44	0.47
28:Ab:6:VAL:HA	28:Ab:7:PRO:HD2	1.54	0.47
29:Ac:7:ILE:HG23	29:Ac:8:LYS:H	1.79	0.47
29:Ac:25:LYS:HE2	31:Ae:35:GLN:CB	2.42	0.47
30:Ad:41:ARG:HD3	30:Ad:42:LEU:H	1.79	0.47
34:BA:102:G:C5	34:BA:103:C:C5	3.02	0.47
34:BA:137:C:H1'	49:BT:62:VAL:HA	1.96	0.47
34:BA:290:C:C6	34:BA:290:C:C3'	2.98	0.47
34:BA:373:A:H1'	34:BA:481:G:C1'	2.24	0.47
34:BA:390:C:H2'	34:BA:391:G:C8	2.46	0.47
34:BA:494:U:H2'	34:BA:495:A:H5'	1.96	0.47
34:BA:533:A:H3'	34:BA:534:U:H5''	1.96	0.47
34:BA:566:G:H4'	34:BA:567:G:C5'	2.43	0.47
34:BA:587:G:N2	34:BA:754:C:OP2	2.48	0.47
34:BA:721:G:H1'	34:BA:722:A:N1	2.30	0.47
34:BA:729:A:C2'	34:BA:730:G:O5'	2.62	0.47
34:BA:729:A:N6	48:BS:51:HIS:CD2	2.82	0.47
34:BA:752:G:C2'	34:BA:753:A:OP2	2.61	0.47
34:BA:761:G:H1'	50:BU:103:GLY:O	2.13	0.47
34:BA:874:G:H2'	34:BA:875:C:O5'	2.15	0.47
34:BA:896:C:N3	34:BA:897:C:C5	2.83	0.47
34:BA:904:C:H2'	34:BA:905:U:C6	2.49	0.47
34:BA:947:G:H2'	34:BA:948:C:H6	1.79	0.47
34:BA:1029:G:C4	34:BA:1032(A):G:N1	2.82	0.47
34:BA:1046:A:H2'	34:BA:1046:A:N3	2.29	0.47
34:BA:1065:U:HO2'	34:BA:1066:C:P	2.36	0.47
34:BA:1092:A:N7	34:BA:1183:A:N7	2.62	0.47
34:BA:1105:A:C2	34:BA:1106:G:C8	3.03	0.47
34:BA:1164:G:C4	34:BA:1173:G:C2	3.03	0.47
34:BA:1181:G:H2'	34:BA:1182:G:H5'	1.96	0.47
34:BA:1219:U:H2'	52:BW:34:TRP:HE1	0.99	0.47
34:BA:1335:C:H5''	34:BA:1336:C:H5'	1.95	0.47
35:BF:28:PHE:HE1	35:BF:31:TYR:C	2.22	0.47
35:BF:57:PHE:CD1	35:BF:199:TYR:HE1	2.32	0.47
35:BF:73:THR:CG2	35:BF:95:GLN:O	2.59	0.47
37:BH:27:TYR:CD2	37:BH:27:TYR:O	2.68	0.47
37:BH:120:LEU:CG	37:BH:121:VAL:N	2.77	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:43:LEU:C	38:BI:43:LEU:CD2	2.86	0.47
39:BJ:94:GLN:C	39:BJ:95:GLU:HG3	2.39	0.47
41:BL:111:ILE:CD1	41:BL:136:GLU:HA	2.44	0.47
41:BL:126:LYS:HZ1	41:BL:127:LEU:CB	2.26	0.47
44:BO:121:PRO:HB2	44:BO:125:PHE:CD1	2.49	0.47
46:BQ:14:ARG:CZ	46:BQ:42:ALA:HA	2.43	0.47
46:BQ:14:ARG:NE	46:BQ:42:ALA:HA	2.30	0.47
48:BS:75:PRO:HA	48:BS:78:TYR:CD1	2.49	0.47
48:BS:81:LEU:O	48:BS:85:LEU:HD12	2.14	0.47
49:BT:53:VAL:HA	49:BT:79:VAL:HG22	1.95	0.47
50:BU:38:ARG:HE	50:BU:38:ARG:HA	1.80	0.47
50:BU:43:LEU:HD11	50:BU:69:LYS:CB	2.45	0.47
51:BV:81:PHE:O	51:BV:82:THR:HB	2.14	0.47
52:BW:27:GLU:CG	52:BW:28:LYS:H	2.25	0.47
53:BX:36:LEU:HA	53:BX:36:LEU:HD23	1.47	0.47
55:CA:9:ALA:HA	55:CA:73:VAL:N	2.26	0.47
55:CA:131:ASP:OD2	55:CA:168:LEU:HG	2.14	0.47
55:CA:160:PHE:CE1	55:CA:162:ILE:CB	2.93	0.47
57:CA:701:GCP:O5'	57:CA:701:GCP:H8	2.14	0.47
1:AA:96:G:H4'	25:AY:43:HIS:NE2	2.29	0.47
1:AA:172:C:C2'	1:AA:173:G:C8	2.91	0.47
1:AA:265:A:H2	1:AA:281:G:O5'	1.97	0.47
1:AA:270(T):G:N3	1:AA:270(T):G:H2'	2.29	0.47
1:AA:279:C:N4	1:AA:359:A:C4	2.66	0.47
1:AA:291:C:C5	1:AA:292:C:C5	3.03	0.47
1:AA:295:G:N2	1:AA:344:G:C1'	2.78	0.47
1:AA:301:G:C8	1:AA:334:C:C2	3.03	0.47
1:AA:349:G:C6	1:AA:350:U:O4	2.68	0.47
1:AA:378:C:O2'	1:AA:379:G:C5'	2.63	0.47
1:AA:425:G:C2	1:AA:426:C:C5	3.01	0.47
1:AA:443:A:C4'	1:AA:1201:C:H5'	2.37	0.47
1:AA:477:A:O2'	1:AA:478:A:H5'	2.15	0.47
1:AA:535:C:H4'	18:AR:53:ARG:CD	2.32	0.47
1:AA:581:C:H5''	18:AR:32:PHE:CD2	2.50	0.47
1:AA:669:G:C6	1:AA:801:G:C6	3.03	0.47
1:AA:673:C:N3	1:AA:808:G:N2	2.62	0.47
1:AA:740:U:O4'	1:AA:1784:A:C6	2.67	0.47
1:AA:880:G:C6	1:AA:897:C:O2	2.66	0.47
1:AA:972:G:OP1	1:AA:974(A):C:C3'	2.61	0.47
1:AA:1024:G:N1	1:AA:1025:G:N7	2.63	0.47
1:AA:1078:U:H1'	1:AA:1088:A:N3	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1266:G:C4	20:AT:15:ARG:NH2	2.82	0.47
1:AA:1344:G:H4'	1:AA:1384:A:C2	2.49	0.47
1:AA:1424:G:OP2	1:AA:1424:G:O4'	2.32	0.47
1:AA:1426:G:H3'	1:AA:1427:A:H5''	1.96	0.47
1:AA:1518:C:N3	1:AA:1519:G:H1'	2.30	0.47
1:AA:1591:G:C6	1:AA:1592:C:C4	3.03	0.47
1:AA:1607:C:C2'	1:AA:1608:A:OP2	2.62	0.47
1:AA:1631:A:C6	1:AA:1632:A:N1	2.83	0.47
1:AA:1684:C:H2'	1:AA:1685:C:H6	1.76	0.47
1:AA:1727:U:C5	1:AA:1730:U:O4	2.68	0.47
1:AA:1727:U:H2'	1:AA:1728:G:OP1	2.15	0.47
1:AA:1729:A:C8	1:AA:1730:U:O4'	2.68	0.47
1:AA:1899:G:N2	1:AA:1902:C:N4	2.61	0.47
1:AA:1916:A:C2	1:AA:1917:U:C4	3.03	0.47
1:AA:2364:C:N4	1:AA:2365:G:C6	2.83	0.47
1:AA:2459:A:H3'	1:AA:2460:U:C6	2.50	0.47
1:AA:2485:G:O2'	1:AA:2486:G:C5'	2.62	0.47
1:AA:2505:G:O2'	1:AA:2506:U:H5''	2.14	0.47
1:AA:2554:U:C5	1:AA:2556:C:C4	3.03	0.47
1:AA:2714:G:C3'	1:AA:2715:C:H5'	2.45	0.47
1:AA:2768:C:C2'	1:AA:2769:C:H5'	2.45	0.47
1:AA:2773:C:H5''	5:AE:165:VAL:HG13	1.95	0.47
1:AA:2780:G:N2	11:AK:97:ARG:CZ	2.77	0.47
1:AA:2812:G:N2	1:AA:2889:C:C2	2.83	0.47
1:AA:2817:G:N2	1:AA:2830:G:H1'	2.29	0.47
2:AB:113:C:H2'	2:AB:114:G:C8	2.50	0.47
3:AC:25:ALA:O	3:AC:26:ALA:C	2.57	0.47
3:AC:190:ARG:O	3:AC:193:ILE:HB	2.14	0.47
4:AD:117:VAL:C	4:AD:118:VAL:HG22	2.39	0.47
4:AD:159:ALA:HA	4:AD:196:VAL:CG1	2.44	0.47
4:AD:258:LYS:CA	4:AD:261:LYS:HZ2	2.18	0.47
5:AE:5:LEU:HG	5:AE:25:VAL:CG1	2.44	0.47
5:AE:8:LYS:CE	17:AQ:3:ARG:HG3	2.44	0.47
5:AE:12:THR:HA	5:AE:21:VAL:HG23	1.96	0.47
5:AE:98:PRO:HA	5:AE:172:VAL:HG21	1.95	0.47
5:AE:176:ILE:CD1	5:AE:179:GLU:N	2.78	0.47
6:AF:132:VAL:HG23	6:AF:135:LYS:HB2	1.96	0.47
7:AG:57:ALA:HA	7:AG:67:LYS:CA	2.44	0.47
7:AG:59:GLU:CB	7:AG:152:LEU:HD13	2.45	0.47
7:AG:113:ARG:O	7:AG:114:ILE:CG2	2.62	0.47
7:AG:170:ARG:HG2	7:AG:170:ARG:HH11	1.77	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:29:PRO:CD	8:AH:30:LYS:H	2.27	0.47
8:AH:94:TYR:CD1	8:AH:95:ARG:N	2.82	0.47
10:AJ:44:ALA:CB	10:AJ:66:THR:CG2	2.88	0.47
11:AK:10:GLU:HB3	11:AK:39:ARG:HH12	1.76	0.47
11:AK:14:VAL:CG1	11:AK:138:LEU:HB3	2.29	0.47
11:AK:103:VAL:HG23	11:AK:117:PHE:HE1	1.80	0.47
12:AL:39:ILE:CD1	12:AL:59:LYS:HE3	2.44	0.47
13:AM:7:ARG:N	13:AM:8:PRO:CD	2.77	0.47
14:AN:16:ARG:HD3	14:AN:16:ARG:N	2.28	0.47
14:AN:109:VAL:HG12	14:AN:110:THR:N	2.29	0.47
14:AN:125:LEU:N	14:AN:125:LEU:HD23	2.28	0.47
15:AO:55:ALA:HB1	15:AO:79:LEU:HD21	1.94	0.47
17:AQ:55:ASN:O	17:AQ:57:PHE:CE1	2.66	0.47
17:AQ:70:VAL:CB	17:AQ:74:ARG:NH1	2.67	0.47
17:AQ:104:ASN:HA	17:AQ:108:ARG:NH1	2.29	0.47
18:AR:54:LYS:CA	18:AR:54:LYS:CE	2.92	0.47
18:AR:108:GLU:C	18:AR:111:GLU:HG2	2.39	0.47
20:AT:13:SER:OG	20:AT:16:LYS:HE3	2.14	0.47
20:AT:49:LYS:O	20:AT:50:VAL:C	2.56	0.47
21:AU:50:LYS:HZ3	21:AU:85:PRO:CG	2.28	0.47
22:AV:75:ILE:O	22:AV:75:ILE:CD1	2.62	0.47
23:AW:111:VAL:HG21	23:AW:117:LEU:HG	1.92	0.47
27:Aa:7:PRO:O	27:Aa:8:LYS:CB	2.63	0.47
27:Aa:8:LYS:CG	27:Aa:9:LEU:N	2.76	0.47
28:Ab:4:HIS:CG	28:Ab:5:PRO:CD	2.96	0.47
28:Ab:47:PRO:C	28:Ab:58:LEU:CG	2.84	0.47
28:Ab:58:LEU:HD13	28:Ab:59:GLU:N	2.29	0.47
31:Ae:54:GLU:O	31:Ae:57:ARG:N	2.48	0.47
32:Af:12:ASP:C	32:Af:13:LYS:HG3	2.40	0.47
34:BA:14:U:O2	34:BA:17:U:H5	1.98	0.47
34:BA:59:A:H1'	34:BA:354:G:C2	2.50	0.47
34:BA:73:G:C2	34:BA:74:C:C2	3.02	0.47
34:BA:89:U:C2	34:BA:90:C:C5	3.03	0.47
34:BA:148:G:C2	34:BA:175:C:C4	3.03	0.47
34:BA:209:U:OP2	34:BA:209:U:C6	2.68	0.47
34:BA:227:G:C6	34:BA:228:A:C6	3.03	0.47
34:BA:237:C:OP1	50:BU:40:LYS:CE	2.62	0.47
34:BA:258:G:C4	34:BA:259:G:N7	2.82	0.47
34:BA:524:G:H2'	34:BA:525:C:O4'	2.15	0.47
34:BA:536:C:O5'	34:BA:536:C:C6	2.68	0.47
34:BA:581:G:C6	34:BA:758:G:N7	2.83	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:611:A:C5	34:BA:612:C:C5	3.03	0.47
34:BA:644:G:H2'	34:BA:645:C:H5'	1.96	0.47
34:BA:656:C:H2'	34:BA:657:G:C5'	2.44	0.47
34:BA:691:G:O6	44:BO:26:ASN:O	2.33	0.47
34:BA:728:A:N6	34:BA:729:A:C6	2.83	0.47
34:BA:832:C:N3	34:BA:855:G:C6	2.83	0.47
34:BA:873:A:O4'	34:BA:873:A:P	2.73	0.47
34:BA:913:A:O2'	34:BA:914:A:O5'	2.32	0.47
34:BA:922:G:C2	34:BA:923:A:C4	3.02	0.47
34:BA:954:G:H21	34:BA:1227:A:H62	1.62	0.47
34:BA:995:C:O2	47:BR:4:LYS:NZ	2.47	0.47
34:BA:1011:G:C2	34:BA:1012:U:H1'	2.49	0.47
34:BA:1133:G:C6	34:BA:1142:G:C6	3.03	0.47
34:BA:1166:G:H2'	34:BA:1169:A:OP2	2.15	0.47
34:BA:1240:U:N1	40:BK:32:ARG:NH2	2.63	0.47
34:BA:1268:A:C2	34:BA:1327:C:H1'	2.50	0.47
34:BA:1305:G:C5'	54:BY:4:GLY:C	2.88	0.47
34:BA:1476:G:H2'	34:BA:1477:C:C5	2.50	0.47
35:BF:115:LEU:CD2	35:BF:149:LEU:HD22	2.36	0.47
35:BF:118:LEU:O	35:BF:119:GLU:C	2.57	0.47
35:BF:234:PRO:HB2	35:BF:238:LEU:CD2	2.45	0.47
37:BH:61:LYS:HG2	37:BH:203:VAL:HG13	1.97	0.47
37:BH:69:GLY:C	37:BH:70:ILE:HG12	2.39	0.47
38:BI:55:VAL:C	38:BI:57:LYS:N	2.71	0.47
38:BI:74:GLY:O	38:BI:115:VAL:CG1	2.60	0.47
38:BI:79:GLU:CG	38:BI:93:PRO:CD	2.89	0.47
38:BI:141:GLN:C	38:BI:142:LEU:CG	2.87	0.47
39:BJ:76:ALA:CB	39:BJ:80:ARG:CZ	2.92	0.47
41:BL:5:PRO:O	41:BL:6:ILE:O	2.32	0.47
41:BL:15:ASN:HD22	41:BL:15:ASN:H	1.61	0.47
41:BL:17:THR:CB	41:BL:18:ARG:NH2	2.77	0.47
41:BL:67:PRO:N	41:BL:76:PRO:HB3	2.29	0.47
41:BL:103:VAL:CG1	41:BL:108:GLY:HA3	2.44	0.47
41:BL:114:THR:HA	41:BL:130:GLY:O	2.15	0.47
41:BL:126:LYS:NZ	41:BL:127:LEU:CB	2.78	0.47
42:BM:27:THR:HB	42:BM:62:TYR:HD1	1.76	0.47
42:BM:55:ALA:HB1	42:BM:58:HIS:HD1	1.72	0.47
42:BM:121:ARG:HH11	42:BM:121:ARG:CG	2.26	0.47
43:BN:30:SER:HB3	43:BN:80:LYS:CG	2.37	0.47
43:BN:54:PHE:O	43:BN:55:LYS:C	2.58	0.47
44:BO:21:ILE:HG12	44:BO:83:ILE:O	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:60:ALA:O	44:BO:63:LEU:N	2.47	0.47
44:BO:114:VAL:HG23	44:BO:115:PRO:HD2	1.96	0.47
45:BP:24:VAL:HG13	45:BP:98:TYR:CZ	2.50	0.47
45:BP:42:THR:HA	45:BP:55:VAL:HG23	1.95	0.47
46:BQ:88:ARG:CA	52:BW:73:GLU:OE1	2.62	0.47
46:BQ:90:LEU:O	46:BQ:93:ARG:N	2.39	0.47
48:BS:59:MET:O	48:BS:63:ARG:HG2	2.15	0.47
48:BS:65:ARG:O	48:BS:66:LEU:C	2.57	0.47
49:BT:32:TYR:C	49:BT:34:GLU:N	2.70	0.47
49:BT:67:THR:HG22	49:BT:68:ASP:N	2.30	0.47
50:BU:61:GLU:CA	50:BU:71:PHE:CE2	2.97	0.47
50:BU:68:ARG:N	50:BU:70:ARG:NH2	2.46	0.47
51:BV:46:GLU:N	51:BV:49:LYS:NZ	2.56	0.47
51:BV:60:GLY:C	51:BV:64:ARG:NH1	2.73	0.47
51:BV:74:ARG:NH1	51:BV:81:PHE:CB	2.78	0.47
52:BW:36:ARG:HA	52:BW:71:LEU:HD13	1.97	0.47
53:BX:25:ARG:HH11	53:BX:25:ARG:CG	2.26	0.47
55:CA:51:GLU:CD	55:CA:52:ARG:H	2.22	0.47
55:CA:183:MET:SD	55:CA:187:TYR:OH	2.73	0.47
55:CA:253:LYS:HZ1	55:CA:269:GLU:HB3	1.75	0.47
55:CA:309:MET:CE	55:CA:370:ILE:HD11	2.43	0.47
55:CA:495:LYS:HA	55:CA:516:ALA:C	2.39	0.47
1:AA:4:C:N3	1:AA:2900:A:C5	2.83	0.47
1:AA:7:G:H2'	1:AA:8:A:C8	2.47	0.47
1:AA:14:A:H2	1:AA:2625:G:O2'	1.97	0.47
1:AA:120:U:H1'	1:AA:149:A:C4	2.49	0.47
1:AA:142:G:H2'	1:AA:143:C:C5	2.49	0.47
1:AA:144:C:H2'	1:AA:145:G:C5'	2.45	0.47
1:AA:162:U:O5'	1:AA:162:U:H6	1.98	0.47
1:AA:179:G:C4	1:AA:180:G:C8	3.03	0.47
1:AA:191:A:C2	1:AA:799:G:N2	2.83	0.47
1:AA:224:G:N7	1:AA:420:C:H4'	2.30	0.47
1:AA:225:A:N3	1:AA:225:A:H2'	2.29	0.47
1:AA:231:C:N4	1:AA:232:G:H22	2.09	0.47
1:AA:236:C:C2	1:AA:237:C:C5	3.03	0.47
1:AA:245:G:C6	1:AA:246:C:C5	3.03	0.47
1:AA:270(C):C:O2'	1:AA:270(D):C:C5'	2.62	0.47
1:AA:270(K):C:H5''	1:AA:270(L):U:C5	2.49	0.47
1:AA:270(K):C:N4	1:AA:270(M):U:C6	2.83	0.47
1:AA:270(X):G:H5''	1:AA:273:G:OP1	2.15	0.47
1:AA:270(Z):U:O2	1:AA:271(B):G:OP1	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:295:G:N2	1:AA:296:C:C2	2.82	0.47
1:AA:297:C:C3'	1:AA:298:G:C8	2.97	0.47
1:AA:298:G:O6	1:AA:338:G:O4'	2.32	0.47
1:AA:304:G:N2	1:AA:305:U:H1'	2.30	0.47
1:AA:341:G:C2'	1:AA:342:G:O4'	2.63	0.47
1:AA:364:C:C2	1:AA:365:C:C5	3.03	0.47
1:AA:387:U:H2'	1:AA:387:U:O2	2.13	0.47
1:AA:400:G:H3'	1:AA:400:G:H8	1.78	0.47
1:AA:493:G:O2'	20:AT:7:ALA:HB1	2.15	0.47
1:AA:495:G:H2'	1:AA:496:G:O5'	2.15	0.47
1:AA:531:C:C2'	1:AA:532:A:OP1	2.62	0.47
1:AA:539:G:C2	1:AA:540:G:C5	3.03	0.47
1:AA:641:C:C2'	1:AA:642:G:C5'	2.89	0.47
1:AA:663:G:C2'	1:AA:940:G:H4'	2.43	0.47
1:AA:673:C:O4'	6:AF:82:ILE:HG21	2.14	0.47
1:AA:679:C:O2	1:AA:680:G:C8	2.67	0.47
1:AA:689:A:C2'	1:AA:690:G:O5'	2.62	0.47
1:AA:702:G:C2	1:AA:731:C:C2	3.02	0.47
1:AA:705:A:H2	1:AA:706:A:C1'	2.27	0.47
1:AA:746:A:HO2'	1:AA:747:U:P	2.21	0.47
1:AA:774:A:C5	1:AA:775:G:C6	3.03	0.47
1:AA:775:G:C1'	1:AA:777:A:C2	2.98	0.47
1:AA:783:A:H8	4:AD:227:ASN:ND2	2.13	0.47
1:AA:815:C:O2'	1:AA:816:C:C5'	2.62	0.47
1:AA:848:G:C8	1:AA:848:G:C3'	2.98	0.47
1:AA:851:U:C5'	26:AZ:49:LYS:HD2	2.38	0.47
1:AA:878:A:C8	1:AA:898:C:N4	2.82	0.47
1:AA:898:C:H3'	1:AA:899:A:H5''	1.96	0.47
1:AA:961:C:N4	1:AA:2031:A:H1'	2.29	0.47
1:AA:966:G:C2'	1:AA:2267:A:N6	2.78	0.47
1:AA:979:G:N7	1:AA:981:A:OP2	2.47	0.47
1:AA:1004:C:H1'	1:AA:1010:A:H2'	1.96	0.47
1:AA:1019:U:H6	1:AA:1019:U:C5'	2.26	0.47
1:AA:1023:U:O4	1:AA:1024:G:H1'	2.14	0.47
1:AA:1036:G:C2	1:AA:1120:G:C2	3.02	0.47
1:AA:1046:A:C2	9:AI:11:ALA:HB3	2.47	0.47
1:AA:1062:G:C8	1:AA:1063:G:C8	3.02	0.47
1:AA:1106:G:C2'	1:AA:1107:G:C8	2.86	0.47
1:AA:1119:C:H2'	1:AA:1119:C:O2	2.13	0.47
1:AA:1137:G:H2'	1:AA:1138:G:O4'	2.15	0.47
1:AA:1153:C:N1	1:AA:1154:G:N7	2.61	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1182:A:O4'	1:AA:1182:A:OP2	2.32	0.47
1:AA:1238:G:N1	1:AA:1239:G:C5	2.82	0.47
1:AA:1264:G:H5'	28:Ab:15:ARG:HH21	1.79	0.47
1:AA:1289:C:N3	1:AA:1290:C:C5	2.83	0.47
1:AA:1296:G:C2	1:AA:1297:C:C5	3.02	0.47
1:AA:1299:G:O3'	1:AA:1300:U:C6	2.67	0.47
1:AA:1338:G:C2'	1:AA:1339:G:H5'	2.45	0.47
1:AA:1339:G:H1'	1:AA:1393:A:C2	2.50	0.47
1:AA:1428:C:O2'	1:AA:1429:G:P	2.72	0.47
1:AA:1429:G:H2'	1:AA:1430:C:O4'	2.14	0.47
1:AA:1466:G:O4'	1:AA:1545(A):A:H2	1.97	0.47
1:AA:1471:A:OP2	1:AA:1472:A:C2	2.66	0.47
1:AA:1488:G:H3'	1:AA:1489:U:C5'	2.44	0.47
1:AA:1519:G:H3'	1:AA:1520:U:C1'	2.45	0.47
1:AA:1567:A:N1	4:AD:85:ASP:HA	2.30	0.47
1:AA:1588:C:C2'	1:AA:1589:C:O5'	2.62	0.47
1:AA:1612:C:H4'	30:Ad:5:TRP:CD1	2.49	0.47
1:AA:1655:A:N6	1:AA:2005:A:C2'	2.78	0.47
1:AA:1669:A:N3	1:AA:1669:A:C2'	2.77	0.47
1:AA:1691:C:H2'	1:AA:1692:U:H5'	1.97	0.47
1:AA:1727:U:C4	1:AA:1730:U:C4	3.03	0.47
1:AA:1755:A:N7	17:AQ:98:LYS:NZ	2.63	0.47
1:AA:1775:U:C1'	4:AD:208:LYS:HZ2	2.26	0.47
1:AA:1791:A:C3'	1:AA:1792:G:H8	2.15	0.47
1:AA:1837:C:C4	1:AA:1899:G:O6	2.67	0.47
1:AA:1853:A:C1'	1:AA:2234:G:H5'	2.44	0.47
1:AA:1878:G:C6	1:AA:1879:C:C4	3.02	0.47
1:AA:1892:C:N4	1:AA:1893:C:H41	2.13	0.47
1:AA:2013:A:C6	1:AA:2014:A:C6	3.03	0.47
1:AA:2041:U:O2'	1:AA:2042:A:O4'	2.21	0.47
1:AA:2077:A:O2'	1:AA:2434:A:H4'	2.15	0.47
1:AA:2085:C:O2'	1:AA:2086:U:H5'	2.14	0.47
1:AA:2093:G:C2'	1:AA:2094:G:O5'	2.61	0.47
1:AA:2095:C:C2'	1:AA:2096:U:H5'	2.45	0.47
1:AA:2112:G:N3	1:AA:2112:G:C2'	2.77	0.47
1:AA:2126:A:C4'	1:AA:2127:G:O5'	2.62	0.47
1:AA:2133:G:O6	1:AA:2157:G:C8	2.68	0.47
1:AA:2133:G:C6	1:AA:2157:G:H1'	2.48	0.47
1:AA:2199:A:OP2	1:AA:2205:C:C5	2.67	0.47
1:AA:2250:G:O2'	1:AA:2496:C:C5'	2.63	0.47
1:AA:2279:G:O2'	1:AA:2280:G:O5'	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2287:A:N1	1:AA:2346:A:C6	2.82	0.47
1:AA:2312:U:O4'	7:AG:43:LEU:HD22	2.15	0.47
1:AA:2317:C:H2'	1:AA:2318:G:C8	2.50	0.47
1:AA:2325:G:N7	1:AA:2326:C:H5	2.13	0.47
1:AA:2350:C:HO2'	1:AA:2351:G:P	2.37	0.47
1:AA:2367:G:O6	1:AA:2382:G:O6	2.33	0.47
1:AA:2371:G:N2	1:AA:2372:G:C4	2.82	0.47
1:AA:2371:G:O2'	1:AA:2372:G:H1'	2.14	0.47
1:AA:2378:A:N3	1:AA:2378:A:C2'	2.77	0.47
1:AA:2383:G:C2	1:AA:2384:G:C4	3.03	0.47
1:AA:2393:A:C5'	13:AM:56:SER:H	2.28	0.47
1:AA:2404:C:N3	1:AA:2414:G:C2	2.83	0.47
1:AA:2405:G:O5'	1:AA:2405:G:H8	1.97	0.47
1:AA:2423:U:C6	1:AA:2425:A:C5	3.02	0.47
1:AA:2435:A:H2'	1:AA:2436:G:O5'	2.14	0.47
1:AA:2487:G:H2'	1:AA:2488:A:O5'	2.15	0.47
1:AA:2513:G:H2'	1:AA:2514:U:C5	2.50	0.47
1:AA:2528:U:OP1	32:Af:30:PRO:HG2	2.15	0.47
1:AA:2583:G:H5''	1:AA:2584:U:OP2	2.15	0.47
1:AA:2601:C:C2	1:AA:2603:G:N7	2.82	0.47
1:AA:2629:A:N7	1:AA:2896:C:O5'	2.47	0.47
1:AA:2630:G:C4	1:AA:2790:A:C2	3.02	0.47
1:AA:2659:G:H1'	1:AA:2663:G:C2	2.49	0.47
1:AA:2673:G:N3	1:AA:2674:G:N7	2.63	0.47
1:AA:2674:G:H4'	12:AL:26:LYS:CE	2.43	0.47
1:AA:2675:A:H4'	12:AL:29:ASN:CG	2.38	0.47
1:AA:2691:C:O4'	1:AA:2872:G:C6	2.67	0.47
1:AA:2740:A:C6	1:AA:2741:A:C6	3.03	0.47
1:AA:2745:C:H2'	1:AA:2746:U:H6	1.80	0.47
1:AA:2745:C:N3	1:AA:2746:U:C5	2.83	0.47
1:AA:2758:A:P	1:AA:2759:G:OP2	2.73	0.47
1:AA:2801:A:C3'	1:AA:2801:A:P	3.02	0.47
1:AA:2811:G:H2'	1:AA:2812:G:O4'	2.15	0.47
1:AA:2858:C:H5''	1:AA:2859:G:N7	2.30	0.47
1:AA:2892:A:H2'	1:AA:2893:G:C1'	2.45	0.47
2:AB:2:C:OP2	2:AB:2:C:H6	1.97	0.47
2:AB:5:C:H2'	2:AB:6:C:C5	2.50	0.47
2:AB:16:G:C5	2:AB:17:C:C5	3.02	0.47
2:AB:40:U:H1'	2:AB:45:A:N6	2.22	0.47
2:AB:45:A:C6	2:AB:46:A:C4	3.02	0.47
2:AB:48:A:OP1	16:AP:92:TYR:CB	2.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:73:A:N3	2:AB:74:U:C6	2.83	0.47
2:AB:75:G:N2	23:AW:87:ASP:OD2	2.46	0.47
2:AB:78:A:H2'	2:AB:79:C:C5'	2.44	0.47
2:AB:103:U:O2'	23:AW:72:ARG:HB2	2.15	0.47
3:AC:7:TYR:HE1	3:AC:10:LEU:HG	1.80	0.47
3:AC:56:GLN:NE2	3:AC:203:GLY:O	2.47	0.47
3:AC:175:VAL:HG21	3:AC:189:ILE:HG12	1.95	0.47
4:AD:9:TYR:CE1	4:AD:25:THR:HG21	2.48	0.47
4:AD:23:GLU:O	4:AD:204:ILE:HD11	2.15	0.47
4:AD:55:GLY:HA2	4:AD:218:ARG:HD3	1.96	0.47
4:AD:75:ILE:HD13	4:AD:99:ASP:OD1	2.15	0.47
5:AE:4:ILE:CD1	5:AE:4:ILE:C	2.88	0.47
5:AE:11:MET:C	5:AE:21:VAL:HG23	2.40	0.47
5:AE:53:PRO:O	5:AE:53:PRO:HG2	2.15	0.47
5:AE:69:LYS:O	5:AE:70:ALA:O	2.32	0.47
5:AE:100:GLU:C	5:AE:172:VAL:HG13	2.39	0.47
5:AE:149:ARG:HH21	5:AE:151:TYR:CA	2.27	0.47
5:AE:149:ARG:HB2	5:AE:150:VAL:H	1.48	0.47
5:AE:179:GLU:CB	5:AE:181:LEU:HD11	2.36	0.47
5:AE:203:LYS:O	5:AE:203:LYS:CD	2.58	0.47
6:AF:37:VAL:O	6:AF:41:LEU:HG	2.14	0.47
6:AF:74:ARG:NH2	6:AF:75:HIS:C	2.73	0.47
6:AF:80:ALA:HB1	6:AF:81:PRO:HD2	1.95	0.47
6:AF:88:VAL:O	6:AF:89:VAL:O	2.32	0.47
6:AF:123:LEU:HB2	6:AF:193:VAL:HA	1.95	0.47
6:AF:135:LYS:HB3	6:AF:138:GLU:OE2	2.15	0.47
6:AF:154:VAL:HG23	6:AF:156:LEU:CD2	2.45	0.47
7:AG:29:TRP:HB2	7:AG:31:VAL:HG23	1.97	0.47
7:AG:77:ILE:C	7:AG:83:ARG:HE	2.23	0.47
7:AG:102:PHE:HD1	7:AG:106:LEU:HD12	1.71	0.47
8:AH:8:PRO:HB3	8:AH:51:ARG:NH2	2.17	0.47
8:AH:13:LYS:CG	8:AH:15:VAL:HB	2.44	0.47
8:AH:13:LYS:HD2	8:AH:15:VAL:HA	1.95	0.47
8:AH:101:ARG:HA	8:AH:101:ARG:NE	2.29	0.47
8:AH:156:ALA:C	8:AH:157:TYR:CG	2.92	0.47
10:AJ:72:PRO:CG	10:AJ:77:LEU:CB	2.54	0.47
11:AK:4:TYR:HE2	18:AR:100:VAL:HB	1.80	0.47
11:AK:13:TRP:O	11:AK:138:LEU:CD1	2.62	0.47
11:AK:13:TRP:CD2	11:AK:51:PHE:HB2	2.50	0.47
11:AK:22:THR:CG2	11:AK:61:ARG:NH1	2.77	0.47
11:AK:26:LEU:O	11:AK:30:ILE:CG1	2.60	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:42:TRP:C	11:AK:43:THR:HG1	2.22	0.47
11:AK:42:TRP:CZ3	18:AR:71:GLN:NE2	2.82	0.47
11:AK:47:ALA:O	11:AK:48:MET:O	2.33	0.47
11:AK:87:LEU:CD2	11:AK:88:GLU:CD	2.88	0.47
11:AK:116:LEU:O	11:AK:117:PHE:C	2.56	0.47
12:AL:1:MET:HG3	12:AL:2:ILE:N	2.28	0.47
12:AL:1:MET:SD	12:AL:2:ILE:CG1	3.02	0.47
12:AL:9:GLU:O	12:AL:82:ASN:CA	2.62	0.47
12:AL:22:ILE:HB	12:AL:23:ARG:H	1.62	0.47
12:AL:31:LYS:C	12:AL:32:TYR:CD2	2.92	0.47
12:AL:64:ARG:NH1	12:AL:65:THR:H	2.12	0.47
12:AL:68:GLU:HB2	12:AL:104:ARG:CD	2.44	0.47
13:AM:70:GLN:O	13:AM:71:VAL:CG2	2.63	0.47
13:AM:78:PRO:HG3	13:AM:116:GLY:HA2	1.96	0.47
13:AM:107:LYS:O	13:AM:107:LYS:HG3	2.13	0.47
14:AN:63:LYS:O	14:AN:107:ALA:HA	2.15	0.47
14:AN:87:LYS:O	14:AN:88:GLY:O	2.33	0.47
15:AO:28:LEU:C	15:AO:28:LEU:CD1	2.88	0.47
15:AO:85:PRO:C	15:AO:87:TYR:N	2.72	0.47
16:AP:59:LYS:H	16:AP:59:LYS:CE	2.28	0.47
16:AP:95:HIS:C	16:AP:99:LYS:HB2	2.40	0.47
17:AQ:30:VAL:HG11	17:AQ:52:ILE:HD11	1.97	0.47
18:AR:37:GLU:O	18:AR:39:LEU:N	2.47	0.47
19:AS:5:VAL:N	19:AS:12:TYR:CD2	2.65	0.47
19:AS:92:THR:OG1	19:AS:93:GLU:N	2.47	0.47
20:AT:25:ARG:NH1	20:AT:74:ALA:O	2.48	0.47
20:AT:25:ARG:CZ	20:AT:74:ALA:O	2.62	0.47
20:AT:32:ALA:HA	20:AT:35:ILE:HG22	1.96	0.47
20:AT:86:LEU:HB3	20:AT:87:PRO:CD	2.44	0.47
21:AU:29:TRP:CD1	21:AU:76:ARG:HH21	2.31	0.47
21:AU:49:VAL:HG23	21:AU:50:LYS:N	2.29	0.47
22:AV:12:THR:CB	22:AV:71:LYS:HA	2.45	0.47
22:AV:74:PRO:HD2	22:AV:76:CYS:O	2.15	0.47
22:AV:83:THR:HG21	22:AV:84:ARG:NH2	2.30	0.47
23:AW:1:MET:SD	23:AW:2:GLU:N	2.88	0.47
23:AW:12:GLY:O	23:AW:13:GLU:C	2.57	0.47
23:AW:95:PRO:HG2	23:AW:131:ARG:CD	2.44	0.47
23:AW:138:GLU:C	23:AW:139:VAL:HG23	2.39	0.47
23:AW:151:HIS:CD2	23:AW:170:THR:N	2.83	0.47
24:AX:5:LYS:CG	24:AX:6:GLY:N	2.56	0.47
24:AX:25:ARG:HD2	24:AX:29:GLN:HE22	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:40:GLN:O	24:AX:57:PHE:CB	2.62	0.47
24:AX:76:GLY:O	24:AX:78:TYR:CD1	2.67	0.47
25:AY:6:GLU:O	25:AY:10:LYS:HE2	2.15	0.47
25:AY:17:GLU:O	25:AY:21:ARG:HG2	2.14	0.47
25:AY:23:LYS:NZ	25:AY:23:LYS:HB3	2.30	0.47
25:AY:33:GLN:HA	25:AY:36:ILE:HG22	1.97	0.47
25:AY:46:ARG:HE	25:AY:50:ARG:HH12	1.63	0.47
25:AY:54:ARG:CG	25:AY:54:ARG:NH1	2.78	0.47
26:AZ:32:GLN:CD	26:AZ:32:GLN:N	2.72	0.47
26:AZ:35:ARG:NH2	26:AZ:47:VAL:CG2	2.74	0.47
26:AZ:50:VAL:CG2	26:AZ:53:LEU:HD12	2.44	0.47
26:AZ:52:HIS:CG	26:AZ:53:LEU:N	2.83	0.47
27:Aa:14:ILE:HG13	27:Aa:38:LYS:O	2.14	0.47
28:Ab:10:LYS:HD2	28:Ab:15:ARG:CZ	2.44	0.47
29:Ac:12:GLU:C	29:Ac:13:CYS:SG	2.97	0.47
29:Ac:22:ALA:O	29:Ac:23:THR:CB	2.61	0.47
29:Ac:27:LYS:HB3	29:Ac:28:ARG:H	1.48	0.47
30:Ad:17:GLY:O	30:Ad:18:PHE:C	2.57	0.47
31:Ae:5:LYS:HB2	31:Ae:60:LEU:CA	2.37	0.47
31:Ae:23:VAL:CG2	31:Ae:47:LYS:O	2.51	0.47
31:Ae:26:LYS:CE	31:Ae:45:GLY:H	2.28	0.47
34:BA:20:U:H5	34:BA:916:G:N1	2.12	0.47
34:BA:25:C:H4'	34:BA:524:G:N2	2.30	0.47
34:BA:45:U:O2	34:BA:398:C:N3	2.47	0.47
34:BA:47:C:C5	34:BA:365:U:H2'	2.49	0.47
34:BA:68:G:H21	34:BA:152:A:H1'	1.78	0.47
34:BA:142:G:O2'	34:BA:196:A:C2	2.64	0.47
34:BA:152:A:N7	34:BA:153:C:C5	2.83	0.47
34:BA:160:A:O4'	34:BA:344:A:N7	2.47	0.47
34:BA:174:C:N3	34:BA:175:C:C5	2.82	0.47
34:BA:198:G:C2	34:BA:199:G:C8	3.03	0.47
34:BA:276:G:O2'	34:BA:277:C:H5'	2.14	0.47
34:BA:290:C:C6	34:BA:290:C:H3'	2.49	0.47
34:BA:293:G:H5'	34:BA:609:A:N1	2.30	0.47
34:BA:295:C:O2	34:BA:296:U:C1'	2.62	0.47
34:BA:355:C:H42	34:BA:356:A:N6	2.12	0.47
34:BA:406:G:N2	34:BA:437:U:O2	2.47	0.47
34:BA:453:A:N6	34:BA:480:U:C2	2.73	0.47
34:BA:575:G:C6	34:BA:821:G:N7	2.83	0.47
34:BA:575:G:O2'	34:BA:576:G:H5'	2.15	0.47
34:BA:592:G:O2'	34:BA:593:G:H5'	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:648:A:C2	34:BA:649:G:C8	3.03	0.47
34:BA:667:G:H4'	48:BS:51:HIS:CG	2.49	0.47
34:BA:670:G:C6	34:BA:671:G:C8	3.03	0.47
34:BA:672:U:O2	34:BA:672:U:C2'	2.63	0.47
34:BA:706:A:H4'	44:BO:22:HIS:ND1	2.30	0.47
34:BA:707:C:O2'	34:BA:708:C:C5'	2.56	0.47
34:BA:715:A:H4'	34:BA:777:A:H61	1.79	0.47
34:BA:715:A:H2'	34:BA:716:A:O4'	2.14	0.47
34:BA:738:C:OP1	39:BJ:4:TYR:OH	2.32	0.47
34:BA:760:G:N1	50:BU:105:ALA:C	2.68	0.47
34:BA:774:G:C4	34:BA:775:G:C8	3.02	0.47
34:BA:778:G:C2	34:BA:779:C:C6	3.02	0.47
34:BA:791:G:C8	34:BA:792:A:C8	3.03	0.47
34:BA:792:A:C2	34:BA:794:A:N1	2.83	0.47
34:BA:817:C:C6	34:BA:819:A:C4'	2.98	0.47
34:BA:837:G:N1	34:BA:838:G:C5	2.83	0.47
34:BA:843:U:H3'	34:BA:848:C:C4'	2.44	0.47
34:BA:849:C:O2'	34:BA:850:U:H5'	2.14	0.47
34:BA:859:A:H2'	34:BA:860:A:C4'	2.44	0.47
34:BA:873:A:H2'	34:BA:873:A:N3	2.28	0.47
34:BA:888:G:H3'	34:BA:889:A:C8	2.50	0.47
34:BA:914:A:H2'	34:BA:915:A:N7	2.30	0.47
34:BA:949:A:H2'	34:BA:950:U:C5	2.48	0.47
34:BA:977:A:H2'	34:BA:977:A:N3	2.30	0.47
34:BA:993:G:N1	34:BA:1046:A:C6	2.83	0.47
34:BA:997:U:C4	34:BA:998:G:N7	2.83	0.47
34:BA:1120:G:N1	34:BA:1154:G:C2	2.83	0.47
34:BA:1138:G:C2	34:BA:1140:C:C5	3.02	0.47
34:BA:1147:C:C2	34:BA:1148:U:C5	3.02	0.47
34:BA:1157:A:N6	34:BA:1180:A:C6	2.83	0.47
34:BA:1173:G:C2'	34:BA:1174:G:H5''	2.45	0.47
34:BA:1206:G:H2'	34:BA:1207:G:C8	2.49	0.47
34:BA:1237:C:C4'	34:BA:1334:G:N2	2.76	0.47
34:BA:1239:A:H4'	34:BA:1240:U:O5'	2.15	0.47
34:BA:1259:C:O2'	34:BA:1283:G:N2	2.43	0.47
34:BA:1273:G:C3'	34:BA:1274:G:H8	2.26	0.47
34:BA:1276:G:H1'	34:BA:1282:C:O2'	2.15	0.47
34:BA:1277:C:O2'	34:BA:1279:A:H8	1.97	0.47
34:BA:1301:U:O4	34:BA:1303:C:C2	2.68	0.47
34:BA:1314:C:H42	34:BA:1323:G:H1	1.60	0.47
34:BA:1353:G:OP2	54:BY:3:LYS:NZ	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1382:C:H2'	34:BA:1383:C:C5	2.50	0.47
34:BA:1402:C:C5	34:BA:1403:C:C5	3.03	0.47
34:BA:1475:G:C2'	34:BA:1476:G:O5'	2.63	0.47
34:BA:1533:C:H2'	34:BA:1534:A:O5'	2.15	0.47
34:BA:1539:C:O5'	34:BA:1539:C:H6	1.96	0.47
35:BF:32:ILE:O	35:BF:32:ILE:CG2	2.61	0.47
35:BF:44:LEU:HD23	35:BF:44:LEU:H	1.79	0.47
35:BF:46:LYS:O	35:BF:47:THR:C	2.58	0.47
35:BF:73:THR:HA	35:BF:94:ASN:HA	1.96	0.47
35:BF:101:MET:HA	35:BF:104:ASN:OD1	2.15	0.47
35:BF:145:LEU:O	35:BF:149:LEU:HB3	2.14	0.47
35:BF:168:THR:HG21	35:BF:192:SER:HA	1.96	0.47
36:BG:5:ILE:HD13	36:BG:10:PHE:CE2	2.49	0.47
36:BG:29:TYR:CD1	47:BR:36:PHE:HZ	2.32	0.47
36:BG:33:LEU:CD2	36:BG:36:ASP:OD1	2.63	0.47
36:BG:85:ARG:HH21	36:BG:89:GLU:CA	2.28	0.47
36:BG:122:GLU:O	36:BG:125:GLU:N	2.48	0.47
36:BG:186:PHE:CA	36:BG:198:VAL:O	2.59	0.47
37:BH:14:ARG:HD3	37:BH:15:GLU:OE1	2.14	0.47
37:BH:64:LEU:O	37:BH:67:ILE:HG13	2.14	0.47
37:BH:78:LEU:HB3	37:BH:93:PHE:CE2	2.50	0.47
37:BH:88:VAL:HG12	37:BH:91:SER:H	1.80	0.47
37:BH:96:LEU:O	37:BH:97:LEU:C	2.58	0.47
37:BH:125:HIS:CB	37:BH:152:SER:HB2	2.36	0.47
37:BH:144:ASP:HA	37:BH:184:LYS:HZ3	1.79	0.47
37:BH:155:LEU:CB	37:BH:158:ILE:HG12	2.33	0.47
37:BH:191:ARG:CD	37:BH:192:GLU:N	2.69	0.47
37:BH:205:GLU:OE1	38:BI:100:VAL:HB	2.14	0.47
38:BI:26:PHE:N	38:BI:26:PHE:HD1	2.08	0.47
38:BI:41:VAL:O	38:BI:67:VAL:O	2.33	0.47
38:BI:47:LYS:O	38:BI:57:LYS:HE2	2.15	0.47
38:BI:48:ALA:HB1	38:BI:53:LEU:CD1	2.40	0.47
38:BI:59:GLY:CA	38:BI:63:ARG:HH21	2.27	0.47
38:BI:95:ALA:C	38:BI:96:PRO:O	2.53	0.47
38:BI:121:LYS:CE	38:BI:122:GLU:N	2.77	0.47
40:BK:95:ARG:O	40:BK:97:GLN:N	2.47	0.47
40:BK:106:GLN:NE2	40:BK:109:ASN:ND2	2.62	0.47
41:BL:6:ILE:CD1	41:BL:85:ARG:CZ	2.93	0.47
41:BL:10:LEU:O	41:BL:83:ILE:HD13	2.14	0.47
41:BL:35:ILE:C	41:BL:37:ARG:N	2.68	0.47
41:BL:63:LEU:HB2	41:BL:65:TYR:HE1	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:63:LEU:CG	41:BL:65:TYR:HE1	2.27	0.47
41:BL:82:HIS:CD2	41:BL:138:TRP:NE1	2.83	0.47
41:BL:87:SER:HB3	41:BL:93:VAL:N	2.30	0.47
41:BL:101:PRO:O	41:BL:102:ARG:HG3	2.14	0.47
41:BL:122:ARG:O	41:BL:125:ARG:HB3	2.14	0.47
42:BM:4:TYR:HB3	42:BM:87:GLN:HB2	1.95	0.47
42:BM:7:THR:HG21	42:BM:9:ARG:NH1	2.30	0.47
42:BM:10:ARG:NH2	42:BM:75:ASP:CG	2.72	0.47
42:BM:22:GLY:O	42:BM:58:HIS:O	2.33	0.47
43:BN:9:ARG:O	43:BN:9:ARG:HG3	2.14	0.47
43:BN:34:VAL:CA	43:BN:74:ILE:HG12	2.40	0.47
43:BN:51:ARG:HB2	43:BN:59:SER:C	2.39	0.47
43:BN:56:HIS:O	43:BN:58:ASP:N	2.42	0.47
44:BO:23:ALA:HB1	44:BO:88:GLY:CA	2.45	0.47
45:BP:53:ARG:CZ	45:BP:92:ASP:OD2	2.62	0.47
45:BP:85:ILE:HD12	45:BP:99:HIS:O	2.15	0.47
45:BP:111:LYS:O	45:BP:112:ASP:C	2.57	0.47
46:BQ:5:ALA:HB1	46:BQ:67:GLU:HG2	0.55	0.47
46:BQ:108:ARG:NH2	46:BQ:111:LYS:HD3	2.30	0.47
47:BR:23:ARG:CD	47:BR:30:ALA:HB2	2.44	0.47
48:BS:79:ARG:O	48:BS:80:ALA:C	2.57	0.47
49:BT:10:GLY:HA3	49:BT:14:ASN:O	2.14	0.47
49:BT:26:ARG:CD	49:BT:31:LYS:HZ3	2.28	0.47
50:BU:5:VAL:O	50:BU:6:LEU:HB3	2.15	0.47
50:BU:60:ILE:HD13	50:BU:62:SER:CB	2.45	0.47
50:BU:65:ILE:CG2	50:BU:69:LYS:HD2	2.40	0.47
50:BU:104:LYS:O	50:BU:105:ALA:C	2.57	0.47
51:BV:22:VAL:C	51:BV:24:ALA:N	2.71	0.47
51:BV:43:PHE:CD2	51:BV:56:THR:HG22	2.50	0.47
52:BW:9:VAL:CG1	52:BW:41:VAL:CB	2.93	0.47
52:BW:22:LEU:HA	52:BW:25:LYS:HZ1	1.79	0.47
52:BW:68:GLY:O	52:BW:69:HIS:CG	2.67	0.47
53:BX:11:SER:O	53:BX:12:ALA:HB2	2.13	0.47
53:BX:60:GLU:OE1	53:BX:81:LYS:HD3	2.15	0.47
55:CA:2:ILE:CD1	55:CA:266:ASP:OD2	2.61	0.47
55:CA:84:GLU:C	55:CA:86:GLU:N	2.73	0.47
55:CA:122:LYS:NZ	55:CA:158:LEU:O	2.45	0.47
55:CA:180:ALA:HB3	55:CA:182:ASP:N	2.29	0.47
55:CA:205:PHE:HE1	55:CA:226:ILE:CG2	2.21	0.47
55:CA:217:TYR:C	55:CA:219:GLY:N	2.73	0.47
55:CA:370:ILE:CB	55:CA:565:LEU:CD2	2.60	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:382:VAL:H	55:CA:578:VAL:H	1.63	0.47
55:CA:427:LYS:HA	55:CA:427:LYS:HD3	1.59	0.47
55:CA:446:ARG:HH11	55:CA:480:VAL:HG12	1.80	0.47
55:CA:527:HIS:CE1	55:CA:529:ARG:HB2	2.50	0.47
1:AA:60:G:N7	1:AA:63:U:C4	2.82	0.47
1:AA:209:C:C5'	1:AA:681:G:H4'	2.41	0.47
1:AA:215:G:C4'	1:AA:216:A:H4'	2.44	0.47
1:AA:427:U:O2'	1:AA:428:A:C1'	2.62	0.47
1:AA:466:A:C2	1:AA:796:C:O4'	2.68	0.47
1:AA:511:U:OP2	1:AA:512:G:C5	2.68	0.47
1:AA:531:C:H3'	1:AA:532:A:C1'	2.45	0.47
1:AA:531:C:C2	1:AA:532:A:O2'	2.66	0.47
1:AA:580:C:N4	1:AA:581:C:N4	2.63	0.47
1:AA:661:C:C5'	13:AM:15:ARG:HH21	2.26	0.47
1:AA:685:A:N3	1:AA:688:U:N3	2.62	0.47
1:AA:704:G:N3	1:AA:704:G:C2'	2.78	0.47
1:AA:729:G:O2'	1:AA:730:C:O3'	2.29	0.47
1:AA:730:C:C5'	1:AA:761:A:OP1	2.63	0.47
1:AA:818:G:H21	1:AA:1189:A:H62	1.63	0.47
1:AA:822:U:OP2	1:AA:945:A:C3'	2.63	0.47
1:AA:909:A:O2'	1:AA:911:A:OP2	2.28	0.47
1:AA:949:C:N3	1:AA:950:G:N7	2.62	0.47
1:AA:962:G:H21	1:AA:2250:G:N2	2.12	0.47
1:AA:1042:G:N2	1:AA:1113:U:C2	2.73	0.47
1:AA:1142(A):A:H3'	1:AA:1143:A:H5'	1.94	0.47
1:AA:1248:G:O2'	1:AA:1249:U:P	2.73	0.47
1:AA:1265:A:H1'	1:AA:1267:U:N3	2.28	0.47
1:AA:1339:G:O4'	1:AA:1393:A:C2	2.68	0.47
1:AA:1420:U:O2'	1:AA:1421:G:P	2.73	0.47
1:AA:1583:A:H4'	1:AA:1583:A:OP1	2.15	0.47
1:AA:1645:G:OP2	1:AA:1645:G:H8	1.97	0.47
1:AA:1650:G:C2	1:AA:1651:G:C1'	2.98	0.47
1:AA:1684:C:C2	1:AA:1685:C:C5	3.03	0.47
1:AA:1799:G:O2'	1:AA:1800:C:C4'	2.63	0.47
1:AA:1847:A:N6	1:AA:1890:A:OP2	2.48	0.47
1:AA:1891:G:C5	1:AA:1892:C:C5	3.03	0.47
1:AA:1905:C:N4	1:AA:1930:G:C2	2.82	0.47
1:AA:1924:C:N1	1:AA:1925:C:C5	2.83	0.47
1:AA:2000:G:OP2	15:AO:2:ARG:CD	2.63	0.47
1:AA:2011:U:H3'	1:AA:2012:G:H8	1.80	0.47
1:AA:2067:G:C2	1:AA:2069:G:N9	2.83	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2128:C:C4	1:AA:2129:C:C5	3.03	0.47
1:AA:2433:A:N3	1:AA:2433:A:C2'	2.76	0.47
1:AA:2546:U:O4'	1:AA:2565:A:C2	2.68	0.47
1:AA:2562:U:H2'	1:AA:2563:U:C5'	2.45	0.47
1:AA:2813:A:O2'	1:AA:2814:C:H5'	2.14	0.47
1:AA:2839:G:C5	1:AA:2840:C:C5	3.02	0.47
2:AB:37:C:N3	2:AB:48:A:O2'	2.47	0.47
2:AB:104:A:C3'	2:AB:105:G:O4'	2.63	0.47
3:AC:54:SER:CB	3:AC:57:ASN:HD22	2.28	0.47
3:AC:64:LEU:HB3	3:AC:188:ASN:HD21	1.74	0.47
3:AC:64:LEU:CB	3:AC:188:ASN:ND2	2.73	0.47
3:AC:171:ILE:HD13	3:AC:196:LEU:HD11	1.95	0.47
3:AC:200:LYS:HZ2	3:AC:204:ALA:HB3	1.76	0.47
4:AD:159:ALA:HB1	4:AD:198:ASN:O	2.14	0.47
5:AE:54:GLN:OE1	5:AE:56:PRO:HD2	2.15	0.47
6:AF:18:ARG:CG	6:AF:19:GLU:N	2.78	0.47
7:AG:14:GLU:O	7:AG:17:PRO:HG2	2.15	0.47
7:AG:91:ARG:HH11	7:AG:91:ARG:CG	2.25	0.47
7:AG:123:ASN:ND2	7:AG:126:ASP:OD2	2.48	0.47
7:AG:163:ALA:O	7:AG:164:GLU:C	2.57	0.47
9:AI:152:VAL:O	9:AI:155:GLY:CA	2.62	0.47
11:AK:38:HIS:C	11:AK:48:MET:HE2	2.39	0.47
12:AL:6:THR:HA	12:AL:7:TYR:CE1	2.49	0.47
12:AL:68:GLU:OE2	12:AL:76:ALA:CB	2.42	0.47
13:AM:13:ASN:O	13:AM:14:LYS:C	2.57	0.47
13:AM:33:ARG:O	13:AM:35:HIS:N	2.48	0.47
13:AM:40:SER:O	13:AM:40:SER:OG	2.28	0.47
13:AM:59:LEU:HD23	31:Ae:25:MET:HE2	1.97	0.47
13:AM:138:LEU:HD11	13:AM:145:PRO:HG3	1.97	0.47
14:AN:51:ARG:HD3	14:AN:52:VAL:HG23	1.97	0.47
14:AN:68:ILE:CD1	14:AN:97:VAL:HG13	2.45	0.47
15:AO:67:LEU:HD21	15:AO:71:GLN:HA	1.97	0.47
15:AO:87:TYR:N	15:AO:87:TYR:CD1	2.83	0.47
15:AO:96:ARG:CZ	15:AO:117:VAL:HG23	2.44	0.47
15:AO:96:ARG:HH21	15:AO:117:VAL:HG23	1.80	0.47
16:AP:3:ARG:CG	16:AP:4:LEU:N	2.57	0.47
16:AP:106:ARG:NH1	16:AP:110:LEU:CB	2.63	0.47
17:AQ:92:GLY:HA2	17:AQ:93:ARG:NH2	2.29	0.47
18:AR:16:LYS:HG2	18:AR:17:ILE:N	2.27	0.47
18:AR:67:ALA:C	18:AR:71:GLN:CD	2.83	0.47
18:AR:84:LYS:NZ	18:AR:90:VAL:HG11	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:18:ARG:HH11	20:AT:18:ARG:CG	2.28	0.47
23:AW:36:LYS:HB3	23:AW:38:TYR:CE1	2.50	0.47
23:AW:102:LEU:HA	23:AW:137:ILE:O	2.15	0.47
23:AW:107:THR:OG1	23:AW:141:VAL:O	2.29	0.47
23:AW:118:GLN:CD	23:AW:172:ALA:HB1	2.39	0.47
24:AX:37:LEU:CD2	24:AX:60:PHE:HA	2.43	0.47
24:AX:74:ARG:C	24:AX:76:GLY:N	2.71	0.47
25:AY:25:ARG:HG3	25:AY:25:ARG:NH1	2.22	0.47
25:AY:45:ILE:HD12	25:AY:46:ARG:N	2.30	0.47
27:Aa:33:VAL:CG1	27:Aa:35:VAL:CG2	2.92	0.47
27:Aa:42:PHE:O	27:Aa:61:ARG:NH2	2.48	0.47
27:Aa:61:ARG:O	27:Aa:62:ARG:C	2.56	0.47
28:Ab:50:GLY:O	28:Ab:57:VAL:HG22	2.14	0.47
31:Ae:26:LYS:C	31:Ae:28:GLY:H	2.23	0.47
31:Ae:58:ILE:HD12	31:Ae:59:LYS:H	1.79	0.47
32:Af:19:ARG:HG3	32:Af:22:ARG:HB2	1.96	0.47
34:BA:19:C:C2	34:BA:20:U:C5	3.03	0.47
34:BA:47:C:C5	34:BA:365:U:C2	3.03	0.47
34:BA:59:A:H61	34:BA:331:G:H1'	1.80	0.47
34:BA:95:G:N2	34:BA:96:G:H1'	2.29	0.47
34:BA:122:G:H8	34:BA:122:G:O5'	1.97	0.47
34:BA:186(B):C:C2	34:BA:186(C):G:C8	3.03	0.47
34:BA:258:G:C5	34:BA:259:G:N7	2.83	0.47
34:BA:332:G:O2'	34:BA:333:G:C5'	2.63	0.47
34:BA:355:C:H2'	34:BA:356:A:C8	2.50	0.47
34:BA:376:G:OP1	49:BT:6:LEU:CD1	2.62	0.47
34:BA:408:A:N6	34:BA:409:G:O6	2.48	0.47
34:BA:517:G:N7	34:BA:531:U:C2	2.82	0.47
34:BA:528:C:O4'	34:BA:535:A:C6	2.68	0.47
34:BA:623:C:H2'	34:BA:624:C:H6	1.79	0.47
34:BA:933:G:H8	34:BA:933:G:O5'	1.98	0.47
34:BA:938:A:O2'	34:BA:1376:U:H4'	2.15	0.47
34:BA:949:A:OP1	46:BQ:101:GLN:OE1	2.33	0.47
34:BA:964:A:C2	34:BA:965:A:N7	2.83	0.47
34:BA:993:G:O6	34:BA:1046:A:N6	2.48	0.47
34:BA:1074:G:O2'	34:BA:1075:C:H5'	2.14	0.47
34:BA:1185:G:H2'	34:BA:1186:G:C5'	2.45	0.47
34:BA:1188:A:H2'	34:BA:1188:A:N3	2.30	0.47
34:BA:1188:A:C2	34:BA:1189:C:C2	3.03	0.47
34:BA:1224:G:O6	34:BA:1322:C:H4'	2.14	0.47
34:BA:1240:U:C2	40:BK:32:ARG:NE	2.83	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1259:C:C2	34:BA:1283:G:H1'	2.49	0.47
34:BA:1309:G:N7	34:BA:1330:U:N3	2.62	0.47
34:BA:1319:A:H61	34:BA:1361:G:H1'	1.80	0.47
34:BA:1351:U:C2	34:BA:1352:C:C5	3.03	0.47
34:BA:1489:G:C2	34:BA:1490:C:C2	3.03	0.47
34:BA:1513:A:C2	34:BA:1523:G:C6	3.03	0.47
35:BF:23:ARG:HB2	35:BF:23:ARG:CZ	2.44	0.47
35:BF:104:ASN:O	35:BF:107:THR:HB	2.15	0.47
35:BF:219:VAL:HA	35:BF:222:ILE:CG1	2.45	0.47
35:BF:230:VAL:HG12	35:BF:231:GLU:N	2.29	0.47
36:BG:148:GLY:HA3	36:BG:172:ARG:O	2.14	0.47
37:BH:17:VAL:O	37:BH:19:LEU:CD2	2.63	0.47
40:BK:38:LEU:CA	40:BK:41:ARG:HG3	2.45	0.47
40:BK:152:ALA:C	40:BK:154:TYR:H	2.22	0.47
41:BL:39:LEU:HB3	41:BL:45:ILE:CG2	2.38	0.47
41:BL:114:THR:HB	41:BL:129:VAL:HG13	1.96	0.47
42:BM:5:TYR:OH	42:BM:16:ARG:HG3	2.14	0.47
42:BM:37:PHE:HB3	42:BM:40:LEU:HB2	1.96	0.47
42:BM:108:VAL:O	42:BM:108:VAL:HG23	2.15	0.47
44:BO:31:THR:OG1	44:BO:42:TRP:CB	2.63	0.47
46:BQ:22:ILE:HG22	46:BQ:23:TYR:H	1.80	0.47
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:CD1	2.98	0.47
46:BQ:78:ILE:CA	46:BQ:81:LEU:CD1	2.86	0.47
48:BS:18:PHE:C	48:BS:20:GLY:H	2.23	0.47
51:BV:74:ARG:H	51:BV:74:ARG:CD	2.27	0.47
51:BV:86:VAL:O	51:BV:87:ARG:CB	2.59	0.47
52:BW:7:LYS:NZ	52:BW:7:LYS:C	2.73	0.47
52:BW:30:LEU:HA	52:BW:48:THR:O	2.14	0.47
52:BW:30:LEU:N	52:BW:48:THR:O	2.48	0.47
52:BW:70:LYS:O	52:BW:71:LEU:C	2.57	0.47
53:BX:49:ALA:O	53:BX:53:LEU:HG	2.14	0.47
53:BX:98:PRO:O	53:BX:99:LEU:O	2.32	0.47
55:CA:51:GLU:OE1	55:CA:52:ARG:N	2.47	0.47
55:CA:73:VAL:HG13	55:CA:88:VAL:HG13	1.68	0.47
55:CA:374:ARG:NH2	55:CA:585:ILE:HG12	2.30	0.47
55:CA:514:HIS:HA	55:CA:515:GLY:C	2.39	0.47
1:AA:6:A:N1	1:AA:2897:U:N1	2.58	0.47
1:AA:9:U:O2	1:AA:9:U:C2'	2.62	0.47
1:AA:94:G:O2'	25:AY:39:LEU:HD22	2.14	0.47
1:AA:153:C:H2'	1:AA:154:G:C8	2.50	0.47
1:AA:194:G:H2'	1:AA:195:A:H8	1.76	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:221:A:C2'	1:AA:222:A:OP2	2.63	0.47
1:AA:233:A:C5	1:AA:234:C:C5	3.03	0.47
1:AA:243:U:OP2	31:Ae:7:HIS:NE2	2.48	0.47
1:AA:270(G):C:H2'	1:AA:270(H):C:C5	2.48	0.47
1:AA:273:G:C4	1:AA:273(A):G:N7	2.83	0.47
1:AA:278:A:O2'	1:AA:279:C:C1'	2.63	0.47
1:AA:295:G:H1'	1:AA:345:A:C2	2.50	0.47
1:AA:457:A:C1'	1:AA:459:U:N3	2.74	0.47
1:AA:467:G:HO2'	1:AA:796:C:HO2'	1.62	0.47
1:AA:487:C:H3'	1:AA:487:C:H6	1.80	0.47
1:AA:583:G:H2'	1:AA:584:C:O5'	2.14	0.47
1:AA:598:G:O2'	13:AM:14:LYS:HE3	2.15	0.47
1:AA:653:A:C3'	1:AA:654:A:H4'	2.45	0.47
1:AA:669:G:C5	1:AA:801:G:C6	3.03	0.47
1:AA:703:U:C3'	1:AA:704:G:O4'	2.63	0.47
1:AA:783:A:H2	1:AA:1779:U:C4'	2.27	0.47
1:AA:949:C:H2'	1:AA:950:G:C8	2.34	0.47
1:AA:1056:G:P	9:AI:34:ALA:H	2.37	0.47
1:AA:1061:U:H3	10:AJ:11:GLN:NE2	2.00	0.47
1:AA:1313:U:C2	1:AA:1314:C:C5	3.02	0.47
1:AA:1343:G:O6	1:AA:1404:C:C4	2.68	0.47
1:AA:1381:G:O6	1:AA:1382:G:C6	2.67	0.47
1:AA:1385:G:C6	1:AA:1386:C:C4	3.03	0.47
1:AA:1511:A:H3'	1:AA:1512:G:H5''	1.95	0.47
1:AA:1513:C:H2'	1:AA:1514:U:H5	1.79	0.47
1:AA:1650:G:O2'	1:AA:1651:G:C5'	2.63	0.47
1:AA:1685:C:C2'	1:AA:1686:C:O5'	2.63	0.47
1:AA:1699:G:C2'	1:AA:1700:A:OP1	2.62	0.47
1:AA:1703:G:N2	1:AA:1704:G:C1'	2.78	0.47
1:AA:1816:G:O3'	1:AA:1817:G:C8	2.68	0.47
1:AA:1827:C:H5'	1:AA:1971:A:H4'	1.97	0.47
1:AA:1844:C:N3	1:AA:1845:G:N7	2.62	0.47
1:AA:2040:C:H4'	11:AK:72:TYR:CE1	2.50	0.47
1:AA:2051:A:N3	1:AA:2614:A:N6	2.62	0.47
1:AA:2081:C:C2'	1:AA:2082:A:H5'	2.44	0.47
1:AA:2298:A:C2'	1:AA:2299:G:H8	2.27	0.47
1:AA:2304:G:P	7:AG:132:ASN:HD21	2.38	0.47
1:AA:2325:G:N7	1:AA:2326:C:C5	2.83	0.47
1:AA:2394:C:H5'	31:Ae:12:LYS:NZ	2.29	0.47
1:AA:2535:G:H5'	1:AA:2536:G:OP2	2.15	0.47
1:AA:2588:G:O6	1:AA:2589:A:C6	2.68	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2636:U:O2'	5:AE:79:ARG:NH1	2.48	0.47
1:AA:2642:G:C6	1:AA:2643:G:C5	3.03	0.47
1:AA:2781:A:C2'	1:AA:2782:G:O2'	2.57	0.47
1:AA:2805:G:C3'	1:AA:2807:G:C4'	2.93	0.47
1:AA:2818:G:H4'	1:AA:2837:G:C4'	2.43	0.47
1:AA:2851:A:H2'	1:AA:2852:G:O5'	2.15	0.47
1:AA:2857:G:O5'	1:AA:2857:G:H8	1.97	0.47
2:AB:24:G:C5'	2:AB:25:A:H5'	2.45	0.47
2:AB:50:G:H5''	16:AP:61:ASN:HA	1.97	0.47
2:AB:52:A:OP1	2:AB:52:A:H4'	2.15	0.47
2:AB:85:G:C4	2:AB:92:G:C2	3.02	0.47
3:AC:75:LEU:HD21	3:AC:99:ILE:CG2	2.45	0.47
4:AD:177:LEU:CD2	4:AD:181:GLU:C	2.88	0.47
5:AE:82:ARG:NE	5:AE:82:ARG:HA	2.30	0.47
5:AE:113:PHE:HB3	5:AE:158:GLY:HA2	1.97	0.47
6:AF:75:HIS:NE2	6:AF:77:ASP:O	2.48	0.47
6:AF:119:ARG:HD3	6:AF:120:GLU:OE1	2.14	0.47
6:AF:157:VAL:O	6:AF:157:VAL:CG2	2.62	0.47
6:AF:182:ASN:ND2	6:AF:185:ASP:CG	2.67	0.47
7:AG:74:LYS:O	7:AG:75:LYS:CB	2.63	0.47
7:AG:77:ILE:C	7:AG:83:ARG:NE	2.73	0.47
7:AG:135:LEU:HD13	7:AG:137:GLU:H	1.77	0.47
8:AH:9:ILE:O	8:AH:50:VAL:O	2.33	0.47
8:AH:26:VAL:HG21	8:AH:35:VAL:HG21	1.97	0.47
8:AH:85:LYS:O	8:AH:133:VAL:O	2.33	0.47
10:AJ:4:VAL:CG2	33:Ag:333:UNK:CB	2.93	0.47
12:AL:31:LYS:O	12:AL:32:TYR:CG	2.68	0.47
13:AM:49:ARG:HA	13:AM:52:GLU:CG	2.43	0.47
14:AN:86:GLY:C	14:AN:88:GLY:N	2.70	0.47
14:AN:119:ARG:O	14:AN:123:HIS:HB3	2.15	0.47
14:AN:137:TYR:HB3	14:AN:138:ASP:H	1.49	0.47
15:AO:53:HIS:CD2	15:AO:56:LYS:HZ1	2.32	0.47
15:AO:55:ALA:HA	15:AO:80:PHE:HD1	1.74	0.47
16:AP:62:LYS:O	16:AP:63:THR:C	2.57	0.47
16:AP:62:LYS:CB	16:AP:65:VAL:CG1	2.88	0.47
17:AQ:64:ARG:CZ	17:AQ:77:PRO:CA	2.92	0.47
17:AQ:110:ILE:O	17:AQ:111:ARG:C	2.57	0.47
18:AR:8:VAL:N	18:AR:11:ARG:NH2	2.62	0.47
18:AR:54:LYS:HA	18:AR:54:LYS:CE	2.45	0.47
20:AT:25:ARG:HA	20:AT:71:VAL:HG21	1.95	0.47
21:AU:48:LYS:C	21:AU:49:VAL:HG13	2.39	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:6:LYS:HA	23:AW:37:VAL:HG13	1.97	0.47
23:AW:111:VAL:HA	23:AW:116:VAL:O	2.15	0.47
23:AW:125:LEU:HD22	23:AW:127:LYS:HE2	1.97	0.47
24:AX:21:LEU:HA	24:AX:39:ARG:HB2	1.96	0.47
24:AX:27:GLU:CB	24:AX:69:PHE:CE2	2.97	0.47
26:AZ:39:ASP:CG	26:AZ:44:ARG:HD3	2.39	0.47
26:AZ:52:HIS:ND1	26:AZ:53:LEU:HG	2.29	0.47
27:Aa:24:THR:O	27:Aa:25:TYR:CD1	2.66	0.47
27:Aa:58:ARG:C	27:Aa:62:ARG:CZ	2.88	0.47
31:Ae:5:LYS:HG2	31:Ae:7:HIS:HA	1.97	0.47
33:Ag:28:UNK:CB	33:Ag:127:UNK:CB	2.93	0.47
34:BA:68:G:H8	34:BA:68:G:O5'	1.98	0.47
34:BA:375:U:O3'	49:BT:6:LEU:HD11	2.15	0.47
34:BA:377:G:OP1	49:BT:3:LYS:HD2	2.15	0.47
34:BA:410:G:N3	34:BA:432:A:C6	2.83	0.47
34:BA:519:C:O2'	34:BA:520:A:H5'	2.14	0.47
34:BA:560:U:C2'	34:BA:561:U:OP2	2.63	0.47
34:BA:592:G:H2'	34:BA:593:G:C5'	2.45	0.47
34:BA:593:G:C6	34:BA:647:C:N3	2.83	0.47
34:BA:728:A:C6	34:BA:729:A:C5	3.03	0.47
34:BA:766:A:C8	34:BA:814:A:N6	2.82	0.47
34:BA:767:A:C6	34:BA:768:A:C5	3.03	0.47
34:BA:812:C:C2'	34:BA:813:U:OP2	2.62	0.47
34:BA:817:C:O2'	34:BA:818:G:OP2	2.30	0.47
34:BA:830:G:C6	34:BA:857:C:C4	3.03	0.47
34:BA:867:G:N3	34:BA:868:C:C5	2.83	0.47
34:BA:877:C:H2'	34:BA:878:G:C8	2.50	0.47
34:BA:915:A:C2'	34:BA:916:G:C5'	2.84	0.47
34:BA:960:U:O2'	34:BA:961:U:P	2.72	0.47
34:BA:981:U:C6	34:BA:982:U:C5	3.03	0.47
34:BA:994:A:N7	34:BA:1216:G:C4'	2.69	0.47
34:BA:1015:A:N7	34:BA:1016:A:N6	2.63	0.47
34:BA:1027:C:OP2	34:BA:1028:C:OP2	2.32	0.47
34:BA:1062:U:N3	34:BA:1063:C:N4	2.63	0.47
34:BA:1116:C:N3	34:BA:1117:G:N7	2.63	0.47
34:BA:1121:U:O5'	34:BA:1121:U:C6	2.68	0.47
34:BA:1333:A:H2'	34:BA:1334:G:H8	1.80	0.47
34:BA:1465:C:C2'	34:BA:1466:C:C5'	2.86	0.47
36:BG:31:HIS:HA	36:BG:34:LEU:HB3	1.97	0.47
36:BG:50:ALA:HB1	36:BG:72:LYS:HB2	1.96	0.47
37:BH:59:ARG:CB	37:BH:63:LYS:HZ2	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:60:GLU:OE1	37:BH:202:LEU:HD12	2.15	0.47
37:BH:61:LYS:CG	37:BH:207:TYR:CE1	2.92	0.47
37:BH:62:GLN:HE21	37:BH:62:GLN:CA	2.26	0.47
37:BH:72:GLU:O	37:BH:75:PHE:HB3	2.15	0.47
37:BH:133:VAL:HG21	37:BH:138:TYR:CE1	2.50	0.47
37:BH:149:ALA:O	37:BH:150:GLU:C	2.58	0.47
38:BI:33:VAL:C	38:BI:34:VAL:CG2	2.87	0.47
38:BI:51:VAL:O	38:BI:52:PRO:C	2.55	0.47
38:BI:103:GLY:C	38:BI:107:ARG:NH1	2.71	0.47
40:BK:17:VAL:HG21	40:BK:44:TYR:CZ	2.50	0.47
40:BK:104:LEU:O	40:BK:105:VAL:C	2.55	0.47
40:BK:113:GLU:OE1	40:BK:119:ARG:N	2.47	0.47
41:BL:68:ARG:CD	41:BL:69:ARG:N	2.73	0.47
43:BN:3:LYS:N	43:BN:3:LYS:CD	2.77	0.47
43:BN:9:ARG:CB	43:BN:9:ARG:NH1	2.78	0.47
43:BN:9:ARG:HB3	43:BN:9:ARG:NH1	2.30	0.47
43:BN:15:THR:HG21	43:BN:93:GLY:O	2.14	0.47
43:BN:49:VAL:HG11	47:BR:45:ARG:HD2	1.93	0.47
43:BN:80:LYS:HD3	43:BN:80:LYS:O	2.15	0.47
44:BO:34:ASP:CG	44:BO:36:ASP:H	2.22	0.47
45:BP:115:LYS:O	45:BP:116:SER:O	2.33	0.47
46:BQ:44:ARG:HA	46:BQ:44:ARG:HD2	1.60	0.47
46:BQ:65:LYS:CG	46:BQ:69:GLU:CG	2.92	0.47
50:BU:34:LYS:HD2	50:BU:35:VAL:N	2.30	0.47
50:BU:97:SER:C	50:BU:98:LEU:HD22	2.39	0.47
51:BV:17:SER:CB	51:BV:54:ARG:NH1	2.78	0.47
51:BV:53:ARG:C	51:BV:55:ARG:H	2.23	0.47
52:BW:30:LEU:HD12	52:BW:59:PRO:CA	2.45	0.47
52:BW:77:THR:C	52:BW:78:ARG:HG2	2.40	0.47
54:BY:3:LYS:HZ2	54:BY:13:ILE:HG21	1.80	0.47
55:CA:59:LYS:HB2	55:CA:66:TRP:CH2	2.49	0.47
55:CA:200:ASP:C	55:CA:202:ASP:N	2.73	0.47
55:CA:266:ASP:CG	55:CA:267:LEU:N	2.73	0.47
55:CA:293:ASN:O	55:CA:294:VAL:HG22	2.15	0.47
55:CA:390:ARG:CB	55:CA:391:GLU:HA	2.45	0.47
55:CA:437:VAL:O	55:CA:437:VAL:HG13	2.14	0.47
1:AA:47:C:O5'	1:AA:47:C:C6	2.55	0.47
1:AA:48:G:N2	1:AA:177:G:N7	2.62	0.47
1:AA:93:C:H2'	1:AA:94:G:H8	1.80	0.47
1:AA:107:C:H2'	1:AA:108:U:H6	1.80	0.47
1:AA:108:U:C2	1:AA:109:G:C8	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:120:U:H2'	1:AA:121:G:OP2	2.15	0.47
1:AA:182:A:C2	1:AA:183:C:N3	2.83	0.47
1:AA:189:G:N2	1:AA:206:U:H5	2.12	0.47
1:AA:195:A:H8	1:AA:195:A:O5'	1.97	0.47
1:AA:246:C:N4	1:AA:252:G:N1	2.63	0.47
1:AA:270(H):C:C2	1:AA:270(I):G:C8	3.03	0.47
1:AA:273(E):U:C2	1:AA:363(B):G:C2	3.03	0.47
1:AA:416:C:C5	1:AA:417:C:C4	3.03	0.47
1:AA:468:G:H2'	1:AA:469:G:C5'	2.45	0.47
1:AA:577:G:H2'	1:AA:578:A:O4'	2.14	0.47
1:AA:616:A:O3'	1:AA:617:G:O4'	2.32	0.47
1:AA:656:G:O2'	1:AA:657:U:C5'	2.63	0.47
1:AA:690:G:C6	1:AA:691:C:C4	3.02	0.47
1:AA:714:U:H6	1:AA:714:U:P	2.38	0.47
1:AA:715:G:N3	48:BS:53:HIS:CD2	2.68	0.47
1:AA:720:C:O2'	1:AA:721:C:C5'	2.61	0.47
1:AA:730:C:O2	1:AA:731:C:C5	2.68	0.47
1:AA:748:G:P	20:AT:88:ARG:NE	2.88	0.47
1:AA:790:C:H6	1:AA:790:C:H3'	1.79	0.47
1:AA:799:G:OP1	1:AA:800:A:H3'	2.15	0.47
1:AA:812:C:C2	1:AA:813:U:C5	3.03	0.47
1:AA:857:C:O2'	24:AX:23:VAL:HG11	2.15	0.47
1:AA:1009:A:H4'	18:AR:62:ILE:CG2	2.43	0.47
1:AA:1022:G:C3'	1:AA:1025:G:O6	2.61	0.47
1:AA:1029:A:O5'	1:AA:1029:A:C8	2.60	0.47
1:AA:1062:G:C6	1:AA:1063:G:C5	3.03	0.47
1:AA:1111:A:O3'	1:AA:1112:G:O4'	2.33	0.47
1:AA:1141:U:H5'	1:AA:1142(A):A:N6	2.30	0.47
1:AA:1192:G:OP1	13:AM:18:ARG:NH2	2.48	0.47
1:AA:1228:G:C6	1:AA:1229:G:C5	3.03	0.47
1:AA:1322:A:H2'	1:AA:1323:U:C5'	2.45	0.47
1:AA:1417:C:H1'	1:AA:1587:A:N3	2.30	0.47
1:AA:1425:G:C6	1:AA:1426:G:O6	2.68	0.47
1:AA:1433:U:H3'	1:AA:1433:U:C6	2.49	0.47
1:AA:1542:G:C1'	1:AA:1543:A:C5	2.98	0.47
1:AA:1704:G:C2'	1:AA:1705:G:O5'	2.63	0.47
1:AA:1789:A:H2'	1:AA:1789:A:N3	2.30	0.47
1:AA:1799:G:C6	1:AA:1819:A:C8	3.03	0.47
1:AA:1800:C:C4	1:AA:1818:U:C2	3.02	0.47
1:AA:1831:G:C6	1:AA:1975:G:C6	3.02	0.47
1:AA:1943:U:HO2'	1:AA:1944:U:P	2.37	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1973:G:C4	1:AA:1974:C:C5	3.03	0.47
1:AA:1990:C:C4	1:AA:1991:U:C4	3.03	0.47
1:AA:2010:G:P	20:AT:41:LYS:NZ	2.88	0.47
1:AA:2065:C:C5	1:AA:2066:C:C5	3.02	0.47
1:AA:2081:C:N3	1:AA:2082:A:C8	2.82	0.47
1:AA:2106:G:H2'	1:AA:2107:C:O4'	2.15	0.47
1:AA:2219:G:C2'	1:AA:2224:G:O5'	2.61	0.47
1:AA:2400:G:C6	1:AA:2401:U:C2	3.03	0.47
1:AA:2523:G:O2'	1:AA:2765:A:N7	2.43	0.47
1:AA:2604:U:H2'	1:AA:2605:U:C6	2.48	0.47
1:AA:2606:C:N3	1:AA:2607:G:N7	2.63	0.47
1:AA:2661:G:C5'	55:CA:14:VAL:HG21	2.44	0.47
2:AB:42:C:C4	7:AG:93:THR:HB	2.50	0.47
2:AB:77:U:C2'	2:AB:78:A:H8	2.25	0.47
2:AB:110:G:C6	2:AB:111:U:C2	3.03	0.47
3:AC:26:ALA:HB1	3:AC:185:LEU:HD12	1.97	0.47
3:AC:75:LEU:HG	3:AC:77:ILE:HG12	1.96	0.47
3:AC:177:LYS:CB	3:AC:180:PHE:HB2	2.36	0.47
4:AD:18:VAL:HG12	4:AD:18:VAL:O	2.15	0.47
4:AD:62:TYR:N	4:AD:63:ARG:HH22	2.13	0.47
4:AD:75:ILE:HD13	4:AD:99:ASP:CG	2.40	0.47
4:AD:91:ARG:NH1	4:AD:198:ASN:ND2	2.63	0.47
4:AD:136:ILE:HB	4:AD:168:ARG:CZ	2.42	0.47
5:AE:4:ILE:O	5:AE:27:LEU:HD13	2.14	0.47
5:AE:53:PRO:HG2	5:AE:75:VAL:CG1	2.45	0.47
5:AE:128:SER:O	5:AE:129:HIS:C	2.56	0.47
6:AF:12:LEU:HD22	6:AF:142:TRP:CZ3	2.50	0.47
6:AF:140:LEU:O	6:AF:141:ALA:C	2.58	0.47
6:AF:169:ASN:HD22	6:AF:173:VAL:HG12	1.80	0.47
7:AG:77:ILE:O	7:AG:78:SER:O	2.33	0.47
7:AG:125:PHE:HA	7:AG:132:ASN:HB2	1.96	0.47
7:AG:139:LEU:C	7:AG:142:PRO:HD3	2.40	0.47
7:AG:165:THR:HB	7:AG:168:GLU:OE2	2.15	0.47
7:AG:176:LEU:HD13	7:AG:176:LEU:C	2.40	0.47
8:AH:54:ARG:HB3	8:AH:54:ARG:HH11	1.80	0.47
8:AH:93:GLY:O	8:AH:107:VAL:CG2	2.63	0.47
8:AH:163:TYR:CB	8:AH:166:GLY:HA2	2.40	0.47
11:AK:7:LYS:HD3	11:AK:39:ARG:NH2	2.28	0.47
11:AK:12:ARG:HD3	11:AK:50:ASP:OD1	2.15	0.47
13:AM:127:ALA:HB3	13:AM:130:PHE:HE1	1.80	0.47
14:AN:12:GLN:HE22	14:AN:13:GLN:CD	2.17	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:16:ARG:O	14:AN:17:LEU:CD1	2.64	0.47
14:AN:77:LYS:O	14:AN:78:PRO:C	2.58	0.47
14:AN:77:LYS:HG3	14:AN:88:GLY:O	2.15	0.47
15:AO:20:LEU:HD22	15:AO:24:GLN:HG3	1.88	0.47
15:AO:87:TYR:O	15:AO:89:ASP:OD1	2.33	0.47
16:AP:82:ILE:HG13	16:AP:84:GLN:HE22	1.80	0.47
16:AP:106:ARG:HD3	16:AP:107:GLU:OE2	2.15	0.47
17:AQ:59:THR:C	17:AQ:61:PHE:CE1	2.93	0.47
17:AQ:85:LYS:HG3	17:AQ:88:ILE:HG12	1.95	0.47
17:AQ:87:ASP:O	17:AQ:88:ILE:HG13	2.14	0.47
18:AR:88:ILE:N	19:AS:52:VAL:CG2	2.71	0.47
18:AR:88:ILE:O	19:AS:52:VAL:CA	2.58	0.47
21:AU:35:THR:HG22	21:AU:36:LYS:N	2.29	0.47
21:AU:83:VAL:HG21	21:AU:86:GLY:HA2	1.97	0.47
21:AU:84:ALA:N	21:AU:85:PRO:CD	2.78	0.47
22:AV:74:PRO:CD	22:AV:76:CYS:O	2.63	0.47
23:AW:4:ARG:CG	23:AW:5:LEU:N	2.55	0.47
23:AW:10:ARG:NH2	23:AW:35:ARG:HG3	2.30	0.47
23:AW:95:PRO:HD2	23:AW:130:PRO:CA	2.44	0.47
24:AX:27:GLU:HA	24:AX:67:VAL:HG11	1.96	0.47
25:AY:14:VAL:C	25:AY:17:GLU:HB2	2.39	0.47
26:AZ:23:LEU:HD12	26:AZ:50:VAL:HG21	1.97	0.47
27:Aa:7:PRO:HD3	27:Aa:56:VAL:HG12	1.92	0.47
27:Aa:57:GLU:N	27:Aa:61:ARG:CZ	2.78	0.47
28:Ab:11:THR:CG2	28:Ab:15:ARG:HB3	2.42	0.47
29:Ac:31:PRO:HB3	29:Ac:34:LEU:CD1	2.30	0.47
30:Ad:46:VAL:O	30:Ad:47:ARG:O	2.32	0.47
31:Ae:8:LYS:NZ	31:Ae:11:LYS:HZ2	2.12	0.47
31:Ae:17:THR:C	31:Ae:19:SER:N	2.73	0.47
32:Af:2:LYS:HB3	32:Af:35:ARG:O	2.15	0.47
34:BA:13:U:C5'	34:BA:13:U:H6	2.27	0.47
34:BA:81:G:H5''	34:BA:82:U:OP2	2.15	0.47
34:BA:261:U:H5''	34:BA:262:A:OP2	2.15	0.47
34:BA:376:G:H4'	49:BT:28:ARG:CB	2.45	0.47
34:BA:517:G:C4	34:BA:531:U:O4'	2.68	0.47
34:BA:518:C:C5	34:BA:530:G:N7	2.83	0.47
34:BA:538:G:O2'	34:BA:539:A:H5'	2.14	0.47
34:BA:578:C:C2'	34:BA:728:A:N3	2.78	0.47
34:BA:588:G:H1'	34:BA:753:A:C6	2.49	0.47
34:BA:622:A:C2	34:BA:623:C:C1'	2.98	0.47
34:BA:643:C:O2'	41:BL:132:GLU:CD	2.58	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:745:C:N4	34:BA:746:A:H62	2.13	0.47
34:BA:748:C:H1'	34:BA:749:C:C5	2.50	0.47
34:BA:885:G:C2	34:BA:913:A:C2	3.03	0.47
34:BA:901:A:H2'	34:BA:902:G:O5'	2.15	0.47
34:BA:928:G:H4'	34:BA:1532:U:H5''	1.97	0.47
34:BA:929:G:C6	34:BA:930:C:C4	3.03	0.47
34:BA:931:C:N4	34:BA:1387:G:O6	2.48	0.47
34:BA:1015:A:H2'	34:BA:1016:A:H8	1.76	0.47
34:BA:1057:G:H5'	36:BG:196:LEU:HA	1.97	0.47
34:BA:1124:G:H2'	34:BA:1126:U:O4	2.15	0.47
34:BA:1145:C:O2'	34:BA:1146:A:O5'	2.32	0.47
34:BA:1184:G:N1	34:BA:1185:G:C6	2.82	0.47
34:BA:1192:C:C5	34:BA:1193:G:N7	2.83	0.47
34:BA:1327:C:O2'	34:BA:1328:C:H5'	2.15	0.47
34:BA:1343:G:H5'	42:BM:124:GLN:HA	1.97	0.47
34:BA:1483:A:H3'	34:BA:1484:C:C6	2.49	0.47
34:BA:1483:A:H3'	34:BA:1484:C:H6	1.80	0.47
35:BF:207:ALA:O	35:BF:208:ILE:C	2.58	0.47
36:BG:11:ARG:HE	36:BG:11:ARG:N	2.13	0.47
36:BG:63:ASN:O	36:BG:64:VAL:HB	2.15	0.47
36:BG:64:VAL:O	36:BG:99:VAL:CG1	2.62	0.47
36:BG:182:ILE:CD1	36:BG:203:PHE:CD1	2.97	0.47
36:BG:194:GLY:O	36:BG:196:LEU:HD23	2.15	0.47
37:BH:98:GLU:O	37:BH:103:ASN:CB	2.63	0.47
37:BH:179:GLU:C	37:BH:181:MET:H	2.21	0.47
38:BI:19:MET:SD	38:BI:24:ARG:HG2	2.54	0.47
38:BI:31:LEU:O	38:BI:31:LEU:HD23	2.14	0.47
38:BI:98:THR:HB	38:BI:117:ASP:HA	1.97	0.47
39:BJ:26:ILE:HG22	39:BJ:30:LEU:CD1	2.42	0.47
40:BK:68:ASN:ND2	40:BK:128:ALA:CA	2.78	0.47
40:BK:139:GLU:O	40:BK:143:ARG:HG3	2.14	0.47
40:BK:155:ARG:O	40:BK:156:TRP:HE3	1.97	0.47
41:BL:123:GLU:CD	41:BL:124:ALA:H	2.13	0.47
42:BM:46:ALA:HB1	42:BM:77:ILE:HG22	1.97	0.47
43:BN:47:PHE:HZ	43:BN:65:LEU:HB2	1.80	0.47
44:BO:59:TYR:O	44:BO:62:GLN:CD	2.57	0.47
45:BP:8:ASN:ND2	45:BP:8:ASN:N	2.55	0.47
45:BP:69:TYR:HB3	45:BP:99:HIS:HB3	1.96	0.47
46:BQ:19:LEU:C	46:BQ:21:TYR:N	2.73	0.47
46:BQ:27:LYS:HB2	54:BY:7:ARG:HH12	1.75	0.47
48:BS:39:LEU:HD22	48:BS:56:LEU:CD2	2.42	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:56:ALA:HB1	49:BT:74:LEU:CD1	2.45	0.47
55:CA:19:THR:OG1	55:CA:19:THR:O	2.31	0.47
55:CA:39:GLN:H	55:CA:40:GLU:HA	1.79	0.47
55:CA:58:ALA:HB3	55:CA:60:ASN:HD21	1.80	0.47
55:CA:64:ILE:CD1	55:CA:188:GLN:N	2.77	0.47
55:CA:158:LEU:N	55:CA:158:LEU:HD12	2.29	0.47
55:CA:452:ARG:CD	55:CA:452:ARG:H	2.28	0.47
55:CA:509:LYS:HA	55:CA:509:LYS:CE	2.45	0.47
1:AA:122:G:N2	1:AA:130:C:H1'	2.31	0.46
1:AA:251:A:HO2'	1:AA:252:G:P	2.38	0.46
1:AA:262:A:H2'	1:AA:263:C:C6	2.50	0.46
1:AA:270(L):U:O2'	1:AA:270(M):U:OP1	2.32	0.46
1:AA:270(X):G:C4'	1:AA:273:G:H5'	2.44	0.46
1:AA:273(E):U:N1	1:AA:363(B):G:N2	2.63	0.46
1:AA:294:A:N6	1:AA:345:A:C6	2.83	0.46
1:AA:395:U:OP2	1:AA:395:U:H6	1.99	0.46
1:AA:428:A:N3	1:AA:428:A:C2'	2.78	0.46
1:AA:449:A:H4'	6:AF:52:LYS:HZ2	1.80	0.46
1:AA:470:A:N3	1:AA:471:A:C1'	2.76	0.46
1:AA:489:G:N2	1:AA:491:G:H1'	2.30	0.46
1:AA:499:U:C6	1:AA:503:A:N6	2.83	0.46
1:AA:586:A:C2	1:AA:810:U:O4'	2.69	0.46
1:AA:716:A:H1'	48:BS:44:LYS:HE2	1.96	0.46
1:AA:718:A:H3'	1:AA:719:C:O4'	2.14	0.46
1:AA:872:A:O2'	14:AN:66:ILE:CB	2.64	0.46
1:AA:892:G:C2'	1:AA:893:C:C6	2.96	0.46
1:AA:903:C:C2'	23:AW:169:GLU:OE2	2.63	0.46
1:AA:930:U:C2'	1:AA:931:G:OP2	2.64	0.46
1:AA:952:G:C6	1:AA:966:G:N1	2.83	0.46
1:AA:955:C:H5''	14:AN:87:LYS:CD	2.44	0.46
1:AA:994:C:O2	1:AA:996:A:C8	2.68	0.46
1:AA:1063:G:OP1	10:AJ:76:TYR:OH	2.31	0.46
1:AA:1139:G:OP1	11:AK:63:THR:HG21	2.14	0.46
1:AA:1182:A:H2'	1:AA:1182:A:N3	2.30	0.46
1:AA:1197:G:C4	1:AA:1198:U:C6	3.03	0.46
1:AA:1238:G:N2	1:AA:1239:G:C4	2.83	0.46
1:AA:1264:G:C6	1:AA:1265:A:C6	3.03	0.46
1:AA:1345:C:C2'	1:AA:1346:G:H5'	2.44	0.46
1:AA:1364:G:OP1	27:Aa:2:LYS:O	2.34	0.46
1:AA:1397:U:O2	1:AA:1397:U:H2'	2.15	0.46
1:AA:1449:A:C1'	1:AA:1529:A:C6	2.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1453:A:N7	15:AO:73:VAL:CG1	2.77	0.46
1:AA:1472:A:O2'	1:AA:1473:G:C8	2.62	0.46
1:AA:1530:G:H2'	1:AA:1531:C:C5	2.48	0.46
1:AA:1667:G:O3'	12:AL:7:TYR:CZ	2.68	0.46
1:AA:1690:A:H2'	1:AA:1691:C:C5'	2.44	0.46
1:AA:1698:A:O2'	1:AA:1699:G:H3'	2.16	0.46
1:AA:1712:C:H3'	1:AA:1716:U:C5	2.50	0.46
1:AA:1783:A:C5'	1:AA:1784:A:OP1	2.57	0.46
1:AA:1801:G:OP1	1:AA:1801:G:H8	1.96	0.46
1:AA:1803:A:H5''	4:AD:257:LEU:HB3	1.97	0.46
1:AA:1829:A:C2	1:AA:1830:C:O4'	2.68	0.46
1:AA:1933:G:O6	1:AA:1968:G:C2	2.68	0.46
1:AA:1949:G:C8	1:AA:1950:G:C8	3.03	0.46
1:AA:2000:G:C6	1:AA:2001:A:N6	2.84	0.46
1:AA:2033:A:C6	1:AA:2036:C:N4	2.83	0.46
1:AA:2088:G:N1	1:AA:2089:U:C2	2.83	0.46
1:AA:2110:G:H2'	1:AA:2120:G:H5'	1.96	0.46
1:AA:2182:G:H2'	1:AA:2183:C:H6	1.80	0.46
1:AA:2226:C:C2'	1:AA:2227:A:H5'	2.45	0.46
1:AA:2264:C:H2'	1:AA:2265:U:O5'	2.15	0.46
1:AA:2306:C:N4	7:AG:45:GLU:HG2	2.30	0.46
1:AA:2309:A:C5	1:AA:2310:A:C5	3.02	0.46
1:AA:2325:G:C5	1:AA:2326:C:C5	3.03	0.46
1:AA:2352:A:C2'	1:AA:2353:G:O4'	2.56	0.46
1:AA:2420:C:OP2	31:Ae:33:ASN:O	2.33	0.46
1:AA:2450:A:C2	1:AA:2451:A:C1'	2.98	0.46
1:AA:2462:U:O4	1:AA:2463:C:N4	2.49	0.46
1:AA:2473:U:OP1	1:AA:2474:C:N4	2.41	0.46
1:AA:2482:G:N7	1:AA:2483:C:C5	2.84	0.46
1:AA:2519:U:C2	1:AA:2542:A:N1	2.83	0.46
1:AA:2532:G:C2'	1:AA:2664:G:O2'	2.59	0.46
1:AA:2558:C:H2'	1:AA:2559:C:O5'	2.15	0.46
1:AA:2559:C:H2'	1:AA:2560:C:H6	1.79	0.46
1:AA:2637:U:C5'	5:AE:81:ILE:CD1	2.79	0.46
1:AA:2640:G:H4'	11:AK:75:TYR:CZ	2.49	0.46
1:AA:2688:U:O4	1:AA:2719:G:H3'	2.15	0.46
1:AA:2746:U:H5'	8:AH:138:LYS:O	2.14	0.46
1:AA:2817:G:C5	1:AA:2818:G:N7	2.82	0.46
1:AA:2887:U:C2	1:AA:2888:C:C6	3.04	0.46
2:AB:40:U:H3'	2:AB:41:U:H5'	1.96	0.46
2:AB:87:G:N2	2:AB:89:G:C8	2.82	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:61:THR:HA	3:AC:163:PHE:CE1	2.50	0.46
3:AC:68:LEU:HG	3:AC:69:GLY:H	1.79	0.46
3:AC:116:THR:C	3:AC:118:ASP:H	2.23	0.46
4:AD:117:VAL:HG13	4:AD:129:ASN:CA	2.45	0.46
4:AD:171:ASP:O	4:AD:186:HIS:CB	2.63	0.46
5:AE:128:SER:OG	5:AE:129:HIS:CD2	2.67	0.46
6:AF:146:ALA:CB	6:AF:148:LEU:HD23	2.45	0.46
7:AG:19:LEU:N	7:AG:19:LEU:CD1	2.76	0.46
7:AG:21:ARG:NH2	7:AG:27:ASN:HA	2.31	0.46
8:AH:101:ARG:HB3	8:AH:117:PRO:CD	2.45	0.46
11:AK:31:ALA:O	11:AK:34:LEU:N	2.48	0.46
11:AK:35:ARG:NH1	11:AK:48:MET:CE	2.78	0.46
11:AK:109:LYS:CE	11:AK:111:PRO:HD2	2.46	0.46
12:AL:1:MET:SD	12:AL:2:ILE:HG12	2.55	0.46
12:AL:11:ALA:C	12:AL:97:ARG:HH12	2.22	0.46
12:AL:14:THR:OG1	12:AL:16:ALA:C	2.58	0.46
12:AL:22:ILE:CD1	12:AL:40:VAL:HG21	2.45	0.46
12:AL:86:ILE:HG23	12:AL:90:GLN:C	2.39	0.46
13:AM:80:TYR:CE1	13:AM:85:LEU:HD13	2.49	0.46
13:AM:130:PHE:C	13:AM:131:SER:O	2.53	0.46
16:AP:98:VAL:O	16:AP:99:LYS:C	2.58	0.46
17:AQ:17:THR:HG21	17:AQ:22:PHE:CZ	2.50	0.46
17:AQ:70:VAL:HB	17:AQ:74:ARG:CZ	2.43	0.46
18:AR:61:TRP:HB3	18:AR:65:ILE:HD11	1.97	0.46
19:AS:6:LYS:CD	19:AS:10:LYS:HG2	2.27	0.46
19:AS:69:LYS:CA	19:AS:92:THR:HB	2.44	0.46
19:AS:83:ARG:C	19:AS:84:LYS:HG3	2.39	0.46
20:AT:34:ASN:CA	20:AT:37:ARG:HE	2.16	0.46
21:AU:27:THR:C	21:AU:28:PHE:CG	2.91	0.46
22:AV:2:ARG:HE	22:AV:4:LYS:H	1.63	0.46
22:AV:10:GLY:N	22:AV:110:GLU:OE1	2.48	0.46
22:AV:84:ARG:HB2	22:AV:92:ASN:O	2.15	0.46
23:AW:2:GLU:C	23:AW:3:TYR:CG	2.91	0.46
23:AW:9:TYR:HB3	23:AW:14:LYS:HG2	1.93	0.46
23:AW:48:PHE:CA	23:AW:54:HIS:CE1	2.98	0.46
23:AW:74:VAL:HG22	23:AW:87:ASP:H	1.79	0.46
23:AW:77:ASP:HB3	23:AW:81:ARG:O	2.15	0.46
23:AW:111:VAL:HG22	23:AW:117:LEU:CG	2.32	0.46
23:AW:119:GLU:O	23:AW:119:GLU:HG3	2.15	0.46
23:AW:163:LEU:HD12	23:AW:163:LEU:N	2.30	0.46
24:AX:9:SER:O	24:AX:10:THR:C	2.56	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:37:LEU:HG	24:AX:38:VAL:H	1.81	0.46
24:AX:51:VAL:CG1	24:AX:59:LEU:HD22	2.45	0.46
26:AZ:29:ARG:C	26:AZ:30:ARG:HD2	2.40	0.46
27:Aa:27:THR:HB	27:Aa:28:LYS:H	1.45	0.46
27:Aa:70:GLY:O	27:Aa:71:ARG:CB	2.63	0.46
28:Ab:56:LYS:CG	28:Ab:57:VAL:HG13	2.44	0.46
31:Ae:38:GLY:C	31:Ae:40:GLU:N	2.72	0.46
32:Af:10:ILE:CD1	32:Af:14:CYS:SG	3.03	0.46
34:BA:18:C:N4	34:BA:918:A:H61	2.13	0.46
34:BA:29:G:C5'	34:BA:296:U:OP1	2.58	0.46
34:BA:68:G:H5'	34:BA:171:A:C1'	2.45	0.46
34:BA:124:G:OP1	34:BA:310:G:N2	2.33	0.46
34:BA:161:A:C6	34:BA:162:A:C6	3.03	0.46
34:BA:265:G:H5'	50:BU:64:PRO:C	2.40	0.46
34:BA:279:A:H5''	34:BA:280:C:H3'	1.93	0.46
34:BA:285:G:C5	34:BA:286:G:N7	2.83	0.46
34:BA:305:G:O2'	34:BA:306:G:OP2	2.33	0.46
34:BA:328:C:O2'	34:BA:329:A:O5'	2.32	0.46
34:BA:433:C:N4	34:BA:434:U:O4	2.48	0.46
34:BA:557:G:O3'	34:BA:558:G:O4'	2.32	0.46
34:BA:763:G:N3	34:BA:764:C:C6	2.83	0.46
34:BA:872:A:C6	34:BA:874:G:C5	3.03	0.46
34:BA:978:A:C8	34:BA:978:A:C3'	2.98	0.46
34:BA:1067:A:H2	34:BA:1068:G:C4	2.32	0.46
34:BA:1085:U:H5''	34:BA:1086:U:H5	1.78	0.46
34:BA:1108:G:C2'	34:BA:1109:C:H5'	2.45	0.46
34:BA:1128:C:O4'	34:BA:1148:U:O4	2.33	0.46
34:BA:1206:G:C2	34:BA:1207:G:C4	3.03	0.46
34:BA:1248:A:HO2'	42:BM:36:TYR:HE1	1.52	0.46
34:BA:1287:A:N6	34:BA:1371:G:C4'	2.77	0.46
34:BA:1305:G:N2	34:BA:1331:G:N3	2.63	0.46
34:BA:1305:G:C2	34:BA:1331:G:C2	3.03	0.46
34:BA:1333:A:O5'	34:BA:1333:A:C8	2.64	0.46
34:BA:1416:G:C6	34:BA:1485:U:O2	2.68	0.46
34:BA:1428:A:N6	34:BA:1473:A:N6	2.62	0.46
34:BA:1476:G:C4	34:BA:1477:C:C5	3.02	0.46
34:BA:1517:G:C2	34:BA:1518:A:C4	3.03	0.46
35:BF:32:ILE:O	35:BF:32:ILE:HG22	2.14	0.46
35:BF:76:GLN:O	35:BF:77:ALA:CB	2.62	0.46
35:BF:77:ALA:HA	35:BF:208:ILE:CD1	2.33	0.46
35:BF:134:GLU:O	35:BF:138:LEU:CG	2.56	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:6:HIS:CB	47:BR:49:HIS:ND1	2.77	0.46
36:BG:150:LYS:HD3	36:BG:150:LYS:C	2.40	0.46
36:BG:187:ALA:CB	36:BG:198:VAL:HG22	2.43	0.46
37:BH:32:ALA:O	37:BH:37:PRO:HA	2.14	0.46
37:BH:83:SER:N	37:BH:89:THR:HG23	2.29	0.46
37:BH:120:LEU:O	37:BH:121:VAL:C	2.57	0.46
37:BH:133:VAL:HG11	37:BH:135:LEU:HD12	1.95	0.46
40:BK:70:LYS:O	40:BK:138:LYS:CE	2.61	0.46
40:BK:106:GLN:CA	40:BK:106:GLN:NE2	2.69	0.46
41:BL:19:VAL:O	41:BL:20:TYR:CB	2.63	0.46
41:BL:36:LEU:H	41:BL:36:LEU:CD2	2.13	0.46
41:BL:67:PRO:C	41:BL:68:ARG:O	2.56	0.46
41:BL:87:SER:HB2	41:BL:91:ARG:O	2.14	0.46
41:BL:126:LYS:NZ	41:BL:127:LEU:CD2	2.73	0.46
42:BM:4:TYR:CG	42:BM:88:TYR:HB2	2.50	0.46
44:BO:32:ILE:HD13	44:BO:72:ALA:HA	1.97	0.46
44:BO:69:ALA:O	44:BO:70:LYS:C	2.58	0.46
44:BO:85:ARG:HD3	44:BO:112:THR:H	1.80	0.46
45:BP:24:VAL:HG13	45:BP:26:ALA:H	1.77	0.46
45:BP:83:VAL:C	45:BP:104:VAL:CG1	2.88	0.46
45:BP:119:LYS:O	45:BP:120:TYR:HB2	2.15	0.46
47:BR:49:HIS:O	47:BR:50:LYS:C	2.58	0.46
50:BU:4:LYS:CG	50:BU:5:VAL:N	2.77	0.46
50:BU:57:VAL:CG2	50:BU:58:GLU:N	2.78	0.46
51:BV:22:VAL:O	51:BV:24:ALA:N	2.48	0.46
53:BX:24:LEU:O	53:BX:25:ARG:C	2.58	0.46
53:BX:42:GLN:O	53:BX:45:GLN:N	2.47	0.46
53:BX:45:GLN:HE21	53:BX:91:LEU:CD1	2.17	0.46
55:CA:24:LYS:C	55:CA:26:LEU:N	2.73	0.46
55:CA:146:ASP:HB3	55:CA:149:VAL:HG11	1.97	0.46
55:CA:300:LEU:H	55:CA:300:LEU:CD1	2.25	0.46
55:CA:572:ILE:CG2	55:CA:578:VAL:CG2	2.78	0.46
55:CA:580:VAL:CB	55:CA:585:ILE:CD1	2.90	0.46
1:AA:28:A:C2	1:AA:29:U:H4'	2.50	0.46
1:AA:29:U:O4	1:AA:447:A:H5''	2.14	0.46
1:AA:64:A:H4'	21:AU:73:ARG:H	1.79	0.46
1:AA:199:A:C6	1:AA:2433:A:N3	2.83	0.46
1:AA:242:G:C8	31:Ae:4:MET:HG2	2.46	0.46
1:AA:324:A:H2	1:AA:325:G:C1'	2.28	0.46
1:AA:348:G:H2'	1:AA:349:G:C8	2.48	0.46
1:AA:378:C:H2'	1:AA:379:G:H8	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:457:A:C2	1:AA:470:A:C5'	2.99	0.46
1:AA:473:G:N1	1:AA:474:G:C6	2.83	0.46
1:AA:515:A:H5'	18:AR:32:PHE:CZ	2.50	0.46
1:AA:569:U:OP1	1:AA:945:A:C6	2.68	0.46
1:AA:624:C:C5'	1:AA:624:C:H6	2.29	0.46
1:AA:820:A:H2	1:AA:944:G:OP1	1.98	0.46
1:AA:827:U:C4	1:AA:2430:A:C6	3.03	0.46
1:AA:860:U:H3'	1:AA:860:U:O2	2.15	0.46
1:AA:1268:A:N6	1:AA:2013:A:N7	2.63	0.46
1:AA:1277:G:O2'	15:AO:24:GLN:NE2	2.41	0.46
1:AA:1295:C:C2	1:AA:1296:G:N7	2.83	0.46
1:AA:1350:C:O2'	1:AA:1351:C:C5'	2.62	0.46
1:AA:1360:A:H61	1:AA:1371:G:H1'	1.79	0.46
1:AA:1381:G:C6	1:AA:1382:G:C6	3.04	0.46
1:AA:1427:A:O2'	1:AA:1428:C:C6	2.61	0.46
1:AA:1438:U:H6	1:AA:1438:U:OP2	1.98	0.46
1:AA:1515:C:C6	1:AA:1515:C:P	3.08	0.46
1:AA:1570:A:C6	1:AA:1571:A:N7	2.83	0.46
1:AA:1613:G:H1'	30:Ad:3:ARG:NE	2.30	0.46
1:AA:1695:G:C1'	4:AD:15:PHE:HB3	2.45	0.46
1:AA:1769:G:H2'	1:AA:1770:G:H8	1.79	0.46
1:AA:1901:A:O3'	4:AD:244:ARG:NH2	2.47	0.46
1:AA:2037:G:H2'	1:AA:2038:G:H8	1.74	0.46
1:AA:2127:G:O3'	3:AC:36:LYS:HB2	2.15	0.46
1:AA:2132:U:C5'	1:AA:2133:G:H5'	2.42	0.46
1:AA:2136:C:N3	1:AA:2137:C:C5	2.83	0.46
1:AA:2213:U:C2	1:AA:2213:U:H5''	2.50	0.46
1:AA:2253:G:C2'	1:AA:2254:C:O5'	2.64	0.46
1:AA:2261:C:O5'	1:AA:2261:C:C6	2.67	0.46
1:AA:2286:A:N6	29:Ac:32:ASN:CA	2.78	0.46
1:AA:2323:G:C4	1:AA:2324:C:C5	3.03	0.46
1:AA:2377:A:H2'	1:AA:2378:A:N7	2.30	0.46
1:AA:2431:U:C2	1:AA:2433:A:OP2	2.68	0.46
1:AA:2439:A:C4'	1:AA:2440:C:O5'	2.63	0.46
1:AA:2549:G:C2'	1:AA:2550:G:H5'	2.44	0.46
1:AA:2589:A:OP1	4:AD:226:MET:HG3	2.16	0.46
1:AA:2619:C:H5''	5:AE:152:LYS:CA	2.45	0.46
1:AA:2705:A:H8	1:AA:2705:A:O5'	1.99	0.46
1:AA:2751:G:C1'	8:AH:6:ARG:HH22	2.28	0.46
1:AA:2781:A:H2'	1:AA:2782:G:C4'	2.46	0.46
1:AA:2813:A:N1	1:AA:2888:C:N3	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2864:G:C2	1:AA:2865:U:C2	3.02	0.46
2:AB:83:G:H21	2:AB:84:C:C1'	2.29	0.46
2:AB:116:G:H5'	16:AP:53:SER:CB	2.44	0.46
3:AC:21:THR:HG22	3:AC:225:ASN:HB3	1.96	0.46
3:AC:49:ILE:CG1	3:AC:51:PRO:HD3	2.45	0.46
3:AC:103:ILE:HG22	3:AC:130:ILE:HG21	1.97	0.46
3:AC:120:MET:CA	3:AC:120:MET:HE3	2.46	0.46
3:AC:189:ILE:HD13	3:AC:224:ILE:HD13	1.96	0.46
5:AE:34:VAL:CG1	5:AE:36:ARG:NH1	2.79	0.46
5:AE:48:GLN:NE2	5:AE:48:GLN:H	2.11	0.46
6:AF:9:ILE:HG22	6:AF:10:PRO:N	2.28	0.46
6:AF:194:MET:HE1	6:AF:197:ASP:N	2.30	0.46
7:AG:115:ARG:HG3	7:AG:115:ARG:HH11	1.80	0.46
7:AG:151:ALA:HB1	7:AG:152:LEU:HG	1.97	0.46
7:AG:167:GLU:OE1	7:AG:167:GLU:N	2.45	0.46
8:AH:23:ARG:NH1	8:AH:35:VAL:C	2.73	0.46
8:AH:24:VAL:HG21	8:AH:72:ILE:HD13	1.97	0.46
10:AJ:72:PRO:HG2	10:AJ:77:LEU:CA	2.38	0.46
10:AJ:85:GLU:OE1	10:AJ:96:VAL:HG21	2.15	0.46
10:AJ:86:LYS:C	10:AJ:88:ALA:H	2.24	0.46
11:AK:17:ASP:O	11:AK:18:ALA:CB	2.64	0.46
11:AK:74:ARG:CG	11:AK:76:SER:OG	2.63	0.46
12:AL:61:VAL:HG12	12:AL:61:VAL:O	2.15	0.46
13:AM:23:PRO:CB	13:AM:28:GLY:HA2	2.25	0.46
13:AM:95:VAL:O	13:AM:95:VAL:HG12	2.15	0.46
14:AN:46:GLN:HG2	14:AN:125:LEU:HD22	1.97	0.46
16:AP:18:ILE:O	16:AP:19:LYS:C	2.57	0.46
16:AP:79:ALA:O	16:AP:81:GLY:N	2.47	0.46
17:AQ:28:VAL:HG23	17:AQ:94:ALA:N	2.30	0.46
18:AR:33:ARG:O	18:AR:35:ALA:N	2.48	0.46
18:AR:36:ARG:O	18:AR:37:GLU:C	2.59	0.46
18:AR:55:ARG:HA	18:AR:58:ARG:NE	2.30	0.46
19:AS:61:VAL:O	19:AS:99:ILE:O	2.32	0.46
20:AT:8:ARG:NH1	20:AT:102:HIS:CE1	2.83	0.46
20:AT:13:SER:C	20:AT:16:LYS:HZ1	2.22	0.46
20:AT:33:ARG:HH21	20:AT:36:LEU:CB	2.26	0.46
22:AV:35:TYR:HE2	22:AV:67:LEU:HD13	1.78	0.46
23:AW:128:VAL:O	23:AW:129:SER:HB2	2.14	0.46
24:AX:33:ALA:CA	24:AX:61:ALA:O	2.60	0.46
24:AX:40:GLN:HE21	24:AX:57:PHE:HB3	1.80	0.46
24:AX:56:ASP:OD2	24:AX:58:THR:OG1	2.24	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:6:GLU:O	25:AY:9:ARG:N	2.48	0.46
25:AY:29:GLU:C	25:AY:33:GLN:OE1	2.58	0.46
29:Ac:22:ALA:CB	29:Ac:39:TYR:HE2	2.22	0.46
31:Ae:23:VAL:HA	31:Ae:47:LYS:O	2.16	0.46
32:Af:19:ARG:O	32:Af:19:ARG:HG3	2.14	0.46
34:BA:25:C:H4'	34:BA:524:G:H21	1.80	0.46
34:BA:47:C:O2'	34:BA:48:C:O5'	2.33	0.46
34:BA:57:G:C6	34:BA:58:C:C4	3.02	0.46
34:BA:92:G:C2	34:BA:93:U:C2	3.03	0.46
34:BA:104:G:N1	34:BA:105:G:C5	2.83	0.46
34:BA:265:G:N9	34:BA:267:C:C5	2.83	0.46
34:BA:282:A:H2'	34:BA:282:A:N3	2.29	0.46
34:BA:450:G:H5'	49:BT:43:LYS:NZ	2.30	0.46
34:BA:544:G:C4	34:BA:545:C:C5	3.03	0.46
34:BA:625:G:H2'	34:BA:626:U:H6	1.80	0.46
34:BA:625:G:H4'	49:BT:16:HIS:CG	2.50	0.46
34:BA:692:U:O2	34:BA:694:A:H8	1.99	0.46
34:BA:742:G:C2'	34:BA:743:U:H5'	2.45	0.46
34:BA:748:C:O2'	34:BA:749:C:H5'	2.14	0.46
34:BA:779:C:H2'	34:BA:780:A:O4'	2.15	0.46
34:BA:817:C:C5	34:BA:819:A:O4'	2.68	0.46
34:BA:841:U:OP2	34:BA:842:C:N4	2.48	0.46
34:BA:880:C:P	45:BP:9:GLN:HE21	2.38	0.46
34:BA:932:C:O2	34:BA:932:C:H2'	2.14	0.46
34:BA:942:G:N2	42:BM:124:GLN:CD	2.74	0.46
34:BA:945:G:C6	34:BA:1337:G:C5	3.03	0.46
34:BA:1034:G:H2'	34:BA:1035:A:H8	1.81	0.46
34:BA:1056:U:O2	36:BG:195:VAL:CG2	2.62	0.46
34:BA:1182:G:H4'	34:BA:1183:A:C5'	2.45	0.46
34:BA:1368:G:P	42:BM:112:LYS:O	2.73	0.46
35:BF:80:ILE:CG1	35:BF:212:GLN:HG2	2.45	0.46
35:BF:136:VAL:C	35:BF:139:LYS:HG2	2.40	0.46
36:BG:29:TYR:O	36:BG:29:TYR:CD2	2.60	0.46
36:BG:84:ILE:HG13	36:BG:101:LEU:CG	2.46	0.46
36:BG:180:ALA:HB1	36:BG:203:PHE:HE1	1.80	0.46
37:BH:29:PRO:O	37:BH:30:LYS:CB	2.64	0.46
37:BH:33:MET:HE3	37:BH:33:MET:H	1.80	0.46
38:BI:48:ALA:HB3	38:BI:54:ALA:N	2.30	0.46
38:BI:59:GLY:C	38:BI:63:ARG:NH2	2.70	0.46
38:BI:90:VAL:O	38:BI:120:THR:OG1	2.16	0.46
39:BJ:3:ARG:O	39:BJ:93:SER:OG	2.32	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:15:ASP:HB3	40:BK:19:GLY:N	2.30	0.46
40:BK:78:ARG:NE	40:BK:80:VAL:HG23	2.26	0.46
40:BK:101:LEU:O	40:BK:102:ARG:C	2.58	0.46
40:BK:139:GLU:CD	40:BK:139:GLU:N	2.72	0.46
41:BL:104:ARG:CD	41:BL:107:LEU:HD11	2.45	0.46
42:BM:89:ASN:C	42:BM:91:ASP:H	2.23	0.46
42:BM:97:LYS:HB3	42:BM:98:PRO:CD	2.39	0.46
43:BN:10:GLY:HA3	43:BN:16:LEU:CD2	2.42	0.46
43:BN:16:LEU:HB3	43:BN:70:ARG:HG3	1.96	0.46
43:BN:23:ILE:HG13	43:BN:85:LEU:CB	2.30	0.46
44:BO:81:ASP:HA	44:BO:107:SER:O	2.14	0.46
46:BQ:84:ILE:HG13	46:BQ:86:CYS:H	1.80	0.46
47:BR:35:ARG:O	47:BR:38:GLY:N	2.48	0.46
47:BR:35:ARG:C	47:BR:37:PHE:H	2.23	0.46
47:BR:36:PHE:CE2	47:BR:37:PHE:CE1	3.03	0.46
48:BS:66:LEU:H	48:BS:66:LEU:CD2	2.29	0.46
49:BT:19:ILE:O	49:BT:36:ILE:HG13	2.15	0.46
50:BU:59:ILE:HG13	50:BU:60:ILE:N	2.29	0.46
50:BU:75:ARG:NH1	50:BU:76:LEU:O	2.48	0.46
53:BX:38:LYS:O	53:BX:41:ILE:N	2.48	0.46
55:CA:22:VAL:HB	55:CA:56:ILE:HG13	1.97	0.46
55:CA:96:LEU:HD22	55:CA:126:VAL:HG21	1.97	0.46
55:CA:206:GLN:CB	55:CA:228:ARG:H	2.21	0.46
1:AA:52:A:C4	1:AA:53:A:N7	2.83	0.46
1:AA:151:C:C2'	1:AA:152:G:C8	2.96	0.46
1:AA:204:A:C4	1:AA:206:U:N3	2.83	0.46
1:AA:221:A:N3	1:AA:233:A:H1'	2.30	0.46
1:AA:237:C:N3	1:AA:238:C:C5	2.83	0.46
1:AA:270(N):G:H3'	1:AA:270(O):U:C5	2.50	0.46
1:AA:307:G:N1	1:AA:309:G:H5''	2.30	0.46
1:AA:311:A:H2	1:AA:331:A:H5''	1.80	0.46
1:AA:319:C:C4	1:AA:320:A:C6	3.04	0.46
1:AA:323:G:C2	1:AA:333:G:H1'	2.49	0.46
1:AA:417:C:O5'	1:AA:417:C:H6	1.98	0.46
1:AA:459:U:OP2	30:Ad:40:TRP:N	2.48	0.46
1:AA:473:G:N2	1:AA:474:G:C4	2.83	0.46
1:AA:532:A:O3'	18:AR:28:ARG:HD2	2.15	0.46
1:AA:629:G:H5'	1:AA:649:G:N2	2.30	0.46
1:AA:638:G:O6	1:AA:639:U:N3	2.48	0.46
1:AA:643:A:O2'	1:AA:644:A:P	2.73	0.46
1:AA:695:G:C5	1:AA:768:G:C6	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:723:G:C2	1:AA:724:U:H1'	2.50	0.46
1:AA:836:G:C5	1:AA:837:C:C4	3.03	0.46
1:AA:848:G:H8	1:AA:848:G:H5''	1.80	0.46
1:AA:933:A:N3	1:AA:934:G:C8	2.83	0.46
1:AA:955:C:OP1	14:AN:17:LEU:HG	2.16	0.46
1:AA:974:G:C8	1:AA:974(A):C:O4'	2.69	0.46
1:AA:1115:G:N2	1:AA:1116:C:O2	2.47	0.46
1:AA:1129:A:HO2'	1:AA:2515:C:H1'	1.80	0.46
1:AA:1140:C:H2'	1:AA:1141:U:OP2	2.15	0.46
1:AA:1223:C:C5	1:AA:1227:A:N6	2.83	0.46
1:AA:1407:C:OP2	1:AA:1407:C:H3'	2.16	0.46
1:AA:1434:A:N1	1:AA:1435:G:C4	2.83	0.46
1:AA:1596:A:C6	1:AA:1597:A:C6	3.03	0.46
1:AA:1608:A:C2	1:AA:1611:C:C5	3.04	0.46
1:AA:1683:C:C2'	1:AA:1684:C:O5'	2.63	0.46
1:AA:1748:G:H2'	1:AA:1749:A:H8	1.73	0.46
1:AA:1792:G:N3	1:AA:1792:G:C2'	2.79	0.46
1:AA:1892:C:N3	1:AA:1893:C:C5	2.83	0.46
1:AA:1918:A:C2	34:BA:1409:C:H6	2.33	0.46
1:AA:1949:G:C2'	1:AA:1950:G:O4'	2.61	0.46
1:AA:1995:U:O2'	12:AL:31:LYS:HE2	2.15	0.46
1:AA:2071:A:C2	1:AA:2441:C:C4	3.03	0.46
1:AA:2077:A:H1'	1:AA:2435:A:O4'	2.15	0.46
1:AA:2094:G:C6	1:AA:2196:C:C4	3.04	0.46
1:AA:2157:G:O2'	1:AA:2158:A:OP1	2.27	0.46
1:AA:2259:G:H4'	1:AA:2427:C:H2'	1.97	0.46
1:AA:2404:C:C4	1:AA:2414:G:C2	3.03	0.46
1:AA:2459:A:N7	1:AA:2493:U:O4	2.49	0.46
1:AA:2512:C:C5'	5:AE:120:TRP:CH2	2.92	0.46
1:AA:2543:G:C2	1:AA:2765:A:N1	2.83	0.46
1:AA:2572:A:H3'	5:AE:144:ARG:HH11	1.80	0.46
1:AA:2586:C:H3'	1:AA:2586:C:C6	2.51	0.46
1:AA:2597:G:N9	4:AD:242:ARG:NH2	2.62	0.46
1:AA:2721:A:C3'	1:AA:2722:G:H8	2.28	0.46
1:AA:2732:G:OP2	1:AA:2732:G:C8	2.68	0.46
1:AA:2734:A:N6	1:AA:2735:G:C2	2.83	0.46
1:AA:2899:G:C6	1:AA:2900:A:N7	2.83	0.46
2:AB:81:G:O6	2:AB:96:G:C6	2.68	0.46
3:AC:87:GLU:HG3	3:AC:94:VAL:HG11	1.97	0.46
3:AC:97:GLU:HB3	3:AC:126:LYS:HZ2	1.80	0.46
4:AD:90:ALA:HA	4:AD:91:ARG:HH11	1.75	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:120:GLY:H	4:AD:131:LEU:CD1	2.29	0.46
5:AE:8:LYS:HG3	5:AE:24:THR:HG21	1.97	0.46
5:AE:52:LEU:CB	5:AE:73:GLU:O	2.57	0.46
5:AE:196:VAL:HG13	5:AE:197:ILE:H	1.77	0.46
6:AF:118:ALA:C	6:AF:122:LYS:HB2	2.41	0.46
6:AF:157:VAL:O	6:AF:158:THR:CB	2.63	0.46
6:AF:200:GLU:O	6:AF:203:GLN:N	2.49	0.46
8:AH:93:GLY:O	8:AH:107:VAL:HB	2.16	0.46
8:AH:135:GLY:C	8:AH:136:ILE:HG22	2.39	0.46
10:AJ:55:VAL:N	10:AJ:56:GLU:HA	2.31	0.46
10:AJ:64:SER:C	10:AJ:65:PHE:CD1	2.92	0.46
12:AL:52:VAL:O	12:AL:53:LYS:CB	2.64	0.46
12:AL:63:VAL:CG2	12:AL:82:ASN:N	2.79	0.46
12:AL:122:LEU:HA	17:AQ:71:GLY:HA3	1.97	0.46
13:AM:112:LEU:O	13:AM:128:HIS:HE1	1.94	0.46
14:AN:54:MET:SD	14:AN:121:ALA:CB	3.02	0.46
14:AN:79:LEU:O	14:AN:80:GLU:CB	2.63	0.46
14:AN:97:VAL:CA	14:AN:98:LYS:HE2	2.45	0.46
15:AO:51:LEU:HD21	15:AO:70:LEU:CD2	2.39	0.46
15:AO:61:HIS:CE1	15:AO:64:ARG:HE	2.33	0.46
15:AO:88:ARG:C	15:AO:89:ASP:CG	2.80	0.46
17:AQ:48:ILE:CG2	17:AQ:50:ILE:HD11	2.46	0.46
18:AR:48:ALA:C	18:AR:52:ARG:NE	2.73	0.46
19:AS:3:ALA:CA	19:AS:44:LYS:NZ	2.78	0.46
19:AS:69:LYS:HE2	19:AS:70:ILE:HG13	1.97	0.46
20:AT:16:LYS:H	20:AT:16:LYS:CE	2.28	0.46
20:AT:70:TYR:CD1	20:AT:70:TYR:C	2.92	0.46
20:AT:98:LYS:NZ	20:AT:98:LYS:C	2.71	0.46
21:AU:4:ALA:C	25:AY:21:ARG:NH1	2.74	0.46
21:AU:89:ILE:O	21:AU:93:GLU:HG2	2.15	0.46
21:AU:90:GLU:O	21:AU:93:GLU:HG2	2.14	0.46
22:AV:37:VAL:HG22	22:AV:39:VAL:HG21	1.97	0.46
22:AV:41:GLY:C	22:AV:42:VAL:HG22	2.40	0.46
22:AV:82:PRO:CG	22:AV:97:ARG:N	2.66	0.46
23:AW:63:ASP:CG	23:AW:64:GLY:H	2.24	0.46
23:AW:130:PRO:O	23:AW:132:ASN:N	2.48	0.46
23:AW:151:HIS:HB3	23:AW:170:THR:CA	2.44	0.46
25:AY:45:ILE:CD1	25:AY:46:ARG:N	2.78	0.46
27:Aa:42:PHE:C	27:Aa:61:ARG:HH12	2.20	0.46
30:Ad:43:THR:CA	30:Ad:46:VAL:HB	2.44	0.46
34:BA:43:C:O5'	49:BT:12:LYS:HG2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:87:A:C8	34:BA:88:C:N1	2.84	0.46
34:BA:175:C:H2'	34:BA:176:C:H6	1.80	0.46
34:BA:208:U:O2	34:BA:208:U:H2'	2.14	0.46
34:BA:258:G:N1	34:BA:259:G:C5	2.84	0.46
34:BA:601:C:O2'	34:BA:602:A:H5'	2.14	0.46
34:BA:629:G:N3	34:BA:630:G:C8	2.84	0.46
34:BA:986:A:H2'	34:BA:987:G:H8	1.81	0.46
34:BA:1061:G:H2'	34:BA:1062:U:O4'	2.15	0.46
34:BA:1095:U:P	34:BA:1108:G:H22	2.38	0.46
34:BA:1419:G:H2'	34:BA:1420:C:H6	1.74	0.46
35:BF:20:GLU:OE2	35:BF:189:ASP:OD2	2.33	0.46
35:BF:132:LYS:HB3	35:BF:132:LYS:NZ	2.29	0.46
35:BF:157:ARG:HG2	35:BF:158:LEU:HD21	1.98	0.46
35:BF:168:THR:O	35:BF:169:LYS:HB2	2.15	0.46
35:BF:217:ARG:HA	35:BF:220:ASP:CG	2.39	0.46
36:BG:46:GLU:HB3	36:BG:47:LEU:CD2	2.38	0.46
37:BH:98:GLU:HG2	37:BH:173:TRP:HE1	1.80	0.46
38:BI:9:LYS:HB3	38:BI:108:ALA:HB1	1.97	0.46
38:BI:105:VAL:HG13	38:BI:132:ALA:HA	1.96	0.46
39:BJ:11:ASN:HB2	39:BJ:84:ASN:HB3	1.97	0.46
40:BK:5:ARG:HB3	40:BK:5:ARG:CZ	2.45	0.46
40:BK:38:LEU:CA	40:BK:41:ARG:HB2	2.45	0.46
41:BL:6:ILE:HG23	41:BL:85:ARG:NH1	2.30	0.46
41:BL:6:ILE:CG2	41:BL:85:ARG:NH1	2.78	0.46
41:BL:9:MET:CG	41:BL:26:VAL:HG11	2.41	0.46
41:BL:84:ARG:C	41:BL:135:CYS:SG	2.98	0.46
41:BL:109:ILE:HG12	41:BL:137:VAL:C	2.40	0.46
41:BL:114:THR:H	41:BL:119:LEU:HD23	1.81	0.46
42:BM:46:ALA:HB1	42:BM:77:ILE:CG2	2.45	0.46
42:BM:97:LYS:HD2	42:BM:102:LEU:HD22	1.98	0.46
43:BN:49:VAL:HG22	47:BR:41:ARG:HB2	1.97	0.46
44:BO:21:ILE:HD11	44:BO:82:VAL:CG1	2.45	0.46
44:BO:79:SER:HA	44:BO:104:GLN:NE2	2.31	0.46
44:BO:87:THR:HA	44:BO:91:ARG:HH12	1.77	0.46
45:BP:86:ARG:HH22	45:BP:119:LYS:HD3	1.80	0.46
46:BQ:29:ARG:CD	46:BQ:64:TRP:HH2	2.12	0.46
46:BQ:66:LEU:H	46:BQ:70:LEU:CB	2.26	0.46
48:BS:15:PHE:N	48:BS:15:PHE:CD2	2.79	0.46
48:BS:36:ILE:CG1	48:BS:59:MET:HE1	2.42	0.46
49:BT:8:ARG:HH12	49:BT:11:SER:CA	2.28	0.46
49:BT:21:VAL:CG2	49:BT:59:TRP:HE1	2.21	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:53:VAL:HG23	49:BT:54:GLU:H	1.78	0.46
55:CA:18:LYS:O	55:CA:19:THR:HG22	2.14	0.46
55:CA:18:LYS:CD	57:CA:701:GCP:H3B2	2.46	0.46
55:CA:223:ILE:H	55:CA:272:ASP:HB3	0.48	0.46
55:CA:319:CYS:C	55:CA:321:LYS:HG3	2.39	0.46
55:CA:398:GLU:O	55:CA:472:TYR:HA	2.14	0.46
55:CA:538:LEU:H	55:CA:539:THR:C	2.23	0.46
55:CA:584:SER:C	55:CA:585:ILE:HG12	2.40	0.46
1:AA:3:U:O4	1:AA:2900:A:C6	2.68	0.46
1:AA:71:A:H4'	1:AA:72:U:C5'	2.23	0.46
1:AA:125:G:N2	30:Ad:10:ARG:CA	2.68	0.46
1:AA:188:G:H2'	1:AA:189:G:C8	2.49	0.46
1:AA:200:U:C3'	1:AA:201:C:H5'	2.46	0.46
1:AA:216:A:N6	1:AA:431:U:H3	2.13	0.46
1:AA:278:A:N7	1:AA:359:A:H2	2.12	0.46
1:AA:298:G:H8	1:AA:298:G:P	2.38	0.46
1:AA:322:A:C4'	1:AA:341:G:H5'	2.44	0.46
1:AA:380:U:H4'	27:Aa:16:CYS:HB3	1.97	0.46
1:AA:408:G:O5'	1:AA:408:G:C8	2.64	0.46
1:AA:483:A:H1'	22:AV:45:VAL:O	2.15	0.46
1:AA:496:G:C6	1:AA:497:A:C5	3.03	0.46
1:AA:570:G:H2'	1:AA:2030:A:C6	2.51	0.46
1:AA:587:C:HO2'	1:AA:588:U:P	2.39	0.46
1:AA:675:A:N6	1:AA:804:A:C4	2.83	0.46
1:AA:744:G:H2'	1:AA:745:G:H8	1.78	0.46
1:AA:746:A:N7	1:AA:2612:C:O5'	2.48	0.46
1:AA:801:G:O2'	1:AA:802:A:P	2.73	0.46
1:AA:825:C:C1'	1:AA:2428:G:N2	2.75	0.46
1:AA:857:C:O2'	24:AX:23:VAL:CB	2.63	0.46
1:AA:878:A:H2	1:AA:879:G:H3'	1.80	0.46
1:AA:1014:U:C2'	1:AA:1015:G:C5'	2.92	0.46
1:AA:1022:G:O6	11:AK:65:LYS:NZ	2.43	0.46
1:AA:1030:G:C2	1:AA:1031:G:C4	3.02	0.46
1:AA:1213:A:H3'	1:AA:1214:A:H8	1.81	0.46
1:AA:1221:C:N4	1:AA:1229:G:O6	2.49	0.46
1:AA:1229:G:C2'	1:AA:1230:C:H5'	2.44	0.46
1:AA:1232:G:C2	1:AA:1233:C:C6	3.04	0.46
1:AA:1275:A:N3	15:AO:16:HIS:ND1	2.63	0.46
1:AA:1308:A:N6	1:AA:1606:G:H1'	2.30	0.46
1:AA:1343:G:C2	1:AA:1405:U:C2	3.03	0.46
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1378:A:C2	1:AA:1380:G:H1'	2.51	0.46
1:AA:1417:C:C2'	1:AA:1418:G:O5'	2.64	0.46
1:AA:1475:G:C8	1:AA:1517:G:N2	2.83	0.46
1:AA:1534:G:H1'	1:AA:1536:A:H62	1.80	0.46
1:AA:1641:A:N7	1:AA:1642:G:C5	2.84	0.46
1:AA:1657:C:C2'	1:AA:1658:C:O4'	2.62	0.46
1:AA:1666:G:H5''	1:AA:1667:G:OP2	2.15	0.46
1:AA:1799:G:H1	4:AD:157:ARG:CZ	2.28	0.46
1:AA:1883:G:H5''	1:AA:1884:A:OP1	2.15	0.46
1:AA:1949:G:N7	1:AA:1950:G:N7	2.63	0.46
1:AA:2009:G:N1	1:AA:2010:G:N7	2.64	0.46
1:AA:2015:A:H8	1:AA:2016:U:C5	2.33	0.46
1:AA:2062:A:C2'	1:AA:2063:C:OP1	2.63	0.46
1:AA:2127:G:N2	1:AA:2128:C:C2	2.83	0.46
1:AA:2128:C:N4	1:AA:2129:C:C4	2.83	0.46
1:AA:2275:C:O2'	1:AA:2276:G:OP2	2.25	0.46
1:AA:2287:A:C2	29:Ac:37:ARG:NH2	2.84	0.46
1:AA:2289:G:H2'	1:AA:2289:G:N3	2.30	0.46
1:AA:2345:G:N2	1:AA:2381:C:H2'	2.31	0.46
1:AA:2459:A:C6	1:AA:2493:U:C4	3.04	0.46
1:AA:2472:G:H22	1:AA:2477:C:P	2.38	0.46
1:AA:2616:C:C2'	1:AA:2617:C:C6	2.97	0.46
1:AA:2696:U:O2'	1:AA:2697:G:C5'	2.63	0.46
1:AA:2823:A:O5'	1:AA:2824:C:OP2	2.32	0.46
2:AB:2:C:C2'	2:AB:3:C:O5'	2.63	0.46
2:AB:68:C:H2'	2:AB:69:G:C8	2.50	0.46
3:AC:102:LYS:HE3	3:AC:107:TRP:CB	2.46	0.46
3:AC:113:VAL:O	3:AC:144:THR:HG22	2.15	0.46
4:AD:168:ARG:HA	4:AD:174:ILE:HD12	1.97	0.46
5:AE:8:LYS:CE	5:AE:8:LYS:C	2.88	0.46
5:AE:38:THR:HG22	5:AE:39:PRO:CD	2.46	0.46
5:AE:40:GLU:C	5:AE:41:LYS:CE	2.87	0.46
5:AE:59:VAL:HB	5:AE:62:PRO:HG2	1.97	0.46
5:AE:178:GLU:H	5:AE:178:GLU:CD	2.17	0.46
6:AF:35:GLU:N	6:AF:38:ARG:HD2	2.30	0.46
6:AF:123:LEU:CG	6:AF:191:ARG:HD3	2.45	0.46
7:AG:3:LEU:HD22	7:AG:4:ASP:OD2	2.14	0.46
7:AG:13:GLU:O	7:AG:17:PRO:CD	2.63	0.46
7:AG:93:THR:O	7:AG:94:LEU:C	2.58	0.46
7:AG:123:ASN:HB2	7:AG:126:ASP:CB	2.45	0.46
8:AH:151:ILE:O	8:AH:152:ARG:O	2.34	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:143:GLN:O	9:AI:147:ALA:CB	2.61	0.46
11:AK:6:PRO:CB	11:AK:41:ASP:HB3	2.45	0.46
11:AK:113:GLY:O	11:AK:116:LEU:N	2.48	0.46
12:AL:23:ARG:HH11	12:AL:23:ARG:CG	2.28	0.46
13:AM:54:GLY:O	31:Ae:12:LYS:CE	2.64	0.46
13:AM:58:THR:CG2	13:AM:60:MET:HG2	2.46	0.46
14:AN:27:VAL:HG13	14:AN:102:VAL:HG21	1.98	0.46
15:AO:116:LEU:HD12	15:AO:118:GLU:HG2	1.97	0.46
16:AP:35:ILE:HG13	16:AP:36:TYR:N	2.31	0.46
17:AQ:24:PRO:CG	17:AQ:25:GLY:H	2.09	0.46
18:AR:40:PHE:HB3	19:AS:78:LYS:CE	2.44	0.46
18:AR:110:VAL:O	18:AR:113:ALA:N	2.47	0.46
19:AS:38:LEU:O	19:AS:39:LEU:O	2.33	0.46
20:AT:25:ARG:O	20:AT:71:VAL:CG1	2.64	0.46
20:AT:94:ASP:OD1	20:AT:94:ASP:N	2.49	0.46
22:AV:21:LYS:HD2	22:AV:23:ARG:HH12	1.80	0.46
23:AW:127:LYS:HD2	23:AW:163:LEU:C	2.40	0.46
25:AY:29:GLU:O	25:AY:33:GLN:OE1	2.33	0.46
27:Aa:40:HIS:HB3	27:Aa:41:PRO:HD2	1.95	0.46
28:Ab:13:LYS:N	28:Ab:13:LYS:CD	2.65	0.46
34:BA:47:C:C4'	34:BA:48:C:C5'	2.86	0.46
34:BA:101:A:C5	34:BA:102:G:N7	2.84	0.46
34:BA:120:A:C8	34:BA:122:G:C5	3.04	0.46
34:BA:196:A:H1'	34:BA:222:U:O4'	2.15	0.46
34:BA:279:A:OP2	50:BU:95:TYR:OH	2.32	0.46
34:BA:343:U:C2'	34:BA:344:A:O5'	2.64	0.46
34:BA:586:C:H1'	34:BA:878:G:O2'	2.15	0.46
34:BA:622:A:N3	34:BA:623:C:O4'	2.48	0.46
34:BA:640:A:C2'	34:BA:641:U:C5'	2.91	0.46
34:BA:664:G:OP1	51:BV:64:ARG:NE	2.25	0.46
34:BA:811:C:C6	34:BA:811:C:C3'	2.98	0.46
34:BA:864:A:H8	34:BA:864:A:O5'	1.99	0.46
34:BA:1045:C:C2'	34:BA:1046:A:H8	2.19	0.46
34:BA:1055:A:H2'	34:BA:1056:U:O5'	2.16	0.46
34:BA:1058:G:N2	43:BN:53:PRO:HG3	2.31	0.46
34:BA:1061:G:N2	34:BA:1197:G:C4	2.83	0.46
34:BA:1095:U:N3	34:BA:1096:C:C5	2.83	0.46
34:BA:1124:G:N2	34:BA:1127:G:C4	2.83	0.46
34:BA:1132:C:C2	34:BA:1133:G:C8	3.03	0.46
34:BA:1153:C:H2'	34:BA:1154:G:H8	1.65	0.46
34:BA:1189:C:H6	34:BA:1189:C:O5'	1.99	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1224:G:O6	34:BA:1322:C:C4'	2.63	0.46
34:BA:1284:C:N3	34:BA:1285:A:C6	2.83	0.46
34:BA:1328:C:OP1	46:BQ:28:ALA:HB1	2.16	0.46
34:BA:1411:C:H2'	34:BA:1412:C:C6	2.50	0.46
34:BA:1532:U:O5'	34:BA:1532:U:H6	1.98	0.46
35:BF:28:PHE:HE1	35:BF:31:TYR:O	1.99	0.46
35:BF:189:ASP:HB2	35:BF:205:ASP:CG	2.40	0.46
36:BG:88:ARG:N	36:BG:101:LEU:HD12	2.30	0.46
37:BH:3:ARG:HG3	37:BH:118:ARG:NE	2.30	0.46
37:BH:30:LYS:HA	37:BH:35:ARG:HG2	1.98	0.46
37:BH:79:PHE:CD2	37:BH:80:GLU:N	2.83	0.46
37:BH:121:VAL:HG11	37:BH:136:PRO:CA	2.45	0.46
37:BH:145:GLU:N	37:BH:184:LYS:HE2	2.31	0.46
39:BJ:12:PRO:HB3	39:BJ:58:GLY:CA	2.23	0.46
39:BJ:41:GLU:N	39:BJ:63:TYR:CD1	2.81	0.46
39:BJ:65:VAL:HG23	39:BJ:66:GLU:C	2.40	0.46
40:BK:69:VAL:HG13	40:BK:135:VAL:N	2.30	0.46
40:BK:113:GLU:HB3	40:BK:118:VAL:HG11	1.98	0.46
40:BK:143:ARG:O	40:BK:145:ALA:O	2.34	0.46
41:BL:9:MET:HE2	41:BL:13:ILE:HD11	1.97	0.46
41:BL:33:GLU:CD	41:BL:59:LEU:HD21	2.40	0.46
41:BL:40:ALA:HB2	41:BL:45:ILE:HD13	1.97	0.46
41:BL:49:GLU:CD	41:BL:60:ARG:HB3	2.40	0.46
41:BL:92:ARG:CG	41:BL:92:ARG:NH1	2.78	0.46
42:BM:125:TYR:HB3	42:BM:126:SER:H	1.58	0.46
44:BO:18:ARG:CD	44:BO:34:ASP:O	2.59	0.46
45:BP:7:ILE:O	45:BP:8:ASN:C	2.58	0.46
45:BP:126:LYS:CD	45:BP:128:ALA:HB3	2.45	0.46
46:BQ:12:ASN:C	46:BQ:44:ARG:C	2.80	0.46
47:BR:45:ARG:HG3	47:BR:46:GLU:N	2.31	0.46
48:BS:18:PHE:CD1	48:BS:18:PHE:O	2.68	0.46
48:BS:18:PHE:O	48:BS:20:GLY:N	2.48	0.46
49:BT:32:TYR:O	49:BT:33:ILE:C	2.57	0.46
49:BT:53:VAL:HA	49:BT:79:VAL:CG2	2.45	0.46
50:BU:6:LEU:HD12	50:BU:6:LEU:O	2.15	0.46
50:BU:7:THR:CG2	50:BU:56:VAL:CG1	2.85	0.46
50:BU:75:ARG:NH1	50:BU:75:ARG:HG2	2.30	0.46
51:BV:52:PRO:CG	51:BV:54:ARG:HB3	2.45	0.46
52:BW:12:ASP:C	52:BW:14:HIS:N	2.73	0.46
53:BX:23:ARG:NH2	53:BX:24:LEU:HD23	2.31	0.46
53:BX:57:ARG:HH11	53:BX:57:ARG:HG2	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:6:ARG:N	55:CA:69:ARG:HB3	2.27	0.46
55:CA:57:LEU:CD2	55:CA:71:ASN:CG	2.85	0.46
55:CA:215:ASN:C	55:CA:217:TYR:N	2.73	0.46
55:CA:318:PHE:HE2	55:CA:519:TYR:HE1	1.19	0.46
55:CA:325:PHE:C	55:CA:378:PHE:CD1	2.93	0.46
55:CA:402:ASN:O	55:CA:403:VAL:HG22	2.15	0.46
55:CA:407:VAL:CA	55:CA:436:ARG:NH1	2.76	0.46
55:CA:495:LYS:HA	55:CA:516:ALA:O	2.15	0.46
1:AA:179:G:C5'	30:Ad:32:LYS:HZ3	2.26	0.46
1:AA:204:A:O2'	1:AA:205:G:O5'	2.29	0.46
1:AA:297:C:C5'	22:AV:83:THR:CG2	2.93	0.46
1:AA:304:G:O2'	1:AA:305:U:H5'	2.15	0.46
1:AA:323:G:OP2	1:AA:340:A:N1	2.49	0.46
1:AA:333:G:C2	1:AA:334:C:C6	3.03	0.46
1:AA:416:C:C4	1:AA:417:C:C4	3.03	0.46
1:AA:463:G:O2'	1:AA:464:U:C5	2.67	0.46
1:AA:464:U:C4	1:AA:465:G:O6	2.68	0.46
1:AA:476:G:H22	1:AA:478:A:H3'	1.81	0.46
1:AA:485:C:C4	1:AA:486:C:C5	3.03	0.46
1:AA:531:C:C4'	1:AA:532:A:N3	2.79	0.46
1:AA:757:U:C2'	1:AA:758:C:O5'	2.64	0.46
1:AA:813:U:OP2	13:AM:26:GLY:CA	2.57	0.46
1:AA:858:U:O3'	1:AA:859:G:O4'	2.34	0.46
1:AA:881:G:H2'	1:AA:881:G:N3	2.30	0.46
1:AA:884:C:H2'	1:AA:885:C:O5'	2.05	0.46
1:AA:976:C:C4'	1:AA:1156:A:N7	2.78	0.46
1:AA:1050:A:N6	1:AA:2751:G:N9	2.64	0.46
1:AA:1178:C:N3	1:AA:1179:C:N4	2.63	0.46
1:AA:1186:G:H2'	1:AA:1187:G:O4'	2.14	0.46
1:AA:1203:G:C2	1:AA:1206:G:N1	2.84	0.46
1:AA:1227:A:C8	1:AA:1227:A:C3'	2.97	0.46
1:AA:1228:G:N1	1:AA:1229:G:C5	2.84	0.46
1:AA:1264:G:C3'	1:AA:1264:G:C8	2.99	0.46
1:AA:1268:A:OP2	1:AA:2006:C:OP2	2.33	0.46
1:AA:1287:A:H8	15:AO:104:ARG:NH1	2.13	0.46
1:AA:1422:G:C4	1:AA:1423:G:C8	3.03	0.46
1:AA:1432:C:N3	1:AA:1433:U:O2	2.48	0.46
1:AA:1433:U:C6	1:AA:1433:U:C3'	2.98	0.46
1:AA:1434:A:C2	1:AA:1435:G:C8	3.04	0.46
1:AA:1559:G:C2	1:AA:1560:G:O5'	2.69	0.46
1:AA:1589:C:O2'	1:AA:1590:U:H5'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1661:G:C2	1:AA:2000:G:C4	3.04	0.46
1:AA:1743:G:C5	1:AA:1746:G:C8	3.04	0.46
1:AA:1754:C:OP1	17:AQ:98:LYS:HD2	2.15	0.46
1:AA:1831:G:C6	1:AA:1832:C:C4	3.04	0.46
1:AA:1920:C:C2	1:AA:1921:G:N7	2.84	0.46
1:AA:1966:A:C2'	1:AA:1967:C:OP2	2.63	0.46
1:AA:1980:G:C6	1:AA:1982:C:C4	3.04	0.46
1:AA:2092:U:H2'	1:AA:2092:U:O2	2.15	0.46
1:AA:2242:G:C6	1:AA:2243:U:C4	3.04	0.46
1:AA:2246:G:N2	1:AA:2247:A:C2	2.83	0.46
1:AA:2257:U:OP1	24:AX:11:ARG:CZ	2.63	0.46
1:AA:2401:U:H2'	1:AA:2402:C:O4'	2.15	0.46
1:AA:2407:G:N3	1:AA:2407:G:H2'	2.31	0.46
1:AA:2729:G:H2'	1:AA:2730:C:H5'	1.97	0.46
1:AA:2745:C:C2	1:AA:2746:U:C5	3.04	0.46
1:AA:2759:G:C2	1:AA:2760:C:C6	3.04	0.46
1:AA:2826:A:H2'	1:AA:2827:C:O5'	2.15	0.46
1:AA:2826:A:H2'	1:AA:2827:C:C5'	2.46	0.46
1:AA:2826:A:C5	1:AA:2827:C:C5	3.03	0.46
1:AA:2836:U:C6	1:AA:2883:A:N6	2.84	0.46
1:AA:2876:G:N3	1:AA:2877:G:C8	2.84	0.46
2:AB:78:A:C6	2:AB:99:A:N6	2.83	0.46
2:AB:81:G:O6	2:AB:96:G:O6	2.33	0.46
2:AB:118:G:H2'	2:AB:119:A:H8	1.80	0.46
3:AC:59:ARG:HB2	3:AC:164:ARG:HG2	1.96	0.46
3:AC:199:HIS:O	3:AC:200:LYS:C	2.59	0.46
4:AD:68:LYS:HB3	4:AD:70:TRP:CE2	2.48	0.46
4:AD:75:ILE:O	4:AD:76:PRO:O	2.32	0.46
4:AD:118:VAL:O	4:AD:129:ASN:CB	2.63	0.46
4:AD:174:ILE:HD11	4:AD:184:LYS:HE3	1.93	0.46
4:AD:261:LYS:C	4:AD:263:ARG:H	2.23	0.46
5:AE:36:ARG:CD	5:AE:41:LYS:NZ	2.69	0.46
5:AE:38:THR:O	5:AE:39:PRO:C	2.56	0.46
6:AF:63:LYS:C	6:AF:64:ILE:CG2	2.88	0.46
6:AF:125:LEU:HB2	6:AF:194:MET:O	2.14	0.46
7:AG:9:ARG:HH11	7:AG:9:ARG:CG	2.25	0.46
7:AG:47:LYS:CE	7:AG:73:ALA:CB	2.88	0.46
7:AG:72:ARG:O	7:AG:73:ALA:HB2	2.16	0.46
7:AG:103:LEU:HD11	7:AG:107:LEU:HD23	1.98	0.46
7:AG:124:SER:OG	7:AG:132:ASN:O	2.32	0.46
7:AG:144:ILE:HG23	7:AG:145:THR:N	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:49:ALA:O	9:AI:90:ALA:CB	2.63	0.46
9:AI:129:PRO:C	9:AI:131:MET:N	2.73	0.46
10:AJ:76:TYR:CE1	10:AJ:80:LYS:CE	2.99	0.46
11:AK:112:LEU:O	11:AK:115:ARG:N	2.48	0.46
13:AM:52:GLU:O	13:AM:55:ARG:CB	2.63	0.46
13:AM:57:THR:O	13:AM:58:THR:CB	2.63	0.46
14:AN:40:ALA:HA	14:AN:98:LYS:CG	2.40	0.46
14:AN:43:THR:OG1	14:AN:46:GLN:N	2.48	0.46
14:AN:62:GLY:N	23:AW:177:PRO:HA	2.31	0.46
15:AO:33:ARG:CA	15:AO:115:GLU:HB3	2.42	0.46
15:AO:103:ARG:HB2	15:AO:108:GLY:HA2	1.97	0.46
16:AP:97:ARG:NH1	16:AP:97:ARG:CG	2.79	0.46
17:AQ:61:PHE:CD1	17:AQ:81:PRO:HD3	2.40	0.46
20:AT:88:ARG:CA	20:AT:88:ARG:HE	2.26	0.46
22:AV:49:VAL:N	22:AV:56:PRO:HG3	2.29	0.46
23:AW:19:ARG:HH21	23:AW:84:GLU:HA	1.80	0.46
24:AX:72:ARG:O	24:AX:73:GLY:O	2.34	0.46
24:AX:74:ARG:HD2	24:AX:75:LEU:HD12	1.97	0.46
25:AY:19:LEU:HD22	25:AY:23:LYS:HG3	1.98	0.46
25:AY:48:LEU:CD1	25:AY:51:GLN:HE22	2.29	0.46
26:AZ:17:LYS:O	26:AZ:18:ASP:C	2.59	0.46
27:Aa:54:GLY:O	27:Aa:55:ARG:HB3	2.16	0.46
30:Ad:1:MET:O	30:Ad:2:LYS:C	2.58	0.46
32:Af:10:ILE:HD12	32:Af:14:CYS:HB3	1.97	0.46
33:Ag:315:UNK:O	33:Ag:320:UNK:N	2.49	0.46
34:BA:93:U:H2'	34:BA:95:G:N7	2.31	0.46
34:BA:174:C:C2	34:BA:175:C:H5	2.32	0.46
34:BA:186(D):C:H2'	34:BA:186(E):C:C5	2.46	0.46
34:BA:217:C:N4	34:BA:218:C:N4	2.64	0.46
34:BA:307:C:C4	34:BA:308:C:C5	2.82	0.46
34:BA:311:C:HO2'	34:BA:312:C:H5'	1.79	0.46
34:BA:322:C:C2'	34:BA:323:U:H5'	2.46	0.46
34:BA:415:A:H2'	34:BA:416:G:O4'	2.16	0.46
34:BA:452:A:C6	34:BA:453:A:C6	3.03	0.46
34:BA:515:G:H3'	34:BA:516:U:C6	2.51	0.46
34:BA:540:G:N2	37:BH:42:GLN:NE2	2.56	0.46
34:BA:587:G:N2	34:BA:755:G:C4	2.82	0.46
34:BA:706:A:C2	34:BA:707:C:N1	2.84	0.46
34:BA:709:G:C4	34:BA:710:G:C8	3.03	0.46
34:BA:766:A:C2	34:BA:767:A:C4	3.03	0.46
34:BA:802:A:H2'	34:BA:803:G:O4'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:815:A:C6	34:BA:1529:G:C2	3.03	0.46
34:BA:866:C:H6	34:BA:867:G:C1'	2.27	0.46
34:BA:880:C:O2'	34:BA:881:G:H5'	2.15	0.46
34:BA:901:A:N3	34:BA:902:G:O4'	2.48	0.46
34:BA:958:A:H2'	34:BA:959:A:O4'	2.16	0.46
34:BA:1134:G:N2	34:BA:1136:U:C4	2.84	0.46
34:BA:1148:U:O2	34:BA:1148:U:C2'	2.58	0.46
34:BA:1193:G:C8	34:BA:1193:G:C3'	2.98	0.46
34:BA:1269:A:H2'	34:BA:1270:C:O4'	2.15	0.46
34:BA:1302:U:C3'	34:BA:1303:C:H5'	2.45	0.46
34:BA:1312:G:N2	34:BA:1326:C:C6	2.82	0.46
34:BA:1317:C:C5	34:BA:1317:C:OP1	2.68	0.46
34:BA:1319:A:N1	34:BA:1361:G:N2	2.63	0.46
34:BA:1343:G:C5	34:BA:1344:C:C4	3.04	0.46
34:BA:1405:G:H1'	34:BA:1518:A:O2'	2.15	0.46
34:BA:1409:C:H2'	34:BA:1410:G:H8	1.81	0.46
34:BA:1449:C:C4	34:BA:1454:G:N1	2.77	0.46
34:BA:1451:A:H5''	34:BA:1452:C:C5	2.50	0.46
34:BA:1479:C:H2'	34:BA:1480:G:C8	2.50	0.46
35:BF:33:TYR:CB	35:BF:43:ASP:HB2	2.45	0.46
35:BF:92:TYR:HE2	35:BF:151:GLY:C	2.22	0.46
35:BF:125:PRO:C	35:BF:127:ILE:HG13	2.40	0.46
36:BG:23:TYR:CE1	43:BN:10:GLY:C	2.94	0.46
36:BG:29:TYR:CD1	47:BR:36:PHE:CE1	3.03	0.46
36:BG:30:ARG:HG2	36:BG:30:ARG:HH11	1.81	0.46
36:BG:35:GLU:CD	36:BG:95:THR:HG21	2.40	0.46
36:BG:116:VAL:HG21	36:BG:141:VAL:HG22	1.97	0.46
36:BG:172:ARG:NH1	36:BG:172:ARG:HB3	2.31	0.46
37:BH:3:ARG:NH1	37:BH:118:ARG:CZ	2.78	0.46
37:BH:20:TYR:HA	37:BH:31:CYS:SG	2.55	0.46
37:BH:38:TYR:CZ	37:BH:45:GLN:NE2	2.83	0.46
38:BI:34:VAL:CG2	38:BI:62:ALA:CB	2.91	0.46
38:BI:79:GLU:HA	38:BI:91:LEU:HD23	1.98	0.46
38:BI:91:LEU:HD12	38:BI:118:ILE:HG21	1.97	0.46
39:BJ:1:MET:CA	39:BJ:67:MET:O	2.64	0.46
39:BJ:12:PRO:O	39:BJ:14:LEU:N	2.48	0.46
39:BJ:59:TYR:C	39:BJ:60:PHE:CD1	2.93	0.46
41:BL:39:LEU:C	41:BL:39:LEU:CD1	2.88	0.46
41:BL:48:TYR:HB3	41:BL:61:VAL:HG22	1.93	0.46
42:BM:49:PRO:CD	42:BM:78:LYS:HZ3	2.25	0.46
42:BM:113:LYS:HD2	42:BM:113:LYS:H	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:119:ALA:O	42:BM:120:ARG:CB	2.64	0.46
43:BN:55:LYS:HG3	43:BN:55:LYS:O	2.16	0.46
44:BO:84:VAL:HG11	51:BV:88:LYS:HE2	1.98	0.46
44:BO:87:THR:CG2	44:BO:91:ARG:HH12	2.23	0.46
45:BP:46:LYS:CE	45:BP:47:LYS:NZ	2.75	0.46
46:BQ:22:ILE:HG22	46:BQ:23:TYR:N	2.30	0.46
46:BQ:95:GLY:O	46:BQ:111:LYS:N	2.49	0.46
46:BQ:96:LEU:HD13	46:BQ:103:THR:CG2	2.45	0.46
48:BS:33:THR:O	48:BS:37:ASN:ND2	2.47	0.46
48:BS:35:ARG:O	48:BS:36:ILE:C	2.58	0.46
48:BS:75:PRO:HA	48:BS:78:TYR:CG	2.50	0.46
49:BT:4:ILE:HG12	49:BT:66:PRO:CA	2.44	0.46
49:BT:56:ALA:HB1	49:BT:79:VAL:HG11	1.92	0.46
49:BT:71:ARG:HB2	49:BT:71:ARG:CZ	2.46	0.46
50:BU:35:VAL:C	50:BU:36:ILE:HD13	2.40	0.46
51:BV:25:THR:HG22	51:BV:42:ARG:NH2	2.31	0.46
52:BW:20:LEU:C	52:BW:21:GLU:HG2	2.40	0.46
53:BX:50:GLU:CB	53:BX:99:LEU:HD12	2.46	0.46
54:BY:15:ARG:HB3	54:BY:17:THR:HG23	1.97	0.46
55:CA:6:ARG:NH1	55:CA:196:ALA:HB2	2.30	0.46
55:CA:40:GLU:OE1	55:CA:41:ARG:HG3	2.15	0.46
55:CA:117:PHE:C	55:CA:119:TYR:N	2.73	0.46
55:CA:302:VAL:O	55:CA:302:VAL:HG23	2.15	0.46
55:CA:497:VAL:HG22	55:CA:514:HIS:HE1	1.80	0.46
1:AA:117:G:C5	1:AA:119:A:N6	2.84	0.46
1:AA:141:A:N3	1:AA:1596:A:O2'	2.41	0.46
1:AA:215:G:C1'	1:AA:216:A:H4'	2.46	0.46
1:AA:236:C:C2'	1:AA:237:C:O5'	2.62	0.46
1:AA:245:G:C5	1:AA:246:C:C5	2.96	0.46
1:AA:273:G:C5	1:AA:273(A):G:N7	2.83	0.46
1:AA:350:U:N3	1:AA:351:G:O6	2.49	0.46
1:AA:354:G:O2'	1:AA:355:G:O4'	2.31	0.46
1:AA:400:G:O6	27:Aa:63:TYR:CE1	2.68	0.46
1:AA:427:U:O2'	1:AA:428:A:H1'	2.16	0.46
1:AA:459:U:H5	1:AA:469:G:C2	2.33	0.46
1:AA:469:G:N1	30:Ad:40:TRP:CZ2	2.83	0.46
1:AA:518:G:C4'	20:AT:18:ARG:NH2	2.76	0.46
1:AA:658:C:C2	1:AA:659:C:C5	3.04	0.46
1:AA:666:G:H3'	1:AA:666:G:P	2.55	0.46
1:AA:729:G:C6	1:AA:730:C:C2	3.03	0.46
1:AA:756:C:C4	1:AA:757:U:C6	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:814:C:C2'	1:AA:1224:G:H22	2.29	0.46
1:AA:831:G:H5'	13:AM:35:HIS:HB3	1.97	0.46
1:AA:831:G:N3	1:AA:831:G:H2'	2.29	0.46
1:AA:918:A:H2	1:AA:919:G:C8	2.33	0.46
1:AA:959:A:C6	1:AA:960:A:C6	3.03	0.46
1:AA:1106:G:H2'	1:AA:1107:G:H8	1.68	0.46
1:AA:1229:G:C5	1:AA:1230:C:C2	3.03	0.46
1:AA:1243:G:N1	1:AA:1244:G:C4	2.84	0.46
1:AA:1361:G:C4	1:AA:1362:C:C5	3.04	0.46
1:AA:1416:G:H2'	1:AA:1417:C:C5	2.49	0.46
1:AA:1449:A:H4'	1:AA:1542:G:H21	1.80	0.46
1:AA:1451:C:C5'	1:AA:1453:A:OP2	2.59	0.46
1:AA:1458:C:C4'	1:AA:1459:G:C8	2.92	0.46
1:AA:1464:C:O2'	1:AA:1465:G:C5'	2.64	0.46
1:AA:1472:A:HO2'	1:AA:1473:G:H8	1.64	0.46
1:AA:1496:A:C4	1:AA:1577:C:O2'	2.69	0.46
1:AA:1517:G:H2'	1:AA:1518:C:O4'	2.14	0.46
1:AA:1521:G:C3'	1:AA:1522:G:C5'	2.94	0.46
1:AA:1522:G:H2'	1:AA:1523:U:C6	2.51	0.46
1:AA:1534:G:N3	1:AA:1536:A:N7	2.63	0.46
1:AA:1613:G:H2'	1:AA:1617:C:N4	2.29	0.46
1:AA:1630:G:N1	1:AA:1637:A:C6	2.84	0.46
1:AA:1638:C:C4'	1:AA:2710:C:H1'	2.45	0.46
1:AA:1725:G:C2	1:AA:1726:G:C8	3.04	0.46
1:AA:1731:G:N3	1:AA:1732:A:OP2	2.49	0.46
1:AA:1743:G:C4	1:AA:1746:G:C8	3.04	0.46
1:AA:1767:C:O2'	1:AA:1768:U:H5'	2.16	0.46
1:AA:1804:C:C2'	1:AA:1805:U:O5'	2.64	0.46
1:AA:1889:A:C2	1:AA:1890:A:C5	3.03	0.46
1:AA:1928:A:H2'	1:AA:1929:G:O4'	2.15	0.46
1:AA:1939:U:O2'	1:AA:2592:G:H1'	2.15	0.46
1:AA:1996:C:H2'	5:AE:123:ALA:HB3	1.97	0.46
1:AA:2060:A:OP2	6:AF:72:ARG:HA	2.16	0.46
1:AA:2111:C:N4	1:AA:2144:U:O2'	2.45	0.46
1:AA:2125:G:OP1	3:AC:40:THR:CG2	2.63	0.46
1:AA:2191:G:N2	1:AA:2192:G:C4	2.83	0.46
1:AA:2244:U:O2'	1:AA:2245:U:O5'	2.33	0.46
1:AA:2246:G:H2'	1:AA:2247:A:N7	2.29	0.46
1:AA:2259:G:C4'	1:AA:2427:C:H2'	2.46	0.46
1:AA:2278:A:C2	1:AA:2279:G:C4	3.03	0.46
1:AA:2327:A:C4	1:AA:2328:A:C8	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2345:G:N2	1:AA:2381:C:H3'	2.31	0.46
1:AA:2366:A:H3'	1:AA:2367:G:H8	1.80	0.46
1:AA:2373:G:OP2	1:AA:2373:G:C8	2.68	0.46
1:AA:2425:A:OP1	1:AA:2427:C:O4'	2.34	0.46
1:AA:2443:C:C2	1:AA:2444:G:N7	2.83	0.46
1:AA:2478:A:C5	1:AA:2479:G:C8	3.04	0.46
1:AA:2547:U:H6	1:AA:2547:U:H5''	1.81	0.46
1:AA:2553:G:C5'	1:AA:2554:U:OP2	2.63	0.46
1:AA:2611:U:H6	1:AA:2611:U:C5'	2.26	0.46
1:AA:2635:C:H5''	5:AE:78:LEU:HD13	1.97	0.46
1:AA:2645:G:OP2	1:AA:2645:G:O4'	2.33	0.46
1:AA:2690:C:O2'	1:AA:2691:C:C5'	2.63	0.46
1:AA:2691:C:N4	1:AA:2719:G:N2	2.64	0.46
1:AA:2691:C:C4'	1:AA:2872:G:N7	2.78	0.46
1:AA:2812:G:C4	1:AA:2813:A:N7	2.83	0.46
1:AA:2815:C:O2'	28:Ab:42:PRO:HB3	2.16	0.46
1:AA:2880:C:H2'	1:AA:2881:C:H6	1.81	0.46
1:AA:2892:A:O2'	1:AA:2894:G:OP2	2.32	0.46
1:AA:2898:U:C2	1:AA:2899:G:C8	3.04	0.46
2:AB:15:A:N3	2:AB:109:G:H1'	2.30	0.46
2:AB:49:C:H2'	2:AB:50:G:O4'	2.15	0.46
2:AB:76:G:C5'	23:AW:85:HIS:ND1	2.74	0.46
3:AC:8:ARG:NH1	3:AC:11:LEU:CD2	2.78	0.46
3:AC:87:GLU:HG3	3:AC:94:VAL:CB	2.46	0.46
4:AD:246:PRO:CG	4:AD:252:TRP:HA	2.44	0.46
4:AD:256:GLY:O	4:AD:257:LEU:CG	2.64	0.46
5:AE:195:LEU:HD13	5:AE:195:LEU:C	2.30	0.46
6:AF:31:HIS:HB3	13:AM:11:GLY:H	1.81	0.46
6:AF:31:HIS:CE1	13:AM:14:LYS:HE3	2.51	0.46
6:AF:65:TRP:HE1	6:AF:73:ALA:CB	2.17	0.46
7:AG:174:GLU:OE2	7:AG:175:LEU:CG	2.61	0.46
8:AH:24:VAL:CG2	8:AH:35:VAL:HG23	2.35	0.46
8:AH:105:LEU:N	8:AH:105:LEU:CD2	2.64	0.46
9:AI:49:ALA:C	9:AI:51:LEU:N	2.73	0.46
9:AI:143:GLN:C	9:AI:147:ALA:HB3	2.40	0.46
9:AI:148:GLU:HA	33:Ag:10:UNK:CB	2.45	0.46
10:AJ:10:LEU:H	10:AJ:56:GLU:HG2	1.78	0.46
10:AJ:55:VAL:HB	10:AJ:56:GLU:CA	2.39	0.46
11:AK:17:ASP:HB3	11:AK:21:LYS:HZ1	1.80	0.46
11:AK:58:ASP:OD1	11:AK:59:LYS:HE3	2.15	0.46
12:AL:11:ALA:HB3	12:AL:97:ARG:NH1	2.28	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:113:LYS:NZ	12:AL:113:LYS:O	2.48	0.46
13:AM:46:LYS:CB	13:AM:49:ARG:NH2	2.78	0.46
13:AM:49:ARG:HD3	31:Ae:52:LYS:HE3	1.97	0.46
13:AM:56:SER:O	31:Ae:13:ARG:NH1	2.49	0.46
13:AM:79:ARG:HE	13:AM:83:VAL:CG1	2.29	0.46
13:AM:128:HIS:CG	13:AM:129:ALA:N	2.74	0.46
14:AN:48:GLU:O	14:AN:49:ALA:C	2.57	0.46
14:AN:56:ARG:O	14:AN:57:HIS:C	2.54	0.46
14:AN:67:ARG:NH2	14:AN:103:MET:O	2.49	0.46
15:AO:27:SER:O	15:AO:30:THR:HB	2.15	0.46
15:AO:50:HIS:O	15:AO:53:HIS:CB	2.60	0.46
15:AO:67:LEU:C	15:AO:69:ASP:N	2.71	0.46
16:AP:49:VAL:HB	16:AP:80:LEU:HD12	1.95	0.46
16:AP:77:ALA:CA	16:AP:80:LEU:HB2	2.46	0.46
17:AQ:51:ARG:NH1	17:AQ:114:LEU:CD1	2.76	0.46
18:AR:33:ARG:O	18:AR:34:LYS:C	2.57	0.46
18:AR:66:ASN:HA	18:AR:76:TYR:CE1	2.51	0.46
18:AR:102:GLU:HA	18:AR:103:PRO:HD2	1.56	0.46
20:AT:10:VAL:CB	20:AT:12:ILE:HD11	2.45	0.46
20:AT:58:ALA:CB	20:AT:69:LEU:HD21	2.45	0.46
20:AT:85:VAL:HG12	20:AT:95:ILE:CG2	2.46	0.46
21:AU:18:TYR:CZ	21:AU:96:ILE:HG12	2.51	0.46
22:AV:15:VAL:HG12	22:AV:16:ALA:N	2.30	0.46
22:AV:27:VAL:O	22:AV:35:TYR:HA	2.16	0.46
22:AV:37:VAL:O	22:AV:37:VAL:HG22	2.15	0.46
22:AV:47:LYS:HB3	22:AV:49:VAL:HG13	1.96	0.46
24:AX:50:ASN:HB2	24:AX:81:VAL:CB	2.46	0.46
26:AZ:30:ARG:O	26:AZ:32:GLN:N	2.49	0.46
27:Aa:20:ASN:CB	27:Aa:30:GLU:OE1	2.64	0.46
27:Aa:49:PHE:CD1	27:Aa:49:PHE:N	2.84	0.46
27:Aa:58:ARG:H	27:Aa:61:ARG:HH12	1.63	0.46
28:Ab:19:ARG:O	28:Ab:20:ARG:C	2.58	0.46
31:Ae:9:GLY:C	31:Ae:14:VAL:HG11	2.40	0.46
34:BA:9:G:C8	38:BI:126:ARG:NH1	2.84	0.46
34:BA:112:G:H5'	34:BA:389:A:C4'	2.30	0.46
34:BA:112:G:C2	34:BA:113:G:C8	3.03	0.46
34:BA:113:G:H2'	34:BA:114:U:H6	1.76	0.46
34:BA:151:A:O2'	34:BA:152:A:H5'	2.16	0.46
34:BA:193:C:O2'	34:BA:194:C:H5'	2.14	0.46
34:BA:390:C:C2'	34:BA:391:G:O5'	2.64	0.46
34:BA:438:G:C5'	37:BH:123:HIS:HB3	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:443:C:C6	34:BA:492:G:N2	2.83	0.46
34:BA:523:A:O2'	34:BA:525:C:H5	1.98	0.46
34:BA:538:G:OP1	45:BP:114:LYS:HB2	2.16	0.46
34:BA:563:A:C2	34:BA:567:G:C5	3.04	0.46
34:BA:625:G:H2'	34:BA:626:U:C6	2.50	0.46
34:BA:657:G:N2	34:BA:750:G:C8	2.83	0.46
34:BA:689:C:OP2	44:BO:55:LYS:NZ	2.49	0.46
34:BA:734:G:H8	34:BA:734:G:OP1	1.99	0.46
34:BA:801:U:H2'	34:BA:802:A:C8	2.50	0.46
34:BA:931:C:H2'	34:BA:932:C:C6	2.51	0.46
34:BA:946:A:C3'	34:BA:947:G:H8	2.29	0.46
34:BA:965:A:O2'	34:BA:966:G:P	2.74	0.46
34:BA:1049:U:O2'	34:BA:1050:G:OP2	2.32	0.46
34:BA:1164:G:H2'	34:BA:1165:C:C6	2.50	0.46
34:BA:1183:A:H2'	34:BA:1184:G:OP1	2.15	0.46
34:BA:1191:A:C5'	36:BG:4:LYS:HZ2	2.28	0.46
34:BA:1332:A:H3'	34:BA:1333:A:C8	2.51	0.46
34:BA:1363:A:N3	34:BA:1365:G:N1	2.63	0.46
34:BA:1374:A:H2'	34:BA:1375:A:O5'	2.16	0.46
34:BA:1405:G:N3	34:BA:1406:U:C5	2.84	0.46
34:BA:1426:C:O2'	34:BA:1427:U:H5'	2.15	0.46
34:BA:1448:C:H2'	34:BA:1449:C:O5'	2.16	0.46
35:BF:109:SER:O	35:BF:111:ARG:N	2.49	0.46
36:BG:157:ILE:HG13	36:BG:164:ARG:CD	2.46	0.46
37:BH:4:TYR:HE2	37:BH:8:VAL:HG22	1.80	0.46
37:BH:57:ARG:CB	37:BH:206:PHE:HB2	2.33	0.46
38:BI:94:ALA:HB3	38:BI:117:ASP:O	2.15	0.46
38:BI:149:GLU:HA	38:BI:149:GLU:OE2	2.15	0.46
39:BJ:14:LEU:HD11	39:BJ:19:LEU:CA	2.43	0.46
39:BJ:21:LEU:O	39:BJ:25:ILE:HG13	2.15	0.46
39:BJ:65:VAL:O	39:BJ:67:MET:CE	2.63	0.46
39:BJ:82:ARG:O	39:BJ:83:ASP:C	2.59	0.46
41:BL:20:TYR:CE2	41:BL:75:ARG:HD2	2.51	0.46
41:BL:41:ARG:HH11	41:BL:41:ARG:CB	2.27	0.46
41:BL:49:GLU:OE1	41:BL:49:GLU:C	2.59	0.46
41:BL:54:ASP:O	41:BL:56:LYS:CD	2.62	0.46
42:BM:49:PRO:HB2	42:BM:82:ALA:CA	2.46	0.46
42:BM:115:GLY:C	42:BM:117:HIS:N	2.73	0.46
43:BN:40:LEU:CB	43:BN:69:ASN:HB2	2.46	0.46
44:BO:33:THR:HB	44:BO:38:ASN:O	2.14	0.46
44:BO:57:THR:O	44:BO:58:PRO:C	2.58	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:60:ALA:O	44:BO:61:ALA:C	2.58	0.46
45:BP:102:ARG:CZ	45:BP:110:VAL:N	2.78	0.46
45:BP:110:VAL:HB	45:BP:113:ARG:HG3	1.98	0.46
46:BQ:14:ARG:HG3	46:BQ:17:VAL:CG2	2.38	0.46
46:BQ:25:ILE:HA	46:BQ:29:ARG:CG	2.45	0.46
46:BQ:38:GLY:O	46:BQ:39:ILE:HG23	2.15	0.46
46:BQ:81:LEU:CB	46:BQ:86:CYS:SG	2.94	0.46
48:BS:40:SER:O	48:BS:41:GLU:C	2.58	0.46
48:BS:63:ARG:NH2	48:BS:87:ILE:HD13	2.26	0.46
49:BT:18:ARG:NH1	49:BT:35:LYS:CB	2.47	0.46
49:BT:19:ILE:HD11	49:BT:39:TYR:HB3	1.97	0.46
50:BU:10:VAL:CG1	50:BU:54:GLY:N	2.74	0.46
50:BU:29:HIS:ND1	50:BU:30:PRO:N	2.62	0.46
55:CA:186:LEU:HD23	55:CA:186:LEU:HA	1.81	0.46
55:CA:253:LYS:CE	55:CA:269:GLU:CB	2.70	0.46
1:AA:19:C:C2	1:AA:20:C:C5	3.04	0.46
1:AA:87:C:H1'	25:AY:46:ARG:HH12	1.81	0.46
1:AA:90:U:H5'	1:AA:91:A:OP1	2.15	0.46
1:AA:137(A):G:O2'	1:AA:138:G:C8	2.68	0.46
1:AA:179:G:C5'	30:Ad:32:LYS:NZ	2.69	0.46
1:AA:199:A:N1	1:AA:2433:A:N3	2.63	0.46
1:AA:270(P):C:O5'	1:AA:270(P):C:H6	1.99	0.46
1:AA:285:C:C4	1:AA:286:C:N4	2.84	0.46
1:AA:287:C:C3'	1:AA:288:C:C5	2.98	0.46
1:AA:290:G:C8	1:AA:290:G:C3'	2.91	0.46
1:AA:301:G:C2'	1:AA:302:C:C6	2.89	0.46
1:AA:323:G:C6	1:AA:333:G:C8	3.03	0.46
1:AA:359:A:O3'	1:AA:360:G:C8	2.68	0.46
1:AA:416:C:C2	1:AA:2407:G:O6	2.69	0.46
1:AA:442:G:O4'	6:AF:46:ARG:HD2	2.16	0.46
1:AA:458:G:O2'	1:AA:469:G:N1	2.47	0.46
1:AA:573:G:H2'	1:AA:574:C:H3'	1.97	0.46
1:AA:718:A:C5'	1:AA:719:C:C5	2.94	0.46
1:AA:749:C:C2	1:AA:1618:A:C5	3.04	0.46
1:AA:783:A:O2'	1:AA:784:A:H5'	2.15	0.46
1:AA:813:U:H2'	1:AA:814:C:C6	2.51	0.46
1:AA:819:A:N3	1:AA:943:U:O2	2.48	0.46
1:AA:975:G:C2	1:AA:976:C:C6	2.99	0.46
1:AA:983:A:C2'	1:AA:984:A:C8	2.97	0.46
1:AA:986:C:C6	1:AA:986:C:H3'	2.51	0.46
1:AA:1047:G:H5''	9:AI:60:ARG:CB	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1072:C:H42	1:AA:1100:C:H41	1.63	0.46
1:AA:1128:A:O2'	1:AA:1129:A:C5'	2.63	0.46
1:AA:1213:A:C2	1:AA:1237:A:H1'	2.50	0.46
1:AA:1265:A:C1'	1:AA:1267:U:C4	2.91	0.46
1:AA:1342:A:C8	1:AA:1342:A:O5'	2.69	0.46
1:AA:1410:G:C2	1:AA:1593:G:C2	3.04	0.46
1:AA:1522:G:H3'	1:AA:1522:G:H8	1.80	0.46
1:AA:1546:C:H6	1:AA:1546:C:O5'	1.99	0.46
1:AA:1658:C:H2'	1:AA:1658:C:O2	2.15	0.46
1:AA:1700:A:H2'	1:AA:1701:A:O4'	2.16	0.46
1:AA:1801:G:O6	1:AA:2207:C:H1'	2.16	0.46
1:AA:1811:G:H2'	1:AA:1812:A:C8	2.50	0.46
1:AA:1853:A:C2	1:AA:2087:G:N3	2.84	0.46
1:AA:1878:G:C5	1:AA:1879:C:C5	3.03	0.46
1:AA:1882:C:C2	1:AA:1883:G:H1'	2.49	0.46
1:AA:1954:G:O2'	1:AA:1956:U:C4	2.64	0.46
1:AA:1964:G:C5	1:AA:1967:C:H5	2.34	0.46
1:AA:2054:A:H62	1:AA:2577:A:N6	2.07	0.46
1:AA:2157:G:OP2	1:AA:2157:G:C2	2.69	0.46
1:AA:2195:C:O2	1:AA:2196:C:H1'	2.15	0.46
1:AA:2230:G:C6	1:AA:2231:C:C4	3.04	0.46
1:AA:2249:U:C2'	1:AA:2250:G:OP1	2.63	0.46
1:AA:2377:A:C4	1:AA:2378:A:N7	2.83	0.46
1:AA:2539:C:H1'	32:Af:2:LYS:HZ2	1.79	0.46
1:AA:2564:A:C2	1:AA:2647:U:C4'	2.98	0.46
1:AA:2601:C:O2	1:AA:2603:G:C8	2.68	0.46
1:AA:2633:G:C6	1:AA:2634:G:N7	2.84	0.46
1:AA:2652:C:N4	1:AA:2669:G:C2	2.83	0.46
1:AA:2685:G:P	12:AL:67:LYS:HD2	2.55	0.46
1:AA:2750:A:C8	1:AA:2753:A:N6	2.83	0.46
1:AA:2776:A:N7	1:AA:2781:A:C6	2.84	0.46
1:AA:2788:C:H6	1:AA:2788:C:O5'	1.99	0.46
1:AA:2801:A:OP2	1:AA:2801:A:H3'	2.16	0.46
2:AB:3:C:O2'	2:AB:4:C:H5'	2.16	0.46
2:AB:82:G:C4	2:AB:83:G:N7	2.84	0.46
4:AD:109:ASP:N	4:AD:196:VAL:O	2.49	0.46
4:AD:112:GLN:N	4:AD:115:GLN:HE21	2.14	0.46
4:AD:129:ASN:O	4:AD:193:VAL:HG23	2.15	0.46
4:AD:181:GLU:OE2	4:AD:272:ALA:HA	2.16	0.46
4:AD:247:ALA:O	4:AD:250:TRP:HB2	2.16	0.46
4:AD:259:THR:HG22	4:AD:260:ARG:H	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:262:ARG:O	4:AD:263:ARG:C	2.58	0.46
5:AE:50:GLY:CA	5:AE:76:ARG:NE	2.79	0.46
5:AE:53:PRO:HG2	5:AE:75:VAL:HG13	1.97	0.46
5:AE:111:ARG:HB2	5:AE:161:GLY:HA3	1.98	0.46
5:AE:118:LYS:HZ3	5:AE:119:ARG:C	2.24	0.46
5:AE:187:ALA:O	5:AE:189:PRO:N	2.49	0.46
6:AF:37:VAL:O	6:AF:41:LEU:CG	2.64	0.46
7:AG:142:PRO:HG2	7:AG:143:GLU:HG2	1.98	0.46
8:AH:31:GLY:C	8:AH:33:LEU:N	2.73	0.46
8:AH:105:LEU:CD1	8:AH:113:VAL:HG11	2.45	0.46
8:AH:155:SER:O	8:AH:158:HIS:O	2.32	0.46
9:AI:54:ALA:C	9:AI:56:ASN:N	2.73	0.46
10:AJ:36:GLU:C	10:AJ:38:VAL:N	2.73	0.46
10:AJ:44:ALA:HB3	10:AJ:66:THR:HG22	1.91	0.46
10:AJ:110:GLN:C	10:AJ:112:MET:N	2.73	0.46
11:AK:23:LEU:HB2	11:AK:24:GLY:H	1.44	0.46
11:AK:34:LEU:CD2	11:AK:116:LEU:CD2	2.94	0.46
11:AK:43:THR:O	11:AK:44:PRO:C	2.58	0.46
12:AL:78:ARG:CZ	12:AL:78:ARG:N	2.78	0.46
13:AM:35:HIS:O	13:AM:36:LYS:NZ	2.49	0.46
14:AN:48:GLU:HA	14:AN:51:ARG:HG3	1.98	0.46
14:AN:130:LYS:HE3	14:AN:131:ILE:O	2.15	0.46
15:AO:20:LEU:O	15:AO:22:ARG:N	2.49	0.46
15:AO:57:ARG:CZ	15:AO:62:ALA:HB2	2.45	0.46
19:AS:37:VAL:HG13	19:AS:37:VAL:O	2.15	0.46
20:AT:18:ARG:CD	20:AT:76:VAL:H	2.29	0.46
20:AT:28:SER:C	20:AT:31:GLU:OE1	2.59	0.46
20:AT:85:VAL:HG23	20:AT:85:VAL:O	2.14	0.46
22:AV:21:LYS:HD2	22:AV:23:ARG:NH1	2.30	0.46
23:AW:59:LEU:HD11	23:AW:66:SER:OG	2.15	0.46
23:AW:68:PRO:O	23:AW:90:VAL:CA	2.55	0.46
23:AW:149:SER:O	23:AW:150:LEU:HD23	2.16	0.46
24:AX:37:LEU:N	24:AX:37:LEU:CD2	2.64	0.46
27:Aa:69:LYS:O	27:Aa:70:GLY:C	2.56	0.46
29:Ac:19:ARG:NH1	29:Ac:19:ARG:CG	2.58	0.46
29:Ac:19:ARG:NH1	29:Ac:19:ARG:O	2.47	0.46
30:Ad:24:THR:C	30:Ad:28:ARG:HE	2.24	0.46
31:Ae:22:VAL:O	31:Ae:48:PHE:CD2	2.69	0.46
31:Ae:31:HIS:O	31:Ae:32:LEU:HG	2.16	0.46
34:BA:46:G:H2'	34:BA:366:C:N4	2.30	0.46
34:BA:150:C:O2	34:BA:151:A:C8	2.68	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:186(C):G:C6	34:BA:191(E):G:C6	3.03	0.46
34:BA:230:G:H5'	49:BT:23:ASP:OD2	2.14	0.46
34:BA:255:G:C1'	50:BU:16:GLN:HB2	2.46	0.46
34:BA:287:U:C2'	34:BA:288:A:H5'	2.42	0.46
34:BA:553:A:H2'	34:BA:554:C:C1'	2.46	0.46
34:BA:600:C:N3	34:BA:601:C:C5	2.83	0.46
34:BA:614:A:H2'	34:BA:615:C:C6	2.50	0.46
34:BA:710:G:C2	34:BA:711:G:C8	3.04	0.46
34:BA:714:G:H2'	34:BA:715:A:H8	1.77	0.46
34:BA:767:A:N6	34:BA:813:U:C2	2.83	0.46
34:BA:938:A:C6	34:BA:939:G:C5	3.03	0.46
34:BA:1116:C:O2	34:BA:1185:G:C6	2.69	0.46
34:BA:1256:A:C6	34:BA:1278:U:O2'	2.64	0.46
34:BA:1284:C:C4	34:BA:1285:A:C5	3.04	0.46
34:BA:1340:A:H2'	34:BA:1341:U:H6	1.80	0.46
34:BA:1390:U:C4	34:BA:1391:U:O4	2.68	0.46
34:BA:1392:G:O2'	34:BA:1393:U:H5'	2.15	0.46
35:BF:88:ALA:HA	35:BF:222:ILE:CD1	2.46	0.46
35:BF:184:VAL:N	35:BF:198:ASP:CG	2.70	0.46
35:BF:216:SER:O	35:BF:220:ASP:OD1	2.33	0.46
37:BH:80:GLU:O	37:BH:83:SER:OG	2.34	0.46
37:BH:170:VAL:CG1	37:BH:174:LEU:HD12	2.45	0.46
38:BI:145:LYS:HA	38:BI:148:VAL:HG21	1.94	0.46
39:BJ:70:ASP:O	39:BJ:73:ASN:ND2	2.48	0.46
40:BK:6:ARG:CZ	40:BK:6:ARG:H	2.29	0.46
40:BK:38:LEU:O	40:BK:42:ILE:HG13	2.16	0.46
40:BK:69:VAL:HG13	40:BK:135:VAL:HA	1.98	0.46
41:BL:28:ALA:HA	41:BL:59:LEU:HD12	1.98	0.46
43:BN:16:LEU:HD13	43:BN:94:VAL:HG21	1.98	0.46
43:BN:26:ALA:O	43:BN:84:GLN:CD	2.59	0.46
44:BO:42:TRP:CE3	44:BO:43:SER:N	2.81	0.46
45:BP:26:ALA:HA	45:BP:98:TYR:CE2	2.51	0.46
45:BP:41:ARG:C	45:BP:42:THR:HG22	2.41	0.46
46:BQ:64:TRP:C	46:BQ:65:LYS:CD	2.88	0.46
46:BQ:91:ARG:HD3	46:BQ:98:VAL:HA	1.98	0.46
50:BU:88:TYR:CD2	50:BU:92:ARG:HD2	2.51	0.46
52:BW:36:ARG:HB2	52:BW:71:LEU:CB	2.46	0.46
52:BW:80:TYR:CE1	52:BW:81:ARG:HG3	2.49	0.46
53:BX:14:LYS:O	53:BX:18:GLN:HG3	2.15	0.46
53:BX:37:SER:OG	53:BX:38:LYS:N	2.46	0.46
55:CA:126:VAL:HG22	55:CA:163:VAL:HB	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:154:THR:C	55:CA:156:GLU:N	2.73	0.46
55:CA:289:CYS:HB3	55:CA:294:VAL:HG11	1.97	0.46
1:AA:72:U:O4	1:AA:112:U:C1'	2.59	0.46
1:AA:75:G:O3'	25:AY:50:ARG:NE	2.41	0.46
1:AA:118:A:O2'	1:AA:178:G:C5'	2.63	0.46
1:AA:183:C:C1'	1:AA:433:C:H1'	2.29	0.46
1:AA:218:A:H2'	1:AA:219:G:O4'	2.16	0.46
1:AA:247:G:C4'	1:AA:386:G:C2	2.95	0.46
1:AA:251:A:H2'	1:AA:252:G:C5'	2.46	0.46
1:AA:270(S):G:C2	1:AA:270(T):G:C8	3.04	0.46
1:AA:280:C:H3'	1:AA:282:A:P	2.55	0.46
1:AA:285:C:H2'	1:AA:286:C:H6	1.78	0.46
1:AA:304:G:H2'	1:AA:305:U:O4'	2.16	0.46
1:AA:323:G:C8	6:AF:170:LEU:HB2	2.51	0.46
1:AA:342:G:H2'	1:AA:343:C:O4'	2.15	0.46
1:AA:436:C:H2'	1:AA:436:C:O2	2.15	0.46
1:AA:465:G:C6	1:AA:466:A:C6	3.04	0.46
1:AA:587:C:C6	1:AA:671:C:H1'	2.50	0.46
1:AA:624:C:OP2	13:AM:105:LEU:HD22	2.16	0.46
1:AA:662:G:H2'	1:AA:663:G:C8	2.51	0.46
1:AA:673:C:C5'	6:AF:81:PRO:HG2	2.44	0.46
1:AA:802:A:C6	1:AA:803:U:C2	3.04	0.46
1:AA:848:G:C8	1:AA:848:G:H5''	2.50	0.46
1:AA:859:G:O2'	1:AA:2268:A:C2	2.53	0.46
1:AA:930:U:H6	1:AA:930:U:H3'	1.80	0.46
1:AA:950:G:C5	1:AA:951:C:C5	3.04	0.46
1:AA:997:G:C2	1:AA:998:C:C5	3.03	0.46
1:AA:1021:A:O2'	1:AA:1123:C:H5''	2.16	0.46
1:AA:1168:G:C6	1:AA:1169:G:C5	3.03	0.46
1:AA:1339:G:C1'	1:AA:1393:A:C2	2.99	0.46
1:AA:1373:A:N7	1:AA:1374:G:C5	2.84	0.46
1:AA:1449:A:H1'	1:AA:1529:A:C5	2.50	0.46
1:AA:1631:A:C2'	1:AA:1632:A:O5'	2.64	0.46
1:AA:1637:A:C6	1:AA:1638:C:C4	3.03	0.46
1:AA:1679:U:N3	1:AA:1764:G:H5''	2.28	0.46
1:AA:1753:G:N2	1:AA:1756:G:N3	2.63	0.46
1:AA:1767:C:C4	1:AA:1768:U:C4	3.04	0.46
1:AA:1825:A:OP1	4:AD:247:ALA:HB2	2.16	0.46
1:AA:1932:A:H3'	1:AA:1933:G:H8	1.81	0.46
1:AA:1964:G:H4'	1:AA:1965:C:OP2	2.15	0.46
1:AA:1993:U:C5	1:AA:1994:C:H5	2.34	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2016:U:O4'	28:Ab:6:VAL:CG1	2.61	0.46
1:AA:2040:C:N3	1:AA:2041:U:C4	2.83	0.46
1:AA:2065:C:O2'	1:AA:2449:U:O2	2.33	0.46
1:AA:2097:C:N4	1:AA:2193:G:C6	2.84	0.46
1:AA:2182:G:N2	1:AA:2183:C:C2	2.84	0.46
1:AA:2199:A:C5	1:AA:2205:C:C5	3.03	0.46
1:AA:2230:G:C2	1:AA:2231:C:C2	3.03	0.46
1:AA:2305:A:C3'	1:AA:2306:C:C5'	2.94	0.46
1:AA:2514:U:O5'	1:AA:2514:U:H6	1.99	0.46
1:AA:2591:C:C2	1:AA:2592:G:C8	3.04	0.46
1:AA:2720:U:O4	1:AA:2872:G:C5	2.67	0.46
1:AA:2723:C:O2'	1:AA:2724:C:H5'	2.16	0.46
1:AA:2884:U:O2'	1:AA:2885:C:H5'	2.15	0.46
2:AB:55:U:C2'	2:AB:56:G:C5'	2.94	0.46
4:AD:143:HIS:NE2	4:AD:192:THR:HG22	2.30	0.46
4:AD:145:VAL:HG13	4:AD:190:TYR:O	2.16	0.46
4:AD:183:ARG:CZ	4:AD:268:ARG:HD2	2.46	0.46
4:AD:270:ILE:C	4:AD:271:ILE:O	2.57	0.46
5:AE:12:THR:HG21	5:AE:19:ARG:CZ	2.46	0.46
5:AE:32:PRO:HG3	5:AE:88:GLY:HA2	1.97	0.46
5:AE:55:ASN:C	5:AE:57:LYS:H	2.24	0.46
5:AE:129:HIS:CD2	5:AE:129:HIS:N	2.78	0.46
6:AF:124:LEU:CD2	6:AF:197:ASP:OD2	2.63	0.46
6:AF:200:GLU:O	6:AF:204:ASN:OD1	2.33	0.46
8:AH:11:VAL:HG11	8:AH:17:VAL:CG2	2.46	0.46
8:AH:25:LYS:CE	8:AH:27:LYS:HZ2	2.29	0.46
8:AH:89:ILE:CD1	8:AH:90:LYS:N	2.76	0.46
11:AK:34:LEU:CD2	11:AK:120:LEU:HD13	2.46	0.46
11:AK:53:VAL:HG13	11:AK:121:LYS:O	2.15	0.46
11:AK:69:GLN:NE2	11:AK:69:GLN:H	2.14	0.46
12:AL:40:VAL:HG22	12:AL:41:ALA:N	2.30	0.46
12:AL:56:ASP:OD1	12:AL:56:ASP:O	2.34	0.46
13:AM:52:GLU:N	13:AM:55:ARG:HG3	2.31	0.46
13:AM:71:VAL:N	13:AM:72:PRO:HD3	2.31	0.46
13:AM:86:LYS:NZ	13:AM:91:PHE:CE2	2.82	0.46
13:AM:128:HIS:ND1	13:AM:128:HIS:N	2.63	0.46
14:AN:34:LEU:CG	14:AN:67:ARG:NH2	2.79	0.46
14:AN:54:MET:O	14:AN:55:VAL:C	2.57	0.46
14:AN:78:PRO:C	14:AN:79:LEU:HD23	2.38	0.46
14:AN:130:LYS:HB3	14:AN:130:LYS:HE2	1.66	0.46
15:AO:28:LEU:HD22	15:AO:34:ILE:HG12	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:71:GLN:O	15:AO:72:ASP:HB2	2.14	0.46
15:AO:75:LEU:HD23	15:AO:78:LYS:CG	2.46	0.46
15:AO:84:ALA:HB3	15:AO:85:PRO:HD3	1.98	0.46
15:AO:99:LYS:HD3	28:Ab:43:HIS:CG	2.50	0.46
15:AO:102:GLU:OE1	15:AO:102:GLU:HA	2.14	0.46
16:AP:13:ARG:O	16:AP:16:ASN:OD1	2.32	0.46
16:AP:59:LYS:H	16:AP:59:LYS:CD	2.28	0.46
16:AP:106:ARG:HD2	16:AP:107:GLU:OE2	2.15	0.46
18:AR:34:LYS:O	18:AR:38:THR:OG1	2.32	0.46
18:AR:61:TRP:CZ3	18:AR:93:LYS:HA	2.51	0.46
18:AR:93:LYS:CA	18:AR:93:LYS:HZ3	2.28	0.46
18:AR:104:GLN:O	18:AR:105:VAL:C	2.59	0.46
19:AS:8:GLY:HA3	19:AS:24:LYS:NZ	2.30	0.46
21:AU:29:TRP:CH2	21:AU:78:LYS:HE3	2.50	0.46
21:AU:70:LEU:CD2	21:AU:71:GLY:N	2.76	0.46
23:AW:43:GLU:HA	23:AW:46:LYS:NZ	2.31	0.46
23:AW:104:PHE:CZ	23:AW:120:ILE:CG2	2.91	0.46
23:AW:128:VAL:CG2	23:AW:164:ALA:HB2	2.45	0.46
24:AX:74:ARG:HH11	24:AX:75:LEU:CD1	2.29	0.46
27:Aa:38:LYS:HG2	27:Aa:40:HIS:CE1	2.51	0.46
29:Ac:51:GLU:O	29:Ac:52:VAL:C	2.59	0.46
31:Ae:19:SER:HG	31:Ae:21:LYS:HZ1	1.64	0.46
32:Af:7:VAL:HG21	32:Af:36:GLN:HE22	1.76	0.46
34:BA:18:C:N4	34:BA:918:A:N6	2.64	0.46
34:BA:51:A:N1	34:BA:116:A:C4	2.83	0.46
34:BA:73:G:C4	34:BA:74:C:C5	3.03	0.46
34:BA:88:C:O2'	34:BA:89:U:P	2.74	0.46
34:BA:135:C:O2	49:BT:1:MET:HG2	2.14	0.46
34:BA:209:U:H5''	34:BA:210:U:OP1	2.15	0.46
34:BA:251:G:N3	34:BA:266:G:C6	2.83	0.46
34:BA:395:C:C2	34:BA:396:G:N7	2.83	0.46
34:BA:424:G:C2	34:BA:425:G:C8	3.04	0.46
34:BA:539:A:C6	34:BA:540:G:C6	3.04	0.46
34:BA:571:U:H4'	34:BA:572:A:OP2	2.16	0.46
34:BA:573:A:N1	34:BA:574:A:C6	2.83	0.46
34:BA:695:A:C2	34:BA:696:A:N9	2.84	0.46
34:BA:737:A:H2'	34:BA:738:C:H6	1.80	0.46
34:BA:781:A:N7	34:BA:802:A:N1	2.64	0.46
34:BA:830:G:C6	34:BA:831:U:C5	3.04	0.46
34:BA:900:A:H62	34:BA:901:A:N6	2.13	0.46
34:BA:936:C:C2'	34:BA:937:A:C5'	2.92	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:976:G:C4	34:BA:1363:A:N6	2.84	0.46
34:BA:1145:C:O2'	34:BA:1146:A:P	2.74	0.46
34:BA:1163:C:N4	34:BA:1174:G:C6	2.83	0.46
34:BA:1170:A:N7	34:BA:1171:G:C5	2.84	0.46
34:BA:1231:G:H2'	34:BA:1232:U:C6	2.50	0.46
34:BA:1274:G:H21	34:BA:1275:A:N6	2.11	0.46
34:BA:1289:A:C2	34:BA:1372:U:H4'	2.51	0.46
34:BA:1289:A:HO2'	34:BA:1290:G:H5'	1.78	0.46
34:BA:1358:U:OP1	47:BR:34:TYR:CA	2.63	0.46
34:BA:1401:G:C2'	34:BA:1402:C:H5'	2.46	0.46
34:BA:1415:G:C2	34:BA:1486:G:C4	3.03	0.46
34:BA:1429:C:H2'	34:BA:1430:C:C5	2.50	0.46
34:BA:1484:C:O2'	34:BA:1485:U:C5'	2.56	0.46
34:BA:1507:A:C2'	34:BA:1508:G:C5'	2.92	0.46
34:BA:1533:C:H2'	34:BA:1534:A:H8	1.80	0.46
35:BF:186:ALA:O	35:BF:201:ILE:CD1	2.64	0.46
36:BG:143:GLU:C	36:BG:145:GLY:N	2.72	0.46
36:BG:152:ILE:O	36:BG:199:LYS:O	2.33	0.46
37:BH:165:MET:SD	37:BH:168:ARG:NH1	2.89	0.46
39:BJ:35:ALA:O	39:BJ:36:ARG:CG	2.62	0.46
39:BJ:46:ARG:HG2	39:BJ:47:ARG:N	2.29	0.46
39:BJ:47:ARG:HA	39:BJ:57:GLN:HA	1.97	0.46
41:BL:102:ARG:HE	41:BL:105:ARG:HD2	1.81	0.46
43:BN:60:ARG:NH1	43:BN:60:ARG:CB	2.79	0.46
44:BO:73:MET:C	44:BO:75:TYR:N	2.74	0.46
44:BO:95:ILE:CG2	44:BO:98:LEU:HD12	2.41	0.46
44:BO:101:SER:O	44:BO:102:GLY:C	2.57	0.46
44:BO:103:LEU:O	44:BO:104:GLN:CB	2.63	0.46
45:BP:36:VAL:O	45:BP:36:VAL:HG13	2.14	0.46
45:BP:55:VAL:O	45:BP:70:ILE:HD11	2.16	0.46
45:BP:64:TYR:C	45:BP:65:GLU:CG	2.87	0.46
45:BP:92:ASP:C	45:BP:93:LEU:CD2	2.83	0.46
45:BP:103:GLY:CA	45:BP:107:ALA:O	2.64	0.46
46:BQ:78:ILE:C	46:BQ:81:LEU:CD1	2.89	0.46
48:BS:66:LEU:O	48:BS:67:LEU:C	2.58	0.46
48:BS:77:ARG:HH12	48:BS:81:LEU:CA	2.28	0.46
49:BT:4:ILE:HA	49:BT:20:VAL:O	2.16	0.46
49:BT:19:ILE:HB	49:BT:36:ILE:O	2.15	0.46
49:BT:71:ARG:NH1	49:BT:71:ARG:CB	2.78	0.46
50:BU:91:ARG:HG2	50:BU:92:ARG:N	2.29	0.46
51:BV:22:VAL:HG22	51:BV:55:ARG:HH12	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:33:ASP:O	51:BV:69:THR:HG23	2.15	0.46
51:BV:80:PRO:O	51:BV:81:PHE:CD1	2.69	0.46
52:BW:24:ALA:C	52:BW:26:GLY:N	2.70	0.46
53:BX:26:ASN:O	53:BX:27:LYS:C	2.57	0.46
53:BX:51:GLU:CA	53:BX:54:LYS:CE	2.92	0.46
55:CA:2:ILE:HG23	55:CA:268:ALA:N	2.30	0.46
55:CA:22:VAL:HG12	55:CA:56:ILE:CG1	2.22	0.46
55:CA:58:ALA:HB3	55:CA:60:ASN:ND2	2.31	0.46
1:AA:30:G:H2'	1:AA:31:C:C6	2.51	0.46
1:AA:47:C:C2	1:AA:179:G:C2	3.04	0.46
1:AA:188:G:C8	1:AA:189:G:C8	3.04	0.46
1:AA:193:U:C4'	1:AA:803:U:H5'	2.46	0.46
1:AA:242:G:H5''	31:Ae:4:MET:SD	2.55	0.46
1:AA:253:C:H41	31:Ae:7:HIS:HD1	1.63	0.46
1:AA:269:U:C2	1:AA:424:G:N1	2.84	0.46
1:AA:416:C:N4	1:AA:417:C:N4	2.64	0.46
1:AA:450:G:O5'	1:AA:450:G:C8	2.68	0.46
1:AA:496:G:O6	1:AA:497:A:C6	2.69	0.46
1:AA:530:G:N2	1:AA:2021:C:C2'	2.78	0.46
1:AA:539:G:C2	1:AA:540:G:N7	2.84	0.46
1:AA:945:A:H2'	1:AA:946:G:H5''	1.98	0.46
1:AA:981:A:HO2'	1:AA:2036:C:HO2'	1.55	0.46
1:AA:1031:G:C2	1:AA:1032:A:C5	3.03	0.46
1:AA:1052:C:C4	1:AA:1108:U:O2	2.68	0.46
1:AA:1081:U:H6	1:AA:1081:U:O5'	1.99	0.46
1:AA:1338:G:N2	1:AA:1339:G:H1'	2.30	0.46
1:AA:1350:C:H2'	1:AA:1351:C:O5'	2.15	0.46
1:AA:1363:C:O2'	1:AA:1809:A:N7	2.39	0.46
1:AA:1444(A):A:H5'	1:AA:1445:C:C6	2.51	0.46
1:AA:1566:A:N3	4:AD:215:LEU:HD22	2.31	0.46
1:AA:1620:G:O2'	1:AA:1621:U:C5'	2.63	0.46
1:AA:1665:A:C2	1:AA:1666:G:C4	3.03	0.46
1:AA:1785:A:OP2	1:AA:1785:A:C8	2.63	0.46
1:AA:1837:C:N3	1:AA:1899:G:O6	2.49	0.46
1:AA:1850:G:C5	1:AA:1851:U:C5	3.04	0.46
1:AA:2033:A:H8	1:AA:2033:A:O5'	1.99	0.46
1:AA:2072:G:C5	1:AA:2073:C:C5	3.04	0.46
1:AA:2087:G:C8	1:AA:2087:G:H5''	2.50	0.46
1:AA:2114:A:H2'	1:AA:2115:G:C4'	2.46	0.46
1:AA:2210:G:O2'	1:AA:2211:G:OP2	2.33	0.46
1:AA:2246:G:N3	1:AA:2247:A:C8	2.84	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2285:C:O4'	1:AA:2288:A:C6	2.69	0.46
1:AA:2285:C:C4'	1:AA:2288:A:C6	2.98	0.46
1:AA:2374:C:N4	1:AA:2375:G:O6	2.49	0.46
1:AA:2387:U:O5'	1:AA:2387:U:H6	1.97	0.46
1:AA:2464:C:N3	1:AA:2465:C:C5	2.84	0.46
1:AA:2503:A:O2'	1:AA:2504:U:P	2.73	0.46
1:AA:2548:G:C6	1:AA:2549:G:C5	3.03	0.46
1:AA:2552:U:H3'	1:AA:2554:U:OP2	2.16	0.46
1:AA:2573:C:C6	1:AA:2573:C:C3'	2.99	0.46
1:AA:2638:G:H2'	1:AA:2639:A:N7	2.31	0.46
1:AA:2651:C:H42	1:AA:2670:A:N6	2.14	0.46
1:AA:2693:A:O2'	1:AA:2848:G:H5''	2.15	0.46
1:AA:2820:A:H4'	15:AO:4:LEU:CD2	2.46	0.46
1:AA:2846:G:H2'	1:AA:2846:G:N3	2.31	0.46
1:AA:2863:C:O2	1:AA:2864:G:C8	2.69	0.46
2:AB:33:G:H2'	2:AB:33:G:N3	2.31	0.46
2:AB:37:C:O2	2:AB:49:C:H5'	2.16	0.46
2:AB:75:G:N3	23:AW:85:HIS:CE1	2.84	0.46
3:AC:49:ILE:CD1	3:AC:51:PRO:HD3	2.45	0.46
4:AD:39:LYS:HB3	4:AD:62:TYR:HD2	1.81	0.46
4:AD:101:GLU:OE1	4:AD:102:LYS:O	2.33	0.46
5:AE:170:LEU:N	5:AE:170:LEU:CD2	2.67	0.46
5:AE:199:ARG:O	5:AE:200:GLU:OE1	2.32	0.46
6:AF:12:LEU:HD22	6:AF:128:ALA:HA	1.98	0.46
6:AF:21:ALA:O	6:AF:22:ALA:HB3	2.16	0.46
6:AF:133:ASN:CG	6:AF:162:LEU:CD1	2.89	0.46
6:AF:153:SER:N	6:AF:190:GLU:HG3	2.30	0.46
7:AG:42:GLY:O	7:AG:43:LEU:O	2.34	0.46
7:AG:44:GLY:HA3	7:AG:88:ILE:CG2	2.46	0.46
7:AG:54:GLU:CD	7:AG:70:VAL:HG22	2.41	0.46
7:AG:95:ARG:O	7:AG:95:ARG:HG3	2.16	0.46
7:AG:100:TRP:O	7:AG:101:ILE:C	2.55	0.46
8:AH:6:ARG:O	8:AH:65:HIS:CD2	2.68	0.46
8:AH:11:VAL:HB	8:AH:50:VAL:HG22	1.97	0.46
8:AH:25:LYS:HE3	8:AH:34:GLU:OE2	2.16	0.46
9:AI:59:ILE:C	9:AI:61:LEU:N	2.73	0.46
10:AJ:17:ALA:CA	10:AJ:38:VAL:O	2.56	0.46
10:AJ:51:ALA:HB1	10:AJ:77:LEU:HA	1.97	0.46
11:AK:33:LEU:HD11	11:AK:52:VAL:CG2	2.44	0.46
12:AL:18:LYS:NZ	12:AL:44:LYS:CD	2.79	0.46
12:AL:63:VAL:CG2	12:AL:81:ASP:CA	2.90	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:106:LEU:CG	12:AL:107:ARG:N	2.78	0.46
13:AM:70:GLN:C	13:AM:71:VAL:HG23	2.40	0.46
13:AM:72:PRO:O	13:AM:111:ARG:CZ	2.64	0.46
13:AM:131:SER:O	13:AM:135:LEU:CD1	2.64	0.46
14:AN:96:VAL:CG1	14:AN:98:LYS:HZ3	2.20	0.46
15:AO:118:GLU:OE1	15:AO:118:GLU:HA	2.15	0.46
16:AP:39:ILE:HD11	16:AP:76:LYS:CE	2.46	0.46
16:AP:75:GLU:O	16:AP:78:LEU:HD12	2.15	0.46
17:AQ:28:VAL:HG22	17:AQ:93:ARG:CA	2.46	0.46
19:AS:16:PRO:HD3	19:AS:100:ARG:HH11	1.76	0.46
19:AS:31:ALA:O	19:AS:32:THR:C	2.59	0.46
19:AS:93:GLU:O	19:AS:95:LEU:HD23	2.16	0.46
20:AT:24:ILE:CG2	20:AT:35:ILE:HG23	2.45	0.46
21:AU:47:PHE:O	21:AU:48:LYS:C	2.59	0.46
23:AW:44:PHE:O	23:AW:47:VAL:HB	2.16	0.46
23:AW:45:ASP:O	23:AW:47:VAL:N	2.49	0.46
23:AW:47:VAL:O	23:AW:50:GLN:HB2	2.15	0.46
23:AW:118:GLN:HE22	23:AW:119:GLU:C	2.22	0.46
29:Ac:7:ILE:CG2	29:Ac:8:LYS:H	2.28	0.46
29:Ac:50:ARG:O	29:Ac:51:GLU:HB3	2.15	0.46
31:Ac:44:LYS:CE	31:Ac:44:LYS:HA	2.46	0.46
34:BA:27:G:H8	34:BA:27:G:OP2	1.98	0.46
34:BA:136:C:H4'	49:BT:65:GLN:NE2	2.29	0.46
34:BA:185:A:C6	34:BA:186:C:N4	2.84	0.46
34:BA:246:A:C2	34:BA:282:A:C5	3.04	0.46
34:BA:295:C:C2	34:BA:296:U:C6	3.03	0.46
34:BA:446:G:H2'	34:BA:447:G:H8	1.79	0.46
34:BA:665:A:O4'	34:BA:733:A:H1'	2.16	0.46
34:BA:692:U:C4	44:BO:26:ASN:ND2	2.84	0.46
34:BA:729:A:O2'	34:BA:730:G:H5'	2.15	0.46
34:BA:908:A:C2	34:BA:909:A:C8	3.03	0.46
34:BA:955:U:H2'	34:BA:956:U:C6	2.51	0.46
34:BA:977:A:N6	34:BA:1224:G:P	2.88	0.46
34:BA:1002:G:N3	34:BA:1002:G:H2'	2.31	0.46
34:BA:1029:G:C4	34:BA:1032(A):G:C6	3.03	0.46
34:BA:1128:C:C3'	42:BM:16:ARG:NH2	2.72	0.46
34:BA:1188:A:H3'	34:BA:1189:C:H5	1.80	0.46
34:BA:1189:C:OP2	34:BA:1189:C:C6	2.68	0.46
34:BA:1205:U:O2'	36:BG:194:GLY:CA	2.64	0.46
34:BA:1277:C:H2'	34:BA:1279:A:H8	1.80	0.46
34:BA:1286:A:C5'	54:BY:25:LYS:HG2	2.25	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1312:G:C2	34:BA:1326:C:C2	3.04	0.46
34:BA:1346:A:N1	40:BK:10:ARG:HD3	2.31	0.46
34:BA:1363:A:H5''	34:BA:1364:U:C6	2.51	0.46
34:BA:1468:A:C2'	34:BA:1469:G:O5'	2.63	0.46
34:BA:1477:C:C4	34:BA:1478:C:C5	3.03	0.46
35:BF:24:TRP:CZ2	35:BF:26:PRO:HA	2.49	0.46
35:BF:83:MET:HB2	35:BF:234:PRO:CG	2.45	0.46
35:BF:110:GLN:O	35:BF:113:HIS:HB3	2.15	0.46
35:BF:118:LEU:HD12	35:BF:145:LEU:HD23	1.97	0.46
35:BF:164:VAL:CG2	35:BF:165:VAL:N	2.77	0.46
37:BH:70:ILE:CD1	37:BH:100:ARG:HH21	2.18	0.46
37:BH:77:ASN:HA	37:BH:80:GLU:OE2	2.16	0.46
37:BH:112:VAL:CG2	37:BH:161:ASN:ND2	2.78	0.46
37:BH:140:VAL:HG12	37:BH:185:PHE:HD1	1.81	0.46
37:BH:152:SER:C	37:BH:154:ASN:ND2	2.72	0.46
37:BH:195:ALA:O	37:BH:196:LEU:O	2.33	0.46
38:BI:129:ILE:O	38:BI:132:ALA:HB3	2.15	0.46
39:BJ:2:ARG:O	39:BJ:67:MET:CE	2.64	0.46
39:BJ:24:GLU:O	39:BJ:27:GLN:N	2.49	0.46
39:BJ:97:PHE:O	51:BV:30:ASP:HA	2.16	0.46
40:BK:17:VAL:O	40:BK:18:TYR:CD1	2.69	0.46
40:BK:50:ILE:HD13	40:BK:58:PRO:CA	2.45	0.46
40:BK:69:VAL:C	40:BK:100:ALA:HB1	2.41	0.46
40:BK:111:ARG:HD3	40:BK:122:HIS:CB	2.46	0.46
41:BL:6:ILE:HD12	41:BL:85:ARG:NH1	2.31	0.46
41:BL:49:GLU:OE2	41:BL:60:ARG:HB3	2.16	0.46
42:BM:31:GLN:HB3	42:BM:35:GLU:OE2	2.15	0.46
42:BM:101:PHE:C	42:BM:102:LEU:CD2	2.81	0.46
45:BP:48:PRO:CD	45:BP:49:ASN:H	2.29	0.46
45:BP:92:ASP:CA	45:BP:93:LEU:HD23	2.45	0.46
45:BP:102:ARG:HG3	45:BP:120:TYR:HA	1.97	0.46
46:BQ:13:LYS:HD3	46:BQ:21:TYR:OH	2.16	0.46
46:BQ:47:ASP:O	46:BQ:49:THR:N	2.49	0.46
46:BQ:65:LYS:HG3	46:BQ:69:GLU:CB	2.45	0.46
47:BR:40:CYS:C	47:BR:42:ILE:N	2.74	0.46
48:BS:79:ARG:HB3	48:BS:79:ARG:NH1	2.31	0.46
49:BT:1:MET:HE3	49:BT:1:MET:HB3	1.82	0.46
51:BV:46:GLU:CB	51:BV:85:LEU:HD13	2.27	0.46
51:BV:78:LEU:O	51:BV:79:LEU:CB	2.64	0.46
52:BW:19:VAL:HG21	52:BW:44:MET:HE2	1.96	0.46
55:CA:18:LYS:CA	57:CA:701:GCP:PB	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:102:PHE:HB3	55:CA:132:ARG:HH12	1.80	0.46
55:CA:149:VAL:HG13	55:CA:150:ASN:N	2.30	0.46
55:CA:168:LEU:N	55:CA:168:LEU:HD23	2.31	0.46
55:CA:209:ILE:CA	55:CA:223:ILE:O	2.64	0.46
55:CA:289:CYS:SG	55:CA:295:GLU:CD	2.99	0.46
55:CA:295:GLU:HA	55:CA:296:ALA:HA	1.59	0.46
1:AA:273(E):U:N3	1:AA:273(F):C:H1'	2.30	0.46
1:AA:326:G:N3	1:AA:327:G:C8	2.84	0.46
1:AA:401:A:C4	1:AA:402:A:H8	2.32	0.46
1:AA:458:G:N7	30:Ad:38:GLY:CA	2.79	0.46
1:AA:492:A:N3	1:AA:492:A:H2'	2.30	0.46
1:AA:566:U:H6	1:AA:567:A:C8	2.32	0.46
1:AA:585:G:H22	1:AA:1253:A:P	2.39	0.46
1:AA:637:A:OP2	13:AM:131:SER:HB3	2.16	0.46
1:AA:659:C:C5'	6:AF:102:PRO:HD3	2.45	0.46
1:AA:675:A:N7	1:AA:804:A:N1	2.64	0.46
1:AA:728:G:N1	1:AA:762:U:C3'	2.72	0.46
1:AA:800:A:C5	1:AA:802:A:O4'	2.69	0.46
1:AA:806:C:H2'	1:AA:807:U:C5	2.51	0.46
1:AA:851:U:H1'	26:AZ:46:ASN:HB2	1.96	0.46
1:AA:997:G:C2	1:AA:998:C:C4	3.03	0.46
1:AA:1005:C:O4'	1:AA:1012:U:O2	2.34	0.46
1:AA:1144:G:C2'	1:AA:1145:C:H6	2.20	0.46
1:AA:1204:A:C5'	1:AA:1206:G:OP1	2.56	0.46
1:AA:1216:G:N2	1:AA:1234:U:H1'	2.31	0.46
1:AA:1237:A:O2'	1:AA:1238:G:C4'	2.62	0.46
1:AA:1364:G:P	1:AA:1809:A:N6	2.89	0.46
1:AA:1382:G:C4	1:AA:1383:C:C5	3.03	0.46
1:AA:1635:G:H2'	1:AA:1636:C:H6	1.81	0.46
1:AA:1672:C:C2'	1:AA:1673:U:OP1	2.64	0.46
1:AA:1691:C:H2'	1:AA:1691:C:O2	2.15	0.46
1:AA:1754:C:N3	1:AA:1755:A:C4	2.83	0.46
1:AA:1789:A:H4'	4:AD:222:ARG:NH1	2.31	0.46
1:AA:1809:A:C5'	1:AA:1810:A:C2	2.88	0.46
1:AA:1813:G:O3'	4:AD:46:GLN:HG2	2.16	0.46
1:AA:1819:A:HO2'	1:AA:1820:U:C5'	2.29	0.46
1:AA:1850:G:C6	1:AA:1851:U:C4	3.04	0.46
1:AA:2032:G:O2'	5:AE:145:LYS:HD2	2.16	0.46
1:AA:2080:G:O2'	1:AA:2081:C:C5'	2.64	0.46
1:AA:2182:G:C6	1:AA:2183:C:C4	3.04	0.46
1:AA:2186:G:N2	1:AA:2187:G:C5	2.84	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2227:A:H2'	1:AA:2228:G:O5'	2.16	0.46
1:AA:2236:C:C4	1:AA:2237:G:C4	3.04	0.46
1:AA:2260:C:H2'	1:AA:2261:C:H6	1.80	0.46
1:AA:2278:A:C5	24:AX:14:ARG:HB3	2.51	0.46
1:AA:2289:G:H5'	1:AA:2384:G:C1'	2.39	0.46
1:AA:2358:G:N2	31:Ae:52:LYS:HZ1	2.14	0.46
1:AA:2386:C:O2	1:AA:2386:C:H2'	2.16	0.46
1:AA:2490:G:HO2'	1:AA:2491:U:P	2.39	0.46
1:AA:2502:G:O2'	1:AA:2503:A:OP2	2.30	0.46
1:AA:2599:G:H2'	1:AA:2600:A:O4'	2.16	0.46
1:AA:2646:C:N3	1:AA:2647:U:N3	2.63	0.46
1:AA:2666:C:H2'	1:AA:2667:C:H5'	1.96	0.46
1:AA:2673:G:N3	1:AA:2674:G:C8	2.84	0.46
1:AA:2682:U:O2'	1:AA:2683:C:H5'	2.16	0.46
1:AA:2752:C:OP1	1:AA:2752:C:C6	2.69	0.46
2:AB:29:A:OP1	16:AP:34:HIS:CE1	2.69	0.46
2:AB:46:A:O2'	2:AB:47:C:H5'	2.16	0.46
3:AC:7:TYR:O	3:AC:8:ARG:C	2.59	0.46
3:AC:68:LEU:CG	3:AC:69:GLY:N	2.78	0.46
4:AD:7:LYS:HB2	4:AD:27:THR:HA	1.97	0.46
4:AD:54:ARG:C	4:AD:219:PRO:CG	2.89	0.46
4:AD:134:ARG:C	4:AD:136:ILE:N	2.69	0.46
4:AD:148:GLU:OE1	4:AD:154:LYS:NZ	2.48	0.46
4:AD:270:ILE:C	4:AD:271:ILE:HG13	2.40	0.46
5:AE:66:HIS:CE1	5:AE:70:ALA:HA	2.50	0.46
7:AG:30:GLU:HG2	7:AG:33:ARG:CG	2.46	0.46
7:AG:157:ILE:CG1	7:AG:158:ALA:H	2.28	0.46
10:AJ:122:ALA:CA	10:AJ:126:MET:HB2	2.33	0.46
11:AK:33:LEU:C	11:AK:33:LEU:CD2	2.89	0.46
11:AK:58:ASP:CG	11:AK:59:LYS:H	2.24	0.46
11:AK:86:PRO:HD2	11:AK:89:LYS:CD	2.44	0.46
11:AK:99:LEU:CD1	11:AK:103:VAL:HG11	2.46	0.46
11:AK:134:ARG:N	11:AK:135:PRO:CD	2.78	0.46
11:AK:134:ARG:N	11:AK:135:PRO:HD2	2.31	0.46
12:AL:63:VAL:HB	12:AL:78:ARG:HG2	1.98	0.46
12:AL:69:VAL:C	12:AL:104:ARG:HH21	2.24	0.46
13:AM:117:GLU:O	13:AM:121:LYS:CG	2.58	0.46
14:AN:90:VAL:CA	14:AN:91:GLU:OE2	2.64	0.46
14:AN:126:PRO:HD2	14:AN:127:ILE:HD11	1.98	0.46
15:AO:113:LEU:C	15:AO:114:VAL:HG23	2.41	0.46
16:AP:101:LEU:HD13	16:AP:101:LEU:C	2.41	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:54:ARG:CA	17:AQ:64:ARG:HB2	2.45	0.46
17:AQ:71:GLY:N	17:AQ:74:ARG:HH12	2.12	0.46
17:AQ:115:ARG:CG	34:BA:1463:C:OP1	2.63	0.46
18:AR:31:SER:OG	18:AR:35:ALA:CA	2.64	0.46
18:AR:96:ALA:O	18:AR:99:ALA:N	2.48	0.46
19:AS:79:VAL:CG1	19:AS:81:TYR:HD1	2.29	0.46
19:AS:99:ILE:O	19:AS:100:ARG:O	2.33	0.46
20:AT:16:LYS:O	20:AT:19:LEU:HB2	2.15	0.46
20:AT:20:VAL:CG2	20:AT:47:VAL:HG11	2.46	0.46
20:AT:34:ASN:HA	20:AT:37:ARG:CG	2.45	0.46
20:AT:45:TYR:O	20:AT:46:PHE:C	2.55	0.46
20:AT:98:LYS:CE	20:AT:98:LYS:C	2.89	0.46
23:AW:17:ALA:HA	23:AW:20:ARG:HH21	1.80	0.46
23:AW:79:ARG:C	23:AW:80:ARG:CD	2.82	0.46
23:AW:111:VAL:C	23:AW:113:ALA:N	2.72	0.46
25:AY:24:LYS:HG2	25:AY:52:ILE:HD13	1.98	0.46
25:AY:36:ILE:O	25:AY:37:GLY:C	2.59	0.46
25:AY:51:GLN:C	25:AY:55:LEU:HD13	2.41	0.46
26:AZ:55:ARG:CZ	26:AZ:55:ARG:CA	2.90	0.46
27:Aa:56:VAL:O	27:Aa:57:GLU:HG2	2.16	0.46
27:Aa:62:ARG:HA	27:Aa:65:ASP:OD1	2.16	0.46
30:Ad:25:PRO:CA	30:Ad:28:ARG:NE	2.76	0.46
31:Ae:29:LYS:CE	31:Ae:36:LYS:HZ3	2.28	0.46
34:BA:15:G:N3	34:BA:15:G:H2'	2.31	0.46
34:BA:155:C:H2'	34:BA:156:G:O4'	2.15	0.46
34:BA:267:C:C2	34:BA:268:C:C5	3.04	0.46
34:BA:275:G:C2	34:BA:276:G:C8	3.04	0.46
34:BA:279:A:H4'	34:BA:280:C:O5'	2.14	0.46
34:BA:299:G:C5	34:BA:300:A:N6	2.84	0.46
34:BA:303:A:O2'	34:BA:304:U:H5'	2.15	0.46
34:BA:564:C:H2'	34:BA:565:U:O4'	2.16	0.46
34:BA:611:A:N6	34:BA:629:G:C6	2.74	0.46
34:BA:754:C:O2	34:BA:754:C:C2'	2.64	0.46
34:BA:767:A:H2'	34:BA:768:A:H5'	1.98	0.46
34:BA:933:G:OP2	40:BK:3:ARG:HG2	2.15	0.46
34:BA:934:C:N4	34:BA:939:G:N1	2.64	0.46
34:BA:961:U:C2'	34:BA:962:C:C5'	2.94	0.46
34:BA:1001:G:C5	34:BA:1002:G:H1'	2.51	0.46
34:BA:1047:G:O2'	34:BA:1048:G:H5'	2.16	0.46
34:BA:1053:G:H2'	34:BA:1199:U:H5	1.80	0.46
34:BA:1060:C:C4'	43:BN:52:GLY:HA2	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1176:A:N6	34:BA:1177:G:N1	2.63	0.46
34:BA:1180:A:C2'	34:BA:1181:G:C5'	2.86	0.46
34:BA:1267:C:N4	34:BA:1268:A:N1	2.62	0.46
34:BA:1317:C:H2'	34:BA:1318:A:C4'	2.10	0.46
34:BA:1341:U:O2'	42:BM:126:SER:O	2.29	0.46
34:BA:1354:C:O5'	34:BA:1354:C:H6	1.98	0.46
34:BA:1477:C:N4	34:BA:1478:C:N4	2.64	0.46
35:BF:20:GLU:CG	35:BF:189:ASP:OD2	2.64	0.46
35:BF:48:MET:HE3	35:BF:51:LEU:CD1	2.45	0.46
35:BF:55:PHE:O	35:BF:58:ILE:CB	2.63	0.46
35:BF:178:ARG:CA	35:BF:184:VAL:HG21	2.40	0.46
35:BF:223:ILE:HA	35:BF:226:ARG:CD	2.46	0.46
36:BG:19:GLU:CD	36:BG:19:GLU:N	2.74	0.46
36:BG:30:ARG:NH1	36:BG:31:HIS:HB2	2.31	0.46
36:BG:47:LEU:O	36:BG:52:LEU:HD13	2.16	0.46
37:BH:126:ILE:C	37:BH:149:ALA:HB2	2.39	0.46
38:BI:41:VAL:HG21	38:BI:113:ALA:CB	2.45	0.46
39:BJ:4:TYR:CD1	39:BJ:90:VAL:HG22	2.51	0.46
40:BK:15:ASP:OD2	40:BK:16:LEU:N	2.49	0.46
40:BK:153:HIS:CE1	44:BO:58:PRO:HD2	2.42	0.46
43:BN:22:LYS:CE	43:BN:90:LEU:HD12	2.45	0.46
43:BN:60:ARG:O	43:BN:61:GLU:HB2	2.15	0.46
44:BO:42:TRP:HE3	44:BO:42:TRP:C	2.24	0.46
44:BO:66:LEU:CB	44:BO:70:LYS:NZ	2.79	0.46
45:BP:24:VAL:HG13	45:BP:98:TYR:OH	2.15	0.46
49:BT:30:GLY:O	49:BT:31:LYS:C	2.58	0.46
50:BU:5:VAL:CG1	50:BU:6:LEU:H	2.27	0.46
50:BU:59:ILE:HD11	50:BU:71:PHE:CA	2.45	0.46
50:BU:87:LYS:C	50:BU:91:ARG:HE	2.24	0.46
51:BV:21:LYS:HE2	51:BV:23:LYS:HB3	1.96	0.46
51:BV:41:LYS:C	51:BV:43:PHE:H	2.22	0.46
51:BV:52:PRO:C	51:BV:54:ARG:N	2.67	0.46
55:CA:83:GLY:C	55:CA:85:VAL:N	2.73	0.46
55:CA:317:PRO:HG2	55:CA:519:TYR:CG	2.51	0.46
55:CA:322:GLU:CG	55:CA:379:GLU:CG	2.86	0.46
55:CA:397:GLN:CB	55:CA:472:TYR:CB	2.73	0.46
55:CA:407:VAL:CA	55:CA:408:GLU:HG3	2.46	0.46
55:CA:410:GLN:HE21	55:CA:410:GLN:HB2	1.62	0.46
55:CA:527:HIS:CE1	55:CA:531:ASN:CG	2.93	0.46
1:AA:21:A:O2'	1:AA:22:C:H5'	2.16	0.45
1:AA:25:U:C2	1:AA:26:G:N7	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:54:G:N2	1:AA:55:G:H1'	2.31	0.45
1:AA:107:C:C5'	1:AA:293:U:O4'	2.65	0.45
1:AA:119:A:O2'	1:AA:120:U:C5'	2.64	0.45
1:AA:220:G:C4'	1:AA:234:C:H4'	2.21	0.45
1:AA:297:C:H5''	22:AV:83:THR:CG2	2.46	0.45
1:AA:332:A:C4	1:AA:335:C:C5	3.04	0.45
1:AA:349:G:H2'	1:AA:350:U:C5	2.49	0.45
1:AA:389:G:C8	1:AA:389:G:OP1	2.69	0.45
1:AA:447:A:HO2'	1:AA:448:U:C5'	2.29	0.45
1:AA:459:U:OP2	30:Ad:40:TRP:CG	2.68	0.45
1:AA:553:U:H2'	1:AA:554:U:C1'	2.46	0.45
1:AA:564:C:OP1	19:AS:80:GLN:HB3	2.16	0.45
1:AA:566:U:H3'	19:AS:82:ARG:HH12	1.81	0.45
1:AA:650:C:P	31:Ae:21:LYS:HZ3	2.39	0.45
1:AA:693:C:H2'	1:AA:694:U:O5'	2.16	0.45
1:AA:728:G:C1'	1:AA:729:G:H8	2.25	0.45
1:AA:774:A:C5'	1:AA:778:G:O4'	2.64	0.45
1:AA:775:G:H5'	1:AA:777:A:N9	2.31	0.45
1:AA:837:C:H6	1:AA:837:C:O5'	1.99	0.45
1:AA:878:A:N3	1:AA:879:G:N7	2.59	0.45
1:AA:882:G:H3'	1:AA:883:G:H5''	0.47	0.45
1:AA:914:C:H5	1:AA:915:C:H5	1.64	0.45
1:AA:963:U:H2'	1:AA:964:C:O5'	2.15	0.45
1:AA:989:G:C2'	1:AA:990:A:OP2	2.58	0.45
1:AA:1061:U:H1'	1:AA:1070:A:N3	2.31	0.45
1:AA:1210:A:H5''	1:AA:1211:U:O5'	2.16	0.45
1:AA:1256:G:H2'	1:AA:1257:C:O5'	2.16	0.45
1:AA:1419:A:O4'	1:AA:1419:A:OP2	2.34	0.45
1:AA:1459:G:N3	1:AA:1459:G:H2'	2.32	0.45
1:AA:1613:G:C2'	1:AA:1614:A:OP1	2.62	0.45
1:AA:1707:G:N3	1:AA:1708:C:C6	2.84	0.45
1:AA:1742:C:C3'	1:AA:1743:G:H5''	2.38	0.45
1:AA:1786:A:HO2'	1:AA:1787:A:H5'	1.73	0.45
1:AA:1793:C:N4	1:AA:1794:U:O4	2.49	0.45
1:AA:1842:G:C4	1:AA:1843:C:C6	3.04	0.45
1:AA:1958:C:C2'	1:AA:1959:G:O5'	2.64	0.45
1:AA:2010:G:C5	1:AA:2011:U:C6	3.04	0.45
1:AA:2025:C:C2	1:AA:2026:C:C5	3.04	0.45
1:AA:2030:A:HO2'	1:AA:2031:A:P	2.39	0.45
1:AA:2051:A:OP2	1:AA:2051:A:C8	2.69	0.45
1:AA:2091:U:O2'	1:AA:2092:U:OP1	2.27	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2129:C:P	3:AC:6:ARG:HG3	2.56	0.45
1:AA:2257:U:C5'	24:AX:11:ARG:HD3	2.46	0.45
1:AA:2275:C:O2'	14:AN:84:GLY:O	2.33	0.45
1:AA:2331:G:H3'	1:AA:2332:U:C6	2.52	0.45
1:AA:2516:G:C6	1:AA:2517:C:N4	2.84	0.45
1:AA:2583:G:C4	1:AA:2584:U:N3	2.83	0.45
1:AA:2755:C:O2'	1:AA:2756:U:C6	2.53	0.45
1:AA:2773:C:C5'	5:AE:165:VAL:HG13	2.46	0.45
1:AA:2807:G:N3	1:AA:2807:G:C2'	2.78	0.45
3:AC:93:TYR:CD1	3:AC:107:TRP:HZ2	2.34	0.45
3:AC:131:LEU:CD1	3:AC:137:LEU:HA	2.42	0.45
4:AD:183:ARG:NH2	4:AD:268:ARG:HH11	2.13	0.45
5:AE:21:VAL:O	5:AE:185:LYS:HB2	2.15	0.45
5:AE:91:VAL:HG23	5:AE:180:ASN:ND2	2.31	0.45
5:AE:105:THR:HB	5:AE:166:THR:HG1	1.80	0.45
6:AF:170:LEU:HB3	6:AF:171:PRO:HD3	1.98	0.45
7:AG:39:ILE:HA	7:AG:157:ILE:HA	1.98	0.45
7:AG:90:LEU:HD13	7:AG:90:LEU:C	2.41	0.45
7:AG:125:PHE:CB	7:AG:131:TYR:O	2.60	0.45
8:AH:11:VAL:HG11	8:AH:45:VAL:HG11	1.98	0.45
8:AH:42:ARG:O	8:AH:43:VAL:HG23	2.16	0.45
9:AI:19:ARG:C	9:AI:21:GLN:N	2.73	0.45
10:AJ:118:THR:CG2	10:AJ:119:ASP:N	2.79	0.45
11:AK:107:LEU:HD13	11:AK:117:PHE:CD2	2.50	0.45
12:AL:85:VAL:CG1	12:AL:86:ILE:N	2.73	0.45
13:AM:52:GLU:O	13:AM:53:GLY:C	2.57	0.45
15:AO:52:ILE:O	15:AO:56:LYS:CG	2.63	0.45
16:AP:10:ARG:O	16:AP:14:VAL:HG23	2.16	0.45
16:AP:36:TYR:HD1	16:AP:51:ALA:HB3	1.81	0.45
16:AP:39:ILE:HB	16:AP:48:LEU:HB2	1.97	0.45
16:AP:62:LYS:C	16:AP:65:VAL:H	2.22	0.45
16:AP:99:LYS:O	16:AP:103:GLU:CD	2.59	0.45
17:AQ:108:ARG:HH11	17:AQ:108:ARG:N	2.10	0.45
18:AR:39:LEU:HA	18:AR:39:LEU:HD23	1.54	0.45
18:AR:80:ILE:HA	18:AR:83:LEU:CD1	2.45	0.45
19:AS:96:ILE:HD12	19:AS:96:ILE:C	2.41	0.45
20:AT:14:PRO:O	20:AT:16:LYS:NZ	2.49	0.45
20:AT:21:VAL:CG1	20:AT:75:TYR:CD1	2.99	0.45
20:AT:95:ILE:H	20:AT:95:ILE:CD1	2.06	0.45
21:AU:5:TYR:HB3	25:AY:24:LYS:CD	2.40	0.45
21:AU:65:ARG:HA	21:AU:70:LEU:CG	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:68:ARG:HB3	21:AU:68:ARG:HH11	1.82	0.45
22:AV:2:ARG:HD2	22:AV:3:VAL:CG2	2.44	0.45
23:AW:18:LEU:HD22	23:AW:23:LYS:HG2	1.97	0.45
23:AW:80:ARG:HD2	23:AW:80:ARG:N	2.31	0.45
24:AX:49:LYS:HB2	24:AX:80:HIS:ND1	2.30	0.45
26:AZ:40:THR:N	26:AZ:44:ARG:HG3	2.31	0.45
26:AZ:48:GLU:CG	26:AZ:49:LYS:N	2.78	0.45
27:Aa:35:VAL:CG1	27:Aa:36:CYS:N	2.79	0.45
34:BA:27:G:H22	34:BA:557:G:H1'	1.73	0.45
34:BA:251:G:O4'	34:BA:252:U:C5	2.70	0.45
34:BA:270:A:C8	34:BA:270:A:OP2	2.69	0.45
34:BA:294:U:C2	34:BA:295:C:H5	2.34	0.45
34:BA:337:C:H2'	34:BA:338:A:H8	1.75	0.45
34:BA:352:C:H4'	34:BA:354:G:OP1	2.15	0.45
34:BA:450:G:OP1	34:BA:452:A:P	2.74	0.45
34:BA:468:A:N6	34:BA:474:G:C6	2.84	0.45
34:BA:667:G:H5'	48:BS:51:HIS:CD2	2.51	0.45
34:BA:706:A:C2'	34:BA:707:C:O5'	2.64	0.45
34:BA:717:C:O2'	34:BA:718:G:OP2	2.33	0.45
34:BA:721:G:H1'	34:BA:722:A:C2	2.52	0.45
34:BA:812:C:C4'	34:BA:813:U:H6	2.28	0.45
34:BA:998:G:C6	34:BA:1044:A:C6	3.03	0.45
34:BA:1104:G:H4'	35:BF:111:ARG:NH2	2.31	0.45
34:BA:1111:A:C5	34:BA:1112:C:N4	2.85	0.45
34:BA:1213:A:H2'	34:BA:1215:G:N7	2.31	0.45
34:BA:1265:G:C6	34:BA:1271:G:C6	3.03	0.45
34:BA:1361:G:C8	34:BA:1361:G:O5'	2.68	0.45
34:BA:1396:A:H4'	34:BA:1398:A:O4'	2.15	0.45
34:BA:1429:C:H2'	34:BA:1430:C:H6	1.78	0.45
34:BA:1468:A:C8	34:BA:1469:G:H8	2.33	0.45
34:BA:1517:G:N1	34:BA:1518:A:N3	2.64	0.45
34:BA:1519:A:H8	34:BA:1519:A:O5'	1.99	0.45
35:BF:58:ILE:HB	35:BF:221:LEU:HG	1.98	0.45
35:BF:102:LEU:CD1	35:BF:102:LEU:N	2.50	0.45
36:BG:83:ARG:C	36:BG:87:LEU:HG	2.40	0.45
37:BH:26:CYS:SG	37:BH:26:CYS:O	2.73	0.45
37:BH:85:LYS:O	37:BH:86:LYS:O	2.34	0.45
37:BH:145:GLU:CG	37:BH:184:LYS:HE2	2.44	0.45
37:BH:191:ARG:HB3	37:BH:192:GLU:OE1	2.16	0.45
38:BI:107:ARG:HB2	38:BI:107:ARG:NH1	2.29	0.45
38:BI:153:LYS:HG2	38:BI:154:GLY:N	2.25	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:56:PRO:HG2	39:BJ:57:GLN:OE1	2.15	0.45
39:BJ:60:PHE:HE2	51:BV:78:LEU:HD11	1.77	0.45
39:BJ:97:PHE:CE2	51:BV:62:GLU:OE2	2.69	0.45
40:BK:143:ARG:O	40:BK:144:MET:C	2.59	0.45
41:BL:6:ILE:HD11	41:BL:85:ARG:HD3	1.98	0.45
42:BM:113:LYS:C	42:BM:115:GLY:H	2.21	0.45
45:BP:8:ASN:HD22	45:BP:8:ASN:N	2.09	0.45
46:BQ:46:LYS:O	46:BQ:46:LYS:HG3	2.15	0.45
49:BT:34:GLU:OE1	49:BT:35:LYS:O	2.33	0.45
50:BU:67:LYS:C	50:BU:69:LYS:H	2.23	0.45
50:BU:101:ARG:HG2	50:BU:102:GLY:H	1.82	0.45
54:BY:3:LYS:NZ	54:BY:13:ILE:HG21	2.31	0.45
55:CA:10:ILE:O	55:CA:11:ILE:O	2.34	0.45
55:CA:79:ALA:CB	55:CA:80:ASP:C	2.86	0.45
55:CA:94:SER:OG	55:CA:122:LYS:O	2.28	0.45
55:CA:151:LEU:O	55:CA:152:ASP:HB2	2.16	0.45
55:CA:164:TYR:CE2	55:CA:176:HIS:NE2	2.84	0.45
55:CA:426:LEU:C	55:CA:428:ASN:N	2.72	0.45
1:AA:4:C:C2	1:AA:2899:G:N1	2.43	0.45
1:AA:50:U:C6	1:AA:50:U:C3'	2.99	0.45
1:AA:87:C:H5''	1:AA:88:G:O5'	2.15	0.45
1:AA:111:A:C2	1:AA:112:U:C4	3.05	0.45
1:AA:116:C:H4'	1:AA:127:A:H4'	1.99	0.45
1:AA:131:G:C2	1:AA:132:G:N7	2.84	0.45
1:AA:218:A:N6	1:AA:219:G:N2	2.64	0.45
1:AA:249:C:C2'	1:AA:250:G:OP2	2.65	0.45
1:AA:280:C:C5	1:AA:283:A:N7	2.84	0.45
1:AA:416:C:C6	1:AA:416:C:C3'	3.00	0.45
1:AA:443:A:O4'	1:AA:1201:C:H4'	2.15	0.45
1:AA:454:A:O2'	1:AA:455:C:C2	2.68	0.45
1:AA:529:A:OP1	1:AA:529:A:H4'	2.16	0.45
1:AA:617:G:N7	1:AA:618:G:N7	2.64	0.45
1:AA:672:C:O2	1:AA:673:C:C5	2.70	0.45
1:AA:705:A:H62	1:AA:727:A:H8	1.62	0.45
1:AA:861:A:H2'	1:AA:862:G:C5'	2.41	0.45
1:AA:879:G:C6	1:AA:897:C:O2'	2.61	0.45
1:AA:1000:A:C5	1:AA:1001:A:C2	3.04	0.45
1:AA:1019:U:OP1	1:AA:1120:G:N2	2.42	0.45
1:AA:1144:G:C2'	1:AA:1145:C:C6	2.83	0.45
1:AA:1144:G:C5	1:AA:1145:C:N4	2.85	0.45
1:AA:1167:U:C2	1:AA:1183:G:N2	2.83	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1203:G:C5	1:AA:1240:U:C4	3.04	0.45
1:AA:1213:A:OP2	1:AA:1235:G:N2	2.48	0.45
1:AA:1283:G:O2'	1:AA:1285:G:O6	2.32	0.45
1:AA:1340:U:C5	21:AU:57:LEU:CG	2.98	0.45
1:AA:1363:C:C2	1:AA:1369:G:C6	3.04	0.45
1:AA:1451:C:C5'	1:AA:1453:A:H4'	2.46	0.45
1:AA:1473:G:O6	1:AA:1519:G:C4	2.69	0.45
1:AA:1491:G:C2	1:AA:1493:C:N4	2.78	0.45
1:AA:1523:U:N3	1:AA:1524:G:C8	2.84	0.45
1:AA:1560:G:C4	1:AA:1561:G:C8	3.04	0.45
1:AA:1661:G:C6	1:AA:1662:C:N4	2.84	0.45
1:AA:1781:C:C2'	1:AA:1782:C:OP2	2.65	0.45
1:AA:1799:G:C5	1:AA:1819:A:N7	2.85	0.45
1:AA:1903:G:C2'	1:AA:1904:G:H8	2.12	0.45
1:AA:1936:A:N9	1:AA:1940:U:N3	2.63	0.45
1:AA:1995:U:C5	1:AA:1996:C:H5	2.33	0.45
1:AA:2004:G:H2'	1:AA:2005:A:H8	1.80	0.45
1:AA:2091:U:C5'	1:AA:2093:G:OP1	2.65	0.45
1:AA:2400:G:C2	1:AA:2417:C:C4	3.05	0.45
1:AA:2414:G:N1	1:AA:2415:G:N7	2.65	0.45
1:AA:2447:G:O2'	1:AA:2448:A:P	2.74	0.45
1:AA:2516:G:N9	1:AA:2569:G:N2	2.64	0.45
1:AA:2633:G:H8	1:AA:2633:G:O5'	1.98	0.45
1:AA:2638:G:O2'	1:AA:2639:A:C8	2.65	0.45
1:AA:2703:C:C5	1:AA:2704:C:N4	2.84	0.45
1:AA:2788:C:H42	1:AA:2789:C:H42	1.50	0.45
1:AA:2830:G:H5'	5:AE:57:LYS:HZ2	1.81	0.45
2:AB:8:U:O2'	2:AB:9:G:O4'	2.27	0.45
2:AB:20:C:H2'	2:AB:21:G:O4'	2.15	0.45
2:AB:30:C:C5	2:AB:31:C:C6	3.05	0.45
2:AB:66:A:H2	2:AB:108:C:C6	2.33	0.45
2:AB:71:C:C2'	2:AB:71:C:O2	2.63	0.45
2:AB:71:C:O2	2:AB:72:G:C4'	2.64	0.45
3:AC:22:ILE:CD1	3:AC:190:ARG:NH2	2.76	0.45
3:AC:46:LYS:CD	3:AC:210:ARG:HB2	2.43	0.45
3:AC:76:ALA:CA	3:AC:149:ILE:HD11	2.46	0.45
4:AD:6:PHE:O	4:AD:27:THR:CA	2.44	0.45
4:AD:33:LEU:HD11	4:AD:61:LEU:HD11	1.98	0.45
4:AD:54:ARG:HB2	4:AD:218:ARG:HD2	1.96	0.45
4:AD:55:GLY:H	4:AD:218:ARG:HD2	1.79	0.45
4:AD:131:LEU:C	4:AD:190:TYR:CE2	2.94	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:200:ASP:OD1	4:AD:200:ASP:N	2.45	0.45
4:AD:208:LYS:HE2	4:AD:211:ARG:HG2	1.98	0.45
5:AE:103:ASP:HA	5:AE:170:LEU:HD21	1.98	0.45
6:AF:31:HIS:CE1	13:AM:11:GLY:HA3	2.52	0.45
7:AG:94:LEU:HD13	7:AG:94:LEU:H	1.80	0.45
8:AH:7:LEU:HA	8:AH:52:VAL:CG1	2.46	0.45
8:AH:9:ILE:CD1	8:AH:69:ARG:HH12	2.28	0.45
8:AH:97:ARG:O	8:AH:104:GLU:CG	2.64	0.45
10:AJ:53:VAL:CG2	10:AJ:71:THR:O	2.64	0.45
10:AJ:59:ILE:N	10:AJ:59:ILE:CD1	2.73	0.45
10:AJ:75:SER:HA	10:AJ:78:ILE:HD12	1.99	0.45
10:AJ:79:ARG:CD	10:AJ:131:ALA:HA	2.47	0.45
11:AK:24:GLY:O	11:AK:25:ARG:C	2.60	0.45
11:AK:54:VAL:HG12	11:AK:122:VAL:HG11	1.97	0.45
12:AL:23:ARG:H	12:AL:23:ARG:CD	2.29	0.45
12:AL:62:VAL:C	12:AL:63:VAL:HG22	2.35	0.45
13:AM:78:PRO:O	13:AM:81:GLN:HB2	2.17	0.45
13:AM:96:THR:HB	13:AM:99:LEU:CB	2.47	0.45
13:AM:99:LEU:CD1	13:AM:101:VAL:HG22	2.44	0.45
13:AM:131:SER:N	13:AM:134:ALA:CB	2.79	0.45
14:AN:54:MET:HE1	14:AN:118:LEU:N	2.31	0.45
14:AN:74:TYR:CD1	14:AN:92:GLY:O	2.70	0.45
16:AP:49:VAL:CG1	16:AP:76:LYS:HZ1	2.26	0.45
17:AQ:50:ILE:HG22	17:AQ:67:SER:C	2.41	0.45
17:AQ:58:ASN:CA	17:AQ:61:PHE:CE2	2.99	0.45
18:AR:36:ARG:O	18:AR:40:PHE:HD1	1.98	0.45
18:AR:80:ILE:C	18:AR:82:GLY:N	2.72	0.45
18:AR:89:GLU:O	18:AR:90:VAL:HG22	2.16	0.45
19:AS:1:MET:HB3	19:AS:15:GLU:HG2	1.98	0.45
19:AS:40:LEU:HB3	19:AS:51:VAL:CG1	2.47	0.45
19:AS:42:GLY:O	19:AS:49:THR:O	2.34	0.45
19:AS:78:LYS:HB2	19:AS:84:LYS:CB	2.42	0.45
22:AV:44:ILE:O	22:AV:44:ILE:CG2	2.63	0.45
22:AV:46:LYS:HB2	22:AV:57:GLN:N	2.31	0.45
23:AW:59:LEU:C	23:AW:59:LEU:CD2	2.89	0.45
23:AW:61:LEU:HD23	23:AW:66:SER:HA	1.98	0.45
24:AX:31:VAL:CG1	24:AX:67:VAL:CG2	2.94	0.45
24:AX:46:LYS:N	24:AX:46:LYS:CD	2.73	0.45
27:Aa:42:PHE:N	27:Aa:58:ARG:HG3	2.31	0.45
28:Ab:51:TYR:HD2	28:Ab:55:ARG:H	1.62	0.45
29:Ac:19:ARG:O	29:Ac:20:ASN:CG	2.59	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:21:LYS:HZ2	31:Ae:21:LYS:CB	2.10	0.45
32:Af:7:VAL:CG2	32:Af:34:GLN:OE1	2.61	0.45
34:BA:80:G:C3'	34:BA:81:G:H8	2.29	0.45
34:BA:89:U:O5'	34:BA:89:U:H6	1.99	0.45
34:BA:97:U:H2'	34:BA:99:C:C6	2.51	0.45
34:BA:144:G:C6	34:BA:179:A:C6	3.05	0.45
34:BA:260:G:C4	34:BA:261:U:N3	2.84	0.45
34:BA:292:G:C4	34:BA:309:G:N2	2.84	0.45
34:BA:298:A:H3'	34:BA:299:G:H8	1.80	0.45
34:BA:320:C:O2'	34:BA:321:A:C5'	2.65	0.45
34:BA:416:G:O6	34:BA:428:G:O6	2.34	0.45
34:BA:589:C:N4	34:BA:590:C:H41	2.14	0.45
34:BA:644:G:C5	34:BA:645:C:C5	3.04	0.45
34:BA:659:U:C2	34:BA:660:G:N7	2.84	0.45
34:BA:688:G:H2'	34:BA:689:C:O4'	2.16	0.45
34:BA:711:G:C2'	34:BA:712:A:O5'	2.63	0.45
34:BA:755:G:O2'	41:BL:1:MET:HE2	2.16	0.45
34:BA:902:G:C2'	34:BA:903:G:H5'	2.43	0.45
34:BA:918:A:O2'	34:BA:919:A:P	2.74	0.45
34:BA:942:G:H21	42:BM:124:GLN:CD	2.23	0.45
34:BA:1054:C:P	34:BA:1197:G:P	3.13	0.45
34:BA:1057:G:C4	34:BA:1058:G:C8	3.05	0.45
34:BA:1072:G:C6	34:BA:1104:G:N1	2.84	0.45
34:BA:1114:C:C2	34:BA:1187:G:N1	2.84	0.45
34:BA:1158:C:C1'	35:BF:133:LYS:CE	2.94	0.45
34:BA:1361:G:C8	34:BA:1361:G:C3'	2.99	0.45
34:BA:1376:U:H2'	34:BA:1377:A:H8	1.75	0.45
34:BA:1381:U:H2'	34:BA:1381:U:O2	2.14	0.45
34:BA:1419:G:O2'	34:BA:1420:C:O5'	2.34	0.45
34:BA:1449:C:N3	34:BA:1454:G:N2	2.64	0.45
35:BF:16:HIS:CE1	35:BF:213:LEU:CD1	2.97	0.45
35:BF:32:ILE:HD12	35:BF:190:THR:CG2	2.46	0.45
35:BF:160:ASP:O	35:BF:161:ALA:HB2	2.15	0.45
35:BF:171:ALA:HA	35:BF:174:VAL:CB	2.40	0.45
35:BF:173:ALA:C	35:BF:176:GLU:HB2	2.40	0.45
35:BF:223:ILE:HA	35:BF:226:ARG:HD2	1.97	0.45
36:BG:22:TRP:CB	36:BG:59:ARG:CB	2.87	0.45
36:BG:132:ARG:O	36:BG:135:LYS:HB2	2.16	0.45
36:BG:182:ILE:CD1	36:BG:203:PHE:HD1	2.30	0.45
37:BH:61:LYS:HA	37:BH:203:VAL:CG1	2.46	0.45
38:BI:39:GLY:C	38:BI:68:GLU:OE2	2.59	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:61:TYR:CA	38:BI:64:ARG:HG2	2.45	0.45
38:BI:102:ALA:O	38:BI:107:ARG:NH2	2.48	0.45
40:BK:94:ARG:NH1	40:BK:98:SER:OG	2.49	0.45
41:BL:104:ARG:HE	41:BL:138:TRP:HZ3	1.62	0.45
41:BL:104:ARG:C	41:BL:106:GLY:N	2.73	0.45
41:BL:137:VAL:HG12	41:BL:138:TRP:H	1.82	0.45
42:BM:26:VAL:HG13	42:BM:63:ILE:HD13	1.98	0.45
43:BN:5:ARG:CZ	43:BN:5:ARG:CB	2.88	0.45
43:BN:54:PHE:H	47:BR:41:ARG:HH21	1.63	0.45
44:BO:22:HIS:CD2	44:BO:23:ALA:N	2.83	0.45
44:BO:34:ASP:CB	44:BO:35:PRO:CD	2.94	0.45
44:BO:42:TRP:CE3	44:BO:42:TRP:C	2.93	0.45
44:BO:85:ARG:CD	44:BO:113:PRO:HD2	2.46	0.45
45:BP:34:ARG:HD3	45:BP:105:TYR:CZ	2.50	0.45
47:BR:4:LYS:HA	47:BR:7:ILE:HD11	1.98	0.45
48:BS:36:ILE:CG1	48:BS:60:VAL:HG22	2.45	0.45
49:BT:68:ASP:C	49:BT:70:ALA:N	2.69	0.45
50:BU:87:LYS:HA	50:BU:87:LYS:HD2	1.53	0.45
50:BU:92:ARG:O	50:BU:93:GLN:C	2.57	0.45
51:BV:51:LEU:CD1	51:BV:51:LEU:H	2.28	0.45
53:BX:86:ARG:O	53:BX:90:GLN:OE1	2.34	0.45
55:CA:77:GLY:CA	55:CA:78:HIS:HB3	2.43	0.45
55:CA:127:ILE:HB	55:CA:164:TYR:CG	2.52	0.45
55:CA:139:TRP:CZ2	55:CA:143:GLN:HG3	2.52	0.45
55:CA:176:HIS:HA	55:CA:177:GLU:CG	2.46	0.45
55:CA:223:ILE:CA	55:CA:272:ASP:CB	2.86	0.45
55:CA:364:LEU:HA	55:CA:364:LEU:HD12	1.82	0.45
55:CA:505:GLN:CB	55:CA:510:LEU:HD12	2.41	0.45
55:CA:581:THR:C	55:CA:583:THR:H	2.24	0.45
1:AA:111:A:H4'	25:AY:60:ASN:CG	2.41	0.45
1:AA:147:U:H2'	1:AA:148:C:C5	2.51	0.45
1:AA:191:A:N3	1:AA:192:C:H1'	2.32	0.45
1:AA:295:G:HO2'	1:AA:296:C:H5'	1.76	0.45
1:AA:375:C:O2	1:AA:375:C:C2'	2.62	0.45
1:AA:450:G:H3'	1:AA:451:C:C5'	2.47	0.45
1:AA:451:C:C4	1:AA:453:C:H3'	2.49	0.45
1:AA:467:G:P	30:Ad:33:ARG:NH1	2.88	0.45
1:AA:489:G:C4	1:AA:491:G:C8	3.04	0.45
1:AA:578:A:C3'	1:AA:579:G:H5''	2.46	0.45
1:AA:588:U:H2'	1:AA:589:C:H6	1.80	0.45
1:AA:590:A:C2	1:AA:591:C:C2	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:596:G:C6	1:AA:597:U:N3	2.85	0.45
1:AA:618:G:H2'	1:AA:618(A):C:N1	2.31	0.45
1:AA:674:G:O3'	6:AF:74:ARG:NH1	2.50	0.45
1:AA:686:G:O6	30:Ad:12:ARG:NE	2.50	0.45
1:AA:782:A:C5'	1:AA:783:A:OP1	2.62	0.45
1:AA:783:A:C2'	1:AA:784:A:C5'	2.92	0.45
1:AA:835:A:N6	1:AA:836:G:C6	2.85	0.45
1:AA:954:G:O2'	1:AA:2274:A:C2	2.58	0.45
1:AA:960:A:C8	1:AA:960:A:O5'	2.70	0.45
1:AA:997:G:H5''	18:AR:92:ARG:CZ	2.44	0.45
1:AA:1026:U:H2'	1:AA:1027:A:O5'	2.16	0.45
1:AA:1062:G:C4	1:AA:1063:G:C8	3.04	0.45
1:AA:1119:C:O2	1:AA:1119:C:C2'	2.64	0.45
1:AA:1130:U:O2'	1:AA:1131:G:P	2.73	0.45
1:AA:1131:G:C2	1:AA:1132:A:C5	3.05	0.45
1:AA:1231:G:H2'	1:AA:1232:G:H8	1.82	0.45
1:AA:1342:A:C8	1:AA:1601:G:O6	2.69	0.45
1:AA:1359:A:N6	1:AA:1360:A:C5	2.83	0.45
1:AA:1361:G:O2'	1:AA:1362:C:H5'	2.16	0.45
1:AA:1366:A:H5''	27:Aa:1:MET:N	2.31	0.45
1:AA:1405:U:C2	1:AA:1406:U:C5	3.04	0.45
1:AA:1453:A:C8	15:AO:73:VAL:HG11	2.51	0.45
1:AA:1477:A:C2	1:AA:1516:U:O2	2.70	0.45
1:AA:1651:G:O2'	1:AA:1652:A:C1'	2.64	0.45
1:AA:1654:A:N1	1:AA:1655:A:C8	2.84	0.45
1:AA:1655:A:H61	1:AA:2005:A:C1'	2.18	0.45
1:AA:1798:U:N3	1:AA:1819:A:C2	2.84	0.45
1:AA:1970:A:C5	1:AA:1972:A:C5	3.05	0.45
1:AA:1996:C:OP2	12:AL:31:LYS:NZ	2.49	0.45
1:AA:2056:G:O5'	1:AA:2057:A:OP1	2.34	0.45
1:AA:2175:C:N3	1:AA:2176:A:N7	2.64	0.45
1:AA:2232:U:C2'	1:AA:2233:U:O5'	2.64	0.45
1:AA:2268:A:H3'	1:AA:2269:A:C5'	2.46	0.45
1:AA:2306:C:N4	1:AA:2311:A:C2	2.83	0.45
1:AA:2309:A:N6	7:AG:80:PHE:CE2	2.85	0.45
1:AA:2414:G:C2	1:AA:2415:G:N7	2.85	0.45
1:AA:2521:C:C2	1:AA:2545:G:N2	2.84	0.45
1:AA:2599:G:C2'	1:AA:2600:A:H5'	2.46	0.45
1:AA:2602:A:O2'	1:AA:2603:G:P	2.75	0.45
1:AA:2637:U:O5'	5:AE:81:ILE:HD11	2.15	0.45
1:AA:2670:A:C2'	1:AA:2671:A:H8	2.25	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2717:G:C4	1:AA:2718:G:N7	2.85	0.45
1:AA:2754:U:H2'	1:AA:2755:C:C5'	2.35	0.45
1:AA:2834:G:C8	1:AA:2834:G:C3'	2.99	0.45
1:AA:2839:G:C5	1:AA:2840:C:C4	3.03	0.45
1:AA:2851:A:C2'	1:AA:2852:G:O5'	2.64	0.45
2:AB:21:G:C2	2:AB:63:G:C6	3.04	0.45
2:AB:50:G:P	16:AP:63:THR:OG1	2.74	0.45
3:AC:11:LEU:HD12	3:AC:14:VAL:HB	1.98	0.45
3:AC:61:THR:HG21	3:AC:160:ARG:CZ	2.45	0.45
3:AC:99:ILE:HG12	3:AC:107:TRP:CZ3	2.51	0.45
3:AC:162:GLU:O	3:AC:163:PHE:HD1	1.98	0.45
4:AD:34:VAL:N	4:AD:104:TYR:HH	2.13	0.45
4:AD:63:ARG:CZ	4:AD:63:ARG:N	2.79	0.45
5:AE:53:PRO:HD2	5:AE:74:PRO:HA	1.97	0.45
5:AE:66:HIS:O	5:AE:68:ALA:N	2.50	0.45
6:AF:135:LYS:HE3	6:AF:136:THR:OG1	2.16	0.45
6:AF:145:GLU:C	6:AF:147:GLY:N	2.73	0.45
7:AG:101:ILE:C	7:AG:104:GLU:HB3	2.39	0.45
7:AG:107:LEU:HG	7:AG:177:GLY:O	2.16	0.45
7:AG:115:ARG:C	7:AG:117:PHE:H	2.25	0.45
8:AH:60:ARG:HD2	8:AH:61:HIS:CD2	2.52	0.45
8:AH:71:LEU:O	8:AH:74:ASN:CB	2.61	0.45
8:AH:104:GLU:C	8:AH:105:LEU:CG	2.89	0.45
10:AJ:21:PRO:O	10:AJ:25:PRO:HD2	2.17	0.45
11:AK:34:LEU:HD21	11:AK:120:LEU:CD1	2.46	0.45
11:AK:82:LEU:HD23	11:AK:82:LEU:N	2.31	0.45
11:AK:107:LEU:C	11:AK:107:LEU:CD2	2.71	0.45
13:AM:36:LYS:HD3	13:AM:36:LYS:HA	1.51	0.45
13:AM:124:LYS:NZ	13:AM:141:ALA:HB1	2.31	0.45
14:AN:25:ASP:C	14:AN:26:TYR:CD2	2.95	0.45
14:AN:42:ILE:CD1	14:AN:46:GLN:NE2	2.78	0.45
15:AO:75:LEU:HD23	15:AO:78:LYS:HB3	1.98	0.45
16:AP:9:ARG:CA	16:AP:12:PHE:CD2	2.99	0.45
17:AQ:114:LEU:O	17:AQ:115:ARG:C	2.59	0.45
22:AV:10:GLY:N	22:AV:110:GLU:OE2	2.47	0.45
22:AV:46:LYS:HZ2	22:AV:52:SER:CB	2.22	0.45
22:AV:54:LYS:O	22:AV:56:PRO:HD3	2.16	0.45
23:AW:2:GLU:OE1	23:AW:58:VAL:CG2	2.64	0.45
23:AW:18:LEU:CB	23:AW:23:LYS:O	2.61	0.45
24:AX:50:ASN:CB	24:AX:63:VAL:HG22	2.46	0.45
26:AZ:51:ALA:O	26:AZ:52:HIS:C	2.58	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Ac:19:ARG:CG	29:Ac:43:CYS:SG	3.02	0.45
30:Ad:31:LEU:C	30:Ad:35:ARG:CD	2.87	0.45
30:Ad:34:ARG:HH12	30:Ad:42:LEU:HG	1.81	0.45
31:Ae:26:LYS:CD	31:Ae:45:GLY:H	2.29	0.45
34:BA:87:A:C8	34:BA:88:C:C2	3.05	0.45
34:BA:102:G:N3	34:BA:151:A:H2	2.14	0.45
34:BA:136:C:H4'	49:BT:65:GLN:OE1	2.16	0.45
34:BA:164:U:C2'	34:BA:165:C:C6	2.99	0.45
34:BA:251:G:H1	34:BA:271:C:H41	1.64	0.45
34:BA:398:C:H2'	34:BA:399:G:H8	1.81	0.45
34:BA:493:G:HO2'	34:BA:494:U:H6	1.65	0.45
34:BA:513:C:N3	34:BA:514:C:C5	2.84	0.45
34:BA:632:A:H2'	34:BA:633:G:O4'	2.16	0.45
34:BA:718:G:C4	44:BO:116:HIS:NE2	2.84	0.45
34:BA:737:A:OP1	39:BJ:92:LYS:N	2.41	0.45
34:BA:941:G:H2'	34:BA:942:G:O5'	2.15	0.45
34:BA:966:G:O2'	34:BA:967:C:O5'	2.34	0.45
34:BA:968:A:O4'	34:BA:968:A:OP1	2.33	0.45
34:BA:995:C:C2'	47:BR:4:LYS:HE2	2.46	0.45
34:BA:1026:G:C8	34:BA:1027:C:C5	3.04	0.45
34:BA:1067:A:O2'	34:BA:1068:G:O5'	2.33	0.45
34:BA:1067:A:H4'	34:BA:1068:G:O5'	2.15	0.45
34:BA:1114:C:N3	34:BA:1115:C:C5	2.84	0.45
34:BA:1115:C:C4	34:BA:1186:G:O6	2.69	0.45
34:BA:1210:C:H2'	34:BA:1211:U:C6	2.51	0.45
34:BA:1250:A:H4'	42:BM:68:GLY:N	2.31	0.45
34:BA:1317:C:N3	34:BA:1318:A:N9	2.63	0.45
34:BA:1440:C:N3	34:BA:1462:G:N1	2.64	0.45
34:BA:1472:U:C2'	34:BA:1473:A:H5'	2.47	0.45
35:BF:143:GLU:CD	35:BF:144:ARG:N	2.75	0.45
35:BF:187:LEU:C	35:BF:187:LEU:CD1	2.81	0.45
35:BF:193:ASP:OD1	35:BF:193:ASP:N	2.41	0.45
36:BG:8:ILE:O	36:BG:9:GLY:C	2.60	0.45
36:BG:134:ILE:N	36:BG:134:ILE:CD1	2.79	0.45
36:BG:185:GLY:O	36:BG:199:LYS:HA	2.16	0.45
37:BH:194:LEU:O	37:BH:195:ALA:O	2.35	0.45
38:BI:151:LEU:HD11	41:BL:67:PRO:HG2	1.98	0.45
39:BJ:19:LEU:HD11	39:BJ:23:LYS:NZ	2.31	0.45
40:BK:42:ILE:HD13	40:BK:116:ALA:HB1	1.98	0.45
40:BK:51:GLN:NE2	40:BK:58:PRO:HD3	2.31	0.45
41:BL:19:VAL:CG1	41:BL:21:LYS:HE3	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:46:LYS:HG3	41:BL:64:LYS:HB2	1.97	0.45
42:BM:3:GLN:CA	42:BM:20:ARG:HG2	2.43	0.45
42:BM:9:ARG:HD2	42:BM:14:VAL:CG1	2.43	0.45
44:BO:28:THR:CG2	44:BO:29:ILE:H	2.27	0.45
45:BP:57:LYS:HG2	45:BP:67:THR:CG2	2.30	0.45
45:BP:68:ALA:HB1	45:BP:99:HIS:CA	2.43	0.45
45:BP:79:GLU:O	45:BP:81:SER:N	2.43	0.45
45:BP:86:ARG:HD3	45:BP:101:VAL:CG1	2.47	0.45
46:BQ:19:LEU:HD12	46:BQ:20:THR:H	1.78	0.45
46:BQ:80:ARG:CZ	46:BQ:81:LEU:HB3	2.47	0.45
46:BQ:102:ARG:C	46:BQ:103:THR:HG1	2.12	0.45
47:BR:9:LYS:HD3	47:BR:9:LYS:O	2.17	0.45
49:BT:19:ILE:HG13	49:BT:38:TYR:CA	2.40	0.45
49:BT:34:GLU:OE2	49:BT:35:LYS:N	2.50	0.45
50:BU:15:MET:H	50:BU:15:MET:CE	2.30	0.45
52:BW:7:LYS:C	52:BW:7:LYS:HZ1	2.23	0.45
53:BX:81:LYS:O	53:BX:84:LEU:N	2.49	0.45
53:BX:96:GLY:O	53:BX:97:ALA:HB3	2.15	0.45
53:BX:99:LEU:H	53:BX:99:LEU:HD23	1.80	0.45
55:CA:5:LEU:HB2	55:CA:268:ALA:CB	2.28	0.45
55:CA:15:ASP:CG	55:CA:16:HIS:CD2	2.91	0.45
55:CA:486:GLY:C	55:CA:527:HIS:H	2.14	0.45
55:CA:596:ASP:O	55:CA:599:ARG:HB2	2.16	0.45
1:AA:28:A:O2'	1:AA:583:G:H5'	2.16	0.45
1:AA:223:A:H2	1:AA:407:G:N3	2.14	0.45
1:AA:284:U:H3'	1:AA:284:U:P	2.56	0.45
1:AA:298:G:H1	1:AA:338:G:H4'	1.82	0.45
1:AA:342:G:H8	1:AA:342:G:OP2	1.98	0.45
1:AA:365:C:C2	1:AA:366:C:C5	3.05	0.45
1:AA:459:U:C2'	1:AA:460:A:O5'	2.64	0.45
1:AA:462:C:H42	1:AA:467:G:H1	1.65	0.45
1:AA:479:A:N3	1:AA:480:A:C5	2.84	0.45
1:AA:815:C:H2'	1:AA:816:C:H6	1.82	0.45
1:AA:856:C:O4'	24:AX:69:PHE:HD2	1.99	0.45
1:AA:1122:G:N2	1:AA:1123:C:C6	2.84	0.45
1:AA:1128:A:N1	1:AA:1129:A:C6	2.84	0.45
1:AA:1191:G:C6	1:AA:1192:G:C5	3.04	0.45
1:AA:1225:C:OP1	19:AS:88:ARG:HB3	2.16	0.45
1:AA:1301:A:C2'	1:AA:1302:A:O5'	2.64	0.45
1:AA:1304:C:H2'	1:AA:1305:C:C5'	2.47	0.45
1:AA:1525:G:H2'	1:AA:1526:G:O5'	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1560:G:H2'	1:AA:1561:G:C8	2.48	0.45
1:AA:1570:A:N1	1:AA:1571:A:N7	2.65	0.45
1:AA:1574:C:C4	1:AA:1575:C:C4	3.04	0.45
1:AA:1607:C:O2'	1:AA:1608:A:OP2	2.25	0.45
1:AA:1621:U:C6	1:AA:1621:U:C3'	3.00	0.45
1:AA:1657:C:C4	1:AA:1658:C:C5	3.04	0.45
1:AA:1684:C:N4	1:AA:1705:G:N1	2.64	0.45
1:AA:1786:A:C2'	1:AA:1787:A:H5'	2.46	0.45
1:AA:1819:A:N3	1:AA:1821:A:N1	2.64	0.45
1:AA:1953:A:N6	1:AA:2550:G:C5'	2.78	0.45
1:AA:1991:U:C6	1:AA:1991:U:C3'	2.99	0.45
1:AA:1999:C:O2'	1:AA:2000:G:H5'	2.17	0.45
1:AA:2016:U:C1'	28:Ab:6:VAL:CG1	2.94	0.45
1:AA:2040:C:N3	1:AA:2041:U:C5	2.85	0.45
1:AA:2073:C:C3'	1:AA:2074:U:H5'	2.46	0.45
1:AA:2124:G:N3	3:AC:217:THR:HG23	2.31	0.45
1:AA:2224:G:H4'	4:AD:262:ARG:HH21	1.81	0.45
1:AA:2395:C:C5	1:AA:2396:G:N7	2.84	0.45
1:AA:2415:G:C4	1:AA:2416:C:C5	3.04	0.45
1:AA:2457:U:O4	1:AA:2458:G:N2	2.50	0.45
1:AA:2538:C:C2	1:AA:2539:C:H5	2.33	0.45
1:AA:2553:G:N3	1:AA:2553:G:H2'	2.31	0.45
1:AA:2568:C:O5'	1:AA:2568:C:H6	2.00	0.45
1:AA:2586:C:O2'	1:AA:2587:A:H5'	2.16	0.45
1:AA:2606:C:C2	1:AA:2607:G:N7	2.85	0.45
1:AA:2666:C:H6	1:AA:2667:C:H5'	1.81	0.45
1:AA:2720:U:C3'	1:AA:2721:A:C8	2.96	0.45
1:AA:2748:A:O2'	8:AH:63:SER:O	2.29	0.45
1:AA:2780:G:H2'	1:AA:2781:A:H5''	1.96	0.45
1:AA:2805:G:C2'	1:AA:2807:G:C4'	2.94	0.45
2:AB:7:G:C5'	16:AP:29:PHE:CE2	2.99	0.45
3:AC:22:ILE:HD12	3:AC:190:ARG:HH22	1.80	0.45
3:AC:43:VAL:HG21	3:AC:175:VAL:HG21	1.98	0.45
3:AC:44:HIS:CD2	3:AC:215:THR:HG21	2.52	0.45
4:AD:268:ARG:HG2	4:AD:269:PHE:N	2.31	0.45
5:AE:49:LEU:CD1	5:AE:51:PHE:H	2.26	0.45
5:AE:119:ARG:HE	5:AE:120:TRP:HB3	1.81	0.45
6:AF:32:LEU:HD21	6:AF:105:VAL:CG1	2.47	0.45
6:AF:34:TRP:CG	13:AM:8:PRO:HB2	2.51	0.45
6:AF:39:TRP:CG	6:AF:101:LEU:HG	2.52	0.45
6:AF:142:TRP:O	6:AF:143:ALA:C	2.58	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:36:LYS:CA	7:AG:95:ARG:O	2.64	0.45
7:AG:37:VAL:CB	7:AG:99:MET:SD	3.03	0.45
7:AG:75:LYS:CB	7:AG:84:LYS:H	2.19	0.45
7:AG:92:VAL:HG12	7:AG:92:VAL:O	2.15	0.45
7:AG:113:ARG:O	7:AG:114:ILE:CB	2.63	0.45
8:AH:45:VAL:O	8:AH:46:GLU:OE1	2.34	0.45
8:AH:159:GLU:OE2	8:AH:163:TYR:CE1	2.70	0.45
8:AH:163:TYR:CD1	8:AH:163:TYR:N	2.83	0.45
10:AJ:14:ALA:HB2	10:AJ:53:VAL:HB	1.97	0.45
11:AK:67:LEU:CA	11:AK:70:LYS:HZ1	2.30	0.45
11:AK:90:MET:HB3	11:AK:91:LEU:HD23	1.99	0.45
11:AK:109:LYS:HE3	11:AK:111:PRO:CD	2.46	0.45
12:AL:39:ILE:CB	12:AL:59:LYS:HZ1	2.27	0.45
14:AN:37:LEU:HD12	14:AN:129:THR:C	2.41	0.45
14:AN:56:ARG:NH1	14:AN:57:HIS:HA	2.30	0.45
14:AN:131:ILE:CG2	14:AN:132:VAL:N	2.80	0.45
15:AO:57:ARG:HE	15:AO:62:ALA:CB	2.17	0.45
16:AP:57:LYS:CD	16:AP:65:VAL:HA	2.46	0.45
17:AQ:37:GLY:CA	17:AQ:42:ILE:O	2.64	0.45
17:AQ:38:ASN:O	17:AQ:39:ARG:O	2.34	0.45
17:AQ:109:GLU:O	17:AQ:110:ILE:CB	2.59	0.45
19:AS:83:ARG:HD3	19:AS:84:LYS:CA	2.46	0.45
20:AT:10:VAL:CG2	20:AT:12:ILE:HD11	2.46	0.45
20:AT:13:SER:CB	20:AT:16:LYS:HE2	2.43	0.45
22:AV:14:LEU:HD22	22:AV:19:LYS:CB	2.39	0.45
22:AV:49:VAL:HG23	22:AV:52:SER:H	1.82	0.45
23:AW:39:VAL:HA	23:AW:44:PHE:CE1	2.50	0.45
23:AW:70:LEU:O	23:AW:88:PHE:CA	2.64	0.45
25:AY:22:GLU:CD	25:AY:22:GLU:N	2.74	0.45
26:AZ:7:LYS:O	26:AZ:54:VAL:CG2	2.59	0.45
26:AZ:12:PRO:HA	26:AZ:15:TYR:CZ	2.46	0.45
26:AZ:40:THR:C	26:AZ:42:ALA:N	2.72	0.45
27:Aa:6:HIS:CB	27:Aa:7:PRO:HD3	2.46	0.45
27:Aa:57:GLU:H	27:Aa:61:ARG:HG2	1.82	0.45
34:BA:95:G:H2'	34:BA:96:G:H5'	1.98	0.45
34:BA:115:G:O2'	34:BA:116:A:P	2.72	0.45
34:BA:132:C:C2	34:BA:231:G:C2	3.04	0.45
34:BA:134:A:H2'	34:BA:135:C:O5'	2.17	0.45
34:BA:186(B):C:N3	34:BA:186(C):G:C8	2.84	0.45
34:BA:191:G:N3	53:BX:105:SER:HB3	2.31	0.45
34:BA:307:C:C5'	34:BA:308:C:OP2	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:311:C:O2'	34:BA:312:C:H5'	2.17	0.45
34:BA:404:U:H5'	37:BH:122:ARG:CD	2.45	0.45
34:BA:483:C:C6	34:BA:483:C:C3'	3.00	0.45
34:BA:598:U:C4'	41:BL:94:TYR:HD2	2.17	0.45
34:BA:617:G:H4'	49:BT:44:THR:HG1	1.80	0.45
34:BA:622:A:C4	34:BA:623:C:C6	3.04	0.45
34:BA:624:C:H4'	49:BT:10:GLY:C	2.41	0.45
34:BA:631:G:O2'	34:BA:632:A:C8	2.60	0.45
34:BA:720:C:C4	34:BA:721:G:H2'	2.51	0.45
34:BA:771:G:O6	34:BA:809:G:C6	2.69	0.45
34:BA:779:C:N3	34:BA:780:A:N3	2.64	0.45
34:BA:792:A:O2'	34:BA:793:U:H5''	2.17	0.45
34:BA:800:G:H8	34:BA:800:G:P	2.39	0.45
34:BA:817:C:H1'	34:BA:819:A:C5'	2.46	0.45
34:BA:922:G:H4'	38:BI:20:GLN:CA	2.27	0.45
34:BA:943:U:O5'	34:BA:943:U:H6	2.00	0.45
34:BA:1005:A:C5	34:BA:1026:G:N2	2.82	0.45
34:BA:1079:G:N2	34:BA:1080:A:C2	2.84	0.45
34:BA:1109:C:N1	34:BA:1110:A:C8	2.84	0.45
34:BA:1263:C:C2'	34:BA:1264:C:H6	2.16	0.45
34:BA:1498:U:H2'	34:BA:1499:A:OP2	2.16	0.45
35:BF:76:GLN:HG3	35:BF:206:ASP:OD2	2.16	0.45
35:BF:80:ILE:CG2	35:BF:81:VAL:N	2.78	0.45
35:BF:115:LEU:HB2	35:BF:145:LEU:HD21	1.97	0.45
36:BG:5:ILE:CD1	36:BG:10:PHE:CE2	2.99	0.45
36:BG:164:ARG:HG2	36:BG:165:THR:N	2.32	0.45
38:BI:52:PRO:O	38:BI:55:VAL:N	2.50	0.45
39:BJ:30:LEU:HD23	39:BJ:75:LEU:CD1	2.43	0.45
39:BJ:46:ARG:HH12	51:BV:37:VAL:HG22	1.81	0.45
40:BK:26:PHE:CD2	40:BK:62:PHE:HE1	2.34	0.45
40:BK:126:ASP:O	40:BK:131:LYS:CG	2.64	0.45
40:BK:129:GLU:HB3	40:BK:131:LYS:HG2	1.99	0.45
41:BL:15:ASN:N	41:BL:15:ASN:HD22	2.14	0.45
43:BN:8:LEU:HG	43:BN:19:SER:HB3	1.98	0.45
44:BO:32:ILE:O	44:BO:39:PRO:HB2	2.16	0.45
44:BO:71:LYS:O	44:BO:74:ALA:CB	2.62	0.45
45:BP:26:ALA:HA	45:BP:98:TYR:HE2	1.80	0.45
45:BP:126:LYS:HD2	45:BP:126:LYS:C	2.41	0.45
48:BS:21:ASP:OD2	48:BS:24:SER:HB3	2.17	0.45
48:BS:62:GLN:CA	48:BS:65:ARG:HH12	2.30	0.45
49:BT:8:ARG:NH1	49:BT:14:ASN:O	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:19:ILE:HD11	49:BT:38:TYR:C	2.42	0.45
50:BU:7:THR:HG22	50:BU:56:VAL:CG1	2.47	0.45
50:BU:17:LYS:HE3	50:BU:48:GLU:CA	2.44	0.45
52:BW:21:GLU:O	52:BW:24:ALA:HB2	2.17	0.45
53:BX:50:GLU:HB2	53:BX:99:LEU:HD12	1.99	0.45
55:CA:267:LEU:CD2	55:CA:268:ALA:N	2.75	0.45
55:CA:318:PHE:CD2	55:CA:519:TYR:HE1	2.11	0.45
1:AA:218:A:H2'	1:AA:219:G:C8	2.51	0.45
1:AA:380:U:O2'	1:AA:381:G:H5'	2.16	0.45
1:AA:389:G:P	27:Aa:24:THR:HG23	2.56	0.45
1:AA:424:G:N3	1:AA:425:G:C8	2.85	0.45
1:AA:447:A:C8	1:AA:454:A:N6	2.84	0.45
1:AA:500:G:C2'	1:AA:501:A:H3'	2.46	0.45
1:AA:511:U:C5	1:AA:512:G:C4	3.03	0.45
1:AA:523:C:H2'	1:AA:524:U:C5'	2.47	0.45
1:AA:531:C:C5'	1:AA:532:A:N3	2.77	0.45
1:AA:607:U:C2	1:AA:608:A:H8	2.33	0.45
1:AA:612:G:H2'	1:AA:615:G:C4	2.51	0.45
1:AA:658:C:H2'	1:AA:659:C:C6	2.51	0.45
1:AA:768:G:C4	1:AA:769:G:C8	3.04	0.45
1:AA:820:A:OP2	1:AA:973:A:N6	2.50	0.45
1:AA:833:U:H2'	1:AA:834:C:H6	1.80	0.45
1:AA:1036:G:O6	1:AA:1120:G:O6	2.22	0.45
1:AA:1055:G:N3	1:AA:1084:A:N3	2.64	0.45
1:AA:1079:C:N4	1:AA:1088:A:C5'	2.66	0.45
1:AA:1202:C:N4	1:AA:1241:A:N7	2.65	0.45
1:AA:1203:G:N1	1:AA:1206:G:N1	2.59	0.45
1:AA:1270:C:O5'	1:AA:1270:C:C6	2.67	0.45
1:AA:1313:U:O2	1:AA:1314:C:C5	2.69	0.45
1:AA:1342:A:N9	1:AA:1345:C:N4	2.64	0.45
1:AA:1343:G:C6	1:AA:1404:C:N3	2.85	0.45
1:AA:1378:A:C2	1:AA:1380:G:N9	2.85	0.45
1:AA:1658:C:OP1	5:AE:134:ILE:CG1	2.64	0.45
1:AA:1686:C:N4	1:AA:1703:G:O6	2.49	0.45
1:AA:1784:A:C1'	1:AA:1785:A:C8	3.00	0.45
1:AA:1826:G:C6	1:AA:1827:C:C5	3.04	0.45
1:AA:1935:G:H4'	1:AA:1937:A:C2	2.51	0.45
1:AA:2051:A:N3	1:AA:2052:G:N7	2.65	0.45
1:AA:2091:U:O4	1:AA:2092:U:C5	2.70	0.45
1:AA:2177:C:O2'	1:AA:2178:C:H5'	2.17	0.45
1:AA:2218:G:C4	1:AA:2219:G:C8	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2230:G:H1'	27:Aa:58:ARG:HH22	1.79	0.45
1:AA:2285:C:C6	1:AA:2285:C:C3'	2.99	0.45
1:AA:2298:A:H2'	1:AA:2299:G:H8	1.82	0.45
1:AA:2331:G:H4'	24:AX:42:GLY:C	2.41	0.45
1:AA:2335:A:N7	1:AA:2337:G:C6	2.85	0.45
1:AA:2341:G:C2'	1:AA:2342:C:C6	2.89	0.45
1:AA:2345:G:N2	1:AA:2382:G:OP2	2.49	0.45
1:AA:2352:A:C8	1:AA:2366:A:C6	3.04	0.45
1:AA:2397:G:H2'	1:AA:2398:U:C6	2.51	0.45
1:AA:2431:U:OP2	1:AA:2432:A:P	2.75	0.45
1:AA:2432:A:N7	1:AA:2433:A:C6	2.85	0.45
1:AA:2532:G:C8	1:AA:2533:A:N7	2.85	0.45
1:AA:2547:U:H5''	1:AA:2547:U:C6	2.52	0.45
1:AA:2550:G:N1	1:AA:2559:C:N3	2.65	0.45
1:AA:2661:G:N1	8:AH:175:LYS:HE3	2.28	0.45
1:AA:2689:U:H4'	1:AA:2690:C:O5'	2.17	0.45
1:AA:2748:A:N1	1:AA:2756:U:O2	2.49	0.45
1:AA:2756:U:O2'	1:AA:2757:A:H5''	2.16	0.45
1:AA:2811:G:N1	1:AA:2891:G:N3	2.64	0.45
1:AA:2817:G:C4	1:AA:2818:G:C8	3.04	0.45
1:AA:2834:G:C4	1:AA:2879:C:N4	2.85	0.45
1:AA:2884:U:H2'	1:AA:2885:C:C5'	2.46	0.45
2:AB:9:G:C2	2:AB:10:C:C5	3.04	0.45
2:AB:16:G:O2'	2:AB:17:C:O4'	2.24	0.45
2:AB:32:C:O2	2:AB:33:G:C8	2.69	0.45
2:AB:55:U:O2'	2:AB:56:G:C5'	2.57	0.45
2:AB:56:G:O2'	2:AB:57:A:H5'	2.15	0.45
3:AC:10:LEU:CD1	3:AC:32:LEU:O	2.64	0.45
3:AC:73:ARG:HB3	3:AC:93:TYR:CE2	2.52	0.45
4:AD:21:PHE:C	4:AD:205:VAL:HG13	2.41	0.45
4:AD:54:ARG:HA	4:AD:220:HIS:H	1.81	0.45
4:AD:181:GLU:CB	4:AD:268:ARG:NE	2.75	0.45
5:AE:8:LYS:HD3	5:AE:8:LYS:C	2.42	0.45
5:AE:8:LYS:HD3	5:AE:9:VAL:CB	2.47	0.45
5:AE:15:PHE:O	5:AE:16:ARG:O	2.34	0.45
5:AE:27:LEU:HD13	5:AE:76:ARG:HH22	1.81	0.45
5:AE:40:GLU:OE1	5:AE:40:GLU:CA	2.64	0.45
5:AE:133:LYS:HD2	5:AE:137:HIS:ND1	2.31	0.45
5:AE:171:GLU:CD	5:AE:173:VAL:H	2.24	0.45
5:AE:194:GLY:O	5:AE:195:LEU:HD22	2.17	0.45
8:AH:80:SER:OG	8:AH:81:GLU:OE2	2.33	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:88:LEU:C	8:AH:88:LEU:CD2	2.85	0.45
10:AJ:12:LEU:CD1	10:AJ:23:VAL:HG22	2.46	0.45
10:AJ:76:TYR:HE1	10:AJ:80:LYS:NZ	2.15	0.45
10:AJ:113:PRO:CG	10:AJ:114:ASP:H	2.29	0.45
11:AK:36:GLY:HA2	11:AK:47:ALA:C	2.41	0.45
11:AK:139:GLU:C	11:AK:139:GLU:CD	2.85	0.45
12:AL:35:VAL:CA	12:AL:61:VAL:CG1	2.92	0.45
12:AL:37:ASP:H	12:AL:61:VAL:CG2	2.29	0.45
12:AL:78:ARG:N	12:AL:78:ARG:NE	2.65	0.45
13:AM:96:THR:O	13:AM:102:ARG:CD	2.63	0.45
14:AN:59:ARG:HA	14:AN:60:ARG:NE	2.31	0.45
14:AN:85:LYS:HE2	14:AN:88:GLY:HA3	1.99	0.45
15:AO:71:GLN:O	15:AO:72:ASP:CB	2.65	0.45
15:AO:79:LEU:CG	15:AO:80:PHE:N	2.79	0.45
16:AP:14:VAL:O	16:AP:15:ARG:C	2.60	0.45
16:AP:49:VAL:HG21	16:AP:80:LEU:CG	2.47	0.45
18:AR:89:GLU:HB2	19:AS:51:VAL:HB	1.98	0.45
18:AR:98:LEU:HA	18:AR:101:ARG:CG	2.45	0.45
19:AS:40:LEU:N	19:AS:54:GLY:CA	2.79	0.45
20:AT:34:ASN:HD22	20:AT:34:ASN:H	1.64	0.45
21:AU:7:VAL:CG2	25:AY:31:ARG:NH2	2.79	0.45
21:AU:20:GLY:C	21:AU:25:LYS:O	2.60	0.45
23:AW:39:VAL:HG22	23:AW:44:PHE:CZ	2.48	0.45
23:AW:145:GLU:HB3	23:AW:146:ILE:H	1.31	0.45
24:AX:21:LEU:HD11	24:AX:40:GLN:C	2.41	0.45
25:AY:28:MET:O	25:AY:32:PHE:CD1	2.69	0.45
26:AZ:41:PRO:HA	26:AZ:44:ARG:CZ	2.47	0.45
27:Aa:6:HIS:CE1	27:Aa:55:ARG:CD	2.99	0.45
27:Aa:58:ARG:CG	27:Aa:62:ARG:NH2	2.79	0.45
27:Aa:65:ASP:OD2	27:Aa:69:LYS:CE	2.64	0.45
28:Ab:31:VAL:HB	28:Ab:32:PRO:HD2	1.99	0.45
34:BA:8:A:C5'	38:BI:120:THR:O	2.65	0.45
34:BA:19:C:N3	34:BA:20:U:H5	2.14	0.45
34:BA:21:G:C2	34:BA:915:A:N6	2.84	0.45
34:BA:61:G:C8	34:BA:62:U:C5	3.05	0.45
34:BA:67:C:O2'	34:BA:171:A:H1'	2.15	0.45
34:BA:110:C:C2'	34:BA:111:G:C5'	2.94	0.45
34:BA:242:C:C2'	34:BA:243:A:O5'	2.65	0.45
34:BA:266:G:C2'	34:BA:267:C:OP2	2.65	0.45
34:BA:321:A:H2'	34:BA:322:C:H6	1.81	0.45
34:BA:495:A:H4'	34:BA:496:A:OP1	2.15	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:564:C:C4	34:BA:565:U:C4	3.04	0.45
34:BA:682:G:C2	34:BA:683:G:C8	3.04	0.45
34:BA:689:C:H2'	34:BA:689:C:O2	2.16	0.45
34:BA:690:G:H2'	34:BA:691:G:O5'	2.17	0.45
34:BA:747:C:O5'	34:BA:747:C:H6	1.99	0.45
34:BA:935:A:C6	34:BA:936:C:N4	2.85	0.45
34:BA:956:U:C2	34:BA:960:U:O4	2.70	0.45
34:BA:1027:C:N3	34:BA:1028:C:C5	2.84	0.45
34:BA:1084:G:HO2'	34:BA:1085:U:P	2.39	0.45
34:BA:1109:C:OP1	36:BG:176:HIS:CE1	2.67	0.45
34:BA:1115:C:O2	34:BA:1186:G:C6	2.69	0.45
34:BA:1171:G:O2'	34:BA:1172:C:H6	1.99	0.45
34:BA:1176:A:C6	34:BA:1177:G:C6	3.04	0.45
34:BA:1213:A:N6	34:BA:1215:G:N2	2.65	0.45
34:BA:1220:G:H22	52:BW:55:LYS:HG3	1.82	0.45
34:BA:1224:G:C6	34:BA:1322:C:H4'	2.51	0.45
34:BA:1423:G:C2	34:BA:1424:C:C2	3.05	0.45
35:BF:87:ARG:HB3	35:BF:87:ARG:CZ	2.46	0.45
36:BG:40:ARG:NE	47:BR:52:GLN:NE2	2.64	0.45
36:BG:71:ALA:CA	36:BG:105:GLU:HG3	2.42	0.45
36:BG:138:VAL:HG13	36:BG:149:ALA:HB1	1.99	0.45
36:BG:155:GLY:O	36:BG:196:LEU:CB	2.64	0.45
37:BH:60:GLU:HA	37:BH:63:LYS:HZ3	1.80	0.45
37:BH:100:ARG:HG2	37:BH:100:ARG:HH11	1.81	0.45
37:BH:143:GLY:CA	37:BH:185:PHE:HB3	2.33	0.45
37:BH:149:ALA:O	37:BH:150:GLU:O	2.34	0.45
38:BI:35:GLY:N	38:BI:112:LEU:CD1	2.79	0.45
38:BI:36:ASP:OD1	38:BI:38:GLN:HB2	2.16	0.45
38:BI:74:GLY:O	38:BI:75:THR:CB	2.61	0.45
38:BI:78:HIS:HB3	41:BL:104:ARG:HD3	1.98	0.45
39:BJ:24:GLU:O	39:BJ:25:ILE:C	2.60	0.45
40:BK:50:ILE:HD13	40:BK:58:PRO:CB	2.46	0.45
40:BK:129:GLU:HB3	40:BK:131:LYS:HE2	1.97	0.45
41:BL:44:PHE:HA	41:BL:79:VAL:CG1	2.47	0.45
41:BL:79:VAL:HG12	41:BL:80:ILE:N	2.31	0.45
41:BL:88:LYS:O	41:BL:90:GLY:N	2.50	0.45
41:BL:103:VAL:O	41:BL:104:ARG:C	2.59	0.45
42:BM:4:TYR:CE1	42:BM:59:PHE:HE2	2.14	0.45
42:BM:47:LEU:CD1	42:BM:51:ARG:HH12	2.30	0.45
42:BM:50:LEU:HD21	42:BM:56:LEU:HB2	1.99	0.45
45:BP:53:ARG:NH1	45:BP:93:LEU:HD22	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:40:ASN:C	46:BQ:42:ALA:N	2.73	0.45
46:BQ:65:LYS:CG	46:BQ:69:GLU:CB	2.91	0.45
47:BR:34:TYR:CZ	47:BR:44:LEU:HD22	2.51	0.45
48:BS:65:ARG:CZ	48:BS:65:ARG:HB3	2.46	0.45
49:BT:29:ASP:O	49:BT:30:GLY:O	2.35	0.45
50:BU:43:LEU:HD22	50:BU:43:LEU:C	2.37	0.45
52:BW:32:LYS:HA	52:BW:50:ALA:CA	2.46	0.45
53:BX:76:ALA:C	53:BX:78:ALA:N	2.74	0.45
55:CA:128:ASN:ND2	57:CA:701:GCP:O6	2.50	0.45
55:CA:169:ASN:CA	55:CA:171:ILE:HD13	2.45	0.45
55:CA:180:ALA:N	55:CA:181:GLU:C	2.72	0.45
55:CA:208:GLN:HG3	55:CA:297:LEU:CD1	2.40	0.45
1:AA:35:G:C5	1:AA:454:A:H2	2.34	0.45
1:AA:67:U:C5'	1:AA:67:U:H6	2.30	0.45
1:AA:215:G:H4'	1:AA:216:A:C5'	2.41	0.45
1:AA:236:C:C4'	1:AA:431:U:H1'	2.46	0.45
1:AA:242:G:C2'	1:AA:254:G:N1	2.78	0.45
1:AA:281:G:H2'	1:AA:282:A:OP2	2.16	0.45
1:AA:297:C:H2'	1:AA:298:G:C8	2.52	0.45
1:AA:297:C:H3'	1:AA:298:G:N7	2.31	0.45
1:AA:324:A:C2	1:AA:325:G:C4	3.05	0.45
1:AA:445:C:H5''	18:AR:3:ARG:HG2	1.95	0.45
1:AA:449:A:OP2	6:AF:85:GLY:HA2	2.16	0.45
1:AA:457:A:H4'	1:AA:459:U:O2	2.17	0.45
1:AA:507:A:H4'	1:AA:509:C:C6	2.51	0.45
1:AA:557:U:H6	1:AA:557:U:O5'	2.00	0.45
1:AA:582:G:C6	1:AA:583:G:O6	2.69	0.45
1:AA:607:U:H5	1:AA:620:G:H21	1.64	0.45
1:AA:629:G:N2	1:AA:640:C:OP1	2.49	0.45
1:AA:668:G:C6	1:AA:670:A:C5	3.04	0.45
1:AA:814:C:O3'	1:AA:1224:G:N2	2.50	0.45
1:AA:817:C:H3'	1:AA:818:G:C8	2.51	0.45
1:AA:1120:G:C4	1:AA:1121:C:C5	3.05	0.45
1:AA:1165:U:C2	1:AA:1166:C:C5	3.05	0.45
1:AA:1263:U:C3'	28:Ab:10:LYS:HD3	2.46	0.45
1:AA:1300:U:H2'	1:AA:1626:G:C2	2.47	0.45
1:AA:1407:C:H6	1:AA:1407:C:OP2	1.97	0.45
1:AA:1419:A:O4'	1:AA:1419:A:P	2.75	0.45
1:AA:1488:G:H3'	1:AA:1489:U:H5'	1.94	0.45
1:AA:1556:C:O2'	1:AA:1557:C:H5'	2.16	0.45
1:AA:1631:A:C8	1:AA:1631:A:OP1	2.70	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1683:C:O5'	1:AA:1683:C:C6	2.68	0.45
1:AA:1794:U:O4'	1:AA:1900:A:C5	2.69	0.45
1:AA:2046:G:H2'	1:AA:2047:U:C6	2.51	0.45
1:AA:2150:U:C2	1:AA:2151:G:C8	3.05	0.45
1:AA:2150:U:N3	1:AA:2151:G:N7	2.64	0.45
1:AA:2174:C:O2'	3:AC:218:MET:HG3	2.17	0.45
1:AA:2210:G:C6	4:AD:70:TRP:CE2	3.05	0.45
1:AA:2284:C:O2'	1:AA:2325:G:C2	2.70	0.45
1:AA:2323:G:N2	1:AA:2324:C:N3	2.64	0.45
1:AA:2346:A:H5'	1:AA:2383:G:C4'	2.46	0.45
1:AA:2500:U:O2'	1:AA:2501:C:OP1	2.34	0.45
1:AA:2510:C:H5''	1:AA:2511:U:OP2	2.17	0.45
1:AA:2588:G:C6	1:AA:2607:G:O6	2.70	0.45
1:AA:2706:G:C2'	1:AA:2707:G:O5'	2.65	0.45
1:AA:2733:A:C2	5:AE:204:ALA:HB2	2.52	0.45
1:AA:2734:A:N6	1:AA:2735:G:N2	2.64	0.45
1:AA:2745:C:N4	1:AA:2746:U:O4	2.49	0.45
1:AA:2850:A:OP2	1:AA:2866:U:C5	2.68	0.45
2:AB:24:G:C2	2:AB:27:C:N4	2.77	0.45
2:AB:58:A:O5'	2:AB:58:A:C8	2.60	0.45
2:AB:99:A:C2	2:AB:100:G:N9	2.85	0.45
2:AB:99:A:H2'	2:AB:100:G:O5'	2.16	0.45
2:AB:100:G:C4	2:AB:101:A:C8	3.04	0.45
3:AC:8:ARG:NE	3:AC:12:GLU:OE2	2.49	0.45
3:AC:59:ARG:HH11	3:AC:59:ARG:HB2	1.81	0.45
3:AC:97:GLU:CG	3:AC:100:ILE:HD12	2.46	0.45
4:AD:252:TRP:CE3	4:AD:252:TRP:CA	2.98	0.45
4:AD:252:TRP:HE3	4:AD:252:TRP:HA	1.79	0.45
5:AE:13:ARG:CZ	5:AE:21:VAL:N	2.80	0.45
6:AF:205:ARG:O	6:AF:206:ILE:C	2.59	0.45
7:AG:96:ARG:NH1	7:AG:96:ARG:HB2	2.32	0.45
8:AH:17:VAL:HG21	8:AH:45:VAL:CG1	2.31	0.45
8:AH:42:ARG:HB2	8:AH:53:GLU:HG3	1.98	0.45
8:AH:119:GLU:H	8:AH:121:ILE:HG22	1.81	0.45
11:AK:46:VAL:HG11	11:AK:119:ARG:HH22	1.81	0.45
11:AK:99:LEU:O	11:AK:103:VAL:HG13	2.17	0.45
11:AK:128:HIS:O	11:AK:131:GLN:N	2.50	0.45
12:AL:9:GLU:CA	12:AL:17:ARG:O	2.57	0.45
12:AL:22:ILE:HD12	12:AL:40:VAL:HG11	1.99	0.45
12:AL:34:THR:O	12:AL:37:ASP:HB2	2.16	0.45
13:AM:85:LEU:O	13:AM:86:LYS:HE2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:137:LYS:CE	13:AM:137:LYS:CA	2.92	0.45
14:AN:12:GLN:O	14:AN:12:GLN:CD	2.59	0.45
15:AO:96:ARG:HG3	15:AO:98:LEU:HD11	1.96	0.45
16:AP:81:GLY:C	16:AP:82:ILE:HG12	2.41	0.45
17:AQ:38:ASN:O	17:AQ:39:ARG:HG2	2.17	0.45
17:AQ:72:VAL:HG12	17:AQ:73:GLU:N	2.31	0.45
18:AR:17:ILE:HD13	18:AR:20:LEU:HD11	1.99	0.45
18:AR:61:TRP:CD1	18:AR:61:TRP:N	2.85	0.45
18:AR:69:CYS:O	18:AR:72:HIS:HB2	2.17	0.45
19:AS:5:VAL:HG11	19:AS:37:VAL:CG2	2.45	0.45
19:AS:12:TYR:HE1	19:AS:14:VAL:CB	2.30	0.45
19:AS:68:LYS:HZ2	19:AS:95:LEU:CD1	2.30	0.45
21:AU:12:VAL:C	21:AU:14:SER:N	2.65	0.45
21:AU:21:PHE:HE1	21:AU:27:THR:HG1	1.61	0.45
21:AU:31:HIS:O	21:AU:32:PRO:C	2.59	0.45
21:AU:53:LYS:O	21:AU:81:VAL:HA	2.16	0.45
21:AU:84:ALA:H	21:AU:85:PRO:CD	2.29	0.45
23:AW:50:GLN:C	23:AW:52:SER:N	2.74	0.45
24:AX:23:VAL:CG2	24:AX:44:ARG:HH12	2.30	0.45
26:AZ:9:VAL:CG2	26:AZ:53:LEU:C	2.71	0.45
26:AZ:10:LYS:NZ	26:AZ:12:PRO:CD	2.79	0.45
27:Aa:41:PRO:CA	27:Aa:58:ARG:HD2	2.47	0.45
28:Ab:15:ARG:O	28:Ab:17:ASP:N	2.50	0.45
31:Ae:22:VAL:O	31:Ae:23:VAL:HG23	2.15	0.45
31:Ae:29:LYS:HE2	31:Ae:36:LYS:HZ3	1.82	0.45
34:BA:50:A:N1	34:BA:361:G:O4'	2.49	0.45
34:BA:62:U:H5''	34:BA:385:C:O2'	2.16	0.45
34:BA:151:A:C6	34:BA:152:A:C2	3.05	0.45
34:BA:169:C:C6	34:BA:170:U:H5	2.35	0.45
34:BA:186(D):C:C2	34:BA:186(E):C:C5	3.05	0.45
34:BA:225:C:C2'	34:BA:226:G:O5'	2.64	0.45
34:BA:251:G:O4'	34:BA:252:U:H5	2.00	0.45
34:BA:261:U:H5	53:BX:79:ARG:NH1	2.15	0.45
34:BA:323:U:O2	34:BA:329:A:N6	2.49	0.45
34:BA:363:A:N1	34:BA:364:A:C2	2.85	0.45
34:BA:379:C:C2'	34:BA:380:G:H5'	2.42	0.45
34:BA:528:C:O2'	34:BA:535:A:C8	2.69	0.45
34:BA:530:G:H5'	34:BA:531:U:H5''	1.99	0.45
34:BA:569:C:C1'	34:BA:574:A:C2	2.98	0.45
34:BA:594:G:C3'	34:BA:595:G:O4'	2.65	0.45
34:BA:679:C:H6	34:BA:679:C:O5'	2.00	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:706:A:H2'	34:BA:707:C:O5'	2.17	0.45
34:BA:722:A:H5'	34:BA:723:U:O4	2.16	0.45
34:BA:774:G:H3'	34:BA:775:G:H8	1.81	0.45
34:BA:828:A:C5'	34:BA:859:A:N1	2.80	0.45
34:BA:947:G:C4	34:BA:948:C:C6	3.04	0.45
34:BA:962:C:C4	34:BA:963:G:N7	2.85	0.45
34:BA:963:G:N1	34:BA:973:G:C6	2.85	0.45
34:BA:999:U:O5'	34:BA:999:U:H6	1.99	0.45
34:BA:1058:G:H21	43:BN:53:PRO:HG3	1.81	0.45
34:BA:1068:G:C8	34:BA:1094:G:C8	3.04	0.45
34:BA:1082:G:O2'	34:BA:1083:U:H5'	2.16	0.45
34:BA:1099:G:N7	34:BA:1100:C:C5	2.85	0.45
34:BA:1109:C:C5	34:BA:1110:A:N7	2.84	0.45
34:BA:1115:C:O4'	47:BR:61:TRP:HA	2.16	0.45
34:BA:1236:A:H5''	34:BA:1305:G:OP1	2.17	0.45
34:BA:1305:G:OP1	54:BY:2:GLY:N	2.50	0.45
34:BA:1316:G:H5''	47:BR:17:LYS:CD	2.46	0.45
34:BA:1349:A:O2'	34:BA:1350:A:H5'	2.17	0.45
34:BA:1476:G:C6	34:BA:1477:C:N4	2.85	0.45
34:BA:1523:G:C6	34:BA:1524:C:C4	3.04	0.45
35:BF:49:GLU:HA	35:BF:52:GLU:OE2	2.17	0.45
35:BF:140:HIS:HA	35:BF:143:GLU:HB3	1.99	0.45
36:BG:12:LEU:CD2	47:BR:57:ARG:CG	2.80	0.45
36:BG:15:THR:CB	36:BG:181:ASN:HA	2.45	0.45
36:BG:18:TRP:HZ2	47:BR:57:ARG:HB2	1.80	0.45
36:BG:73:PRO:HD3	36:BG:105:GLU:CD	2.41	0.45
37:BH:30:LYS:HA	37:BH:34:GLU:HB3	1.98	0.45
37:BH:55:ALA:C	37:BH:59:ARG:HG2	2.31	0.45
37:BH:187:ARG:CG	37:BH:188:LEU:N	2.79	0.45
38:BI:59:GLY:O	38:BI:62:ALA:N	2.49	0.45
38:BI:90:VAL:C	38:BI:120:THR:HG1	2.14	0.45
39:BJ:4:TYR:HD1	39:BJ:90:VAL:HG22	1.81	0.45
39:BJ:6:VAL:HG12	39:BJ:6:VAL:O	2.15	0.45
40:BK:21:VAL:HG23	40:BK:22:LEU:HD22	1.99	0.45
40:BK:37:ASN:OD1	40:BK:38:LEU:HD13	2.16	0.45
40:BK:149:ARG:O	40:BK:151:TYR:N	2.49	0.45
41:BL:48:TYR:CA	41:BL:61:VAL:HG22	2.47	0.45
41:BL:51:VAL:HG21	41:BL:60:ARG:HE	1.81	0.45
43:BN:89:ASP:O	43:BN:90:LEU:CG	2.63	0.45
44:BO:42:TRP:CZ3	44:BO:47:VAL:HG21	2.52	0.45
44:BO:48:ILE:HD11	44:BO:64:ALA:HA	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:110:ASP:HB2	51:BV:88:LYS:HB3	1.95	0.45
45:BP:60:LEU:CD2	45:BP:64:TYR:HB3	2.46	0.45
45:BP:117:ARG:NH1	45:BP:117:ARG:CG	2.74	0.45
48:BS:41:GLU:O	48:BS:44:LYS:HB2	2.15	0.45
51:BV:23:LYS:HD2	51:BV:57:GLY:O	2.15	0.45
52:BW:9:VAL:HG21	52:BW:42:PRO:C	2.41	0.45
53:BX:40:ALA:HB2	53:BX:55:ILE:HG22	1.95	0.45
53:BX:57:ARG:CZ	53:BX:100:ILE:HD12	2.47	0.45
55:CA:10:ILE:HA	55:CA:96:LEU:HB2	1.97	0.45
55:CA:310:PHE:HA	55:CA:385:PRO:HG3	1.97	0.45
55:CA:504:LEU:HD23	55:CA:535:VAL:HG21	1.96	0.45
1:AA:6:A:C5	1:AA:2898:U:C4	2.51	0.45
1:AA:76:C:C2'	1:AA:76:C:O2	2.64	0.45
1:AA:126:A:OP1	30:Ad:17:GLY:HA3	2.17	0.45
1:AA:194:G:C2	1:AA:195:A:C4	3.05	0.45
1:AA:223:A:C2	1:AA:407:G:N3	2.85	0.45
1:AA:244:A:C2	1:AA:255:A:C2	3.05	0.45
1:AA:270(A):A:N6	1:AA:270(Z):U:O5'	2.50	0.45
1:AA:270(Q):C:H2'	1:AA:270(R):G:C8	2.47	0.45
1:AA:301:G:H2'	1:AA:302:C:C5	2.49	0.45
1:AA:308:G:N1	1:AA:309:G:C4	2.85	0.45
1:AA:317:G:C2	1:AA:318:C:C6	3.05	0.45
1:AA:411:G:C2	1:AA:2407:G:C6	3.05	0.45
1:AA:565:C:O2'	1:AA:1253:A:C2	2.70	0.45
1:AA:660:G:H2'	1:AA:661:C:H6	1.76	0.45
1:AA:660:G:C6	1:AA:661:C:C4	3.05	0.45
1:AA:735:A:O5'	1:AA:735:A:C8	2.57	0.45
1:AA:905:U:C4	1:AA:906:G:C8	3.04	0.45
1:AA:1058:G:C2'	1:AA:1059:G:C5'	2.94	0.45
1:AA:1091:G:N1	1:AA:1101:U:O4	2.47	0.45
1:AA:1111:A:O2'	1:AA:1112:G:H1'	2.17	0.45
1:AA:1228:G:H5'	1:AA:1228:G:C8	2.51	0.45
1:AA:1332:G:C4	1:AA:1609:A:C6	3.05	0.45
1:AA:1427:A:H1'	1:AA:1428:C:C4	2.52	0.45
1:AA:1434:A:H61	1:AA:1558:A:N6	2.13	0.45
1:AA:1479:G:C2'	1:AA:1480:G:H8	2.19	0.45
1:AA:1483:G:C4	1:AA:1507:A:C2	3.04	0.45
1:AA:1664:A:C2'	1:AA:1665:A:C8	2.92	0.45
1:AA:1707:G:H2'	1:AA:1708:C:O4'	2.17	0.45
1:AA:1759:A:H8	1:AA:1759:A:O5'	1.99	0.45
1:AA:1790:C:O3'	4:AD:209:ALA:HB1	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1869:G:C4	1:AA:1878:G:O6	2.70	0.45
1:AA:1906:G:C4	1:AA:1907:G:N7	2.85	0.45
1:AA:1940:U:H5'	1:AA:1941:C:OP1	2.17	0.45
1:AA:2011:U:C3'	1:AA:2012:G:H8	2.30	0.45
1:AA:2046:G:P	28:Ab:18:ALA:HB1	2.56	0.45
1:AA:2129:C:OP2	3:AC:6:ARG:HG2	2.17	0.45
1:AA:2168:G:N2	1:AA:2170:A:C3'	2.79	0.45
1:AA:2171:A:O2'	1:AA:2172:U:O4'	2.34	0.45
1:AA:2226:C:N3	4:AD:262:ARG:NH2	2.64	0.45
1:AA:2307:G:O2'	1:AA:2311:A:N6	2.50	0.45
1:AA:2356:C:C2'	1:AA:2357:U:O5'	2.64	0.45
1:AA:2373:G:C2	1:AA:2374:C:N3	2.85	0.45
1:AA:2407:G:H3'	1:AA:2408:U:C5	2.51	0.45
1:AA:2457:U:H2'	1:AA:2458:G:C4'	2.46	0.45
1:AA:2690:C:O2'	1:AA:2691:C:H5'	2.16	0.45
1:AA:2692:C:C2'	1:AA:2847:U:O2'	2.64	0.45
1:AA:2766:G:N3	1:AA:2767:C:C6	2.84	0.45
1:AA:2820:A:OP1	15:AO:5:LYS:HG2	2.16	0.45
1:AA:2825:C:N3	1:AA:2826:A:C5	2.84	0.45
2:AB:6:C:C2'	2:AB:7:G:O5'	2.65	0.45
2:AB:43:C:C2	2:AB:45:A:C8	3.05	0.45
3:AC:22:ILE:HD11	3:AC:226:PRO:CA	2.42	0.45
3:AC:78:ALA:HA	3:AC:119:VAL:HG22	1.98	0.45
4:AD:27:THR:CG2	4:AD:29:PRO:HD2	2.36	0.45
4:AD:37:LEU:HA	4:AD:37:LEU:HD13	1.69	0.45
4:AD:57:GLY:O	4:AD:58:HIS:HB2	2.17	0.45
4:AD:134:ARG:CG	4:AD:187:GLY:C	2.87	0.45
4:AD:161:THR:N	4:AD:196:VAL:HG21	2.32	0.45
4:AD:184:LYS:H	4:AD:267:SER:HG	1.65	0.45
5:AE:52:LEU:HA	5:AE:74:PRO:CB	2.46	0.45
5:AE:97:LYS:HG3	5:AE:100:GLU:HG3	1.99	0.45
5:AE:117:MET:CG	5:AE:136:ARG:NE	2.67	0.45
5:AE:195:LEU:HD22	5:AE:195:LEU:HA	1.38	0.45
6:AF:176:LEU:CD1	6:AF:178:PRO:HD2	2.47	0.45
7:AG:139:LEU:CD1	7:AG:142:PRO:CB	2.94	0.45
7:AG:175:LEU:HD23	7:AG:175:LEU:HA	1.69	0.45
8:AH:27:LYS:HZ2	8:AH:32:GLU:HB2	1.80	0.45
8:AH:98:LEU:HD23	8:AH:98:LEU:C	2.42	0.45
8:AH:144:VAL:O	8:AH:145:ALA:C	2.60	0.45
8:AH:149:ARG:HH22	8:AH:164:TYR:HB3	1.81	0.45
10:AJ:15:GLY:HA2	10:AJ:45:THR:C	2.42	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:55:VAL:H	10:AJ:56:GLU:CB	2.28	0.45
11:AK:26:LEU:HD12	11:AK:26:LEU:C	2.40	0.45
12:AL:38:VAL:HG12	12:AL:59:LYS:O	2.17	0.45
12:AL:47:ILE:CD1	12:AL:49:ARG:O	2.64	0.45
14:AN:32:TYR:N	14:AN:32:TYR:CD1	2.85	0.45
15:AO:3:HIS:ND1	15:AO:3:HIS:C	2.74	0.45
16:AP:64:GLU:OE2	16:AP:67:ARG:CB	2.61	0.45
16:AP:92:TYR:CD2	16:AP:93:LYS:N	2.85	0.45
18:AR:27:LEU:HD11	28:Ab:12:SER:HB2	1.98	0.45
19:AS:33:VAL:HG12	19:AS:34:GLU:H	1.81	0.45
19:AS:48:GLY:C	19:AS:49:THR:OG1	2.60	0.45
20:AT:81:ALA:HB3	20:AT:97:LYS:HB2	1.98	0.45
22:AV:6:HIS:CG	22:AV:33:LYS:NZ	2.84	0.45
22:AV:86:ARG:HA	22:AV:91:GLU:HB3	1.98	0.45
23:AW:63:ASP:OD1	23:AW:65:GLN:N	2.50	0.45
25:AY:22:GLU:OE1	25:AY:22:GLU:CA	2.63	0.45
26:AZ:6:VAL:CB	26:AZ:35:ARG:HH11	2.29	0.45
27:Aa:66:SER:O	27:Aa:69:LYS:CB	2.56	0.45
30:Ad:10:ARG:O	30:Ad:14:LYS:HG3	2.15	0.45
30:Ad:20:ALA:HB3	30:Ad:21:ARG:HH21	1.76	0.45
31:Ae:8:LYS:HZ3	31:Ae:11:LYS:NZ	2.15	0.45
31:Ae:26:LYS:O	31:Ae:47:LYS:HE3	2.17	0.45
31:Ae:51:ALA:O	31:Ae:54:GLU:CD	2.60	0.45
31:Ae:52:LYS:HB2	31:Ae:52:LYS:NZ	2.31	0.45
34:BA:22:G:OP1	34:BA:561:U:O2	2.35	0.45
34:BA:24:U:C4	34:BA:25:C:C5	3.05	0.45
34:BA:92:G:N2	34:BA:93:U:H1'	2.31	0.45
34:BA:99:C:H2'	34:BA:101:A:C8	2.52	0.45
34:BA:104:G:H5'	34:BA:172:A:N1	2.32	0.45
34:BA:194:C:O3'	53:BX:65:LYS:NZ	2.50	0.45
34:BA:251:G:C4'	34:BA:252:U:OP1	2.65	0.45
34:BA:318:G:O2'	34:BA:319:G:H5'	2.17	0.45
34:BA:342:C:O2'	34:BA:343:U:H5'	2.16	0.45
34:BA:440:A:C8	34:BA:442:C:C5	3.04	0.45
34:BA:483:C:O5'	34:BA:483:C:C6	2.69	0.45
34:BA:577:G:N2	34:BA:578:C:C1'	2.79	0.45
34:BA:674:G:O2'	34:BA:675:A:H5'	2.16	0.45
34:BA:729:A:N6	48:BS:51:HIS:NE2	2.64	0.45
34:BA:739:C:H2'	34:BA:740:U:O5'	2.16	0.45
34:BA:750:G:O2'	48:BS:23:GLY:O	2.35	0.45
34:BA:942:G:C2	34:BA:943:U:C6	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:956:U:O2	34:BA:960:U:O4	2.34	0.45
34:BA:1076:C:C2	34:BA:1077:G:C8	3.04	0.45
34:BA:1148:U:H5'	42:BM:7:THR:OG1	2.17	0.45
34:BA:1220:G:O2'	34:BA:1221:G:H5'	2.16	0.45
34:BA:1250:A:C8	34:BA:1251:A:N7	2.85	0.45
34:BA:1252:A:C6	34:BA:1253:G:C5	3.05	0.45
34:BA:1270:C:O2'	34:BA:1314:C:P	2.74	0.45
34:BA:1392:G:C2'	34:BA:1393:U:O5'	2.65	0.45
34:BA:1399:C:C2	34:BA:1502:A:N6	2.85	0.45
35:BF:23:ARG:O	35:BF:24:TRP:CD1	2.70	0.45
35:BF:46:LYS:NZ	35:BF:49:GLU:HG2	2.31	0.45
35:BF:73:THR:HG22	35:BF:95:GLN:N	2.31	0.45
35:BF:77:ALA:CB	35:BF:211:ILE:HD13	2.44	0.45
36:BG:96:GLY:O	36:BG:98:ASN:N	2.49	0.45
37:BH:13:ARG:CA	37:BH:32:ALA:HB2	2.47	0.45
37:BH:26:CYS:CA	37:BH:31:CYS:HB3	2.40	0.45
38:BI:7:GLU:HG2	38:BI:112:LEU:CD2	2.41	0.45
38:BI:10:MET:O	38:BI:10:MET:SD	2.75	0.45
42:BM:71:SER:O	42:BM:74:ILE:N	2.50	0.45
45:BP:88:GLY:C	45:BP:89:ARG:O	2.59	0.45
46:BQ:63:THR:O	46:BQ:64:TRP:HB2	2.17	0.45
48:BS:29:VAL:O	48:BS:33:THR:OG1	2.25	0.45
48:BS:34:LEU:HD12	48:BS:38:ARG:NE	2.29	0.45
51:BV:22:VAL:CG2	51:BV:55:ARG:O	2.65	0.45
51:BV:52:PRO:O	51:BV:55:ARG:N	2.40	0.45
52:BW:3:ARG:O	52:BW:5:LEU:HB3	2.17	0.45
52:BW:51:VAL:HB	52:BW:75:ALA:CB	2.47	0.45
53:BX:33:ILE:CD1	53:BX:63:ILE:HA	2.24	0.45
53:BX:63:ILE:HG23	53:BX:72:LEU:CD1	2.47	0.45
54:BY:3:LYS:O	54:BY:14:TRP:HE3	1.98	0.45
55:CA:6:ARG:O	55:CA:72:ILE:HD11	2.16	0.45
55:CA:13:HIS:C	55:CA:15:ASP:N	2.73	0.45
55:CA:20:THR:O	55:CA:24:LYS:CG	2.64	0.45
55:CA:59:LYS:NZ	55:CA:59:LYS:CB	2.76	0.45
55:CA:240:ILE:CB	55:CA:286:ASP:CA	2.54	0.45
55:CA:382:VAL:CG1	55:CA:569:LEU:CD2	2.67	0.45
55:CA:490:SER:O	55:CA:534:THR:HG21	2.06	0.45
1:AA:35:G:N9	1:AA:454:A:N3	2.65	0.45
1:AA:48:G:C2	1:AA:178:G:C6	3.05	0.45
1:AA:85:G:P	22:AV:28:LYS:HE3	2.57	0.45
1:AA:147:U:C4	1:AA:148:C:N4	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:182:A:O2'	1:AA:183:C:C5'	2.64	0.45
1:AA:270(C):C:OP1	1:AA:365:C:O2	2.35	0.45
1:AA:270(V):G:C4	1:AA:270(W):G:N7	2.85	0.45
1:AA:271(C):U:O4	1:AA:421:U:N3	2.50	0.45
1:AA:308:G:N2	1:AA:309:G:O2'	2.50	0.45
1:AA:371:A:C8	1:AA:424:G:OP1	2.70	0.45
1:AA:479:A:O2'	1:AA:480:A:H5'	2.17	0.45
1:AA:480:A:H3'	1:AA:481:G:H5''	1.99	0.45
1:AA:499:U:H2'	1:AA:500:G:O4'	2.17	0.45
1:AA:533:G:C6	1:AA:534:U:C2	3.04	0.45
1:AA:539:G:O5'	1:AA:539:G:H8	2.00	0.45
1:AA:603:A:N6	1:AA:624:C:H41	2.06	0.45
1:AA:640:C:C2'	1:AA:641:C:H5'	2.37	0.45
1:AA:648:G:C2	1:AA:649:G:C8	3.04	0.45
1:AA:657:U:C2	1:AA:658:C:C5	3.04	0.45
1:AA:703:U:C5	1:AA:704:G:C5	3.05	0.45
1:AA:749:C:C5	1:AA:1618:A:N6	2.85	0.45
1:AA:803:U:H2'	1:AA:804:A:O4'	2.17	0.45
1:AA:848:G:H1'	1:AA:934:G:O4'	2.17	0.45
1:AA:915:C:O2'	1:AA:916:G:H5'	2.16	0.45
1:AA:974:G:H5'	1:AA:1187:G:O2'	2.17	0.45
1:AA:996:A:N3	1:AA:997:G:N7	2.64	0.45
1:AA:1022:G:C6	1:AA:1139:G:C6	3.05	0.45
1:AA:1048:A:C2	1:AA:1113:U:C4'	3.00	0.45
1:AA:1122:G:N2	1:AA:1123:C:N1	2.64	0.45
1:AA:1128:A:N3	1:AA:1128:A:C2'	2.78	0.45
1:AA:1137:G:O2'	11:AK:102:ALA:O	2.35	0.45
1:AA:1183:G:HO2'	1:AA:1184:G:P	2.39	0.45
1:AA:1184:G:P	26:AZ:30:ARG:HH21	2.39	0.45
1:AA:1212:G:C8	1:AA:1212:G:C3'	2.99	0.45
1:AA:1378:A:C2	1:AA:1380:G:C1'	3.00	0.45
1:AA:1449:A:C2	1:AA:1449(A):G:C4	3.05	0.45
1:AA:1449:A:O4'	1:AA:1529:A:C6	2.70	0.45
1:AA:1458:C:H4'	1:AA:1459:G:C4	2.52	0.45
1:AA:1477:A:H2	1:AA:1516:U:C2	2.35	0.45
1:AA:1532:C:H3'	1:AA:1532:C:P	2.57	0.45
1:AA:1670:C:H2'	1:AA:1671:U:C5'	2.46	0.45
1:AA:1680:U:O2'	1:AA:1763:G:C8	2.69	0.45
1:AA:1697:G:H3'	1:AA:1697:G:C8	2.52	0.45
1:AA:1741:C:O3'	1:AA:1742:C:O4'	2.33	0.45
1:AA:1778:U:H3'	1:AA:1779:U:C5	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1814:G:N2	1:AA:1815:A:N6	2.65	0.45
1:AA:1890:A:C3'	1:AA:1891:G:H8	2.25	0.45
1:AA:1912:A:N6	34:BA:1408:A:H1'	2.32	0.45
1:AA:1996:C:C2'	1:AA:1997:G:H4'	2.38	0.45
1:AA:2024:G:C6	1:AA:2025:C:C5	3.05	0.45
1:AA:2082:A:H2'	1:AA:2082:A:N3	2.31	0.45
1:AA:2227:A:H5''	4:AD:260:ARG:HB3	1.97	0.45
1:AA:2230:G:H1'	27:Aa:58:ARG:CZ	2.47	0.45
1:AA:2263:C:H2'	1:AA:2264:C:H5'	1.98	0.45
1:AA:2352:A:N1	24:AX:34:GLY:CA	2.80	0.45
1:AA:2355:C:C5	1:AA:2356:C:C5	3.05	0.45
1:AA:2472:G:C5'	55:CA:528:SER:O	2.56	0.45
1:AA:2484:G:O2'	1:AA:2485:G:H5'	2.17	0.45
1:AA:2527:C:OP1	32:Af:30:PRO:HB3	2.16	0.45
1:AA:2545:G:HO2'	1:AA:2565:A:N6	2.15	0.45
1:AA:2625:G:H2'	1:AA:2626:C:O5'	2.16	0.45
1:AA:2634:G:O2'	1:AA:2635:C:O5'	2.35	0.45
1:AA:2670:A:C5	1:AA:2671:A:N7	2.84	0.45
1:AA:2717:G:C4	1:AA:2718:G:C8	3.04	0.45
1:AA:2726:U:H4'	1:AA:2727:G:OP1	2.16	0.45
1:AA:2748:A:C2	8:AH:67:LEU:HD11	2.50	0.45
1:AA:2776:A:N7	1:AA:2781:A:N7	2.65	0.45
1:AA:2776:A:H5''	1:AA:2777:G:OP1	2.17	0.45
1:AA:2797:U:H4'	1:AA:2798:C:C1'	2.47	0.45
1:AA:2799:A:C1'	1:AA:2802:G:H1	2.30	0.45
1:AA:2887:U:O2'	1:AA:2888:C:H5'	2.17	0.45
2:AB:24:G:H21	2:AB:27:C:H42	1.63	0.45
2:AB:49:C:C2	2:AB:50:G:C8	3.05	0.45
3:AC:22:ILE:CG1	3:AC:189:ILE:HG21	2.46	0.45
4:AD:21:PHE:O	4:AD:205:VAL:CG2	2.56	0.45
4:AD:42:GLY:HA2	4:AD:60:ARG:NH2	2.26	0.45
4:AD:91:ARG:HH22	4:AD:198:ASN:CG	2.24	0.45
4:AD:132:PRO:HB2	4:AD:134:ARG:HD2	1.99	0.45
4:AD:146:GLU:OE2	4:AD:150:LYS:N	2.50	0.45
4:AD:148:GLU:C	4:AD:149:PRO:O	2.59	0.45
4:AD:246:PRO:HB2	4:AD:250:TRP:CD1	2.52	0.45
5:AE:101:ARG:HD2	5:AE:170:LEU:O	2.17	0.45
5:AE:103:ASP:HA	5:AE:170:LEU:CD2	2.47	0.45
5:AE:176:ILE:CG2	5:AE:181:LEU:CB	2.95	0.45
6:AF:131:GLY:O	6:AF:134:GLY:N	2.49	0.45
7:AG:9:ARG:CG	7:AG:13:GLU:OE2	2.62	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:19:LEU:HA	7:AG:22:ARG:CB	2.47	0.45
7:AG:55:LYS:HG3	7:AG:148:MET:CG	2.46	0.45
7:AG:94:LEU:HB3	7:AG:99:MET:HE3	1.96	0.45
7:AG:110:ALA:O	7:AG:111:LEU:C	2.60	0.45
8:AH:46:GLU:O	8:AH:47:GLU:HB2	2.17	0.45
8:AH:74:ASN:O	8:AH:76:VAL:N	2.50	0.45
8:AH:124:GLU:HB3	8:AH:132:ARG:NH2	2.32	0.45
8:AH:156:ALA:O	8:AH:157:TYR:CB	2.65	0.45
8:AH:168:PRO:O	8:AH:169:VAL:C	2.60	0.45
9:AI:73:GLY:C	9:AI:75:GLN:N	2.74	0.45
10:AJ:104:VAL:CA	10:AJ:127:ILE:CD1	2.91	0.45
10:AJ:116:ASN:O	10:AJ:118:THR:N	2.49	0.45
11:AK:7:LYS:HD2	11:AK:10:GLU:HB2	1.97	0.45
11:AK:53:VAL:HG22	11:AK:121:LYS:HB2	1.99	0.45
12:AL:59:LYS:CB	12:AL:85:VAL:HA	2.46	0.45
13:AM:74:GLU:HB2	13:AM:107:LYS:CD	2.47	0.45
14:AN:37:LEU:H	14:AN:39:PRO:HD3	1.82	0.45
14:AN:85:LYS:HD2	24:AX:10:THR:OG1	2.16	0.45
14:AN:136:ALA:CB	23:AW:76:LEU:HD13	2.46	0.45
15:AO:63:ARG:NH1	15:AO:63:ARG:HG2	2.32	0.45
15:AO:87:TYR:O	15:AO:88:ARG:C	2.60	0.45
16:AP:57:LYS:NZ	16:AP:62:LYS:CG	2.79	0.45
17:AQ:53:ARG:NH2	17:AQ:101:PHE:H	2.14	0.45
17:AQ:105:LEU:HG	17:AQ:106:SER:H	1.82	0.45
18:AR:24:TYR:O	18:AR:29:SER:HB3	2.17	0.45
18:AR:33:ARG:O	18:AR:36:ARG:HG3	2.16	0.45
18:AR:74:LEU:HB3	18:AR:78:THR:HB	1.99	0.45
19:AS:56:SER:O	19:AS:57:VAL:HG23	2.16	0.45
19:AS:83:ARG:CD	19:AS:84:LYS:N	2.80	0.45
20:AT:24:ILE:CD1	20:AT:36:LEU:HD13	2.44	0.45
20:AT:75:TYR:O	20:AT:104:THR:C	2.58	0.45
20:AT:78:GLU:OE2	20:AT:99:ARG:C	2.60	0.45
21:AU:12:VAL:N	21:AU:28:PHE:HA	2.32	0.45
23:AW:25:PRO:O	23:AW:85:HIS:HD2	2.00	0.45
24:AX:40:GLN:OE1	24:AX:44:ARG:N	2.50	0.45
24:AX:75:LEU:HB2	24:AX:78:TYR:CE1	2.52	0.45
25:AY:1:MET:H1	25:AY:2:ARG:HH22	1.63	0.45
26:AZ:40:THR:O	26:AZ:44:ARG:CG	2.64	0.45
26:AZ:41:PRO:HA	26:AZ:44:ARG:NE	2.32	0.45
26:AZ:42:ALA:O	26:AZ:43:ILE:C	2.59	0.45
27:Aa:31:ILE:O	27:Aa:31:ILE:HG12	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Aa:40:HIS:HB3	27:Aa:41:PRO:HD3	1.97	0.45
28:Ab:9:LYS:N	28:Ab:9:LYS:CD	2.69	0.45
29:Ac:10:LEU:HD12	29:Ac:28:ARG:HH21	1.82	0.45
30:Ad:11:LYS:CE	30:Ad:15:THR:HG21	2.47	0.45
31:Ae:31:HIS:O	31:Ae:32:LEU:CD2	2.65	0.45
33:Ag:290:UNK:CB	33:Ag:342:UNK:C	2.95	0.45
34:BA:131:C:C4	34:BA:232:G:N2	2.84	0.45
34:BA:133:U:C4'	34:BA:134:A:OP1	2.64	0.45
34:BA:319:G:H2'	34:BA:320:C:C5'	2.46	0.45
34:BA:407:G:C2	34:BA:436:C:O2	2.70	0.45
34:BA:509:A:C6	34:BA:510:A:N1	2.85	0.45
34:BA:533:A:H3'	34:BA:534:U:C5'	2.47	0.45
34:BA:666:G:N2	34:BA:741:G:H1'	2.30	0.45
34:BA:676:A:C4'	44:BO:114:VAL:O	2.65	0.45
34:BA:814:A:O2'	34:BA:815:A:H5'	2.16	0.45
34:BA:834:C:N4	34:BA:853:G:O6	2.49	0.45
34:BA:988:G:N1	34:BA:989:C:C2	2.85	0.45
34:BA:1018:C:H2'	34:BA:1019:C:O4'	2.16	0.45
34:BA:1114:C:C2	34:BA:1187:G:C2	3.05	0.45
34:BA:1126:U:OP1	34:BA:1126:U:O4'	2.35	0.45
34:BA:1180:A:O5'	34:BA:1180:A:H8	1.98	0.45
34:BA:1181:G:O3'	34:BA:1184:G:C5'	2.65	0.45
34:BA:1221:G:H1'	52:BW:55:LYS:HB2	1.98	0.45
34:BA:1263:C:H2'	34:BA:1264:C:C5	2.50	0.45
34:BA:1307:U:C4	34:BA:1308:U:C5	3.04	0.45
34:BA:1308:U:O5'	46:BQ:98:VAL:CB	2.60	0.45
34:BA:1311:G:O6	34:BA:1327:C:H5	1.86	0.45
34:BA:1401:G:O2'	34:BA:1402:C:H5'	2.17	0.45
34:BA:1434:A:N7	34:BA:1435:G:C5	2.85	0.45
34:BA:1448:C:O2	34:BA:1459:C:O2	2.34	0.45
34:BA:1477:C:H2'	34:BA:1478:C:O4'	2.17	0.45
34:BA:1485:U:O2'	34:BA:1486:G:H5'	2.16	0.45
34:BA:1508:G:O2'	34:BA:1509:C:C5'	2.63	0.45
35:BF:97:TRP:HZ2	35:BF:102:LEU:HD11	1.80	0.45
35:BF:122:PHE:O	35:BF:123:ALA:C	2.59	0.45
35:BF:163:PHE:HE1	35:BF:201:ILE:CD1	2.30	0.45
35:BF:185:ILE:O	35:BF:185:ILE:HG12	2.17	0.45
36:BG:122:GLU:HA	36:BG:125:GLU:OE2	2.17	0.45
36:BG:126:ARG:C	36:BG:127:ARG:HG3	2.42	0.45
37:BH:126:ILE:O	37:BH:132:ARG:HB3	2.17	0.45
37:BH:130:GLY:HA3	37:BH:131:ARG:NH1	2.31	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:176:LEU:H	37:BH:176:LEU:HD23	1.82	0.45
38:BI:110:LEU:HD23	38:BI:110:LEU:N	2.32	0.45
39:BJ:2:ARG:O	39:BJ:67:MET:HE1	2.17	0.45
39:BJ:50:TYR:CE1	51:BV:81:PHE:CZ	3.04	0.45
40:BK:47:CYS:O	40:BK:50:ILE:HB	2.17	0.45
40:BK:147:ALA:C	40:BK:149:ARG:N	2.74	0.45
41:BL:65:TYR:HE2	41:BL:78:GLN:CD	2.24	0.45
41:BL:118:VAL:C	41:BL:119:LEU:HD22	2.40	0.45
43:BN:55:LYS:O	43:BN:55:LYS:CG	2.65	0.45
44:BO:84:VAL:CG2	51:BV:88:LYS:NZ	2.80	0.45
44:BO:86:GLY:H	44:BO:112:THR:HG23	1.82	0.45
46:BQ:8:GLU:HB3	46:BQ:22:ILE:CG1	2.41	0.45
46:BQ:15:VAL:HB	46:BQ:34:LEU:HD23	0.45	0.45
49:BT:1:MET:HB2	49:BT:3:LYS:HZ1	1.81	0.45
50:BU:12:SER:H	50:BU:20:THR:HG1	1.63	0.45
52:BW:68:GLY:C	52:BW:69:HIS:CG	2.95	0.45
53:BX:23:ARG:CD	53:BX:24:LEU:N	2.78	0.45
55:CA:10:ILE:HG12	55:CA:96:LEU:CD1	2.47	0.45
55:CA:12:ALA:HB3	55:CA:76:PRO:HA	1.97	0.45
55:CA:115:LYS:HA	55:CA:115:LYS:HD3	1.67	0.45
55:CA:166:SER:H	55:CA:171:ILE:CG2	2.29	0.45
55:CA:234:ASN:OD1	55:CA:247:ARG:HB2	2.16	0.45
55:CA:390:ARG:CG	55:CA:391:GLU:CB	2.95	0.45
1:AA:82:G:N2	1:AA:103:A:OP2	2.47	0.45
1:AA:110:G:H2'	1:AA:110:G:N3	2.32	0.45
1:AA:182:A:H1'	1:AA:433:C:O2'	2.17	0.45
1:AA:211:A:O2'	1:AA:212:G:H5'	2.17	0.45
1:AA:215:G:O2'	1:AA:216:A:OP2	2.30	0.45
1:AA:253:C:O2	1:AA:254:G:O4'	2.35	0.45
1:AA:270(M):U:O3'	1:AA:270(N):G:H4'	2.16	0.45
1:AA:325:G:H3'	1:AA:325:G:C8	2.52	0.45
1:AA:465:G:H21	1:AA:683:C:C2'	2.27	0.45
1:AA:493:G:O2'	1:AA:494:G:H5'	2.17	0.45
1:AA:519:U:C4'	20:AT:75:TYR:HB2	2.47	0.45
1:AA:542:C:C4	1:AA:552:G:N1	2.85	0.45
1:AA:566:U:H5''	19:AS:82:ARG:NH2	2.26	0.45
1:AA:590:A:C6	1:AA:591:C:C4	3.05	0.45
1:AA:610:C:H2'	1:AA:611:C:H6	1.80	0.45
1:AA:621:A:C8	1:AA:622:G:C5'	2.99	0.45
1:AA:624:C:C6	1:AA:624:C:C4'	3.00	0.45
1:AA:637:A:OP1	13:AM:133:SER:HB3	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:735:A:C8	1:AA:735:A:H3'	2.52	0.45
1:AA:836:G:C5	1:AA:837:C:C5	3.05	0.45
1:AA:840:C:H6	1:AA:840:C:O5'	1.99	0.45
1:AA:955:C:N4	1:AA:956:G:C2	2.85	0.45
1:AA:969:U:C2'	1:AA:970:C:C5'	2.94	0.45
1:AA:974:G:C2'	1:AA:1186:G:C4	3.00	0.45
1:AA:994:C:H5''	1:AA:995:C:OP1	2.17	0.45
1:AA:1000:A:C6	1:AA:1001:A:C2	3.05	0.45
1:AA:1023:U:O2	1:AA:1024:G:H4'	2.17	0.45
1:AA:1046:A:H61	9:AI:9:LEU:CB	2.29	0.45
1:AA:1081:U:C5	1:AA:1086:A:H2	2.34	0.45
1:AA:1203:G:N7	1:AA:1240:U:C4	2.85	0.45
1:AA:1292:U:H2'	1:AA:1293:C:H6	1.82	0.45
1:AA:1314:C:C2	1:AA:1339:G:C2	3.05	0.45
1:AA:1334:G:H2'	1:AA:1335:U:H6	1.82	0.45
1:AA:1429:G:H1'	1:AA:1568:G:C2	2.51	0.45
1:AA:1464:C:C2	1:AA:1465:G:C8	3.05	0.45
1:AA:1518:C:C4	1:AA:1519:G:C8	3.05	0.45
1:AA:1630:G:C8	1:AA:1630(A):C:H5	2.35	0.45
1:AA:1635:G:H8	1:AA:1635:G:C5'	2.30	0.45
1:AA:1661:G:C5	1:AA:1662:C:C5	3.05	0.45
1:AA:1689:A:C5	1:AA:1700:A:C6	3.04	0.45
1:AA:1746:G:OP2	1:AA:1746:G:C3'	2.60	0.45
1:AA:1791:A:H2'	1:AA:1792:G:O4'	2.16	0.45
1:AA:1992:G:C4'	1:AA:1993:U:C5	2.99	0.45
1:AA:2023:G:C4	1:AA:2024:G:N7	2.85	0.45
1:AA:2040:C:N4	1:AA:2041:U:O4	2.50	0.45
1:AA:2101:G:O2'	1:AA:2102:U:H5'	2.16	0.45
1:AA:2121:G:O2'	3:AC:167:LYS:HG2	2.17	0.45
1:AA:2208:U:C2	1:AA:2217:G:C6	3.05	0.45
1:AA:2225:A:C4'	1:AA:2226:C:H6	2.29	0.45
1:AA:2244:U:H2'	1:AA:2244:U:O2	2.16	0.45
1:AA:2249:U:O4	1:AA:2253:G:OP2	2.35	0.45
1:AA:2346:A:O2'	1:AA:2347:C:OP2	2.33	0.45
1:AA:2491:U:O2	1:AA:2492:U:C4	2.70	0.45
1:AA:2500:U:C5'	1:AA:2500:U:H6	2.29	0.45
1:AA:2507:C:C1'	1:AA:2583:G:N2	2.80	0.45
1:AA:2624:G:C3'	1:AA:2625:G:H5''	2.47	0.45
1:AA:2626:C:C6	1:AA:2626:C:H3'	2.52	0.45
1:AA:2805:G:H5'	1:AA:2807:G:OP2	2.16	0.45
2:AB:46:A:H2'	2:AB:47:C:O4'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:114:VAL:HG23	3:AC:114:VAL:O	2.17	0.45
3:AC:148:ASN:HB2	3:AC:151:GLU:CD	2.41	0.45
3:AC:182:PRO:HG2	3:AC:183:GLU:OE1	2.17	0.45
4:AD:57:GLY:N	4:AD:217:ARG:CD	2.73	0.45
4:AD:58:HIS:O	4:AD:59:LYS:HE2	2.17	0.45
4:AD:61:LEU:O	4:AD:62:TYR:HB2	2.16	0.45
4:AD:85:ASP:OD2	4:AD:88:ARG:NE	2.37	0.45
5:AE:36:ARG:HD2	5:AE:41:LYS:HZ1	1.78	0.45
5:AE:97:LYS:O	5:AE:100:GLU:OE1	2.35	0.45
6:AF:109:GLY:O	6:AF:112:MET:N	2.50	0.45
7:AG:91:ARG:NH1	7:AG:91:ARG:CG	2.78	0.45
8:AH:75:ALA:O	8:AH:79:VAL:HG13	2.17	0.45
8:AH:85:LYS:N	8:AH:133:VAL:O	2.49	0.45
8:AH:97:ARG:NH1	8:AH:97:ARG:CB	2.79	0.45
8:AH:140:LYS:O	8:AH:143:GLN:HB2	2.17	0.45
9:AI:152:VAL:CB	33:Ag:19:UNK:CB	2.94	0.45
10:AJ:72:PRO:O	10:AJ:77:LEU:HB2	2.17	0.45
10:AJ:106:GLU:C	10:AJ:109:LYS:HG3	2.42	0.45
11:AK:72:TYR:HD1	11:AK:72:TYR:O	1.99	0.45
11:AK:88:GLU:OE1	11:AK:88:GLU:N	2.43	0.45
11:AK:91:LEU:HA	11:AK:95:PRO:N	2.32	0.45
12:AL:9:GLU:C	12:AL:82:ASN:HB3	2.42	0.45
12:AL:72:PRO:HG3	12:AL:107:ARG:HH22	1.81	0.45
12:AL:113:LYS:O	12:AL:114:ILE:C	2.57	0.45
13:AM:18:ARG:C	13:AM:20:GLY:N	2.74	0.45
13:AM:81:GLN:C	13:AM:86:LYS:HG2	2.42	0.45
13:AM:130:PHE:O	13:AM:131:SER:C	2.59	0.45
14:AN:36:ALA:HB3	14:AN:101:ARG:H	1.82	0.45
14:AN:61:GLY:C	23:AW:177:PRO:O	2.60	0.45
14:AN:64:ILE:HA	14:AN:106:VAL:C	2.42	0.45
15:AO:87:TYR:N	15:AO:87:TYR:HD1	2.15	0.45
15:AO:105:ARG:CA	15:AO:105:ARG:NE	2.79	0.45
16:AP:20:ARG:NH1	16:AP:20:ARG:CB	2.58	0.45
16:AP:28:VAL:HA	16:AP:37:ALA:CB	2.46	0.45
17:AQ:40:THR:O	17:AQ:42:ILE:N	2.50	0.45
17:AQ:54:ARG:O	17:AQ:55:ASN:OD1	2.34	0.45
17:AQ:108:ARG:O	17:AQ:110:ILE:HG13	2.16	0.45
18:AR:86:ALA:HB3	18:AR:90:VAL:HG22	1.99	0.45
20:AT:12:ILE:HD13	20:AT:12:ILE:H	1.81	0.45
20:AT:70:TYR:CE1	20:AT:72:LYS:HB2	2.51	0.45
20:AT:79:GLY:HA3	20:AT:102:HIS:CE1	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:15:GLU:O	21:AU:16:LYS:C	2.60	0.45
22:AV:49:VAL:CB	22:AV:51:VAL:H	2.29	0.45
23:AW:51:ALA:O	23:AW:53:ILE:C	2.60	0.45
23:AW:66:SER:O	23:AW:67:LEU:HD23	2.17	0.45
23:AW:138:GLU:O	23:AW:139:VAL:HG22	2.16	0.45
24:AX:21:LEU:HD12	24:AX:39:ARG:CB	2.39	0.45
25:AY:6:GLU:CA	25:AY:6:GLU:OE1	2.65	0.45
26:AZ:5:LYS:HD2	26:AZ:5:LYS:C	2.42	0.45
27:Aa:5:ILE:HD12	27:Aa:8:LYS:O	2.16	0.45
29:Ac:27:LYS:CE	29:Ac:29:ASN:HD21	2.29	0.45
29:Ac:46:HIS:O	29:Ac:47:THR:OG1	2.35	0.45
33:Ag:336:UNK:HA	33:Ag:345:UNK:CB	2.47	0.45
34:BA:20:U:C2'	34:BA:20:U:O2	2.65	0.45
34:BA:110:C:H2'	34:BA:111:G:H8	1.82	0.45
34:BA:141:A:O4'	34:BA:182:U:H1'	2.17	0.45
34:BA:179:A:H2'	34:BA:179:A:N3	2.32	0.45
34:BA:184:G:H4'	34:BA:224:C:O3'	2.16	0.45
34:BA:194:C:O3'	53:BX:68:LYS:NZ	2.50	0.45
34:BA:251:G:H4'	34:BA:252:U:OP1	2.17	0.45
34:BA:301:G:C2	34:BA:302:G:N9	2.85	0.45
34:BA:393:A:C5	34:BA:394:G:N7	2.85	0.45
34:BA:420:U:H1'	34:BA:424:G:N2	2.32	0.45
34:BA:529:G:O6	45:BP:49:ASN:CG	2.60	0.45
34:BA:637:G:C6	34:BA:638:G:N7	2.85	0.45
34:BA:664:G:N3	34:BA:726:C:H4'	2.32	0.45
34:BA:686:U:O2'	34:BA:687:A:P	2.73	0.45
34:BA:687:A:H2'	34:BA:701:C:N4	2.30	0.45
34:BA:737:A:O2'	34:BA:738:C:C5'	2.65	0.45
34:BA:791:G:C5	34:BA:792:A:N7	2.85	0.45
34:BA:828:A:C8	34:BA:829:G:N9	2.85	0.45
34:BA:829:G:N2	34:BA:858:G:O2'	2.49	0.45
34:BA:885:G:N2	34:BA:913:A:C2	2.85	0.45
34:BA:901:A:HO2'	34:BA:902:G:P	2.40	0.45
34:BA:917:G:H2'	34:BA:918:A:H8	1.81	0.45
34:BA:954:G:H2'	34:BA:955:U:H6	1.80	0.45
34:BA:995:C:O2	47:BR:4:LYS:CE	2.65	0.45
34:BA:1000:A:N6	34:BA:1001:G:O6	2.50	0.45
34:BA:1164:G:C5	34:BA:1173:G:C2	3.05	0.45
34:BA:1221:G:H1'	52:BW:55:LYS:CB	2.47	0.45
34:BA:1309:G:H4'	46:BQ:74:VAL:HG13	1.98	0.45
34:BA:1312:G:N2	34:BA:1326:C:O4'	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1386:G:N1	34:BA:1387:G:C5	2.85	0.45
34:BA:1389:C:H2'	34:BA:1390:U:C4'	2.47	0.45
34:BA:1416:G:N1	34:BA:1485:U:O2	2.50	0.45
34:BA:1447:G:N2	34:BA:1459:C:C2	2.65	0.45
35:BF:52:GLU:CD	35:BF:53:ARG:N	2.74	0.45
35:BF:189:ASP:CB	35:BF:205:ASP:CG	2.90	0.45
37:BH:11:LEU:O	37:BH:12:CYS:C	2.59	0.45
37:BH:177:ASP:C	37:BH:179:GLU:N	2.74	0.45
39:BJ:14:LEU:O	39:BJ:15:ASP:HB3	2.17	0.45
39:BJ:41:GLU:CB	39:BJ:62:TRP:HE3	2.26	0.45
39:BJ:74:ASP:O	39:BJ:75:LEU:C	2.60	0.45
40:BK:69:VAL:HG13	40:BK:135:VAL:CA	2.47	0.45
41:BL:111:ILE:HD12	41:BL:111:ILE:H	1.76	0.45
41:BL:137:VAL:CG1	41:BL:138:TRP:N	2.79	0.45
42:BM:43:ALA:C	42:BM:45:ALA:H	2.25	0.45
43:BN:4:ILE:HD13	43:BN:98:ILE:CG2	2.47	0.45
44:BO:32:ILE:O	44:BO:40:ILE:HD13	2.17	0.45
45:BP:24:VAL:CG1	45:BP:98:TYR:CE2	3.00	0.45
45:BP:34:ARG:O	45:BP:60:LEU:HB2	2.17	0.45
46:BQ:65:LYS:HG2	46:BQ:65:LYS:O	2.17	0.45
47:BR:13:THR:HG22	47:BR:13:THR:O	2.17	0.45
48:BS:21:ASP:C	48:BS:23:GLY:H	2.25	0.45
48:BS:35:ARG:NH2	48:BS:59:MET:HE2	2.30	0.45
48:BS:60:VAL:HA	48:BS:63:ARG:CG	2.47	0.45
50:BU:100:LYS:C	50:BU:101:ARG:HD2	2.42	0.45
51:BV:51:LEU:HD13	51:BV:51:LEU:H	1.82	0.45
52:BW:25:LYS:HD2	52:BW:25:LYS:O	2.17	0.45
53:BX:38:LYS:HA	53:BX:41:ILE:HD12	1.98	0.45
55:CA:57:LEU:HD12	55:CA:255:LEU:CA	2.44	0.45
55:CA:163:VAL:CG1	55:CA:164:TYR:N	2.79	0.45
1:AA:6:A:C2	1:AA:2897:U:C1'	2.99	0.45
1:AA:162:U:O5'	1:AA:162:U:C6	2.70	0.45
1:AA:215:G:O2'	1:AA:216:A:H5''	2.15	0.45
1:AA:270(C):C:P	1:AA:365:C:O2'	2.75	0.45
1:AA:427:U:O2'	1:AA:428:A:O4'	2.35	0.45
1:AA:533:G:H5'	18:AR:24:TYR:CD2	2.51	0.45
1:AA:546:C:H2'	1:AA:547:A:C4	2.51	0.45
1:AA:579:G:O2'	1:AA:2019:A:OP1	2.34	0.45
1:AA:588:U:H1'	6:AF:90:PHE:CG	2.51	0.45
1:AA:597:U:H2'	1:AA:598:G:C8	2.51	0.45
1:AA:603:A:N6	1:AA:625:G:C8	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:687:C:H2'	1:AA:688:U:C6	2.52	0.45
1:AA:762:U:H1'	1:AA:763:G:C4	2.51	0.45
1:AA:813:U:H2'	1:AA:814:C:H6	1.82	0.45
1:AA:826:U:N3	1:AA:828:U:H6	2.15	0.45
1:AA:830:G:O6	1:AA:2446:G:H1'	2.17	0.45
1:AA:853:G:C2'	1:AA:854:G:H8	2.12	0.45
1:AA:998:C:O5'	1:AA:998:C:H6	2.00	0.45
1:AA:1011:G:OP2	18:AR:75:ASN:OD1	2.35	0.45
1:AA:1020:A:H2	1:AA:1140:C:C2'	2.30	0.45
1:AA:1129:A:N7	1:AA:2570:G:O2'	2.30	0.45
1:AA:1188:U:O2	1:AA:1188:U:C2'	2.52	0.45
1:AA:1190:G:O2'	1:AA:1191:G:H5'	2.17	0.45
1:AA:1198:U:C2	1:AA:1199:U:C5	3.05	0.45
1:AA:1255:U:O2	1:AA:1255:U:H2'	2.17	0.45
1:AA:1284:A:C2	1:AA:1285:G:C2	3.05	0.45
1:AA:1312:U:H2'	1:AA:1313:U:C4'	2.41	0.45
1:AA:1341:U:H3	1:AA:1398:C:C5'	2.16	0.45
1:AA:1388:G:C4	1:AA:1389:G:C8	3.05	0.45
1:AA:1429:G:H2'	1:AA:1430:C:C6	2.52	0.45
1:AA:1534:G:O2'	1:AA:1536:A:N6	2.50	0.45
1:AA:1641:A:N6	1:AA:1642:G:N3	2.65	0.45
1:AA:1686:C:H2'	1:AA:1686:C:O2	2.15	0.45
1:AA:1777:U:H6	1:AA:1777:U:O5'	2.00	0.45
1:AA:1870:C:O2	1:AA:1870:C:C2'	2.62	0.45
1:AA:1992:G:O2'	1:AA:1993:U:H5	2.00	0.45
1:AA:2027:G:N2	1:AA:2028:U:H1'	2.32	0.45
1:AA:2198:A:H2	1:AA:2225:A:H62	1.64	0.45
1:AA:2306:C:N4	7:AG:43:LEU:HB3	2.32	0.45
1:AA:2363:C:O2'	1:AA:2364:C:H5'	2.16	0.45
1:AA:2427:C:H3'	1:AA:2427:C:H6	1.82	0.45
1:AA:2444:G:C2	1:AA:2445:G:C5	3.05	0.45
1:AA:2450:A:H2	1:AA:2451:A:H1'	1.82	0.45
1:AA:2464:C:C2	1:AA:2465:C:C6	3.05	0.45
1:AA:2593:U:OP2	1:AA:2593:U:C6	2.63	0.45
1:AA:2630:G:H21	1:AA:2892:A:H1'	1.81	0.45
1:AA:2695:C:O2'	1:AA:2696:U:H6	2.00	0.45
1:AA:2734:A:C2	5:AE:203:LYS:HD2	2.52	0.45
1:AA:2771:C:H2'	1:AA:2772:C:H6	1.75	0.45
1:AA:2783:G:C6	1:AA:2784:C:C4	3.05	0.45
1:AA:2825:C:C2	1:AA:2826:A:C8	3.05	0.45
1:AA:2839:G:H2'	1:AA:2840:C:O4'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2848:G:N2	1:AA:2849:U:C2	2.85	0.45
1:AA:2877:G:C3'	1:AA:2878:U:C6	2.94	0.45
2:AB:74:U:C3'	2:AB:75:G:O4'	2.65	0.45
2:AB:77:U:H3'	2:AB:77:U:C6	2.47	0.45
3:AC:38:ASP:O	3:AC:39:GLU:C	2.60	0.45
3:AC:74:VAL:HG13	3:AC:112:ALA:O	2.17	0.45
3:AC:160:ARG:C	3:AC:161:ILE:HG23	2.42	0.45
4:AD:49:ILE:HD12	4:AD:49:ILE:N	2.32	0.45
4:AD:141:VAL:O	4:AD:194:GLY:N	2.47	0.45
4:AD:208:LYS:NZ	4:AD:211:ARG:CZ	2.80	0.45
5:AE:44:TYR:C	5:AE:44:TYR:CD1	2.94	0.45
5:AE:55:ASN:CG	5:AE:73:GLU:CD	2.85	0.45
5:AE:99:GLY:N	5:AE:172:VAL:CG2	2.80	0.45
6:AF:41:LEU:C	6:AF:44:ARG:CZ	2.90	0.45
7:AG:27:ASN:HB3	7:AG:29:TRP:CZ2	2.52	0.45
7:AG:135:LEU:CD2	7:AG:137:GLU:N	2.80	0.45
7:AG:157:ILE:CG1	7:AG:158:ALA:N	2.79	0.45
8:AH:10:PRO:O	8:AH:12:PRO:HD2	2.17	0.45
8:AH:85:LYS:NZ	8:AH:141:VAL:C	2.75	0.45
8:AH:136:ILE:CG2	8:AH:137:ASP:H	2.19	0.45
10:AJ:19:PRO:HD3	10:AJ:38:VAL:N	2.20	0.45
10:AJ:19:PRO:HB3	10:AJ:23:VAL:HB	1.99	0.45
10:AJ:76:TYR:CD1	10:AJ:80:LYS:CD	2.96	0.45
11:AK:62:VAL:C	11:AK:64:GLY:N	2.73	0.45
12:AL:37:ASP:C	12:AL:61:VAL:HG23	2.41	0.45
12:AL:40:VAL:O	12:AL:40:VAL:HG13	2.17	0.45
12:AL:119:PRO:HG3	34:BA:347:G:N7	2.31	0.45
13:AM:18:ARG:O	13:AM:20:GLY:N	2.42	0.45
13:AM:97:PRO:CA	13:AM:102:ARG:NE	2.75	0.45
13:AM:123:LEU:H	13:AM:138:LEU:HB2	1.82	0.45
14:AN:25:ASP:OD1	14:AN:101:ARG:NH1	2.50	0.45
14:AN:59:ARG:NH2	23:AW:177:PRO:CB	2.78	0.45
14:AN:75:THR:HG21	14:AN:89:ASN:O	2.17	0.45
14:AN:99:PRO:CD	14:AN:101:ARG:NE	2.78	0.45
14:AN:134:ARG:HH21	14:AN:137:TYR:N	2.14	0.45
14:AN:137:TYR:HE2	23:AW:124:ILE:CD1	2.22	0.45
15:AO:5:LYS:CA	15:AO:5:LYS:CE	2.92	0.45
15:AO:10:LEU:HD22	15:AO:43:GLU:HG2	1.99	0.45
15:AO:22:ARG:CD	15:AO:69:ASP:O	2.65	0.45
16:AP:58:LEU:O	16:AP:60:GLY:N	2.50	0.45
17:AQ:11:GLU:C	17:AQ:13:ARG:N	2.71	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:93:ARG:CG	17:AQ:95:ARG:NH2	2.80	0.45
18:AR:95:LEU:HD23	18:AR:95:LEU:H	1.82	0.45
18:AR:97:ASP:HB3	18:AR:101:ARG:HE	1.82	0.45
19:AS:48:GLY:O	19:AS:49:THR:HG23	2.17	0.45
20:AT:34:ASN:ND2	20:AT:34:ASN:H	2.15	0.45
20:AT:72:LYS:HB3	20:AT:108:GLY:CA	2.46	0.45
21:AU:3:THR:N	21:AU:5:TYR:CE2	2.85	0.45
21:AU:6:ASP:CG	21:AU:7:VAL:N	2.75	0.45
21:AU:84:ALA:N	21:AU:85:PRO:HD2	2.32	0.45
22:AV:86:ARG:CA	22:AV:91:GLU:HB3	2.47	0.45
27:Aa:7:PRO:HG2	27:Aa:60:GLN:HB2	1.98	0.45
30:Ad:18:PHE:O	30:Ad:19:ARG:C	2.59	0.45
34:BA:20:U:O4'	34:BA:572:A:C6	2.70	0.45
34:BA:39:G:N7	34:BA:547:A:C8	2.85	0.45
34:BA:47:C:C5	34:BA:365:U:O2	2.70	0.45
34:BA:50:A:N3	34:BA:360:A:N3	2.65	0.45
34:BA:81:G:O6	34:BA:82:U:O4	2.35	0.45
34:BA:186(A):C:C4'	53:BX:85:MET:HG3	2.47	0.45
34:BA:194:C:O2'	53:BX:68:LYS:NZ	2.38	0.45
34:BA:352:C:H6	34:BA:352:C:P	2.40	0.45
34:BA:370:C:C2'	34:BA:371:G:H5'	2.46	0.45
34:BA:425:G:C2	34:BA:426:G:C8	3.05	0.45
34:BA:456:C:C2	34:BA:477:G:C2	3.05	0.45
34:BA:564:C:OP1	45:BP:15:ARG:NE	2.50	0.45
34:BA:567:G:N2	34:BA:568:G:H1'	2.32	0.45
34:BA:588:G:C4	34:BA:753:A:C5	3.05	0.45
34:BA:622:A:C2	34:BA:623:C:O4'	2.70	0.45
34:BA:640:A:C5	34:BA:641:U:C6	3.04	0.45
34:BA:752:G:O2'	34:BA:753:A:P	2.75	0.45
34:BA:754:C:H5'	34:BA:755:G:H8	1.69	0.45
34:BA:981:U:H6	34:BA:981:U:C3'	2.26	0.45
34:BA:1048:G:OP1	47:BR:3:ARG:HD2	2.17	0.45
34:BA:1064:G:O3'	34:BA:1065:U:O4'	2.35	0.45
34:BA:1336:C:C2'	34:BA:1337:G:OP2	2.65	0.45
34:BA:1342:C:O2'	34:BA:1343:G:H5'	2.17	0.45
34:BA:1394:A:C3'	34:BA:1395:C:H5'	2.47	0.45
34:BA:1422:G:C2	34:BA:1423:G:N7	2.84	0.45
34:BA:1480:G:C6	34:BA:1481:U:C2	3.05	0.45
34:BA:1506:U:C5	34:BA:1506:U:OP1	2.70	0.45
35:BF:50:GLU:CG	35:BF:200:ILE:HB	2.47	0.45
35:BF:53:ARG:NE	35:BF:199:TYR:CE2	2.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:179:LYS:HG2	41:BL:72:PRO:HA	1.98	0.45
35:BF:218:ALA:C	35:BF:220:ASP:N	2.71	0.45
36:BG:6:HIS:CD2	47:BR:49:HIS:ND1	2.85	0.45
36:BG:10:PHE:O	36:BG:178:LEU:HD22	2.17	0.45
36:BG:123:GLN:O	36:BG:124:ILE:C	2.60	0.45
37:BH:112:VAL:HG22	37:BH:161:ASN:HD21	1.81	0.45
37:BH:145:GLU:C	37:BH:146:ILE:HG13	2.42	0.45
38:BI:6:PHE:HZ	38:BI:66:MET:SD	2.39	0.45
38:BI:11:ILE:CG2	38:BI:31:LEU:HD22	2.47	0.45
38:BI:79:GLU:O	41:BL:104:ARG:NH1	2.50	0.45
38:BI:91:LEU:CD1	38:BI:118:ILE:HG23	2.48	0.45
38:BI:112:LEU:O	38:BI:114:GLY:N	2.49	0.45
39:BJ:69:GLU:O	39:BJ:72:VAL:HG22	2.16	0.45
39:BJ:96:PRO:N	51:BV:32:ARG:HG3	2.32	0.45
40:BK:63:LYS:HA	40:BK:63:LYS:CE	2.33	0.45
40:BK:66:VAL:HG12	40:BK:70:LYS:CE	2.43	0.45
41:BL:110:ALA:HB3	41:BL:121:ASP:OD1	2.16	0.45
41:BL:120:THR:OG1	41:BL:122:ARG:NH1	2.45	0.45
42:BM:6:GLY:HA3	42:BM:84:ALA:N	2.32	0.45
42:BM:101:PHE:O	42:BM:102:LEU:HD23	2.16	0.45
42:BM:112:LYS:HG3	42:BM:117:HIS:CA	2.41	0.45
43:BN:36:GLY:O	43:BN:38:ILE:N	2.49	0.45
44:BO:42:TRP:HZ3	44:BO:47:VAL:CG2	2.29	0.45
46:BQ:14:ARG:NH2	46:BQ:42:ALA:CA	2.63	0.45
50:BU:29:HIS:ND1	50:BU:32:TYR:N	2.63	0.45
51:BV:74:ARG:O	51:BV:77:GLY:HA2	2.17	0.45
52:BW:24:ALA:O	52:BW:26:GLY:N	2.49	0.45
52:BW:50:ALA:HA	52:BW:58:VAL:O	2.16	0.45
53:BX:64:ASP:OD1	53:BX:81:LYS:HE3	2.17	0.45
55:CA:13:HIS:HD2	55:CA:106:MET:O	1.97	0.45
55:CA:59:LYS:N	55:CA:255:LEU:HD21	2.32	0.45
55:CA:68:TYR:O	55:CA:69:ARG:HB2	2.15	0.45
55:CA:119:TYR:HD2	55:CA:121:LEU:CD1	2.29	0.45
55:CA:309:MET:O	55:CA:311:PHE:CD1	2.70	0.45
1:AA:4:C:C2	1:AA:5:A:N7	2.85	0.44
1:AA:30:G:H2'	1:AA:31:C:H6	1.82	0.44
1:AA:120:U:O2	1:AA:149:A:C2	2.70	0.44
1:AA:244:A:O2'	13:AM:66:GLY:CA	2.58	0.44
1:AA:252:G:H2'	1:AA:253:C:H6	1.81	0.44
1:AA:261:G:C2'	1:AA:262:A:H5'	2.47	0.44
1:AA:271(B):G:C3'	1:AA:271(C):U:H5'	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:276:A:O4'	1:AA:276:A:OP2	2.35	0.44
1:AA:303:U:O5'	1:AA:303:U:H6	2.00	0.44
1:AA:370:G:C2'	1:AA:371:A:O5'	2.65	0.44
1:AA:446:G:OP1	18:AR:3:ARG:HD3	2.17	0.44
1:AA:611:C:O2	1:AA:612:G:H1'	2.16	0.44
1:AA:675:A:H5''	6:AF:67:GLN:NE2	2.33	0.44
1:AA:687:C:O5'	1:AA:688:U:OP2	2.35	0.44
1:AA:699:A:N6	1:AA:734:A:C8	2.85	0.44
1:AA:705:A:N7	1:AA:727:A:N7	2.64	0.44
1:AA:713:G:N3	1:AA:713:G:C2'	2.78	0.44
1:AA:730:C:OP2	4:AD:211:ARG:NH2	2.50	0.44
1:AA:733:G:O6	1:AA:761:A:N9	2.50	0.44
1:AA:785:G:N3	1:AA:786:C:C6	2.85	0.44
1:AA:804:A:OP2	13:AM:39:LYS:HB3	2.17	0.44
1:AA:811:U:O4	13:AM:23:PRO:CD	2.65	0.44
1:AA:820:A:C2'	1:AA:821:A:C5'	2.86	0.44
1:AA:892:G:C4	1:AA:893:C:N4	2.86	0.44
1:AA:906:G:N3	1:AA:906:G:C2'	2.77	0.44
1:AA:931:G:C8	1:AA:932:G:C1'	2.72	0.44
1:AA:945:A:H3'	1:AA:946:G:C5'	2.47	0.44
1:AA:1054:A:C6	1:AA:1107:G:N2	2.85	0.44
1:AA:1105:U:C6	1:AA:1107:G:C6	3.03	0.44
1:AA:1161:C:O4'	19:AS:8:GLY:HA3	2.17	0.44
1:AA:1263:U:C5	1:AA:1264:G:N1	2.85	0.44
1:AA:1372:U:C4	1:AA:1373:A:N7	2.85	0.44
1:AA:1625:C:C3'	1:AA:1626:G:H4'	2.47	0.44
1:AA:1635:G:H2'	1:AA:1636:C:O4'	2.17	0.44
1:AA:1761:C:H6	1:AA:1761:C:H3'	1.82	0.44
1:AA:2032:G:H22	1:AA:2499:C:N4	2.14	0.44
1:AA:2076:U:C5'	1:AA:2077:A:OP2	2.65	0.44
1:AA:2168:G:N2	1:AA:2170:A:H2'	2.32	0.44
1:AA:2194:G:C3'	1:AA:2195:C:H5	2.30	0.44
1:AA:2234:G:N2	1:AA:2235:G:H1'	2.33	0.44
1:AA:2261:C:O4'	1:AA:2388:A:H1'	2.17	0.44
1:AA:2277:G:C5	1:AA:2278:A:C8	3.05	0.44
1:AA:2286:A:C1'	29:Ac:37:ARG:HH21	2.27	0.44
1:AA:2298:A:C2	1:AA:2321:G:C6	3.05	0.44
1:AA:2307:G:O2'	1:AA:2311:A:N7	2.50	0.44
1:AA:2376:A:C2	1:AA:2377:A:N3	2.85	0.44
1:AA:2399:G:N3	29:Ac:21:TYR:HE2	2.15	0.44
1:AA:2484:G:C4	14:AN:124:LYS:HE2	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2497:A:O2'	1:AA:2498:C:C5	2.61	0.44
1:AA:2524:G:C4	1:AA:2525:G:H1'	2.52	0.44
1:AA:2646:C:C4	1:AA:2647:U:N3	2.85	0.44
1:AA:2648:C:C5	1:AA:2649:U:O4	2.70	0.44
1:AA:2673:G:C2	1:AA:2674:G:C6	3.04	0.44
1:AA:2674:G:H5''	12:AL:26:LYS:HD2	1.99	0.44
1:AA:2687:U:O2	1:AA:2688:U:O4'	2.35	0.44
1:AA:2694:G:H2'	1:AA:2695:C:O5'	2.16	0.44
1:AA:2748:A:C4	8:AH:67:LEU:HD21	2.41	0.44
1:AA:2776:A:H1'	1:AA:2778:A:H5''	1.99	0.44
1:AA:2795:G:C8	1:AA:2795:G:OP2	2.70	0.44
1:AA:2804:C:C4	1:AA:2805:G:O6	2.71	0.44
1:AA:2839:G:C6	1:AA:2840:C:C4	3.05	0.44
1:AA:2851:A:N1	1:AA:2852:G:C2	2.85	0.44
1:AA:2896:C:H2'	1:AA:2897:U:O5'	2.17	0.44
4:AD:42:GLY:HA3	4:AD:60:ARG:HH22	1.80	0.44
4:AD:182:LEU:H	4:AD:270:ILE:HG13	1.83	0.44
4:AD:226:MET:HE1	4:AD:237:GLU:C	2.42	0.44
5:AE:32:PRO:HG3	5:AE:88:GLY:CA	2.47	0.44
5:AE:33:VAL:CG2	5:AE:34:VAL:N	2.80	0.44
5:AE:125:GLY:C	5:AE:135:HIS:O	2.60	0.44
5:AE:163:GLU:OE1	5:AE:163:GLU:N	2.50	0.44
6:AF:34:TRP:CD1	13:AM:8:PRO:O	2.69	0.44
6:AF:43:LYS:HE3	6:AF:99:TYR:H	1.81	0.44
6:AF:122:LYS:HZ1	6:AF:192:LEU:HB3	1.78	0.44
6:AF:132:VAL:HG22	6:AF:135:LYS:HB2	1.99	0.44
6:AF:133:ASN:CB	6:AF:162:LEU:HD13	2.47	0.44
6:AF:142:TRP:O	6:AF:145:GLU:N	2.49	0.44
6:AF:175:THR:O	6:AF:175:THR:OG1	2.33	0.44
6:AF:194:MET:SD	6:AF:197:ASP:CB	3.05	0.44
7:AG:15:VAL:HG21	7:AG:176:LEU:HD23	1.99	0.44
7:AG:139:LEU:O	7:AG:142:PRO:HD3	2.16	0.44
7:AG:172:LEU:HD12	7:AG:172:LEU:C	2.41	0.44
8:AH:54:ARG:NH2	8:AH:57:ASP:CB	2.81	0.44
8:AH:97:ARG:NH2	8:AH:104:GLU:OE2	2.49	0.44
8:AH:101:ARG:HA	8:AH:101:ARG:HE	1.80	0.44
8:AH:135:GLY:HA3	8:AH:141:VAL:CG2	2.47	0.44
10:AJ:127:ILE:O	10:AJ:131:ALA:HB3	2.16	0.44
11:AK:34:LEU:HD22	11:AK:116:LEU:CD2	2.47	0.44
11:AK:89:LYS:O	11:AK:92:ALA:HB3	2.17	0.44
11:AK:89:LYS:HA	11:AK:92:ALA:HB2	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:12:ASP:C	12:AL:94:ARG:HB3	2.42	0.44
13:AM:46:LYS:HZ3	13:AM:50:ARG:CZ	2.31	0.44
13:AM:97:PRO:CB	13:AM:102:ARG:NH2	2.79	0.44
14:AN:75:THR:HG22	14:AN:77:LYS:CA	2.47	0.44
15:AO:17:ARG:HG3	15:AO:18:LEU:CD2	2.47	0.44
15:AO:63:ARG:HH12	15:AO:80:PHE:HB3	1.82	0.44
15:AO:83:ILE:O	15:AO:86:ARG:HB2	2.17	0.44
16:AP:94:TYR:C	16:AP:99:LYS:CB	2.88	0.44
17:AQ:87:ASP:OD1	17:AQ:88:ILE:N	2.49	0.44
18:AR:11:ARG:CG	18:AR:12:ARG:N	2.80	0.44
19:AS:4:ILE:HD11	19:AS:43:GLU:OE1	2.17	0.44
19:AS:20:LEU:HD13	19:AS:95:LEU:CD1	2.47	0.44
19:AS:40:LEU:CB	19:AS:51:VAL:HG13	2.47	0.44
19:AS:56:SER:O	19:AS:56:SER:OG	2.23	0.44
20:AT:5:ALA:HB3	20:AT:105:VAL:HG13	1.98	0.44
20:AT:13:SER:OG	20:AT:16:LYS:CE	2.65	0.44
20:AT:28:SER:N	20:AT:31:GLU:OE2	2.30	0.44
20:AT:70:TYR:CD1	20:AT:71:VAL:O	2.71	0.44
21:AU:4:ALA:HB3	25:AY:21:ARG:CZ	2.47	0.44
22:AV:14:LEU:N	22:AV:14:LEU:CD1	2.80	0.44
22:AV:67:LEU:HD12	22:AV:71:LYS:HZ1	1.82	0.44
23:AW:55:HIS:HB3	23:AW:101:PRO:CD	2.47	0.44
23:AW:122:ARG:CB	23:AW:171:ILE:HA	2.48	0.44
24:AX:38:VAL:O	24:AX:59:LEU:CB	2.53	0.44
25:AY:16:LEU:HD22	25:AY:58:VAL:CG2	2.47	0.44
25:AY:37:GLY:O	25:AY:38:GLN:HB2	2.17	0.44
30:Ad:33:ARG:O	30:Ad:37:LYS:CG	2.65	0.44
31:Ae:6:THR:C	31:Ae:8:LYS:N	2.74	0.44
31:Ae:16:ILE:HA	31:Ae:21:LYS:O	2.18	0.44
31:Ae:55:ALA:CA	31:Ae:58:ILE:HD11	2.38	0.44
34:BA:131:C:C4	34:BA:232:G:N1	2.85	0.44
34:BA:152:A:C8	34:BA:152:A:C3'	3.00	0.44
34:BA:152:A:C8	34:BA:153:C:C5	3.05	0.44
34:BA:152:A:OP2	34:BA:153:C:H5	1.99	0.44
34:BA:164:U:C2'	34:BA:164:U:O2	2.64	0.44
34:BA:190:G:HO2'	34:BA:191(A):G:P	2.39	0.44
34:BA:210:U:H5'	34:BA:216:G:OP1	2.17	0.44
34:BA:245:C:N3	34:BA:284:G:C6	2.85	0.44
34:BA:322:C:N3	34:BA:323:U:O2	2.49	0.44
34:BA:440:A:H2'	34:BA:442:C:O4'	2.17	0.44
34:BA:501:C:OP2	45:BP:124:LYS:HD2	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:563:A:C2	34:BA:567:G:C4	3.05	0.44
34:BA:619:U:H1'	37:BH:133:VAL:HG22	1.99	0.44
34:BA:859:A:C2'	34:BA:860:A:O4'	2.58	0.44
34:BA:883:C:H5'	34:BA:884:U:OP2	2.16	0.44
34:BA:986:A:H1'	52:BW:55:LYS:HG2	1.99	0.44
34:BA:991:U:N3	34:BA:1212:U:O2	2.49	0.44
34:BA:1034:G:C2	34:BA:1035:A:N7	2.85	0.44
34:BA:1074:G:C2'	34:BA:1075:C:H5'	2.47	0.44
34:BA:1085:U:O4'	34:BA:1094:G:C2	2.70	0.44
34:BA:1109:C:C6	34:BA:1110:A:N7	2.84	0.44
34:BA:1117:G:C5	34:BA:1184:G:C4	3.05	0.44
34:BA:1133:G:C8	34:BA:1133:G:H3'	2.52	0.44
34:BA:1225:A:H2'	34:BA:1225:A:N3	2.32	0.44
34:BA:1236:A:H2'	34:BA:1237:C:C6	2.53	0.44
34:BA:1241:G:C8	34:BA:1241:G:OP2	2.69	0.44
34:BA:1241:G:O2'	34:BA:1242:C:C5'	2.65	0.44
34:BA:1251:A:H4'	34:BA:1370:G:H4'	1.99	0.44
34:BA:1254:C:OP1	43:BN:45:ARG:NE	2.50	0.44
34:BA:1352:C:H1'	34:BA:1371:G:N2	2.32	0.44
34:BA:1453:G:O2'	34:BA:1454:G:H5'	2.16	0.44
34:BA:1466:C:H2'	34:BA:1467:G:H1'	1.98	0.44
35:BF:97:TRP:C	35:BF:99:GLY:H	2.25	0.44
35:BF:102:LEU:HD23	35:BF:176:GLU:HB3	1.95	0.44
35:BF:157:ARG:HG2	35:BF:158:LEU:HD23	1.98	0.44
35:BF:207:ALA:O	35:BF:210:SER:N	2.50	0.44
36:BG:55:VAL:HG22	36:BG:68:VAL:CG2	2.48	0.44
36:BG:160:ALA:C	36:BG:162:GLN:N	2.69	0.44
37:BH:19:LEU:C	37:BH:21:LEU:H	2.18	0.44
37:BH:83:SER:N	37:BH:89:THR:CG2	2.80	0.44
37:BH:107:ARG:HD2	37:BH:173:TRP:CZ2	2.52	0.44
38:BI:17:ALA:CA	38:BI:26:PHE:HD2	2.27	0.44
38:BI:61:TYR:O	38:BI:62:ALA:C	2.59	0.44
39:BJ:2:ARG:C	39:BJ:67:MET:SD	3.00	0.44
39:BJ:23:LYS:HA	39:BJ:26:ILE:HG13	1.98	0.44
40:BK:26:PHE:CD1	40:BK:26:PHE:C	2.92	0.44
40:BK:42:ILE:HG21	40:BK:116:ALA:HB1	1.98	0.44
41:BL:18:ARG:H	41:BL:18:ARG:HD2	1.81	0.44
41:BL:46:LYS:NZ	41:BL:65:TYR:H	2.11	0.44
41:BL:49:GLU:O	41:BL:59:LEU:HD23	2.17	0.44
42:BM:75:ASP:O	42:BM:78:LYS:N	2.50	0.44
42:BM:105:ASP:OD1	42:BM:107:ARG:NH2	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:95:ILE:O	44:BO:99:GLN:HG3	2.17	0.44
44:BO:108:ILE:HB	51:BV:88:LYS:OXT	2.17	0.44
45:BP:46:LYS:HZ3	45:BP:94:PRO:HG2	1.82	0.44
46:BQ:16:ASP:OD1	46:BQ:41:PRO:HB3	2.17	0.44
46:BQ:29:ARG:HD2	46:BQ:66:LEU:HD11	1.55	0.44
46:BQ:36:LYS:HZ1	46:BQ:59:TYR:CB	2.28	0.44
46:BQ:64:TRP:HE1	46:BQ:66:LEU:HD22	1.80	0.44
46:BQ:70:LEU:CD1	46:BQ:74:VAL:CG2	2.95	0.44
46:BQ:91:ARG:HD3	46:BQ:97:PRO:O	2.16	0.44
47:BR:23:ARG:CA	47:BR:33:VAL:HG21	2.46	0.44
48:BS:39:LEU:CD2	48:BS:39:LEU:C	2.89	0.44
49:BT:4:ILE:HG12	49:BT:65:GLN:O	2.17	0.44
49:BT:8:ARG:HD3	49:BT:15:PRO:CB	2.47	0.44
51:BV:56:THR:HB	51:BV:58:LEU:CD1	2.44	0.44
51:BV:70:ILE:O	51:BV:74:ARG:CD	2.59	0.44
52:BW:17:GLU:OE1	52:BW:18:LYS:N	2.50	0.44
53:BX:40:ALA:O	53:BX:43:LEU:N	2.50	0.44
54:BY:6:ARG:HG3	54:BY:7:ARG:H	1.82	0.44
54:BY:13:ILE:HG23	54:BY:14:TRP:N	2.32	0.44
55:CA:61:THR:HG22	55:CA:65:LYS:CB	2.25	0.44
1:AA:18:C:N3	1:AA:19:C:C5	2.85	0.44
1:AA:22:C:H2'	1:AA:23:G:O5'	2.17	0.44
1:AA:447:A:O2'	1:AA:448:U:H5'	2.17	0.44
1:AA:451:C:H5	1:AA:453:C:C5'	2.19	0.44
1:AA:487:C:N4	1:AA:488:G:C5	2.86	0.44
1:AA:495:G:C2'	1:AA:496:G:O5'	2.66	0.44
1:AA:499:U:O4	1:AA:500:G:N2	2.50	0.44
1:AA:513:A:C2'	1:AA:514:A:H5'	2.47	0.44
1:AA:536:A:C6	1:AA:558:G:C6	3.05	0.44
1:AA:581:C:O3'	18:AR:32:PHE:CE2	2.70	0.44
1:AA:625:G:N1	1:AA:626:U:H1'	2.33	0.44
1:AA:687:C:C1'	1:AA:788:A:O4'	2.65	0.44
1:AA:688:U:H5'	1:AA:1780:A:N6	2.32	0.44
1:AA:692:C:C2'	1:AA:693:C:O5'	2.65	0.44
1:AA:705:A:C2	1:AA:706:A:N9	2.85	0.44
1:AA:763:G:C5	1:AA:765:G:C8	3.05	0.44
1:AA:784:A:C6	1:AA:792:G:N3	2.84	0.44
1:AA:853:G:O2'	1:AA:854:G:O4'	2.26	0.44
1:AA:943:U:C2'	1:AA:944:G:OP1	2.65	0.44
1:AA:944:G:H2'	1:AA:944:G:N3	2.32	0.44
1:AA:1013:C:C2	1:AA:1014:U:C5	3.06	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1014:U:H2'	1:AA:1015:G:H5'	1.98	0.44
1:AA:1027:A:N1	1:AA:1126:A:C4	2.85	0.44
1:AA:1047:G:N9	1:AA:1110:G:N7	2.57	0.44
1:AA:1067:A:C5'	10:AJ:21:PRO:CB	2.95	0.44
1:AA:1069:A:OP1	1:AA:1070:A:C6	2.70	0.44
1:AA:1081:U:C2'	1:AA:1082:U:H5'	2.46	0.44
1:AA:1101:U:H2'	1:AA:1101:U:O2	2.16	0.44
1:AA:1102:C:O2'	1:AA:1103:A:H8	2.01	0.44
1:AA:1161:C:H2'	1:AA:1162:G:O4'	2.17	0.44
1:AA:1178:C:C2	1:AA:1179:C:C4	3.05	0.44
1:AA:1183:G:O2'	1:AA:1184:G:P	2.75	0.44
1:AA:1196:C:H1'	1:AA:1226:G:H1'	1.98	0.44
1:AA:1275:A:O2'	1:AA:1276:A:O5'	2.17	0.44
1:AA:1284:A:O2'	1:AA:1285:G:H5'	2.17	0.44
1:AA:1309:G:H5''	30:Ad:9:ARG:H	1.81	0.44
1:AA:1312:U:O3'	21:AU:63:LYS:HD2	2.18	0.44
1:AA:1343:G:N2	1:AA:1405:U:C6	2.84	0.44
1:AA:1353:A:C2'	1:AA:1354:A:O4'	2.65	0.44
1:AA:1359:A:C8	1:AA:1359:A:C4'	3.00	0.44
1:AA:1388:G:N3	1:AA:1389:G:C8	2.85	0.44
1:AA:1388:G:N1	1:AA:1400:G:C2	2.85	0.44
1:AA:1417:C:H2'	1:AA:1418:G:O5'	2.18	0.44
1:AA:1432:C:N3	1:AA:1433:U:C2	2.85	0.44
1:AA:1581:G:C2'	1:AA:1582:C:H5'	2.47	0.44
1:AA:1596:A:C6	1:AA:1597:A:C5	3.05	0.44
1:AA:1615:C:N4	1:AA:1617:C:O2	2.50	0.44
1:AA:1836:C:N4	1:AA:1837:C:N4	2.65	0.44
1:AA:1855:G:C6	1:AA:1856:G:N7	2.85	0.44
1:AA:1905:C:C4	1:AA:1930:G:C2	3.06	0.44
1:AA:1957:C:C2'	1:AA:1958:C:O5'	2.65	0.44
1:AA:2014:A:C2	1:AA:2613:U:C2	3.05	0.44
1:AA:2026:C:C2'	1:AA:2027:G:C5'	2.96	0.44
1:AA:2031:A:N6	1:AA:2498:C:H1'	2.25	0.44
1:AA:2046:G:C6	1:AA:2623:G:C6	3.06	0.44
1:AA:2049:G:O2'	1:AA:2050:C:P	2.75	0.44
1:AA:2084:C:C2	1:AA:2085:C:C5	3.05	0.44
1:AA:2084:C:O2'	1:AA:2085:C:H5'	2.17	0.44
1:AA:2125:G:N2	1:AA:2172:U:C5'	2.80	0.44
1:AA:2135:A:O5'	1:AA:2136:C:C5	2.70	0.44
1:AA:2276:G:N2	1:AA:2277:G:C4	2.85	0.44
1:AA:2278:A:C6	1:AA:2279:G:C5	3.04	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2554:U:H5	1:AA:2556:C:C4	2.36	0.44
1:AA:2689:U:H5'	1:AA:2690:C:H5'	1.98	0.44
1:AA:2719:G:OP1	17:AQ:101:PHE:CE2	2.71	0.44
1:AA:2816:C:C2	1:AA:2831:G:C2	3.06	0.44
1:AA:2833:G:N2	5:AE:56:PRO:HB3	2.32	0.44
1:AA:2879:C:C5'	1:AA:2880:C:OP1	2.64	0.44
1:AA:2880:C:N3	1:AA:2881:C:C5	2.86	0.44
1:AA:2897:U:H2'	1:AA:2898:U:H6	1.82	0.44
2:AB:13:A:H2	2:AB:69:G:N2	2.04	0.44
2:AB:104:A:H3'	2:AB:105:G:O4'	2.16	0.44
3:AC:75:LEU:CD2	3:AC:77:ILE:HD11	2.32	0.44
3:AC:78:ALA:C	3:AC:119:VAL:HG11	2.42	0.44
3:AC:104:LEU:HD21	3:AC:126:LYS:C	2.42	0.44
4:AD:84:TYR:CD2	4:AD:91:ARG:HD2	2.52	0.44
4:AD:89:SER:OG	4:AD:158:ALA:CB	2.56	0.44
4:AD:117:VAL:CG1	4:AD:129:ASN:N	2.79	0.44
4:AD:137:PRO:HG2	4:AD:140:THR:HG21	1.99	0.44
5:AE:59:VAL:HG12	5:AE:61:ARG:N	2.32	0.44
6:AF:8:GLN:HB3	6:AF:18:ARG:CB	2.47	0.44
6:AF:53:THR:O	6:AF:55:GLY:N	2.51	0.44
6:AF:80:ALA:O	6:AF:83:PHE:HD1	2.00	0.44
6:AF:119:ARG:NH1	6:AF:119:ARG:CB	2.60	0.44
6:AF:122:LYS:HD3	6:AF:122:LYS:C	2.42	0.44
7:AG:8:LYS:HG3	7:AG:100:TRP:O	2.17	0.44
7:AG:39:ILE:CD1	7:AG:92:VAL:O	2.64	0.44
7:AG:47:LYS:HB3	7:AG:72:ARG:HB3	2.00	0.44
7:AG:75:LYS:HB3	7:AG:84:LYS:HB2	1.96	0.44
7:AG:98:ARG:O	7:AG:101:ILE:HG22	2.17	0.44
7:AG:144:ILE:HG23	7:AG:145:THR:O	2.16	0.44
7:AG:153:ARG:C	7:AG:155:MET:SD	3.00	0.44
8:AH:8:PRO:N	8:AH:51:ARG:NH1	2.64	0.44
8:AH:76:VAL:CA	8:AH:79:VAL:HG22	2.45	0.44
8:AH:149:ARG:NH1	8:AH:164:TYR:CD1	2.85	0.44
9:AI:152:VAL:C	9:AI:155:GLY:N	2.74	0.44
11:AK:96:GLU:HG2	11:AK:97:ARG:N	2.32	0.44
13:AM:23:PRO:HB2	13:AM:29:LYS:N	2.28	0.44
14:AN:25:ASP:CA	14:AN:102:VAL:HG12	2.48	0.44
14:AN:32:TYR:CB	14:AN:105:GLU:O	2.54	0.44
14:AN:49:ALA:O	14:AN:52:VAL:HB	2.16	0.44
15:AO:6:SER:CB	15:AO:9:LYS:HE2	2.47	0.44
15:AO:13:HIS:ND1	15:AO:13:HIS:C	2.74	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:14:SER:O	15:AO:17:ARG:CG	2.54	0.44
15:AO:35:THR:HG22	15:AO:113:LEU:CD2	2.47	0.44
15:AO:36:THR:OG1	15:AO:40:LYS:HB3	2.17	0.44
16:AP:49:VAL:HG22	16:AP:50:SER:N	2.31	0.44
16:AP:66:ALA:C	16:AP:68:GLN:N	2.72	0.44
16:AP:93:LYS:CG	16:AP:94:TYR:N	2.80	0.44
17:AQ:7:ILE:O	17:AQ:10:VAL:N	2.49	0.44
17:AQ:28:VAL:CG2	17:AQ:94:ALA:N	2.80	0.44
17:AQ:61:PHE:HD1	17:AQ:81:PRO:CD	2.24	0.44
17:AQ:92:GLY:HA2	17:AQ:93:ARG:NE	2.33	0.44
17:AQ:111:ARG:HA	17:AQ:114:LEU:CG	2.47	0.44
18:AR:52:ARG:CB	18:AR:55:ARG:HD3	2.46	0.44
19:AS:13:ARG:C	19:AS:14:VAL:HG23	2.42	0.44
20:AT:23:LEU:HG	28:Ab:25:LEU:HG	1.99	0.44
22:AV:8:LYS:HE3	22:AV:28:LYS:HD2	2.00	0.44
22:AV:26:LYS:HZ1	22:AV:36:ALA:CB	2.29	0.44
22:AV:38:ILE:O	22:AV:38:ILE:HG22	2.17	0.44
22:AV:65:ALA:O	22:AV:66:PRO:O	2.35	0.44
23:AW:76:LEU:CD2	23:AW:83:PRO:HB3	2.47	0.44
23:AW:108:PRO:O	23:AW:109:ALA:HB2	2.18	0.44
23:AW:112:ARG:HG3	23:AW:112:ARG:HH11	1.83	0.44
23:AW:145:GLU:OE2	23:AW:180:VAL:HG11	2.17	0.44
23:AW:168:GLU:OE1	23:AW:168:GLU:C	2.61	0.44
25:AY:19:LEU:HD11	25:AY:23:LYS:HD3	1.99	0.44
26:AZ:23:LEU:CA	26:AZ:28:LEU:CD1	2.90	0.44
27:Aa:59:PHE:O	27:Aa:61:ARG:N	2.49	0.44
30:Ad:19:ARG:HG2	30:Ad:19:ARG:HH11	1.82	0.44
32:Af:19:ARG:HG2	32:Af:24:TYR:HB2	1.98	0.44
34:BA:20:U:C6	34:BA:916:G:N2	2.83	0.44
34:BA:26:A:N6	34:BA:558:G:H1'	2.32	0.44
34:BA:113:G:O4'	34:BA:354:G:H5''	2.17	0.44
34:BA:189:U:H3	50:BU:63:ARG:CB	2.30	0.44
34:BA:222:U:O2'	34:BA:223:U:H5'	2.18	0.44
34:BA:226:G:O2'	34:BA:227:G:H5'	2.18	0.44
34:BA:404:U:OP1	37:BH:118:ARG:NH1	2.51	0.44
34:BA:498:A:C4'	34:BA:500:G:OP1	2.61	0.44
34:BA:538:G:OP2	45:BP:115:LYS:HB2	2.17	0.44
34:BA:568:G:H2'	34:BA:569:C:C6	2.52	0.44
34:BA:586:C:P	50:BU:34:LYS:NZ	2.89	0.44
34:BA:761:G:C5	34:BA:762:C:C5	3.05	0.44
34:BA:812:C:C4'	34:BA:813:U:C6	3.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:878:G:OP1	41:BL:88:LYS:HB2	2.17	0.44
34:BA:924:C:H5'	34:BA:1399:C:OP1	2.16	0.44
34:BA:1000:A:H2'	34:BA:1001:G:H5'	2.00	0.44
34:BA:1101:A:O2'	34:BA:1102:A:OP2	2.35	0.44
34:BA:1186:G:H4'	42:BM:110:GLU:HG3	1.99	0.44
34:BA:1192:C:N4	34:BA:1193:G:C6	2.86	0.44
34:BA:1242:C:O3'	54:BY:10:ARG:NH1	2.50	0.44
34:BA:1268:A:C2'	34:BA:1269:A:O5'	2.65	0.44
34:BA:1296:C:C5	34:BA:1297:C:N4	2.84	0.44
34:BA:1313:U:O4	34:BA:1325:C:C2	2.70	0.44
34:BA:1430:C:O2'	34:BA:1431:C:H5'	2.18	0.44
34:BA:1455:G:H5''	53:BX:31:SER:CB	2.40	0.44
34:BA:1537:U:H2'	34:BA:1538:C:H6	1.81	0.44
35:BF:28:PHE:CE1	35:BF:31:TYR:C	2.95	0.44
35:BF:28:PHE:HA	35:BF:194:PRO:CG	2.48	0.44
35:BF:28:PHE:HA	35:BF:194:PRO:HG2	1.99	0.44
35:BF:82:ARG:CB	35:BF:94:ASN:ND2	2.70	0.44
35:BF:171:ALA:O	35:BF:174:VAL:CB	2.63	0.44
36:BG:30:ARG:N	36:BG:30:ARG:CD	2.79	0.44
36:BG:119:ARG:O	36:BG:120:VAL:C	2.60	0.44
37:BH:39:PRO:HG2	37:BH:44:GLY:O	2.17	0.44
37:BH:190:ASP:H	37:BH:193:ASP:CG	2.25	0.44
38:BI:12:LEU:HD12	38:BI:31:LEU:N	2.32	0.44
38:BI:20:GLN:NE2	38:BI:21:ALA:HB3	2.29	0.44
38:BI:105:VAL:CG1	38:BI:132:ALA:HA	2.47	0.44
39:BJ:16:GLN:O	39:BJ:19:LEU:HB3	2.17	0.44
40:BK:90:GLU:O	40:BK:92:SER:N	2.50	0.44
40:BK:111:ARG:HH12	40:BK:112:PRO:HD2	1.74	0.44
41:BL:32:LYS:O	41:BL:33:GLU:C	2.60	0.44
41:BL:113:SER:O	41:BL:131:GLY:CA	2.65	0.44
42:BM:101:PHE:O	42:BM:102:LEU:CD2	2.65	0.44
42:BM:118:LYS:HD3	42:BM:118:LYS:HA	1.79	0.44
43:BN:33:GLN:O	43:BN:34:VAL:CB	2.64	0.44
43:BN:34:VAL:CG1	43:BN:35:SER:N	2.72	0.44
45:BP:36:VAL:HA	45:BP:82:VAL:HA	1.99	0.44
45:BP:121:GLY:O	45:BP:122:THR:OG1	2.29	0.44
45:BP:126:LYS:HZ3	45:BP:128:ALA:N	2.14	0.44
47:BR:26:ARG:HB2	47:BR:39:LEU:HD22	1.99	0.44
48:BS:76:GLU:C	48:BS:78:TYR:N	2.72	0.44
49:BT:82:GLN:O	49:BT:83:GLU:C	2.60	0.44
50:BU:53:LEU:O	50:BU:53:LEU:CG	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:69:THR:C	51:BV:71:LYS:N	2.71	0.44
53:BX:31:SER:O	53:BX:34:LYS:HB2	2.17	0.44
55:CA:10:ILE:HG23	55:CA:96:LEU:O	2.17	0.44
55:CA:54:ILE:HA	55:CA:55:THR:HA	1.54	0.44
55:CA:77:GLY:HA2	55:CA:78:HIS:CB	2.34	0.44
55:CA:405:LEU:HD12	55:CA:405:LEU:HA	1.79	0.44
1:AA:144:C:H2'	1:AA:145:G:H5'	1.99	0.44
1:AA:176:G:C3'	1:AA:177:G:H8	2.30	0.44
1:AA:193:U:O2'	1:AA:194:G:H5'	2.17	0.44
1:AA:298:G:H1	1:AA:338:G:C2'	2.31	0.44
1:AA:348:G:C4	1:AA:349:G:N7	2.85	0.44
1:AA:398:G:N2	1:AA:399:G:H1'	2.32	0.44
1:AA:470:A:H2'	1:AA:471:A:O5'	2.18	0.44
1:AA:566:U:C5	1:AA:567:A:C5	3.05	0.44
1:AA:568:U:C2'	1:AA:570:G:N7	2.80	0.44
1:AA:572:A:C8	1:AA:573:G:C5	3.06	0.44
1:AA:609:A:N6	1:AA:619:G:N2	2.61	0.44
1:AA:729:G:C5	1:AA:730:C:N1	2.85	0.44
1:AA:730:C:H2'	1:AA:731:C:H6	1.73	0.44
1:AA:751:A:H62	1:AA:789:A:H62	1.66	0.44
1:AA:771:G:C2	1:AA:772:C:C5	3.05	0.44
1:AA:814:C:C4'	1:AA:1224:G:H22	2.30	0.44
1:AA:833:U:H2'	1:AA:834:C:O5'	2.18	0.44
1:AA:850:C:O2'	26:AZ:22:ALA:HB2	2.18	0.44
1:AA:943:U:OP2	13:AM:32:THR:C	2.61	0.44
1:AA:971:C:N4	1:AA:972:G:N2	2.66	0.44
1:AA:972:G:H5''	1:AA:974:G:P	2.56	0.44
1:AA:996:A:N6	1:AA:1160:G:N1	2.65	0.44
1:AA:997:G:O3'	18:AR:92:ARG:NH1	2.50	0.44
1:AA:1006:C:C6	1:AA:1137:G:N2	2.85	0.44
1:AA:1094:U:O2	1:AA:1097:U:H5	1.99	0.44
1:AA:1154:G:OP1	18:AR:58:ARG:HD3	2.16	0.44
1:AA:1184:G:C5	1:AA:1185:C:C5	3.05	0.44
1:AA:1207:C:N3	1:AA:1208:C:C4	2.86	0.44
1:AA:1242:A:N3	1:AA:1242:A:H2'	2.32	0.44
1:AA:1260:G:N2	1:AA:1261:C:C2	2.85	0.44
1:AA:1303:G:N7	1:AA:1304:C:N4	2.64	0.44
1:AA:1323:U:C2'	1:AA:1324:G:OP1	2.65	0.44
1:AA:1334:G:C5'	21:AU:65:ARG:NH1	2.73	0.44
1:AA:1383:C:HO2'	1:AA:1384:A:H8	1.61	0.44
1:AA:1419:A:OP2	1:AA:1419:A:C4'	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1429:G:C8	1:AA:1430:C:C5	3.05	0.44
1:AA:1449:A:P	1:AA:1543:A:N1	2.91	0.44
1:AA:1491:G:C4	1:AA:1492:G:O2'	2.61	0.44
1:AA:1536:A:C2	1:AA:1537:C:C2	3.05	0.44
1:AA:1636:C:O3'	1:AA:1760:A:O2'	2.34	0.44
1:AA:1660:C:O2'	1:AA:1661:G:C5'	2.65	0.44
1:AA:1769:G:C2	1:AA:1984:G:C5	3.06	0.44
1:AA:1829:A:N3	1:AA:1830:C:O4'	2.50	0.44
1:AA:1842:G:N1	1:AA:1901:A:C6	2.85	0.44
1:AA:1913:A:N6	34:BA:1494:G:P	2.89	0.44
1:AA:1974:C:C2	1:AA:1975:G:C8	3.05	0.44
1:AA:2089:U:C2	1:AA:2090:G:N7	2.85	0.44
1:AA:2114:A:H2'	1:AA:2115:G:O4'	2.17	0.44
1:AA:2195:C:C2	1:AA:2196:C:H6	2.35	0.44
1:AA:2216:G:H21	4:AD:150:LYS:CD	2.30	0.44
1:AA:2258:C:N4	1:AA:2426:A:O4'	2.50	0.44
1:AA:2383:G:N2	1:AA:2384:G:C4	2.86	0.44
1:AA:2444:G:N1	1:AA:2445:G:C6	2.85	0.44
1:AA:2464:C:H2'	1:AA:2465:C:H6	1.82	0.44
1:AA:2468:G:H5'	14:AN:120:ILE:HD11	1.98	0.44
1:AA:2543:G:H2'	1:AA:2544:G:C8	2.53	0.44
1:AA:2642:G:C2	1:AA:2773:C:N3	2.86	0.44
1:AA:2662:A:OP1	55:CA:48:LEU:HD11	2.17	0.44
1:AA:2666:C:H3'	1:AA:2667:C:C5'	2.47	0.44
1:AA:2742:C:O2	1:AA:2742:C:C2'	2.64	0.44
1:AA:2825:C:N4	1:AA:2826:A:H62	2.15	0.44
2:AB:73:A:N7	2:AB:104:A:C4	2.86	0.44
3:AC:75:LEU:HD22	3:AC:110:PHE:CE1	2.51	0.44
3:AC:117:PRO:HD2	3:AC:147:PHE:CG	2.52	0.44
3:AC:175:VAL:C	3:AC:188:ASN:HB3	2.41	0.44
4:AD:259:THR:O	4:AD:260:ARG:C	2.60	0.44
5:AE:60:ASN:OD1	5:AE:61:ARG:HD3	2.18	0.44
5:AE:91:VAL:CG2	5:AE:93:VAL:H	2.20	0.44
5:AE:101:ARG:NH1	5:AE:171:GLU:CG	2.79	0.44
6:AF:194:MET:HB2	6:AF:194:MET:HE2	1.78	0.44
8:AH:20:ALA:HB3	8:AH:21:PRO:HD2	1.99	0.44
8:AH:33:LEU:C	8:AH:33:LEU:HD23	2.42	0.44
8:AH:164:TYR:CD2	8:AH:167:GLU:HG2	2.53	0.44
10:AJ:4:VAL:O	10:AJ:4:VAL:HG13	2.17	0.44
10:AJ:17:ALA:HB1	10:AJ:41:PHE:CA	2.47	0.44
10:AJ:23:VAL:CB	10:AJ:41:PHE:HE2	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:98:ARG:HH22	10:AJ:101:TRP:HD1	1.64	0.44
11:AK:113:GLY:O	11:AK:114:ARG:C	2.61	0.44
12:AL:31:LYS:CB	12:AL:32:TYR:CE2	3.01	0.44
14:AN:22:LYS:NZ	14:AN:23:GLY:C	2.75	0.44
14:AN:72:LYS:HE2	14:AN:96:VAL:CG2	2.46	0.44
14:AN:75:THR:HG23	14:AN:89:ASN:O	2.16	0.44
14:AN:113:GLN:O	14:AN:114:ALA:C	2.61	0.44
14:AN:115:MET:HA	14:AN:118:LEU:CD1	2.47	0.44
15:AO:57:ARG:NE	15:AO:62:ALA:CB	2.68	0.44
15:AO:77:ARG:HH11	15:AO:77:ARG:CG	2.29	0.44
16:AP:70:GLY:HA3	16:AP:104:GLY:HA3	1.99	0.44
16:AP:77:ALA:O	16:AP:79:ALA:N	2.50	0.44
16:AP:94:TYR:HD1	16:AP:94:TYR:H	1.66	0.44
17:AQ:25:GLY:O	17:AQ:100:TYR:OH	2.36	0.44
17:AQ:64:ARG:NH1	17:AQ:78:LEU:N	2.65	0.44
17:AQ:96:ARG:NE	17:AQ:117:ASP:HB3	2.31	0.44
18:AR:47:TYR:HE1	19:AS:75:PHE:C	2.25	0.44
18:AR:112:ARG:O	18:AR:113:ALA:C	2.60	0.44
19:AS:1:MET:N	19:AS:45:THR:OG1	2.50	0.44
19:AS:23:GLU:O	19:AS:23:GLU:HG2	2.17	0.44
19:AS:30:GLY:C	19:AS:31:ALA:O	2.61	0.44
19:AS:93:GLU:OE2	19:AS:95:LEU:CD2	2.66	0.44
20:AT:46:PHE:O	20:AT:50:VAL:HG23	2.17	0.44
21:AU:31:HIS:HE1	21:AU:33:LYS:HD2	1.83	0.44
21:AU:73:ARG:HG2	21:AU:74:PRO:CD	2.35	0.44
23:AW:34:ASN:OD1	23:AW:34:ASN:C	2.60	0.44
24:AX:72:ARG:O	24:AX:75:LEU:CD1	2.65	0.44
25:AY:24:LYS:O	25:AY:25:ARG:C	2.60	0.44
25:AY:25:ARG:CG	25:AY:25:ARG:NH1	2.73	0.44
26:AZ:45:GLY:HA2	26:AZ:48:GLU:CG	2.46	0.44
27:Aa:29:PRO:O	27:Aa:31:ILE:CD1	2.65	0.44
30:Ad:19:ARG:CB	30:Ad:23:ARG:NH2	2.73	0.44
30:Ad:30:VAL:HG22	30:Ad:33:ARG:HH21	1.82	0.44
31:Ae:37:SER:OG	31:Ae:38:GLY:N	2.43	0.44
32:Af:1:MET:N	32:Af:33:LYS:CB	2.79	0.44
33:Ag:335:UNK:CB	33:Ag:346:UNK:C	2.95	0.44
34:BA:37:U:OP1	45:BP:123:LYS:HE3	2.18	0.44
34:BA:89:U:N3	34:BA:90:C:C4	2.85	0.44
34:BA:110:C:H2'	34:BA:111:G:C8	2.53	0.44
34:BA:110:C:H6	34:BA:110:C:P	2.40	0.44
34:BA:133:U:H5'	34:BA:134:A:OP1	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:189:U:H2'	50:BU:63:ARG:HH22	1.82	0.44
34:BA:278:G:N2	34:BA:279:A:H62	2.15	0.44
34:BA:280:C:O2	50:BU:39:SER:HB3	2.18	0.44
34:BA:307:C:N3	34:BA:308:C:H5	2.14	0.44
34:BA:310:G:H2'	34:BA:311:C:C5	2.49	0.44
34:BA:363:A:N7	45:BP:30:ALA:CB	2.74	0.44
34:BA:544:G:C6	34:BA:545:C:N4	2.86	0.44
34:BA:568:G:C2	34:BA:574:A:H2	2.35	0.44
34:BA:644:G:H2'	34:BA:645:C:C5'	2.48	0.44
34:BA:706:A:H4'	44:BO:29:ILE:HD11	1.98	0.44
34:BA:714:G:H1'	34:BA:777:A:C5	2.51	0.44
34:BA:714:G:C1'	34:BA:777:A:N7	2.77	0.44
34:BA:737:A:H2'	34:BA:738:C:C6	2.51	0.44
34:BA:747:C:H2'	34:BA:748:C:O4'	2.17	0.44
34:BA:750:G:C2'	48:BS:23:GLY:O	2.66	0.44
34:BA:760:G:C2	50:BU:104:LYS:O	2.70	0.44
34:BA:812:C:HO2'	34:BA:813:U:P	2.37	0.44
34:BA:819:A:N3	34:BA:1529:G:O6	2.50	0.44
34:BA:833:U:C2'	34:BA:834:C:H6	2.30	0.44
34:BA:836:G:N1	34:BA:837:G:C5	2.85	0.44
34:BA:977:A:O2'	34:BA:979:C:P	2.75	0.44
34:BA:1115:C:O2	34:BA:1186:G:N3	2.50	0.44
34:BA:1142:G:C4	34:BA:1143:G:C8	3.06	0.44
34:BA:1302:U:P	46:BQ:21:TYR:CE2	3.08	0.44
34:BA:1362:C:O2'	34:BA:1362(A):C:C6	2.71	0.44
34:BA:1470:G:C6	34:BA:1471:G:C5	3.05	0.44
35:BF:8:LYS:HB3	35:BF:9:GLU:H	1.61	0.44
35:BF:46:LYS:CE	35:BF:49:GLU:HG2	2.47	0.44
35:BF:80:ILE:HG13	35:BF:239:VAL:HG21	1.99	0.44
35:BF:139:LYS:CG	35:BF:140:HIS:H	2.23	0.44
36:BG:123:GLN:HB3	36:BG:128:PHE:CZ	2.52	0.44
37:BH:15:GLU:OE2	37:BH:63:LYS:HE3	2.17	0.44
37:BH:63:LYS:HA	37:BH:66:ARG:CD	2.44	0.44
37:BH:67:ILE:CD1	37:BH:68:TYR:CD1	3.00	0.44
37:BH:80:GLU:O	37:BH:83:SER:CB	2.66	0.44
37:BH:118:ARG:HG3	37:BH:136:PRO:HB3	1.99	0.44
37:BH:139:ARG:CG	37:BH:140:VAL:H	2.29	0.44
37:BH:198:VAL:HG23	37:BH:199:ASN:N	2.25	0.44
38:BI:41:VAL:CG2	38:BI:113:ALA:HA	2.47	0.44
38:BI:82:VAL:HG13	38:BI:134:ALA:HB1	2.00	0.44
40:BK:11:GLN:NE2	40:BK:12:LEU:HD12	2.33	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:77:SER:HA	40:BK:85:TYR:O	2.17	0.44
40:BK:126:ASP:O	40:BK:131:LYS:HG3	2.17	0.44
41:BL:5:PRO:O	41:BL:8:ASP:CB	2.54	0.44
41:BL:30:ARG:O	41:BL:31:PHE:C	2.60	0.44
44:BO:58:PRO:HB3	44:BO:90:GLY:HA2	1.93	0.44
44:BO:65:ALA:CB	44:BO:98:LEU:CD2	2.94	0.44
45:BP:65:GLU:C	45:BP:66:VAL:HG22	2.42	0.44
46:BQ:71:ARG:O	46:BQ:75:ALA:CB	2.65	0.44
47:BR:12:ARG:C	47:BR:14:PRO:N	2.75	0.44
50:BU:63:ARG:O	50:BU:65:ILE:HG22	2.17	0.44
50:BU:81:ARG:CG	50:BU:84:LEU:HD11	2.47	0.44
51:BV:64:ARG:HG3	51:BV:64:ARG:HH11	1.82	0.44
55:CA:49:GLU:O	55:CA:49:GLU:HG2	2.16	0.44
55:CA:175:ASP:OD1	55:CA:176:HIS:CD2	2.70	0.44
55:CA:237:VAL:CG2	55:CA:276:ILE:HG21	2.48	0.44
55:CA:322:GLU:HG3	55:CA:379:GLU:HG3	1.99	0.44
55:CA:407:VAL:HG22	55:CA:436:ARG:HB3	1.99	0.44
55:CA:527:HIS:CE1	55:CA:531:ASN:HD21	2.34	0.44
1:AA:71:A:O2'	21:AU:5:TYR:CE2	2.67	0.44
1:AA:172:C:C2	1:AA:173:G:N7	2.85	0.44
1:AA:188:G:H5'	1:AA:1365:A:N3	2.32	0.44
1:AA:270:A:C5	1:AA:270(A):A:C8	3.05	0.44
1:AA:356:G:C3'	1:AA:357:A:C8	3.00	0.44
1:AA:447:A:C6	1:AA:473:G:C1'	3.01	0.44
1:AA:503:A:C2	1:AA:506:G:C2	3.06	0.44
1:AA:528:A:H2'	1:AA:529:A:OP1	2.17	0.44
1:AA:562:U:O2	1:AA:572:A:O4'	2.35	0.44
1:AA:649:G:C2	1:AA:650:C:H1'	2.52	0.44
1:AA:724:U:C2'	1:AA:725:G:C5'	2.88	0.44
1:AA:783:A:C6	1:AA:785:G:O4'	2.71	0.44
1:AA:819:A:C2'	1:AA:820:A:O4'	2.65	0.44
1:AA:858:U:H2'	1:AA:2268:A:N7	2.30	0.44
1:AA:864:G:C2'	1:AA:865:C:O4'	2.64	0.44
1:AA:872:A:N3	1:AA:872:A:H2'	2.33	0.44
1:AA:903:C:OP2	1:AA:903:C:C5	2.70	0.44
1:AA:972:G:C8	1:AA:973:A:C8	3.04	0.44
1:AA:995:C:P	18:AR:53:ARG:HH22	2.39	0.44
1:AA:1081:U:C6	1:AA:1081:U:O5'	2.71	0.44
1:AA:1155:A:C2	1:AA:1157:G:C1'	2.97	0.44
1:AA:1196:C:C2	1:AA:1197:G:C8	3.05	0.44
1:AA:1266:G:C2'	1:AA:1267:U:OP2	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1268:A:H2'	1:AA:1269:A:O4'	2.18	0.44
1:AA:1301:A:H2'	1:AA:1302:A:O5'	2.17	0.44
1:AA:1326:U:C6	1:AA:2010:G:N2	2.77	0.44
1:AA:1338:G:N2	1:AA:1393:A:H2	2.15	0.44
1:AA:1356:G:C4	1:AA:1357:U:C6	3.06	0.44
1:AA:1360:A:H2'	1:AA:1361:G:H5'	1.98	0.44
1:AA:1385:G:C6	1:AA:1386:C:N4	2.85	0.44
1:AA:1449:A:C4	1:AA:1529:A:C2	3.06	0.44
1:AA:1451:C:O2	1:AA:1451:C:C2'	2.65	0.44
1:AA:1472:A:H2'	1:AA:1473:G:O5'	2.17	0.44
1:AA:1529:A:H2'	1:AA:1530:G:O4'	2.17	0.44
1:AA:1535:U:C4	1:AA:1536:A:C6	3.06	0.44
1:AA:1660:C:C2'	1:AA:1661:G:O5'	2.65	0.44
1:AA:1672:C:C3'	1:AA:1673:U:C5'	2.92	0.44
1:AA:1681:G:H1'	1:AA:1763:G:H5'	1.99	0.44
1:AA:1704:G:N1	1:AA:1705:G:C4	2.84	0.44
1:AA:1754:C:C4	1:AA:1755:A:C5	3.05	0.44
1:AA:1806:C:H2'	1:AA:1807:G:C5'	2.47	0.44
1:AA:1807:G:N2	1:AA:1809:A:OP2	2.50	0.44
1:AA:1818:U:C4	4:AD:156:ALA:HB3	2.53	0.44
1:AA:1911:U:O5'	1:AA:1911:U:C6	2.70	0.44
1:AA:1980:G:C5	1:AA:1982:C:C4	3.05	0.44
1:AA:1993:U:H6	1:AA:1993:U:C3'	2.24	0.44
1:AA:2016:U:H1'	28:Ab:6:VAL:HG13	1.98	0.44
1:AA:2018:G:C1'	18:AR:34:LYS:HZ1	2.31	0.44
1:AA:2026:C:H2'	1:AA:2027:G:C5'	2.48	0.44
1:AA:2051:A:C2	1:AA:2614:A:N6	2.85	0.44
1:AA:2087:G:H5''	1:AA:2087:G:H8	1.83	0.44
1:AA:2092:U:P	1:AA:2199:A:H1'	2.57	0.44
1:AA:2259:G:H2'	1:AA:2260:C:H6	1.82	0.44
1:AA:2309:A:C6	1:AA:2310:A:C4	3.06	0.44
1:AA:2319:G:C4'	1:AA:2320:A:OP1	2.44	0.44
1:AA:2472:G:H1'	1:AA:2478:A:N6	2.32	0.44
1:AA:2526:G:O2'	32:Af:35:ARG:NH2	2.49	0.44
1:AA:2532:G:H4'	1:AA:2657:A:C4	2.53	0.44
1:AA:2547:U:C6	1:AA:2566:A:C2	3.05	0.44
1:AA:2562:U:O2'	12:AL:23:ARG:NH2	2.51	0.44
1:AA:2644:G:H1	1:AA:2645:G:H21	1.64	0.44
1:AA:2657:A:OP2	1:AA:2658:C:C5	2.70	0.44
1:AA:2673:G:C2'	1:AA:2674:G:H5'	2.48	0.44
1:AA:2813:A:H2'	1:AA:2814:C:O4'	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2820:A:OP1	15:AO:5:LYS:HE2	2.17	0.44
1:AA:2823:A:OP2	5:AE:113:PHE:CZ	2.71	0.44
2:AB:71:C:O2'	2:AB:72:G:H5'	2.16	0.44
2:AB:75:G:H21	23:AW:85:HIS:CE1	2.36	0.44
3:AC:64:LEU:CB	3:AC:188:ASN:HD21	2.30	0.44
3:AC:104:LEU:HA	3:AC:130:ILE:HG12	1.99	0.44
4:AD:136:ILE:CD1	4:AD:173:VAL:HG11	2.40	0.44
5:AE:2:LYS:CE	5:AE:83:ASP:HB2	2.45	0.44
5:AE:48:GLN:C	5:AE:77:ILE:HG13	2.42	0.44
5:AE:125:GLY:H	5:AE:136:ARG:CA	2.24	0.44
5:AE:172:VAL:O	5:AE:174:ASP:N	2.50	0.44
5:AE:176:ILE:O	5:AE:176:ILE:CG2	2.64	0.44
5:AE:178:GLU:HB3	5:AE:179:GLU:OE2	2.17	0.44
5:AE:188:VAL:O	5:AE:189:PRO:C	2.60	0.44
6:AF:65:TRP:O	6:AF:67:GLN:N	2.51	0.44
7:AG:59:GLU:O	7:AG:63:ILE:HB	2.18	0.44
7:AG:64:THR:HB	7:AG:102:PHE:CE2	2.53	0.44
7:AG:111:LEU:CD2	7:AG:178:PHE:HD2	2.31	0.44
8:AH:42:ARG:HB2	8:AH:53:GLU:CG	2.47	0.44
8:AH:52:VAL:HG22	8:AH:65:HIS:ND1	2.32	0.44
11:AK:23:LEU:HD23	11:AK:23:LEU:H	1.82	0.44
11:AK:86:PRO:O	11:AK:87:LEU:C	2.61	0.44
11:AK:102:ALA:O	11:AK:105:GLY:N	2.50	0.44
11:AK:117:PHE:CA	11:AK:120:LEU:HB3	2.42	0.44
12:AL:77:ILE:O	17:AQ:75:ILE:CD1	2.66	0.44
12:AL:112:MET:HA	12:AL:115:VAL:HG23	1.98	0.44
12:AL:122:LEU:HB2	17:AQ:71:GLY:HA3	1.95	0.44
13:AM:97:PRO:HB3	13:AM:102:ARG:HH21	1.80	0.44
13:AM:102:ARG:O	13:AM:108:LYS:HB2	2.17	0.44
14:AN:42:ILE:O	14:AN:47:ILE:HD11	2.18	0.44
15:AO:5:LYS:C	15:AO:5:LYS:CE	2.90	0.44
15:AO:45:ARG:HA	15:AO:95:THR:HG21	2.00	0.44
15:AO:52:ILE:CD1	15:AO:56:LYS:HG2	2.47	0.44
15:AO:70:LEU:N	15:AO:70:LEU:CD2	2.80	0.44
16:AP:13:ARG:NH1	16:AP:92:TYR:N	2.66	0.44
17:AQ:108:ARG:H	17:AQ:108:ARG:NH1	2.11	0.44
18:AR:93:LYS:O	19:AS:6:LYS:NZ	2.32	0.44
19:AS:5:VAL:CG2	19:AS:39:LEU:HA	2.42	0.44
19:AS:28:GLU:N	19:AS:29:PRO:HD2	2.32	0.44
20:AT:47:VAL:O	20:AT:48:ALA:C	2.60	0.44
20:AT:98:LYS:C	20:AT:98:LYS:HE2	2.42	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:2:GLU:OE2	23:AW:58:VAL:C	2.61	0.44
23:AW:95:PRO:O	23:AW:129:SER:C	2.60	0.44
23:AW:102:LEU:O	23:AW:123:ASP:O	2.36	0.44
25:AY:11:LEU:N	25:AY:11:LEU:CD1	2.81	0.44
26:AZ:8:LEU:HD12	26:AZ:31:LEU:C	2.40	0.44
27:Aa:59:PHE:HA	27:Aa:62:ARG:NE	2.33	0.44
28:Ab:33:CYS:C	28:Ab:35:GLU:N	2.74	0.44
28:Ab:51:TYR:CD2	28:Ab:55:ARG:CD	2.96	0.44
32:Af:8:LYS:O	32:Af:9:ARG:O	2.35	0.44
33:Ag:7:UNK:CA	33:Ag:147:UNK:CB	2.95	0.44
34:BA:8:A:H1'	38:BI:102:ALA:C	2.39	0.44
34:BA:122:G:C2	34:BA:123:C:C1'	3.00	0.44
34:BA:130:A:C6	50:BU:64:PRO:HG2	2.52	0.44
34:BA:181:G:O2'	34:BA:182:U:C6	2.70	0.44
34:BA:195:A:H1'	34:BA:223:U:H5'	1.99	0.44
34:BA:285:G:C6	34:BA:286:G:C5	3.06	0.44
34:BA:299:G:C2	34:BA:300:A:C6	3.05	0.44
34:BA:301:G:C2	34:BA:302:G:C4	3.05	0.44
34:BA:344:A:HO2'	34:BA:345:C:P	2.41	0.44
34:BA:409:G:N2	34:BA:410:G:O4'	2.50	0.44
34:BA:411:A:C6	34:BA:429:U:C4	3.06	0.44
34:BA:544:G:C2	34:BA:545:C:C2	3.05	0.44
34:BA:551:U:C5'	45:BP:119:LYS:NZ	2.61	0.44
34:BA:579:G:H2'	34:BA:580:U:H6	1.82	0.44
34:BA:590:C:OP1	41:BL:29:SER:CB	2.62	0.44
34:BA:723:U:N1	34:BA:723:U:O5'	2.51	0.44
34:BA:723:U:O5'	34:BA:723:U:C6	2.71	0.44
34:BA:857:C:H2'	34:BA:858:G:C5'	2.46	0.44
34:BA:874:G:H2'	34:BA:875:C:C5'	2.47	0.44
34:BA:1065:U:H5	34:BA:1190:G:N3	2.14	0.44
34:BA:1068:G:N2	34:BA:1191:A:C2	2.85	0.44
34:BA:1083:U:H3'	34:BA:1084:G:C8	2.52	0.44
34:BA:1102:A:C2'	34:BA:1103:C:O5'	2.65	0.44
34:BA:1142:G:H2'	34:BA:1143:G:C8	2.41	0.44
34:BA:1202:G:C4	47:BR:42:ILE:CD1	2.94	0.44
34:BA:1203:C:H2'	34:BA:1204:A:C8	2.51	0.44
34:BA:1210:C:H4'	34:BA:1214:C:H42	1.81	0.44
34:BA:1309:G:C5	34:BA:1330:U:O4	2.69	0.44
34:BA:1345:U:N3	34:BA:1377:A:N6	2.66	0.44
34:BA:1347:G:N2	34:BA:1373:G:H2'	2.33	0.44
34:BA:1368:G:O2'	34:BA:1369:C:H5'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:97:TRP:HE3	35:BF:172:ILE:HB	1.80	0.44
35:BF:106:LYS:O	35:BF:110:GLN:OE1	2.36	0.44
36:BG:186:PHE:CD1	36:BG:187:ALA:N	2.85	0.44
37:BH:119:GLN:CG	37:BH:123:HIS:CE1	3.00	0.44
37:BH:129:ASN:HD21	37:BH:145:GLU:HG2	1.82	0.44
38:BI:37:ARG:NH1	38:BI:112:LEU:HA	2.33	0.44
38:BI:71:LEU:O	38:BI:72:GLN:HG2	2.18	0.44
38:BI:112:LEU:HA	38:BI:112:LEU:HD22	1.78	0.44
38:BI:121:LYS:HB3	38:BI:121:LYS:HE3	1.74	0.44
39:BJ:14:LEU:HD11	39:BJ:18:GLN:HB3	1.99	0.44
40:BK:6:ARG:O	40:BK:7:ALA:HB3	2.17	0.44
40:BK:14:PRO:HG3	40:BK:21:VAL:HG13	1.99	0.44
40:BK:57:GLU:CB	40:BK:58:PRO:HD2	2.46	0.44
40:BK:71:PRO:HG2	40:BK:96:GLN:HA	1.98	0.44
40:BK:121:ALA:HB1	40:BK:125:MET:CE	2.48	0.44
40:BK:150:ALA:CA	44:BO:59:TYR:CG	2.99	0.44
41:BL:14:ARG:NH1	41:BL:14:ARG:CB	2.56	0.44
41:BL:68:ARG:O	41:BL:69:ARG:HB3	2.16	0.44
42:BM:11:LYS:HA	42:BM:108:VAL:HG11	1.98	0.44
43:BN:24:VAL:CG2	43:BN:34:VAL:HG11	2.42	0.44
43:BN:56:HIS:C	43:BN:58:ASP:H	2.24	0.44
43:BN:63:PHE:HA	47:BR:59:ALA:CB	2.48	0.44
44:BO:34:ASP:HB2	44:BO:35:PRO:CD	2.47	0.44
44:BO:81:ASP:OD1	44:BO:106:LYS:CD	2.64	0.44
44:BO:88:GLY:O	44:BO:90:GLY:N	2.50	0.44
45:BP:33:ARG:O	45:BP:84:LEU:CG	2.62	0.44
45:BP:78:GLN:N	45:BP:81:SER:OG	2.51	0.44
45:BP:88:GLY:O	45:BP:99:HIS:CD2	2.70	0.44
48:BS:63:ARG:HG3	48:BS:64:ARG:H	1.83	0.44
48:BS:69:TYR:O	48:BS:72:ARG:N	2.50	0.44
50:BU:18:THR:HG22	50:BU:43:LEU:CD2	2.31	0.44
50:BU:97:SER:CB	50:BU:104:LYS:H	2.30	0.44
51:BV:17:SER:HB2	51:BV:54:ARG:HH12	1.82	0.44
51:BV:31:LEU:N	51:BV:31:LEU:CD1	2.79	0.44
51:BV:42:ARG:C	51:BV:43:PHE:CD1	2.95	0.44
52:BW:25:LYS:C	52:BW:25:LYS:CD	2.82	0.44
52:BW:27:GLU:O	52:BW:28:LYS:HB2	2.17	0.44
52:BW:47:HIS:H	52:BW:62:ILE:HG23	1.82	0.44
55:CA:10:ILE:HD13	55:CA:21:LEU:CG	2.47	0.44
55:CA:175:ASP:OD1	55:CA:176:HIS:CE1	2.70	0.44
55:CA:207:MET:CE	55:CA:209:ILE:HA	2.45	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:310:PHE:C	55:CA:384:ARG:N	2.69	0.44
1:AA:55:G:H2'	1:AA:56:A:C8	2.53	0.44
1:AA:78:A:C2	1:AA:109:G:C2	3.05	0.44
1:AA:149:A:H2'	1:AA:150:C:C5'	2.41	0.44
1:AA:154:G:C6	1:AA:155:C:N4	2.86	0.44
1:AA:278:A:H2'	1:AA:279:C:C6	2.52	0.44
1:AA:288:C:O5'	1:AA:288:C:H6	2.01	0.44
1:AA:414:C:H2'	1:AA:415:A:H8	1.81	0.44
1:AA:481:G:N2	1:AA:507:A:C4	2.85	0.44
1:AA:499:U:C2'	1:AA:500:G:H5'	2.48	0.44
1:AA:588:U:H1'	6:AF:90:PHE:CD2	2.52	0.44
1:AA:627:A:N6	1:AA:637:A:H1'	2.26	0.44
1:AA:629:G:OP1	31:Ae:17:THR:HG22	2.17	0.44
1:AA:675:A:C5	1:AA:676:A:N1	2.86	0.44
1:AA:739:G:O3'	1:AA:1784:A:C2	2.68	0.44
1:AA:747:U:O2	1:AA:2613:U:C4	2.71	0.44
1:AA:754:C:H2'	1:AA:754:C:O2	2.18	0.44
1:AA:850:C:O2	1:AA:851:U:C6	2.70	0.44
1:AA:879:G:N1	1:AA:880:G:C6	2.85	0.44
1:AA:902:C:O3'	1:AA:903:C:C6	2.71	0.44
1:AA:919:G:C4	1:AA:920:G:N7	2.86	0.44
1:AA:971:C:O2	1:AA:972:G:H1'	2.17	0.44
1:AA:1007:C:H4'	11:AK:108:PRO:CG	2.47	0.44
1:AA:1055:G:H4'	9:AI:32:LEU:C	2.41	0.44
1:AA:1092:C:H6	1:AA:1092:C:C3'	2.28	0.44
1:AA:1176:G:H3'	1:AA:1177:A:O4'	2.18	0.44
1:AA:1194:A:C6	1:AA:1195:G:C5	3.05	0.44
1:AA:1316:U:H2'	1:AA:1317:A:C8	2.53	0.44
1:AA:1321:A:N6	1:AA:1322:A:C2	2.82	0.44
1:AA:1342:A:C5	1:AA:1601:G:O6	2.71	0.44
1:AA:1442:G:N1	1:AA:1443:G:C6	2.86	0.44
1:AA:1444(A):A:C8	1:AA:1460:A:C2'	3.00	0.44
1:AA:1444(A):A:H2'	1:AA:1460:A:O2'	2.17	0.44
1:AA:1552:G:N3	1:AA:1552:G:H2'	2.32	0.44
1:AA:1784:A:C1'	1:AA:1785:A:N7	2.80	0.44
1:AA:1926:U:C2	1:AA:1928:A:OP2	2.70	0.44
1:AA:2009:G:O3'	20:AT:41:LYS:HG2	2.17	0.44
1:AA:2029:G:N1	1:AA:2033:A:OP2	2.44	0.44
1:AA:2146:C:P	1:AA:2147:G:OP2	2.75	0.44
1:AA:2180:U:H2'	1:AA:2181:G:O4'	2.18	0.44
1:AA:2183:C:O2	1:AA:2183:C:C2'	2.64	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2199:A:C2	1:AA:2205:C:N1	2.86	0.44
1:AA:2213:U:H5'	1:AA:2215:G:C6	2.49	0.44
1:AA:2239:G:N3	1:AA:2239:G:H2'	2.32	0.44
1:AA:2314:C:C2	1:AA:2315:G:C8	3.06	0.44
1:AA:2414:G:C6	1:AA:2415:G:N7	2.86	0.44
1:AA:2450:A:C2	1:AA:2451:A:N3	2.85	0.44
1:AA:2491:U:C5	1:AA:2492:U:C5'	3.00	0.44
1:AA:2655:G:N3	1:AA:2655:G:H2'	2.33	0.44
1:AA:2695:C:O2	1:AA:2696:U:C5	2.70	0.44
1:AA:2786:U:N3	1:AA:2787:C:C5	2.86	0.44
1:AA:2809:A:OP1	1:AA:2809:A:C8	2.70	0.44
1:AA:2822:G:H5''	5:AE:159:HIS:CE1	2.52	0.44
1:AA:2852:G:H2'	1:AA:2853:C:H6	1.73	0.44
1:AA:2866:U:O2	1:AA:2868:A:H1'	2.16	0.44
2:AB:71:C:C3'	2:AB:72:G:C5'	2.95	0.44
2:AB:77:U:H5'	23:AW:84:GLU:HB3	1.99	0.44
2:AB:116:G:H5'	16:AP:53:SER:HA	1.98	0.44
3:AC:45:ALA:CB	3:AC:211:SER:O	2.65	0.44
5:AE:23:VAL:CG2	5:AE:184:VAL:HG23	2.38	0.44
5:AE:76:ARG:O	5:AE:76:ARG:HG3	2.17	0.44
5:AE:115:GLY:O	5:AE:118:LYS:N	2.50	0.44
5:AE:178:GLU:O	5:AE:179:GLU:C	2.59	0.44
6:AF:11:VAL:CG2	6:AF:126:VAL:HG12	2.47	0.44
7:AG:49:ASP:H	7:AG:53:LEU:HD13	1.80	0.44
7:AG:80:PHE:O	7:AG:82:LEU:N	2.47	0.44
10:AJ:52:ILE:HG13	10:AJ:76:TYR:HB2	1.98	0.44
10:AJ:87:GLY:C	10:AJ:89:HIS:N	2.74	0.44
10:AJ:108:ALA:HB2	10:AJ:111:LYS:HB2	1.95	0.44
11:AK:27:ALA:C	11:AK:29:LYS:N	2.74	0.44
11:AK:109:LYS:HZ2	11:AK:109:LYS:HA	1.83	0.44
14:AN:37:LEU:HB3	14:AN:38:GLU:OE1	2.18	0.44
14:AN:86:GLY:C	14:AN:88:GLY:H	2.26	0.44
14:AN:96:VAL:HG12	14:AN:98:LYS:HZ1	1.80	0.44
14:AN:125:LEU:HD23	14:AN:125:LEU:H	1.83	0.44
16:AP:10:ARG:O	16:AP:11:LYS:C	2.60	0.44
16:AP:10:ARG:C	16:AP:12:PHE:N	2.76	0.44
16:AP:13:ARG:NH2	16:AP:89:ARG:O	2.51	0.44
16:AP:17:ARG:HA	16:AP:20:ARG:HG3	1.99	0.44
16:AP:19:LYS:C	16:AP:19:LYS:CD	2.91	0.44
16:AP:70:GLY:C	16:AP:104:GLY:HA3	2.43	0.44
17:AQ:104:ASN:C	17:AQ:108:ARG:HH12	2.24	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:89:GLU:O	18:AR:90:VAL:HG23	2.18	0.44
18:AR:89:GLU:C	18:AR:90:VAL:CG2	2.90	0.44
19:AS:5:VAL:O	19:AS:6:LYS:HB2	2.17	0.44
20:AT:86:LEU:C	20:AT:94:ASP:OD2	2.60	0.44
22:AV:53:PRO:HG2	22:AV:56:PRO:HA	1.99	0.44
22:AV:93:GLY:C	22:AV:95:LYS:N	2.75	0.44
23:AW:47:VAL:O	23:AW:50:GLN:N	2.50	0.44
25:AY:36:ILE:CG2	25:AY:37:GLY:H	2.17	0.44
26:AZ:16:PRO:O	26:AZ:17:LYS:C	2.61	0.44
27:Aa:5:ILE:CB	27:Aa:7:PRO:HD2	2.46	0.44
27:Aa:65:ASP:CA	27:Aa:68:ARG:CZ	2.95	0.44
28:Ab:4:HIS:CD2	28:Ab:4:HIS:O	2.70	0.44
29:Ac:13:CYS:HA	29:Ac:23:THR:O	2.18	0.44
30:Ad:47:ARG:CG	30:Ad:48:LYS:N	2.78	0.44
31:Ae:26:LYS:HB2	31:Ae:44:LYS:NZ	2.31	0.44
31:Ae:34:TRP:HA	31:Ae:36:LYS:HB2	2.00	0.44
34:BA:15:G:H2'	34:BA:16:A:C8	2.53	0.44
34:BA:118:U:C4	34:BA:288:A:H2'	2.52	0.44
34:BA:183:G:H2'	34:BA:184:G:O4'	2.17	0.44
34:BA:185:A:O2'	34:BA:186:C:H5'	2.18	0.44
34:BA:285:G:C6	34:BA:286:G:N7	2.86	0.44
34:BA:323:U:C5	34:BA:324:G:C4	2.98	0.44
34:BA:397:A:H2'	34:BA:399:G:OP2	2.17	0.44
34:BA:399:G:C6	34:BA:400:C:C4	3.05	0.44
34:BA:416:G:C2	34:BA:417:C:C2	3.05	0.44
34:BA:448:A:OP2	34:BA:485:G:N2	2.50	0.44
34:BA:483:C:OP2	34:BA:483:C:C6	2.71	0.44
34:BA:548:G:H2'	34:BA:549:C:O5'	2.18	0.44
34:BA:568:G:N3	34:BA:574:A:H2	2.16	0.44
34:BA:571:U:H5'	34:BA:572:A:OP2	2.17	0.44
34:BA:581:G:O6	34:BA:758:G:N7	2.51	0.44
34:BA:674:G:H4'	51:BV:81:PHE:HZ	1.82	0.44
34:BA:701:C:H1'	34:BA:703:G:C6	2.53	0.44
34:BA:737:A:C2'	34:BA:738:C:O5'	2.66	0.44
34:BA:754:C:O5'	48:BS:72:ARG:NH2	2.50	0.44
34:BA:818:G:H3'	34:BA:820:U:OP2	2.17	0.44
34:BA:895:G:N2	34:BA:896:C:C2	2.85	0.44
34:BA:901:A:C2'	34:BA:902:G:O5'	2.65	0.44
34:BA:915:A:H2'	34:BA:916:G:C4'	2.48	0.44
34:BA:950:U:H1'	34:BA:971:G:C4	2.53	0.44
34:BA:976:G:C6	34:BA:1362:C:N4	2.85	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1109:C:C6	34:BA:1110:A:C8	3.05	0.44
34:BA:1191:A:N3	34:BA:1191:A:C2'	2.79	0.44
34:BA:1300:G:H2'	34:BA:1301:U:OP2	2.18	0.44
34:BA:1361:G:C8	34:BA:1362:C:C5	3.06	0.44
34:BA:1394:A:C8	34:BA:1501:C:H1'	2.53	0.44
34:BA:1424:C:H2'	34:BA:1425:U:C6	2.52	0.44
34:BA:1431:C:O2	34:BA:1432:G:C1'	2.66	0.44
34:BA:1486:G:C4	34:BA:1487:G:O4'	2.45	0.44
35:BF:119:GLU:CA	35:BF:142:LEU:CD1	2.95	0.44
35:BF:153:ARG:O	35:BF:153:ARG:CZ	2.65	0.44
35:BF:167:PRO:O	35:BF:174:VAL:HG21	2.17	0.44
36:BG:10:PHE:C	36:BG:11:ARG:NE	2.75	0.44
36:BG:47:LEU:CD1	36:BG:49:SER:HB3	2.47	0.44
37:BH:20:TYR:HA	37:BH:26:CYS:C	2.39	0.44
37:BH:29:PRO:O	37:BH:30:LYS:HB2	2.18	0.44
37:BH:130:GLY:C	37:BH:131:ARG:HH11	2.25	0.44
38:BI:7:GLU:OE1	38:BI:37:ARG:NH2	2.50	0.44
38:BI:56:GLN:HE21	38:BI:56:GLN:CA	2.30	0.44
38:BI:78:HIS:CD2	38:BI:78:HIS:N	2.72	0.44
39:BJ:21:LEU:O	39:BJ:24:GLU:HG3	2.17	0.44
39:BJ:98:LEU:HD23	51:BV:28:GLU:HA	1.99	0.44
39:BJ:100:ASN:CG	51:BV:27:GLY:HA2	2.42	0.44
40:BK:31:MET:C	40:BK:32:ARG:HG2	2.42	0.44
40:BK:74:GLU:CA	40:BK:145:ALA:HB1	2.46	0.44
40:BK:94:ARG:HH11	40:BK:94:ARG:CG	2.27	0.44
40:BK:106:GLN:O	40:BK:107:ALA:C	2.60	0.44
41:BL:101:PRO:HG2	41:BL:102:ARG:N	2.32	0.44
41:BL:112:LEU:CD1	41:BL:133:LEU:HD23	2.48	0.44
42:BM:27:THR:HA	42:BM:31:GLN:O	2.17	0.44
42:BM:75:ASP:O	42:BM:76:ALA:C	2.60	0.44
42:BM:114:TYR:O	42:BM:116:LYS:NZ	2.47	0.44
43:BN:40:LEU:O	43:BN:42:THR:N	2.51	0.44
44:BO:31:THR:HG23	44:BO:42:TRP:HB3	1.98	0.44
44:BO:65:ALA:O	44:BO:68:ALA:HB3	2.18	0.44
44:BO:98:LEU:O	44:BO:99:GLN:C	2.60	0.44
45:BP:36:VAL:O	45:BP:59:ARG:O	2.36	0.44
45:BP:102:ARG:HH11	45:BP:110:VAL:CG1	2.31	0.44
45:BP:125:PRO:O	45:BP:127:GLU:N	2.46	0.44
46:BQ:27:LYS:HA	46:BQ:27:LYS:HD3	1.57	0.44
46:BQ:52:GLU:CA	46:BQ:55:ARG:NE	2.80	0.44
46:BQ:67:GLU:O	46:BQ:69:GLU:N	2.42	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:29:ARG:HD2	47:BR:42:ILE:HD11	1.98	0.44
48:BS:6:GLU:O	48:BS:8:LYS:N	2.49	0.44
48:BS:87:ILE:CG2	48:BS:88:ARG:N	2.81	0.44
49:BT:10:GLY:CA	49:BT:14:ASN:ND2	2.81	0.44
50:BU:7:THR:OG1	50:BU:57:VAL:C	2.61	0.44
51:BV:21:LYS:C	51:BV:55:ARG:HH12	2.26	0.44
52:BW:10:PHE:O	52:BW:11:VAL:HG22	2.17	0.44
52:BW:33:THR:HG21	52:BW:49:ILE:CD1	2.43	0.44
55:CA:2:ILE:HG21	55:CA:199:VAL:CG2	2.23	0.44
55:CA:95:VAL:CG2	55:CA:123:PRO:CA	2.83	0.44
55:CA:213:ASP:O	55:CA:221:ILE:HD13	2.17	0.44
55:CA:294:VAL:C	55:CA:295:GLU:CG	2.91	0.44
55:CA:536:ASN:CG	55:CA:537:CYS:H	2.25	0.44
1:AA:14:A:C8	1:AA:15:G:C8	3.05	0.44
1:AA:28:A:C2	1:AA:29:U:C4'	3.01	0.44
1:AA:60:G:C8	1:AA:63:U:C5	3.06	0.44
1:AA:64:A:C2	1:AA:65:C:C1'	3.00	0.44
1:AA:152:G:C2	1:AA:153:C:C2	3.05	0.44
1:AA:233:A:C2'	1:AA:234:C:O5'	2.64	0.44
1:AA:514:A:O2'	1:AA:515:A:H5'	2.17	0.44
1:AA:535:C:O2'	18:AR:53:ARG:HD2	2.18	0.44
1:AA:558:G:C5'	11:AK:109:LYS:HG2	2.47	0.44
1:AA:566:U:O2'	1:AA:808:G:OP1	2.35	0.44
1:AA:586:A:H5'	6:AF:89:VAL:CB	2.47	0.44
1:AA:620:G:O4'	1:AA:620:G:OP2	2.35	0.44
1:AA:627:A:H8	13:AM:75:ILE:CG2	2.31	0.44
1:AA:652:C:O5'	1:AA:652:C:C6	2.63	0.44
1:AA:670:A:C2'	13:AM:41:ARG:CZ	2.87	0.44
1:AA:702:G:C2'	1:AA:703:U:C5'	2.94	0.44
1:AA:776:G:N9	1:AA:793:A:C2	2.86	0.44
1:AA:884:C:C1'	1:AA:885:C:P	2.87	0.44
1:AA:973:A:H3'	1:AA:973:A:C8	2.53	0.44
1:AA:999:U:O2	1:AA:1157:G:N2	2.50	0.44
1:AA:1031:G:H5'	1:AA:1032:A:OP2	2.18	0.44
1:AA:1038:C:H5'	1:AA:1039:G:P	2.57	0.44
1:AA:1062:G:H2'	1:AA:1065:U:O4	2.18	0.44
1:AA:1137:G:C4'	11:AK:105:GLY:HA2	2.47	0.44
1:AA:1155:A:H3'	1:AA:1155:A:P	2.57	0.44
1:AA:1171:G:C8	1:AA:1173:G:H4'	2.52	0.44
1:AA:1202:C:N3	1:AA:1203:G:O2'	2.32	0.44
1:AA:1298:C:OP2	1:AA:1639:U:OP2	2.35	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1471:A:N7	1:AA:1521:G:C2	2.86	0.44
1:AA:1544:C:O2'	1:AA:1545:A:H4'	2.18	0.44
1:AA:1563:G:C6	1:AA:1564:C:C4	3.05	0.44
1:AA:1568:G:P	4:AD:61:LEU:CG	3.06	0.44
1:AA:1624:G:C4	1:AA:1625:C:N4	2.85	0.44
1:AA:1661:G:C4	1:AA:2000:G:C2	3.06	0.44
1:AA:1718:G:N7	1:AA:1725:G:N7	2.66	0.44
1:AA:1826:G:N2	1:AA:1970:A:H2	2.15	0.44
1:AA:1995:U:C6	1:AA:1995:U:C3'	3.01	0.44
1:AA:2020:A:OP2	18:AR:27:LEU:CD2	2.65	0.44
1:AA:2051:A:C5	1:AA:2614:A:N6	2.85	0.44
1:AA:2094:G:C2	1:AA:2196:C:N3	2.86	0.44
1:AA:2106:G:H2'	1:AA:2107:C:H6	1.83	0.44
1:AA:2284:C:H5''	29:Ac:9:LEU:CG	2.48	0.44
1:AA:2296:U:C4	16:AP:5:THR:HG23	2.53	0.44
1:AA:2320:A:H8	1:AA:2320:A:P	2.36	0.44
1:AA:2325:G:C8	1:AA:2326:C:C5	3.05	0.44
1:AA:2427:C:C2'	1:AA:2428:G:OP2	2.66	0.44
1:AA:2459:A:C2	1:AA:2492:U:C4	3.02	0.44
1:AA:2471:C:H2'	1:AA:2472:G:H5'	1.99	0.44
1:AA:2519:U:O2	1:AA:2519:U:C2'	2.63	0.44
1:AA:2616:C:C2	1:AA:2617:C:C5	3.06	0.44
1:AA:2642:G:C2	1:AA:2773:C:C2	3.05	0.44
1:AA:2648:C:C3'	1:AA:2649:U:C6	3.01	0.44
1:AA:2705:A:HO2'	1:AA:2706:G:P	2.41	0.44
1:AA:2749:A:N7	1:AA:2750:A:N7	2.66	0.44
1:AA:2776:A:C5	1:AA:2781:A:N7	2.85	0.44
1:AA:2799:A:C1'	1:AA:2802:G:C6	3.01	0.44
1:AA:2801:A:OP1	1:AA:2802:G:C8	2.70	0.44
1:AA:2810:A:HO2'	5:AE:61:ARG:NH1	2.16	0.44
1:AA:2851:A:N1	1:AA:2852:G:C4	2.85	0.44
1:AA:2876:G:C2	1:AA:2877:G:C5	3.06	0.44
3:AC:59:ARG:O	3:AC:199:HIS:CD2	2.71	0.44
3:AC:68:LEU:HD23	3:AC:68:LEU:C	2.41	0.44
3:AC:223:ARG:CG	3:AC:224:ILE:N	2.80	0.44
4:AD:142:VAL:CB	4:AD:192:THR:O	2.66	0.44
4:AD:145:VAL:HG13	4:AD:191:ALA:CB	2.39	0.44
4:AD:264:LYS:HB2	4:AD:265:PRO:CD	2.47	0.44
5:AE:6:GLY:O	5:AE:26:ILE:HG22	2.17	0.44
7:AG:18:GLU:HB3	7:AG:19:LEU:HD12	1.98	0.44
7:AG:27:ASN:OD1	7:AG:27:ASN:O	2.36	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:32:PRO:HB2	7:AG:163:ALA:CB	2.48	0.44
7:AG:33:ARG:HH12	7:AG:34:LEU:CA	2.31	0.44
7:AG:75:LYS:CB	7:AG:84:LYS:CB	2.95	0.44
8:AH:15:VAL:CG2	8:AH:16:SER:N	2.81	0.44
8:AH:43:VAL:HG13	8:AH:44:VAL:H	1.82	0.44
8:AH:124:GLU:O	8:AH:131:VAL:HG22	2.17	0.44
10:AJ:17:ALA:C	10:AJ:38:VAL:O	2.60	0.44
11:AK:22:THR:HG21	11:AK:61:ARG:NH1	2.32	0.44
11:AK:74:ARG:HH11	11:AK:76:SER:HB2	1.83	0.44
11:AK:123:TYR:HB2	11:AK:129:PRO:HG3	2.00	0.44
12:AL:16:ALA:HB1	12:AL:45:GLU:HB2	1.98	0.44
12:AL:80:ASP:OD2	12:AL:82:ASN:ND2	2.48	0.44
13:AM:55:ARG:CA	13:AM:55:ARG:NH1	2.80	0.44
13:AM:85:LEU:HD23	13:AM:98:GLU:CD	2.43	0.44
13:AM:88:LEU:HG	13:AM:124:LYS:CE	2.46	0.44
13:AM:99:LEU:HD22	13:AM:101:VAL:CG1	2.45	0.44
14:AN:35:VAL:O	14:AN:35:VAL:CG1	2.66	0.44
14:AN:75:THR:CG2	14:AN:77:LYS:CD	2.94	0.44
14:AN:106:VAL:CG2	14:AN:107:ALA:N	2.53	0.44
14:AN:130:LYS:HE3	14:AN:131:ILE:CA	2.47	0.44
15:AO:34:ILE:O	15:AO:113:LEU:HD22	2.17	0.44
15:AO:66:VAL:O	15:AO:69:ASP:N	2.50	0.44
16:AP:11:LYS:HA	16:AP:14:VAL:CB	2.47	0.44
16:AP:70:GLY:CA	16:AP:73:LEU:HD22	2.42	0.44
16:AP:73:LEU:CA	16:AP:76:LYS:HD2	2.44	0.44
17:AQ:8:LYS:C	17:AQ:11:GLU:OE1	2.60	0.44
18:AR:106:PHE:O	18:AR:110:VAL:HG23	2.17	0.44
19:AS:40:LEU:HD11	19:AS:55:ALA:CA	2.41	0.44
20:AT:2:GLU:OE1	20:AT:2:GLU:HA	2.17	0.44
20:AT:40:ASN:OD1	20:AT:40:ASN:C	2.61	0.44
20:AT:49:LYS:HA	20:AT:49:LYS:HE2	2.00	0.44
22:AV:22:GLY:HA3	22:AV:73:ARG:CZ	2.38	0.44
23:AW:17:ALA:O	23:AW:20:ARG:HB3	2.16	0.44
23:AW:24:LEU:CB	23:AW:41:LEU:HD21	2.20	0.44
23:AW:103:ARG:O	23:AW:138:GLU:HB3	2.17	0.44
23:AW:118:GLN:NE2	23:AW:172:ALA:HB1	2.33	0.44
25:AY:27:LEU:CG	25:AY:48:LEU:HD23	2.44	0.44
26:AZ:17:LYS:HA	26:AZ:20:LYS:CD	2.47	0.44
26:AZ:55:ARG:NH1	26:AZ:55:ARG:CG	2.81	0.44
28:Ab:8:LYS:C	28:Ab:9:LYS:CG	2.89	0.44
30:Ad:8:ASN:CG	30:Ad:10:ARG:HB2	2.41	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ae:1:MET:H2	31:Ae:2:PRO:CD	2.28	0.44
31:Ae:1:MET:H1	31:Ae:1:MET:HE2	1.82	0.44
31:Ae:5:LYS:HA	31:Ae:59:LYS:C	2.42	0.44
34:BA:108:G:C5'	34:BA:109:A:H5''	2.36	0.44
34:BA:119:A:H62	34:BA:287:U:H3	1.66	0.44
34:BA:124:G:C6	34:BA:125:U:N3	2.86	0.44
34:BA:148:G:O2'	34:BA:149:A:H5'	2.17	0.44
34:BA:160:A:C1'	34:BA:344:A:H62	2.31	0.44
34:BA:166:G:C2'	34:BA:167:G:O5'	2.66	0.44
34:BA:187:C:N3	34:BA:188:U:O2	2.51	0.44
34:BA:278:G:C4	50:BU:95:TYR:CE2	3.04	0.44
34:BA:292:G:C2	34:BA:309:G:N3	2.86	0.44
34:BA:413:G:H22	34:BA:428:G:HO2'	1.62	0.44
34:BA:563:A:O2'	34:BA:566:G:H2'	2.17	0.44
34:BA:621:A:N6	34:BA:622:A:N6	2.65	0.44
34:BA:665:A:C8	34:BA:725:G:C2	3.06	0.44
34:BA:685:G:O5'	34:BA:685:G:H8	2.01	0.44
34:BA:689:C:C6	34:BA:690:G:C8	3.05	0.44
34:BA:715:A:C4'	34:BA:777:A:N6	2.81	0.44
34:BA:787:A:H2'	34:BA:787:A:N3	2.33	0.44
34:BA:873:A:C4'	34:BA:874:G:OP2	2.65	0.44
34:BA:897:C:C2'	34:BA:898:G:O5'	2.65	0.44
34:BA:953:G:C2'	34:BA:954:G:O5'	2.65	0.44
34:BA:1025:U:O2	34:BA:1026:G:O6	2.36	0.44
34:BA:1084:G:H2'	34:BA:1085:U:H6	1.77	0.44
34:BA:1164:G:H2'	34:BA:1165:C:C5'	2.48	0.44
34:BA:1241:G:C4	34:BA:1242:C:C5	3.06	0.44
34:BA:1242:C:N3	34:BA:1243:C:C5	2.85	0.44
34:BA:1252:A:N6	34:BA:1253:G:C6	2.85	0.44
34:BA:1343:G:C2	34:BA:1344:C:C2	3.06	0.44
34:BA:1424:C:C2'	34:BA:1425:U:O5'	2.66	0.44
34:BA:1433:A:O2'	34:BA:1434:A:H5'	2.17	0.44
34:BA:1438:G:O6	34:BA:1464:G:C6	2.71	0.44
34:BA:1480:G:C2'	34:BA:1481:U:C5'	2.95	0.44
34:BA:1519:A:C3'	34:BA:1520:G:H5'	2.47	0.44
35:BF:111:ARG:O	35:BF:114:ARG:HG3	2.18	0.44
35:BF:152:PHE:HZ	35:BF:155:LEU:O	2.01	0.44
35:BF:218:ALA:O	35:BF:221:LEU:N	2.51	0.44
37:BH:38:TYR:HB2	37:BH:39:PRO:CD	2.41	0.44
37:BH:61:LYS:HA	37:BH:203:VAL:HG13	2.00	0.44
37:BH:92:VAL:O	37:BH:96:LEU:HG	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:114:ARG:CG	37:BH:114:ARG:NH1	2.76	0.44
37:BH:133:VAL:HG21	37:BH:138:TYR:HE1	1.83	0.44
37:BH:196:LEU:HA	37:BH:197:PRO:HD2	1.86	0.44
39:BJ:41:GLU:O	39:BJ:42:GLU:HB3	2.16	0.44
39:BJ:54:LYS:HD2	39:BJ:54:LYS:N	2.31	0.44
39:BJ:94:GLN:CB	51:BV:32:ARG:NH2	2.81	0.44
40:BK:29:LYS:HD2	40:BK:102:ARG:HA	1.98	0.44
40:BK:65:ALA:HA	40:BK:68:ASN:HD22	1.83	0.44
40:BK:126:ASP:CA	40:BK:131:LYS:HG3	2.47	0.44
41:BL:9:MET:HE3	41:BL:13:ILE:HD11	1.99	0.44
41:BL:26:VAL:O	41:BL:58:TYR:CD1	2.70	0.44
42:BM:49:PRO:CB	42:BM:82:ALA:HB2	2.42	0.44
43:BN:43:ARG:HG3	43:BN:44:VAL:N	2.33	0.44
44:BO:13:GLN:HA	44:BO:76:GLY:CA	2.48	0.44
46:BQ:19:LEU:CD1	46:BQ:30:ALA:HB2	2.47	0.44
46:BQ:90:LEU:HA	46:BQ:90:LEU:HD23	1.89	0.44
49:BT:59:TRP:O	49:BT:61:SER:N	2.51	0.44
51:BV:67:ALA:O	51:BV:68:LYS:C	2.60	0.44
52:BW:15:LEU:HD23	52:BW:15:LEU:N	2.32	0.44
55:CA:51:GLU:CD	55:CA:52:ARG:N	2.75	0.44
55:CA:84:GLU:HG3	55:CA:85:VAL:H	1.80	0.44
55:CA:89:MET:HE3	55:CA:119:TYR:CE2	2.52	0.44
55:CA:107:PRO:O	55:CA:110:ARG:N	2.51	0.44
55:CA:167:ALA:HB2	57:CA:701:GCP:N2	2.33	0.44
55:CA:185:PRO:CD	55:CA:186:LEU:H	2.31	0.44
55:CA:215:ASN:HD22	55:CA:218:VAL:CG2	2.20	0.44
55:CA:322:GLU:HB2	55:CA:323:GLY:CA	2.48	0.44
55:CA:338:GLU:HG3	55:CA:345:LEU:CD2	2.48	0.44
55:CA:374:ARG:HG2	55:CA:581:THR:O	2.18	0.44
1:AA:71:A:C2'	1:AA:72:U:OP2	2.65	0.44
1:AA:84:A:H5'	1:AA:85:G:OP1	2.17	0.44
1:AA:87:C:O2'	25:AY:46:ARG:NH1	2.50	0.44
1:AA:228:A:N6	1:AA:230:U:C2	2.86	0.44
1:AA:228:A:C2'	1:AA:229:A:H5'	2.36	0.44
1:AA:233:A:N7	1:AA:234:C:C5	2.86	0.44
1:AA:234:C:N4	1:AA:430:G:N2	2.43	0.44
1:AA:266:G:C2	1:AA:267:C:H1'	2.53	0.44
1:AA:300:A:C8	1:AA:300:A:H3'	2.53	0.44
1:AA:383:U:O2	1:AA:385:C:N4	2.43	0.44
1:AA:454:A:C8	1:AA:454:A:C3'	3.01	0.44
1:AA:487:C:C6	1:AA:487:C:O5'	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:523:C:H2'	1:AA:524:U:O4'	2.18	0.44
1:AA:552:G:O2'	1:AA:553:U:C5'	2.65	0.44
1:AA:568:U:H2'	1:AA:570:G:H8	1.75	0.44
1:AA:573:G:C2'	1:AA:574:C:H5''	2.46	0.44
1:AA:602:G:N2	1:AA:655:A:C3'	2.80	0.44
1:AA:609:A:N6	1:AA:619:G:H21	2.16	0.44
1:AA:734:A:C2	1:AA:735:A:C1'	3.01	0.44
1:AA:740:U:HO2'	1:AA:741:G:P	2.28	0.44
1:AA:771:G:C6	1:AA:772:C:C4	3.06	0.44
1:AA:842:G:C6	1:AA:843:G:C5	3.06	0.44
1:AA:968:G:C6	1:AA:969:U:C4	3.06	0.44
1:AA:983:A:C2	1:AA:984:A:N1	2.85	0.44
1:AA:1061:U:OP2	1:AA:1061:U:C6	2.70	0.44
1:AA:1080:C:H5''	10:AJ:128:ALA:HB1	0.46	0.44
1:AA:1203:G:O6	1:AA:1240:U:N1	2.35	0.44
1:AA:1264:G:N7	1:AA:1265:A:C5	2.85	0.44
1:AA:1287:A:H8	15:AO:104:ARG:HH11	1.65	0.44
1:AA:1325:G:H21	20:AT:86:LEU:CD1	2.18	0.44
1:AA:1366:A:N3	1:AA:1366:A:H2'	2.33	0.44
1:AA:1419:A:H3'	1:AA:1420:U:O4'	2.18	0.44
1:AA:1518:C:N3	1:AA:1519:G:C1'	2.81	0.44
1:AA:1591:G:N1	1:AA:1592:C:C4	2.86	0.44
1:AA:1606:G:H4'	1:AA:1608:A:C2	2.52	0.44
1:AA:1667:G:O6	1:AA:1992:G:OP2	2.36	0.44
1:AA:1690:A:N6	1:AA:1697:G:C2	2.85	0.44
1:AA:1742:C:OP2	1:AA:1742:C:H6	2.01	0.44
1:AA:1769:G:C6	1:AA:1984:G:O6	2.71	0.44
1:AA:1791:A:P	4:AD:213:ARG:HD3	2.58	0.44
1:AA:1817:G:H2'	1:AA:1818:U:H5'	1.98	0.44
1:AA:1821:A:N6	1:AA:1822:G:C6	2.85	0.44
1:AA:1926:U:O2	1:AA:1929:G:C2	2.71	0.44
1:AA:1947:C:N3	1:AA:1948:G:N7	2.64	0.44
1:AA:1960:A:N3	34:BA:1483:A:H1'	2.33	0.44
1:AA:1992:G:N2	1:AA:1995:U:C5	2.83	0.44
1:AA:2007:C:H2'	1:AA:2008:C:O5'	2.18	0.44
1:AA:2046:G:C2	1:AA:2047:U:C4	3.06	0.44
1:AA:2090:G:C6	1:AA:2230:G:C6	3.05	0.44
1:AA:2114:A:C6	1:AA:2170:A:N6	2.86	0.44
1:AA:2153:G:O2'	1:AA:2154:G:H5'	2.18	0.44
1:AA:2311:A:C2	7:AG:45:GLU:OE1	2.71	0.44
1:AA:2348:U:C2'	1:AA:2349:G:O5'	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2349:G:C3'	1:AA:2350:C:C5'	2.90	0.44
1:AA:2358:G:N2	1:AA:2359:C:H1'	2.33	0.44
1:AA:2373:G:C4	1:AA:2374:C:C4	3.06	0.44
1:AA:2507:C:H4'	1:AA:2573:C:N4	2.32	0.44
1:AA:2520:C:C5	1:AA:2567:G:N9	2.85	0.44
1:AA:2532:G:H2'	1:AA:2533:A:C8	2.51	0.44
1:AA:2572:A:C5'	1:AA:2573:C:OP1	2.65	0.44
1:AA:2607:G:N3	1:AA:2608:G:O4'	2.51	0.44
1:AA:2636:U:P	5:AE:78:LEU:HD12	2.58	0.44
1:AA:2674:G:C6	1:AA:2675:A:N6	2.86	0.44
1:AA:2788:C:H4'	1:AA:2810:A:C5'	2.37	0.44
1:AA:2820:A:OP1	15:AO:5:LYS:CE	2.66	0.44
1:AA:2820:A:N7	5:AE:191:PRO:HB3	2.33	0.44
1:AA:2827:C:H2'	1:AA:2828:C:H5'	2.00	0.44
1:AA:2847:U:C5'	17:AQ:99:LEU:HD12	2.48	0.44
1:AA:2848:G:N2	1:AA:2849:U:O2	2.51	0.44
1:AA:2863:C:C2'	1:AA:2864:G:H5'	2.47	0.44
1:AA:2882:A:C4'	15:AO:98:LEU:HD21	2.48	0.44
2:AB:47:C:H2'	2:AB:48:A:C5'	2.47	0.44
2:AB:78:A:C4	2:AB:99:A:N6	2.86	0.44
3:AC:13:LYS:CB	3:AC:32:LEU:HD23	2.48	0.44
3:AC:41:VAL:CG1	3:AC:216:THR:HG22	2.47	0.44
3:AC:222:VAL:HG13	3:AC:223:ARG:O	2.17	0.44
4:AD:5:LYS:C	4:AD:6:PHE:O	2.59	0.44
4:AD:33:LEU:C	4:AD:34:VAL:CG1	2.90	0.44
4:AD:95:LEU:CD2	4:AD:96:HIS:N	2.69	0.44
4:AD:145:VAL:CG1	4:AD:191:ALA:HB2	2.40	0.44
4:AD:165:ILE:N	4:AD:165:ILE:CD1	2.81	0.44
4:AD:176:ARG:CA	4:AD:182:LEU:CD2	2.96	0.44
5:AE:5:LEU:HD23	5:AE:7:VAL:CA	2.48	0.44
5:AE:49:LEU:HD21	5:AE:75:VAL:N	2.32	0.44
5:AE:51:PHE:HE1	5:AE:75:VAL:H	1.64	0.44
5:AE:104:VAL:HG13	5:AE:198:VAL:CA	2.45	0.44
5:AE:119:ARG:HD2	5:AE:156:MET:N	2.29	0.44
6:AF:37:VAL:HG12	6:AF:41:LEU:CD2	2.40	0.44
6:AF:37:VAL:O	6:AF:41:LEU:CD2	2.66	0.44
6:AF:75:HIS:CE1	6:AF:80:ALA:CB	3.01	0.44
7:AG:56:ALA:HA	7:AG:59:GLU:CG	2.48	0.44
7:AG:114:ILE:O	7:AG:115:ARG:C	2.60	0.44
7:AG:125:PHE:HD1	7:AG:131:TYR:C	2.24	0.44
7:AG:168:GLU:O	7:AG:169:ALA:C	2.61	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:20:ALA:HB3	8:AH:21:PRO:CD	2.46	0.44
8:AH:77:LYS:HE3	8:AH:77:LYS:HB3	1.69	0.44
8:AH:117:PRO:HB2	8:AH:121:ILE:HG23	1.98	0.44
10:AJ:115:LEU:HD13	10:AJ:116:ASN:CG	2.43	0.44
11:AK:16:ILE:O	11:AK:54:VAL:CG2	2.64	0.44
11:AK:19:GLU:HG3	11:AK:59:LYS:HB2	1.99	0.44
11:AK:97:ARG:O	11:AK:100:GLU:CA	2.66	0.44
12:AL:36:GLY:N	12:AL:61:VAL:CG1	2.81	0.44
12:AL:90:GLN:O	12:AL:91:LEU:O	2.36	0.44
12:AL:114:ILE:HG22	12:AL:115:VAL:N	2.32	0.44
12:AL:122:LEU:HA	17:AQ:71:GLY:CA	2.47	0.44
13:AM:114:ILE:HD12	13:AM:123:LEU:HG	1.97	0.44
16:AP:17:ARG:HH21	16:AP:25:ARG:HD2	1.82	0.44
17:AQ:45:PHE:CZ	17:AQ:87:ASP:CB	2.99	0.44
18:AR:61:TRP:O	18:AR:65:ILE:CD1	2.66	0.44
18:AR:83:LEU:HB3	18:AR:90:VAL:HG13	2.00	0.44
18:AR:114:LYS:HB3	18:AR:114:LYS:HE2	1.36	0.44
19:AS:78:LYS:HE2	19:AS:84:LYS:CG	2.45	0.44
20:AT:7:ALA:N	20:AT:103:ILE:CD1	2.80	0.44
20:AT:20:VAL:O	20:AT:24:ILE:HG12	2.18	0.44
20:AT:20:VAL:HG21	20:AT:47:VAL:HG21	1.99	0.44
20:AT:21:VAL:HG22	20:AT:75:TYR:CE1	2.53	0.44
21:AU:18:TYR:HA	21:AU:21:PHE:CE2	2.53	0.44
21:AU:29:TRP:CG	21:AU:76:ARG:HE	2.34	0.44
24:AX:44:ARG:CD	24:AX:45:PHE:CE1	3.01	0.44
26:AZ:15:TYR:O	26:AZ:20:LYS:HD2	2.16	0.44
29:Ac:45:LYS:O	29:Ac:46:HIS:CB	2.66	0.44
30:Ad:17:GLY:O	30:Ad:21:ARG:NH1	2.51	0.44
32:Af:12:ASP:O	32:Af:13:LYS:HG3	2.18	0.44
33:Ag:290:UNK:N	33:Ag:343:UNK:CA	2.71	0.44
34:BA:74:C:N3	34:BA:75:C:C5	2.86	0.44
34:BA:181:G:H2'	34:BA:182:U:OP2	2.17	0.44
34:BA:181:G:H22	34:BA:223:U:H4'	1.83	0.44
34:BA:230:G:OP1	49:BT:33:ILE:HG12	2.18	0.44
34:BA:407:G:O2'	37:BH:116:GLN:HG2	2.17	0.44
34:BA:558:G:C5'	34:BA:559:A:C5'	2.96	0.44
34:BA:580:U:C5'	48:BS:58:MET:HG2	2.48	0.44
34:BA:597:G:C4	34:BA:644:G:C2	3.06	0.44
34:BA:600:C:C2	34:BA:601:C:C6	3.06	0.44
34:BA:692:U:C2	34:BA:694:A:H3'	2.48	0.44
34:BA:696:A:C2	34:BA:697:U:C1'	3.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:779:C:N4	34:BA:780:A:C2	2.85	0.44
34:BA:828:A:H8	34:BA:829:G:C8	2.36	0.44
34:BA:865:A:C8	34:BA:865:A:OP2	2.71	0.44
34:BA:977:A:N6	34:BA:1224:G:O5'	2.51	0.44
34:BA:1227:A:O2'	46:BQ:115:LYS:HE2	2.17	0.44
34:BA:1239:A:H8	34:BA:1241:G:H1'	1.82	0.44
34:BA:1293:G:O2'	34:BA:1294:G:H5'	2.18	0.44
34:BA:1300:G:C6	34:BA:1335:C:C5	3.05	0.44
34:BA:1338:G:H2'	34:BA:1339:A:H8	1.76	0.44
34:BA:1399:C:HO2'	34:BA:1400:C:P	2.37	0.44
34:BA:1453:G:C2'	34:BA:1454:G:H5'	2.46	0.44
34:BA:1489:G:C2	34:BA:1490:C:O2	2.70	0.44
34:BA:1509:C:HO2'	34:BA:1510:U:H5'	1.81	0.44
34:BA:1520:G:C2'	34:BA:1521:G:C8	2.95	0.44
35:BF:103:THR:HG1	35:BF:180:LEU:HD21	1.81	0.44
35:BF:132:LYS:NZ	35:BF:132:LYS:CB	2.81	0.44
36:BG:23:TYR:CD1	43:BN:11:PHE:N	2.86	0.44
36:BG:39:ILE:CG2	36:BG:40:ARG:N	2.72	0.44
36:BG:82:GLU:OE1	36:BG:83:ARG:N	2.51	0.44
36:BG:138:VAL:O	36:BG:170:GLN:NE2	2.51	0.44
37:BH:110:PHE:HZ	37:BH:147:ALA:HB1	1.80	0.44
38:BI:144:THR:O	38:BI:145:LYS:C	2.60	0.44
39:BJ:8:ILE:HG23	39:BJ:89:MET:H	1.82	0.44
39:BJ:60:PHE:CZ	51:BV:78:LEU:HD21	2.52	0.44
40:BK:13:GLN:O	40:BK:14:PRO:O	2.35	0.44
40:BK:50:ILE:C	40:BK:54:THR:HG23	2.39	0.44
40:BK:138:LYS:O	40:BK:139:GLU:C	2.60	0.44
41:BL:9:MET:SD	41:BL:32:LYS:HB2	2.57	0.44
41:BL:22:GLU:CB	41:BL:63:LEU:HD22	2.47	0.44
41:BL:63:LEU:CD2	41:BL:63:LEU:N	2.80	0.44
43:BN:30:SER:O	43:BN:78:ASN:HB3	2.18	0.44
44:BO:90:GLY:O	44:BO:91:ARG:C	2.58	0.44
45:BP:64:TYR:O	45:BP:65:GLU:HG3	2.17	0.44
45:BP:78:GLN:N	45:BP:78:GLN:CD	2.76	0.44
45:BP:110:VAL:HB	45:BP:113:ARG:CG	2.48	0.44
50:BU:43:LEU:HD11	50:BU:69:LYS:HB2	2.00	0.44
50:BU:50:LYS:HB3	50:BU:51:TYR:CD1	2.51	0.44
50:BU:94:ASN:O	50:BU:95:TYR:C	2.61	0.44
51:BV:67:ALA:HA	51:BV:70:ILE:CG1	2.46	0.44
52:BW:7:LYS:HA	52:BW:8:GLY:C	2.41	0.44
55:CA:18:LYS:N	57:CA:701:GCP:O2B	2.49	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:21:LEU:CD1	55:CA:98:VAL:HG23	2.46	0.44
55:CA:64:ILE:HD13	55:CA:188:GLN:N	2.33	0.44
55:CA:98:VAL:HA	55:CA:126:VAL:HB	1.99	0.44
55:CA:176:HIS:CB	55:CA:177:GLU:CB	2.87	0.44
55:CA:178:ASP:O	55:CA:180:ALA:N	2.50	0.44
55:CA:212:LEU:HD13	55:CA:282:LEU:HD23	2.00	0.44
55:CA:496:ALA:CB	55:CA:516:ALA:HB3	2.47	0.44
55:CA:504:LEU:HD21	55:CA:535:VAL:HG21	1.97	0.44
1:AA:8:A:H5''	11:AK:51:PHE:HE2	1.76	0.44
1:AA:28:A:H2'	1:AA:28:A:N3	2.33	0.44
1:AA:32:C:H1'	1:AA:474:G:N2	2.33	0.44
1:AA:76:C:H4'	25:AY:54:ARG:NH1	2.27	0.44
1:AA:119:A:O2'	1:AA:120:U:O5'	2.35	0.44
1:AA:120:U:H1'	1:AA:149:A:C1'	2.47	0.44
1:AA:141:A:C2	1:AA:1596:A:C2'	3.01	0.44
1:AA:207:A:C2	1:AA:208:C:H1'	2.53	0.44
1:AA:270(E):G:C2	1:AA:270(V):G:N2	2.85	0.44
1:AA:292:C:H3'	1:AA:293:U:C2	2.51	0.44
1:AA:322:A:OP1	6:AF:168:ARG:HG2	2.18	0.44
1:AA:333:G:C6	1:AA:334:C:C5	3.06	0.44
1:AA:419:C:C4	1:AA:420:C:C4	3.06	0.44
1:AA:423:A:H3'	1:AA:423:A:OP2	2.17	0.44
1:AA:456:C:N4	21:AU:68:ARG:HB3	2.32	0.44
1:AA:583:G:C5	1:AA:584:C:C5	3.05	0.44
1:AA:585:G:O6	1:AA:1251:C:C6	2.71	0.44
1:AA:602:G:H4'	1:AA:603:A:O2'	2.18	0.44
1:AA:659:C:H4'	6:AF:102:PRO:HD3	2.00	0.44
1:AA:663:G:H5'	13:AM:18:ARG:NE	2.32	0.44
1:AA:692:C:HO2'	1:AA:693:C:H5'	1.83	0.44
1:AA:705:A:N3	1:AA:705:A:C2'	2.71	0.44
1:AA:749:C:OP2	20:AT:88:ARG:NH2	2.47	0.44
1:AA:775:G:N2	1:AA:787:U:O3'	2.51	0.44
1:AA:865:C:O2'	1:AA:866:A:C8	2.62	0.44
1:AA:866:A:C2	1:AA:867:C:C6	3.06	0.44
1:AA:1060:U:H5''	1:AA:1060:U:H6	1.83	0.44
1:AA:1195:G:C2	1:AA:1196:C:C6	3.06	0.44
1:AA:1314:C:C2	1:AA:1315:C:C6	3.05	0.44
1:AA:1314:C:C4	1:AA:1315:C:N4	2.86	0.44
1:AA:1364:G:C2	1:AA:1367:A:OP2	2.69	0.44
1:AA:1435:G:C4	1:AA:1436:G:C8	3.06	0.44
1:AA:1483:G:N3	1:AA:1483:G:C2'	2.78	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1596:A:N6	1:AA:1597:A:N1	2.65	0.44
1:AA:1649:G:N3	15:AO:107:ASP:HB3	2.32	0.44
1:AA:1689:A:N6	1:AA:1700:A:C4	2.86	0.44
1:AA:1809:A:H61	27:Aa:3:GLU:HB2	1.83	0.44
1:AA:2028:U:H2'	1:AA:2029:G:N7	2.31	0.44
1:AA:2052:G:C6	1:AA:2053:G:C6	3.06	0.44
1:AA:2122:U:H1'	3:AC:166:ASP:OD2	2.18	0.44
1:AA:2133:G:N3	1:AA:2133:G:H2'	2.32	0.44
1:AA:2266:A:C4	1:AA:2272:U:C5	3.06	0.44
1:AA:2309:A:N6	7:AG:80:PHE:CZ	2.85	0.44
1:AA:2494:G:O2'	14:AN:81:VAL:O	2.25	0.44
1:AA:2563:U:H4'	12:AL:28:SER:HG	1.77	0.44
1:AA:2706:G:N1	1:AA:2707:G:C5	2.86	0.44
1:AA:2710:C:H2'	1:AA:2711:A:O4'	2.16	0.44
1:AA:2820:A:O3'	15:AO:4:LEU:CD2	2.63	0.44
2:AB:65:C:C4	2:AB:108:C:C4	3.06	0.44
2:AB:73:A:C5	2:AB:104:A:C4	3.06	0.44
2:AB:87:G:N1	2:AB:90:C:N4	2.66	0.44
3:AC:26:ALA:O	3:AC:30:LYS:CG	2.65	0.44
3:AC:97:GLU:HG2	3:AC:100:ILE:HD12	1.99	0.44
4:AD:62:TYR:C	4:AD:63:ARG:NH2	2.75	0.44
4:AD:80:ALA:HB1	4:AD:96:HIS:CE1	2.52	0.44
4:AD:107:ALA:O	4:AD:108:PRO:O	2.35	0.44
4:AD:122:ASP:C	4:AD:131:LEU:HD21	2.43	0.44
4:AD:175:LEU:C	4:AD:175:LEU:CD1	2.77	0.44
4:AD:244:ARG:HA	4:AD:252:TRP:HE1	1.83	0.44
5:AE:2:LYS:CD	5:AE:83:ASP:CB	2.94	0.44
5:AE:4:ILE:O	5:AE:4:ILE:CG1	2.55	0.44
5:AE:95:ILE:HG22	5:AE:96:PHE:N	2.31	0.44
5:AE:105:THR:HG21	5:AE:199:ARG:NH2	2.32	0.44
6:AF:95:ARG:HE	6:AF:96:ASP:H	1.65	0.44
6:AF:140:LEU:HD22	6:AF:140:LEU:C	2.43	0.44
8:AH:4:ILE:N	8:AH:4:ILE:CD1	2.80	0.44
8:AH:102:ALA:HA	8:AH:115:VAL:C	2.42	0.44
8:AH:125:VAL:O	8:AH:125:VAL:HG12	2.18	0.44
8:AH:137:ASP:HB3	8:AH:140:LYS:CE	2.46	0.44
8:AH:143:GLN:O	8:AH:146:ALA:N	2.51	0.44
9:AI:141:VAL:O	33:Ag:134:UNK:CB	2.66	0.44
10:AJ:113:PRO:HG2	10:AJ:114:ASP:H	1.83	0.44
11:AK:4:TYR:CZ	18:AR:101:ARG:NH1	2.86	0.44
11:AK:23:LEU:CG	11:AK:63:THR:HG23	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:107:LEU:HD13	11:AK:117:PHE:CG	2.53	0.44
11:AK:136:GLU:O	11:AK:137:LYS:CG	2.66	0.44
12:AL:3:GLN:CD	12:AL:3:GLN:N	2.76	0.44
12:AL:8:LEU:HD21	12:AL:81:ASP:HB3	2.00	0.44
12:AL:16:ALA:HB3	12:AL:45:GLU:CB	2.42	0.44
12:AL:42:SER:OG	12:AL:43:VAL:N	2.51	0.44
12:AL:47:ILE:CD1	12:AL:52:VAL:CG1	2.91	0.44
12:AL:99:PHE:C	12:AL:118:ALA:HB1	2.43	0.44
14:AN:7:MET:O	14:AN:69:PHE:CZ	2.70	0.44
14:AN:22:LYS:CD	14:AN:99:PRO:HG3	2.25	0.44
14:AN:68:ILE:CG2	14:AN:95:ALA:HB2	2.48	0.44
14:AN:116:GLU:HA	14:AN:119:ARG:HD3	1.99	0.44
14:AN:121:ALA:C	14:AN:125:LEU:HG	2.37	0.44
16:AP:32:LEU:C	16:AP:34:HIS:N	2.74	0.44
16:AP:67:ARG:HD3	16:AP:103:GLU:HB2	1.99	0.44
17:AQ:28:VAL:HG13	17:AQ:92:GLY:O	2.17	0.44
17:AQ:34:VAL:CG2	17:AQ:36:GLU:HB2	2.45	0.44
18:AR:33:ARG:O	18:AR:36:ARG:N	2.51	0.44
19:AS:5:VAL:CG2	19:AS:39:LEU:HD22	2.48	0.44
21:AU:29:TRP:HB2	21:AU:76:ARG:HH21	1.82	0.44
22:AV:72:VAL:O	22:AV:77:PRO:O	2.36	0.44
23:AW:69:THR:HB	23:AW:90:VAL:HG13	1.99	0.44
23:AW:102:LEU:CG	23:AW:125:LEU:HD12	2.48	0.44
25:AY:16:LEU:O	25:AY:16:LEU:HD12	2.17	0.44
25:AY:50:ARG:HB2	25:AY:54:ARG:NH2	2.33	0.44
25:AY:55:LEU:H	25:AY:55:LEU:CD1	2.31	0.44
25:AY:58:VAL:C	25:AY:60:ASN:N	2.76	0.44
26:AZ:2:PRO:HD2	26:AZ:39:ASP:HB3	2.00	0.44
29:Ac:33:LYS:HE2	29:Ac:33:LYS:C	2.41	0.44
31:Ae:16:ILE:HG23	31:Ae:22:VAL:HG22	1.96	0.44
31:Ae:39:LYS:NZ	31:Ae:39:LYS:N	2.65	0.44
32:Af:20:HIS:ND1	32:Af:20:HIS:N	2.65	0.44
34:BA:7:G:H1'	34:BA:298:A:C4	2.53	0.44
34:BA:22:G:O4'	34:BA:885:G:C1'	2.65	0.44
34:BA:66:G:N1	34:BA:67:C:C4	2.86	0.44
34:BA:355:C:C2	34:BA:356:A:C8	3.06	0.44
34:BA:408:A:C6	34:BA:409:G:C6	3.06	0.44
34:BA:414:A:C6	34:BA:431:A:C2	3.06	0.44
34:BA:421:U:C2	36:BG:127:ARG:CZ	3.01	0.44
34:BA:584:G:OP2	50:BU:87:LYS:NZ	2.51	0.44
34:BA:598:U:C2	34:BA:599:C:C5	3.06	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:675:A:C2'	34:BA:676:A:H8	2.31	0.44
34:BA:692:U:C2	34:BA:694:A:OP2	2.71	0.44
34:BA:760:G:C5'	34:BA:761:G:OP2	2.66	0.44
34:BA:833:U:H2'	34:BA:834:C:C6	2.52	0.44
34:BA:957:U:O2	34:BA:960:U:C5	2.71	0.44
34:BA:965:A:N7	34:BA:969:A:N3	2.66	0.44
34:BA:991:U:O2'	34:BA:993:G:C8	2.69	0.44
34:BA:1003:G:OP2	34:BA:1003:G:C8	2.70	0.44
34:BA:1203:C:H6	34:BA:1203:C:O5'	2.01	0.44
34:BA:1239:A:C8	34:BA:1241:G:H1'	2.53	0.44
34:BA:1272:G:H2'	34:BA:1273:G:C8	2.48	0.44
34:BA:1315:U:H1'	34:BA:1361:G:O5'	2.17	0.44
34:BA:1369:C:OP2	42:BM:111:ARG:HA	2.18	0.44
34:BA:1382:C:C4	34:BA:1383:C:N4	2.83	0.44
34:BA:1402:C:H2'	34:BA:1403:C:O5'	2.18	0.44
34:BA:1412:C:C2	34:BA:1413:A:C8	3.05	0.44
34:BA:1424:C:H2'	34:BA:1425:U:O5'	2.18	0.44
34:BA:1434:A:N7	34:BA:1435:G:N7	2.66	0.44
34:BA:1499:A:C2'	34:BA:1500:A:C5'	2.87	0.44
35:BF:84:GLU:HG2	35:BF:234:PRO:CG	2.47	0.44
35:BF:101:MET:HB3	35:BF:105:PHE:CD1	2.53	0.44
35:BF:118:LEU:CD1	35:BF:141:GLU:OE2	2.65	0.44
37:BH:13:ARG:NH1	37:BH:36:ARG:HB2	2.29	0.44
37:BH:31:CYS:O	37:BH:33:MET:CE	2.59	0.44
38:BI:39:GLY:O	38:BI:68:GLU:OE2	2.36	0.44
40:BK:139:GLU:O	40:BK:142:GLU:HB2	2.18	0.44
41:BL:7:ALA:HB2	41:BL:85:ARG:HH11	1.83	0.44
41:BL:32:LYS:HE3	41:BL:32:LYS:HB3	1.84	0.44
41:BL:112:LEU:C	41:BL:112:LEU:HD23	2.43	0.44
42:BM:53:VAL:HG12	42:BM:53:VAL:O	2.18	0.44
42:BM:121:ARG:CG	42:BM:121:ARG:NH1	2.81	0.44
43:BN:33:GLN:O	43:BN:34:VAL:HB	2.17	0.44
47:BR:29:ARG:HD3	47:BR:40:CYS:HB3	2.00	0.44
48:BS:54:ARG:O	48:BS:57:LEU:CB	2.51	0.44
49:BT:38:TYR:CE1	49:BT:50:LYS:HB3	2.53	0.44
50:BU:18:THR:CG2	50:BU:43:LEU:HD21	2.30	0.44
50:BU:22:LEU:CD1	50:BU:41:LYS:HA	2.48	0.44
50:BU:45:HIS:CE1	50:BU:46:ASP:C	2.96	0.44
52:BW:18:LYS:HE2	52:BW:22:LEU:CB	2.48	0.44
52:BW:63:THR:HG22	52:BW:64:GLU:N	2.33	0.44
55:CA:40:GLU:CD	55:CA:41:ARG:HB2	2.43	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:85:VAL:CG1	55:CA:88:VAL:HB	2.47	0.44
55:CA:158:LEU:N	55:CA:159:ASP:HB3	2.32	0.44
55:CA:160:PHE:CD1	55:CA:161:ALA:O	2.71	0.44
55:CA:206:GLN:CG	55:CA:227:LYS:CB	2.27	0.44
55:CA:392:ILE:C	55:CA:392:ILE:CD1	2.86	0.44
55:CA:400:TYR:CB	55:CA:442:VAL:HG13	2.33	0.44
1:AA:7:G:O6	1:AA:2896:C:C4	2.71	0.44
1:AA:28:A:H2'	1:AA:29:U:C5'	2.45	0.44
1:AA:83:G:O2'	1:AA:84:A:O4'	2.32	0.44
1:AA:126:A:OP1	30:Ad:18:PHE:N	2.50	0.44
1:AA:270(C):C:P	1:AA:365:C:H1'	2.58	0.44
1:AA:270(C):C:C2'	1:AA:270(D):C:H6	2.02	0.44
1:AA:270(X):G:C2	1:AA:270(Y):G:H4'	2.53	0.44
1:AA:285:C:N3	1:AA:357:A:C2	2.85	0.44
1:AA:310:A:C8	1:AA:312:G:C6	3.05	0.44
1:AA:322:A:O5'	1:AA:341:G:H5'	2.17	0.44
1:AA:344:G:C2	1:AA:345:A:C6	3.06	0.44
1:AA:390:A:H3'	1:AA:390:A:P	2.57	0.44
1:AA:449:A:OP2	6:AF:85:GLY:CA	2.66	0.44
1:AA:508:G:H4'	1:AA:509:C:O5'	2.18	0.44
1:AA:523:C:C4	1:AA:524:U:C5	3.06	0.44
1:AA:537:C:H2'	1:AA:539:G:H8	1.79	0.44
1:AA:612:G:C4'	1:AA:616:A:N1	2.80	0.44
1:AA:620:G:C5'	1:AA:621:A:OP1	2.59	0.44
1:AA:636:G:H2'	13:AM:113:LYS:NZ	2.29	0.44
1:AA:649:G:O2'	31:Ae:17:THR:CG2	2.66	0.44
1:AA:669:G:C4	1:AA:801:G:N1	2.86	0.44
1:AA:778:G:C6	1:AA:779:U:N3	2.85	0.44
1:AA:779:U:O4	1:AA:780:G:N1	2.50	0.44
1:AA:829:A:OP1	1:AA:831:G:H1'	2.16	0.44
1:AA:873:G:C6	1:AA:874:G:C5	3.06	0.44
1:AA:1079:C:H42	1:AA:1088:A:H5'	1.77	0.44
1:AA:1088:A:H2'	1:AA:1089:G:OP1	2.18	0.44
1:AA:1090:U:C4	1:AA:1103:A:N1	2.86	0.44
1:AA:1163:G:N3	1:AA:1164:G:C8	2.86	0.44
1:AA:1174:A:N6	1:AA:1177:A:C5	2.82	0.44
1:AA:1268:A:OP1	1:AA:2006:C:OP1	2.36	0.44
1:AA:1272:A:H3'	1:AA:1646:C:N4	2.33	0.44
1:AA:1348:G:C6	1:AA:1599:C:N3	2.86	0.44
1:AA:1391:U:O2	1:AA:1391:U:C2'	2.61	0.44
1:AA:1429:G:C3'	1:AA:1430:C:H6	2.23	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1741:C:C2'	1:AA:1742:C:O4'	2.66	0.44
1:AA:1796:U:O2'	1:AA:1797:C:O5'	2.36	0.44
1:AA:1819:A:O2'	1:AA:1820:U:O5'	2.35	0.44
1:AA:1827:C:C5'	1:AA:1971:A:H4'	2.48	0.44
1:AA:1899:G:N2	1:AA:1901:A:C6	2.85	0.44
1:AA:1953:A:N7	1:AA:2550:G:H1'	2.33	0.44
1:AA:1996:C:C6	1:AA:1996:C:C3'	3.00	0.44
1:AA:1998:G:C6	1:AA:1999:C:N4	2.86	0.44
1:AA:2070:G:C2	1:AA:2071:A:C4	3.06	0.44
1:AA:2286:A:C8	29:Ac:31:PRO:HD2	2.53	0.44
1:AA:2309:A:C4	1:AA:2310:A:C8	3.05	0.44
1:AA:2394:C:O2	1:AA:2394:C:C2'	2.64	0.44
1:AA:2408:U:C2	1:AA:2409:G:N7	2.86	0.44
1:AA:2459:A:C2	1:AA:2492:U:O4	2.54	0.44
1:AA:2496:C:C6	1:AA:2497:A:C2	3.05	0.44
1:AA:2550:G:N2	1:AA:2559:C:N1	2.65	0.44
1:AA:2553:G:O5'	1:AA:2554:U:OP2	2.36	0.44
1:AA:2634:G:HO2'	1:AA:2635:C:C5'	2.30	0.44
1:AA:2649:U:C5	1:AA:2649:U:OP2	2.70	0.44
1:AA:2653:U:H6	1:AA:2653:U:H3'	1.83	0.44
1:AA:2694:G:C2	1:AA:2716:U:C2	3.06	0.44
1:AA:2708:G:H4'	15:AO:71:GLN:OE1	2.18	0.44
1:AA:2718:G:C2	1:AA:2719:G:C4	3.06	0.44
1:AA:2737:G:C2	1:AA:2738:A:N7	2.86	0.44
1:AA:2748:A:C4	1:AA:2757:A:N6	2.86	0.44
1:AA:2803:C:N3	1:AA:2804:C:N3	2.65	0.44
1:AA:2816:C:O3'	28:Ab:43:HIS:CE1	2.71	0.44
2:AB:111:U:O2	2:AB:112:G:C8	2.71	0.44
3:AC:30:LYS:HD2	3:AC:185:LEU:CD1	2.48	0.44
3:AC:103:ILE:HD13	3:AC:127:LEU:HD11	1.99	0.44
4:AD:6:PHE:N	4:AD:28:GLU:OE1	2.51	0.44
4:AD:159:ALA:O	4:AD:196:VAL:CG1	2.63	0.44
4:AD:173:VAL:O	4:AD:184:LYS:HA	2.17	0.44
5:AE:9:VAL:CG2	17:AQ:7:ILE:HG21	2.48	0.44
5:AE:19:ARG:HB3	12:AL:73:ASP:OD2	2.18	0.44
5:AE:148:GLY:C	5:AE:149:ARG:CG	2.90	0.44
5:AE:173:VAL:HG11	5:AE:184:VAL:CA	2.48	0.44
6:AF:38:ARG:O	6:AF:41:LEU:HG	2.18	0.44
6:AF:169:ASN:OD1	6:AF:171:PRO:HG2	2.18	0.44
7:AG:1:MET:O	7:AG:2:PRO:C	2.60	0.44
7:AG:2:PRO:HA	7:AG:5:VAL:HG21	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:58:GLU:O	8:AH:62:LYS:HG2	2.17	0.44
8:AH:75:ALA:O	8:AH:79:VAL:HG22	2.18	0.44
10:AJ:15:GLY:N	10:AJ:45:THR:CB	2.62	0.44
10:AJ:15:GLY:CA	10:AJ:45:THR:O	2.66	0.44
10:AJ:86:LYS:HD2	10:AJ:87:GLY:H	1.78	0.44
11:AK:74:ARG:CD	11:AK:82:LEU:CD1	2.96	0.44
11:AK:109:LYS:HE3	11:AK:111:PRO:HD2	1.99	0.44
11:AK:139:GLU:CD	11:AK:140:VAL:N	2.76	0.44
12:AL:59:LYS:HA	12:AL:86:ILE:CG1	2.48	0.44
12:AL:111:PHE:CD1	12:AL:111:PHE:C	2.96	0.44
13:AM:76:LYS:HB2	13:AM:101:VAL:HG21	1.99	0.44
13:AM:96:THR:O	13:AM:99:LEU:CB	2.66	0.44
14:AN:85:LYS:HZ2	24:AX:10:THR:HG1	1.57	0.44
14:AN:91:GLU:OE2	14:AN:91:GLU:N	2.51	0.44
16:AP:28:VAL:CG2	16:AP:29:PHE:H	2.11	0.44
16:AP:41:ASP:OD1	16:AP:42:ASP:O	2.36	0.44
17:AQ:81:PRO:O	17:AQ:85:LYS:NZ	2.50	0.44
18:AR:25:TRP:CE3	18:AR:25:TRP:C	2.96	0.44
18:AR:28:ARG:CB	18:AR:38:THR:HG21	2.37	0.44
18:AR:98:LEU:HD12	18:AR:105:VAL:HG11	1.99	0.44
19:AS:5:VAL:HG13	19:AS:38:LEU:C	2.40	0.44
19:AS:6:LYS:HG2	19:AS:12:TYR:CA	2.47	0.44
20:AT:4:LYS:H	20:AT:4:LYS:HG2	1.39	0.44
20:AT:78:GLU:OE2	20:AT:101:SER:OG	2.29	0.44
21:AU:50:LYS:NZ	21:AU:87:GLN:H	2.15	0.44
21:AU:89:ILE:O	21:AU:90:GLU:C	2.61	0.44
22:AV:15:VAL:O	22:AV:16:ALA:C	2.61	0.44
22:AV:85:VAL:O	22:AV:85:VAL:HG12	2.16	0.44
23:AW:41:LEU:O	23:AW:45:ASP:CG	2.61	0.44
23:AW:60:GLU:OE2	23:AW:69:THR:HG22	2.18	0.44
23:AW:102:LEU:HG	23:AW:125:LEU:CG	2.46	0.44
24:AX:72:ARG:O	24:AX:75:LEU:HD13	2.17	0.44
25:AY:36:ILE:CG1	25:AY:37:GLY:N	2.69	0.44
27:Aa:10:VAL:CG2	27:Aa:60:GLN:HE22	2.31	0.44
28:Ab:25:LEU:O	28:Ab:25:LEU:CG	2.57	0.44
29:Ac:21:TYR:CD1	29:Ac:21:TYR:C	2.96	0.44
29:Ac:39:TYR:O	29:Ac:39:TYR:CG	2.70	0.44
30:Ad:35:ARG:NH1	30:Ad:35:ARG:CB	2.81	0.44
31:Ae:5:LYS:HG2	31:Ae:7:HIS:CA	2.48	0.44
32:Af:19:ARG:HD3	32:Af:22:ARG:CB	2.48	0.44
34:BA:27:G:OP2	34:BA:27:G:C8	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:78:G:N1	34:BA:79:G:C5	2.86	0.44
34:BA:133:U:O3'	34:BA:134:A:C8	2.70	0.44
34:BA:139:G:N2	34:BA:225:C:C2	2.86	0.44
34:BA:191(C):G:O2'	34:BA:191(D):U:H5'	2.18	0.44
34:BA:270:A:C5	34:BA:271:C:C5	3.06	0.44
34:BA:298:A:C2	34:BA:299:G:H1'	2.53	0.44
34:BA:392:G:N2	34:BA:393:A:H1'	2.32	0.44
34:BA:411:A:N7	34:BA:429:U:C5	2.86	0.44
34:BA:518:C:C6	34:BA:530:G:C4	3.05	0.44
34:BA:539:A:P	45:BP:114:LYS:NZ	2.91	0.44
34:BA:582:U:OP2	34:BA:758:G:N2	2.51	0.44
34:BA:824:C:H4'	41:BL:1:MET:HA	2.00	0.44
34:BA:894:G:C6	34:BA:895:G:C5	3.06	0.44
34:BA:896:C:C2	34:BA:897:C:C6	3.06	0.44
34:BA:973:G:C2	34:BA:974:A:N7	2.86	0.44
34:BA:985:C:O2'	52:BW:55:LYS:CE	2.61	0.44
34:BA:1029:G:O4'	34:BA:1032(A):G:N2	2.51	0.44
34:BA:1081:G:H2'	34:BA:1082:G:H8	1.83	0.44
34:BA:1082:G:C6	34:BA:1083:U:C5	3.06	0.44
34:BA:1250:A:H2'	34:BA:1251:A:C8	2.53	0.44
34:BA:1253:G:N2	34:BA:1285:A:N6	2.66	0.44
34:BA:1287:A:H1'	34:BA:1353:G:O2'	2.18	0.44
34:BA:1288:A:N3	34:BA:1352:C:O2'	2.49	0.44
34:BA:1324:A:C4'	34:BA:1362:C:H4'	2.48	0.44
34:BA:1360:A:N1	34:BA:1361:G:C2	2.86	0.44
34:BA:1365:G:C2	34:BA:1366:C:C6	3.05	0.44
34:BA:1466:C:H2'	34:BA:1467:G:C1'	2.48	0.44
35:BF:33:TYR:CD2	35:BF:43:ASP:HB2	2.53	0.44
36:BG:43:LEU:HD11	36:BG:55:VAL:CG1	2.48	0.44
36:BG:67:THR:HG23	36:BG:102:ASN:HB3	1.99	0.44
37:BH:155:LEU:O	37:BH:158:ILE:HB	2.18	0.44
38:BI:23:GLY:HA3	38:BI:25:ARG:CZ	2.45	0.44
39:BJ:66:GLU:C	39:BJ:67:MET:HE3	2.42	0.44
40:BK:20:ASP:OD1	40:BK:23:VAL:HG23	2.17	0.44
40:BK:79:ARG:CG	40:BK:84:ASN:HB3	2.48	0.44
40:BK:111:ARG:HD3	40:BK:122:HIS:HB3	1.98	0.44
40:BK:150:ALA:HA	44:BO:59:TYR:CB	2.48	0.44
41:BL:44:PHE:O	41:BL:64:LYS:HD3	2.17	0.44
42:BM:99:LEU:N	42:BM:99:LEU:CD2	2.80	0.44
44:BO:18:ARG:HB3	44:BO:83:ILE:CD1	2.48	0.44
44:BO:32:ILE:O	44:BO:39:PRO:CB	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:27:LEU:CD2	45:BP:62:SER:OG	2.66	0.44
45:BP:82:VAL:O	45:BP:83:VAL:CB	2.65	0.44
45:BP:85:ILE:CG1	45:BP:98:TYR:HB3	2.47	0.44
46:BQ:11:ARG:C	46:BQ:13:LYS:N	2.74	0.44
46:BQ:34:LEU:HD23	46:BQ:39:ILE:CD1	2.42	0.44
47:BR:34:TYR:OH	47:BR:41:ARG:CA	2.65	0.44
48:BS:24:SER:O	48:BS:28:GLN:HG2	2.17	0.44
49:BT:51:VAL:HG22	49:BT:73:LEU:HD11	1.96	0.44
50:BU:5:VAL:CB	50:BU:59:ILE:O	2.66	0.44
50:BU:83:ASP:O	50:BU:84:LEU:C	2.59	0.44
51:BV:59:SER:O	51:BV:62:GLU:N	2.51	0.44
51:BV:78:LEU:C	51:BV:79:LEU:CD1	2.82	0.44
53:BX:13:LEU:HD13	53:BX:17:ARG:HH22	1.83	0.44
53:BX:56:MET:SD	53:BX:56:MET:C	3.01	0.44
55:CA:35:ARG:HA	55:CA:36:ALA:CB	2.40	0.44
55:CA:81:PHE:O	55:CA:361:ARG:CB	2.66	0.44
55:CA:214:TYR:CG	55:CA:215:ASN:N	2.85	0.44
55:CA:234:ASN:HA	55:CA:235:GLN:C	2.38	0.44
55:CA:518:VAL:HB	55:CA:522:GLN:CD	2.43	0.44
1:AA:70:G:C3'	1:AA:71:A:H5'	2.48	0.43
1:AA:140:A:H2	1:AA:1408:C:C2	2.35	0.43
1:AA:144:C:C2	1:AA:145:G:C8	3.06	0.43
1:AA:145:G:C2	1:AA:146:G:C4	3.06	0.43
1:AA:242:G:C3'	31:Ae:4:MET:SD	3.02	0.43
1:AA:246:C:N3	1:AA:247:G:C5	2.86	0.43
1:AA:270(J):G:C5	1:AA:270(K):C:C4	3.06	0.43
1:AA:285:C:N3	1:AA:357:A:N1	2.66	0.43
1:AA:332:A:O2'	1:AA:333:G:P	2.76	0.43
1:AA:389:G:H1'	1:AA:2412:A:H2'	2.00	0.43
1:AA:393:C:C2	1:AA:394:A:C8	3.06	0.43
1:AA:449:A:O2'	1:AA:450:G:C5'	2.62	0.43
1:AA:535:C:O2'	18:AR:53:ARG:CG	2.66	0.43
1:AA:584:C:OP2	18:AR:10:ARG:NH2	2.45	0.43
1:AA:659:C:H4'	6:AF:102:PRO:CD	2.48	0.43
1:AA:660:G:C6	1:AA:661:C:N4	2.86	0.43
1:AA:663:G:OP1	13:AM:18:ARG:O	2.35	0.43
1:AA:727:A:H61	1:AA:729:G:H1	1.63	0.43
1:AA:774:A:H5''	1:AA:778:G:H4'	2.00	0.43
1:AA:838:C:N1	1:AA:941:A:N6	2.66	0.43
1:AA:844:C:OP2	1:AA:844:C:H6	2.01	0.43
1:AA:923:C:H4'	24:AX:26:TYR:CD2	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:943:U:H2'	1:AA:944:G:OP1	2.18	0.43
1:AA:1024:G:N7	1:AA:1134:G:H1'	2.33	0.43
1:AA:1133:U:O2'	1:AA:1136:G:OP1	2.34	0.43
1:AA:1148:A:C6	1:AA:1149:G:C5	3.06	0.43
1:AA:1342:A:C2	1:AA:1397:U:C6	3.06	0.43
1:AA:1344:G:C6	1:AA:1385:G:N7	2.86	0.43
1:AA:1358:G:O2'	1:AA:1373:A:N6	2.40	0.43
1:AA:1381:G:O6	1:AA:1382:G:N1	2.51	0.43
1:AA:1440:G:C5	1:AA:1441:G:N7	2.86	0.43
1:AA:1522:G:C8	1:AA:1522:G:C3'	3.01	0.43
1:AA:1542:G:O2'	1:AA:1543:A:C4	2.62	0.43
1:AA:1550:C:C2	1:AA:1551:C:C5	3.06	0.43
1:AA:1604:C:O2	1:AA:1604:C:C2'	2.66	0.43
1:AA:1605:C:C6	1:AA:1606:G:C8	3.06	0.43
1:AA:1669:A:O3'	1:AA:2549:G:H5'	2.17	0.43
1:AA:1670:C:P	1:AA:1671:U:C5	3.00	0.43
1:AA:1743:G:H2'	1:AA:1746:G:O4'	2.18	0.43
1:AA:1808:U:C2	1:AA:1810:A:C2	3.05	0.43
1:AA:1816:G:OP1	4:AD:43:ARG:NH2	2.51	0.43
1:AA:1843:C:O2'	1:AA:1844:C:H5'	2.18	0.43
1:AA:1916:A:C2	1:AA:1917:U:O4	2.70	0.43
1:AA:1945:G:C2	1:AA:1946:U:C4	3.06	0.43
1:AA:1949:G:N7	1:AA:1950:G:C8	2.86	0.43
1:AA:2086:U:OP2	4:AD:260:ARG:NH2	2.51	0.43
1:AA:2114:A:C8	1:AA:2114:A:OP2	2.71	0.43
1:AA:2175:C:O2	1:AA:2175:C:C2'	2.66	0.43
1:AA:2177:C:N3	1:AA:2178:C:C5	2.86	0.43
1:AA:2181:G:N2	1:AA:2182:G:C4	2.85	0.43
1:AA:2207:C:H3'	1:AA:2208:U:C5'	2.38	0.43
1:AA:2239:G:C3'	1:AA:2240:C:C5'	2.87	0.43
1:AA:2295:C:OP1	16:AP:9:ARG:HD2	2.18	0.43
1:AA:2298:A:H3'	1:AA:2299:G:C8	2.49	0.43
1:AA:2302:G:C2	1:AA:2303:G:N9	2.85	0.43
1:AA:2445:G:C2	1:AA:2446:G:C5	3.05	0.43
1:AA:2447:G:HO2'	1:AA:2448:A:P	2.33	0.43
1:AA:2490:G:O2'	1:AA:2491:U:O5'	2.34	0.43
1:AA:2661:G:O6	8:AH:175:LYS:HE2	2.05	0.43
1:AA:2688:U:N3	1:AA:2719:G:N3	2.62	0.43
1:AA:2714:G:H2'	1:AA:2715:C:C5'	2.31	0.43
1:AA:2729:G:C6	1:AA:2730:C:C5	3.06	0.43
1:AA:2805:G:C2'	1:AA:2807:G:H4'	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2849:U:H3	1:AA:2867:G:H1'	1.82	0.43
2:AB:29:A:C2	2:AB:56:G:C2	3.06	0.43
3:AC:200:LYS:HZ1	3:AC:204:ALA:HB3	1.80	0.43
4:AD:37:LEU:CD1	4:AD:64:ILE:N	2.79	0.43
4:AD:55:GLY:CA	4:AD:218:ARG:HD3	2.48	0.43
4:AD:68:LYS:HG2	4:AD:70:TRP:HZ2	1.82	0.43
5:AE:119:ARG:HE	5:AE:119:ARG:C	2.25	0.43
5:AE:185:LYS:O	5:AE:185:LYS:CD	2.65	0.43
6:AF:36:VAL:HG11	6:AF:183:VAL:HG21	2.00	0.43
6:AF:124:LEU:HD21	6:AF:201:VAL:HG21	2.01	0.43
8:AH:85:LYS:CD	8:AH:145:ALA:CB	2.93	0.43
8:AH:111:HIS:O	8:AH:113:VAL:N	2.50	0.43
9:AI:66:LEU:O	9:AI:70:GLU:CA	2.66	0.43
10:AJ:90:LYS:HB3	10:AJ:91:PRO:HD2	1.95	0.43
11:AK:21:LYS:HB3	11:AK:25:ARG:NH2	2.33	0.43
11:AK:38:HIS:O	11:AK:42:TRP:HZ3	2.00	0.43
12:AL:14:THR:O	12:AL:52:VAL:HG11	2.17	0.43
12:AL:59:LYS:CG	12:AL:84:ALA:O	2.66	0.43
12:AL:106:LEU:C	12:AL:106:LEU:CD1	2.87	0.43
13:AM:58:THR:HG22	13:AM:59:LEU:N	2.32	0.43
13:AM:122:PRO:CG	13:AM:138:LEU:HA	2.48	0.43
14:AN:125:LEU:H	14:AN:125:LEU:CD2	2.31	0.43
15:AO:65:LEU:HD23	15:AO:65:LEU:O	2.16	0.43
15:AO:84:ALA:N	15:AO:85:PRO:CD	2.81	0.43
16:AP:81:GLY:O	16:AP:82:ILE:C	2.61	0.43
17:AQ:79:HIS:HB2	17:AQ:82:LEU:CB	2.42	0.43
17:AQ:85:LYS:NZ	17:AQ:85:LYS:CB	2.81	0.43
18:AR:31:SER:O	18:AR:33:ARG:N	2.51	0.43
18:AR:68:ALA:HA	18:AR:71:GLN:OE1	2.17	0.43
19:AS:59:ALA:C	19:AS:60:GLU:OE1	2.61	0.43
21:AU:23:GLU:OE1	21:AU:24:GLY:N	2.51	0.43
21:AU:64:LYS:C	21:AU:70:LEU:HG	2.42	0.43
21:AU:70:LEU:HD23	21:AU:71:GLY:CA	2.48	0.43
22:AV:74:PRO:CG	22:AV:100:ALA:HB3	2.45	0.43
23:AW:17:ALA:O	23:AW:18:LEU:C	2.60	0.43
24:AX:74:ARG:HH11	24:AX:75:LEU:HD11	1.82	0.43
25:AY:53:ALA:O	25:AY:54:ARG:C	2.61	0.43
27:Aa:57:GLU:N	27:Aa:61:ARG:CG	2.81	0.43
27:Aa:59:PHE:O	27:Aa:62:ARG:N	2.51	0.43
29:Ac:22:ALA:O	29:Ac:23:THR:CG2	2.66	0.43
31:Ae:62:LEU:CB	31:Ae:63:PRO:HD3	2.46	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:102:G:C6	34:BA:103:C:C4	3.06	0.43
34:BA:112:G:H2'	34:BA:112:G:N3	2.32	0.43
34:BA:133:U:OP1	53:BX:74:LYS:NZ	2.50	0.43
34:BA:183:G:N3	34:BA:223:U:O2'	2.51	0.43
34:BA:254:G:C1'	50:BU:15:MET:HG2	2.48	0.43
34:BA:322:C:O2'	34:BA:323:U:C5'	2.56	0.43
34:BA:407:G:N1	34:BA:436:C:C2	2.86	0.43
34:BA:451:A:HO2'	34:BA:452:A:C1'	2.31	0.43
34:BA:511:C:C2'	34:BA:512:U:C6	3.01	0.43
34:BA:581:G:O6	34:BA:758:G:C8	2.71	0.43
34:BA:606:G:N2	34:BA:631:G:H2'	2.33	0.43
34:BA:629:G:C4	34:BA:630:G:C8	3.06	0.43
34:BA:770:C:O2'	34:BA:771:G:H5'	2.18	0.43
34:BA:880:C:P	45:BP:9:GLN:NE2	2.90	0.43
34:BA:890:G:O2'	34:BA:891:U:H6	1.98	0.43
34:BA:924:C:H2'	34:BA:925:G:H8	1.83	0.43
34:BA:1011:G:N1	34:BA:1012:U:H1'	2.33	0.43
34:BA:1129:C:H4'	34:BA:1130:A:C8	2.52	0.43
34:BA:1223:C:H3'	34:BA:1223:C:C6	2.53	0.43
34:BA:1392:G:H2'	34:BA:1393:U:O4'	2.18	0.43
34:BA:1528:U:O2'	34:BA:1529:G:O5'	2.35	0.43
35:BF:28:PHE:O	35:BF:29:ALA:C	2.61	0.43
35:BF:51:LEU:N	35:BF:51:LEU:HD23	2.32	0.43
35:BF:84:GLU:CD	35:BF:219:VAL:HG21	2.44	0.43
35:BF:93:VAL:HG12	35:BF:95:GLN:H	1.83	0.43
35:BF:119:GLU:OE1	35:BF:142:LEU:HD21	2.18	0.43
36:BG:62:ASP:C	36:BG:63:ASN:CG	2.85	0.43
36:BG:84:ILE:HA	36:BG:87:LEU:CD1	2.41	0.43
36:BG:130:VAL:O	36:BG:134:ILE:HD13	2.17	0.43
37:BH:155:LEU:O	37:BH:158:ILE:N	2.51	0.43
37:BH:190:ASP:O	37:BH:193:ASP:CG	2.61	0.43
39:BJ:49:ALA:HB3	51:BV:79:LEU:C	2.43	0.43
40:BK:76:ARG:HH11	40:BK:89:MET:CG	2.28	0.43
40:BK:95:ARG:C	40:BK:97:GLN:N	2.75	0.43
41:BL:12:ARG:HH11	41:BL:26:VAL:HG22	1.83	0.43
41:BL:33:GLU:O	41:BL:34:GLU:C	2.61	0.43
41:BL:100:ILE:CG2	41:BL:121:ASP:HA	2.48	0.43
42:BM:47:LEU:O	42:BM:47:LEU:CD1	2.62	0.43
42:BM:72:GLY:HA2	42:BM:75:ASP:OD2	2.18	0.43
42:BM:98:PRO:O	42:BM:100:GLY:N	2.51	0.43
43:BN:40:LEU:HD12	43:BN:69:ASN:HB3	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:26:ASN:O	44:BO:27:ASN:CB	2.65	0.43
44:BO:73:MET:HE2	44:BO:103:LEU:CD2	2.42	0.43
44:BO:84:VAL:HG21	51:BV:88:LYS:CE	2.48	0.43
44:BO:99:GLN:O	44:BO:102:GLY:HA2	2.18	0.43
45:BP:41:ARG:CB	45:BP:41:ARG:CZ	2.95	0.43
46:BQ:54:VAL:CG1	46:BQ:58:GLU:OE1	2.66	0.43
47:BR:46:GLU:O	47:BR:49:HIS:CB	2.64	0.43
49:BT:26:ARG:HG3	49:BT:26:ARG:HH11	1.83	0.43
49:BT:66:PRO:HG2	49:BT:71:ARG:NH1	2.32	0.43
50:BU:86:GLU:O	50:BU:89:LEU:N	2.50	0.43
52:BW:38:SER:OG	52:BW:39:THR:N	2.50	0.43
53:BX:10:LEU:HD12	53:BX:11:SER:N	2.32	0.43
53:BX:61:SER:HG	53:BX:62:LEU:H	1.63	0.43
53:BX:64:ASP:C	53:BX:66:ALA:N	2.71	0.43
55:CA:18:LYS:HD2	57:CA:701:GCP:PG	2.58	0.43
55:CA:89:MET:HB2	55:CA:89:MET:HE2	1.74	0.43
55:CA:167:ALA:C	55:CA:169:ASN:H	2.25	0.43
55:CA:173:GLY:CA	55:CA:174:LEU:C	2.90	0.43
55:CA:322:GLU:N	55:CA:323:GLY:CA	2.77	0.43
55:CA:408:GLU:O	55:CA:410:GLN:N	2.51	0.43
55:CA:449:ILE:O	55:CA:451:PHE:N	2.49	0.43
55:CA:572:ILE:HG22	55:CA:587:ILE:CG2	2.48	0.43
1:AA:49:A:N7	1:AA:177:G:C6	2.86	0.43
1:AA:55:G:C2	1:AA:56:A:C8	3.07	0.43
1:AA:197:A:C6	1:AA:2430:A:N7	2.86	0.43
1:AA:224:G:N7	1:AA:420:C:H5'	2.33	0.43
1:AA:247:G:H22	31:Ae:8:LYS:CG	2.31	0.43
1:AA:295:G:C2'	1:AA:296:C:H5'	2.47	0.43
1:AA:332:A:C2'	1:AA:334:C:OP2	2.66	0.43
1:AA:397:G:OP2	27:Aa:59:PHE:CZ	2.67	0.43
1:AA:457:A:H1'	1:AA:459:U:C4	2.53	0.43
1:AA:565:C:OP2	19:AS:82:ARG:HA	2.18	0.43
1:AA:674:G:O3'	6:AF:74:ARG:CZ	2.66	0.43
1:AA:682:G:H2'	1:AA:683:C:C6	2.53	0.43
1:AA:783:A:O3'	1:AA:2589:A:P	2.76	0.43
1:AA:824:A:C5	1:AA:825:C:N4	2.86	0.43
1:AA:908:C:H2'	1:AA:909:A:C5'	2.48	0.43
1:AA:1080:C:C4'	10:AJ:128:ALA:C	2.89	0.43
1:AA:1183:G:P	1:AA:1183:G:C3'	3.06	0.43
1:AA:1212:G:H1'	1:AA:1237:A:N6	2.33	0.43
1:AA:1223:C:O2	1:AA:1225:C:C5'	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1267:U:C4	1:AA:2012:G:N2	2.86	0.43
1:AA:1279:G:C6	1:AA:1280:G:C6	3.06	0.43
1:AA:1297:C:OP1	1:AA:2710:C:O3'	2.35	0.43
1:AA:1302:A:H3'	1:AA:1303:G:H5'	2.00	0.43
1:AA:1326:U:C2	1:AA:1327:C:O4'	2.71	0.43
1:AA:1448:G:N2	1:AA:1529:A:H2	2.16	0.43
1:AA:1471:A:C6	1:AA:1473:G:C8	3.06	0.43
1:AA:1529:A:H8	1:AA:1530:G:C4	2.36	0.43
1:AA:1540:G:C3'	1:AA:1541:U:C5'	2.96	0.43
1:AA:1565:C:OP1	4:AD:24:ILE:HG23	2.18	0.43
1:AA:1568:G:P	4:AD:61:LEU:HD12	2.58	0.43
1:AA:1593:G:H2'	1:AA:1594:G:O4'	2.18	0.43
1:AA:1620:G:C6	1:AA:1621:U:C4	3.06	0.43
1:AA:1662:C:N3	1:AA:1663:C:C4	2.85	0.43
1:AA:1697:G:O6	1:AA:1698:A:C6	2.72	0.43
1:AA:1709:U:C4	1:AA:1710:C:N4	2.86	0.43
1:AA:1728:G:N2	1:AA:1730:U:O2	2.51	0.43
1:AA:1746:G:C4	1:AA:1747:G:C8	3.06	0.43
1:AA:1774:C:H5	1:AA:1775:U:C5	2.26	0.43
1:AA:1795:C:H6	1:AA:1795:C:O5'	2.01	0.43
1:AA:1914:C:C4	1:AA:1915:U:O4	2.72	0.43
1:AA:1914:C:C4	1:AA:1915:U:H5	2.17	0.43
1:AA:1991:U:O5'	1:AA:1991:U:H6	2.01	0.43
1:AA:1992:G:N7	1:AA:1997:G:N1	2.66	0.43
1:AA:2026:C:C2	1:AA:2027:G:C8	3.06	0.43
1:AA:2033:A:H2'	1:AA:2034:U:O5'	2.18	0.43
1:AA:2135:A:C2'	1:AA:2136:C:OP2	2.66	0.43
1:AA:2205:C:H2'	1:AA:2206:C:C6	2.52	0.43
1:AA:2245:U:H1'	1:AA:2435:A:H3'	2.00	0.43
1:AA:2289:G:OP2	1:AA:2289:G:C8	2.71	0.43
1:AA:2392:A:N6	1:AA:2393:A:C6	2.85	0.43
1:AA:2397:G:O2'	1:AA:2398:U:H5'	2.18	0.43
1:AA:2423:U:H1'	1:AA:2425:A:N9	2.34	0.43
1:AA:2466:C:OP1	32:Af:5:ALA:CB	2.65	0.43
1:AA:2485:G:H4'	14:AN:125:LEU:O	2.19	0.43
1:AA:2487:G:C2'	1:AA:2488:A:O5'	2.66	0.43
1:AA:2531:A:O2'	1:AA:2532:G:C5'	2.66	0.43
1:AA:2545:G:HO2'	1:AA:2565:A:H61	1.66	0.43
1:AA:2589:A:N3	1:AA:2590:A:C8	2.86	0.43
1:AA:2606:C:H5'	1:AA:2606:C:C6	2.38	0.43
1:AA:2630:G:H1'	1:AA:2894:G:C5'	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2642:G:N1	1:AA:2643:G:C5	2.86	0.43
1:AA:2648:C:C4	1:AA:2649:U:O4	2.71	0.43
1:AA:2787:C:H4'	5:AE:60:ASN:OD1	2.17	0.43
1:AA:2818:G:C2	1:AA:2819:G:C8	3.06	0.43
1:AA:2825:C:H2'	1:AA:2826:A:C8	2.53	0.43
3:AC:19:ILE:CD1	3:AC:223:ARG:HH11	2.31	0.43
3:AC:22:ILE:HD12	3:AC:190:ARG:CZ	2.48	0.43
3:AC:73:ARG:CG	3:AC:93:TYR:HE2	2.30	0.43
3:AC:103:ILE:HD13	3:AC:110:PHE:HZ	1.83	0.43
3:AC:156:ILE:HA	3:AC:160:ARG:CG	2.49	0.43
4:AD:65:ILE:CD1	4:AD:104:TYR:CB	2.96	0.43
4:AD:96:HIS:CE1	4:AD:102:LYS:CD	2.93	0.43
4:AD:173:VAL:O	4:AD:184:LYS:CG	2.65	0.43
5:AE:51:PHE:CD1	5:AE:76:ARG:CG	2.98	0.43
5:AE:201:THR:O	5:AE:202:LYS:CB	2.63	0.43
6:AF:51:THR:O	6:AF:52:LYS:CG	2.64	0.43
6:AF:69:HIS:O	6:AF:69:HIS:CG	2.71	0.43
6:AF:142:TRP:C	6:AF:142:TRP:CD1	2.94	0.43
6:AF:143:ALA:O	6:AF:144:LYS:C	2.61	0.43
7:AG:4:ASP:CA	7:AG:7:LEU:HB2	2.46	0.43
7:AG:22:ARG:CG	7:AG:23:PHE:N	2.80	0.43
7:AG:57:ALA:HB1	7:AG:67:LYS:HG3	2.00	0.43
8:AH:7:LEU:CA	8:AH:52:VAL:CG1	2.95	0.43
8:AH:153:LYS:HD3	8:AH:154:PRO:HD3	2.00	0.43
11:AK:13:TRP:C	11:AK:14:VAL:HG23	2.43	0.43
11:AK:19:GLU:HB2	11:AK:56:ASN:HB2	1.97	0.43
11:AK:39:ARG:HG2	11:AK:40:PRO:N	2.32	0.43
11:AK:78:TYR:C	11:AK:80:GLY:N	2.75	0.43
12:AL:13:ASN:O	12:AL:13:ASN:CG	2.60	0.43
12:AL:63:VAL:HG21	12:AL:81:ASP:CA	2.48	0.43
12:AL:77:ILE:HG12	17:AQ:75:ILE:HD12	1.99	0.43
12:AL:89:ASN:O	12:AL:90:GLN:CB	2.64	0.43
13:AM:78:PRO:HA	13:AM:81:GLN:NE2	2.33	0.43
14:AN:68:ILE:HG12	14:AN:97:VAL:HG13	2.00	0.43
15:AO:28:LEU:O	15:AO:31:HIS:N	2.52	0.43
15:AO:43:GLU:O	15:AO:46:GLY:N	2.51	0.43
16:AP:75:GLU:O	16:AP:78:LEU:CD1	2.65	0.43
17:AQ:23:ARG:HH21	17:AQ:90:GLN:N	2.16	0.43
17:AQ:50:ILE:HG23	17:AQ:68:TYR:CB	2.48	0.43
17:AQ:115:ARG:CD	34:BA:1463:C:P	2.86	0.43
18:AR:36:ARG:O	18:AR:39:LEU:HB2	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:61:TRP:CB	18:AR:65:ILE:HD11	2.48	0.43
19:AS:5:VAL:HG13	19:AS:39:LEU:CA	2.48	0.43
19:AS:6:LYS:HE3	19:AS:12:TYR:O	2.19	0.43
19:AS:43:GLU:O	19:AS:44:LYS:CD	2.52	0.43
20:AT:14:PRO:N	20:AT:16:LYS:HZ1	2.17	0.43
21:AU:12:VAL:HA	21:AU:29:TRP:NE1	2.33	0.43
21:AU:39:ILE:CB	21:AU:54:VAL:HG11	2.46	0.43
23:AW:169:GLU:O	23:AW:170:THR:CB	2.66	0.43
23:AW:175:VAL:HG22	23:AW:176:PRO:CD	2.37	0.43
24:AX:33:ALA:HA	24:AX:61:ALA:C	2.43	0.43
25:AY:1:MET:O	25:AY:2:ARG:C	2.60	0.43
25:AY:60:ASN:O	25:AY:61:GLU:C	2.61	0.43
26:AZ:5:LYS:C	26:AZ:6:VAL:HG22	2.43	0.43
26:AZ:31:LEU:HD22	26:AZ:31:LEU:HA	1.71	0.43
26:AZ:45:GLY:O	26:AZ:48:GLU:CG	2.50	0.43
27:Aa:59:PHE:CA	27:Aa:62:ARG:NH1	2.82	0.43
29:Ac:17:LYS:C	29:Ac:19:ARG:H	2.26	0.43
31:Ae:3:LYS:HZ3	31:Ae:59:LYS:HE3	1.82	0.43
34:BA:102:G:C6	34:BA:103:C:C5	3.07	0.43
34:BA:318:G:O2'	34:BA:1469:G:OP1	2.36	0.43
34:BA:323:U:C6	34:BA:323:U:C3'	3.01	0.43
34:BA:363:A:P	45:BP:33:ARG:HH21	2.42	0.43
34:BA:366:C:O2'	34:BA:367:U:O5'	2.26	0.43
34:BA:383:A:OP2	34:BA:383:A:H8	2.01	0.43
34:BA:394:G:C5	34:BA:395:C:C5	3.06	0.43
34:BA:525:C:H6	34:BA:525:C:O5'	2.02	0.43
34:BA:540:G:H21	37:BH:42:GLN:CD	2.25	0.43
34:BA:545:C:O2'	34:BA:546:G:C5'	2.55	0.43
34:BA:625:G:C4	34:BA:626:U:C5	3.06	0.43
34:BA:643:C:N3	34:BA:644:G:C8	2.86	0.43
34:BA:679:C:O2'	34:BA:680:C:C5'	2.65	0.43
34:BA:734:G:H2'	34:BA:735:C:C5	2.50	0.43
34:BA:830:G:C5	34:BA:831:U:C5	3.06	0.43
34:BA:831:U:H2'	34:BA:832:C:O4'	2.18	0.43
34:BA:874:G:N2	34:BA:875:C:N1	2.66	0.43
34:BA:902:G:H2'	34:BA:903:G:C8	2.50	0.43
34:BA:907:A:N3	34:BA:908:A:C8	2.86	0.43
34:BA:938:A:C2'	34:BA:939:G:O5'	2.66	0.43
34:BA:977:A:C4'	34:BA:982:U:O4	2.66	0.43
34:BA:1003:G:H21	34:BA:1005:A:H5'	1.82	0.43
34:BA:1107:C:C2'	34:BA:1108:G:C5'	2.96	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1234:C:N4	34:BA:1235:U:C4	2.86	0.43
34:BA:1363:A:N3	34:BA:1365:G:O6	2.51	0.43
34:BA:1397:C:O2'	34:BA:1398:A:OP2	2.33	0.43
34:BA:1487:G:N3	34:BA:1488:G:C8	2.86	0.43
35:BF:21:ARG:HE	35:BF:21:ARG:H	1.63	0.43
35:BF:122:PHE:HB3	35:BF:123:ALA:H	1.56	0.43
35:BF:187:LEU:CD2	35:BF:188:ALA:N	2.76	0.43
36:BG:62:ASP:O	36:BG:63:ASN:CG	2.60	0.43
36:BG:186:PHE:CD1	36:BG:186:PHE:C	2.90	0.43
36:BG:190:ARG:O	36:BG:191:THR:O	2.36	0.43
37:BH:76:ARG:O	37:BH:80:GLU:HG3	2.18	0.43
37:BH:166:LYS:CD	37:BH:178:VAL:HG12	2.48	0.43
38:BI:95:ALA:H	38:BI:96:PRO:CD	2.31	0.43
39:BJ:89:MET:CB	51:BV:76:LEU:HD11	2.40	0.43
39:BJ:99:ALA:HB3	51:BV:31:LEU:HD11	2.01	0.43
39:BJ:100:ASN:C	39:BJ:100:ASN:HD22	2.27	0.43
40:BK:27:ILE:CG1	40:BK:43:PHE:CD1	2.99	0.43
41:BL:6:ILE:CG2	41:BL:7:ALA:N	2.59	0.43
43:BN:65:LEU:CD1	47:BR:36:PHE:CZ	3.02	0.43
43:BN:82:ILE:HD13	43:BN:86:MET:HE1	2.00	0.43
44:BO:25:TYR:OH	44:BO:87:THR:HB	2.18	0.43
44:BO:63:LEU:CA	44:BO:66:LEU:HG	2.47	0.43
44:BO:67:ASP:C	44:BO:69:ALA:N	2.73	0.43
45:BP:34:ARG:CA	45:BP:84:LEU:HD12	2.48	0.43
45:BP:39:VAL:HG11	45:BP:41:ARG:HH22	1.83	0.43
45:BP:82:VAL:CG1	45:BP:83:VAL:N	2.77	0.43
45:BP:98:TYR:CD1	45:BP:98:TYR:N	2.86	0.43
46:BQ:53:VAL:O	46:BQ:57:ARG:HB2	2.17	0.43
47:BR:6:LEU:C	47:BR:8:GLU:H	2.26	0.43
47:BR:34:TYR:HB2	47:BR:35:ARG:H	1.51	0.43
50:BU:60:ILE:CD1	50:BU:62:SER:HA	2.48	0.43
51:BV:21:LYS:C	51:BV:55:ARG:NH1	2.76	0.43
52:BW:28:LYS:O	52:BW:29:ARG:HB2	2.18	0.43
53:BX:20:LEU:O	53:BX:24:LEU:HG	2.17	0.43
55:CA:101:ALA:C	55:CA:135:ALA:CB	2.74	0.43
1:AA:13:A:N6	1:AA:525:U:C5	2.74	0.43
1:AA:20:C:H2'	1:AA:21:A:H8	1.83	0.43
1:AA:30:G:N7	1:AA:31:C:C5	2.86	0.43
1:AA:76:C:C5	1:AA:76:C:OP2	2.70	0.43
1:AA:118:A:H1'	1:AA:178:G:C4'	2.48	0.43
1:AA:179:G:C5	1:AA:180:G:C5	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:237:C:O2'	1:AA:608:A:H4'	2.17	0.43
1:AA:246:C:H2'	1:AA:247:G:C8	2.52	0.43
1:AA:270(X):G:C2	1:AA:270(Y):G:Cl'	3.01	0.43
1:AA:270(Z):U:O2	1:AA:270(Z):U:C2'	2.56	0.43
1:AA:297:C:H5''	22:AV:83:THR:CB	2.46	0.43
1:AA:300:A:H3'	1:AA:300:A:H8	1.84	0.43
1:AA:324:A:H2	1:AA:325:G:H1'	1.82	0.43
1:AA:371:A:C5	1:AA:424:G:O4'	2.69	0.43
1:AA:422:A:C2'	1:AA:423:A:O5'	2.65	0.43
1:AA:458:G:H2'	30:Ad:40:TRP:CD1	2.53	0.43
1:AA:543:C:O2	1:AA:544:C:C5	2.71	0.43
1:AA:548:A:H61	1:AA:549:G:H21	1.62	0.43
1:AA:559:G:C2'	1:AA:560:C:O4'	2.65	0.43
1:AA:562:U:C5	1:AA:2036:C:O4'	2.71	0.43
1:AA:566:U:C4'	19:AS:82:ARG:HH22	2.31	0.43
1:AA:577:G:O6	1:AA:578:A:N6	2.52	0.43
1:AA:622:G:O2'	1:AA:623:G:H5'	2.18	0.43
1:AA:623:G:P	13:AM:105:LEU:CD2	3.03	0.43
1:AA:630:G:N2	1:AA:634:C:C4	2.86	0.43
1:AA:662:G:OP1	13:AM:19:VAL:HG11	2.17	0.43
1:AA:800:A:N7	1:AA:802:A:O4'	2.52	0.43
1:AA:804:A:O3'	1:AA:806:C:N4	2.52	0.43
1:AA:860:U:H5	1:AA:2267:A:C4'	2.31	0.43
1:AA:885:C:OP2	1:AA:886:C:C4	2.70	0.43
1:AA:1081:U:H2'	1:AA:1082:U:H5'	2.00	0.43
1:AA:1128:A:O4'	1:AA:1128:A:OP2	2.35	0.43
1:AA:1137:G:H2'	1:AA:1138:G:O5'	2.17	0.43
1:AA:1171:G:O4'	1:AA:1171:G:P	2.76	0.43
1:AA:1210:A:H4'	1:AA:1211:U:C5'	2.48	0.43
1:AA:1260:G:N3	1:AA:1260:G:H2'	2.33	0.43
1:AA:1613:G:P	30:Ad:5:TRP:CD1	3.09	0.43
1:AA:1659:U:H2'	1:AA:1660:C:H6	1.84	0.43
1:AA:1662:C:C2	1:AA:1663:C:C5	3.07	0.43
1:AA:1789:A:H4'	4:AD:222:ARG:NE	2.33	0.43
1:AA:1907:G:C6	56:AA:3001:NMY:C8	2.93	0.43
1:AA:1907:G:C2	1:AA:1908:C:C2	3.06	0.43
1:AA:1909:C:O2	1:AA:1921:G:N2	2.51	0.43
1:AA:1914:C:OP2	1:AA:1914:C:C5	2.70	0.43
1:AA:1917:U:H6	1:AA:1917:U:H3'	1.83	0.43
1:AA:1942:C:C6	1:AA:1943:U:C5	3.06	0.43
1:AA:1977:A:H2	1:AA:1978:A:H1'	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2082:A:C2	1:AA:2083:G:C4	3.06	0.43
1:AA:2119:A:C6	1:AA:2170:A:C6	3.06	0.43
1:AA:2178:C:H1'	3:AC:168:THR:OG1	2.19	0.43
1:AA:2227:A:C4'	4:AD:262:ARG:HD2	2.48	0.43
1:AA:2303:G:N1	1:AA:2304:G:C5	2.86	0.43
1:AA:2345:G:OP1	29:Ac:39:TYR:O	2.35	0.43
1:AA:2356:C:H2'	1:AA:2357:U:O5'	2.18	0.43
1:AA:2358:G:C8	1:AA:2358:G:OP1	2.71	0.43
1:AA:2373:G:H2'	1:AA:2374:C:H5	1.82	0.43
1:AA:2439:A:H2'	1:AA:2439:A:N3	2.32	0.43
1:AA:2493:U:H6	1:AA:2493:U:C3'	2.19	0.43
1:AA:2526:G:C6	1:AA:2527:C:C5	3.05	0.43
1:AA:2532:G:C5	1:AA:2533:A:C5	3.06	0.43
1:AA:2544:G:H2'	1:AA:2545:G:C4'	2.48	0.43
1:AA:2571:C:C2'	1:AA:2572:A:OP1	2.67	0.43
1:AA:2595:G:C2	1:AA:2599:G:C6	3.06	0.43
1:AA:2694:G:H8	1:AA:2694:G:O5'	2.01	0.43
1:AA:2716:U:H2'	1:AA:2717:G:O5'	2.15	0.43
1:AA:2717:G:N3	1:AA:2718:G:C8	2.86	0.43
1:AA:2717:G:H2'	1:AA:2718:G:H8	1.83	0.43
1:AA:2739:U:O2'	1:AA:2740:A:H5'	2.19	0.43
2:AB:76:G:C1'	23:AW:75:ASN:ND2	2.81	0.43
3:AC:47:LEU:HD23	3:AC:169:GLY:O	2.18	0.43
4:AD:54:ARG:HB3	4:AD:218:ARG:CB	2.44	0.43
4:AD:126:GLN:NE2	4:AD:129:ASN:OD1	2.37	0.43
4:AD:133:LEU:HB2	4:AD:134:ARG:H	1.64	0.43
4:AD:160:GLY:N	4:AD:196:VAL:HG21	2.32	0.43
4:AD:258:LYS:CA	4:AD:261:LYS:NZ	2.71	0.43
5:AE:4:ILE:O	5:AE:27:LEU:CD2	2.57	0.43
5:AE:37:ARG:N	5:AE:40:GLU:HB2	2.33	0.43
5:AE:115:GLY:O	5:AE:116:VAL:C	2.60	0.43
5:AE:119:ARG:HH21	5:AE:120:TRP:CA	2.30	0.43
6:AF:6:VAL:HB	6:AF:18:ARG:CD	2.40	0.43
6:AF:39:TRP:CE2	6:AF:106:ARG:NH1	2.87	0.43
6:AF:96:ASP:OD1	6:AF:97:TYR:N	2.51	0.43
7:AG:55:LYS:CD	7:AG:147:ASP:O	2.54	0.43
7:AG:82:LEU:C	7:AG:83:ARG:HD2	2.43	0.43
7:AG:131:TYR:CD2	7:AG:158:ALA:CB	3.01	0.43
7:AG:131:TYR:CE2	7:AG:132:ASN:HA	2.53	0.43
7:AG:153:ARG:N	7:AG:155:MET:HE1	2.32	0.43
7:AG:174:GLU:C	7:AG:179:PRO:HD3	2.43	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:7:LEU:HD12	8:AH:51:ARG:HD2	1.98	0.43
8:AH:99:VAL:O	8:AH:99:VAL:HG12	2.18	0.43
10:AJ:51:ALA:HB1	10:AJ:76:TYR:C	2.43	0.43
11:AK:91:LEU:HD23	11:AK:98:VAL:CG2	2.40	0.43
11:AK:136:GLU:C	11:AK:136:GLU:OE1	2.61	0.43
12:AL:42:SER:CA	12:AL:55:GLY:O	2.66	0.43
12:AL:72:PRO:HB2	17:AQ:84:GLN:HE21	1.84	0.43
12:AL:88:ASN:C	12:AL:90:GLN:H	2.25	0.43
13:AM:46:LYS:NZ	13:AM:50:ARG:HH21	2.14	0.43
13:AM:48:PRO:O	13:AM:52:GLU:CD	2.62	0.43
13:AM:74:GLU:CB	13:AM:107:LYS:HD3	2.49	0.43
13:AM:76:LYS:CE	13:AM:81:GLN:CD	2.91	0.43
13:AM:81:GLN:CA	13:AM:86:LYS:HG2	2.48	0.43
13:AM:113:LYS:CA	13:AM:129:ALA:HB3	2.47	0.43
13:AM:113:LYS:CG	13:AM:114:ILE:N	2.80	0.43
14:AN:27:VAL:HG12	14:AN:102:VAL:HG21	1.99	0.43
14:AN:139:GLU:OE1	14:AN:140:ALA:O	2.36	0.43
15:AO:49:ASP:OD1	15:AO:50:HIS:N	2.51	0.43
15:AO:105:ARG:O	15:AO:107:ASP:N	2.43	0.43
16:AP:20:ARG:HG2	16:AP:20:ARG:H	1.60	0.43
16:AP:52:SER:OG	16:AP:69:VAL:CG1	2.66	0.43
16:AP:69:VAL:O	16:AP:73:LEU:HD22	2.18	0.43
18:AR:84:LYS:C	18:AR:86:ALA:N	2.71	0.43
18:AR:87:GLY:C	18:AR:89:GLU:N	2.76	0.43
20:AT:20:VAL:HG21	20:AT:47:VAL:HG11	2.01	0.43
20:AT:25:ARG:NE	20:AT:75:TYR:CE1	2.86	0.43
21:AU:6:ASP:O	21:AU:7:VAL:C	2.61	0.43
21:AU:6:ASP:OD1	21:AU:7:VAL:N	2.49	0.43
22:AV:26:LYS:NZ	22:AV:36:ALA:HB3	2.32	0.43
22:AV:81:LYS:CG	22:AV:96:ILE:HG23	2.38	0.43
23:AW:1:MET:CE	23:AW:59:LEU:HD22	2.46	0.43
23:AW:30:ASN:C	23:AW:89:PHE:HE1	2.26	0.43
23:AW:31:ARG:HG2	23:AW:31:ARG:NH1	2.32	0.43
24:AX:52:GLY:O	24:AX:60:PHE:CD2	2.71	0.43
28:Ab:8:LYS:HB2	28:Ab:9:LYS:HE2	2.00	0.43
28:Ab:55:ARG:C	28:Ab:56:LYS:HG2	2.43	0.43
29:Ac:19:ARG:HH22	29:Ac:41:PRO:CD	2.31	0.43
31:Ae:6:THR:HG23	31:Ae:9:GLY:N	2.33	0.43
31:Ae:12:LYS:O	31:Ae:14:VAL:HG23	2.18	0.43
34:BA:50:A:C6	34:BA:361:G:O4'	2.71	0.43
34:BA:88:C:O2'	34:BA:89:U:O5'	2.35	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:108:G:C5	53:BX:15:ARG:CZ	3.01	0.43
34:BA:129(A):G:C8	34:BA:189:U:OP1	2.72	0.43
34:BA:251:G:N3	34:BA:266:G:O6	2.51	0.43
34:BA:255:G:OP1	50:BU:69:LYS:HE2	2.18	0.43
34:BA:321:A:C4	34:BA:322:C:C5	3.06	0.43
34:BA:342:C:C2	34:BA:348:G:C2	3.06	0.43
34:BA:414:A:C4	34:BA:415:A:C8	3.06	0.43
34:BA:428:G:O2'	34:BA:429:U:O5'	2.36	0.43
34:BA:517:G:C8	34:BA:531:U:C6	3.06	0.43
34:BA:518:C:C5	34:BA:530:G:C8	3.07	0.43
34:BA:540:G:C5	34:BA:541:G:N7	2.86	0.43
34:BA:645:C:O2'	34:BA:646:U:H5'	2.18	0.43
34:BA:696:A:N1	34:BA:697:U:H1'	2.34	0.43
34:BA:721:G:H1'	34:BA:722:A:C6	2.53	0.43
34:BA:763:G:C2	34:BA:764:C:C6	3.07	0.43
34:BA:892:A:H2'	34:BA:893:C:C6	2.53	0.43
34:BA:920:U:H2'	34:BA:921:U:C6	2.50	0.43
34:BA:1003:G:O5'	34:BA:1003:G:C8	2.67	0.43
34:BA:1004:A:C3'	34:BA:1025:U:C4	2.89	0.43
34:BA:1110:A:C5	34:BA:1111:A:C8	3.06	0.43
34:BA:1180:A:O2'	34:BA:1181:G:C5'	2.66	0.43
34:BA:1227:A:C8	34:BA:1228:C:C6	3.06	0.43
34:BA:1301:U:O4	34:BA:1303:C:H1'	2.18	0.43
34:BA:1349:A:H2'	34:BA:1350:A:O4'	2.17	0.43
34:BA:1396:A:H2'	34:BA:1397:C:OP2	2.17	0.43
34:BA:1399:C:O2	34:BA:1401:G:N7	2.50	0.43
34:BA:1410:G:C6	34:BA:1411:C:N4	2.86	0.43
34:BA:1436:U:O2'	34:BA:1437:C:H5'	2.17	0.43
35:BF:19:HIS:C	35:BF:20:GLU:CG	2.91	0.43
35:BF:59:GLU:O	35:BF:60:ASP:C	2.62	0.43
35:BF:80:ILE:HG23	35:BF:212:GLN:NE2	2.32	0.43
35:BF:171:ALA:N	35:BF:174:VAL:HG23	2.32	0.43
35:BF:181:PHE:CE1	41:BL:71:GLY:HA3	2.52	0.43
36:BG:8:ILE:CG2	47:BR:49:HIS:O	2.66	0.43
36:BG:15:THR:HG23	36:BG:15:THR:O	2.18	0.43
36:BG:151:VAL:C	36:BG:152:ILE:HG23	2.43	0.43
37:BH:98:GLU:OE1	37:BH:107:ARG:HG3	2.18	0.43
37:BH:101:LEU:C	37:BH:101:LEU:HD12	2.43	0.43
37:BH:134:ASP:O	37:BH:134:ASP:OD2	2.36	0.43
37:BH:135:LEU:HB2	37:BH:138:TYR:HB2	1.99	0.43
38:BI:15:ARG:HH11	38:BI:15:ARG:CG	2.31	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:82:VAL:HB	38:BI:138:ALA:HB2	2.00	0.43
39:BJ:9:VAL:HA	39:BJ:10:LEU:HD23	2.00	0.43
39:BJ:11:ASN:OD1	39:BJ:11:ASN:C	2.61	0.43
42:BM:23:ASN:ND2	42:BM:23:ASN:C	2.74	0.43
42:BM:33:PHE:C	42:BM:35:GLU:H	2.25	0.43
42:BM:33:PHE:HE1	42:BM:47:LEU:HB2	1.84	0.43
43:BN:3:LYS:N	43:BN:3:LYS:HD2	2.33	0.43
44:BO:42:TRP:CZ3	44:BO:47:VAL:HG22	2.53	0.43
45:BP:41:ARG:HG2	45:BP:42:THR:HG22	2.00	0.43
45:BP:52:LEU:N	45:BP:52:LEU:CD2	2.79	0.43
45:BP:113:ARG:NH2	45:BP:116:SER:O	2.42	0.43
48:BS:27:VAL:O	48:BS:31:LEU:HD13	2.18	0.43
48:BS:71:GLN:HA	48:BS:75:PRO:HB3	1.98	0.43
49:BT:8:ARG:C	49:BT:9:PHE:CD2	2.84	0.43
49:BT:16:HIS:C	49:BT:17:TYR:CD1	2.96	0.43
51:BV:58:LEU:HB3	51:BV:62:GLU:CG	2.43	0.43
53:BX:17:ARG:HA	53:BX:20:LEU:HG	2.00	0.43
53:BX:54:LYS:HA	53:BX:57:ARG:CD	2.49	0.43
55:CA:101:ALA:O	55:CA:135:ALA:C	2.61	0.43
55:CA:169:ASN:ND2	55:CA:182:ASP:O	2.50	0.43
55:CA:325:PHE:HB3	55:CA:330:GLN:CG	2.47	0.43
55:CA:402:ASN:C	55:CA:403:VAL:HG23	2.43	0.43
1:AA:20:C:HO2'	1:AA:21:A:H5'	1.76	0.43
1:AA:58:G:H2'	1:AA:73:A:C2	2.44	0.43
1:AA:110:G:O6	1:AA:111:A:N6	2.51	0.43
1:AA:117:G:C2	1:AA:119:A:N6	2.85	0.43
1:AA:146:G:C5	1:AA:147:U:C6	3.06	0.43
1:AA:203:C:C6	1:AA:204:A:C8	3.07	0.43
1:AA:270(K):C:H3'	1:AA:270(L):U:C6	2.45	0.43
1:AA:388:G:OP2	27:Aa:23:GLU:CD	2.62	0.43
1:AA:389:G:C6	13:AM:64:LYS:HG2	2.54	0.43
1:AA:447:A:O2'	1:AA:448:U:C5'	2.66	0.43
1:AA:463:G:O3'	1:AA:464:U:C5	2.71	0.43
1:AA:482:A:N6	1:AA:506:G:C6	2.87	0.43
1:AA:507:A:H5'	1:AA:509:C:O4'	2.18	0.43
1:AA:685:A:C2	1:AA:774:A:N1	2.87	0.43
1:AA:731:C:H2'	1:AA:732:C:H5'	2.00	0.43
1:AA:813:U:C2	1:AA:814:C:C6	3.07	0.43
1:AA:855:G:C6	1:AA:856:C:C4	3.07	0.43
1:AA:862:G:H21	2:AB:99:A:H2	1.62	0.43
1:AA:902:C:H3'	1:AA:903:C:C5	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:909:A:C2	1:AA:912:C:N1	2.87	0.43
1:AA:943:U:OP2	13:AM:32:THR:HB	2.18	0.43
1:AA:958:U:HO2'	1:AA:959:A:P	2.41	0.43
1:AA:1006:C:C2	1:AA:1137:G:N2	2.87	0.43
1:AA:1011:G:O6	1:AA:1151:G:C6	2.71	0.43
1:AA:1022:G:N7	1:AA:1139:G:C6	2.87	0.43
1:AA:1025:G:H8	1:AA:1134:G:C1'	2.31	0.43
1:AA:1052:C:C2'	1:AA:1053:C:H5'	2.47	0.43
1:AA:1080:C:O4'	10:AJ:128:ALA:CA	2.66	0.43
1:AA:1213:A:C4	1:AA:1214:A:C8	3.06	0.43
1:AA:1298:C:H4'	1:AA:1302:A:H62	1.83	0.43
1:AA:1353:A:O2'	1:AA:1354:A:H5'	2.19	0.43
1:AA:1466:G:O2'	1:AA:1546:C:H4'	2.18	0.43
1:AA:1533:C:C4	1:AA:1539:G:N2	2.85	0.43
1:AA:1535:U:H3'	1:AA:1536:A:H8	1.82	0.43
1:AA:1569:A:H4'	4:AD:39:LYS:HE2	2.00	0.43
1:AA:1603:A:N3	1:AA:1603:A:H2'	2.33	0.43
1:AA:1608:A:C2	1:AA:1611:C:C6	3.06	0.43
1:AA:1620:G:C2'	1:AA:1621:U:O5'	2.67	0.43
1:AA:1654:A:C6	1:AA:1655:A:N7	2.87	0.43
1:AA:1656:C:H2'	1:AA:1656:C:O2	2.19	0.43
1:AA:1682:G:H3'	1:AA:1683:C:H5	1.83	0.43
1:AA:1820:U:C1'	4:AD:202:LYS:HG2	2.48	0.43
1:AA:1919:A:O5'	1:AA:1919:A:C8	2.71	0.43
1:AA:2044:C:C5	1:AA:2625:G:C2	3.06	0.43
1:AA:2084:C:N3	1:AA:2085:C:C5	2.87	0.43
1:AA:2133:G:O6	1:AA:2157:G:N9	2.51	0.43
1:AA:2334:G:OP2	16:AP:8:GLU:OE2	2.35	0.43
1:AA:2406:U:C4	13:AM:65:ARG:HB3	2.54	0.43
1:AA:2431:U:O2	1:AA:2433:A:N3	2.51	0.43
1:AA:2460:U:H2'	1:AA:2461:C:C5	2.54	0.43
1:AA:2474:C:H6	1:AA:2474:C:O5'	2.01	0.43
1:AA:2482:G:C4	1:AA:2483:C:C6	3.06	0.43
1:AA:2556:C:H2'	1:AA:2557:G:C5'	2.49	0.43
1:AA:2629:A:C5'	1:AA:2895:U:C1'	2.86	0.43
1:AA:2710:C:C2'	1:AA:2711:A:C5'	2.92	0.43
1:AA:2729:G:C5	1:AA:2730:C:C5	3.07	0.43
1:AA:2737:G:C6	1:AA:2738:A:N7	2.86	0.43
1:AA:2774:C:H2'	1:AA:2774:C:O2	2.17	0.43
1:AA:2875:C:O5'	1:AA:2875:C:H6	2.01	0.43
1:AA:2876:G:C2	1:AA:2877:G:C8	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2880:C:C6	15:AO:91:GLN:HB3	2.52	0.43
2:AB:12:C:C4'	24:AX:74:ARG:HE	2.27	0.43
2:AB:12:C:N4	24:AX:74:ARG:O	2.51	0.43
2:AB:83:G:N2	2:AB:84:C:C1'	2.81	0.43
3:AC:89:ALA:HB1	3:AC:154:ARG:HA	1.95	0.43
3:AC:89:ALA:CB	3:AC:150:GLY:O	2.66	0.43
3:AC:103:ILE:HG21	3:AC:108:MET:SD	2.58	0.43
3:AC:120:MET:CE	3:AC:145:VAL:HG22	2.49	0.43
3:AC:225:ASN:O	3:AC:227:HIS:N	2.51	0.43
4:AD:55:GLY:CA	4:AD:217:ARG:NH2	2.81	0.43
4:AD:61:LEU:HB3	4:AD:62:TYR:H	1.44	0.43
4:AD:70:TRP:O	4:AD:73:VAL:HG22	2.18	0.43
4:AD:198:ASN:HD21	4:AD:201:HIS:HB2	1.83	0.43
4:AD:219:PRO:C	4:AD:220:HIS:ND1	2.77	0.43
5:AE:5:LEU:HD13	5:AE:197:ILE:HA	2.00	0.43
6:AF:62:ARG:HG3	6:AF:63:LYS:HD3	2.00	0.43
7:AG:50:ALA:HA	7:AG:70:VAL:HG22	1.99	0.43
7:AG:105:LYS:O	7:AG:109:VAL:CG2	2.53	0.43
8:AH:89:ILE:O	8:AH:89:ILE:HG23	2.18	0.43
11:AK:19:GLU:HG2	11:AK:20:GLY:N	2.33	0.43
13:AM:35:HIS:O	13:AM:36:LYS:CD	2.65	0.43
13:AM:45:LEU:CD1	31:Ae:3:LYS:NZ	2.80	0.43
13:AM:97:PRO:C	13:AM:99:LEU:N	2.74	0.43
13:AM:114:ILE:CB	13:AM:130:PHE:HA	2.48	0.43
14:AN:79:LEU:O	14:AN:80:GLU:HB3	2.18	0.43
15:AO:72:ASP:C	15:AO:76:VAL:HG23	2.42	0.43
15:AO:90:ARG:HB2	15:AO:94:TYR:HE1	1.82	0.43
16:AP:11:LYS:N	16:AP:11:LYS:HD2	2.33	0.43
17:AQ:30:VAL:CG2	17:AQ:89:VAL:O	2.54	0.43
18:AR:74:LEU:HD23	18:AR:75:ASN:H	1.83	0.43
19:AS:15:GLU:O	19:AS:100:ARG:NH2	2.52	0.43
20:AT:19:LEU:CD2	28:Ab:25:LEU:HD22	2.47	0.43
21:AU:5:TYR:HB3	25:AY:24:LYS:HZ3	1.83	0.43
21:AU:25:LYS:C	21:AU:26:TYR:CD1	2.96	0.43
23:AW:14:LYS:N	23:AW:14:LYS:CD	2.80	0.43
23:AW:78:LYS:HE2	23:AW:84:GLU:CD	2.43	0.43
24:AX:70:GLN:OE1	24:AX:80:HIS:CD2	2.71	0.43
25:AY:1:MET:C	25:AY:3:LYS:N	2.74	0.43
25:AY:7:GLU:O	25:AY:10:LYS:HG2	2.18	0.43
25:AY:19:LEU:HD13	25:AY:20:VAL:CA	2.49	0.43
25:AY:28:MET:HB3	25:AY:32:PHE:CE1	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:45:ILE:HD12	25:AY:45:ILE:C	2.44	0.43
27:Aa:5:ILE:HG13	27:Aa:10:VAL:H	1.82	0.43
27:Aa:6:HIS:CG	27:Aa:56:VAL:HA	2.53	0.43
27:Aa:55:ARG:HB3	27:Aa:56:VAL:H	1.57	0.43
27:Aa:57:GLU:CA	27:Aa:61:ARG:NH1	2.81	0.43
27:Aa:58:ARG:HB3	27:Aa:59:PHE:H	1.35	0.43
31:Ae:26:LYS:HD2	31:Ae:45:GLY:H	1.84	0.43
34:BA:136:C:O4'	49:BT:1:MET:CE	2.66	0.43
34:BA:186(B):C:H4'	53:BX:89:ARG:NH2	2.33	0.43
34:BA:217:C:C4	34:BA:218:C:C5	3.07	0.43
34:BA:244:U:H2'	34:BA:245:C:OP2	2.18	0.43
34:BA:247:G:N1	34:BA:278:G:C2	2.86	0.43
34:BA:257:G:C5	34:BA:258:G:C8	3.06	0.43
34:BA:261:U:O4	34:BA:264:U:OP2	2.36	0.43
34:BA:283:C:C2	34:BA:284:G:C8	3.07	0.43
34:BA:408:A:H5'	37:BH:116:GLN:HE21	1.81	0.43
34:BA:450:G:C8	34:BA:481:G:C6	3.06	0.43
34:BA:474:G:OP1	49:BT:80:PHE:C	2.60	0.43
34:BA:513:C:H2'	34:BA:514:C:H6	1.83	0.43
34:BA:531:U:H3'	34:BA:531:U:P	2.59	0.43
34:BA:594:G:C5	34:BA:595:G:N2	2.80	0.43
34:BA:718:G:C4'	44:BO:117:ASN:ND2	2.81	0.43
34:BA:830:G:C2	34:BA:857:C:C2	3.07	0.43
34:BA:887:G:H21	34:BA:1489:G:H4'	1.84	0.43
34:BA:1055:A:H2	36:BG:156:ARG:HD3	1.83	0.43
34:BA:1200:C:C5'	34:BA:1201:A:O3'	2.63	0.43
34:BA:1318:A:C8	52:BW:37:ARG:HG3	2.54	0.43
34:BA:1320:C:N3	52:BW:75:ALA:O	2.51	0.43
34:BA:1342:C:O2'	42:BM:124:GLN:CA	2.66	0.43
34:BA:1350:A:C5	34:BA:1351:U:C5	3.06	0.43
34:BA:1376:U:OP1	40:BK:98:SER:CB	2.66	0.43
34:BA:1401:G:C6	34:BA:1402:C:C2	3.07	0.43
34:BA:1462:G:C6	34:BA:1463:C:C4	3.05	0.43
35:BF:104:ASN:OD1	35:BF:104:ASN:C	2.60	0.43
35:BF:115:LEU:HA	35:BF:145:LEU:HD23	1.99	0.43
35:BF:154:LEU:HB3	35:BF:155:LEU:H	1.69	0.43
35:BF:193:ASP:O	35:BF:194:PRO:O	2.37	0.43
37:BH:30:LYS:HG2	37:BH:35:ARG:HG3	2.00	0.43
37:BH:143:GLY:HA2	37:BH:185:PHE:CD1	2.54	0.43
38:BI:50:GLU:CB	38:BI:53:LEU:HD23	2.48	0.43
38:BI:99:GLY:C	38:BI:101:ILE:CD1	2.92	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:141:GLN:O	38:BI:142:LEU:CB	2.66	0.43
40:BK:72:ARG:HH12	40:BK:138:LYS:HZ1	1.67	0.43
40:BK:129:GLU:HB2	40:BK:131:LYS:HE2	1.99	0.43
41:BL:11:THR:OG1	41:BL:12:ARG:N	2.52	0.43
41:BL:39:LEU:HA	41:BL:39:LEU:HD13	1.71	0.43
41:BL:45:ILE:HD12	41:BL:61:VAL:CG2	2.48	0.43
41:BL:81:HIS:HD2	41:BL:138:TRP:C	2.25	0.43
41:BL:109:ILE:HG13	41:BL:109:ILE:O	2.14	0.43
41:BL:111:ILE:HD12	41:BL:136:GLU:HA	2.00	0.43
42:BM:36:TYR:HD2	42:BM:37:PHE:HE2	1.66	0.43
43:BN:5:ARG:HH11	43:BN:5:ARG:CG	2.30	0.43
45:BP:100:ILE:O	45:BP:101:VAL:HG22	2.19	0.43
46:BQ:50:GLU:HA	46:BQ:53:VAL:HB	2.00	0.43
50:BU:5:VAL:CA	50:BU:59:ILE:O	2.66	0.43
51:BV:73:ALA:O	51:BV:74:ARG:C	2.61	0.43
52:BW:5:LEU:CD2	52:BW:6:LYS:N	2.74	0.43
52:BW:7:LYS:O	52:BW:7:LYS:NZ	2.52	0.43
52:BW:18:LYS:CA	52:BW:18:LYS:CE	2.87	0.43
53:BX:25:ARG:O	53:BX:28:ALA:N	2.51	0.43
53:BX:94:ALA:O	53:BX:95:ALA:HB3	2.17	0.43
55:CA:59:LYS:NZ	55:CA:66:TRP:HZ2	2.17	0.43
55:CA:87:ARG:HH22	55:CA:301:SER:N	2.17	0.43
55:CA:101:ALA:HB2	55:CA:127:ILE:HG21	2.01	0.43
55:CA:344:ALA:HB1	55:CA:361:ARG:HG3	2.00	0.43
55:CA:397:GLN:HG2	55:CA:473:ASP:CA	2.48	0.43
55:CA:403:VAL:HG21	55:CA:466:TYR:HD1	1.82	0.43
55:CA:487:VAL:O	55:CA:489:ILE:HG13	2.18	0.43
1:AA:7:G:O6	1:AA:2896:C:N3	2.52	0.43
1:AA:29:U:O2	1:AA:30:G:C6	2.71	0.43
1:AA:73:A:H2'	1:AA:74:A:OP2	2.19	0.43
1:AA:301:G:H5''	1:AA:335:C:OP1	2.18	0.43
1:AA:303:U:C2'	1:AA:304:G:C5'	2.97	0.43
1:AA:366:C:H6	1:AA:366:C:O5'	2.00	0.43
1:AA:411:G:C2	1:AA:2407:G:N7	2.86	0.43
1:AA:596:G:N1	1:AA:597:U:C2	2.86	0.43
1:AA:614:U:C5'	1:AA:615:G:OP2	2.64	0.43
1:AA:617:G:C8	1:AA:617:G:C3'	3.01	0.43
1:AA:689:A:H2'	1:AA:690:G:H5''	1.99	0.43
1:AA:727:A:N6	1:AA:729:G:C6	2.86	0.43
1:AA:813:U:C5	13:AM:25:SER:HB3	2.53	0.43
1:AA:850:C:H4'	26:AZ:18:ASP:HB2	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:872:A:O2'	14:AN:66:ILE:CD1	2.66	0.43
1:AA:923:C:O4'	24:AX:26:TYR:CB	2.62	0.43
1:AA:978:G:N1	1:AA:979:G:N1	2.67	0.43
1:AA:1009:A:C2	1:AA:1010:A:C2	3.07	0.43
1:AA:1020:A:N3	1:AA:1140:C:C2	2.87	0.43
1:AA:1036:G:C4	1:AA:1120:G:N1	2.87	0.43
1:AA:1083:U:N3	1:AA:1085:A:N7	2.53	0.43
1:AA:1190:G:OP2	13:AM:29:LYS:HD3	2.17	0.43
1:AA:1223:C:N3	1:AA:1227:A:N1	2.67	0.43
1:AA:1323:U:O4	1:AA:1324:G:O6	2.36	0.43
1:AA:1335:U:P	21:AU:65:ARG:NE	2.92	0.43
1:AA:1344:G:C5	1:AA:1385:G:N7	2.86	0.43
1:AA:1389:G:H5'	1:AA:1525:G:H5'	1.99	0.43
1:AA:1454:U:C5'	1:AA:1455:G:OP2	2.56	0.43
1:AA:1459:G:O6	1:AA:1461:G:C5	2.72	0.43
1:AA:1476:C:N4	1:AA:1477:A:N1	2.67	0.43
1:AA:1543:A:C8	1:AA:1544:C:H1'	2.54	0.43
1:AA:1549:C:H2'	1:AA:1550:C:C6	2.49	0.43
1:AA:1579:A:H3'	1:AA:1580:A:O4'	2.19	0.43
1:AA:1608:A:C8	1:AA:1611:C:N4	2.86	0.43
1:AA:1652:A:OP1	15:AO:39:PRO:HG2	2.18	0.43
1:AA:1754:C:C4	1:AA:2717:G:H5'	2.53	0.43
1:AA:1830:C:C2	1:AA:1831:G:N7	2.87	0.43
1:AA:1949:G:N2	1:AA:1958:C:N3	2.66	0.43
1:AA:1954:G:N3	1:AA:2551:C:C5'	2.79	0.43
1:AA:1980:G:O2'	1:AA:1981:A:C5'	2.66	0.43
1:AA:2004:G:N7	1:AA:2005:A:C5	2.86	0.43
1:AA:2047:U:C2	1:AA:2048:G:C8	3.07	0.43
1:AA:2180:U:H2'	1:AA:2181:G:C8	2.52	0.43
1:AA:2199:A:C2	1:AA:2205:C:C6	3.06	0.43
1:AA:2273:A:H2'	1:AA:2274:A:H5'	2.00	0.43
1:AA:2281:C:O2'	1:AA:2282:G:C5'	2.67	0.43
1:AA:2418:A:C4	1:AA:2419:U:C6	3.07	0.43
1:AA:2466:C:O2'	1:AA:2467:C:H5'	2.17	0.43
1:AA:2482:G:C2	1:AA:2483:C:C1'	3.00	0.43
1:AA:2564:A:C6	1:AA:2565:A:N6	2.87	0.43
1:AA:2570:G:N3	1:AA:2570:G:C2'	2.82	0.43
1:AA:2573:C:OP1	1:AA:2574:G:OP1	2.35	0.43
1:AA:2626:C:C6	1:AA:2626:C:C3'	3.02	0.43
1:AA:2657:A:H3'	1:AA:2657:A:P	2.58	0.43
1:AA:2657:A:OP1	1:AA:2657:A:O3'	2.36	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2668:G:N2	1:AA:2669:G:N1	2.66	0.43
1:AA:2742:C:O3'	32:Af:35:ARG:NH2	2.51	0.43
1:AA:2797:U:H4'	1:AA:2798:C:O2'	2.19	0.43
1:AA:2807:G:C5	1:AA:2808:U:O4	2.72	0.43
1:AA:2830:G:H5'	5:AE:57:LYS:HE3	1.99	0.43
1:AA:2848:G:O2'	1:AA:2849:U:O5'	2.34	0.43
1:AA:2863:C:C2	1:AA:2864:G:C8	3.06	0.43
2:AB:1:U:O4	2:AB:2:C:N4	2.52	0.43
2:AB:99:A:N3	2:AB:100:G:C8	2.87	0.43
3:AC:107:TRP:CZ3	3:AC:110:PHE:HE2	2.37	0.43
4:AD:63:ARG:CG	4:AD:65:ILE:HD11	2.48	0.43
4:AD:117:VAL:CG1	4:AD:129:ASN:OD1	2.56	0.43
5:AE:9:VAL:HG13	17:AQ:3:ARG:HG2	1.99	0.43
5:AE:13:ARG:HG3	5:AE:22:PRO:HG3	1.98	0.43
6:AF:9:ILE:CG2	6:AF:124:LEU:O	2.67	0.43
6:AF:185:ASP:HA	6:AF:188:ARG:HG2	1.99	0.43
7:AG:37:VAL:HG13	7:AG:158:ALA:O	2.17	0.43
7:AG:57:ALA:N	7:AG:68:PRO:CB	2.77	0.43
7:AG:74:LYS:C	7:AG:76:SER:N	2.72	0.43
7:AG:134:GLY:HA3	7:AG:156:ASP:CB	2.49	0.43
7:AG:141:PHE:O	7:AG:143:GLU:N	2.52	0.43
8:AH:94:TYR:N	8:AH:95:ARG:HH11	2.11	0.43
8:AH:118:PRO:CG	8:AH:121:ILE:HG21	2.48	0.43
10:AJ:17:ALA:HB1	10:AJ:41:PHE:HB2	1.97	0.43
10:AJ:33:ASN:H	10:AJ:59:ILE:CG2	2.30	0.43
13:AM:56:SER:OG	31:Ae:27:THR:CB	2.66	0.43
13:AM:76:LYS:CA	13:AM:101:VAL:HG11	2.37	0.43
14:AN:6:ARG:HG2	14:AN:70:PRO:CG	2.48	0.43
14:AN:27:VAL:HG22	14:AN:28:ALA:O	2.18	0.43
14:AN:65:PHE:HD1	14:AN:65:PHE:HA	1.68	0.43
15:AO:28:LEU:C	15:AO:30:THR:N	2.75	0.43
15:AO:47:PHE:O	15:AO:49:ASP:N	2.51	0.43
16:AP:57:LYS:HZ3	16:AP:62:LYS:CG	2.29	0.43
16:AP:77:ALA:O	16:AP:80:LEU:N	2.52	0.43
17:AQ:39:ARG:O	17:AQ:40:THR:C	2.62	0.43
17:AQ:48:ILE:HG21	17:AQ:50:ILE:HD11	1.99	0.43
17:AQ:71:GLY:N	17:AQ:74:ARG:HH11	2.16	0.43
18:AR:53:ARG:CB	18:AR:53:ARG:CZ	2.97	0.43
18:AR:70:ARG:NH1	18:AR:70:ARG:CB	2.80	0.43
18:AR:98:LEU:C	18:AR:100:VAL:N	2.70	0.43
20:AT:5:ALA:CB	20:AT:105:VAL:O	2.55	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:22:ASP:HA	20:AT:75:TYR:CE1	2.54	0.43
20:AT:65:LEU:HB2	20:AT:68:ARG:HD3	2.01	0.43
20:AT:70:TYR:OH	20:AT:72:LYS:HB2	2.18	0.43
21:AU:28:PHE:CD1	21:AU:28:PHE:N	2.83	0.43
21:AU:49:VAL:CG1	21:AU:88:LYS:HG3	2.43	0.43
21:AU:52:VAL:O	21:AU:53:LYS:O	2.37	0.43
22:AV:35:TYR:O	22:AV:64:GLU:CA	2.66	0.43
22:AV:76:CYS:N	22:AV:100:ALA:HB3	2.33	0.43
23:AW:55:HIS:CD2	23:AW:124:ILE:HD13	2.54	0.43
23:AW:118:GLN:HB3	23:AW:144:LEU:HD13	2.01	0.43
24:AX:27:GLU:N	24:AX:69:PHE:CE2	2.86	0.43
24:AX:39:ARG:NH1	24:AX:58:THR:OG1	2.48	0.43
25:AY:29:GLU:O	25:AY:33:GLN:CD	2.62	0.43
25:AY:64:ARG:HA	25:AY:64:ARG:HD3	1.67	0.43
28:Ab:40:LYS:CE	28:Ab:52:TYR:HE2	2.31	0.43
31:Ae:58:ILE:HD12	31:Ae:59:LYS:N	2.33	0.43
34:BA:36:C:OP1	45:BP:123:LYS:HG2	2.18	0.43
34:BA:91:C:N3	34:BA:92:G:N7	2.67	0.43
34:BA:113:G:H4'	34:BA:354:G:H5''	1.99	0.43
34:BA:196:A:O2'	34:BA:222:U:O4'	2.36	0.43
34:BA:244:U:C6	34:BA:894:G:C2	3.07	0.43
34:BA:314:C:H2'	34:BA:315:A:C8	2.53	0.43
34:BA:427:U:O5'	34:BA:427:U:C6	2.64	0.43
34:BA:454:C:H3'	34:BA:455:C:H6	1.83	0.43
34:BA:594:G:N1	34:BA:646:U:N3	2.67	0.43
34:BA:658:G:C6	34:BA:659:U:C4	3.07	0.43
34:BA:667:G:C5'	48:BS:51:HIS:CE1	3.02	0.43
34:BA:867:G:C2	34:BA:868:C:C4	3.06	0.43
34:BA:878:G:O4'	41:BL:3:THR:CG2	2.66	0.43
34:BA:900:A:C4	34:BA:901:A:N7	2.87	0.43
34:BA:994:A:OP1	34:BA:995:C:H5	2.01	0.43
34:BA:1063:C:C5	34:BA:1064:G:C8	3.07	0.43
34:BA:1116:C:O2	34:BA:1185:G:N1	2.51	0.43
34:BA:1124:G:N2	34:BA:1126:U:N3	2.40	0.43
34:BA:1255:G:N2	34:BA:1276:G:H21	2.16	0.43
34:BA:1272:G:C4	34:BA:1273:G:C8	3.07	0.43
34:BA:1312:G:N7	34:BA:1326:C:N3	2.61	0.43
34:BA:1402:C:O2'	34:BA:1403:C:H5'	2.18	0.43
34:BA:1459:C:C2'	34:BA:1460:A:H5'	2.46	0.43
35:BF:16:HIS:O	35:BF:18:GLY:N	2.51	0.43
36:BG:43:LEU:CD1	36:BG:55:VAL:HG21	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:112:SER:OG	36:BG:115:LEU:CG	2.67	0.43
36:BG:159:GLY:O	36:BG:160:ALA:O	2.36	0.43
37:BH:13:ARG:N	37:BH:32:ALA:HB2	2.34	0.43
37:BH:127:THR:C	37:BH:128:VAL:O	2.61	0.43
38:BI:55:VAL:O	38:BI:56:GLN:C	2.56	0.43
39:BJ:45:LEU:HD23	39:BJ:59:TYR:HA	2.00	0.43
39:BJ:50:TYR:OH	51:BV:74:ARG:O	2.26	0.43
40:BK:49:ILE:HG12	40:BK:121:ALA:CB	2.47	0.43
40:BK:79:ARG:HG2	40:BK:84:ASN:HB3	2.01	0.43
40:BK:84:ASN:O	40:BK:84:ASN:CG	2.61	0.43
40:BK:146:GLU:C	40:BK:148:ASN:N	2.74	0.43
42:BM:31:GLN:HB3	42:BM:35:GLU:CD	2.43	0.43
44:BO:43:SER:HA	44:BO:47:VAL:HG11	1.99	0.43
46:BQ:93:ARG:HG2	46:BQ:94:ARG:NH2	2.33	0.43
46:BQ:101:GLN:C	46:BQ:102:ARG:HG2	2.42	0.43
46:BQ:108:ARG:N	46:BQ:108:ARG:CD	2.74	0.43
48:BS:27:VAL:HG12	48:BS:31:LEU:CD2	2.47	0.43
50:BU:19:VAL:HG21	50:BU:73:VAL:HG21	2.01	0.43
50:BU:27:PHE:O	50:BU:27:PHE:CD2	2.72	0.43
50:BU:48:GLU:OE1	50:BU:48:GLU:N	2.51	0.43
51:BV:17:SER:CB	51:BV:54:ARG:HH12	2.32	0.43
51:BV:37:VAL:HG12	51:BV:41:LYS:HZ2	1.80	0.43
53:BX:57:ARG:HH21	53:BX:100:ILE:CD1	2.30	0.43
55:CA:130:VAL:HG23	55:CA:131:ASP:N	2.33	0.43
55:CA:137:PRO:O	55:CA:164:TYR:CE2	2.70	0.43
55:CA:209:ILE:HA	55:CA:224:GLY:HA3	2.00	0.43
55:CA:322:GLU:HG3	55:CA:379:GLU:CD	2.33	0.43
1:AA:61:G:C6	1:AA:62:C:N3	2.87	0.43
1:AA:73:A:C2'	1:AA:74:A:OP2	2.67	0.43
1:AA:105:C:H2'	1:AA:106:C:H6	1.83	0.43
1:AA:118:A:H1'	1:AA:178:G:H4'	2.00	0.43
1:AA:120:U:C2'	1:AA:121:G:OP2	2.66	0.43
1:AA:281:G:O2'	1:AA:282:A:H5''	2.18	0.43
1:AA:295:G:H3'	1:AA:338:G:N1	2.31	0.43
1:AA:363(C):G:C2'	1:AA:363(D):G:H5'	2.48	0.43
1:AA:387:U:O2'	1:AA:388:G:N7	2.48	0.43
1:AA:403:U:O2	1:AA:403:U:C2'	2.65	0.43
1:AA:535:C:C4'	18:AR:49:HIS:HB3	2.48	0.43
1:AA:557:U:O3'	11:AK:112:LEU:HD21	2.18	0.43
1:AA:563:G:C6	1:AA:2018:G:C6	3.06	0.43
1:AA:608:A:C2'	1:AA:609:A:H5'	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:609:A:N6	1:AA:609(A):G:O6	2.49	0.43
1:AA:633:A:H3'	1:AA:634:C:O4'	2.18	0.43
1:AA:638:G:C5	1:AA:639:U:C2	3.06	0.43
1:AA:728:G:H21	1:AA:730:C:H5''	1.81	0.43
1:AA:815:C:H2'	1:AA:816:C:C6	2.54	0.43
1:AA:864:G:C2'	1:AA:865:C:H1'	2.43	0.43
1:AA:996:A:C4	1:AA:997:G:N7	2.86	0.43
1:AA:1011:G:O2'	1:AA:1013:C:H4'	2.18	0.43
1:AA:1024:G:P	1:AA:1025:G:H3'	2.57	0.43
1:AA:1049:C:O2	1:AA:1113:U:H4'	2.19	0.43
1:AA:1051:G:H2'	1:AA:1052:C:H5''	2.00	0.43
1:AA:1111:A:H5''	8:AH:4:ILE:HG23	2.01	0.43
1:AA:1137:G:C2'	1:AA:1138:G:O5'	2.67	0.43
1:AA:1324:G:C2	1:AA:1328:G:N1	2.87	0.43
1:AA:1416:G:N3	1:AA:1583:A:C6	2.86	0.43
1:AA:1444:G:C2	1:AA:1445:C:O2	2.72	0.43
1:AA:1444(A):A:C8	1:AA:1444(A):A:OP2	2.71	0.43
1:AA:1473:G:O2'	1:AA:1474:C:O4'	2.35	0.43
1:AA:1475:G:O6	1:AA:1517:G:C6	2.71	0.43
1:AA:1578:U:H5''	1:AA:1580:A:N1	2.33	0.43
1:AA:1601:G:N3	1:AA:1601:G:H2'	2.34	0.43
1:AA:1680:U:HO2'	1:AA:1763:G:H8	1.67	0.43
1:AA:1689:A:N6	1:AA:1700:A:N3	2.66	0.43
1:AA:1759:A:H4'	1:AA:2715:C:O4'	2.18	0.43
1:AA:1891:G:C6	1:AA:1892:C:C4	3.07	0.43
1:AA:2020:A:C8	28:Ab:9:LYS:NZ	2.86	0.43
1:AA:2048:G:C2	1:AA:2049:G:N9	2.86	0.43
1:AA:2052:G:H1'	5:AE:150:VAL:CA	2.49	0.43
1:AA:2104:G:H2'	1:AA:2104:G:N3	2.32	0.43
1:AA:2142:C:N4	1:AA:2143:C:N4	2.66	0.43
1:AA:2225:A:O2'	1:AA:2226:C:OP2	2.29	0.43
1:AA:2268:A:C3'	1:AA:2269:A:H5''	2.48	0.43
1:AA:2292:C:H2'	1:AA:2293:C:C6	2.54	0.43
1:AA:2320:A:C5'	1:AA:2321:G:C5	2.91	0.43
1:AA:2358:G:C6	1:AA:2359:C:C5	3.07	0.43
1:AA:2417:C:O2'	1:AA:2418:A:H5'	2.18	0.43
1:AA:2553:G:N7	1:AA:2583:G:C4'	2.67	0.43
1:AA:2674:G:C5'	12:AL:26:LYS:HD2	2.47	0.43
1:AA:2690:C:C4	15:AO:14:SER:HB2	2.53	0.43
1:AA:2708:G:OP1	15:AO:68:ARG:CG	2.65	0.43
1:AA:2708:G:OP1	15:AO:68:ARG:NE	2.50	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2765:A:C2'	1:AA:2766:G:OP1	2.67	0.43
1:AA:2786:U:O2'	5:AE:64:LYS:HB2	2.18	0.43
1:AA:2804:C:H5''	1:AA:2804:C:H6	1.83	0.43
3:AC:45:ALA:HB2	3:AC:212:VAL:HA	1.99	0.43
3:AC:68:LEU:HD22	3:AC:157:LYS:CA	2.46	0.43
3:AC:93:TYR:CE1	3:AC:109:ASP:HB3	2.54	0.43
3:AC:176:GLY:CA	3:AC:185:LEU:HD22	2.49	0.43
3:AC:211:SER:HB2	3:AC:213:TYR:OH	2.18	0.43
4:AD:78:LYS:O	4:AD:95:LEU:CD2	2.66	0.43
4:AD:131:LEU:HA	4:AD:131:LEU:HD12	1.68	0.43
5:AE:80:GLU:HG2	5:AE:83:ASP:CG	2.41	0.43
5:AE:80:GLU:C	5:AE:83:ASP:OD2	2.61	0.43
5:AE:100:GLU:N	5:AE:172:VAL:HG21	2.23	0.43
5:AE:108:SER:HG	5:AE:164:ARG:CA	2.29	0.43
6:AF:168:ARG:O	6:AF:169:ASN:O	2.36	0.43
6:AF:195:ASP:C	6:AF:197:ASP:N	2.77	0.43
7:AG:12:TYR:CE2	7:AG:13:GLU:OE2	2.72	0.43
7:AG:17:PRO:O	7:AG:18:GLU:C	2.61	0.43
7:AG:29:TRP:HB2	7:AG:31:VAL:CG2	2.48	0.43
7:AG:56:ALA:O	7:AG:68:PRO:HD2	2.17	0.43
7:AG:138:GLN:HG2	7:AG:139:LEU:N	2.33	0.43
7:AG:165:THR:O	7:AG:168:GLU:HB2	2.19	0.43
8:AH:25:LYS:HD3	8:AH:27:LYS:HZ2	1.80	0.43
8:AH:25:LYS:NZ	8:AH:27:LYS:NZ	2.67	0.43
9:AI:51:LEU:H	9:AI:90:ALA:HB2	1.82	0.43
10:AJ:12:LEU:HD22	10:AJ:22:PRO:HB2	2.00	0.43
11:AK:42:TRP:HA	11:AK:47:ALA:HB1	2.01	0.43
11:AK:51:PHE:HA	11:AK:119:ARG:O	2.19	0.43
11:AK:67:LEU:O	11:AK:68:GLU:CG	2.67	0.43
12:AL:10:VAL:HG13	12:AL:14:THR:CG2	2.48	0.43
12:AL:12:ASP:OD2	12:AL:93:PRO:HG3	2.19	0.43
12:AL:21:CYS:CB	12:AL:40:VAL:O	2.67	0.43
12:AL:78:ARG:H	12:AL:78:ARG:CD	2.31	0.43
12:AL:105:GLU:O	12:AL:107:ARG:N	2.51	0.43
13:AM:94:GLU:CD	13:AM:94:GLU:O	2.62	0.43
13:AM:97:PRO:CD	13:AM:102:ARG:NH1	2.82	0.43
14:AN:11:LYS:HZ3	14:AN:73:PRO:CG	2.32	0.43
14:AN:12:GLN:C	14:AN:12:GLN:CD	2.86	0.43
15:AO:54:LEU:HG	15:AO:57:ARG:HD3	2.01	0.43
15:AO:57:ARG:CG	15:AO:57:ARG:HH11	2.31	0.43
15:AO:58:GLY:HA2	15:AO:80:PHE:HE2	1.72	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:105:ARG:C	15:AO:107:ASP:N	2.76	0.43
17:AQ:56:GLY:C	17:AQ:57:PHE:HD1	2.24	0.43
17:AQ:113:LYS:O	17:AQ:116:ALA:CB	2.65	0.43
18:AR:70:ARG:O	18:AR:72:HIS:N	2.51	0.43
19:AS:22:VAL:HG11	19:AS:24:LYS:NZ	2.33	0.43
19:AS:56:SER:C	19:AS:57:VAL:HG23	2.44	0.43
19:AS:62:LEU:HB3	19:AS:97:LYS:O	2.17	0.43
20:AT:17:VAL:HG23	20:AT:18:ARG:N	2.33	0.43
20:AT:24:ILE:O	20:AT:32:ALA:HB2	2.17	0.43
20:AT:25:ARG:NH1	20:AT:73:ALA:HA	2.34	0.43
20:AT:56:ALA:O	20:AT:57:ASN:C	2.62	0.43
21:AU:47:PHE:CZ	21:AU:92:LEU:HD11	2.45	0.43
22:AV:38:ILE:CG2	22:AV:60:PHE:HZ	2.27	0.43
22:AV:82:PRO:HG2	22:AV:95:LYS:O	2.19	0.43
23:AW:76:LEU:HD23	23:AW:82:ARG:C	2.43	0.43
23:AW:130:PRO:O	23:AW:131:ARG:C	2.60	0.43
25:AY:42:ASN:O	25:AY:45:ILE:CG1	2.63	0.43
27:Aa:14:ILE:HG23	27:Aa:16:CYS:SG	2.59	0.43
27:Aa:56:VAL:C	27:Aa:61:ARG:NE	2.76	0.43
31:Ae:10:ALA:HA	31:Ae:14:VAL:CG1	2.49	0.43
31:Ae:34:TRP:CA	31:Ae:36:LYS:HB2	2.48	0.43
31:Ae:38:GLY:C	31:Ae:41:ILE:HG12	2.41	0.43
31:Ae:53:PRO:C	31:Ae:56:GLU:OE1	2.59	0.43
34:BA:20:U:O2'	34:BA:21:G:C5'	2.65	0.43
34:BA:50:A:H61	34:BA:361:G:H4'	1.69	0.43
34:BA:57:G:O6	34:BA:356:A:N6	2.51	0.43
34:BA:60:A:N6	34:BA:107:G:O2'	2.48	0.43
34:BA:142:G:H2'	34:BA:142:G:N3	2.32	0.43
34:BA:161:A:N1	34:BA:347:G:O2'	2.48	0.43
34:BA:193:C:O4'	53:BX:60:GLU:CG	2.67	0.43
34:BA:237:C:H5''	50:BU:25:ARG:NH2	2.31	0.43
34:BA:250:A:O2'	34:BA:251:G:P	2.76	0.43
34:BA:270:A:C4	34:BA:271:C:C5	3.06	0.43
34:BA:282:A:C5	34:BA:283:C:C5	3.06	0.43
34:BA:319:G:H4'	34:BA:1468:A:H4'	1.99	0.43
34:BA:377:G:OP1	49:BT:5:ARG:NH1	2.51	0.43
34:BA:489:C:O2'	34:BA:490:G:C5'	2.65	0.43
34:BA:503:C:C4	34:BA:504:C:C5	3.07	0.43
34:BA:589:C:C4	34:BA:590:C:N4	2.87	0.43
34:BA:760:G:N1	50:BU:105:ALA:OXT	2.40	0.43
34:BA:824:C:C1'	41:BL:1:MET:H1	2.25	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:864:A:N6	34:BA:865:A:N6	2.67	0.43
34:BA:922:G:C2'	34:BA:923:A:H5'	2.48	0.43
34:BA:951:G:C2	34:BA:952:U:C2	3.06	0.43
34:BA:1148:U:O2	34:BA:1149:C:C1'	2.66	0.43
34:BA:1219:U:C1'	52:BW:34:TRP:HZ2	2.26	0.43
34:BA:1225:A:H2'	52:BW:80:TYR:HB2	1.99	0.43
34:BA:1305:G:OP1	54:BY:2:GLY:CA	2.66	0.43
34:BA:1349:A:C2'	34:BA:1350:A:H8	2.27	0.43
34:BA:1350:A:C6	34:BA:1351:U:C4	3.06	0.43
34:BA:1412:C:C2	34:BA:1413:A:N7	2.87	0.43
34:BA:1484:C:N3	34:BA:1485:U:C5	2.87	0.43
35:BF:177:ALA:CB	35:BF:184:VAL:HG22	2.49	0.43
35:BF:195:ASP:OD1	35:BF:195:ASP:N	2.46	0.43
36:BG:6:HIS:CD2	36:BG:9:GLY:H	2.36	0.43
36:BG:23:TYR:CD1	43:BN:11:PHE:HB2	2.53	0.43
36:BG:129:ALA:CB	36:BG:132:ARG:HD2	2.49	0.43
37:BH:11:LEU:O	37:BH:14:ARG:HB3	2.19	0.43
37:BH:25:ARG:NH1	37:BH:25:ARG:HB3	2.34	0.43
37:BH:153:ARG:O	37:BH:154:ASN:CB	2.66	0.43
38:BI:91:LEU:CG	38:BI:92:LYS:N	2.81	0.43
40:BK:68:ASN:HD21	40:BK:128:ALA:C	2.26	0.43
40:BK:70:LYS:HA	40:BK:71:PRO:HD2	1.85	0.43
40:BK:72:ARG:NH2	40:BK:138:LYS:NZ	2.63	0.43
41:BL:10:LEU:CD2	41:BL:83:ILE:HD11	2.48	0.43
41:BL:14:ARG:HB3	41:BL:14:ARG:CZ	2.42	0.43
41:BL:83:ILE:HG23	41:BL:83:ILE:O	2.18	0.43
42:BM:17:VAL:HG11	42:BM:81:ILE:CA	2.48	0.43
42:BM:23:ASN:O	42:BM:59:PHE:O	2.36	0.43
42:BM:27:THR:CG2	42:BM:30:GLY:H	2.32	0.43
42:BM:50:LEU:CD1	42:BM:56:LEU:HG	2.41	0.43
42:BM:116:LYS:O	42:BM:118:LYS:N	2.51	0.43
43:BN:71:LEU:O	43:BN:72:VAL:C	2.61	0.43
44:BO:57:THR:C	44:BO:59:TYR:H	2.26	0.43
45:BP:21:LYS:O	45:BP:22:SER:C	2.60	0.43
48:BS:3:ILE:H	48:BS:3:ILE:CD1	2.24	0.43
48:BS:60:VAL:O	48:BS:63:ARG:CG	2.49	0.43
49:BT:4:ILE:N	49:BT:4:ILE:CD1	2.54	0.43
49:BT:52:ASP:OD1	49:BT:55:ARG:HG2	2.18	0.43
50:BU:3:LYS:C	50:BU:4:LYS:O	2.62	0.43
50:BU:95:TYR:C	50:BU:97:SER:N	2.77	0.43
50:BU:96:GLN:O	50:BU:96:GLN:OE1	2.36	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:97:SER:O	50:BU:98:LEU:CD2	2.61	0.43
51:BV:31:LEU:CD2	51:BV:65:ILE:HG13	2.49	0.43
51:BV:53:ARG:C	51:BV:55:ARG:N	2.76	0.43
52:BW:30:LEU:HB2	52:BW:48:THR:HG22	2.00	0.43
55:CA:6:ARG:CA	55:CA:69:ARG:CB	2.96	0.43
55:CA:91:MET:HG2	55:CA:227:LYS:NZ	2.33	0.43
55:CA:206:GLN:HE21	55:CA:227:LYS:CB	2.31	0.43
55:CA:294:VAL:CG1	55:CA:295:GLU:H	2.11	0.43
1:AA:276:A:N3	1:AA:276:A:C2'	2.82	0.43
1:AA:351:G:C2'	1:AA:352:G:OP2	2.66	0.43
1:AA:363(D):G:C2'	1:AA:363(E):U:H5'	2.49	0.43
1:AA:414:C:C1'	1:AA:1864:U:O2'	2.67	0.43
1:AA:449:A:C2	1:AA:450:G:N7	2.86	0.43
1:AA:451:C:OP1	6:AF:50:SER:OG	2.36	0.43
1:AA:498:G:H8	1:AA:498:G:P	2.41	0.43
1:AA:503:A:O2'	1:AA:506:G:OP2	2.37	0.43
1:AA:507:A:H5'	1:AA:509:C:H1'	2.01	0.43
1:AA:531:C:O4'	1:AA:532:A:C2	2.72	0.43
1:AA:685:A:C2'	1:AA:686:G:OP2	2.67	0.43
1:AA:705:A:N6	1:AA:727:A:C8	2.83	0.43
1:AA:718:A:C5'	1:AA:719:C:OP2	2.66	0.43
1:AA:734:A:C2	1:AA:735:A:C8	3.07	0.43
1:AA:743:G:H2'	1:AA:744:G:C8	2.53	0.43
1:AA:805:G:C6	1:AA:2068:U:OP1	2.72	0.43
1:AA:819:A:OP2	1:AA:1187:G:N2	2.51	0.43
1:AA:931:G:N3	26:AZ:24:LYS:CE	2.80	0.43
1:AA:1015:G:C6	1:AA:1148:A:C6	3.06	0.43
1:AA:1022:G:N7	1:AA:1139:G:O6	2.51	0.43
1:AA:1050:A:C1'	1:AA:2752:C:C4	2.89	0.43
1:AA:1080:C:C6	1:AA:1080:C:C3'	3.02	0.43
1:AA:1083:U:C2'	1:AA:1084:A:C5'	2.95	0.43
1:AA:1267:U:H3'	1:AA:1267:U:H6	1.84	0.43
1:AA:1296:G:O2'	1:AA:1297:C:O5'	2.30	0.43
1:AA:1334:G:H2'	1:AA:1335:U:C6	2.54	0.43
1:AA:1343:G:H3'	1:AA:1344:G:H5''	2.01	0.43
1:AA:1348:G:O6	1:AA:1599:C:C4	2.72	0.43
1:AA:1422:G:N2	1:AA:1423:G:C4	2.87	0.43
1:AA:1509:C:OP1	1:AA:1510:A:C8	2.57	0.43
1:AA:1710:C:C2	1:AA:1711:C:C5	3.07	0.43
1:AA:1790:C:H1'	4:AD:213:ARG:NH2	2.33	0.43
1:AA:1814:G:OP2	4:AD:43:ARG:HD2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1864:U:OP1	1:AA:2410:G:O2'	2.36	0.43
1:AA:1951:U:H2'	1:AA:1951:U:O2	2.19	0.43
1:AA:1952:A:C6	1:AA:1953:A:N1	2.86	0.43
1:AA:1955:U:C2'	1:AA:1955:U:O2	2.65	0.43
1:AA:1977:A:C2	1:AA:1978:A:C1'	3.01	0.43
1:AA:2088:G:C6	1:AA:2089:U:N3	2.87	0.43
1:AA:2132:U:C2	1:AA:2133:G:H5''	2.54	0.43
1:AA:2149:G:N2	1:AA:2150:U:H1'	2.34	0.43
1:AA:2226:C:N3	1:AA:2227:A:N3	2.67	0.43
1:AA:2286:A:N7	29:Ac:31:PRO:N	2.66	0.43
1:AA:2289:G:H5'	1:AA:2384:G:O2'	2.19	0.43
1:AA:2312:U:OP1	7:AG:86:MET:HG2	2.18	0.43
1:AA:2585:U:H2'	1:AA:2586:C:OP2	2.19	0.43
1:AA:2593:U:O4	4:AD:239:ARG:CZ	2.65	0.43
1:AA:2603:G:H2'	1:AA:2604:U:C5'	2.49	0.43
1:AA:2642:G:H2'	1:AA:2643:G:C8	2.50	0.43
1:AA:2646:C:N3	1:AA:2647:U:C4	2.84	0.43
1:AA:2731:G:C4'	5:AE:168:MET:SD	2.94	0.43
1:AA:2737:G:C4	1:AA:2738:A:N7	2.87	0.43
1:AA:2741:A:H5''	32:Af:22:ARG:HH12	1.83	0.43
1:AA:2779:U:H5'	1:AA:2780:G:H3'	2.01	0.43
1:AA:2808:U:O2	1:AA:2891:G:N2	2.51	0.43
1:AA:2850:A:H2'	1:AA:2851:A:O5'	2.18	0.43
2:AB:44:G:H5''	2:AB:45:A:OP1	2.19	0.43
2:AB:63:G:H2'	2:AB:64:C:C5	2.53	0.43
3:AC:71:GLN:CG	3:AC:72:VAL:HG23	2.49	0.43
3:AC:77:ILE:HG23	3:AC:96:GLY:O	2.19	0.43
3:AC:87:GLU:HA	3:AC:91:ALA:HB3	1.99	0.43
3:AC:103:ILE:CD1	3:AC:110:PHE:CZ	3.00	0.43
4:AD:63:ARG:HB2	4:AD:87:ASN:OD1	2.19	0.43
4:AD:67:PHE:O	4:AD:153:ALA:HB2	2.18	0.43
4:AD:90:ALA:HB3	4:AD:159:ALA:HA	2.00	0.43
4:AD:203:ASN:O	4:AD:204:ILE:C	2.60	0.43
4:AD:246:PRO:C	4:AD:250:TRP:HB2	2.44	0.43
6:AF:11:VAL:HB	6:AF:17:ARG:NH1	2.33	0.43
6:AF:63:LYS:O	6:AF:64:ILE:HG22	2.19	0.43
6:AF:111:ALA:O	6:AF:112:MET:C	2.62	0.43
7:AG:9:ARG:O	7:AG:13:GLU:CD	2.61	0.43
7:AG:34:LEU:CD2	7:AG:172:LEU:HD11	2.48	0.43
7:AG:49:ASP:C	7:AG:70:VAL:HG13	2.43	0.43
7:AG:78:SER:CB	7:AG:82:LEU:HB3	2.45	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:8:PRO:CA	8:AH:51:ARG:CZ	2.97	0.43
8:AH:118:PRO:HG2	8:AH:121:ILE:HG21	2.00	0.43
8:AH:167:GLU:C	8:AH:169:VAL:N	2.74	0.43
10:AJ:15:GLY:C	10:AJ:45:THR:OG1	2.61	0.43
10:AJ:56:GLU:HG2	10:AJ:57:ILE:H	1.84	0.43
11:AK:107:LEU:CB	11:AK:117:PHE:CZ	2.98	0.43
12:AL:6:THR:CG2	12:AL:21:CYS:HB3	2.48	0.43
12:AL:22:ILE:HB	12:AL:23:ARG:CD	2.48	0.43
12:AL:59:LYS:HB3	12:AL:86:ILE:H	1.83	0.43
13:AM:23:PRO:CB	13:AM:28:GLY:CA	2.93	0.43
13:AM:131:SER:N	13:AM:134:ALA:HB2	2.33	0.43
14:AN:16:ARG:HG3	14:AN:72:LYS:CG	2.48	0.43
14:AN:42:ILE:HD13	14:AN:43:THR:CA	2.49	0.43
14:AN:51:ARG:HG2	14:AN:51:ARG:HH11	1.83	0.43
15:AO:54:LEU:O	15:AO:80:PHE:HE1	2.00	0.43
15:AO:62:ALA:O	15:AO:63:ARG:C	2.62	0.43
16:AP:24:LEU:HG	16:AP:41:ASP:CA	2.49	0.43
16:AP:28:VAL:CG2	16:AP:29:PHE:N	2.74	0.43
16:AP:77:ALA:HA	16:AP:80:LEU:CB	2.48	0.43
17:AQ:33:LYS:HE3	17:AQ:45:PHE:CE2	2.54	0.43
17:AQ:80:SER:CB	17:AQ:81:PRO:HD3	2.45	0.43
18:AR:66:ASN:C	18:AR:70:ARG:NE	2.73	0.43
18:AR:113:ALA:O	18:AR:114:LYS:C	2.61	0.43
19:AS:39:LEU:O	19:AS:40:LEU:CB	2.67	0.43
20:AT:37:ARG:HG3	20:AT:38:TYR:HD1	1.84	0.43
21:AU:36:LYS:HE3	21:AU:56:THR:CG2	2.47	0.43
21:AU:89:ILE:O	21:AU:92:LEU:HB2	2.18	0.43
23:AW:138:GLU:O	23:AW:139:VAL:CG2	2.66	0.43
23:AW:179:ASP:OD1	23:AW:180:VAL:N	2.46	0.43
25:AY:27:LEU:HA	25:AY:30:LEU:CD1	2.49	0.43
25:AY:50:ARG:C	25:AY:54:ARG:CZ	2.92	0.43
28:Ab:36:CYS:H	28:Ab:49:CYS:HB3	1.83	0.43
28:Ab:54:GLY:O	28:Ab:55:ARG:C	2.61	0.43
29:Ac:20:ASN:ND2	29:Ac:43:CYS:CA	2.75	0.43
30:Ad:18:PHE:C	30:Ad:22:MET:HE3	2.43	0.43
30:Ad:19:ARG:HH11	30:Ad:19:ARG:CG	2.32	0.43
32:Af:9:ARG:NH2	32:Af:16:VAL:HB	2.33	0.43
32:Af:17:ILE:CG1	32:Af:26:ILE:HB	2.46	0.43
33:Ag:24:UNK:O	33:Ag:127:UNK:HA	2.19	0.43
34:BA:30:U:H2'	34:BA:31:G:OP1	2.19	0.43
34:BA:65:U:C6	34:BA:381:C:C5	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:149:A:C2	34:BA:150:C:C2	3.07	0.43
34:BA:258:G:H2'	34:BA:259:G:C8	2.52	0.43
34:BA:332:G:N3	34:BA:333:G:C8	2.87	0.43
34:BA:377:G:O2'	34:BA:378:G:O5'	2.32	0.43
34:BA:486:U:C2	34:BA:487:A:C8	3.06	0.43
34:BA:520:A:H3'	34:BA:520:A:H8	1.82	0.43
34:BA:520:A:C8	34:BA:521:G:H5''	2.48	0.43
34:BA:529:G:N1	45:BP:49:ASN:CB	2.77	0.43
34:BA:579:G:N3	34:BA:580:U:C6	2.86	0.43
34:BA:608:A:N3	34:BA:608:A:C2'	2.81	0.43
34:BA:730:G:N7	34:BA:731:G:C1'	2.78	0.43
34:BA:774:G:C6	34:BA:775:G:C5	3.07	0.43
34:BA:780:A:C2	34:BA:803:G:C6	3.04	0.43
34:BA:960:U:H5'	34:BA:960:U:C6	2.53	0.43
34:BA:962:C:C4	34:BA:963:G:C5	3.07	0.43
34:BA:963:G:H2'	34:BA:964:A:C8	2.49	0.43
34:BA:971:G:H2'	34:BA:1365:G:O2'	2.19	0.43
34:BA:973:G:H3'	34:BA:974:A:H5''	2.01	0.43
34:BA:994:A:C4	47:BR:5:ALA:HA	2.54	0.43
34:BA:1018:C:C4	34:BA:1019:C:C5	3.06	0.43
34:BA:1059:C:C4	34:BA:1060:C:C5	3.06	0.43
34:BA:1108:G:OP1	36:BG:176:HIS:HB2	2.18	0.43
34:BA:1187:G:C4	34:BA:1188:A:C8	3.07	0.43
34:BA:1194:U:H5'	38:BI:22:GLY:O	2.19	0.43
34:BA:1214:C:H4'	34:BA:1215:G:OP2	2.12	0.43
34:BA:1226:C:C5	46:BQ:104:ARG:HA	2.50	0.43
34:BA:1291:G:C6	34:BA:1292:U:C4	3.07	0.43
34:BA:1312:G:N3	34:BA:1326:C:N1	2.66	0.43
34:BA:1344:C:O2'	34:BA:1349:A:H5'	2.18	0.43
34:BA:1365:G:C6	34:BA:1366:C:N4	2.87	0.43
34:BA:1433:A:N1	34:BA:1434:A:N3	2.67	0.43
34:BA:1441:G:H8	34:BA:1441:G:O5'	2.01	0.43
34:BA:1470:G:C2	34:BA:1471:G:C4	3.07	0.43
34:BA:1511:G:C6	34:BA:1512:U:C4	3.06	0.43
35:BF:54:THR:CG2	35:BF:199:TYR:HB3	2.48	0.43
35:BF:77:ALA:O	35:BF:80:ILE:HG22	2.19	0.43
35:BF:82:ARG:N	35:BF:92:TYR:HE1	2.16	0.43
35:BF:87:ARG:O	35:BF:88:ALA:C	2.61	0.43
35:BF:135:GLN:O	35:BF:139:LYS:HB3	2.19	0.43
36:BG:42:LEU:O	36:BG:45:LYS:HB3	2.19	0.43
36:BG:70:VAL:HG12	36:BG:72:LYS:H	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:18:LYS:O	37:BH:19:LEU:HD23	2.19	0.43
37:BH:121:VAL:HA	37:BH:126:ILE:CD1	2.36	0.43
38:BI:25:ARG:C	38:BI:26:PHE:CD1	2.96	0.43
38:BI:79:GLU:HG3	38:BI:93:PRO:HD3	2.00	0.43
38:BI:110:LEU:O	38:BI:111:GLU:C	2.59	0.43
39:BJ:16:GLN:CG	39:BJ:17:SER:N	2.72	0.43
39:BJ:30:LEU:CB	39:BJ:35:ALA:HB3	2.44	0.43
41:BL:32:LYS:NZ	41:BL:32:LYS:H	2.13	0.43
41:BL:45:ILE:HD12	41:BL:61:VAL:HG22	2.01	0.43
41:BL:75:ARG:CG	41:BL:75:ARG:HH11	2.32	0.43
42:BM:10:ARG:NE	42:BM:75:ASP:OD2	2.51	0.43
43:BN:44:VAL:HG22	43:BN:66:ARG:HD2	2.01	0.43
44:BO:31:THR:CG2	44:BO:32:ILE:N	2.81	0.43
44:BO:100:ALA:O	44:BO:102:GLY:N	2.50	0.43
46:BQ:23:TYR:CD2	46:BQ:67:GLU:CA	2.83	0.43
47:BR:16:PHE:CE1	52:BW:14:HIS:CE1	2.89	0.43
49:BT:20:VAL:HG11	49:BT:32:TYR:CG	2.54	0.43
51:BV:52:PRO:O	51:BV:53:ARG:C	2.61	0.43
52:BW:18:LYS:O	52:BW:22:LEU:HB3	2.19	0.43
55:CA:79:ALA:HB1	55:CA:81:PHE:N	2.33	0.43
55:CA:173:GLY:HA3	55:CA:174:LEU:C	2.43	0.43
55:CA:180:ALA:CA	55:CA:181:GLU:C	2.92	0.43
55:CA:209:ILE:C	55:CA:223:ILE:O	2.62	0.43
55:CA:251:VAL:HA	55:CA:273:ILE:HA	1.99	0.43
1:AA:55:G:C2	1:AA:56:A:C5	3.07	0.43
1:AA:72:U:H5	1:AA:112:U:HO2'	1.64	0.43
1:AA:215:G:C4'	1:AA:216:A:O5'	2.40	0.43
1:AA:223:A:N6	1:AA:374:A:O2'	2.51	0.43
1:AA:266:G:C5	1:AA:267:C:C6	3.06	0.43
1:AA:296:C:O2'	1:AA:297:C:H5'	2.19	0.43
1:AA:300:A:C5	1:AA:334:C:H4'	2.54	0.43
1:AA:328:U:O2'	22:AV:67:LEU:N	2.51	0.43
1:AA:329:G:O2'	1:AA:330:A:OP1	2.31	0.43
1:AA:476:G:N2	1:AA:479:A:OP2	2.50	0.43
1:AA:530:G:O2'	1:AA:532:A:P	2.76	0.43
1:AA:701:G:H5'	1:AA:1632:A:H1'	2.00	0.43
1:AA:770:G:N2	1:AA:771:G:H1'	2.34	0.43
1:AA:785:G:O2'	1:AA:786:C:P	2.77	0.43
1:AA:824:A:H2'	1:AA:825:C:C6	2.54	0.43
1:AA:856:C:C1'	24:AX:69:PHE:CE2	3.00	0.43
1:AA:878:A:N3	1:AA:878:A:C2'	2.79	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:971:C:H4'	1:AA:983:A:O2'	2.19	0.43
1:AA:974:G:N3	1:AA:1186:G:C5	2.87	0.43
1:AA:993:G:N7	1:AA:994:C:N4	2.65	0.43
1:AA:1030:G:C5	1:AA:1125:G:N2	2.87	0.43
1:AA:1035:U:H2'	1:AA:1036:G:C8	2.54	0.43
1:AA:1068:G:H1'	1:AA:1069:A:C6	2.53	0.43
1:AA:1104:C:H2'	1:AA:1105:U:H6	1.80	0.43
1:AA:1131:G:O6	1:AA:2025:C:H1'	2.18	0.43
1:AA:1134:G:C4	1:AA:1136:G:OP2	2.72	0.43
1:AA:1299:G:OP1	1:AA:1300:U:H5'	2.18	0.43
1:AA:1300:U:C6	1:AA:1300:U:P	3.12	0.43
1:AA:1314:C:N4	1:AA:1315:C:N4	2.67	0.43
1:AA:1324:G:C2	1:AA:1331:A:C2	3.06	0.43
1:AA:1358:G:H2'	1:AA:1371:G:N2	2.34	0.43
1:AA:1438:U:O2'	1:AA:1439:A:H5'	2.18	0.43
1:AA:1449(A):G:C4	1:AA:1450:C:C5	3.07	0.43
1:AA:1453:A:N6	15:AO:63:ARG:NH2	2.53	0.43
1:AA:1496:A:H2'	1:AA:1497:U:H5	1.84	0.43
1:AA:1519:G:H3'	1:AA:1520:U:O4'	2.18	0.43
1:AA:1537:C:O5'	1:AA:1537:C:H6	2.01	0.43
1:AA:1569:A:O3'	4:AD:39:LYS:CE	2.66	0.43
1:AA:1696:G:C6	1:AA:1697:G:N1	2.87	0.43
1:AA:1731:G:O2'	1:AA:1732:A:C5'	2.66	0.43
1:AA:1753:G:C6	1:AA:1756:G:C6	3.06	0.43
1:AA:1753:G:N1	1:AA:1756:G:C2	2.87	0.43
1:AA:1767:C:N4	1:AA:1768:U:C4	2.87	0.43
1:AA:1791:A:O4'	4:AD:209:ALA:CB	2.61	0.43
1:AA:1809:A:H61	27:Aa:3:GLU:CB	2.31	0.43
1:AA:1817:G:C2'	1:AA:1818:U:C5'	2.95	0.43
1:AA:1887:C:O2'	1:AA:1888:G:H5'	2.19	0.43
1:AA:1892:C:C4	1:AA:1893:C:C5	3.07	0.43
1:AA:1958:C:HO2'	34:BA:1418:A:HO2'	1.57	0.43
1:AA:1971:A:C2	4:AD:239:ARG:CB	3.02	0.43
1:AA:1993:U:C4	1:AA:1994:C:N4	2.67	0.43
1:AA:2051:A:H1'	5:AE:141:ILE:CD1	2.48	0.43
1:AA:2075:U:H1'	1:AA:2597:G:N2	2.33	0.43
1:AA:2093:G:O2'	1:AA:2094:G:H5'	2.19	0.43
1:AA:2110:G:C2'	1:AA:2120:G:C5'	2.93	0.43
1:AA:2117:A:N6	1:AA:2171:A:C6	2.84	0.43
1:AA:2126:A:C6	1:AA:2163:C:H4'	2.51	0.43
1:AA:2128:C:N4	1:AA:2129:C:C5	2.87	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2171:A:C4'	1:AA:2172:U:OP1	2.57	0.43
1:AA:2264:C:C2'	1:AA:2265:U:O5'	2.67	0.43
1:AA:2289:G:N7	1:AA:2289:G:OP2	2.52	0.43
1:AA:2304:G:O6	1:AA:2313:C:N4	2.52	0.43
1:AA:2306:C:OP1	7:AG:136:ARG:CZ	2.67	0.43
1:AA:2331:G:N7	1:AA:2332:U:C4	2.87	0.43
1:AA:2491:U:H6	1:AA:2492:U:P	2.33	0.43
1:AA:2617:C:C2'	1:AA:2618:G:O5'	2.67	0.43
1:AA:2635:C:H5''	5:AE:78:LEU:CD1	2.49	0.43
1:AA:2657:A:N6	1:AA:2664:G:C1'	2.81	0.43
1:AA:2670:A:C6	1:AA:2671:A:N6	2.87	0.43
1:AA:2690:C:H41	15:AO:14:SER:CB	2.32	0.43
1:AA:2699:C:H2'	1:AA:2700:C:C5'	2.49	0.43
1:AA:2740:A:C2'	1:AA:2741:A:H8	2.27	0.43
1:AA:2811:G:C6	1:AA:2891:G:C2	3.06	0.43
1:AA:2887:U:N3	1:AA:2888:C:C5	2.87	0.43
2:AB:9:G:N2	2:AB:10:C:C4	2.87	0.43
2:AB:15:A:H4'	2:AB:16:G:OP2	2.19	0.43
2:AB:21:G:C6	2:AB:22:U:C2	3.07	0.43
2:AB:29:A:H2'	2:AB:30:C:O4'	2.18	0.43
2:AB:30:C:C2	2:AB:31:C:O4'	2.72	0.43
2:AB:57:A:N3	7:AG:29:TRP:CD1	2.87	0.43
2:AB:73:A:C2	2:AB:74:U:N1	2.87	0.43
2:AB:106:G:C4	2:AB:107:U:C5	3.06	0.43
3:AC:7:TYR:O	3:AC:10:LEU:N	2.51	0.43
3:AC:28:LEU:HA	3:AC:31:GLU:OE1	2.18	0.43
3:AC:40:THR:HB	3:AC:217:THR:OG1	2.19	0.43
3:AC:78:ALA:HA	3:AC:119:VAL:CG1	2.49	0.43
3:AC:224:ILE:O	3:AC:226:PRO:HD3	2.18	0.43
4:AD:27:THR:HG22	4:AD:29:PRO:CG	2.48	0.43
4:AD:55:GLY:N	4:AD:218:ARG:HH11	2.16	0.43
6:AF:168:ARG:H	6:AF:168:ARG:HG3	1.36	0.43
7:AG:105:LYS:CA	7:AG:109:VAL:HG13	2.49	0.43
8:AH:35:VAL:HG11	8:AH:75:ALA:HB2	2.01	0.43
8:AH:67:LEU:O	8:AH:69:ARG:N	2.52	0.43
9:AI:51:LEU:C	9:AI:53:VAL:N	2.76	0.43
11:AK:87:LEU:HD21	11:AK:88:GLU:OE2	2.18	0.43
12:AL:34:THR:HB	12:AL:37:ASP:OD2	2.19	0.43
12:AL:53:LYS:HG3	12:AL:54:GLU:N	2.34	0.43
12:AL:75:SER:O	17:AQ:77:PRO:HG2	2.18	0.43
12:AL:106:LEU:CD2	17:AQ:38:ASN:ND2	2.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:121:VAL:HA	17:AQ:70:VAL:CG1	2.49	0.43
13:AM:29:LYS:O	13:AM:30:THR:CG2	2.63	0.43
13:AM:46:LYS:CA	13:AM:49:ARG:NH2	2.82	0.43
13:AM:106:LEU:O	13:AM:107:LYS:HB3	2.18	0.43
13:AM:122:PRO:HD3	13:AM:137:LYS:HB3	2.01	0.43
14:AN:77:LYS:HB3	14:AN:78:PRO:CD	2.39	0.43
16:AP:13:ARG:NH1	16:AP:90:GLY:C	2.76	0.43
16:AP:52:SER:OG	16:AP:69:VAL:HG11	2.18	0.43
17:AQ:27:THR:CG2	17:AQ:28:VAL:H	2.23	0.43
17:AQ:53:ARG:HH22	17:AQ:101:PHE:CA	2.31	0.43
17:AQ:70:VAL:C	17:AQ:74:ARG:NH1	2.77	0.43
22:AV:67:LEU:HD12	22:AV:71:LYS:NZ	2.34	0.43
22:AV:86:ARG:HA	22:AV:91:GLU:O	2.19	0.43
23:AW:6:LYS:CD	23:AW:35:ARG:HD3	2.44	0.43
23:AW:31:ARG:CZ	23:AW:31:ARG:HB3	2.42	0.43
23:AW:37:VAL:O	23:AW:38:TYR:CD1	2.57	0.43
23:AW:43:GLU:HA	23:AW:46:LYS:HZ2	1.84	0.43
23:AW:105:VAL:O	23:AW:140:ASP:OD2	2.37	0.43
27:Aa:5:ILE:CD1	27:Aa:10:VAL:N	2.81	0.43
27:Aa:20:ASN:HB3	27:Aa:30:GLU:CD	2.43	0.43
27:Aa:25:TYR:CD1	27:Aa:25:TYR:N	2.79	0.43
28:Ab:11:THR:HG23	28:Ab:15:ARG:CG	2.49	0.43
29:Ac:25:LYS:HG2	29:Ac:26:ASN:N	2.34	0.43
31:Ae:33:ASN:O	31:Ae:34:TRP:CB	2.66	0.43
32:Af:19:ARG:HD3	32:Af:22:ARG:HB2	2.01	0.43
34:BA:44:G:C2	34:BA:45:U:H1'	2.54	0.43
34:BA:160:A:C2'	34:BA:161:A:H5'	2.49	0.43
34:BA:315:A:N1	34:BA:330:C:N1	2.67	0.43
34:BA:390:C:H2'	34:BA:391:G:O5'	2.19	0.43
34:BA:401:C:OP2	37:BH:73:ARG:NH2	2.52	0.43
34:BA:440:A:C2'	34:BA:442:C:H6	2.31	0.43
34:BA:483:C:N4	34:BA:484:G:N1	2.66	0.43
34:BA:548:G:O2'	34:BA:549:C:H5'	2.18	0.43
34:BA:573:A:H2'	34:BA:574:A:N7	2.31	0.43
34:BA:593:G:N1	34:BA:647:C:C2	2.86	0.43
34:BA:604:G:N2	34:BA:605:U:H1'	2.33	0.43
34:BA:604:G:C6	34:BA:635:G:C6	3.06	0.43
34:BA:655:A:C6	34:BA:656:C:C4	3.06	0.43
34:BA:658:G:C2	34:BA:659:U:C2	3.07	0.43
34:BA:735:C:C6	34:BA:735:C:O5'	2.72	0.43
34:BA:779:C:O2'	34:BA:780:A:H5'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:795:C:C1'	34:BA:1506:U:C2	3.02	0.43
34:BA:832:C:H2'	34:BA:833:U:C5	2.53	0.43
34:BA:887:G:O2'	34:BA:888:G:H5'	2.19	0.43
34:BA:895:G:C2	34:BA:896:C:C4	3.07	0.43
34:BA:908:A:H2'	34:BA:909:A:C8	2.53	0.43
34:BA:918:A:H2'	34:BA:919:A:O4'	2.19	0.43
34:BA:949:A:C2'	46:BQ:102:ARG:HH12	2.21	0.43
34:BA:1061:G:N3	34:BA:1197:G:C2	2.87	0.43
34:BA:1130:A:H5''	34:BA:1131:G:OP2	2.19	0.43
34:BA:1171:G:C2'	34:BA:1172:C:H6	2.31	0.43
34:BA:1251:A:N1	34:BA:1285:A:H2	2.16	0.43
34:BA:1298:C:N1	40:BK:114:ARG:NH1	2.66	0.43
34:BA:1374:A:C1'	40:BK:31:MET:HE1	2.48	0.43
34:BA:1390:U:N3	34:BA:1391:U:C4	2.86	0.43
34:BA:1465:C:O5'	34:BA:1465:C:C6	2.70	0.43
34:BA:1496:C:C6	34:BA:1496:C:C3'	3.02	0.43
36:BG:5:ILE:HG22	43:BN:51:ARG:HH22	1.83	0.43
36:BG:12:LEU:HD22	47:BR:58:LYS:HB2	2.01	0.43
36:BG:34:LEU:O	36:BG:38:ARG:HG2	2.19	0.43
36:BG:195:VAL:C	36:BG:196:LEU:HD23	2.43	0.43
37:BH:13:ARG:NH1	37:BH:36:ARG:HD3	2.34	0.43
37:BH:108:LEU:HD22	37:BH:108:LEU:HA	1.78	0.43
37:BH:120:LEU:HG	37:BH:121:VAL:H	1.83	0.43
37:BH:193:ASP:OD2	37:BH:194:LEU:CD2	2.67	0.43
40:BK:6:ARG:N	40:BK:6:ARG:NH1	2.67	0.43
40:BK:75:VAL:HG22	40:BK:87:VAL:C	2.43	0.43
40:BK:79:ARG:HD3	40:BK:84:ASN:HB3	2.01	0.43
40:BK:111:ARG:NH1	40:BK:122:HIS:ND1	2.67	0.43
41:BL:64:LYS:C	41:BL:65:TYR:CD1	2.97	0.43
42:BM:65:VAL:CG2	42:BM:73:GLN:HB3	2.49	0.43
42:BM:70:LYS:CD	42:BM:70:LYS:N	2.81	0.43
44:BO:50:TYR:HD1	44:BO:55:LYS:HA	1.83	0.43
44:BO:85:ARG:HD3	44:BO:85:ARG:HA	1.56	0.43
45:BP:11:VAL:O	45:BP:11:VAL:HG12	2.18	0.43
48:BS:18:PHE:CE1	48:BS:21:ASP:HB2	2.54	0.43
49:BT:19:ILE:HG22	49:BT:36:ILE:O	2.17	0.43
49:BT:40:ASP:O	49:BT:40:ASP:OD1	2.36	0.43
52:BW:78:ARG:O	52:BW:79:THR:OG1	2.21	0.43
53:BX:75:ASN:HB2	53:BX:78:ALA:HB3	2.00	0.43
55:CA:1:MET:N	55:CA:3:GLU:OE2	2.48	0.43
55:CA:7:ASN:CB	55:CA:71:ASN:O	2.59	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:19:THR:HA	55:CA:20:THR:C	2.31	0.43
55:CA:19:THR:CG2	55:CA:22:VAL:HG13	2.49	0.43
55:CA:41:ARG:CB	55:CA:42:VAL:HG13	2.49	0.43
55:CA:89:MET:SD	55:CA:116:ALA:CA	3.05	0.43
55:CA:123:PRO:HG2	55:CA:156:GLU:CD	2.41	0.43
55:CA:246:THR:C	55:CA:247:ARG:CG	2.92	0.43
1:AA:28:A:C2	1:AA:29:U:C1'	3.02	0.43
1:AA:95:G:C6	1:AA:96:G:C8	3.07	0.43
1:AA:120:U:C5	1:AA:150:C:H5	2.37	0.43
1:AA:142:G:H4'	21:AU:37:THR:OG1	2.19	0.43
1:AA:215:G:H1'	1:AA:216:A:C5'	2.49	0.43
1:AA:399:G:N1	1:AA:400:G:H1'	2.34	0.43
1:AA:431:U:H2'	1:AA:431:U:O2	2.18	0.43
1:AA:617:G:C8	1:AA:617:G:H3'	2.54	0.43
1:AA:685:A:C2	1:AA:774:A:C2	3.07	0.43
1:AA:693:C:C2'	1:AA:694:U:O5'	2.66	0.43
1:AA:693:C:N4	1:AA:770:G:O6	2.52	0.43
1:AA:709:U:O5'	1:AA:709:U:H6	2.01	0.43
1:AA:713:G:N2	1:AA:714:U:C6	2.86	0.43
1:AA:761:A:H8	1:AA:761:A:O5'	2.01	0.43
1:AA:783:A:C3'	4:AD:227:ASN:OD1	2.66	0.43
1:AA:849:A:C4	1:AA:850:C:C5	3.06	0.43
1:AA:849:A:H2'	1:AA:850:C:H6	1.84	0.43
1:AA:906:G:H5'	1:AA:907:U:OP2	2.19	0.43
1:AA:977:G:C8	1:AA:987:G:N2	2.87	0.43
1:AA:1007:C:H4'	11:AK:108:PRO:HG3	2.01	0.43
1:AA:1069:A:C4'	1:AA:1070:A:H5''	2.45	0.43
1:AA:1112:G:OP1	8:AH:4:ILE:HG12	2.18	0.43
1:AA:1124:C:H2'	1:AA:1125:G:O4'	2.18	0.43
1:AA:1129:A:C5	1:AA:2570:G:H1'	2.53	0.43
1:AA:1139:G:H5'	11:AK:24:GLY:HA3	1.98	0.43
1:AA:1153:C:N4	1:AA:1154:G:O6	2.52	0.43
1:AA:1223:C:N4	19:AS:88:ARG:HH22	2.17	0.43
1:AA:1225:C:C4'	19:AS:87:HIS:CE1	3.02	0.43
1:AA:1317:A:C6	1:AA:1318:C:C4	3.06	0.43
1:AA:1389:G:C2	1:AA:1390:U:C4	3.07	0.43
1:AA:1416:G:C2	1:AA:1417:C:N4	2.87	0.43
1:AA:1464:C:H2'	1:AA:1465:G:C8	2.44	0.43
1:AA:1527:G:N7	1:AA:1541:U:O4	2.52	0.43
1:AA:1537:C:OP2	1:AA:1538:G:OP2	2.36	0.43
1:AA:1561:G:H8	1:AA:1561:G:O5'	2.02	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1635:G:N3	1:AA:1636:C:C6	2.87	0.43
1:AA:1675:C:C4	5:AE:128:SER:CB	3.02	0.43
1:AA:1700:A:O2'	1:AA:1701:A:OP1	2.25	0.43
1:AA:1703:G:C2'	1:AA:1704:G:C5'	2.96	0.43
1:AA:1732:A:OP1	1:AA:1733:G:C4	2.72	0.43
1:AA:1784:A:H2'	1:AA:1981:A:C8	2.53	0.43
1:AA:1858:G:C5	1:AA:1883:G:C2	3.07	0.43
1:AA:1861:G:N2	1:AA:1862:G:C1'	2.82	0.43
1:AA:1890:A:C8	1:AA:1891:G:C8	3.06	0.43
1:AA:1906:G:C1'	1:AA:1929:G:C8	3.00	0.43
1:AA:1920:C:C5	56:AA:3001:NMY:C4	3.01	0.43
1:AA:1930:G:O2'	1:AA:1931:U:O5'	2.34	0.43
1:AA:2052:G:C8	5:AE:150:VAL:HG23	2.52	0.43
1:AA:2115:G:O2'	1:AA:2171:A:N6	2.52	0.43
1:AA:2133:G:O6	1:AA:2157:G:H1'	2.19	0.43
1:AA:2225:A:C5'	1:AA:2226:C:C6	2.96	0.43
1:AA:2263:C:H2'	1:AA:2263:C:O2	2.18	0.43
1:AA:2284:C:C2	1:AA:2285:C:C5	3.07	0.43
1:AA:2309:A:H5''	1:AA:2310:A:H8	1.84	0.43
1:AA:2311:A:C5'	1:AA:2312:U:H5	2.32	0.43
1:AA:2313:C:C2	1:AA:2314:C:C5	3.07	0.43
1:AA:2476:A:H2'	1:AA:2477:C:O4'	2.19	0.43
1:AA:2527:C:H3'	1:AA:2527:C:P	2.59	0.43
1:AA:2554:U:C5	1:AA:2556:C:N3	2.86	0.43
1:AA:2559:C:C2	1:AA:2560:C:C5	3.07	0.43
1:AA:2615:U:H5'	1:AA:2615:U:H6	1.84	0.43
1:AA:2639:A:C2'	1:AA:2640:G:O5'	2.66	0.43
1:AA:2685:G:H4'	12:AL:66:LYS:NZ	2.34	0.43
1:AA:2737:G:C5	1:AA:2738:A:N7	2.87	0.43
1:AA:2770:G:C2'	1:AA:2771:C:H5'	2.47	0.43
1:AA:2781:A:C8	1:AA:2781:A:H5'	2.52	0.43
1:AA:2789:C:H4'	1:AA:2789:C:OP1	2.18	0.43
1:AA:2842:G:N2	1:AA:2843:G:H1'	2.34	0.43
1:AA:2848:G:N1	1:AA:2867:G:N3	2.66	0.43
2:AB:6:C:C4	2:AB:115:G:N2	2.86	0.43
2:AB:31:C:C2'	2:AB:32:C:OP1	2.67	0.43
2:AB:75:G:N2	23:AW:85:HIS:CE1	2.86	0.43
3:AC:32:LEU:HD13	3:AC:220:PRO:HG2	2.01	0.43
3:AC:34:THR:O	3:AC:34:THR:CG2	2.59	0.43
3:AC:68:LEU:CD2	3:AC:156:ILE:O	2.67	0.43
3:AC:74:VAL:HG12	3:AC:114:VAL:HG22	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:79:LYS:HG3	3:AC:119:VAL:CG1	2.49	0.43
4:AD:9:TYR:CG	4:AD:25:THR:HG23	2.53	0.43
4:AD:73:VAL:HG12	4:AD:120:GLY:HA2	2.00	0.43
4:AD:122:ASP:O	4:AD:123:ALA:O	2.37	0.43
4:AD:132:PRO:CD	4:AD:190:TYR:CZ	3.02	0.43
4:AD:169:GLU:O	4:AD:170:GLY:C	2.62	0.43
4:AD:182:LEU:HD12	4:AD:270:ILE:CD1	2.47	0.43
4:AD:219:PRO:HG2	4:AD:220:HIS:H	1.83	0.43
4:AD:258:LYS:CA	4:AD:261:LYS:HD2	2.49	0.43
5:AE:13:ARG:CD	5:AE:20:ALA:O	2.65	0.43
5:AE:64:LYS:O	5:AE:67:PHE:CB	2.67	0.43
5:AE:116:VAL:O	5:AE:120:TRP:HD1	1.95	0.43
5:AE:197:ILE:N	5:AE:197:ILE:CD1	2.60	0.43
6:AF:97:TYR:O	6:AF:98:SER:O	2.37	0.43
6:AF:182:ASN:OD1	6:AF:185:ASP:N	2.52	0.43
7:AG:163:ALA:O	7:AG:169:ALA:HB2	2.19	0.43
10:AJ:58:THR:C	10:AJ:59:ILE:CD1	2.89	0.43
11:AK:18:ALA:CB	11:AK:55:VAL:O	2.56	0.43
11:AK:33:LEU:HD11	11:AK:52:VAL:CB	2.49	0.43
11:AK:100:GLU:O	11:AK:101:HIS:C	2.62	0.43
12:AL:53:LYS:HG3	12:AL:55:GLY:N	2.34	0.43
13:AM:49:ARG:CD	31:Ae:52:LYS:HE3	2.48	0.43
13:AM:55:ARG:NH1	13:AM:55:ARG:HA	2.33	0.43
14:AN:46:GLN:CG	14:AN:125:LEU:HA	2.48	0.43
14:AN:131:ILE:C	14:AN:132:VAL:HG13	2.42	0.43
16:AP:19:LYS:O	16:AP:20:ARG:O	2.37	0.43
16:AP:26:LEU:HD12	16:AP:101:LEU:HD11	2.00	0.43
16:AP:79:ALA:C	16:AP:81:GLY:N	2.75	0.43
17:AQ:4:GLY:C	17:AQ:8:LYS:HE3	2.44	0.43
17:AQ:65:LYS:CA	17:AQ:76:PHE:O	2.63	0.43
18:AR:19:LYS:C	18:AR:21:ALA:N	2.76	0.43
18:AR:41:ALA:O	18:AR:43:GLY:N	2.52	0.43
18:AR:91:ASP:C	18:AR:95:LEU:HD21	2.44	0.43
18:AR:94:ASN:C	18:AR:96:ALA:N	2.73	0.43
22:AV:12:THR:CA	22:AV:73:ARG:CZ	2.95	0.43
22:AV:24:VAL:HG23	22:AV:38:ILE:HD12	2.00	0.43
23:AW:18:LEU:CD2	23:AW:23:LYS:HD3	2.47	0.43
25:AY:34:ALA:O	25:AY:35:SER:CB	2.67	0.43
34:BA:44:G:C6	34:BA:399:G:C6	3.06	0.43
34:BA:44:G:C2	34:BA:45:U:C1'	3.02	0.43
34:BA:46:G:N3	34:BA:396:G:N1	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:85:U:H2'	34:BA:86:U:O4'	2.19	0.43
34:BA:86:U:C2'	34:BA:87:A:H5'	2.47	0.43
34:BA:89:U:C4	34:BA:90:C:C5	3.07	0.43
34:BA:99:C:O2'	34:BA:101:A:OP1	2.33	0.43
34:BA:107:G:H2'	34:BA:108:G:O4'	2.19	0.43
34:BA:113:G:C5	34:BA:114:U:C4	3.07	0.43
34:BA:199:G:H2'	34:BA:200:G:C8	2.53	0.43
34:BA:284:G:O2'	34:BA:285:G:C5'	2.62	0.43
34:BA:285:G:C4	34:BA:286:G:C8	3.07	0.43
34:BA:302:G:O6	34:BA:303:A:C6	2.72	0.43
34:BA:375:U:H2'	34:BA:376:G:O5'	2.18	0.43
34:BA:383:A:C2'	34:BA:384:G:H5'	2.49	0.43
34:BA:519:C:H5'	45:BP:51:ALA:CB	2.49	0.43
34:BA:547:A:H4'	34:BA:548:G:OP1	2.16	0.43
34:BA:712:A:C6	34:BA:713:G:C6	3.06	0.43
34:BA:728:A:C5'	48:BS:54:ARG:HH22	2.32	0.43
34:BA:729:A:H62	48:BS:51:HIS:CD2	2.36	0.43
34:BA:747:C:H2'	34:BA:748:C:C1'	2.49	0.43
34:BA:780:A:C2	34:BA:803:G:N1	2.86	0.43
34:BA:862:C:N3	34:BA:863:U:C5	2.87	0.43
34:BA:921:U:H2'	34:BA:922:G:H8	1.83	0.43
34:BA:956:U:C6	34:BA:956:U:OP2	2.72	0.43
34:BA:965:A:P	34:BA:1198:G:H5''	2.59	0.43
34:BA:978:A:H3'	34:BA:980:C:H41	1.83	0.43
34:BA:1095:U:N3	34:BA:1096:C:C4	2.87	0.43
34:BA:1164:G:HO2'	34:BA:1165:C:H5'	1.82	0.43
34:BA:1326:C:O2'	34:BA:1327:C:C5'	2.67	0.43
34:BA:1331:G:C2'	34:BA:1332:A:OP2	2.66	0.43
34:BA:1360:A:N1	34:BA:1361:G:N1	2.67	0.43
34:BA:1418:A:N1	34:BA:1483:A:N1	2.66	0.43
34:BA:1516:G:C2	34:BA:1518:A:P	3.12	0.43
35:BF:23:ARG:HH11	35:BF:23:ARG:C	2.25	0.43
35:BF:55:PHE:HA	35:BF:58:ILE:HG13	2.01	0.43
35:BF:61:LEU:CA	35:BF:64:ARG:HH11	2.31	0.43
35:BF:95:GLN:C	35:BF:97:TRP:N	2.77	0.43
35:BF:126:GLU:O	35:BF:127:ILE:O	2.37	0.43
35:BF:163:PHE:CD1	35:BF:185:ILE:O	2.72	0.43
36:BG:23:TYR:CG	43:BN:11:PHE:HB2	2.53	0.43
36:BG:64:VAL:HB	36:BG:99:VAL:CG1	2.49	0.43
36:BG:138:VAL:HG13	36:BG:149:ALA:CB	2.48	0.43
37:BH:31:CYS:C	37:BH:33:MET:HG2	2.42	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:32:ALA:N	37:BH:34:GLU:O	2.52	0.43
37:BH:66:ARG:C	37:BH:68:TYR:H	2.26	0.43
37:BH:165:MET:O	37:BH:167:GLY:N	2.52	0.43
38:BI:25:ARG:HD3	38:BI:25:ARG:N	2.33	0.43
38:BI:76:ILE:CG2	38:BI:77:PRO:HD2	2.48	0.43
38:BI:97:GLY:O	38:BI:98:THR:C	2.61	0.43
38:BI:131:ILE:HG22	38:BI:132:ALA:N	2.33	0.43
39:BJ:15:ASP:OD1	39:BJ:15:ASP:C	2.61	0.43
39:BJ:36:ARG:HB2	39:BJ:36:ARG:HH11	1.82	0.43
41:BL:117:GLY:O	41:BL:119:LEU:CD2	2.67	0.43
42:BM:99:LEU:CD2	42:BM:99:LEU:H	2.31	0.43
43:BN:48:THR:O	43:BN:49:VAL:HG23	2.19	0.43
43:BN:69:ASN:O	43:BN:70:ARG:NH1	2.51	0.43
44:BO:85:ARG:NH1	44:BO:85:ARG:CG	2.79	0.43
45:BP:58:VAL:HG12	45:BP:59:ARG:C	2.44	0.43
46:BQ:10:PRO:HB3	46:BQ:18:ALA:HB1	1.92	0.43
46:BQ:22:ILE:HB	46:BQ:25:ILE:CG1	2.24	0.43
47:BR:26:ARG:HE	47:BR:43:CYS:CB	2.31	0.43
47:BR:45:ARG:HH11	47:BR:45:ARG:C	2.26	0.43
50:BU:60:ILE:HG12	50:BU:61:GLU:N	2.34	0.43
52:BW:40:ILE:CB	52:BW:67:VAL:O	2.65	0.43
53:BX:49:ALA:HB3	53:BX:99:LEU:CG	2.49	0.43
53:BX:53:LEU:HD12	53:BX:100:ILE:HG13	2.00	0.43
55:CA:20:THR:HB	55:CA:21:LEU:H	1.67	0.43
55:CA:59:LYS:HB2	55:CA:59:LYS:HZ3	1.79	0.43
55:CA:99:VAL:O	55:CA:128:ASN:N	2.48	0.43
55:CA:204:PRO:O	55:CA:228:ARG:HB3	2.19	0.43
55:CA:211:GLN:HB3	55:CA:223:ILE:HG21	1.98	0.43
55:CA:311:PHE:CZ	55:CA:358:VAL:HG21	2.54	0.43
1:AA:10:G:N1	1:AA:2629:A:N3	2.66	0.43
1:AA:35:G:H21	1:AA:450:G:N2	2.16	0.43
1:AA:35:G:H5'	1:AA:455:C:N3	2.34	0.43
1:AA:104:U:O2'	1:AA:105:C:H5'	2.19	0.43
1:AA:117:G:C6	1:AA:119:A:N6	2.87	0.43
1:AA:132:G:H2'	1:AA:132:G:N3	2.34	0.43
1:AA:199:A:C2	1:AA:2433:A:C4	3.07	0.43
1:AA:204:A:H4'	1:AA:205:G:O5'	2.18	0.43
1:AA:270(M):U:O3'	1:AA:270(N):G:C4'	2.66	0.43
1:AA:271:G:H2'	1:AA:272:G:H8	1.83	0.43
1:AA:391:G:H5'	1:AA:412:A:H4'	2.01	0.43
1:AA:438:G:H2'	1:AA:439:G:O5'	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:509:C:C2'	1:AA:510:C:OP2	2.66	0.43
1:AA:592:G:O2'	31:Ae:2:PRO:CA	2.49	0.43
1:AA:593:G:C6	1:AA:594:U:C5	3.07	0.43
1:AA:601:C:O2'	1:AA:604:G:OP1	2.37	0.43
1:AA:740:U:O5'	1:AA:1784:A:C6	2.72	0.43
1:AA:824:A:C3'	1:AA:825:C:C6	3.02	0.43
1:AA:837:C:C2'	1:AA:838:C:O5'	2.67	0.43
1:AA:889:C:H3'	1:AA:889:C:O2	2.19	0.43
1:AA:928:G:O2'	26:AZ:43:ILE:CD1	2.67	0.43
1:AA:954:G:C6	1:AA:964:C:N3	2.87	0.43
1:AA:957:A:OP1	14:AN:76:LYS:HA	2.19	0.43
1:AA:972:G:H3'	1:AA:973:A:C3'	2.48	0.43
1:AA:1009:A:C4'	18:AR:62:ILE:HG21	2.46	0.43
1:AA:1019:U:OP2	1:AA:1036:G:C1'	2.66	0.43
1:AA:1197:G:N3	1:AA:1197:G:H2'	2.34	0.43
1:AA:1255:U:O4	6:AF:72:ARG:O	2.36	0.43
1:AA:1312:U:O3'	21:AU:63:LYS:CD	2.67	0.43
1:AA:1414:G:N1	1:AA:1415:U:C4	2.86	0.43
1:AA:1416:G:N2	1:AA:1417:C:C4	2.87	0.43
1:AA:1491:G:N2	1:AA:1493:C:H41	2.13	0.43
1:AA:1492:G:O2'	1:AA:1493:C:C5	2.72	0.43
1:AA:1589:C:C2	1:AA:1590:U:C6	3.07	0.43
1:AA:1728:G:N3	1:AA:1728:G:C2'	2.81	0.43
1:AA:1798:U:O5'	4:AD:257:LEU:HD12	2.19	0.43
1:AA:1839:G:O6	1:AA:1927:A:N1	2.50	0.43
1:AA:1967:C:H2'	1:AA:1968:G:H5'	2.00	0.43
1:AA:2002:G:C6	1:AA:2003:G:N7	2.87	0.43
1:AA:2052:G:C4	1:AA:2053:G:N7	2.87	0.43
1:AA:2115:G:C2	1:AA:2117:A:C8	3.07	0.43
1:AA:2138:C:H2'	1:AA:2139:C:H6	1.77	0.43
1:AA:2217:G:C1'	4:AD:150:LYS:HZ2	2.30	0.43
1:AA:2267:A:N1	1:AA:2272:U:O4	2.51	0.43
1:AA:2286:A:C5'	1:AA:2287:A:H1'	2.49	0.43
1:AA:2334:G:H2'	1:AA:2335:A:OP1	2.19	0.43
1:AA:2588:G:N2	1:AA:2607:G:C5	2.87	0.43
1:AA:2631:G:OP2	1:AA:2894:G:H1'	2.18	0.43
1:AA:2644:G:C6	1:AA:2645:G:C2	3.07	0.43
1:AA:2690:C:O2'	1:AA:2691:C:P	2.76	0.43
1:AA:2726:U:O2'	1:AA:2727:G:OP1	2.28	0.43
1:AA:2781:A:H2'	1:AA:2782:G:C3'	2.49	0.43
2:AB:48:A:O3'	16:AP:95:HIS:NE2	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:10:LEU:HD22	3:AC:32:LEU:O	2.18	0.43
3:AC:120:MET:HE3	3:AC:120:MET:HA	2.01	0.43
4:AD:10:THR:N	4:AD:11:PRO:HD2	2.34	0.43
4:AD:47:GLY:O	4:AD:49:ILE:CD1	2.66	0.43
4:AD:55:GLY:H	4:AD:218:ARG:HA	1.83	0.43
4:AD:101:GLU:OE1	4:AD:102:LYS:N	2.52	0.43
4:AD:122:ASP:O	4:AD:123:ALA:C	2.61	0.43
4:AD:183:ARG:CG	4:AD:268:ARG:HD2	2.49	0.43
4:AD:257:LEU:HD23	4:AD:257:LEU:HA	1.61	0.43
6:AF:30:PRO:C	6:AF:33:LEU:HG	2.36	0.43
7:AG:4:ASP:OD1	7:AG:7:LEU:HD12	2.19	0.43
7:AG:9:ARG:CG	7:AG:9:ARG:NH1	2.80	0.43
7:AG:22:ARG:HG3	7:AG:23:PHE:HD2	1.84	0.43
7:AG:41:GLN:HE22	7:AG:155:MET:CB	2.31	0.43
7:AG:62:LEU:HB3	7:AG:143:GLU:HG3	2.01	0.43
8:AH:97:ARG:O	8:AH:104:GLU:HG2	2.19	0.43
8:AH:103:LEU:O	8:AH:113:VAL:HG12	2.19	0.43
8:AH:153:LYS:O	8:AH:161:GLY:HA3	2.18	0.43
10:AJ:23:VAL:CG2	10:AJ:41:PHE:CZ	2.79	0.43
12:AL:13:ASN:N	12:AL:94:ARG:CB	2.82	0.43
13:AM:124:LYS:CD	13:AM:142:GLY:O	2.66	0.43
14:AN:102:VAL:HG13	14:AN:104:PHE:CZ	2.54	0.43
14:AN:118:LEU:HB3	14:AN:131:ILE:HD13	2.01	0.43
15:AO:55:ALA:HA	15:AO:80:PHE:CE1	2.54	0.43
15:AO:60:LEU:HD23	15:AO:60:LEU:N	2.30	0.43
16:AP:3:ARG:O	16:AP:7:TYR:HB2	2.18	0.43
16:AP:57:LYS:CE	16:AP:58:LEU:HB3	2.49	0.43
16:AP:73:LEU:HA	16:AP:76:LYS:HB3	2.01	0.43
17:AQ:6:LEU:CG	17:AQ:7:ILE:N	2.82	0.43
17:AQ:62:THR:HG22	17:AQ:79:HIS:N	2.28	0.43
17:AQ:64:ARG:CD	17:AQ:65:LYS:H	1.99	0.43
17:AQ:110:ILE:CA	34:BA:1432:G:OP2	2.63	0.43
17:AQ:111:ARG:HG3	34:BA:1432:G:OP1	2.18	0.43
18:AR:28:ARG:HA	18:AR:31:SER:OG	2.19	0.43
19:AS:20:LEU:HD22	19:AS:68:LYS:NZ	2.33	0.43
21:AU:5:TYR:O	21:AU:7:VAL:HG12	2.19	0.43
21:AU:25:LYS:HG2	21:AU:82:GLN:HB2	2.01	0.43
22:AV:95:LYS:HE3	22:AV:103:GLY:CA	2.49	0.43
23:AW:30:ASN:HA	23:AW:89:PHE:CD1	2.54	0.43
23:AW:60:GLU:CD	23:AW:60:GLU:H	2.26	0.43
23:AW:60:GLU:CD	23:AW:67:LEU:O	2.62	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:68:PRO:HG3	23:AW:131:ARG:NH2	2.27	0.43
27:Aa:6:HIS:CB	27:Aa:56:VAL:HG13	2.48	0.43
30:Ad:21:ARG:CB	30:Ad:31:LEU:HD21	2.47	0.43
32:Af:7:VAL:CB	32:Af:36:GLN:OE1	2.58	0.43
32:Af:22:ARG:HD3	32:Af:24:TYR:CE1	2.53	0.43
33:Ag:307:UNK:O	33:Ag:308:UNK:O	2.37	0.43
34:BA:41:G:O2'	34:BA:42:G:O4'	2.21	0.43
34:BA:66:G:P	34:BA:66:G:H8	2.42	0.43
34:BA:85:U:H2'	34:BA:86:U:H5'	2.01	0.43
34:BA:113:G:O4'	34:BA:354:G:C5'	2.67	0.43
34:BA:131:C:N4	34:BA:232:G:H1	2.16	0.43
34:BA:342:C:C2	34:BA:348:G:N2	2.86	0.43
34:BA:407:G:O2'	34:BA:408:A:H5'	2.18	0.43
34:BA:427:U:N1	34:BA:428:G:N7	2.66	0.43
34:BA:429:U:C1'	34:BA:430:A:H5''	2.48	0.43
34:BA:503:C:C2	34:BA:504:C:C6	3.07	0.43
34:BA:584:G:C2	34:BA:585:G:C8	3.07	0.43
34:BA:697:U:O5'	34:BA:697:U:C6	2.62	0.43
34:BA:707:C:C2'	34:BA:708:C:O5'	2.67	0.43
34:BA:721:G:OP1	34:BA:721:G:H8	2.02	0.43
34:BA:738:C:C4	34:BA:739:C:C5	3.06	0.43
34:BA:761:G:H2'	34:BA:762:C:H6	1.84	0.43
34:BA:838:G:C2	34:BA:849:C:C2	3.06	0.43
34:BA:843:U:H3'	34:BA:848:C:O4'	2.19	0.43
34:BA:934:C:C5	34:BA:1344:C:C2	3.07	0.43
34:BA:950:U:H2'	34:BA:951:G:H5'	2.00	0.43
34:BA:991:U:OP2	34:BA:991:U:H6	2.02	0.43
34:BA:1018:C:O2'	34:BA:1019:C:H5'	2.19	0.43
34:BA:1100:C:O2'	34:BA:1102:A:O5'	2.37	0.43
34:BA:1152:A:C2'	34:BA:1153:C:C5'	2.96	0.43
34:BA:1160:G:O6	34:BA:1181:G:N1	2.52	0.43
34:BA:1174:G:H8	34:BA:1174:G:H5'	1.84	0.43
34:BA:1189:C:H2'	34:BA:1190:G:H5'	2.01	0.43
34:BA:1223:C:H3'	34:BA:1223:C:H6	1.84	0.43
34:BA:1317:C:OP1	34:BA:1317:C:C6	2.72	0.43
34:BA:1337:G:H5''	34:BA:1338:G:OP1	2.18	0.43
34:BA:1343:G:O2'	42:BM:121:ARG:HA	2.18	0.43
34:BA:1418:A:H2'	34:BA:1419:G:H5'	2.00	0.43
34:BA:1431:C:H2'	34:BA:1432:G:C5'	2.49	0.43
34:BA:1433:A:H8	34:BA:1433:A:O5'	2.02	0.43
34:BA:1442:G:N3	34:BA:1442:G:H2'	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1487:G:C2	34:BA:1488:G:N7	2.87	0.43
34:BA:1533:C:C5	34:BA:1534:A:N7	2.86	0.43
35:BF:95:GLN:OE1	35:BF:95:GLN:HA	2.19	0.43
36:BG:29:TYR:CB	47:BR:36:PHE:HE1	2.30	0.43
36:BG:33:LEU:O	36:BG:36:ASP:N	2.52	0.43
36:BG:34:LEU:HD23	36:BG:34:LEU:C	2.44	0.43
36:BG:38:ARG:NH1	36:BG:38:ARG:CB	2.58	0.43
36:BG:58:GLU:O	36:BG:65:ALA:N	2.51	0.43
37:BH:6:GLY:O	37:BH:8:VAL:N	2.52	0.43
37:BH:47:ARG:O	37:BH:47:ARG:HG3	2.18	0.43
37:BH:75:PHE:O	37:BH:76:ARG:C	2.61	0.43
37:BH:76:ARG:HG3	37:BH:207:TYR:CD2	2.54	0.43
37:BH:165:MET:CG	37:BH:166:LYS:N	2.80	0.43
38:BI:36:ASP:OD1	38:BI:36:ASP:C	2.61	0.43
38:BI:36:ASP:OD2	38:BI:40:ARG:HB3	2.18	0.43
38:BI:97:GLY:O	38:BI:99:GLY:N	2.52	0.43
38:BI:137:GLU:O	38:BI:138:ALA:C	2.62	0.43
39:BJ:8:ILE:HG22	39:BJ:87:ARG:O	2.19	0.43
40:BK:15:ASP:HB3	40:BK:20:ASP:H	1.84	0.43
40:BK:146:GLU:HG2	40:BK:149:ARG:HD2	1.99	0.43
40:BK:152:ALA:C	40:BK:154:TYR:N	2.77	0.43
41:BL:70:GLN:NE2	41:BL:70:GLN:CA	2.76	0.43
41:BL:134:ILE:HB	41:BL:135:CYS:H	1.47	0.43
42:BM:23:ASN:HA	42:BM:57:GLY:O	2.18	0.43
42:BM:49:PRO:HB2	42:BM:82:ALA:HA	2.00	0.43
42:BM:72:GLY:O	42:BM:75:ASP:OD2	2.37	0.43
42:BM:113:LYS:NZ	42:BM:119:ALA:CB	2.72	0.43
42:BM:116:LYS:O	42:BM:117:HIS:C	2.62	0.43
43:BN:48:THR:OG1	43:BN:62:HIS:HB3	2.19	0.43
43:BN:81:THR:O	43:BN:83:GLU:N	2.52	0.43
43:BN:81:THR:O	43:BN:85:LEU:CD1	2.67	0.43
44:BO:23:ALA:CB	44:BO:28:THR:CG2	2.95	0.43
44:BO:50:TYR:CD1	44:BO:55:LYS:HA	2.54	0.43
48:BS:18:PHE:HA	48:BS:19:PRO:HD3	1.94	0.43
50:BU:22:LEU:HD12	50:BU:23:VAL:N	2.34	0.43
50:BU:83:ASP:O	50:BU:86:GLU:HB2	2.18	0.43
51:BV:45:SER:OG	51:BV:49:LYS:HE3	2.19	0.43
52:BW:22:LEU:C	52:BW:22:LEU:CD2	2.91	0.43
52:BW:46:GLY:C	52:BW:47:HIS:CG	2.97	0.43
53:BX:25:ARG:HB2	53:BX:25:ARG:CZ	2.49	0.43
53:BX:32:ALA:O	53:BX:33:ILE:C	2.62	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:13:ILE:HG22	54:BY:14:TRP:H	1.84	0.43
55:CA:9:ALA:HB1	55:CA:73:VAL:CB	2.26	0.43
55:CA:18:LYS:C	55:CA:19:THR:HG23	2.43	0.43
55:CA:97:LEU:N	55:CA:124:ILE:O	2.52	0.43
55:CA:153:ALA:HB3	55:CA:154:THR:CA	2.48	0.43
55:CA:156:GLU:HG3	55:CA:159:ASP:CA	2.49	0.43
55:CA:267:LEU:O	55:CA:268:ALA:HB3	2.19	0.43
55:CA:426:LEU:O	55:CA:428:ASN:N	2.52	0.43
55:CA:519:TYR:CZ	55:CA:522:GLN:HB2	2.54	0.43
55:CA:588:ARG:NE	55:CA:592:LEU:HD21	2.34	0.43
1:AA:81:G:O2'	1:AA:294:A:C2'	2.67	0.42
1:AA:150:C:O2'	1:AA:151:C:C5'	2.67	0.42
1:AA:243:U:H5'	31:Ae:5:LYS:HZ3	1.83	0.42
1:AA:268:C:C2	1:AA:269:U:C5	3.06	0.42
1:AA:358:U:O2	1:AA:358:U:H2'	2.19	0.42
1:AA:413:C:H42	1:AA:2410:G:H1	1.66	0.42
1:AA:461:C:O2	1:AA:461:C:C2'	2.64	0.42
1:AA:471:A:C5	1:AA:472:A:N7	2.87	0.42
1:AA:585:G:C6	1:AA:1251:C:C6	3.07	0.42
1:AA:600:G:H4'	6:AF:105:VAL:CG1	2.48	0.42
1:AA:602:G:H21	1:AA:655:A:H2'	1.84	0.42
1:AA:610:C:H2'	1:AA:611:C:C5	2.54	0.42
1:AA:784:A:OP1	1:AA:2587:A:O2'	2.36	0.42
1:AA:873:G:N1	1:AA:905:U:C2	2.87	0.42
1:AA:922:U:N3	1:AA:923:C:N4	2.66	0.42
1:AA:945:A:C2'	1:AA:946:G:H5''	2.49	0.42
1:AA:1025:G:C8	1:AA:1134:G:O4'	2.72	0.42
1:AA:1068:G:P	10:AJ:21:PRO:HG2	2.59	0.42
1:AA:1069:A:C5'	1:AA:1070:A:N7	2.82	0.42
1:AA:1212:G:N7	1:AA:1235:G:N1	2.67	0.42
1:AA:1231:G:C5	1:AA:1232:G:N7	2.87	0.42
1:AA:1378:A:O2'	1:AA:1379:A:OP1	2.36	0.42
1:AA:1391:U:C2	1:AA:1394:U:H5	2.37	0.42
1:AA:1426:G:H3'	1:AA:1427:A:H8	1.84	0.42
1:AA:1460:A:N1	1:AA:1732:A:C2	2.87	0.42
1:AA:1568:G:OP1	4:AD:86:PRO:HG2	2.18	0.42
1:AA:1583:A:HO2'	1:AA:1585:C:H6	1.67	0.42
1:AA:1588:C:C2	1:AA:1589:C:C5	3.07	0.42
1:AA:1615:C:C4	1:AA:1617:C:H1'	2.53	0.42
1:AA:1657:C:N3	1:AA:1658:C:C5	2.87	0.42
1:AA:1678:G:O2'	1:AA:1679:U:H5'	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1700:A:H2'	1:AA:1701:A:C4'	2.49	0.42
1:AA:1793:C:C4	1:AA:1794:U:O4	2.71	0.42
1:AA:1820:U:C1'	4:AD:202:LYS:CG	2.97	0.42
1:AA:1850:G:H2'	1:AA:1851:U:O4'	2.19	0.42
1:AA:1858:G:C6	1:AA:1883:G:N1	2.87	0.42
1:AA:1936:A:C1'	1:AA:1940:U:N3	2.82	0.42
1:AA:1941:C:C6	1:AA:1965:C:C2	3.07	0.42
1:AA:1944:U:O2'	1:AA:1955:U:H1'	2.18	0.42
1:AA:1964:G:C6	1:AA:1967:C:C5	3.07	0.42
1:AA:2025:C:C4	1:AA:2026:C:N4	2.87	0.42
1:AA:2032:G:H4'	1:AA:2033:A:OP1	2.19	0.42
1:AA:2069:G:C2	1:AA:2443:C:C4	3.07	0.42
1:AA:2117:A:N6	1:AA:2171:A:C2	2.86	0.42
1:AA:2226:C:O2	4:AD:262:ARG:NE	2.51	0.42
1:AA:2239:G:N3	1:AA:2240:C:C6	2.87	0.42
1:AA:2311:A:H2'	7:AG:43:LEU:CD2	2.49	0.42
1:AA:2348:U:O2'	1:AA:2349:G:H5'	2.19	0.42
1:AA:2387:U:OP2	1:AA:2387:U:C6	2.72	0.42
1:AA:2424:C:O2	1:AA:2424:C:C2'	2.65	0.42
1:AA:2491:U:C5	1:AA:2492:U:P	3.12	0.42
1:AA:2515:C:C2'	1:AA:2516:G:O5'	2.67	0.42
1:AA:2564:A:C2	1:AA:2647:U:C5'	3.02	0.42
1:AA:2567:G:H2'	1:AA:2568:C:H6	1.82	0.42
1:AA:2582:G:C8	1:AA:2582:G:C5'	2.98	0.42
1:AA:2584:U:H6	1:AA:2584:U:C3'	2.22	0.42
1:AA:2596:U:C3'	4:AD:242:ARG:CZ	2.96	0.42
1:AA:2596:U:O2'	4:AD:242:ARG:HD3	2.19	0.42
1:AA:2748:A:C5	1:AA:2757:A:N6	2.86	0.42
1:AA:2782:G:O4'	1:AA:2782:G:P	2.77	0.42
1:AA:2785:C:C2	1:AA:2786:U:C5	3.07	0.42
2:AB:85:G:C2	2:AB:86:G:C5	3.07	0.42
2:AB:88:C:C4	2:AB:89:G:N3	2.86	0.42
3:AC:25:ALA:O	3:AC:29:VAL:HG12	2.19	0.42
3:AC:114:VAL:HG12	3:AC:144:THR:HA	2.01	0.42
4:AD:28:GLU:N	4:AD:28:GLU:OE1	2.52	0.42
4:AD:37:LEU:CG	4:AD:63:ARG:HA	2.49	0.42
4:AD:55:GLY:HA3	4:AD:217:ARG:NH2	2.34	0.42
4:AD:61:LEU:O	4:AD:62:TYR:CG	2.72	0.42
4:AD:66:ASP:OD2	4:AD:103:ARG:NH1	2.45	0.42
4:AD:142:VAL:HB	4:AD:191:ALA:HB1	2.01	0.42
4:AD:181:GLU:CG	4:AD:268:ARG:NE	2.79	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:182:LEU:CG	4:AD:270:ILE:HD11	2.49	0.42
5:AE:34:VAL:HG11	5:AE:36:ARG:CZ	2.49	0.42
5:AE:49:LEU:CB	5:AE:76:ARG:O	2.67	0.42
5:AE:102:VAL:CG2	5:AE:200:GLU:OE1	2.61	0.42
6:AF:11:VAL:HG12	6:AF:13:SER:H	1.83	0.42
6:AF:53:THR:O	6:AF:56:GLU:HG3	2.19	0.42
7:AG:38:VAL:HG12	7:AG:93:THR:HG23	2.01	0.42
7:AG:44:GLY:CA	7:AG:88:ILE:HG21	2.48	0.42
7:AG:53:LEU:HA	7:AG:72:ARG:HH11	1.84	0.42
7:AG:56:ALA:C	7:AG:68:PRO:HG2	2.43	0.42
7:AG:80:PHE:CG	7:AG:81:LYS:N	2.87	0.42
7:AG:92:VAL:HG13	7:AG:94:LEU:HD22	1.99	0.42
7:AG:149:VAL:CG1	7:AG:150:ASP:H	2.32	0.42
8:AH:41:MET:SD	8:AH:64:LEU:CD2	3.06	0.42
8:AH:149:ARG:CG	8:AH:153:LYS:CD	2.97	0.42
10:AJ:10:LEU:H	10:AJ:56:GLU:CD	2.27	0.42
10:AJ:23:VAL:CG1	10:AJ:41:PHE:CZ	2.97	0.42
10:AJ:33:ASN:HB2	10:AJ:60:TYR:O	2.19	0.42
11:AK:7:LYS:HB2	11:AK:8:GLN:H	1.50	0.42
12:AL:22:ILE:HB	12:AL:40:VAL:HG11	2.01	0.42
12:AL:25:LEU:HB2	12:AL:39:ILE:HA	2.00	0.42
12:AL:89:ASN:HD21	12:AL:91:LEU:HB2	1.74	0.42
12:AL:100:GLY:HA2	12:AL:118:ALA:O	2.19	0.42
12:AL:106:LEU:HD12	12:AL:107:ARG:HA	2.00	0.42
13:AM:81:GLN:CB	13:AM:86:LYS:HE3	2.48	0.42
13:AM:99:LEU:CD2	13:AM:101:VAL:HG22	2.47	0.42
13:AM:126:VAL:HB	13:AM:146:VAL:CG2	2.48	0.42
15:AO:20:LEU:HD13	15:AO:21:TYR:CA	2.49	0.42
16:AP:17:ARG:NH2	16:AP:89:ARG:HB2	2.25	0.42
16:AP:47:THR:O	16:AP:48:LEU:O	2.37	0.42
17:AQ:37:GLY:HA3	17:AQ:42:ILE:O	2.18	0.42
18:AR:65:ILE:HG23	18:AR:96:ALA:CA	2.49	0.42
19:AS:6:LYS:HZ3	19:AS:10:LYS:CD	2.30	0.42
19:AS:22:VAL:C	19:AS:93:GLU:HB3	2.44	0.42
19:AS:40:LEU:HG	19:AS:55:ALA:H	1.68	0.42
20:AT:5:ALA:CB	20:AT:105:VAL:HG13	2.49	0.42
20:AT:8:ARG:HA	20:AT:102:HIS:CD2	2.54	0.42
20:AT:11:ARG:CB	20:AT:98:LYS:HE3	2.23	0.42
20:AT:24:ILE:HD11	20:AT:47:VAL:HG11	2.00	0.42
20:AT:58:ALA:HB1	20:AT:69:LEU:HD21	2.01	0.42
21:AU:15:GLU:N	21:AU:16:LYS:HE2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:50:ARG:HG3	22:AV:54:LYS:CB	2.40	0.42
22:AV:65:ALA:O	22:AV:66:PRO:C	2.62	0.42
22:AV:72:VAL:HG23	22:AV:81:LYS:HE2	1.97	0.42
22:AV:96:ILE:HD12	22:AV:103:GLY:HA2	2.00	0.42
23:AW:19:ARG:HH21	23:AW:84:GLU:CA	2.32	0.42
23:AW:73:GLN:O	23:AW:74:VAL:CG2	2.65	0.42
23:AW:122:ARG:O	23:AW:124:ILE:N	2.50	0.42
24:AX:46:LYS:HE2	24:AX:77:ARG:H	1.82	0.42
24:AX:60:PHE:C	24:AX:60:PHE:CD1	2.96	0.42
27:Aa:38:LYS:HG2	27:Aa:39:CYS:N	2.25	0.42
29:Ac:15:GLU:CD	29:Ac:21:TYR:CB	2.87	0.42
30:Ad:21:ARG:C	30:Ad:31:LEU:HD11	2.44	0.42
33:Ag:305:UNK:O	33:Ag:306:UNK:C	2.67	0.42
34:BA:50:A:H2	34:BA:360:A:C2'	2.32	0.42
34:BA:60:A:N1	34:BA:107:G:O2'	2.50	0.42
34:BA:134:A:C8	34:BA:134:A:O5'	2.72	0.42
34:BA:193:C:N3	34:BA:194:C:N4	2.67	0.42
34:BA:248:C:H4'	34:BA:283:C:H1'	2.01	0.42
34:BA:253:U:H2'	34:BA:254:G:C8	2.54	0.42
34:BA:319:G:H2'	34:BA:320:C:H5'	2.01	0.42
34:BA:377:G:P	49:BT:5:ARG:HD3	2.58	0.42
34:BA:380:G:C6	34:BA:384:G:O6	2.71	0.42
34:BA:438:G:C2	34:BA:495:A:C8	3.07	0.42
34:BA:555:C:O2	34:BA:555:C:H2'	2.18	0.42
34:BA:684:A:O4'	44:BO:38:ASN:ND2	2.51	0.42
34:BA:687:A:C2	34:BA:704:A:C5	3.07	0.42
34:BA:701:C:H5''	34:BA:702:A:C3'	2.49	0.42
34:BA:766:A:C2	34:BA:767:A:C1'	3.01	0.42
34:BA:781:A:C2	34:BA:782:A:H1'	2.54	0.42
34:BA:828:A:C2'	34:BA:829:G:O4'	2.57	0.42
34:BA:855:G:H2'	34:BA:856:C:C5'	2.49	0.42
34:BA:872:A:C2	34:BA:874:G:N7	2.87	0.42
34:BA:880:C:OP2	45:BP:9:GLN:NE2	2.52	0.42
34:BA:893:C:H2'	34:BA:894:G:H8	1.84	0.42
34:BA:899:C:C4	34:BA:900:A:C6	3.07	0.42
34:BA:975:A:O2'	34:BA:1358:U:C1'	2.54	0.42
34:BA:1051:C:H2'	34:BA:1052:U:O4'	2.19	0.42
34:BA:1099:G:H2'	34:BA:1100:C:O5'	2.19	0.42
34:BA:1161:C:C2	34:BA:1162:C:N4	2.87	0.42
34:BA:1161:C:H2'	34:BA:1162:C:H6	1.83	0.42
34:BA:1243:C:N3	34:BA:1244:C:C5	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1276:G:HO2'	34:BA:1282:C:H4'	1.84	0.42
34:BA:1319:A:C4'	52:BW:37:ARG:CB	2.97	0.42
34:BA:1325:C:H2'	34:BA:1326:C:C6	2.54	0.42
34:BA:1358:U:C5	34:BA:1359:C:C5	3.06	0.42
34:BA:1368:G:H2'	34:BA:1369:C:H6	1.84	0.42
35:BF:80:ILE:HG22	35:BF:81:VAL:N	2.33	0.42
35:BF:105:PHE:O	35:BF:109:SER:CB	2.67	0.42
35:BF:131:PRO:C	35:BF:134:GLU:H	2.27	0.42
35:BF:208:ILE:O	35:BF:211:ILE:HB	2.18	0.42
35:BF:215:LEU:HD22	35:BF:215:LEU:HA	1.82	0.42
36:BG:22:TRP:CZ3	36:BG:32:LEU:HD13	2.53	0.42
36:BG:36:ASP:O	36:BG:36:ASP:OD2	2.36	0.42
36:BG:50:ALA:CA	36:BG:72:LYS:HD2	2.49	0.42
36:BG:82:GLU:O	36:BG:83:ARG:C	2.61	0.42
36:BG:100:ALA:O	36:BG:102:ASN:CG	2.62	0.42
36:BG:124:ILE:CD1	36:BG:130:VAL:CG1	2.97	0.42
36:BG:142:MET:CG	36:BG:170:GLN:CD	2.92	0.42
37:BH:91:SER:O	37:BH:94:LEU:N	2.51	0.42
37:BH:93:PHE:C	37:BH:95:GLY:N	2.77	0.42
38:BI:51:VAL:CB	38:BI:52:PRO:HD3	2.30	0.42
38:BI:65:ASN:HD21	38:BI:136:MET:CE	2.32	0.42
39:BJ:24:GLU:OE2	39:BJ:28:ARG:NH2	2.43	0.42
39:BJ:50:TYR:N	39:BJ:50:TYR:CD2	2.87	0.42
39:BJ:82:ARG:C	39:BJ:83:ASP:CG	2.87	0.42
40:BK:46:ALA:O	40:BK:47:CYS:C	2.60	0.42
40:BK:74:GLU:HA	40:BK:145:ALA:HB3	1.98	0.42
41:BL:72:PRO:O	41:BL:73:ASP:CB	2.66	0.42
41:BL:97:VAL:CG1	41:BL:98:LYS:NZ	2.81	0.42
42:BM:33:PHE:CZ	42:BM:46:ALA:HB3	2.54	0.42
42:BM:66:ARG:HE	42:BM:66:ARG:HB3	1.70	0.42
42:BM:80:GLY:O	42:BM:81:ILE:C	2.61	0.42
43:BN:6:ILE:CD1	43:BN:73:ASP:H	2.30	0.42
43:BN:12:ASP:O	43:BN:15:THR:CG2	2.67	0.42
43:BN:60:ARG:NH1	43:BN:60:ARG:C	2.77	0.42
44:BO:59:TYR:CD1	44:BO:62:GLN:NE2	2.87	0.42
44:BO:99:GLN:O	44:BO:105:VAL:CG2	2.67	0.42
45:BP:53:ARG:NH2	45:BP:92:ASP:HB3	2.34	0.42
45:BP:59:ARG:HE	45:BP:65:GLU:HG2	1.84	0.42
47:BR:35:ARG:O	47:BR:36:PHE:C	2.61	0.42
48:BS:7:GLU:O	48:BS:8:LYS:C	2.62	0.42
48:BS:62:GLN:CD	48:BS:65:ARG:HH21	2.27	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:1:MET:HB3	49:BT:3:LYS:HZ1	1.84	0.42
49:BT:57:ARG:O	49:BT:60:LEU:N	2.52	0.42
51:BV:53:ARG:CA	51:BV:63:GLN:HE21	2.25	0.42
51:BV:62:GLU:HB3	51:BV:66:LEU:HD23	2.00	0.42
53:BX:8:ARG:NH1	53:BX:8:ARG:CB	2.81	0.42
53:BX:79:ARG:HG3	53:BX:79:ARG:NH1	2.34	0.42
53:BX:88:VAL:O	53:BX:92:LEU:CG	2.66	0.42
55:CA:11:ILE:HG22	55:CA:12:ALA:H	1.82	0.42
55:CA:251:VAL:HG11	55:CA:273:ILE:HB	1.12	0.42
1:AA:28:A:N3	1:AA:29:U:H4'	2.34	0.42
1:AA:97:C:C4	1:AA:98:G:C8	3.08	0.42
1:AA:138:G:N3	1:AA:138:G:H2'	2.33	0.42
1:AA:164:U:H3'	1:AA:164:U:O2	2.20	0.42
1:AA:216:A:C2	1:AA:217:G:C6	3.07	0.42
1:AA:278:A:O2'	1:AA:279:C:O4'	2.35	0.42
1:AA:364:C:H2'	1:AA:365:C:H5	1.72	0.42
1:AA:374:A:H2'	1:AA:374:A:N3	2.35	0.42
1:AA:379:G:C6	1:AA:396:G:C6	3.07	0.42
1:AA:408:G:H2'	1:AA:409:C:H6	1.84	0.42
1:AA:479:A:C2'	1:AA:480:A:OP2	2.66	0.42
1:AA:489:G:C2	1:AA:491:G:C4	3.07	0.42
1:AA:531:C:H42	18:AR:38:THR:HG22	1.83	0.42
1:AA:545:G:O3'	1:AA:546:C:C5	2.72	0.42
1:AA:580:C:N3	1:AA:581:C:C5	2.87	0.42
1:AA:618(A):C:OP2	6:AF:107:LYS:NZ	2.49	0.42
1:AA:626:U:O2	1:AA:626:U:C2'	2.65	0.42
1:AA:662:G:OP1	13:AM:19:VAL:CG1	2.68	0.42
1:AA:668:G:H5'	1:AA:669:G:OP2	2.19	0.42
1:AA:702:G:H2'	1:AA:703:U:O5'	2.20	0.42
1:AA:769:G:N3	1:AA:770:G:C8	2.87	0.42
1:AA:819:A:H2'	1:AA:820:A:C1'	2.49	0.42
1:AA:819:A:C2'	1:AA:820:A:H8	2.30	0.42
1:AA:822:U:O2	1:AA:823:G:C8	2.72	0.42
1:AA:849:A:H3'	1:AA:850:C:C6	2.53	0.42
1:AA:863:A:C2	1:AA:864:G:C6	3.08	0.42
1:AA:884:C:O5'	1:AA:884:C:H6	2.01	0.42
1:AA:903:C:H2'	1:AA:904:C:H6	1.66	0.42
1:AA:983:A:H2'	1:AA:984:A:N7	2.34	0.42
1:AA:1002:G:C2'	1:AA:1003:G:O5'	2.67	0.42
1:AA:1008:C:OP1	1:AA:1008:C:C6	2.72	0.42
1:AA:1051:G:C8	1:AA:2752:C:OP1	2.73	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1060:U:OP1	10:AJ:52:ILE:HD12	2.18	0.42
1:AA:1089:G:C8	1:AA:1089:G:O5'	2.70	0.42
1:AA:1134:G:N3	1:AA:1134:G:H2'	2.34	0.42
1:AA:1165:U:O2'	1:AA:1166:C:C6	2.68	0.42
1:AA:1197:G:C6	1:AA:1198:U:C6	3.06	0.42
1:AA:1294:U:C2'	1:AA:1295:C:H5'	2.48	0.42
1:AA:1296:G:N3	1:AA:1297:C:C5	2.87	0.42
1:AA:1305:C:O2'	1:AA:1306:C:H5'	2.19	0.42
1:AA:1314:C:N3	1:AA:1315:C:C4	2.88	0.42
1:AA:1334:G:OP1	21:AU:65:ARG:NH1	2.52	0.42
1:AA:1449:A:C8	1:AA:1529:A:C2	3.07	0.42
1:AA:1518:C:C2	1:AA:1519:G:O4'	2.72	0.42
1:AA:1532:C:OP2	1:AA:1532:C:C6	2.72	0.42
1:AA:1663:C:H5''	1:AA:1664:A:OP1	2.18	0.42
1:AA:1691:C:H2'	1:AA:1692:U:C5'	2.48	0.42
1:AA:1826:G:N2	1:AA:1827:C:C1'	2.82	0.42
1:AA:1842:G:C6	1:AA:1901:A:C6	3.07	0.42
1:AA:1912:A:C6	34:BA:1495:U:N3	2.71	0.42
1:AA:1969:A:C4'	1:AA:1970:A:H5'	2.37	0.42
1:AA:1988:C:H2'	1:AA:1989:G:C5'	2.48	0.42
1:AA:2011:U:C2'	1:AA:2012:G:O4'	2.65	0.42
1:AA:2067:G:N1	1:AA:2069:G:C5	2.87	0.42
1:AA:2182:G:C4	1:AA:2183:C:C6	3.07	0.42
1:AA:2262:U:C4'	1:AA:2328:A:C2	2.97	0.42
1:AA:2284:C:N3	1:AA:2285:C:C4	2.87	0.42
1:AA:2335:A:C2'	1:AA:2337:G:C8	3.02	0.42
1:AA:2353:G:N1	1:AA:2365:G:C2	2.87	0.42
1:AA:2369:A:N6	1:AA:2382:G:H22	2.16	0.42
1:AA:2395:C:N4	1:AA:2396:G:N7	2.67	0.42
1:AA:2479:G:H2'	1:AA:2480:C:O4'	2.19	0.42
1:AA:2507:C:N1	1:AA:2583:G:N2	2.68	0.42
1:AA:2536:G:C5	1:AA:2537:U:C5	3.07	0.42
1:AA:2564:A:C5	1:AA:2565:A:N7	2.88	0.42
1:AA:2589:A:OP1	4:AD:226:MET:SD	2.77	0.42
1:AA:2605:U:H2'	1:AA:2606:C:H5'	2.01	0.42
1:AA:2660:A:C8	1:AA:2660:A:O5'	2.72	0.42
1:AA:2666:C:C3'	1:AA:2666:C:C6	3.02	0.42
1:AA:2690:C:N4	15:AO:14:SER:OG	2.52	0.42
1:AA:2894:G:N3	1:AA:2894:G:H2'	2.34	0.42
2:AB:16:G:C6	2:AB:17:C:C4	3.07	0.42
3:AC:19:ILE:CG2	3:AC:19:ILE:O	2.66	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:28:LEU:O	3:AC:32:LEU:CG	2.66	0.42
3:AC:103:ILE:CG2	3:AC:108:MET:SD	3.08	0.42
3:AC:189:ILE:HD13	3:AC:224:ILE:HD12	2.01	0.42
3:AC:214:VAL:HG23	3:AC:224:ILE:CD1	2.45	0.42
4:AD:133:LEU:CA	4:AD:136:ILE:HG13	2.49	0.42
4:AD:245:PRO:HA	4:AD:246:PRO:HD3	1.68	0.42
4:AD:257:LEU:C	4:AD:258:LYS:O	2.62	0.42
5:AE:115:GLY:O	5:AE:117:MET:C	2.63	0.42
5:AE:185:LYS:O	5:AE:185:LYS:HG2	2.19	0.42
6:AF:61:GLY:O	6:AF:62:ARG:C	2.62	0.42
6:AF:170:LEU:HB3	6:AF:171:PRO:CD	2.49	0.42
7:AG:68:PRO:CG	7:AG:72:ARG:NH2	2.77	0.42
7:AG:86:MET:H	7:AG:87:PRO:HD2	1.81	0.42
7:AG:96:ARG:C	7:AG:100:TRP:CE3	2.97	0.42
7:AG:150:ASP:O	7:AG:152:LEU:N	2.52	0.42
8:AH:95:ARG:O	8:AH:105:LEU:HA	2.18	0.42
8:AH:105:LEU:O	8:AH:113:VAL:CG2	2.67	0.42
8:AH:155:SER:HB2	8:AH:159:GLU:HA	2.01	0.42
10:AJ:19:PRO:HB2	10:AJ:23:VAL:O	2.18	0.42
10:AJ:60:TYR:CG	10:AJ:61:ALA:N	2.80	0.42
11:AK:34:LEU:HD21	11:AK:52:VAL:CG1	2.44	0.42
11:AK:38:HIS:CE1	18:AR:70:ARG:HH22	2.37	0.42
11:AK:72:TYR:CD1	11:AK:72:TYR:O	2.72	0.42
12:AL:40:VAL:HA	12:AL:58:VAL:HG12	2.00	0.42
12:AL:73:ASP:HB3	17:AQ:79:HIS:NE2	2.34	0.42
12:AL:113:LYS:HD2	12:AL:113:LYS:HA	1.89	0.42
13:AM:72:PRO:CB	13:AM:110:TYR:O	2.67	0.42
13:AM:91:PHE:CE2	13:AM:96:THR:HA	2.54	0.42
13:AM:96:THR:O	13:AM:97:PRO:C	2.57	0.42
14:AN:68:ILE:HG21	14:AN:95:ALA:HB2	2.00	0.42
16:AP:3:ARG:CG	16:AP:3:ARG:HH11	2.29	0.42
16:AP:33:LYS:CD	16:AP:54:LEU:HD21	2.49	0.42
19:AS:3:ALA:CB	19:AS:44:LYS:CE	2.97	0.42
19:AS:65:GLY:O	19:AS:66:ARG:CG	2.47	0.42
20:AT:3:ALA:HB2	20:AT:58:ALA:HB2	2.01	0.42
20:AT:17:VAL:C	20:AT:20:VAL:HG12	2.39	0.42
21:AU:12:VAL:HA	21:AU:29:TRP:CD1	2.54	0.42
21:AU:39:ILE:CG2	21:AU:54:VAL:CG1	2.96	0.42
23:AW:45:ASP:C	23:AW:47:VAL:N	2.74	0.42
23:AW:55:HIS:ND1	23:AW:55:HIS:N	2.67	0.42
23:AW:102:LEU:CD2	23:AW:125:LEU:HD12	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:139:VAL:HG11	23:AW:155:LEU:O	2.19	0.42
23:AW:157:LEU:HD22	23:AW:161:VAL:HG13	2.00	0.42
24:AX:25:ARG:HD3	24:AX:25:ARG:HA	1.82	0.42
24:AX:27:GLU:OE1	24:AX:27:GLU:CA	2.67	0.42
24:AX:53:MET:HE3	24:AX:57:PHE:C	2.44	0.42
25:AY:4:GLN:O	25:AY:5:LEU:C	2.62	0.42
29:Ac:16:CYS:HB3	29:Ac:49:HIS:CE1	2.51	0.42
29:Ac:16:CYS:O	29:Ac:19:ARG:HD3	2.20	0.42
30:Ad:34:ARG:HH22	30:Ad:42:LEU:CA	2.16	0.42
34:BA:194:C:H4'	53:BX:68:LYS:HE2	2.00	0.42
34:BA:273:A:C2	34:BA:274:A:C1'	2.91	0.42
34:BA:333:G:C2	34:BA:334:C:C4	3.07	0.42
34:BA:392:G:C5'	49:BT:12:LYS:NZ	2.78	0.42
34:BA:443:C:N1	34:BA:492:G:N2	2.67	0.42
34:BA:452:A:C6	34:BA:453:A:N6	2.88	0.42
34:BA:597:G:C2'	34:BA:598:U:C5'	2.94	0.42
34:BA:643:C:C4	34:BA:644:G:N7	2.87	0.42
34:BA:648:A:O2'	34:BA:649:G:H5'	2.19	0.42
34:BA:765:G:OP1	48:BS:50:HIS:CD2	2.72	0.42
34:BA:766:A:C8	34:BA:814:A:N1	2.87	0.42
34:BA:841:U:O2	34:BA:841:U:C2'	2.63	0.42
34:BA:872:A:O2'	34:BA:873:A:C5'	2.58	0.42
34:BA:874:G:H2'	34:BA:875:C:H5'	2.01	0.42
34:BA:892:A:C2	34:BA:907:A:C4	3.07	0.42
34:BA:945:G:C2	34:BA:1337:G:N3	2.86	0.42
34:BA:1103:C:C2	34:BA:1104:G:C8	3.07	0.42
34:BA:1297:C:H5'	34:BA:1298:C:OP1	2.19	0.42
34:BA:1316:G:N2	34:BA:1319:A:C5	2.84	0.42
34:BA:1371:G:H5''	42:BM:68:GLY:C	2.45	0.42
34:BA:1416:G:C6	34:BA:1485:U:C2	3.07	0.42
34:BA:1499:A:O2'	34:BA:1500:A:H5'	2.17	0.42
35:BF:31:TYR:CZ	35:BF:200:ILE:HG21	2.51	0.42
35:BF:47:THR:HB	35:BF:48:MET:SD	2.59	0.42
35:BF:144:ARG:O	35:BF:145:LEU:C	2.60	0.42
35:BF:160:ASP:HB3	35:BF:182:ILE:CG2	2.35	0.42
35:BF:163:PHE:CZ	35:BF:186:ALA:CA	3.02	0.42
35:BF:221:LEU:HD13	35:BF:221:LEU:O	2.19	0.42
36:BG:54:ARG:O	36:BG:68:VAL:HG13	2.19	0.42
36:BG:82:GLU:O	36:BG:85:ARG:CB	2.65	0.42
36:BG:117:ALA:O	36:BG:121:ALA:HB2	2.18	0.42
36:BG:120:VAL:HG13	36:BG:133:ALA:HB1	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:126:ILE:H	37:BH:132:ARG:HD2	1.84	0.42
37:BH:161:ASN:O	37:BH:165:MET:CB	2.67	0.42
38:BI:5:ASP:HB3	38:BI:6:PHE:H	1.61	0.42
38:BI:71:LEU:HD11	38:BI:74:GLY:CA	2.37	0.42
38:BI:71:LEU:CG	38:BI:72:GLN:N	2.82	0.42
38:BI:105:VAL:HG12	38:BI:106:PRO:HD3	1.99	0.42
38:BI:127:ASN:OD1	38:BI:127:ASN:C	2.61	0.42
39:BJ:2:ARG:HH11	39:BJ:69:GLU:HB3	1.84	0.42
39:BJ:97:PHE:CE2	51:BV:65:ILE:HD11	2.54	0.42
40:BK:29:LYS:HE3	40:BK:101:LEU:CD1	2.39	0.42
40:BK:88:PRO:HD2	40:BK:152:ALA:CA	2.49	0.42
41:BL:5:PRO:HA	41:BL:8:ASP:CB	2.42	0.42
41:BL:54:ASP:C	41:BL:56:LYS:N	2.74	0.42
41:BL:104:ARG:HB2	41:BL:108:GLY:H	1.83	0.42
41:BL:111:ILE:CG2	41:BL:118:VAL:CG1	2.97	0.42
42:BM:116:LYS:HB3	42:BM:122:ALA:N	2.34	0.42
43:BN:13:HIS:ND1	43:BN:13:HIS:O	2.52	0.42
43:BN:56:HIS:C	43:BN:58:ASP:N	2.78	0.42
43:BN:65:LEU:HD13	47:BR:36:PHE:HE2	1.81	0.42
44:BO:21:ILE:O	44:BO:21:ILE:HG13	2.19	0.42
44:BO:66:LEU:O	44:BO:67:ASP:C	2.61	0.42
44:BO:99:GLN:HG3	44:BO:99:GLN:H	1.61	0.42
44:BO:110:ASP:HA	51:BV:88:LYS:HD3	2.01	0.42
45:BP:102:ARG:NH1	45:BP:110:VAL:HA	2.34	0.42
45:BP:102:ARG:NE	45:BP:109:GLY:HA2	2.33	0.42
46:BQ:22:ILE:CG1	46:BQ:25:ILE:CD1	2.82	0.42
46:BQ:50:GLU:HG3	46:BQ:54:VAL:HG23	2.00	0.42
46:BQ:77:ASN:O	46:BQ:81:LEU:CD1	2.65	0.42
48:BS:69:TYR:CZ	48:BS:73:GLU:HG3	2.54	0.42
49:BT:19:ILE:O	49:BT:36:ILE:O	2.37	0.42
49:BT:19:ILE:CG2	49:BT:36:ILE:O	2.67	0.42
50:BU:65:ILE:HG23	50:BU:69:LYS:CD	2.41	0.42
51:BV:81:PHE:O	51:BV:82:THR:CG2	2.67	0.42
53:BX:64:ASP:O	53:BX:67:ALA:CA	2.66	0.42
55:CA:495:LYS:C	55:CA:515:GLY:O	2.62	0.42
1:AA:7:G:C2	1:AA:8:A:C4	3.07	0.42
1:AA:154:G:C2	1:AA:155:C:C2	3.07	0.42
1:AA:241:A:H3'	1:AA:241:A:N3	2.34	0.42
1:AA:247:G:C6	31:Ae:11:LYS:NZ	2.87	0.42
1:AA:251:A:O2'	1:AA:252:G:OP1	2.36	0.42
1:AA:270:A:O2'	1:AA:270(A):A:OP1	2.32	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:270(C):C:OP1	1:AA:365:C:C2'	2.67	0.42
1:AA:287:C:C2'	1:AA:287:C:O2	2.65	0.42
1:AA:291:C:C4	1:AA:292:C:C5	3.08	0.42
1:AA:412:A:C2'	1:AA:413:C:H5'	2.49	0.42
1:AA:449:A:P	6:AF:85:GLY:HA2	2.59	0.42
1:AA:465:G:N2	1:AA:683:C:C2'	2.83	0.42
1:AA:479:A:O2'	1:AA:480:A:C8	2.69	0.42
1:AA:491:G:H3'	1:AA:492:A:H8	1.84	0.42
1:AA:528:A:C3'	1:AA:528:A:C8	3.03	0.42
1:AA:565:C:H1'	1:AA:577:G:N2	2.34	0.42
1:AA:625:G:N1	13:AM:100:LEU:HB3	2.34	0.42
1:AA:631:A:H3'	1:AA:631:A:C8	2.53	0.42
1:AA:684:G:C2	1:AA:794:G:N2	2.87	0.42
1:AA:727:A:N1	1:AA:729:G:C5	2.87	0.42
1:AA:736:C:N4	1:AA:737:C:N4	2.68	0.42
1:AA:823:G:C4	1:AA:835:A:C2	3.06	0.42
1:AA:861:A:C5	1:AA:862:G:C8	3.07	0.42
1:AA:874:G:C6	1:AA:875:G:O6	2.73	0.42
1:AA:901:A:C2	1:AA:902:C:N1	2.88	0.42
1:AA:947:G:N2	1:AA:971:C:C2	2.88	0.42
1:AA:1028:A:O2'	1:AA:1029:A:H5'	2.19	0.42
1:AA:1046:A:O2'	9:AI:61:LEU:HA	2.19	0.42
1:AA:1148:A:N1	1:AA:1149:G:C6	2.87	0.42
1:AA:1152:C:OP1	18:AR:81:HIS:CE1	2.73	0.42
1:AA:1188:U:C2'	1:AA:1189:A:C5'	2.96	0.42
1:AA:1270:C:C4'	1:AA:1271:G:H5'	2.33	0.42
1:AA:1292:U:C2	1:AA:1293:C:C5	3.07	0.42
1:AA:1323:U:OP2	20:AT:84:ARG:NH2	2.51	0.42
1:AA:1341:U:C4	1:AA:1398:C:H5'	2.53	0.42
1:AA:1372:U:C6	1:AA:1372:U:H3'	2.54	0.42
1:AA:1529:A:C8	1:AA:1530:G:C4	3.08	0.42
1:AA:1685:C:O2'	1:AA:1686:C:C5'	2.60	0.42
1:AA:1780:A:P	1:AA:1782:C:P	3.17	0.42
1:AA:1806:C:H2'	1:AA:1807:G:H5'	2.01	0.42
1:AA:1808:U:C2	1:AA:1810:A:H2	2.38	0.42
1:AA:1816:G:OP2	4:AD:43:ARG:CZ	2.67	0.42
1:AA:1817:G:H2'	1:AA:1818:U:C5'	2.49	0.42
1:AA:1863:G:C5	1:AA:1864:U:C4	3.07	0.42
1:AA:1887:C:H2'	1:AA:1888:G:O4'	2.20	0.42
1:AA:1997:G:H2'	1:AA:1998:G:C8	2.54	0.42
1:AA:2018:G:C6	1:AA:2019:A:C2	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2129:C:P	3:AC:6:ARG:CG	3.07	0.42
1:AA:2208:U:C4'	4:AD:151:LYS:NZ	2.76	0.42
1:AA:2227:A:C5'	4:AD:260:ARG:CD	2.91	0.42
1:AA:2285:C:C6	29:Ac:27:LYS:HE2	2.55	0.42
1:AA:2509:G:N1	1:AA:2580:U:C2	2.87	0.42
1:AA:2651:C:O2	1:AA:2670:A:C5	2.71	0.42
1:AA:2698:U:N3	1:AA:2699:C:N4	2.68	0.42
1:AA:2772:C:N3	1:AA:2773:C:C5	2.87	0.42
1:AA:2787:C:H1'	5:AE:61:ARG:HH11	1.83	0.42
1:AA:2804:C:N3	1:AA:2805:G:C6	2.87	0.42
1:AA:2808:U:O2	1:AA:2810:A:C8	2.72	0.42
1:AA:2812:G:N1	1:AA:2813:A:C6	2.87	0.42
1:AA:2826:A:H2'	1:AA:2827:C:H5'	2.01	0.42
1:AA:2884:U:H2'	1:AA:2885:C:H5'	2.01	0.42
2:AB:4:C:N4	2:AB:117:G:N1	2.67	0.42
2:AB:59:A:C3'	2:AB:60:C:H5'	2.48	0.42
3:AC:22:ILE:CD1	3:AC:190:ARG:CZ	2.97	0.42
3:AC:46:LYS:HE2	3:AC:210:ARG:HE	1.82	0.42
3:AC:54:SER:C	3:AC:56:GLN:H	2.26	0.42
3:AC:86:ALA:HB2	3:AC:149:ILE:HG12	2.01	0.42
3:AC:128:GLY:HA2	3:AC:137:LEU:HD11	2.02	0.42
4:AD:9:TYR:O	4:AD:10:THR:OG1	2.34	0.42
4:AD:133:LEU:HB3	4:AD:136:ILE:CD1	2.29	0.42
4:AD:208:LYS:HB3	4:AD:211:ARG:CG	2.50	0.42
5:AE:37:ARG:H	5:AE:40:GLU:HB2	1.83	0.42
5:AE:179:GLU:HB2	5:AE:181:LEU:CG	2.48	0.42
6:AF:169:ASN:ND2	6:AF:171:PRO:HG2	2.33	0.42
7:AG:39:ILE:CG1	7:AG:157:ILE:CD1	2.93	0.42
7:AG:44:GLY:C	7:AG:46:ALA:N	2.75	0.42
7:AG:55:LYS:HE3	7:AG:152:LEU:CD2	2.41	0.42
7:AG:55:LYS:HZ1	7:AG:152:LEU:HD11	1.84	0.42
7:AG:68:PRO:CB	7:AG:72:ARG:NH2	2.79	0.42
7:AG:99:MET:O	7:AG:102:PHE:HB2	2.18	0.42
7:AG:116:ASP:CB	7:AG:118:ARG:NH2	2.76	0.42
7:AG:125:PHE:O	7:AG:126:ASP:CB	2.61	0.42
7:AG:166:ASP:C	7:AG:168:GLU:N	2.77	0.42
8:AH:97:ARG:O	8:AH:99:VAL:HG23	2.18	0.42
10:AJ:23:VAL:HG11	10:AJ:37:PHE:CG	2.54	0.42
10:AJ:112:MET:CE	10:AJ:121:GLU:C	2.76	0.42
11:AK:8:GLN:O	11:AK:10:GLU:N	2.53	0.42
11:AK:23:LEU:HD23	11:AK:23:LEU:N	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:135:PRO:C	11:AK:136:GLU:O	2.62	0.42
12:AL:77:ILE:CA	12:AL:78:ARG:NH1	2.82	0.42
13:AM:86:LYS:HZ1	13:AM:99:LEU:CD1	2.32	0.42
13:AM:107:LYS:NZ	13:AM:111:ARG:N	2.67	0.42
14:AN:16:ARG:HH21	14:AN:73:PRO:HG3	1.84	0.42
14:AN:64:ILE:CG2	14:AN:106:VAL:O	2.65	0.42
14:AN:132:VAL:HB	14:AN:133:ARG:CZ	2.49	0.42
15:AO:5:LYS:NZ	15:AO:6:SER:CA	2.82	0.42
15:AO:117:VAL:HG22	15:AO:117:VAL:O	2.18	0.42
16:AP:29:PHE:C	16:AP:30:ARG:CG	2.93	0.42
17:AQ:20:PRO:HA	17:AQ:22:PHE:CE1	2.54	0.42
17:AQ:67:SER:CB	17:AQ:75:ILE:CG2	2.98	0.42
18:AR:59:ARG:HA	18:AR:62:ILE:HB	2.00	0.42
19:AS:68:LYS:HG2	19:AS:95:LEU:CD1	2.47	0.42
20:AT:33:ARG:HH22	20:AT:48:ALA:CB	2.22	0.42
23:AW:94:GLU:C	23:AW:130:PRO:HG3	2.44	0.42
25:AY:23:LYS:HD3	25:AY:55:LEU:HD21	2.01	0.42
26:AZ:55:ARG:HH11	26:AZ:55:ARG:CG	2.30	0.42
27:Aa:21:VAL:CG1	27:Aa:23:GLU:CG	2.97	0.42
32:Af:7:VAL:CG2	32:Af:36:GLN:NE2	2.77	0.42
32:Af:15:LYS:O	32:Af:25:VAL:HA	2.19	0.42
34:BA:19:C:OP1	38:BI:86:ALA:HB1	2.20	0.42
34:BA:20:U:N3	34:BA:21:G:C5	2.88	0.42
34:BA:61:G:C6	34:BA:62:U:N3	2.88	0.42
34:BA:182:U:O2	34:BA:182:U:C2'	2.67	0.42
34:BA:188:U:C2'	34:BA:189:U:O5'	2.68	0.42
34:BA:246:A:H1'	34:BA:247:G:C1'	2.48	0.42
34:BA:259:G:C2	34:BA:260:G:N3	2.87	0.42
34:BA:293:G:N3	34:BA:294:U:C6	2.87	0.42
34:BA:377:G:H2'	34:BA:378:G:H8	1.84	0.42
34:BA:424:G:N3	34:BA:425:G:C8	2.86	0.42
34:BA:450:G:N7	34:BA:481:G:C5	2.86	0.42
34:BA:494:U:O2	34:BA:495:A:O4'	2.37	0.42
34:BA:558:G:O5'	34:BA:559:A:O3'	2.37	0.42
34:BA:580:U:H2'	34:BA:580:U:O2	2.19	0.42
34:BA:632:A:O2'	34:BA:633:G:H5'	2.19	0.42
34:BA:683:G:N3	44:BO:38:ASN:ND2	2.68	0.42
34:BA:713:G:C2'	34:BA:714:G:C8	2.94	0.42
34:BA:736:C:C5'	51:BV:72:ARG:NH2	2.68	0.42
34:BA:856:C:H2'	34:BA:856:C:O2	2.19	0.42
34:BA:924:C:H2'	34:BA:925:G:O5'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:951:G:C5	34:BA:1231:G:C6	3.07	0.42
34:BA:958:A:O2'	34:BA:959:A:H5'	2.19	0.42
34:BA:980:C:C5	34:BA:981:U:N3	2.87	0.42
34:BA:1014:A:C2	34:BA:1219:U:H1'	2.54	0.42
34:BA:1073:U:C2	34:BA:1074:G:C8	3.08	0.42
34:BA:1111:A:H2'	34:BA:1112:C:C5	2.52	0.42
34:BA:1158:C:O2	34:BA:1158:C:H3'	2.18	0.42
34:BA:1236:A:C4'	34:BA:1304:G:H4'	2.28	0.42
34:BA:1298:C:C6	40:BK:114:ARG:HD3	2.52	0.42
34:BA:1329:A:C3'	46:BQ:24:GLY:HA3	2.08	0.42
34:BA:1377:A:H5''	34:BA:1378:C:C5	2.54	0.42
34:BA:1476:G:C2	34:BA:1477:C:C4	3.07	0.42
34:BA:1486:G:H3'	34:BA:1487:G:H5''	2.01	0.42
35:BF:118:LEU:HD22	35:BF:119:GLU:N	2.34	0.42
35:BF:167:PRO:HG2	35:BF:168:THR:N	2.24	0.42
36:BG:11:ARG:NE	36:BG:11:ARG:CA	2.82	0.42
36:BG:95:THR:HB	36:BG:97:LYS:HE2	2.01	0.42
36:BG:134:ILE:O	36:BG:135:LYS:C	2.61	0.42
36:BG:180:ALA:O	36:BG:182:ILE:HG13	2.20	0.42
36:BG:191:THR:HB	36:BG:193:TYR:CE2	2.54	0.42
37:BH:60:GLU:OE2	37:BH:202:LEU:CD1	2.67	0.42
37:BH:106:TYR:CD2	37:BH:114:ARG:HG2	2.44	0.42
38:BI:124:GLY:O	38:BI:126:ARG:N	2.52	0.42
39:BJ:57:GLN:N	39:BJ:57:GLN:CD	2.77	0.42
39:BJ:91:VAL:HG12	39:BJ:92:LYS:O	2.18	0.42
40:BK:49:ILE:CG2	40:BK:121:ALA:HB1	2.33	0.42
41:BL:35:ILE:HD13	41:BL:35:ILE:N	2.34	0.42
41:BL:40:ALA:HB2	41:BL:45:ILE:CG2	2.49	0.42
42:BM:19:LEU:CD2	42:BM:59:PHE:HD2	2.26	0.42
42:BM:19:LEU:HD22	42:BM:20:ARG:N	2.32	0.42
43:BN:49:VAL:CG1	47:BR:41:ARG:HB2	2.49	0.42
45:BP:119:LYS:HE3	45:BP:119:LYS:HB2	1.67	0.42
46:BQ:36:LYS:C	46:BQ:38:GLY:N	2.76	0.42
46:BQ:36:LYS:HE3	46:BQ:59:TYR:CG	2.53	0.42
47:BR:39:LEU:HB2	47:BR:44:LEU:HB2	2.01	0.42
48:BS:12:ILE:HG12	48:BS:27:VAL:HG13	2.01	0.42
48:BS:62:GLN:CA	48:BS:65:ARG:NH1	2.81	0.42
49:BT:55:ARG:HH21	49:BT:58:TYR:CB	2.32	0.42
50:BU:58:GLU:OE1	50:BU:75:ARG:N	2.52	0.42
50:BU:65:ILE:O	50:BU:66:SER:HB3	2.18	0.42
50:BU:75:ARG:NH1	50:BU:76:LEU:C	2.77	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:12:ALA:O	53:BX:15:ARG:N	2.51	0.42
55:CA:27:GLN:HG3	55:CA:28:GLN:CG	2.49	0.42
55:CA:130:VAL:CG2	55:CA:166:SER:HA	2.50	0.42
55:CA:158:LEU:N	55:CA:159:ASP:CB	2.82	0.42
55:CA:238:THR:OG1	55:CA:291:THR:HA	2.19	0.42
55:CA:395:ARG:CA	55:CA:474:ASP:CB	2.64	0.42
55:CA:495:LYS:N	55:CA:517:GLU:HA	2.35	0.42
1:AA:7:G:O2'	1:AA:8:A:C5'	2.64	0.42
1:AA:13:A:C2	1:AA:526:A:N7	2.88	0.42
1:AA:52:A:C5	1:AA:118:A:C2	3.08	0.42
1:AA:77:C:H6	1:AA:77:C:OP2	2.01	0.42
1:AA:126:A:C5'	30:Ad:18:PHE:HD2	2.32	0.42
1:AA:126:A:H5''	30:Ad:18:PHE:CE2	2.54	0.42
1:AA:174:C:H6	1:AA:174:C:H5''	1.84	0.42
1:AA:213:A:H2'	1:AA:213:A:N3	2.33	0.42
1:AA:219:G:H2'	1:AA:220:G:H5'	1.99	0.42
1:AA:241:A:H8	1:AA:243:U:C2	2.37	0.42
1:AA:242:G:H2'	1:AA:254:G:H1	1.85	0.42
1:AA:245:G:C2	1:AA:246:C:C5	3.08	0.42
1:AA:250:G:O2'	1:AA:251:A:O5'	2.36	0.42
1:AA:262:A:O2'	1:AA:263:C:C5'	2.66	0.42
1:AA:281:G:N2	1:AA:283:A:H4'	2.34	0.42
1:AA:284:U:OP2	1:AA:284:U:O4'	2.37	0.42
1:AA:360:G:C8	1:AA:361:G:C8	3.07	0.42
1:AA:443:A:C1'	1:AA:1201:C:O4'	2.68	0.42
1:AA:527:C:C5	1:AA:2779:U:H3'	2.54	0.42
1:AA:586:A:C2	1:AA:809:G:C2	3.07	0.42
1:AA:627:A:H5''	13:AM:75:ILE:CG2	2.50	0.42
1:AA:633:A:H5''	1:AA:634:C:OP2	2.20	0.42
1:AA:696:G:C2	1:AA:697:C:C5	3.08	0.42
1:AA:705:A:C6	1:AA:727:A:H1'	2.54	0.42
1:AA:707:G:C6	1:AA:708:C:C4	3.08	0.42
1:AA:757:U:H2'	1:AA:758:C:O5'	2.20	0.42
1:AA:820:A:C8	1:AA:973:A:N6	2.87	0.42
1:AA:826:U:H3'	1:AA:828:U:C4	2.54	0.42
1:AA:834:C:C2	1:AA:835:A:C8	3.07	0.42
1:AA:851:U:C1'	26:AZ:46:ASN:HB2	2.50	0.42
1:AA:866:A:H2'	1:AA:867:C:O5'	2.20	0.42
1:AA:886:C:H6	1:AA:886:C:H3'	1.85	0.42
1:AA:933:A:H2'	1:AA:934:G:O5'	2.19	0.42
1:AA:956:G:H2'	1:AA:957:A:C8	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:958:U:O2'	1:AA:959:A:O5'	2.33	0.42
1:AA:1052:C:H5'	1:AA:1052:C:H6	1.84	0.42
1:AA:1107:G:C8	1:AA:1107:G:O5'	2.71	0.42
1:AA:1120:G:O2'	1:AA:1121:C:H5'	2.19	0.42
1:AA:1160:G:H8	1:AA:1160:G:OP2	2.02	0.42
1:AA:1164:G:C4	1:AA:1165:U:C6	3.07	0.42
1:AA:1313:U:C2'	1:AA:1314:C:H5'	2.49	0.42
1:AA:1326:U:C2'	1:AA:1326:U:O2	2.67	0.42
1:AA:1351:C:O2'	1:AA:1571:A:N9	2.52	0.42
1:AA:1392:A:C5	1:AA:1393:A:N6	2.87	0.42
1:AA:1422:G:C2	1:AA:1423:G:C4	3.07	0.42
1:AA:1423:G:C2	1:AA:1424:G:C8	3.08	0.42
1:AA:1455:G:C6	1:AA:1456:G:C8	3.07	0.42
1:AA:1545:A:H3'	1:AA:1545(A):A:C8	2.54	0.42
1:AA:1576:U:H2'	1:AA:1577:C:C5	2.54	0.42
1:AA:1635:G:C8	1:AA:1635:G:C5'	3.02	0.42
1:AA:1651:G:C2'	1:AA:1652:A:C8	2.94	0.42
1:AA:1657:C:C2	1:AA:1658:C:C5	3.08	0.42
1:AA:1707:G:C4	1:AA:1708:C:C6	3.07	0.42
1:AA:1728:G:H1	1:AA:1733:G:N2	2.16	0.42
1:AA:1731:G:N2	1:AA:1732:A:OP2	2.50	0.42
1:AA:1777:U:C2'	1:AA:1778:U:C5'	2.97	0.42
1:AA:1816:G:P	4:AD:43:ARG:NH2	2.93	0.42
1:AA:1855:G:C5	1:AA:1856:G:N7	2.88	0.42
1:AA:1902:C:C4	1:AA:1903:G:C4	3.07	0.42
1:AA:1921:G:C6	56:AA:3001:NMY:N6	2.88	0.42
1:AA:1967:C:O2	1:AA:1968:G:O4'	2.38	0.42
1:AA:2053:G:H4'	5:AE:145:LYS:NZ	2.34	0.42
1:AA:2074:U:O2	1:AA:2075:U:C6	2.72	0.42
1:AA:2208:U:HO2'	1:AA:2217:G:N2	2.15	0.42
1:AA:2216:G:C2'	1:AA:2217:G:H5'	2.49	0.42
1:AA:2284:C:H5''	29:Ac:9:LEU:HG	1.99	0.42
1:AA:2292:C:H2'	1:AA:2293:C:H6	1.84	0.42
1:AA:2345:G:N3	1:AA:2381:C:H2'	2.34	0.42
1:AA:2352:A:O2'	1:AA:2353:G:H5'	2.19	0.42
1:AA:2391:G:O6	1:AA:2425:A:H5''	2.19	0.42
1:AA:2432:A:N6	27:Aa:32:TYR:CD2	2.87	0.42
1:AA:2557:G:C4	1:AA:2558:C:C5	3.08	0.42
1:AA:2563:U:H2'	1:AA:2565:A:OP2	2.19	0.42
1:AA:2603:G:OP2	24:AX:1:MET:CB	2.61	0.42
1:AA:2612:C:HO2'	28:Ab:4:HIS:HB3	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2660:A:C4	55:CA:456:MET:O	2.73	0.42
1:AA:2718:G:H2'	1:AA:2719:G:O5'	2.19	0.42
1:AA:2758:A:C5	1:AA:2759:G:N7	2.87	0.42
1:AA:2760:C:O2'	1:AA:2761:G:H5'	2.19	0.42
1:AA:2784:C:H2'	1:AA:2785:C:C6	2.51	0.42
1:AA:2832:U:O2	1:AA:2832:U:H2'	2.18	0.42
1:AA:2845:G:C4	1:AA:2846:G:C8	3.08	0.42
1:AA:2853:C:C2	1:AA:2854:G:C8	3.08	0.42
1:AA:2879:C:O2	1:AA:2879:C:C2'	2.67	0.42
2:AB:38:C:C6	2:AB:38:C:O5'	2.72	0.42
3:AC:102:LYS:HE3	3:AC:107:TRP:HB3	2.01	0.42
3:AC:163:PHE:O	3:AC:164:ARG:HB2	2.18	0.42
4:AD:49:ILE:HD12	4:AD:49:ILE:H	1.84	0.42
4:AD:77:ALA:CB	4:AD:95:LEU:HD11	2.46	0.42
4:AD:90:ALA:CB	4:AD:159:ALA:HA	2.49	0.42
4:AD:131:LEU:C	4:AD:190:TYR:CD2	2.98	0.42
4:AD:172:TYR:HA	4:AD:186:HIS:HA	2.00	0.42
4:AD:244:ARG:CA	4:AD:252:TRP:CD1	3.02	0.42
5:AE:115:GLY:C	5:AE:117:MET:H	2.25	0.42
5:AE:200:GLU:CD	5:AE:200:GLU:N	2.76	0.42
7:AG:33:ARG:HH11	7:AG:33:ARG:CB	2.32	0.42
7:AG:35:GLU:OE1	7:AG:160:VAL:CG1	2.68	0.42
7:AG:57:ALA:CA	7:AG:68:PRO:CD	2.83	0.42
7:AG:115:ARG:C	7:AG:117:PHE:N	2.78	0.42
7:AG:118:ARG:O	7:AG:180:PHE:CZ	2.72	0.42
8:AH:6:ARG:C	8:AH:69:ARG:NE	2.70	0.42
8:AH:10:PRO:C	8:AH:12:PRO:HD2	2.45	0.42
10:AJ:94:GLU:O	10:AJ:95:LYS:HB2	2.19	0.42
11:AK:91:LEU:C	11:AK:93:THR:N	2.76	0.42
11:AK:95:PRO:HG2	11:AK:96:GLU:N	2.33	0.42
12:AL:26:LYS:CG	12:AL:27:GLY:H	2.30	0.42
12:AL:63:VAL:HB	12:AL:78:ARG:CD	2.48	0.42
13:AM:56:SER:OG	31:Ae:27:THR:HG21	2.18	0.42
13:AM:96:THR:C	13:AM:102:ARG:CD	2.92	0.42
13:AM:99:LEU:C	13:AM:101:VAL:H	2.27	0.42
14:AN:36:ALA:O	14:AN:37:LEU:CD2	2.67	0.42
14:AN:43:THR:HG23	14:AN:46:GLN:NE2	2.34	0.42
14:AN:75:THR:HA	14:AN:91:GLU:HG2	2.01	0.42
14:AN:88:GLY:O	14:AN:89:ASN:HB2	2.20	0.42
14:AN:89:ASN:HB3	14:AN:91:GLU:OE1	2.19	0.42
14:AN:125:LEU:HB3	14:AN:126:PRO:CD	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:53:HIS:CE1	15:AO:56:LYS:HE2	2.54	0.42
15:AO:96:ARG:HG2	15:AO:98:LEU:HD12	1.98	0.42
15:AO:108:GLY:O	15:AO:110:PRO:CD	2.65	0.42
16:AP:26:LEU:HD11	16:AP:37:ALA:CB	2.44	0.42
17:AQ:8:LYS:CA	17:AQ:11:GLU:OE1	2.67	0.42
17:AQ:55:ASN:ND2	17:AQ:57:PHE:CE1	2.78	0.42
17:AQ:72:VAL:O	17:AQ:74:ARG:HD2	2.20	0.42
18:AR:17:ILE:HG21	18:AR:36:ARG:HD3	2.02	0.42
19:AS:20:LEU:HD13	19:AS:95:LEU:HD13	2.01	0.42
19:AS:76:LYS:HA	19:AS:86:GLY:HA3	2.01	0.42
19:AS:89:GLN:HG2	19:AS:91:TYR:HD2	1.84	0.42
22:AV:1:MET:HE2	22:AV:67:LEU:CD2	2.47	0.42
22:AV:19:LYS:HZ2	22:AV:39:VAL:CG1	2.32	0.42
22:AV:35:TYR:O	22:AV:64:GLU:O	2.36	0.42
23:AW:4:ARG:HD3	23:AW:38:TYR:CA	2.49	0.42
23:AW:41:LEU:CA	23:AW:44:PHE:HB2	2.48	0.42
23:AW:116:VAL:HG23	23:AW:144:LEU:O	2.20	0.42
23:AW:162:GLU:OE1	23:AW:162:GLU:HA	2.19	0.42
24:AX:44:ARG:HG2	24:AX:45:PHE:CE1	2.54	0.42
24:AX:45:PHE:C	24:AX:46:LYS:HD3	2.43	0.42
25:AY:15:GLU:C	25:AY:17:GLU:N	2.75	0.42
26:AZ:17:LYS:C	26:AZ:19:GLN:N	2.78	0.42
28:Ab:4:HIS:ND1	28:Ab:5:PRO:HD3	2.35	0.42
29:Ac:29:ASN:HB2	29:Ac:30:THR:H	1.54	0.42
30:Ad:8:ASN:OD1	30:Ad:10:ARG:HB2	2.19	0.42
30:Ad:35:ARG:O	30:Ad:36:GLN:NE2	2.52	0.42
30:Ad:42:LEU:O	30:Ad:43:THR:C	2.61	0.42
32:Af:10:ILE:N	32:Af:10:ILE:CD1	2.65	0.42
34:BA:22:G:N9	34:BA:914:A:N6	2.66	0.42
34:BA:50:A:C2	34:BA:360:A:H2'	2.54	0.42
34:BA:185:A:C4	34:BA:186:C:C5	3.06	0.42
34:BA:186(A):C:H4'	53:BX:85:MET:HG3	2.00	0.42
34:BA:195:A:P	53:BX:68:LYS:HZ1	2.43	0.42
34:BA:343:U:O2'	34:BA:344:A:O5'	2.26	0.42
34:BA:344:A:H5''	34:BA:345:C:H5	1.78	0.42
34:BA:363:A:H5''	45:BP:105:TYR:OH	2.19	0.42
34:BA:453:A:C5	34:BA:454:C:N4	2.87	0.42
34:BA:455:C:C6	34:BA:455:C:O5'	2.73	0.42
34:BA:498:A:H61	34:BA:547:A:C5'	2.32	0.42
34:BA:666:G:H4'	34:BA:731:G:N2	2.33	0.42
34:BA:686:U:O4	34:BA:703:G:O2'	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:702:A:O2'	34:BA:703:G:P	2.77	0.42
34:BA:830:G:N1	34:BA:857:C:C4	2.87	0.42
34:BA:880:C:H2'	34:BA:881:G:O5'	2.19	0.42
34:BA:906:G:H5'	34:BA:907:A:OP2	2.20	0.42
34:BA:979:C:O2	47:BR:19:ARG:NE	2.52	0.42
34:BA:979:C:C5	34:BA:980:C:C5	3.08	0.42
34:BA:1084:G:O2'	34:BA:1085:U:OP1	2.32	0.42
34:BA:1104:G:H4'	35:BF:111:ARG:HH21	1.83	0.42
34:BA:1109:C:C2'	34:BA:1110:A:C5'	2.97	0.42
34:BA:1183:A:C2'	34:BA:1184:G:OP1	2.68	0.42
34:BA:1187:G:C2'	34:BA:1188:A:H8	2.31	0.42
34:BA:1231:G:OP2	42:BM:127:LYS:HE2	2.19	0.42
34:BA:1291:G:C2	34:BA:1292:U:C2	3.07	0.42
34:BA:1318:A:C8	52:BW:37:ARG:HB3	2.54	0.42
34:BA:1374:A:C4	34:BA:1375:A:C8	3.07	0.42
35:BF:21:ARG:C	35:BF:23:ARG:N	2.76	0.42
35:BF:199:TYR:C	35:BF:201:ILE:HD12	2.44	0.42
36:BG:16:ARG:C	36:BG:17:ASP:OD1	2.62	0.42
36:BG:28:GLN:CA	36:BG:30:ARG:CZ	2.95	0.42
36:BG:40:ARG:HE	47:BR:52:GLN:NE2	2.17	0.42
36:BG:59:ARG:NE	36:BG:64:VAL:CA	2.64	0.42
36:BG:147:LYS:HE3	36:BG:147:LYS:HA	2.02	0.42
36:BG:175:LEU:O	36:BG:176:HIS:O	2.37	0.42
37:BH:13:ARG:HE	37:BH:40:PRO:CB	2.24	0.42
37:BH:62:GLN:O	37:BH:63:LYS:C	2.62	0.42
37:BH:100:ARG:O	37:BH:101:LEU:C	2.61	0.42
37:BH:151:LYS:CD	37:BH:151:LYS:N	2.78	0.42
38:BI:109:ILE:HD11	38:BI:136:MET:SD	2.59	0.42
39:BJ:21:LEU:HD12	39:BJ:24:GLU:OE1	2.19	0.42
39:BJ:50:TYR:CE1	39:BJ:52:ILE:HD11	2.55	0.42
39:BJ:90:VAL:HG13	39:BJ:90:VAL:O	2.18	0.42
40:BK:121:ALA:HB1	40:BK:125:MET:HE3	2.00	0.42
41:BL:10:LEU:C	41:BL:14:ARG:HH12	2.20	0.42
41:BL:19:VAL:O	41:BL:19:VAL:HG12	2.18	0.42
42:BM:5:TYR:OH	42:BM:16:ARG:CG	2.67	0.42
43:BN:30:SER:CA	43:BN:80:LYS:HG3	2.48	0.42
43:BN:79:ARG:HH11	43:BN:79:ARG:HA	1.84	0.42
44:BO:62:GLN:CD	44:BO:63:LEU:N	2.77	0.42
46:BQ:58:GLU:C	46:BQ:60:VAL:N	2.76	0.42
48:BS:54:ARG:CA	48:BS:57:LEU:HD13	2.49	0.42
49:BT:66:PRO:O	49:BT:67:THR:C	2.63	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:10:VAL:HG12	50:BU:54:GLY:N	2.26	0.42
51:BV:43:PHE:HD2	51:BV:56:THR:HG22	1.84	0.42
52:BW:48:THR:HG23	52:BW:60:VAL:O	2.20	0.42
55:CA:10:ILE:O	55:CA:11:ILE:C	2.63	0.42
55:CA:396:LYS:O	55:CA:475:VAL:N	2.49	0.42
1:AA:1:G:H2'	1:AA:2:G:H8	1.84	0.42
1:AA:107:C:O2'	1:AA:108:U:O5'	2.37	0.42
1:AA:120:U:O2'	1:AA:149:A:O4'	2.37	0.42
1:AA:154:G:C2	1:AA:155:C:C4	3.07	0.42
1:AA:217:G:C2'	1:AA:218:A:O5'	2.65	0.42
1:AA:261:G:HO2'	1:AA:609:A:H4'	1.84	0.42
1:AA:300:A:HO2'	1:AA:318:C:H1'	1.83	0.42
1:AA:418:G:C2	1:AA:419:C:C6	3.08	0.42
1:AA:483:A:C2	1:AA:484:C:C1'	3.03	0.42
1:AA:515:A:N7	1:AA:516:C:C5	2.87	0.42
1:AA:533:G:C5	1:AA:534:U:C4	3.08	0.42
1:AA:548:A:N6	1:AA:549:G:N3	2.66	0.42
1:AA:603:A:H62	13:AM:104:GLY:HA2	1.82	0.42
1:AA:647:G:C2	1:AA:648:G:C5	3.07	0.42
1:AA:716:A:C4	48:BS:44:LYS:HG3	2.55	0.42
1:AA:719:C:O2'	1:AA:720:C:H5'	2.19	0.42
1:AA:724:U:O2	1:AA:725:G:O4'	2.38	0.42
1:AA:763:G:H1'	1:AA:765:G:O4'	2.20	0.42
1:AA:774:A:C1'	1:AA:775:G:C8	2.95	0.42
1:AA:825:C:O2'	1:AA:826:U:C5'	2.64	0.42
1:AA:828:U:C5	1:AA:829:A:N7	2.87	0.42
1:AA:838:C:C2	1:AA:941:A:N6	2.87	0.42
1:AA:930:U:O2	1:AA:932:G:N2	2.52	0.42
1:AA:962:G:C2	1:AA:963:U:N3	2.87	0.42
1:AA:984:A:P	1:AA:985:C:H41	2.41	0.42
1:AA:985:C:C6	1:AA:985:C:O5'	2.72	0.42
1:AA:986:C:C6	1:AA:986:C:C3'	3.02	0.42
1:AA:1014:U:H2'	1:AA:1015:G:C5'	2.49	0.42
1:AA:1034:G:C6	1:AA:1122:G:N7	2.86	0.42
1:AA:1065:U:H6	1:AA:1065:U:O5'	2.02	0.42
1:AA:1081:U:O4	1:AA:1086:A:N1	2.51	0.42
1:AA:1083:U:O2	1:AA:1085:A:C8	2.70	0.42
1:AA:1213:A:N1	1:AA:1237:A:H1'	2.34	0.42
1:AA:1363:C:C1'	1:AA:1810:A:H1'	2.49	0.42
1:AA:1388:G:C4	1:AA:1400:G:N2	2.87	0.42
1:AA:1426:G:C3'	1:AA:1427:A:H5''	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1469:A:C8	1:AA:1469:A:C3'	3.02	0.42
1:AA:1516:U:C6	1:AA:1517:G:N7	2.88	0.42
1:AA:1608:A:H2'	1:AA:1611:C:H41	1.84	0.42
1:AA:1655:A:O3'	5:AE:114:ALA:HA	2.18	0.42
1:AA:1668:A:H2	1:AA:1994:C:C6	2.38	0.42
1:AA:1672:C:H41	1:AA:1673:U:H5	1.66	0.42
1:AA:1673:U:HO2'	1:AA:1674:G:P	2.42	0.42
1:AA:1806:C:H6	1:AA:1806:C:O5'	2.03	0.42
1:AA:1806:C:H2'	1:AA:1807:G:O5'	2.19	0.42
1:AA:1827:C:C2	1:AA:1828:G:H1'	2.53	0.42
1:AA:1829:A:H5'	1:AA:1830:C:OP2	2.20	0.42
1:AA:1908:C:H2'	1:AA:1909:C:H6	1.73	0.42
1:AA:2015:A:C8	1:AA:2016:U:C5	3.07	0.42
1:AA:2077:A:C5	1:AA:2435:A:N7	2.88	0.42
1:AA:2136:C:C2	1:AA:2137:C:C5	3.07	0.42
1:AA:2154:G:H2'	1:AA:2155:G:O4'	2.19	0.42
1:AA:2175:C:C2	1:AA:2176:A:C8	3.08	0.42
1:AA:2212:A:H61	1:AA:2215:G:H1'	1.84	0.42
1:AA:2213:U:C4'	1:AA:2215:G:N7	2.83	0.42
1:AA:2304:G:H4'	7:AG:132:ASN:HD21	1.84	0.42
1:AA:2345:G:H21	1:AA:2381:C:H2'	1.84	0.42
1:AA:2459:A:OP2	1:AA:2460:U:C4	2.71	0.42
1:AA:2469:A:C8	1:AA:2469:A:C5'	3.00	0.42
1:AA:2482:G:H2'	1:AA:2483:C:C5'	2.48	0.42
1:AA:2495:G:H2'	1:AA:2496:C:O4'	2.19	0.42
1:AA:2518:A:H5''	1:AA:2519:U:OP2	2.19	0.42
1:AA:2521:C:O2	1:AA:2522:U:C1'	2.67	0.42
1:AA:2530:A:H3'	1:AA:2531:A:C5'	2.50	0.42
1:AA:2533:A:C2'	1:AA:2534:A:H8	2.28	0.42
1:AA:2542:A:O4'	1:AA:2542:A:OP1	2.38	0.42
1:AA:2553:G:H8	1:AA:2582:G:H2'	1.84	0.42
1:AA:2586:C:C6	1:AA:2586:C:C3'	3.02	0.42
1:AA:2721:A:H3'	1:AA:2722:G:C8	2.55	0.42
1:AA:2782:G:H2'	1:AA:2783:G:C8	2.53	0.42
1:AA:2817:G:C2	1:AA:2830:G:C2	3.07	0.42
1:AA:2826:A:O2'	1:AA:2827:C:H5'	2.19	0.42
1:AA:2857:G:C8	1:AA:2857:G:C3'	3.03	0.42
2:AB:18:G:C2	2:AB:19:G:C8	3.07	0.42
2:AB:112:G:N2	2:AB:113:C:H1'	2.34	0.42
3:AC:13:LYS:HB2	3:AC:32:LEU:HD23	2.01	0.42
4:AD:9:TYR:HH	4:AD:91:ARG:CZ	2.31	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:23:GLU:CB	4:AD:205:VAL:H	2.32	0.42
4:AD:78:LYS:CD	4:AD:114:GLY:O	2.67	0.42
4:AD:123:ALA:HB1	4:AD:129:ASN:HB3	2.02	0.42
4:AD:161:THR:N	4:AD:196:VAL:CG2	2.83	0.42
4:AD:181:GLU:C	4:AD:182:LEU:HG	2.44	0.42
5:AE:36:ARG:CB	5:AE:41:LYS:HB2	2.44	0.42
5:AE:66:HIS:ND1	5:AE:67:PHE:CA	2.81	0.42
5:AE:156:MET:O	5:AE:157:ALA:O	2.38	0.42
6:AF:156:LEU:HA	6:AF:193:VAL:O	2.20	0.42
7:AG:50:ALA:HA	7:AG:70:VAL:HG13	2.01	0.42
8:AH:6:ARG:H	8:AH:7:LEU:HD23	1.84	0.42
10:AJ:112:MET:HE2	10:AJ:121:GLU:CA	2.48	0.42
11:AK:7:LYS:CD	11:AK:39:ARG:NH2	2.82	0.42
12:AL:18:LYS:HZ3	12:AL:44:LYS:HD3	1.81	0.42
12:AL:112:MET:O	12:AL:115:VAL:CA	2.67	0.42
13:AM:55:ARG:CB	13:AM:55:ARG:NH1	2.68	0.42
13:AM:65:ARG:HH22	13:AM:68:GLN:NE2	2.13	0.42
13:AM:78:PRO:HD2	13:AM:115:LEU:C	2.43	0.42
13:AM:89:ALA:O	13:AM:124:LYS:O	2.38	0.42
13:AM:98:GLU:O	13:AM:99:LEU:C	2.61	0.42
14:AN:76:LYS:NZ	14:AN:78:PRO:O	2.51	0.42
14:AN:79:LEU:C	14:AN:80:GLU:CG	2.93	0.42
16:AP:42:ASP:C	16:AP:42:ASP:OD1	2.62	0.42
16:AP:104:GLY:O	16:AP:105:ALA:C	2.63	0.42
17:AQ:26:ASP:O	17:AQ:52:ILE:HG22	2.17	0.42
18:AR:55:ARG:HA	18:AR:58:ARG:HB3	2.01	0.42
18:AR:94:ASN:O	18:AR:97:ASP:HB2	2.19	0.42
18:AR:110:VAL:HG12	18:AR:114:LYS:NZ	2.35	0.42
18:AR:111:GLU:C	18:AR:114:LYS:HE3	2.45	0.42
19:AS:15:GLU:CB	19:AS:16:PRO:CD	2.97	0.42
19:AS:69:LYS:HE2	19:AS:70:ILE:CG1	2.48	0.42
21:AU:18:TYR:HD1	21:AU:21:PHE:HE2	1.66	0.42
21:AU:39:ILE:O	21:AU:43:VAL:CG2	2.66	0.42
21:AU:47:PHE:O	21:AU:49:VAL:HG13	2.19	0.42
22:AV:97:ARG:O	22:AV:98:VAL:CG2	2.66	0.42
22:AV:104:GLY:O	22:AV:105:ALA:C	2.62	0.42
23:AW:46:LYS:HZ2	23:AW:46:LYS:HG3	1.62	0.42
23:AW:114:GLY:N	23:AW:145:GLU:OE2	2.50	0.42
23:AW:153:SER:OG	23:AW:154:ASP:N	2.52	0.42
28:Ab:15:ARG:O	28:Ab:18:ALA:HB3	2.20	0.42
28:Ab:44:THR:CA	28:Ab:52:TYR:OH	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Ad:18:PHE:HB3	30:Ad:22:MET:HE2	2.02	0.42
31:Ae:38:GLY:C	31:Ae:39:LYS:HE2	2.45	0.42
31:Ae:42:ARG:C	31:Ae:43:GLN:NE2	2.78	0.42
32:Af:13:LYS:NZ	32:Af:13:LYS:CB	2.82	0.42
32:Af:16:VAL:O	32:Af:16:VAL:CG1	2.59	0.42
34:BA:15:G:N3	34:BA:16:A:C8	2.88	0.42
34:BA:20:U:O4'	34:BA:572:A:C2	2.72	0.42
34:BA:42:G:C6	34:BA:43:C:C4	3.08	0.42
34:BA:129(A):G:C4'	34:BA:130:A:O5'	2.63	0.42
34:BA:131:C:C5	34:BA:232:G:N2	2.88	0.42
34:BA:255:G:OP1	50:BU:69:LYS:CE	2.67	0.42
34:BA:274:A:O3'	34:BA:275:G:O4'	2.38	0.42
34:BA:291:C:C3'	34:BA:305:G:N2	2.64	0.42
34:BA:307:C:C6	34:BA:307:C:O5'	2.72	0.42
34:BA:552:U:HO2'	34:BA:553:A:H5'	1.78	0.42
34:BA:642:A:C5	41:BL:115:SER:HA	2.54	0.42
34:BA:657:G:H4'	48:BS:28:GLN:HE22	1.84	0.42
34:BA:689:C:O3'	34:BA:705:U:O2'	2.32	0.42
34:BA:738:C:N3	34:BA:739:C:C5	2.87	0.42
34:BA:767:A:C2'	34:BA:768:A:H5'	2.49	0.42
34:BA:854:G:OP2	34:BA:871:U:O2	2.38	0.42
34:BA:872:A:N1	34:BA:874:G:C5	2.87	0.42
34:BA:894:G:C5	34:BA:895:G:C8	3.07	0.42
34:BA:901:A:H2'	34:BA:902:G:O4'	2.19	0.42
34:BA:926:G:C6	34:BA:1505:G:N1	2.87	0.42
34:BA:975:A:O2'	34:BA:976:G:P	2.76	0.42
34:BA:975:A:H4'	34:BA:976:G:H5'	2.00	0.42
34:BA:996:A:N1	34:BA:997:U:C4	2.88	0.42
34:BA:1003:G:OP2	34:BA:1004:A:C2	2.73	0.42
34:BA:1030:C:H2'	34:BA:1031:G:C8	2.55	0.42
34:BA:1109:C:H2'	34:BA:1110:A:C5'	2.49	0.42
34:BA:1285:A:O2'	34:BA:1286:A:P	2.77	0.42
34:BA:1324:A:C2	34:BA:1325:C:C6	3.07	0.42
34:BA:1331:G:OP1	34:BA:1331:G:C4'	2.68	0.42
34:BA:1352:C:N3	34:BA:1371:G:C6	2.87	0.42
34:BA:1480:G:C2'	34:BA:1481:U:H5'	2.50	0.42
34:BA:1500:A:OP2	34:BA:1504:G:O2'	2.37	0.42
34:BA:1537:U:C4	34:BA:1538:C:C5	3.07	0.42
35:BF:15:VAL:C	35:BF:16:HIS:ND1	2.75	0.42
35:BF:25:ASN:HD21	35:BF:27:LYS:HB2	1.85	0.42
35:BF:60:ASP:O	35:BF:63:MET:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:221:LEU:C	35:BF:221:LEU:HD22	2.44	0.42
35:BF:223:ILE:HA	35:BF:226:ARG:NE	2.34	0.42
35:BF:228:GLY:O	35:BF:230:VAL:HG23	2.19	0.42
36:BG:39:ILE:O	36:BG:41:GLY:N	2.52	0.42
36:BG:113:ALA:O	36:BG:114:PRO:C	2.63	0.42
37:BH:125:HIS:HB3	37:BH:152:SER:CB	2.37	0.42
37:BH:129:ASN:CG	37:BH:144:ASP:CG	2.87	0.42
37:BH:140:VAL:O	37:BH:141:ARG:C	2.62	0.42
38:BI:53:LEU:O	38:BI:57:LYS:CB	2.68	0.42
39:BJ:9:VAL:HG22	39:BJ:60:PHE:CD2	2.53	0.42
40:BK:88:PRO:HD2	40:BK:152:ALA:HA	2.01	0.42
40:BK:127:ALA:C	40:BK:129:GLU:N	2.77	0.42
41:BL:12:ARG:HB2	41:BL:26:VAL:HG21	2.01	0.42
41:BL:100:ILE:O	41:BL:101:PRO:C	2.62	0.42
41:BL:101:PRO:O	41:BL:102:ARG:CG	2.67	0.42
42:BM:63:ILE:N	42:BM:63:ILE:CD1	2.64	0.42
42:BM:83:ARG:HA	42:BM:86:VAL:HG23	2.00	0.42
43:BN:24:VAL:HG13	43:BN:34:VAL:HB	2.01	0.42
43:BN:43:ARG:O	43:BN:66:ARG:CB	2.47	0.42
44:BO:41:THR:HB	44:BO:71:LYS:CD	2.50	0.42
45:BP:14:GLY:O	45:BP:15:ARG:HG3	2.19	0.42
45:BP:33:ARG:C	45:BP:84:LEU:HD12	2.44	0.42
53:BX:12:ALA:O	53:BX:13:LEU:C	2.62	0.42
53:BX:77:ALA:C	53:BX:80:ARG:HB2	2.43	0.42
55:CA:13:HIS:HD2	55:CA:106:MET:CB	2.07	0.42
55:CA:21:LEU:CG	55:CA:98:VAL:HG21	2.49	0.42
55:CA:55:THR:CA	55:CA:56:ILE:HD12	2.42	0.42
55:CA:120:GLY:C	55:CA:121:LEU:HG	2.44	0.42
55:CA:177:GLU:HA	55:CA:178:ASP:HA	1.57	0.42
55:CA:239:ILE:HG13	55:CA:277:THR:HG21	2.02	0.42
55:CA:274:VAL:CG2	55:CA:275:ALA:N	2.73	0.42
55:CA:382:VAL:HA	55:CA:383:SER:O	2.19	0.42
55:CA:401:GLU:HB3	55:CA:467:SER:CA	2.50	0.42
55:CA:403:VAL:O	55:CA:465:LEU:CG	2.68	0.42
55:CA:405:LEU:HB3	55:CA:455:PHE:HZ	1.80	0.42
55:CA:488:LEU:HD11	55:CA:526:ILE:N	2.35	0.42
55:CA:504:LEU:HD21	55:CA:535:VAL:CG2	2.49	0.42
55:CA:538:LEU:H	55:CA:539:THR:CA	2.33	0.42
1:AA:67:U:C6	1:AA:67:U:C4'	3.01	0.42
1:AA:84:A:O3'	1:AA:85:G:O4'	2.38	0.42
1:AA:197:A:C4	1:AA:198:C:C6	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:270(V):G:H2'	1:AA:270(W):G:H8	1.85	0.42
1:AA:301:G:C6	1:AA:317:G:C6	3.08	0.42
1:AA:307:G:C4	1:AA:309:G:OP2	2.72	0.42
1:AA:451:C:H2'	1:AA:453:C:H5	1.84	0.42
1:AA:479:A:HO2'	1:AA:480:A:H8	1.61	0.42
1:AA:491:G:C2'	1:AA:492:A:C8	3.02	0.42
1:AA:534:U:H2'	1:AA:535:C:H5	1.82	0.42
1:AA:564:C:H1'	18:AR:37:GLU:OE2	2.17	0.42
1:AA:605:C:O2'	1:AA:606:U:H5'	2.19	0.42
1:AA:618:G:C8	1:AA:618(A):C:H5	2.36	0.42
1:AA:623:G:N7	1:AA:624:C:C4	2.88	0.42
1:AA:659:C:C2	1:AA:660:G:C8	3.07	0.42
1:AA:710:G:H2'	1:AA:711:G:H8	1.85	0.42
1:AA:723:G:C2	1:AA:724:U:C1'	3.02	0.42
1:AA:764:A:H3'	1:AA:765:G:C5'	2.49	0.42
1:AA:771:G:N3	1:AA:772:C:C5	2.88	0.42
1:AA:814:C:C4'	1:AA:1224:G:N2	2.79	0.42
1:AA:852:G:C6	1:AA:853:G:C5	3.07	0.42
1:AA:854:G:N2	1:AA:855:G:C4	2.87	0.42
1:AA:969:U:H2'	1:AA:970:C:C5'	2.50	0.42
1:AA:974:G:H1'	1:AA:1186:G:C4	2.54	0.42
1:AA:1043:C:HO2'	1:AA:1045:A:P	2.41	0.42
1:AA:1069:A:H4'	1:AA:1070:A:H3'	2.01	0.42
1:AA:1069:A:N7	1:AA:1073:A:C8	2.87	0.42
1:AA:1103:A:C2'	1:AA:1104:C:OP1	2.67	0.42
1:AA:1150:C:H2'	1:AA:1151:G:O4'	2.20	0.42
1:AA:1161:C:O2'	19:AS:22:VAL:CG1	2.68	0.42
1:AA:1203:G:O6	1:AA:1240:U:C2'	2.62	0.42
1:AA:1242:A:H5''	1:AA:1243:G:OP2	2.19	0.42
1:AA:1298:C:C4	1:AA:1299:G:C6	3.08	0.42
1:AA:1414:G:C2	1:AA:1415:U:C2	3.07	0.42
1:AA:1482:U:H1'	1:AA:1512:G:H22	1.84	0.42
1:AA:1483:G:N2	1:AA:1507:A:O2'	2.53	0.42
1:AA:1521:G:H8	1:AA:1522:G:O4'	2.03	0.42
1:AA:1536:A:C5	1:AA:1537:C:C4	3.08	0.42
1:AA:1571:A:N3	1:AA:1571:A:C2'	2.83	0.42
1:AA:1648:C:O2	1:AA:1648:C:H2'	2.20	0.42
1:AA:1700:A:C2'	1:AA:1701:A:C5'	2.85	0.42
1:AA:1704:G:C6	1:AA:1705:G:C5	3.08	0.42
1:AA:1775:U:N3	4:AD:208:LYS:HD2	2.34	0.42
1:AA:1832:C:C5	1:AA:1833:U:C5	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1860:G:N3	1:AA:1860:G:H2'	2.33	0.42
1:AA:2056:G:N2	1:AA:2057:A:C4	2.88	0.42
1:AA:2094:G:N7	1:AA:2095:C:C4	2.88	0.42
1:AA:2186:G:C2	1:AA:2187:G:C6	3.08	0.42
1:AA:2309:A:N3	1:AA:2309:A:C3'	2.83	0.42
1:AA:2346:A:C2	1:AA:2383:G:C2	3.07	0.42
1:AA:2360:A:OP2	1:AA:2360:A:H8	1.99	0.42
1:AA:2435:A:C2	1:AA:2436:G:C4	3.07	0.42
1:AA:2510:C:N4	1:AA:2575:C:N3	2.68	0.42
1:AA:2530:A:C3'	1:AA:2531:A:C5'	2.90	0.42
1:AA:2563:U:O2	1:AA:2565:A:O5'	2.36	0.42
1:AA:2581:G:O6	1:AA:2610:C:H2'	2.17	0.42
1:AA:2638:G:O2'	1:AA:2639:A:H8	2.02	0.42
1:AA:2756:U:O2'	1:AA:2757:A:P	2.78	0.42
1:AA:2816:C:C2'	1:AA:2817:G:H5'	2.48	0.42
2:AB:84:C:O2	2:AB:85:G:C8	2.72	0.42
2:AB:103:U:H4'	23:AW:97:GLU:OE2	2.20	0.42
3:AC:19:ILE:O	3:AC:223:ARG:O	2.36	0.42
3:AC:64:LEU:CG	3:AC:161:ILE:HG12	2.50	0.42
3:AC:89:ALA:CB	3:AC:154:ARG:HH11	2.31	0.42
3:AC:97:GLU:CG	3:AC:122:ALA:CB	2.97	0.42
4:AD:29:PRO:HG3	4:AD:82:ILE:HG22	2.01	0.42
4:AD:63:ARG:CA	4:AD:63:ARG:CZ	2.98	0.42
4:AD:63:ARG:HB3	4:AD:88:ARG:HH21	1.85	0.42
4:AD:176:ARG:NH2	4:AD:182:LEU:CD1	2.79	0.42
4:AD:177:LEU:HD23	4:AD:181:GLU:C	2.43	0.42
5:AE:23:VAL:HG11	5:AE:188:VAL:HG22	2.01	0.42
5:AE:38:THR:O	5:AE:42:ASP:N	2.53	0.42
5:AE:71:GLY:O	5:AE:72:VAL:CG1	2.67	0.42
5:AE:105:THR:HG22	5:AE:199:ARG:CZ	2.50	0.42
6:AF:7:TYR:OH	6:AF:23:ASP:O	2.34	0.42
6:AF:46:ARG:C	6:AF:46:ARG:CD	2.93	0.42
6:AF:78:ILE:HD13	6:AF:83:PHE:HZ	1.85	0.42
6:AF:154:VAL:HA	6:AF:191:ARG:O	2.19	0.42
7:AG:118:ARG:HG2	7:AG:119:GLY:H	1.76	0.42
7:AG:125:PHE:HB2	7:AG:131:TYR:C	2.43	0.42
8:AH:7:LEU:CB	8:AH:65:HIS:NE2	2.80	0.42
8:AH:91:GLY:C	8:AH:93:GLY:N	2.77	0.42
8:AH:96:ALA:HB3	8:AH:128:PRO:HB2	2.00	0.42
9:AI:118:THR:O	9:AI:120:LYS:N	2.49	0.42
9:AI:139:VAL:C	9:AI:141:VAL:H	2.28	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:74:ARG:O	11:AK:76:SER:N	2.52	0.42
12:AL:92:GLU:OE1	12:AL:114:ILE:HG13	2.19	0.42
13:AM:57:THR:HG22	13:AM:58:THR:N	2.34	0.42
13:AM:77:ARG:CZ	13:AM:79:ARG:HB3	2.50	0.42
13:AM:80:TYR:CZ	13:AM:100:LEU:HG	2.55	0.42
13:AM:80:TYR:OH	13:AM:100:LEU:HD21	2.19	0.42
13:AM:91:PHE:HE2	13:AM:96:THR:HG22	1.81	0.42
14:AN:8:LYS:HZ1	14:AN:72:LYS:C	2.28	0.42
14:AN:36:ALA:CA	14:AN:129:THR:HG22	2.48	0.42
14:AN:45:GLN:N	14:AN:45:GLN:OE1	2.53	0.42
14:AN:85:LYS:CD	14:AN:86:GLY:H	2.30	0.42
14:AN:119:ARG:HE	14:AN:119:ARG:HB3	1.25	0.42
15:AO:103:ARG:HB2	15:AO:108:GLY:O	2.14	0.42
18:AR:98:LEU:HD13	18:AR:101:ARG:CG	2.49	0.42
19:AS:35:LEU:O	19:AS:61:VAL:CG1	2.64	0.42
19:AS:40:LEU:CD1	19:AS:55:ALA:CA	2.92	0.42
19:AS:41:GLY:N	19:AS:51:VAL:HA	2.34	0.42
21:AU:14:SER:O	21:AU:17:ALA:HB3	2.19	0.42
21:AU:85:PRO:HB2	21:AU:87:GLN:NE2	2.33	0.42
23:AW:43:GLU:HA	23:AW:46:LYS:CE	2.48	0.42
23:AW:77:ASP:O	23:AW:78:LYS:O	2.37	0.42
23:AW:78:LYS:CG	23:AW:79:ARG:N	2.81	0.42
23:AW:98:MET:HE2	23:AW:100:VAL:HG12	2.02	0.42
25:AY:30:LEU:CD1	25:AY:45:ILE:HA	2.49	0.42
25:AY:33:GLN:HB3	25:AY:41:GLN:CD	2.44	0.42
26:AZ:55:ARG:NH1	26:AZ:55:ARG:HG3	2.33	0.42
28:Ab:37:LYS:HB2	28:Ab:38:ALA:H	1.41	0.42
29:Ac:54:ILE:OXT	29:Ac:54:ILE:HG23	2.19	0.42
31:Ae:10:ALA:HB1	31:Ae:64:TYR:CG	2.54	0.42
33:Ag:325:UNK:O	33:Ag:327:UNK:N	2.52	0.42
34:BA:51:A:H4'	34:BA:52:G:O5'	2.16	0.42
34:BA:78:G:C6	34:BA:79:G:N7	2.88	0.42
34:BA:149:A:C6	34:BA:150:C:N4	2.88	0.42
34:BA:151:A:N6	34:BA:171:A:C6	2.87	0.42
34:BA:151:A:C6	34:BA:152:A:N3	2.87	0.42
34:BA:242:C:H2'	34:BA:243:A:O5'	2.19	0.42
34:BA:270:A:C6	34:BA:271:C:C4	3.07	0.42
34:BA:317:G:C2	34:BA:318:G:C8	3.08	0.42
34:BA:519:C:C5	34:BA:520:A:C2	3.07	0.42
34:BA:568:G:H21	34:BA:883:C:H1'	1.85	0.42
34:BA:696:A:C4	34:BA:697:U:O4'	2.72	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:873:A:H4'	34:BA:874:G:OP2	2.20	0.42
34:BA:880:C:C2'	34:BA:881:G:O5'	2.68	0.42
34:BA:912:C:OP1	45:BP:94:PRO:HG3	2.19	0.42
34:BA:1287:A:H61	34:BA:1371:G:H5'	1.85	0.42
34:BA:1316:G:O3'	47:BR:17:LYS:HD2	2.19	0.42
34:BA:1328:C:H2'	34:BA:1329:A:H8	1.84	0.42
34:BA:1347:G:H3'	42:BM:107:ARG:HB3	2.02	0.42
34:BA:1348:U:C2	34:BA:1349:A:C8	3.08	0.42
34:BA:1407:C:C2'	34:BA:1408:A:C5'	2.86	0.42
35:BF:55:PHE:HD2	35:BF:221:LEU:HB2	1.85	0.42
35:BF:113:HIS:ND1	35:BF:116:GLU:OE1	2.51	0.42
35:BF:158:LEU:O	35:BF:160:ASP:OD2	2.38	0.42
36:BG:33:LEU:HD21	47:BR:52:GLN:O	2.20	0.42
36:BG:40:ARG:O	36:BG:44:GLU:HG3	2.19	0.42
36:BG:49:SER:C	36:BG:51:GLY:N	2.76	0.42
36:BG:147:LYS:HB2	36:BG:203:PHE:HD2	1.83	0.42
36:BG:187:ALA:HB3	36:BG:198:VAL:HG21	1.98	0.42
37:BH:144:ASP:C	37:BH:184:LYS:CD	2.90	0.42
38:BI:39:GLY:C	38:BI:68:GLU:CD	2.87	0.42
38:BI:132:ALA:O	38:BI:135:THR:CB	2.68	0.42
39:BJ:86:ARG:HA	39:BJ:86:ARG:HD3	1.75	0.42
40:BK:12:LEU:HD21	40:BK:25:ALA:HB2	2.02	0.42
40:BK:69:VAL:O	40:BK:138:LYS:HD2	2.19	0.42
40:BK:71:PRO:CD	40:BK:96:GLN:HG3	2.50	0.42
40:BK:72:ARG:HH11	40:BK:72:ARG:CG	2.32	0.42
40:BK:76:ARG:O	40:BK:156:TRP:CZ2	2.72	0.42
41:BL:18:ARG:NE	41:BL:18:ARG:H	2.18	0.42
41:BL:25:ASP:OD1	41:BL:25:ASP:N	2.53	0.42
41:BL:65:TYR:HB3	41:BL:76:PRO:HB2	2.02	0.42
42:BM:71:SER:O	42:BM:72:GLY:C	2.63	0.42
44:BO:50:TYR:CE1	44:BO:60:ALA:HB2	2.54	0.42
45:BP:102:ARG:HH11	45:BP:110:VAL:HG13	1.85	0.42
46:BQ:19:LEU:HD13	46:BQ:29:ARG:O	2.19	0.42
46:BQ:84:ILE:C	46:BQ:86:CYS:N	2.77	0.42
46:BQ:86:CYS:C	52:BW:74:PHE:HA	2.45	0.42
46:BQ:91:ARG:O	46:BQ:96:LEU:HD21	2.19	0.42
48:BS:5:LYS:HG3	48:BS:6:GLU:OE2	2.19	0.42
48:BS:63:ARG:HH22	48:BS:87:ILE:CD1	2.30	0.42
49:BT:9:PHE:CD2	49:BT:9:PHE:N	2.88	0.42
49:BT:46:PRO:CD	49:BT:47:ASP:H	2.32	0.42
49:BT:80:PHE:O	49:BT:80:PHE:CD2	2.72	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:58:LEU:HD13	51:BV:66:LEU:CD2	2.49	0.42
53:BX:61:SER:O	53:BX:65:LYS:HG2	2.18	0.42
55:CA:4:LYS:C	55:CA:68:TYR:CG	2.96	0.42
55:CA:201:LEU:O	55:CA:201:LEU:HD23	2.19	0.42
55:CA:407:VAL:H	55:CA:436:ARG:HH12	1.58	0.42
55:CA:480:VAL:O	55:CA:480:VAL:HG13	2.19	0.42
55:CA:515:GLY:O	55:CA:516:ALA:O	2.38	0.42
55:CA:573:ASP:OD1	55:CA:574:ASP:N	2.44	0.42
1:AA:28:A:C8	1:AA:513:A:N6	2.88	0.42
1:AA:146:G:C2'	1:AA:147:U:H5''	2.49	0.42
1:AA:295:G:OP1	1:AA:338:G:O6	2.38	0.42
1:AA:317:G:O2'	1:AA:318:C:H5'	2.18	0.42
1:AA:329:G:OP2	22:AV:66:PRO:HG3	2.19	0.42
1:AA:374:A:C4	1:AA:375:C:C6	3.08	0.42
1:AA:379:G:C6	1:AA:380:U:C4	3.08	0.42
1:AA:410:G:H5''	1:AA:411:G:P	2.60	0.42
1:AA:475:U:O2	1:AA:475:U:H2'	2.19	0.42
1:AA:477:A:C4	1:AA:478:A:N7	2.88	0.42
1:AA:520:G:P	20:AT:25:ARG:HH22	2.41	0.42
1:AA:576:U:OP1	1:AA:2503:A:OP1	2.38	0.42
1:AA:627:A:P	1:AA:637:A:H61	2.43	0.42
1:AA:659:C:C4'	6:AF:102:PRO:CD	2.97	0.42
1:AA:727:A:H2'	1:AA:728:G:C5'	2.43	0.42
1:AA:734:A:N3	1:AA:735:A:C8	2.87	0.42
1:AA:860:U:H6	1:AA:2267:A:C5'	2.33	0.42
1:AA:922:U:O2	1:AA:923:C:C5	2.72	0.42
1:AA:954:G:H1'	1:AA:2274:A:H2	1.83	0.42
1:AA:978:G:N2	1:AA:979:G:C2	2.88	0.42
1:AA:1031:G:N1	1:AA:1032:A:C5	2.87	0.42
1:AA:1100:C:H2'	1:AA:1101:U:OP1	2.20	0.42
1:AA:1179:C:OP2	1:AA:1179:C:H3'	2.19	0.42
1:AA:1275:A:C2'	1:AA:1276:A:O5'	2.67	0.42
1:AA:1344:G:C6	1:AA:1404:C:C4	3.08	0.42
1:AA:1347:G:O2'	1:AA:1348:G:C5'	2.67	0.42
1:AA:1362:C:C4	1:AA:1363:C:C5	3.07	0.42
1:AA:1367:A:N6	1:AA:1368:G:H1'	2.35	0.42
1:AA:1527:G:H2'	1:AA:1528:A:O5'	2.19	0.42
1:AA:1535:U:O2	1:AA:1536:A:H1'	2.20	0.42
1:AA:1542:G:H1'	1:AA:1543:A:C2	2.54	0.42
1:AA:1549:C:O2'	1:AA:1550:C:H5'	2.19	0.42
1:AA:1661:G:N1	1:AA:2000:G:C4	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1687:G:H1'	1:AA:1702:G:H22	1.85	0.42
1:AA:1777:U:O2'	1:AA:1778:U:C5'	2.54	0.42
1:AA:1818:U:H3	4:AD:155:LEU:H	1.67	0.42
1:AA:1856:G:N7	1:AA:1857:G:N3	2.67	0.42
1:AA:1884:A:P	1:AA:1884:A:O4'	2.78	0.42
1:AA:1924:C:O2'	1:AA:1925:C:H5'	2.20	0.42
1:AA:1936:A:C2	1:AA:1940:U:O2	2.72	0.42
1:AA:1945:G:C2'	1:AA:1946:U:O5'	2.68	0.42
1:AA:2014:A:C2	1:AA:2015:A:N1	2.87	0.42
1:AA:2027:G:C4	1:AA:2028:U:C6	3.08	0.42
1:AA:2042:A:H2'	1:AA:2043:C:OP2	2.19	0.42
1:AA:2124:G:N3	3:AC:217:THR:HA	2.34	0.42
1:AA:2209:C:O2'	1:AA:2210:G:C3'	2.67	0.42
1:AA:2310:A:N1	7:AG:80:PHE:CD1	2.87	0.42
1:AA:2331:G:C4	1:AA:2332:U:C2	3.08	0.42
1:AA:2472:G:C4	1:AA:2475:C:N3	2.88	0.42
1:AA:2509:G:C6	1:AA:2580:U:N3	2.87	0.42
1:AA:2532:G:O5'	1:AA:2532:G:H8	2.02	0.42
1:AA:2548:G:O6	1:AA:2561:A:N6	2.53	0.42
1:AA:2657:A:N6	1:AA:2664:G:O2'	2.38	0.42
1:AA:2812:G:C6	1:AA:2813:A:C6	3.08	0.42
1:AA:2861:G:H2'	1:AA:2862:G:C8	2.52	0.42
2:AB:62:C:N3	2:AB:63:G:N7	2.68	0.42
2:AB:84:C:H2'	2:AB:85:G:C5'	2.45	0.42
2:AB:85:G:C2	2:AB:92:G:C2	3.08	0.42
4:AD:21:PHE:CD1	4:AD:21:PHE:N	2.84	0.42
4:AD:98:VAL:HG23	4:AD:98:VAL:H	1.63	0.42
4:AD:108:PRO:C	4:AD:196:VAL:O	2.63	0.42
4:AD:134:ARG:HA	4:AD:168:ARG:NH2	2.34	0.42
4:AD:147:LEU:HD23	4:AD:154:LYS:CG	2.49	0.42
4:AD:147:LEU:CD2	4:AD:154:LYS:HG3	2.49	0.42
4:AD:155:LEU:O	4:AD:155:LEU:CG	2.66	0.42
4:AD:168:ARG:HG2	4:AD:173:VAL:CG1	2.21	0.42
4:AD:174:ILE:CD1	4:AD:174:ILE:N	2.78	0.42
5:AE:38:THR:C	5:AE:42:ASP:OD1	2.62	0.42
5:AE:131:ALA:C	5:AE:133:LYS:N	2.77	0.42
5:AE:176:ILE:HG23	5:AE:181:LEU:H	1.85	0.42
5:AE:179:GLU:CD	5:AE:179:GLU:H	2.28	0.42
6:AF:37:VAL:O	6:AF:184:TYR:CE2	2.72	0.42
6:AF:202:PHE:CZ	6:AF:205:ARG:NH1	2.87	0.42
7:AG:19:LEU:HA	7:AG:22:ARG:HE	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:37:VAL:HG13	7:AG:159:VAL:CA	2.48	0.42
7:AG:55:LYS:HE2	7:AG:148:MET:HB3	2.02	0.42
7:AG:59:GLU:HB3	7:AG:152:LEU:CD1	2.48	0.42
7:AG:113:ARG:HH11	7:AG:139:LEU:CD2	2.33	0.42
7:AG:152:LEU:HB2	7:AG:155:MET:CE	2.50	0.42
8:AH:16:SER:CB	8:AH:27:LYS:HB2	2.45	0.42
8:AH:18:GLU:CD	8:AH:25:LYS:HB3	2.40	0.42
8:AH:132:ARG:HD3	8:AH:132:ARG:H	1.78	0.42
9:AI:135:ARG:C	9:AI:137:GLU:N	2.73	0.42
10:AJ:44:ALA:HB3	10:AJ:66:THR:CG2	2.49	0.42
11:AK:16:ILE:HG22	11:AK:21:LYS:HZ2	1.85	0.42
11:AK:25:ARG:O	11:AK:29:LYS:HG3	2.20	0.42
11:AK:42:TRP:HZ3	18:AR:71:GLN:NE2	2.17	0.42
11:AK:70:LYS:CD	11:AK:86:PRO:HA	2.50	0.42
12:AL:15:GLY:HA2	12:AL:52:VAL:HG21	1.96	0.42
12:AL:53:LYS:HB2	12:AL:53:LYS:HE3	1.89	0.42
12:AL:62:VAL:C	12:AL:82:ASN:O	2.61	0.42
12:AL:64:ARG:HH21	12:AL:67:LYS:HE2	1.83	0.42
12:AL:101:PRO:CG	34:BA:346:G:C5'	2.97	0.42
12:AL:115:VAL:HG11	34:BA:345:C:C2	2.43	0.42
13:AM:46:LYS:NZ	13:AM:50:ARG:CZ	2.83	0.42
13:AM:74:GLU:N	13:AM:107:LYS:CE	2.83	0.42
13:AM:96:THR:OG1	13:AM:102:ARG:CD	2.65	0.42
13:AM:97:PRO:HA	13:AM:102:ARG:HE	1.83	0.42
13:AM:122:PRO:CA	13:AM:134:ALA:HA	2.45	0.42
14:AN:79:LEU:O	14:AN:80:GLU:HG3	2.20	0.42
14:AN:98:LYS:HE2	14:AN:98:LYS:N	2.34	0.42
15:AO:33:ARG:HH22	28:Ab:56:LYS:CB	2.32	0.42
15:AO:53:HIS:O	15:AO:56:LYS:CG	2.60	0.42
16:AP:57:LYS:HD3	16:AP:58:LEU:N	2.34	0.42
17:AQ:78:LEU:HD23	17:AQ:79:HIS:H	1.83	0.42
17:AQ:105:LEU:O	17:AQ:106:SER:C	2.62	0.42
18:AR:66:ASN:HB3	18:AR:70:ARG:HD3	2.01	0.42
20:AT:3:ALA:CB	20:AT:107:LEU:HB3	2.41	0.42
21:AU:18:TYR:OH	21:AU:96:ILE:CD1	2.67	0.42
21:AU:30:VAL:O	21:AU:31:HIS:C	2.62	0.42
21:AU:66:LEU:HG	21:AU:70:LEU:HA	2.02	0.42
22:AV:12:THR:HA	22:AV:73:ARG:NH1	2.33	0.42
22:AV:12:THR:C	22:AV:73:ARG:NH2	2.76	0.42
23:AW:17:ALA:O	23:AW:20:ARG:CB	2.68	0.42
23:AW:122:ARG:HB2	23:AW:171:ILE:HA	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:127:LYS:CD	23:AW:163:LEU:HA	2.29	0.42
26:AZ:16:PRO:O	26:AZ:19:GLN:HB3	2.20	0.42
26:AZ:43:ILE:O	26:AZ:47:VAL:HG23	2.20	0.42
26:AZ:52:HIS:CE1	26:AZ:53:LEU:CG	3.01	0.42
27:Aa:17:GLY:CA	27:Aa:33:VAL:HG12	2.50	0.42
28:Ab:9:LYS:HD2	28:Ab:9:LYS:H	1.78	0.42
29:Ac:35:GLU:O	29:Ac:36:LEU:O	2.38	0.42
31:Ae:50:LEU:O	31:Ae:51:ALA:HB3	2.20	0.42
34:BA:61:G:N7	34:BA:62:U:C4	2.87	0.42
34:BA:176:C:H2'	34:BA:177:C:C6	2.53	0.42
34:BA:263:A:H5''	53:BX:75:ASN:HD21	1.84	0.42
34:BA:297:G:N2	34:BA:299:G:H3'	2.35	0.42
34:BA:448:A:C4	34:BA:487:A:C2	3.08	0.42
34:BA:450:G:H3'	34:BA:481:G:H1	1.84	0.42
34:BA:451:A:H1'	34:BA:452:A:C5	2.52	0.42
34:BA:483:C:C6	34:BA:483:C:H3'	2.54	0.42
34:BA:513:C:O5'	34:BA:513:C:H6	2.02	0.42
34:BA:535:A:C4'	34:BA:536:C:OP2	2.63	0.42
34:BA:540:G:C6	34:BA:541:G:C6	3.07	0.42
34:BA:627:G:C2'	34:BA:628:G:O5'	2.68	0.42
34:BA:667:G:C6	34:BA:740:U:C4	3.08	0.42
34:BA:697:U:C3'	34:BA:698:G:H8	2.33	0.42
34:BA:728:A:C8	48:BS:54:ARG:NH1	2.88	0.42
34:BA:753:A:O2'	34:BA:754:C:OP2	2.34	0.42
34:BA:776:G:N2	34:BA:802:A:OP2	2.53	0.42
34:BA:944:G:N2	34:BA:1339:A:N6	2.54	0.42
34:BA:1004:A:C5'	34:BA:1025:U:C5	3.02	0.42
34:BA:1053:G:O5'	34:BA:1055:A:OP1	2.38	0.42
34:BA:1057:G:OP1	36:BG:155:GLY:HA2	2.20	0.42
34:BA:1066:C:H5''	34:BA:1067:A:P	2.60	0.42
34:BA:1194:U:O5'	34:BA:1194:U:H6	2.01	0.42
34:BA:1194:U:C4	34:BA:1195:C:C4	3.08	0.42
34:BA:1224:G:N2	34:BA:1362(A):C:C4	2.81	0.42
34:BA:1250:A:H2'	34:BA:1251:A:O4'	2.19	0.42
34:BA:1261:A:C2	34:BA:1262:C:N3	2.88	0.42
34:BA:1268:A:H2	34:BA:1327:C:H1'	1.83	0.42
34:BA:1291:G:N1	34:BA:1292:U:C4	2.87	0.42
34:BA:1305:G:O4'	34:BA:1305:G:OP2	2.38	0.42
34:BA:1315:U:C1'	34:BA:1361:G:C5'	2.97	0.42
34:BA:1321:C:H6	34:BA:1321:C:H3'	1.81	0.42
34:BA:1348:U:P	42:BM:109:VAL:HA	2.60	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1442:G:H5''	34:BA:1443:G:O5'	2.20	0.42
35:BF:20:GLU:O	35:BF:40:HIS:HB2	2.20	0.42
35:BF:70:PHE:O	35:BF:92:TYR:CB	2.67	0.42
35:BF:71:VAL:O	35:BF:164:VAL:CG2	2.62	0.42
35:BF:90:MET:SD	35:BF:91:PRO:CD	3.01	0.42
35:BF:164:VAL:HG22	35:BF:165:VAL:H	1.82	0.42
36:BG:128:PHE:O	36:BG:130:VAL:N	2.52	0.42
36:BG:139:GLN:C	36:BG:170:GLN:HE22	2.28	0.42
36:BG:142:MET:HG3	36:BG:143:GLU:N	2.35	0.42
36:BG:165:THR:CG2	36:BG:166:GLU:N	2.81	0.42
37:BH:19:LEU:N	37:BH:33:MET:CE	2.77	0.42
37:BH:32:ALA:HA	37:BH:37:PRO:HA	2.02	0.42
37:BH:88:VAL:O	37:BH:92:VAL:HG23	2.20	0.42
38:BI:72:GLN:CG	38:BI:77:PRO:HD3	2.49	0.42
38:BI:87:SER:HB3	38:BI:131:ILE:CG1	2.48	0.42
39:BJ:14:LEU:HD21	39:BJ:18:GLN:HG2	2.00	0.42
39:BJ:34:GLY:O	39:BJ:68:PRO:HD3	2.19	0.42
39:BJ:76:ALA:CA	39:BJ:79:LEU:HG	2.50	0.42
41:BL:77:GLU:HB3	41:BL:78:GLN:H	1.45	0.42
41:BL:104:ARG:HD3	41:BL:107:LEU:HD11	2.01	0.42
43:BN:48:THR:OG1	43:BN:62:HIS:CD2	2.72	0.42
45:BP:82:VAL:HG12	45:BP:105:TYR:CD1	2.55	0.42
46:BQ:52:GLU:HA	46:BQ:55:ARG:HD3	2.01	0.42
51:BV:34:TYR:HE1	51:BV:35:ARG:NE	2.17	0.42
51:BV:80:PRO:O	51:BV:82:THR:N	2.53	0.42
53:BX:51:GLU:HA	53:BX:54:LYS:HE3	1.97	0.42
55:CA:13:HIS:O	55:CA:15:ASP:N	2.53	0.42
55:CA:202:ASP:HB2	55:CA:203:GLY:H	1.68	0.42
55:CA:212:LEU:HA	55:CA:223:ILE:HD12	2.01	0.42
55:CA:305:PRO:CG	55:CA:344:ALA:O	2.59	0.42
55:CA:404:THR:HG21	55:CA:437:VAL:O	2.20	0.42
55:CA:425:ASP:O	55:CA:441:TYR:HA	2.18	0.42
55:CA:538:LEU:N	55:CA:539:THR:CA	2.82	0.42
1:AA:6:A:N1	1:AA:2897:U:C6	2.87	0.42
1:AA:18:C:C2	1:AA:19:C:C6	3.08	0.42
1:AA:74:A:C2	25:AY:46:ARG:NE	2.88	0.42
1:AA:137(A):G:N1	1:AA:138:G:O6	2.52	0.42
1:AA:194:G:O5'	1:AA:194:G:H8	2.03	0.42
1:AA:245:G:P	13:AM:65:ARG:HH11	2.43	0.42
1:AA:327:G:H2'	1:AA:327:G:N3	2.34	0.42
1:AA:363(F):A:N3	1:AA:363(F):A:H2'	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:370:G:C2	1:AA:424:G:C8	3.08	0.42
1:AA:452:G:N1	1:AA:458:G:N3	2.57	0.42
1:AA:480:A:C2'	1:AA:481:G:OP1	2.68	0.42
1:AA:491:G:H2'	1:AA:492:A:C1'	2.50	0.42
1:AA:511:U:C5	1:AA:512:G:H1'	2.55	0.42
1:AA:531:C:O2	1:AA:531:C:C2'	2.68	0.42
1:AA:582:G:N2	1:AA:1259:G:C4	2.87	0.42
1:AA:594:U:C2	1:AA:595:C:C5	3.07	0.42
1:AA:666:G:O2'	1:AA:667:U:C5'	2.68	0.42
1:AA:792:G:N2	1:AA:2072:G:C1'	2.66	0.42
1:AA:811:U:H6	1:AA:811:U:C3'	2.29	0.42
1:AA:973:A:C1'	1:AA:1188:U:C5	3.02	0.42
1:AA:1023:U:H2'	1:AA:1024:G:C4'	2.49	0.42
1:AA:1024:G:C5	1:AA:1134:G:H1'	2.54	0.42
1:AA:1051:G:C2'	1:AA:1052:C:H5''	2.49	0.42
1:AA:1061:U:H2'	10:AJ:52:ILE:HG23	2.01	0.42
1:AA:1067:A:C4	1:AA:1068:G:O6	2.72	0.42
1:AA:1287:A:N3	1:AA:1287:A:C2'	2.82	0.42
1:AA:1312:U:C6	21:AU:62:LYS:HG3	2.52	0.42
1:AA:1342:A:N7	1:AA:1601:G:O6	2.53	0.42
1:AA:1343:G:C6	1:AA:1344:G:C8	3.07	0.42
1:AA:1346:G:C6	1:AA:1347:G:C6	3.08	0.42
1:AA:1385:G:C5	1:AA:1386:C:C5	3.08	0.42
1:AA:1385:G:O2'	1:AA:1386:C:C5'	2.68	0.42
1:AA:1420:U:C6	1:AA:1420:U:OP2	2.73	0.42
1:AA:1471:A:O2'	1:AA:1472:A:H5'	2.20	0.42
1:AA:1535:U:N3	1:AA:1536:A:C4	2.88	0.42
1:AA:1672:C:O2	1:AA:2582:G:H1'	2.20	0.42
1:AA:1679:U:O4	1:AA:1764:G:H5''	2.20	0.42
1:AA:1700:A:HO2'	1:AA:1701:A:P	2.38	0.42
1:AA:1786:A:C5	1:AA:1787:A:C5	3.08	0.42
1:AA:1824:G:H2'	1:AA:1825:A:C1'	2.48	0.42
1:AA:1953:A:O2'	1:AA:2559:C:O2'	2.22	0.42
1:AA:1977:A:C2	1:AA:1978:A:H1'	2.54	0.42
1:AA:1997:G:N2	1:AA:1998:G:C4	2.87	0.42
1:AA:2029:G:H2'	1:AA:2030:A:O3'	2.19	0.42
1:AA:2033:A:C6	1:AA:2036:C:N3	2.88	0.42
1:AA:2160:G:N2	1:AA:2161:C:O2	2.52	0.42
1:AA:2210:G:O6	4:AD:70:TRP:CH2	2.72	0.42
1:AA:2261:C:N4	24:AX:15:ASP:O	2.53	0.42
1:AA:2331:G:N2	1:AA:2385:C:C5	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2341:G:H22	1:AA:2374:C:H4'	1.84	0.42
1:AA:2346:A:H1'	1:AA:2383:G:N7	2.26	0.42
1:AA:2351:G:H22	1:AA:2365:G:H2'	1.85	0.42
1:AA:2391:G:C2'	1:AA:2392:A:OP2	2.68	0.42
1:AA:2444:G:N3	1:AA:2444:G:H2'	2.34	0.42
1:AA:2525:G:C2	1:AA:2539:C:C4	3.07	0.42
1:AA:2556:C:C2'	1:AA:2557:G:C5'	2.97	0.42
1:AA:2576:G:H3'	1:AA:2576:G:N3	2.34	0.42
1:AA:2678:C:H2'	1:AA:2679:A:H8	1.85	0.42
1:AA:2721:A:C2	1:AA:2873:A:N1	2.88	0.42
1:AA:2848:G:O2'	1:AA:2849:U:P	2.78	0.42
1:AA:2869:G:C2	1:AA:2870:C:C2	3.08	0.42
2:AB:19:G:N2	2:AB:20:C:C2	2.88	0.42
2:AB:28:C:H2'	2:AB:29:A:C8	2.55	0.42
2:AB:48:A:H4'	16:AP:95:HIS:CE1	2.54	0.42
2:AB:85:G:N1	2:AB:86:G:C5	2.88	0.42
2:AB:99:A:C2'	2:AB:100:G:H5'	2.49	0.42
3:AC:64:LEU:HD22	3:AC:188:ASN:O	2.20	0.42
3:AC:129:ARG:HB2	3:AC:130:ILE:HD12	2.02	0.42
4:AD:28:GLU:N	4:AD:28:GLU:CD	2.78	0.42
4:AD:35:LYS:H	4:AD:35:LYS:HG3	1.65	0.42
4:AD:75:ILE:O	4:AD:75:ILE:HG22	2.19	0.42
4:AD:101:GLU:CD	4:AD:102:LYS:O	2.63	0.42
4:AD:201:HIS:HB3	4:AD:202:LYS:HD2	2.02	0.42
5:AE:38:THR:CG2	5:AE:39:PRO:HD3	2.50	0.42
5:AE:59:VAL:HB	5:AE:62:PRO:CG	2.49	0.42
5:AE:119:ARG:CZ	5:AE:155:LYS:CG	2.98	0.42
5:AE:119:ARG:NE	5:AE:119:ARG:C	2.78	0.42
6:AF:128:ALA:O	6:AF:129:PHE:HB2	2.18	0.42
6:AF:149:ASP:C	6:AF:172:TRP:NE1	2.78	0.42
6:AF:185:ASP:C	6:AF:188:ARG:HG3	2.45	0.42
6:AF:192:LEU:C	6:AF:192:LEU:CD1	2.87	0.42
7:AG:19:LEU:HG	7:AG:22:ARG:NH2	2.29	0.42
7:AG:55:LYS:CE	7:AG:152:LEU:HD11	2.50	0.42
7:AG:162:THR:O	7:AG:164:GLU:HG2	2.19	0.42
10:AJ:64:SER:CA	10:AJ:65:PHE:CB	2.97	0.42
10:AJ:109:LYS:HE2	10:AJ:109:LYS:HB3	1.63	0.42
11:AK:7:LYS:CE	11:AK:8:GLN:H	2.27	0.42
12:AL:3:GLN:CD	12:AL:3:GLN:O	2.61	0.42
12:AL:13:ASN:O	12:AL:14:THR:C	2.62	0.42
12:AL:17:ARG:NH2	12:AL:98:VAL:O	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:23:ARG:HH12	12:AL:30:ALA:HB2	1.83	0.42
12:AL:28:SER:O	12:AL:29:ASN:CB	2.64	0.42
12:AL:85:VAL:O	12:AL:93:PRO:CG	2.67	0.42
12:AL:85:VAL:CB	12:AL:93:PRO:HG3	2.46	0.42
12:AL:110:GLY:O	12:AL:111:PHE:HB3	2.19	0.42
12:AL:119:PRO:CB	34:BA:347:G:C8	3.00	0.42
13:AM:71:VAL:N	13:AM:72:PRO:CD	2.83	0.42
13:AM:74:GLU:CD	13:AM:101:VAL:O	2.62	0.42
13:AM:78:PRO:CG	13:AM:115:LEU:O	2.67	0.42
13:AM:86:LYS:NZ	13:AM:99:LEU:CD1	2.83	0.42
14:AN:67:ARG:NE	14:AN:103:MET:HB3	2.24	0.42
14:AN:67:ARG:HD3	14:AN:103:MET:SD	2.60	0.42
14:AN:82:ARG:HD2	24:AX:5:LYS:HD3	2.01	0.42
14:AN:102:VAL:O	14:AN:103:MET:HE2	2.20	0.42
15:AO:90:ARG:HH21	15:AO:117:VAL:HG13	1.81	0.42
16:AP:32:LEU:HG	16:AP:97:ARG:HH22	1.83	0.42
16:AP:41:ASP:CG	16:AP:42:ASP:H	2.26	0.42
18:AR:32:PHE:O	18:AR:33:ARG:C	2.62	0.42
18:AR:65:ILE:HB	18:AR:76:TYR:OH	2.19	0.42
18:AR:89:GLU:CD	19:AS:52:VAL:CB	2.89	0.42
19:AS:78:LYS:HG3	19:AS:79:VAL:N	2.35	0.42
20:AT:13:SER:O	20:AT:17:VAL:CG2	2.65	0.42
22:AV:1:MET:HG2	22:AV:67:LEU:HD22	1.98	0.42
22:AV:2:ARG:HD2	22:AV:3:VAL:CA	2.49	0.42
22:AV:23:ARG:CG	22:AV:39:VAL:HG22	2.49	0.42
22:AV:36:ALA:HB1	22:AV:62:GLU:O	2.20	0.42
23:AW:160:GLY:O	23:AW:161:VAL:O	2.38	0.42
26:AZ:7:LYS:HE2	26:AZ:32:GLN:HA	2.02	0.42
27:Aa:31:ILE:CD1	27:Aa:31:ILE:N	2.76	0.42
28:Ab:12:SER:HB3	28:Ab:14:ALA:CB	2.47	0.42
31:Ae:29:LYS:HB3	31:Ae:34:TRP:HH2	1.70	0.42
31:Ae:29:LYS:CB	31:Ae:34:TRP:CH2	2.90	0.42
32:Af:19:ARG:HD2	32:Af:24:TYR:CD2	2.55	0.42
33:Ag:323:UNK:C	33:Ag:325:UNK:N	2.83	0.42
34:BA:35:G:C5	34:BA:36:C:C5	3.08	0.42
34:BA:48:C:H2'	34:BA:49:U:OP1	2.20	0.42
34:BA:51:A:N1	34:BA:353:A:N1	2.67	0.42
34:BA:61:G:C6	34:BA:107:G:O6	2.72	0.42
34:BA:101:A:C2'	34:BA:102:G:H8	2.16	0.42
34:BA:104:G:OP1	53:BX:21:LYS:NZ	2.48	0.42
34:BA:136:C:C1'	49:BT:1:MET:HE1	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:144:G:C4	34:BA:179:A:C2	3.07	0.42
34:BA:148:G:H1	34:BA:174:C:N4	2.09	0.42
34:BA:246:A:HO2'	34:BA:247:G:C1'	2.19	0.42
34:BA:258:G:C6	34:BA:259:G:C5	3.08	0.42
34:BA:265:G:C8	34:BA:267:C:C4	3.08	0.42
34:BA:403:C:H2'	34:BA:404:U:C6	2.55	0.42
34:BA:408:A:C4	34:BA:409:G:N7	2.88	0.42
34:BA:410:G:N2	34:BA:429:U:C2	2.88	0.42
34:BA:421:U:O2	36:BG:127:ARG:CZ	2.68	0.42
34:BA:513:C:N4	34:BA:514:C:N4	2.68	0.42
34:BA:518:C:O2	34:BA:529:G:O6	2.38	0.42
34:BA:543:C:OP2	37:BH:10:ARG:NH2	2.53	0.42
34:BA:578:C:H3'	34:BA:578:C:C6	2.55	0.42
34:BA:652:U:C5	34:BA:752:G:C2	3.08	0.42
34:BA:763:G:N2	34:BA:764:C:C2	2.88	0.42
34:BA:812:C:O4'	34:BA:813:U:C6	2.73	0.42
34:BA:818:G:C3'	34:BA:819:A:H5''	2.49	0.42
34:BA:821:G:C6	34:BA:880:C:N3	2.88	0.42
34:BA:848:C:O2'	34:BA:849:C:C5'	2.66	0.42
34:BA:937:A:N3	34:BA:1379:G:N1	2.68	0.42
34:BA:953:G:O2'	34:BA:954:G:C5'	2.67	0.42
34:BA:1088:G:N2	34:BA:1089:G:H1'	2.34	0.42
34:BA:1091:U:O2	34:BA:1093:A:C8	2.72	0.42
34:BA:1141:C:C2	34:BA:1142:G:C8	3.07	0.42
34:BA:1185:G:O5'	34:BA:1185:G:H8	2.03	0.42
34:BA:1320:C:C3'	52:BW:73:GLU:HB3	2.48	0.42
34:BA:1326:C:OP1	54:BY:17:THR:OG1	2.23	0.42
34:BA:1331:G:O2'	34:BA:1332:A:P	2.78	0.42
34:BA:1347:G:C8	42:BM:107:ARG:HB2	2.54	0.42
34:BA:1404:C:C2	34:BA:1405:G:C8	3.08	0.42
34:BA:1438:G:C5	34:BA:1439:C:C4	3.07	0.42
34:BA:1439:C:O5'	34:BA:1439:C:H6	2.02	0.42
34:BA:1453:G:C2'	34:BA:1454:G:C5'	2.98	0.42
34:BA:1454:G:C5	34:BA:1455:G:C5	3.08	0.42
34:BA:1483:A:H2'	34:BA:1484:C:H5'	2.00	0.42
34:BA:1483:A:H2'	34:BA:1484:C:O5'	2.18	0.42
34:BA:1485:U:H2'	34:BA:1486:G:H8	1.80	0.42
34:BA:1507:A:N6	34:BA:1530:G:C5	2.88	0.42
35:BF:23:ARG:HH11	35:BF:23:ARG:HB2	1.84	0.42
35:BF:42:ILE:CD1	35:BF:47:THR:OG1	2.68	0.42
35:BF:71:VAL:HG21	35:BF:93:VAL:HB	1.96	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:92:TYR:O	35:BF:152:PHE:CA	2.67	0.42
35:BF:92:TYR:N	35:BF:92:TYR:CD2	2.87	0.42
35:BF:92:TYR:CE2	35:BF:151:GLY:C	2.98	0.42
35:BF:186:ALA:O	35:BF:201:ILE:CB	2.57	0.42
35:BF:204:ASN:HD22	35:BF:205:ASP:N	2.17	0.42
36:BG:10:PHE:CD1	36:BG:178:LEU:CD2	3.00	0.42
36:BG:29:TYR:HA	36:BG:32:LEU:HD12	2.01	0.42
36:BG:131:ARG:HH22	38:BI:51:VAL:HG23	1.85	0.42
37:BH:3:ARG:HG3	37:BH:118:ARG:CZ	2.49	0.42
37:BH:63:LYS:H	37:BH:63:LYS:CD	2.31	0.42
37:BH:126:ILE:O	37:BH:132:ARG:HB2	2.20	0.42
37:BH:170:VAL:HG11	37:BH:174:LEU:CD1	2.49	0.42
38:BI:89:ILE:HD11	38:BI:122:GLU:OE2	2.19	0.42
38:BI:129:ILE:O	38:BI:132:ALA:N	2.53	0.42
39:BJ:7:ASN:O	39:BJ:8:ILE:HG12	2.19	0.42
40:BK:50:ILE:CD1	40:BK:58:PRO:CB	2.96	0.42
41:BL:28:ALA:HB3	41:BL:57:PRO:O	2.20	0.42
41:BL:45:ILE:HD11	41:BL:48:TYR:CB	2.37	0.42
41:BL:75:ARG:HH11	41:BL:75:ARG:HG3	1.85	0.42
41:BL:108:GLY:HA2	41:BL:138:TRP:CB	2.49	0.42
42:BM:6:GLY:HA3	42:BM:84:ALA:H	1.84	0.42
42:BM:89:ASN:O	42:BM:91:ASP:N	2.50	0.42
43:BN:16:LEU:CD2	43:BN:16:LEU:H	2.33	0.42
44:BO:21:ILE:HG22	44:BO:30:VAL:HG21	2.01	0.42
45:BP:80:HIS:HD2	55:CA:326:VAL:N	2.16	0.42
47:BR:24:CYS:HA	47:BR:38:GLY:O	2.19	0.42
48:BS:8:LYS:HE2	48:BS:9:GLN:NE2	2.35	0.42
48:BS:67:LEU:O	48:BS:68:ARG:C	2.63	0.42
48:BS:71:GLN:CA	48:BS:78:TYR:CD1	3.03	0.42
53:BX:99:LEU:HD23	53:BX:99:LEU:N	2.33	0.42
55:CA:15:ASP:CB	55:CA:16:HIS:CD2	2.96	0.42
55:CA:61:THR:HB	55:CA:62:ALA:H	1.71	0.42
55:CA:61:THR:HG21	55:CA:65:LYS:HB3	1.90	0.42
55:CA:80:ASP:HA	55:CA:81:PHE:HD1	1.85	0.42
55:CA:153:ALA:CB	55:CA:156:GLU:HB3	2.50	0.42
55:CA:293:ASN:C	55:CA:294:VAL:HG23	2.44	0.42
55:CA:382:VAL:HG21	55:CA:569:LEU:HG	2.02	0.42
55:CA:406:ASP:OD1	55:CA:407:VAL:HG22	2.19	0.42
55:CA:529:ARG:HB3	55:CA:530:SER:H	1.67	0.42
1:AA:7:G:C5	1:AA:2896:C:C2	3.08	0.42
1:AA:76:C:H5'	25:AY:54:ARG:HH12	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:215:G:H1'	1:AA:216:A:H5''	2.00	0.42
1:AA:217:G:H2'	1:AA:218:A:C5'	2.50	0.42
1:AA:295:G:N9	1:AA:345:A:C2	2.87	0.42
1:AA:330:A:H1'	1:AA:1210:A:C5	2.55	0.42
1:AA:416:C:N3	1:AA:2407:G:O6	2.52	0.42
1:AA:464:U:C1'	30:Ad:12:ARG:HH22	2.33	0.42
1:AA:558:G:OP1	11:AK:109:LYS:CG	2.67	0.42
1:AA:667:U:H2'	1:AA:668:G:C1'	2.50	0.42
1:AA:687:C:H4'	30:Ad:4:THR:HG22	2.01	0.42
1:AA:708:C:H2'	1:AA:709:U:C6	2.55	0.42
1:AA:733:G:C8	1:AA:761:A:C6	3.08	0.42
1:AA:794:G:C4	1:AA:795:C:C5	3.08	0.42
1:AA:814:C:P	19:AS:85:LYS:HB2	2.59	0.42
1:AA:816:C:C4	1:AA:1192:G:N1	2.88	0.42
1:AA:832:G:P	13:AM:35:HIS:CB	3.04	0.42
1:AA:910:A:C6	1:AA:911:A:N6	2.88	0.42
1:AA:967:C:H3'	1:AA:967:C:C6	2.55	0.42
1:AA:1022:G:N7	11:AK:65:LYS:CE	2.78	0.42
1:AA:1069:A:C2	1:AA:1073:A:OP2	2.73	0.42
1:AA:1081:U:H4'	10:AJ:125:ARG:HD2	2.02	0.42
1:AA:1103:A:H2'	1:AA:1104:C:OP1	2.19	0.42
1:AA:1155:A:P	1:AA:1155:A:C3'	3.08	0.42
1:AA:1177:A:C6	1:AA:1178:C:N4	2.88	0.42
1:AA:1224:G:C3'	19:AS:87:HIS:CE1	3.03	0.42
1:AA:1268:A:OP2	1:AA:2005:A:H5''	2.19	0.42
1:AA:1279:G:H4'	15:AO:31:HIS:CD2	2.55	0.42
1:AA:1363:C:N4	27:Aa:2:LYS:CD	2.83	0.42
1:AA:1387:C:C2'	1:AA:1388:G:H8	2.25	0.42
1:AA:1389:G:H2'	1:AA:1390:U:H6	1.83	0.42
1:AA:1615:C:N4	1:AA:1617:C:C2	2.87	0.42
1:AA:1615:C:O2	20:AT:87:PRO:HG3	2.17	0.42
1:AA:1649:G:N2	15:AO:107:ASP:CB	2.63	0.42
1:AA:1672:C:O2'	1:AA:1673:U:OP1	2.26	0.42
1:AA:1675:C:O2	1:AA:1676:A:C8	2.73	0.42
1:AA:1684:C:C2	1:AA:1705:G:N2	2.88	0.42
1:AA:1731:G:N3	1:AA:1731:G:C3'	2.83	0.42
1:AA:1772:G:O2'	1:AA:1773:A:H4'	2.19	0.42
1:AA:1945:G:O2'	1:AA:1946:U:H5'	2.20	0.42
1:AA:1982:C:N4	1:AA:1983:C:H41	2.15	0.42
1:AA:1992:G:C6	1:AA:1997:G:N3	2.88	0.42
1:AA:2018:G:C5	1:AA:2019:A:C5	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2083:G:N3	1:AA:2084:C:C6	2.88	0.42
1:AA:2088:G:H2'	1:AA:2089:U:O4'	2.19	0.42
1:AA:2106:G:H2'	1:AA:2107:C:C6	2.55	0.42
1:AA:2148:G:C4	1:AA:2149:G:C8	3.08	0.42
1:AA:2244:U:C2'	1:AA:2244:U:O2	2.65	0.42
1:AA:2298:A:N1	1:AA:2321:G:O6	2.52	0.42
1:AA:2347:C:C4	1:AA:2348:U:O4	2.72	0.42
1:AA:2423:U:O4'	1:AA:2425:A:C8	2.72	0.42
1:AA:2582:G:C3'	1:AA:2583:G:H5'	2.49	0.42
1:AA:2648:C:C2	1:AA:2649:U:C2	3.08	0.42
1:AA:2784:C:C4'	5:AE:41:LYS:CE	2.95	0.42
1:AA:2799:A:O4'	1:AA:2802:G:C2	2.71	0.42
1:AA:2857:G:C2	1:AA:2861:G:C2	3.07	0.42
1:AA:2867:G:O3'	1:AA:2868:A:H8	2.03	0.42
2:AB:44:G:C2	2:AB:48:A:H1'	2.51	0.42
2:AB:46:A:H8	2:AB:46:A:O5'	2.02	0.42
2:AB:83:G:O2'	2:AB:84:C:C5'	2.61	0.42
3:AC:10:LEU:HD11	3:AC:32:LEU:HD22	1.99	0.42
3:AC:73:ARG:CB	3:AC:93:TYR:HE2	2.32	0.42
3:AC:89:ALA:HB1	3:AC:150:GLY:O	2.19	0.42
3:AC:119:VAL:HG23	3:AC:123:VAL:HG23	2.01	0.42
3:AC:213:TYR:HB3	3:AC:222:VAL:O	2.20	0.42
4:AD:5:LYS:C	4:AD:29:PRO:HD3	2.44	0.42
4:AD:136:ILE:H	4:AD:168:ARG:NH2	2.18	0.42
4:AD:268:ARG:O	4:AD:269:PHE:CG	2.73	0.42
5:AE:49:LEU:CG	5:AE:76:ARG:O	2.67	0.42
6:AF:5:ALA:O	6:AF:7:TYR:CD1	2.73	0.42
6:AF:168:ARG:HD3	6:AF:169:ASN:N	2.34	0.42
7:AG:5:VAL:HG12	7:AG:6:ALA:N	2.35	0.42
7:AG:30:GLU:HB2	7:AG:162:THR:HG21	2.02	0.42
7:AG:49:ASP:O	7:AG:50:ALA:C	2.63	0.42
7:AG:142:PRO:C	7:AG:143:GLU:CG	2.93	0.42
8:AH:25:LYS:CE	8:AH:32:GLU:HB2	2.49	0.42
8:AH:43:VAL:CG1	8:AH:51:ARG:O	2.52	0.42
8:AH:142:GLY:O	8:AH:145:ALA:HB3	2.20	0.42
9:AI:49:ALA:O	9:AI:90:ALA:HB2	2.19	0.42
10:AJ:62:ASP:CB	10:AJ:63:ARG:HA	2.50	0.42
11:AK:39:ARG:HB2	11:AK:48:MET:SD	2.60	0.42
11:AK:103:VAL:HG23	11:AK:104:LYS:N	2.32	0.42
12:AL:11:ALA:HA	12:AL:14:THR:HG21	2.02	0.42
12:AL:49:ARG:CZ	34:BA:1423:G:C5'	2.90	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:15:ARG:NE	13:AM:15:ARG:HA	2.35	0.42
13:AM:86:LYS:HB3	13:AM:87:ASP:H	1.59	0.42
13:AM:108:LYS:HG2	13:AM:109:GLY:N	2.35	0.42
13:AM:126:VAL:HA	13:AM:146:VAL:N	2.31	0.42
14:AN:63:LYS:NZ	14:AN:64:ILE:HG13	2.29	0.42
14:AN:110:THR:O	14:AN:111:GLU:HG2	2.19	0.42
15:AO:61:HIS:C	15:AO:64:ARG:NH1	2.78	0.42
16:AP:102:ALA:O	16:AP:103:GLU:C	2.60	0.42
17:AQ:3:ARG:C	17:AQ:7:ILE:HG12	2.44	0.42
18:AR:86:ALA:O	18:AR:90:VAL:CG2	2.68	0.42
18:AR:94:ASN:O	18:AR:96:ALA:N	2.52	0.42
18:AR:97:ASP:O	18:AR:101:ARG:NE	2.53	0.42
21:AU:4:ALA:CB	25:AY:21:ARG:NH2	2.77	0.42
21:AU:63:LYS:N	21:AU:72:LYS:HG2	2.24	0.42
22:AV:5:MET:HB3	22:AV:6:HIS:H	1.63	0.42
23:AW:16:SER:O	23:AW:17:ALA:C	2.61	0.42
24:AX:33:ALA:C	24:AX:35:ASN:H	2.26	0.42
24:AX:36:ILE:C	24:AX:37:LEU:HD23	2.43	0.42
25:AY:16:LEU:HD21	25:AY:59:LEU:HB2	2.01	0.42
26:AZ:2:PRO:O	26:AZ:39:ASP:HB2	2.20	0.42
27:Aa:12:ALA:HB1	27:Aa:13:ARG:H	1.59	0.42
27:Aa:58:ARG:N	27:Aa:61:ARG:HH11	2.17	0.42
28:Ab:34:PRO:HD3	28:Ab:40:LYS:NZ	2.35	0.42
28:Ab:41:PRO:HG2	28:Ab:44:THR:OG1	2.20	0.42
29:Ac:17:LYS:CE	29:Ac:50:ARG:HB2	2.50	0.42
30:Ad:21:ARG:O	30:Ad:28:ARG:N	2.52	0.42
31:Ae:3:LYS:HE2	31:Ae:59:LYS:HE2	1.97	0.42
31:Ae:15:LYS:C	31:Ae:22:VAL:HG13	2.42	0.42
31:Ae:34:TRP:CE3	31:Ae:36:LYS:HD3	2.54	0.42
34:BA:40:C:H2'	34:BA:41:G:O5'	2.20	0.42
34:BA:46:G:C4	34:BA:396:G:N1	2.88	0.42
34:BA:49:U:H5	34:BA:361:G:N2	2.14	0.42
34:BA:102:G:N3	34:BA:151:A:C2	2.88	0.42
34:BA:128:G:C5	34:BA:129:U:C4	3.07	0.42
34:BA:278:G:N2	34:BA:279:A:N6	2.67	0.42
34:BA:280:C:C1'	50:BU:38:ARG:CZ	2.98	0.42
34:BA:293:G:C2	34:BA:294:U:C6	3.07	0.42
34:BA:336:C:O2'	34:BA:337:C:H5'	2.20	0.42
34:BA:344:A:O2'	34:BA:345:C:OP1	2.38	0.42
34:BA:416:G:C2'	34:BA:417:C:C6	2.89	0.42
34:BA:468:A:H3'	34:BA:474:G:H8	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:720:C:H4'	51:BV:50:ILE:CG2	2.49	0.42
34:BA:723:U:O2	34:BA:723:U:C2'	2.68	0.42
34:BA:826:C:H2'	34:BA:827:U:H6	1.82	0.42
34:BA:874:G:C6	34:BA:875:C:C4	3.08	0.42
34:BA:938:A:O2'	34:BA:939:G:C5'	2.58	0.42
34:BA:975:A:H4'	34:BA:976:G:C5'	2.49	0.42
34:BA:993:G:C2	34:BA:1046:A:C2	3.08	0.42
34:BA:1068:G:O6	34:BA:1108:G:N3	2.53	0.42
34:BA:1087:G:H2'	34:BA:1088:G:H8	1.84	0.42
34:BA:1090:U:O2'	34:BA:1091:U:C5'	2.68	0.42
34:BA:1095:U:C2	34:BA:1096:C:C5	3.07	0.42
34:BA:1107:C:C3'	34:BA:1108:G:H5'	2.49	0.42
34:BA:1170:A:H3'	34:BA:1170:A:H8	1.83	0.42
34:BA:1202:G:O2'	34:BA:1203:C:O5'	2.38	0.42
34:BA:1250:A:N7	34:BA:1251:A:C5	2.88	0.42
34:BA:1268:A:N3	34:BA:1311:G:C2	2.88	0.42
34:BA:1290:G:C6	34:BA:1291:G:N7	2.88	0.42
34:BA:1298:C:N4	40:BK:114:ARG:CB	2.82	0.42
34:BA:1306:A:H3'	34:BA:1307:U:C5	2.55	0.42
35:BF:91:PRO:CB	35:BF:152:PHE:CD1	2.95	0.42
35:BF:115:LEU:O	35:BF:118:LEU:HD13	2.19	0.42
35:BF:171:ALA:C	35:BF:174:VAL:HB	2.42	0.42
36:BG:182:ILE:HG22	36:BG:183:ASP:H	1.83	0.42
36:BG:194:GLY:O	36:BG:196:LEU:CD2	2.68	0.42
37:BH:60:GLU:O	37:BH:61:LYS:C	2.62	0.42
37:BH:85:LYS:HB3	37:BH:85:LYS:HZ3	1.85	0.42
37:BH:191:ARG:O	37:BH:194:LEU:HD23	2.20	0.42
38:BI:37:ARG:C	38:BI:38:GLN:HG3	2.45	0.42
38:BI:107:ARG:HB3	38:BI:107:ARG:HH11	1.84	0.42
38:BI:109:ILE:CD1	38:BI:136:MET:SD	3.08	0.42
40:BK:10:ARG:HH11	40:BK:10:ARG:CB	2.33	0.42
40:BK:27:ILE:HA	40:BK:30:ILE:HD12	2.02	0.42
40:BK:108:ALA:O	40:BK:119:ARG:HG2	2.20	0.42
40:BK:146:GLU:HG3	40:BK:149:ARG:CZ	2.50	0.42
41:BL:1:MET:CG	41:BL:2:LEU:N	2.82	0.42
41:BL:10:LEU:CD2	41:BL:135:CYS:SG	3.04	0.42
41:BL:14:ARG:NE	41:BL:15:ASN:ND2	2.68	0.42
41:BL:35:ILE:O	41:BL:37:ARG:N	2.53	0.42
41:BL:65:TYR:CD2	41:BL:78:GLN:HA	2.55	0.42
42:BM:5:TYR:CZ	42:BM:18:PHE:CE2	3.08	0.42
42:BM:7:THR:CG2	42:BM:9:ARG:NH1	2.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:30:SER:OG	43:BN:81:THR:HA	2.19	0.42
44:BO:123:LYS:N	44:BO:126:ARG:HG3	2.34	0.42
45:BP:43:VAL:HG12	45:BP:44:THR:N	2.33	0.42
45:BP:62:SER:O	45:BP:64:TYR:N	2.53	0.42
46:BQ:14:ARG:O	46:BQ:45:VAL:HG21	2.20	0.42
47:BR:24:CYS:HA	47:BR:39:LEU:HA	2.01	0.42
48:BS:3:ILE:HA	48:BS:38:ARG:HH12	1.84	0.42
48:BS:53:HIS:CD2	48:BS:57:LEU:CD1	3.01	0.42
49:BT:26:ARG:HD3	49:BT:31:LYS:HZ3	1.83	0.42
50:BU:22:LEU:CD1	50:BU:40:LYS:C	2.92	0.42
50:BU:57:VAL:CB	50:BU:75:ARG:O	2.64	0.42
52:BW:36:ARG:C	52:BW:71:LEU:HB2	2.45	0.42
52:BW:77:THR:HG23	52:BW:78:ARG:HG2	2.01	0.42
53:BX:41:ILE:O	53:BX:91:LEU:CD1	2.68	0.42
53:BX:72:LEU:HD13	53:BX:77:ALA:HA	2.02	0.42
55:CA:16:HIS:O	57:CA:701:GCP:O5'	2.37	0.42
55:CA:41:ARG:CD	55:CA:42:VAL:HG13	2.50	0.42
55:CA:102:PHE:HA	55:CA:135:ALA:CA	2.49	0.42
55:CA:102:PHE:CD1	55:CA:132:ARG:CZ	3.02	0.42
55:CA:171:ILE:O	55:CA:172:ALA:HB3	2.20	0.42
55:CA:211:GLN:CB	55:CA:223:ILE:CG2	2.89	0.42
55:CA:539:THR:N	55:CA:540:GLY:CA	2.83	0.42
1:AA:26:G:N2	1:AA:27:G:C2	2.87	0.42
1:AA:37:C:H2'	1:AA:38:A:C8	2.54	0.42
1:AA:58:G:OP1	21:AU:75:ASP:N	2.53	0.42
1:AA:73:A:H8	1:AA:73:A:O5'	2.02	0.42
1:AA:104:U:OP2	1:AA:104:U:C6	2.73	0.42
1:AA:184:C:H2'	1:AA:185:U:H5	1.85	0.42
1:AA:270(A):A:C2	1:AA:270(X):G:N2	2.87	0.42
1:AA:270(L):U:O2	1:AA:270(M):U:C5	2.72	0.42
1:AA:303:U:H2'	1:AA:304:G:C5'	2.50	0.42
1:AA:317:G:C2'	1:AA:318:C:H5'	2.50	0.42
1:AA:410:G:C6	1:AA:418:G:C2	3.07	0.42
1:AA:447:A:C6	1:AA:473:G:H1'	2.54	0.42
1:AA:449:A:O3'	6:AF:52:LYS:HD3	2.20	0.42
1:AA:458:G:C2'	30:Ad:40:TRP:NE1	2.83	0.42
1:AA:522:G:C5	1:AA:523:C:C5	3.08	0.42
1:AA:541:C:C2'	1:AA:542:C:H6	2.30	0.42
1:AA:567:A:N1	1:AA:568:U:C2	2.86	0.42
1:AA:636:G:OP1	13:AM:132:LYS:HG3	2.19	0.42
1:AA:650:C:N3	1:AA:651:G:N3	2.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:651:G:C8	1:AA:652:C:C1'	3.03	0.42
1:AA:656:G:O2'	1:AA:657:U:O5'	2.38	0.42
1:AA:738:G:N7	1:AA:739:G:C2	2.87	0.42
1:AA:774:A:C8	1:AA:775:G:N7	2.88	0.42
1:AA:813:U:C5	13:AM:25:SER:CB	3.03	0.42
1:AA:830:G:H1'	1:AA:2448:A:N1	2.35	0.42
1:AA:833:U:C2'	1:AA:834:C:O5'	2.68	0.42
1:AA:858:U:OP1	24:AX:44:ARG:CZ	2.68	0.42
1:AA:863:A:N1	1:AA:864:G:C6	2.88	0.42
1:AA:909:A:C2	1:AA:912:C:H1'	2.54	0.42
1:AA:987:G:C5	1:AA:988:A:C8	3.08	0.42
1:AA:991:C:O4'	1:AA:1185:C:H2'	2.20	0.42
1:AA:1061:U:O2'	10:AJ:52:ILE:HG23	2.20	0.42
1:AA:1150:C:C2	1:AA:1151:G:C8	3.08	0.42
1:AA:1275:A:H1'	15:AO:12:ARG:HH21	1.85	0.42
1:AA:1292:U:N3	1:AA:1293:C:C5	2.88	0.42
1:AA:1410:G:C6	1:AA:1411:C:C4	3.08	0.42
1:AA:1419:A:H3'	1:AA:1420:U:N1	2.34	0.42
1:AA:1449:A:C6	1:AA:1449(A):G:C5	3.08	0.42
1:AA:1472:A:H61	1:AA:1518:C:N4	2.18	0.42
1:AA:1491:G:H2'	1:AA:1492:G:C3'	2.50	0.42
1:AA:1520:U:C3'	1:AA:1521:G:C5'	2.98	0.42
1:AA:1726:G:C5	1:AA:1727:U:C4	3.08	0.42
1:AA:1839:G:C1'	1:AA:1927:A:H5'	2.50	0.42
1:AA:1935:G:C5	1:AA:1962:C:C5	3.08	0.42
1:AA:1945:G:H5'	1:AA:1945:G:H8	1.84	0.42
1:AA:1964:G:C6	1:AA:1967:C:H5	2.38	0.42
1:AA:1988:C:C2	1:AA:1989:G:C8	3.08	0.42
1:AA:2000:G:N1	1:AA:2001:A:C5	2.88	0.42
1:AA:2083:G:C2	1:AA:2084:C:N3	2.88	0.42
1:AA:2086:U:H3	1:AA:2233:U:H3	1.68	0.42
1:AA:2169:A:N1	1:AA:2170:A:C6	2.88	0.42
1:AA:2236:C:C5'	1:AA:2236:C:H6	2.33	0.42
1:AA:2236:C:C5	1:AA:2237:G:C5	3.08	0.42
1:AA:2279:G:N3	1:AA:2280:G:C8	2.88	0.42
1:AA:2285:C:H4'	1:AA:2288:A:C6	2.55	0.42
1:AA:2287:A:H2	1:AA:2346:A:N6	2.18	0.42
1:AA:2302:G:C2	1:AA:2303:G:C8	3.08	0.42
1:AA:2338:G:C6	1:AA:2339:G:N7	2.88	0.42
1:AA:2350:C:H2'	1:AA:2351:G:O5'	2.20	0.42
1:AA:2361:A:C4	1:AA:2362:G:C8	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2389:G:H5''	1:AA:2390:U:H6	1.84	0.42
1:AA:2458:G:HO2'	1:AA:2459:A:C5'	2.33	0.42
1:AA:2474:C:H2'	1:AA:2475:C:O5'	2.20	0.42
1:AA:2483:C:O2	1:AA:2483:C:C2'	2.67	0.42
1:AA:2511:U:C4	1:AA:2512:C:C4	3.07	0.42
1:AA:2512:C:O4'	5:AE:139:GLY:HA3	2.20	0.42
1:AA:2580:U:H2'	1:AA:2581:G:C8	2.54	0.42
1:AA:2644:G:N1	1:AA:2645:G:C2	2.88	0.42
1:AA:2681:C:H5	1:AA:2727:G:N2	2.15	0.42
1:AA:2714:G:C6	1:AA:2715:C:C5	3.08	0.42
1:AA:2797:U:C3'	1:AA:2797:U:C6	3.03	0.42
2:AB:25:A:C2	2:AB:26:A:H1'	2.55	0.42
2:AB:44:G:H1'	2:AB:47:C:H42	1.85	0.42
2:AB:85:G:C4	2:AB:86:G:C8	3.08	0.42
3:AC:7:TYR:CE1	3:AC:10:LEU:HG	2.55	0.42
3:AC:18:LYS:HG2	3:AC:20:TYR:N	2.20	0.42
3:AC:137:LEU:HD23	3:AC:138:PRO:CD	2.49	0.42
4:AD:27:THR:HG21	4:AD:82:ILE:CG2	2.50	0.42
4:AD:105:ILE:HG13	4:AD:106:ILE:CD1	2.49	0.42
4:AD:133:LEU:HD12	4:AD:186:HIS:C	2.45	0.42
4:AD:146:GLU:HA	4:AD:154:LYS:O	2.20	0.42
4:AD:163:ALA:HA	4:AD:175:LEU:HD21	2.01	0.42
4:AD:182:LEU:HG	4:AD:270:ILE:HD11	2.02	0.42
4:AD:248:SER:HA	4:AD:249:PRO:HD2	1.76	0.42
5:AE:6:GLY:O	5:AE:26:ILE:CG2	2.66	0.42
5:AE:144:ARG:O	5:AE:144:ARG:CG	2.66	0.42
6:AF:34:TRP:HA	6:AF:34:TRP:HE3	1.77	0.42
6:AF:93:LYS:CE	6:AF:95:ARG:HG2	2.43	0.42
6:AF:116:ASP:O	6:AF:119:ARG:CD	2.68	0.42
6:AF:138:GLU:H	6:AF:138:GLU:HG2	1.43	0.42
6:AF:173:VAL:HG22	6:AF:174:VAL:N	2.33	0.42
6:AF:197:ASP:C	6:AF:200:GLU:HG3	2.45	0.42
6:AF:200:GLU:CD	6:AF:201:VAL:N	2.76	0.42
7:AG:75:LYS:HG2	7:AG:85:GLY:H	1.85	0.42
7:AG:108:ASN:OD1	7:AG:177:GLY:HA2	2.19	0.42
8:AH:98:LEU:C	8:AH:100:GLY:N	2.77	0.42
8:AH:139:GLN:O	8:AH:143:GLN:CG	2.68	0.42
11:AK:77:GLY:O	11:AK:78:TYR:O	2.37	0.42
12:AL:4:PRO:C	12:AL:22:ILE:O	2.62	0.42
12:AL:94:ARG:HG2	12:AL:96:THR:N	2.35	0.42
14:AN:34:LEU:O	14:AN:103:MET:O	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:128:LYS:C	14:AN:129:THR:HG23	2.44	0.42
15:AO:32:GLY:C	15:AO:115:GLU:HB2	2.31	0.42
16:AP:17:ARG:O	16:AP:20:ARG:HG2	2.20	0.42
16:AP:40:ILE:HD12	16:AP:40:ILE:N	2.32	0.42
17:AQ:64:ARG:O	17:AQ:65:LYS:O	2.37	0.42
18:AR:40:PHE:HD1	18:AR:40:PHE:H	1.66	0.42
18:AR:61:TRP:O	18:AR:64:ARG:N	2.53	0.42
18:AR:105:VAL:HG12	18:AR:106:PHE:H	1.84	0.42
18:AR:111:GLU:O	18:AR:114:LYS:HE3	2.20	0.42
19:AS:67:GLY:HA2	19:AS:94:LEU:CA	2.49	0.42
20:AT:27:LYS:CB	20:AT:31:GLU:OE2	2.68	0.42
20:AT:98:LYS:NZ	20:AT:98:LYS:CB	2.82	0.42
21:AU:84:ALA:HB3	21:AU:85:PRO:CD	2.42	0.42
22:AV:19:LYS:HZ2	22:AV:39:VAL:HG12	1.85	0.42
23:AW:30:ASN:HA	23:AW:89:PHE:CE1	2.55	0.42
23:AW:103:ARG:O	23:AW:138:GLU:HA	2.20	0.42
27:Aa:21:VAL:HG13	27:Aa:23:GLU:CG	2.50	0.42
28:Ab:36:CYS:HB2	28:Ab:37:LYS:CE	2.50	0.42
29:Ac:17:LYS:CE	29:Ac:48:VAL:CG1	2.98	0.42
29:Ac:19:ARG:O	29:Ac:20:ASN:CB	2.68	0.42
31:Ae:27:THR:N	31:Ae:44:LYS:NZ	2.65	0.42
32:Af:1:MET:HG2	32:Af:2:LYS:N	2.35	0.42
32:Af:7:VAL:HG21	32:Af:36:GLN:CD	2.45	0.42
34:BA:24:U:O2'	34:BA:25:C:H5'	2.20	0.42
34:BA:38:G:N3	34:BA:397:A:C6	2.86	0.42
34:BA:51:A:N1	34:BA:353:A:C2	2.87	0.42
34:BA:101:A:N3	34:BA:102:G:C8	2.88	0.42
34:BA:145:G:C6	34:BA:178:C:N4	2.88	0.42
34:BA:170:U:H2'	34:BA:170:U:O2	2.20	0.42
34:BA:253:U:H2'	34:BA:254:G:H8	1.85	0.42
34:BA:254:G:N3	34:BA:255:G:C8	2.88	0.42
34:BA:266:G:O2'	34:BA:268:C:OP2	2.30	0.42
34:BA:273:A:C1'	50:BU:16:GLN:OE1	2.66	0.42
34:BA:307:C:O2	34:BA:307:C:C2'	2.65	0.42
34:BA:392:G:C4	34:BA:393:A:C8	3.08	0.42
34:BA:537:G:O2'	34:BA:538:G:H5'	2.20	0.42
34:BA:619:U:O2	34:BA:619:U:H2'	2.20	0.42
34:BA:724:G:N2	34:BA:725:G:N9	2.68	0.42
34:BA:738:C:C4	34:BA:739:C:N4	2.88	0.42
34:BA:748:C:O2'	34:BA:749:C:O4'	2.38	0.42
34:BA:760:G:H5'	34:BA:761:G:OP2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:811:C:C5	34:BA:812:C:O2	2.73	0.42
34:BA:812:C:O2	34:BA:813:U:C5	2.67	0.42
34:BA:826:C:O5'	34:BA:826:C:H6	2.02	0.42
34:BA:865:A:C5	34:BA:866:C:O2	2.73	0.42
34:BA:947:G:O2'	34:BA:948:C:C5'	2.61	0.42
34:BA:1044:A:C6	34:BA:1045:C:H1'	2.54	0.42
34:BA:1068:G:C8	34:BA:1094:G:N7	2.87	0.42
34:BA:1107:C:P	36:BG:172:ARG:HG2	2.60	0.42
34:BA:1251:A:C2	34:BA:1252:A:N1	2.88	0.42
34:BA:1287:A:H2	34:BA:1370:G:H21	1.67	0.42
34:BA:1321:C:H2'	34:BA:1322:C:C5	2.54	0.42
34:BA:1410:G:N2	34:BA:1411:C:C2	2.88	0.42
34:BA:1422:G:N3	34:BA:1423:G:C8	2.88	0.42
34:BA:1518:A:C6	34:BA:1519:A:N6	2.88	0.42
35:BF:17:PHE:CD1	35:BF:17:PHE:C	2.98	0.42
35:BF:43:ASP:O	35:BF:44:LEU:O	2.38	0.42
35:BF:112:VAL:O	35:BF:116:GLU:OE2	2.38	0.42
35:BF:118:LEU:CD2	35:BF:118:LEU:C	2.93	0.42
36:BG:16:ARG:O	36:BG:17:ASP:CG	2.63	0.42
36:BG:66:VAL:O	36:BG:102:ASN:HB2	2.19	0.42
36:BG:97:LYS:O	36:BG:98:ASN:O	2.37	0.42
37:BH:3:ARG:C	37:BH:4:TYR:O	2.63	0.42
37:BH:101:LEU:HG	37:BH:102:ASP:N	2.35	0.42
37:BH:106:TYR:CZ	37:BH:112:VAL:C	2.98	0.42
38:BI:141:GLN:O	38:BI:142:LEU:CG	2.67	0.42
38:BI:151:LEU:HA	38:BI:151:LEU:HD23	1.59	0.42
38:BI:152:ARG:O	38:BI:152:ARG:HD3	2.19	0.42
39:BJ:62:TRP:CD1	51:BV:35:ARG:NH2	2.88	0.42
40:BK:34:GLY:O	40:BK:35:LYS:C	2.63	0.42
40:BK:75:VAL:HG13	40:BK:87:VAL:N	2.35	0.42
40:BK:81:GLY:C	40:BK:83:ALA:N	2.77	0.42
40:BK:93:PRO:O	40:BK:96:GLN:N	2.53	0.42
41:BL:45:ILE:HG13	41:BL:47:GLY:C	2.45	0.42
41:BL:102:ARG:CG	41:BL:102:ARG:HH11	2.32	0.42
42:BM:17:VAL:HG11	42:BM:81:ILE:HG12	2.02	0.42
42:BM:97:LYS:CE	42:BM:102:LEU:HD13	2.48	0.42
42:BM:121:ARG:HG2	42:BM:121:ARG:NH1	2.32	0.42
43:BN:94:VAL:CG1	43:BN:95:GLU:N	2.66	0.42
44:BO:29:ILE:CA	44:BO:44:SER:OG	2.68	0.42
44:BO:44:SER:O	44:BO:47:VAL:HB	2.20	0.42
44:BO:87:THR:HG22	44:BO:91:ARG:CZ	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:99:GLN:HA	44:BO:105:VAL:HG22	2.00	0.42
44:BO:114:VAL:CG2	44:BO:115:PRO:CD	2.98	0.42
44:BO:122:LYS:O	44:BO:124:LYS:N	2.53	0.42
45:BP:5:PRO:HG3	45:BP:15:ARG:NH2	2.35	0.42
45:BP:30:ALA:HB1	45:BP:31:PRO:CD	2.49	0.42
45:BP:84:LEU:CA	45:BP:104:VAL:HG11	2.50	0.42
45:BP:117:ARG:O	45:BP:121:GLY:CA	2.68	0.42
46:BQ:50:GLU:HG3	46:BQ:54:VAL:CG2	2.50	0.42
48:BS:36:ILE:HD11	48:BS:60:VAL:HA	2.02	0.42
49:BT:74:LEU:HD23	49:BT:74:LEU:HA	1.82	0.42
50:BU:10:VAL:HG11	50:BU:52:LYS:C	2.45	0.42
51:BV:47:THR:C	51:BV:49:LYS:HE2	2.44	0.42
52:BW:13:ASP:HA	52:BW:16:LEU:HB3	2.01	0.42
52:BW:40:ILE:C	52:BW:41:VAL:HG22	2.45	0.42
53:BX:24:LEU:HB2	53:BX:25:ARG:H	1.67	0.42
53:BX:57:ARG:C	53:BX:59:ALA:H	2.28	0.42
54:BY:25:LYS:CD	54:BY:25:LYS:O	2.68	0.42
55:CA:91:MET:O	55:CA:225:ARG:NH2	2.53	0.42
55:CA:126:VAL:HA	55:CA:163:VAL:CB	2.43	0.42
55:CA:145:PHE:C	55:CA:147:LEU:H	2.28	0.42
55:CA:170:GLY:CA	55:CA:182:ASP:HB3	2.43	0.42
55:CA:240:ILE:HB	55:CA:286:ASP:OD1	2.20	0.42
55:CA:407:VAL:HG23	55:CA:436:ARG:CA	2.50	0.42
55:CA:468:THR:OG1	55:CA:469:PHE:CD1	2.72	0.42
55:CA:540:GLY:HA3	55:CA:541:LYS:HA	1.80	0.42
1:AA:28:A:C3'	1:AA:29:U:H5'	2.50	0.41
1:AA:281:G:O2'	1:AA:282:A:C5'	2.68	0.41
1:AA:349:G:H2'	1:AA:349:G:N3	2.35	0.41
1:AA:357:A:C5	1:AA:358:U:C5	3.08	0.41
1:AA:431:U:H6	1:AA:431:U:O5'	2.03	0.41
1:AA:454:A:O3'	1:AA:455:C:O4'	2.38	0.41
1:AA:491:G:H2'	1:AA:492:A:O4'	2.19	0.41
1:AA:494:G:H5'	20:AT:7:ALA:CA	2.45	0.41
1:AA:563:G:C4	1:AA:2018:G:C2	3.08	0.41
1:AA:570:G:N2	1:AA:2498:C:O2'	2.52	0.41
1:AA:626:U:H4'	1:AA:653:A:C2	2.55	0.41
1:AA:659:C:C4'	6:AF:102:PRO:HD3	2.50	0.41
1:AA:669:G:C5	1:AA:801:G:N1	2.88	0.41
1:AA:677:A:C4	1:AA:678:C:C5	3.08	0.41
1:AA:677:A:O2'	1:AA:2071:A:H5'	2.20	0.41
1:AA:696:G:C4	1:AA:697:C:C5	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:703:U:H2'	1:AA:704:G:O4'	2.19	0.41
1:AA:726:G:H5''	1:AA:727:A:OP1	2.20	0.41
1:AA:738:G:C6	1:AA:759:G:O6	2.73	0.41
1:AA:752:A:H61	1:AA:1781:C:H1'	1.81	0.41
1:AA:790:C:C6	1:AA:790:C:C3'	3.03	0.41
1:AA:821:A:C8	1:AA:946:G:C4	3.08	0.41
1:AA:833:U:O2'	13:AM:49:ARG:HD3	2.20	0.41
1:AA:843:G:C2	1:AA:936:C:N3	2.88	0.41
1:AA:904:C:H2'	1:AA:905:U:H5'	2.00	0.41
1:AA:915:C:C2'	1:AA:916:G:H8	2.28	0.41
1:AA:944:G:O6	13:AM:35:HIS:NE2	2.53	0.41
1:AA:957:A:C5	1:AA:959:A:N7	2.87	0.41
1:AA:969:U:OP1	26:AZ:20:LYS:NZ	2.53	0.41
1:AA:1057:A:H62	1:AA:1086:A:C2'	2.29	0.41
1:AA:1058:G:C2'	1:AA:1059:G:H5''	2.50	0.41
1:AA:1072:C:O2'	1:AA:1093:G:C5	2.71	0.41
1:AA:1182:A:H3'	1:AA:1183:G:C3'	2.28	0.41
1:AA:1193:G:H2'	1:AA:1194:A:O4'	2.20	0.41
1:AA:1225:C:N3	1:AA:1226:G:C2	2.88	0.41
1:AA:1284:A:C6	1:AA:1285:G:C2	3.08	0.41
1:AA:1364:G:O5'	1:AA:1809:A:N1	2.53	0.41
1:AA:1399:C:OP1	21:AU:53:LYS:NZ	2.52	0.41
1:AA:1406:U:O2	1:AA:1407:C:C6	2.72	0.41
1:AA:1489:U:H4'	1:AA:1490:A:OP2	2.20	0.41
1:AA:1540:G:H2'	1:AA:1541:U:H4'	2.02	0.41
1:AA:1560:G:C5	1:AA:1561:G:C5	3.07	0.41
1:AA:1619:G:N2	30:Ad:3:ARG:NH1	2.68	0.41
1:AA:1655:A:H2'	1:AA:1656:C:C1'	2.50	0.41
1:AA:1674:G:H21	1:AA:1676:A:H61	1.67	0.41
1:AA:1684:C:N3	1:AA:1705:G:C2	2.88	0.41
1:AA:1767:C:N3	1:AA:1768:U:C5	2.88	0.41
1:AA:1853:A:H8	1:AA:1853:A:OP2	2.03	0.41
1:AA:1913:A:C8	34:BA:1494:G:H5''	2.55	0.41
1:AA:1914:C:C4	1:AA:1915:U:C4	3.08	0.41
1:AA:1932:A:N6	1:AA:1933:G:C6	2.88	0.41
1:AA:1933:G:H21	1:AA:1974:C:C5'	2.08	0.41
1:AA:1952:A:H2'	1:AA:1953:A:O4'	2.20	0.41
1:AA:2015:A:H2'	1:AA:2016:U:H6	1.85	0.41
1:AA:2033:A:C2'	1:AA:2034:U:O5'	2.68	0.41
1:AA:2096:U:C2	1:AA:2097:C:H5	2.37	0.41
1:AA:2340:G:C2	1:AA:2341:G:C8	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2423:U:O2'	1:AA:2425:A:H5'	2.20	0.41
1:AA:2570:G:N2	1:AA:2571:C:C1'	2.83	0.41
1:AA:2681:C:C2'	1:AA:2682:U:H5'	2.45	0.41
1:AA:2707:G:O2'	15:AO:68:ARG:HG3	2.20	0.41
1:AA:2776:A:C4	1:AA:2778:A:C8	3.08	0.41
1:AA:2784:C:O2'	5:AE:36:ARG:NH1	2.53	0.41
1:AA:2822:G:OP2	1:AA:2822:G:C8	2.73	0.41
1:AA:2872:G:N2	1:AA:2873:A:C6	2.88	0.41
1:AA:2899:G:H2'	1:AA:2900:A:H8	1.84	0.41
2:AB:46:A:O2'	2:AB:47:C:C5'	2.68	0.41
2:AB:82:G:C2'	2:AB:83:G:OP2	2.67	0.41
3:AC:99:ILE:O	3:AC:103:ILE:HG13	2.19	0.41
4:AD:23:GLU:HB3	4:AD:205:VAL:H	1.84	0.41
4:AD:160:GLY:O	4:AD:162:SER:N	2.52	0.41
4:AD:248:SER:O	4:AD:248:SER:OG	2.38	0.41
5:AE:22:PRO:HA	5:AE:185:LYS:N	2.34	0.41
6:AF:4:VAL:O	6:AF:4:VAL:HG12	2.20	0.41
6:AF:29:ASN:ND2	6:AF:30:PRO:N	2.67	0.41
6:AF:37:VAL:CA	6:AF:184:TYR:CZ	2.99	0.41
6:AF:37:VAL:C	6:AF:184:TYR:HH	2.27	0.41
6:AF:163:VAL:HG21	6:AF:195:ASP:CG	2.45	0.41
7:AG:1:MET:O	7:AG:3:LEU:N	2.52	0.41
7:AG:4:ASP:HA	7:AG:7:LEU:CD1	2.47	0.41
7:AG:19:LEU:HA	7:AG:22:ARG:HG2	2.02	0.41
7:AG:44:GLY:CA	7:AG:72:ARG:CB	2.97	0.41
7:AG:125:PHE:HD2	7:AG:129:GLY:CA	2.33	0.41
8:AH:119:GLU:O	8:AH:120:GLY:C	2.61	0.41
8:AH:152:ARG:CG	8:AH:152:ARG:NH1	2.83	0.41
11:AK:39:ARG:CG	11:AK:40:PRO:HD2	2.50	0.41
11:AK:39:ARG:O	11:AK:42:TRP:HB3	2.19	0.41
11:AK:57:ALA:HB1	11:AK:99:LEU:HD23	2.02	0.41
12:AL:8:LEU:HD11	12:AL:82:ASN:CA	2.43	0.41
12:AL:47:ILE:HD12	12:AL:52:VAL:HG13	1.95	0.41
12:AL:52:VAL:O	12:AL:53:LYS:CG	2.65	0.41
12:AL:86:ILE:HD13	12:AL:90:GLN:CG	2.50	0.41
13:AM:32:THR:OG1	13:AM:33:ARG:N	2.53	0.41
13:AM:50:ARG:O	13:AM:51:PHE:C	2.62	0.41
15:AO:102:GLU:OE1	15:AO:102:GLU:CA	2.68	0.41
16:AP:76:LYS:C	16:AP:80:LEU:HD23	2.45	0.41
17:AQ:39:ARG:HH11	34:BA:345:C:C5'	2.33	0.41
17:AQ:65:LYS:CE	17:AQ:75:ILE:CD1	2.98	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:17:ILE:HG12	18:AR:17:ILE:H	1.60	0.41
19:AS:35:LEU:O	19:AS:61:VAL:HG22	2.18	0.41
19:AS:83:ARG:CG	19:AS:84:LYS:N	2.83	0.41
21:AU:15:GLU:O	21:AU:18:TYR:HB2	2.19	0.41
21:AU:27:THR:HG22	21:AU:80:ILE:HD12	2.02	0.41
21:AU:47:PHE:C	21:AU:49:VAL:HG13	2.44	0.41
22:AV:13:VAL:HA	22:AV:73:ARG:HH21	1.83	0.41
22:AV:46:LYS:HZ3	22:AV:47:LYS:HG3	1.85	0.41
22:AV:76:CYS:HB2	22:AV:100:ALA:CB	2.50	0.41
23:AW:41:LEU:O	23:AW:44:PHE:CB	2.63	0.41
24:AX:44:ARG:HE	24:AX:77:ARG:NE	2.17	0.41
25:AY:43:HIS:O	25:AY:44:LYS:C	2.63	0.41
27:Aa:23:GLU:HB2	27:Aa:24:THR:H	1.51	0.41
27:Aa:59:PHE:HE1	27:Aa:60:GLN:HE21	1.68	0.41
29:Ac:33:LYS:CE	29:Ac:34:LEU:HD23	2.50	0.41
30:Ad:21:ARG:CB	30:Ad:21:ARG:CZ	2.96	0.41
30:Ad:42:LEU:HD22	30:Ad:44:PRO:CG	2.50	0.41
31:Ae:3:LYS:O	31:Ae:4:MET:HB2	2.20	0.41
31:Ae:22:VAL:HG12	31:Ae:23:VAL:H	1.69	0.41
31:Ae:26:LYS:C	31:Ae:28:GLY:N	2.77	0.41
31:Ae:60:LEU:C	31:Ae:60:LEU:CD2	2.87	0.41
31:Ae:63:PRO:CG	31:Ae:64:TYR:H	2.33	0.41
32:Af:9:ARG:CZ	32:Af:16:VAL:HB	2.50	0.41
34:BA:20:U:H5'	34:BA:572:A:C6	2.49	0.41
34:BA:32:A:OP1	34:BA:398:C:H1'	2.20	0.41
34:BA:44:G:C6	34:BA:399:G:N1	2.87	0.41
34:BA:67:C:C1'	34:BA:172:A:H1'	2.49	0.41
34:BA:73:G:N2	34:BA:74:C:C2	2.88	0.41
34:BA:131:C:H2'	34:BA:131:C:O2	2.19	0.41
34:BA:149:A:C2	34:BA:150:C:C4	3.08	0.41
34:BA:160:A:H2	34:BA:343:U:H1'	1.84	0.41
34:BA:166:G:O2'	34:BA:167:G:C5'	2.59	0.41
34:BA:192:U:C4'	53:BX:103:GLY:N	2.83	0.41
34:BA:254:G:N2	50:BU:16:GLN:OE1	2.53	0.41
34:BA:354:G:C2	34:BA:355:C:C4	3.08	0.41
34:BA:362:G:C8	45:BP:34:ARG:NH2	2.65	0.41
34:BA:424:G:H8	34:BA:424:G:O5'	2.02	0.41
34:BA:485:G:O2'	34:BA:486:U:C6	2.70	0.41
34:BA:552:U:H2'	34:BA:553:A:O4'	2.19	0.41
34:BA:563:A:O2'	34:BA:566:G:C2'	2.68	0.41
34:BA:584:G:C6	34:BA:585:G:N7	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:594:G:N2	34:BA:596:C:H41	2.18	0.41
34:BA:673:G:O2'	34:BA:674:G:C8	2.73	0.41
34:BA:748:C:H6	34:BA:748:C:C3'	2.28	0.41
34:BA:971:G:O5'	34:BA:1231:G:N2	2.53	0.41
34:BA:980:C:H1'	47:BR:19:ARG:HA	2.01	0.41
34:BA:1009:G:C2	34:BA:1010:G:C8	3.08	0.41
34:BA:1055:A:N6	34:BA:1206:G:C8	2.88	0.41
34:BA:1076:C:O2'	34:BA:1077:G:H5'	2.19	0.41
34:BA:1080:A:N7	34:BA:1081:G:C1'	2.82	0.41
34:BA:1191:A:H5''	36:BG:4:LYS:CE	2.50	0.41
34:BA:1226:C:N3	46:BQ:104:ARG:CG	2.71	0.41
34:BA:1231:G:H2'	34:BA:1232:U:H6	1.84	0.41
34:BA:1245:A:C4	34:BA:1246:C:C5	3.08	0.41
34:BA:1320:C:H1'	52:BW:71:LEU:O	2.20	0.41
34:BA:1336:C:O2'	34:BA:1337:G:OP2	2.37	0.41
34:BA:1395:C:H3'	34:BA:1395:C:P	2.60	0.41
34:BA:1405:G:O2'	34:BA:1519:A:H5'	2.19	0.41
34:BA:1414:U:C4	34:BA:1487:G:O6	2.67	0.41
34:BA:1431:C:N4	34:BA:1469:G:N1	2.56	0.41
34:BA:1475:G:H2'	34:BA:1476:G:H8	1.85	0.41
35:BF:9:GLU:CG	35:BF:10:LEU:N	2.83	0.41
35:BF:12:GLU:C	35:BF:14:GLY:N	2.70	0.41
35:BF:49:GLU:H	35:BF:49:GLU:CD	2.28	0.41
35:BF:88:ALA:O	35:BF:222:ILE:HD13	2.19	0.41
35:BF:117:GLU:CD	35:BF:117:GLU:C	2.88	0.41
36:BG:12:LEU:O	36:BG:17:ASP:CG	2.62	0.41
36:BG:59:ARG:HG2	36:BG:59:ARG:HH11	1.85	0.41
36:BG:138:VAL:HG12	36:BG:149:ALA:HB3	2.01	0.41
36:BG:180:ALA:O	36:BG:181:ASN:C	2.62	0.41
36:BG:182:ILE:HD11	36:BG:203:PHE:CE1	2.54	0.41
37:BH:22:LYS:HB3	37:BH:26:CYS:HB3	2.02	0.41
37:BH:159:ARG:HG2	37:BH:159:ARG:NH1	2.35	0.41
38:BI:9:LYS:HD3	38:BI:108:ALA:HB1	2.02	0.41
38:BI:50:GLU:HB2	38:BI:53:LEU:HG	2.01	0.41
38:BI:72:GLN:NE2	38:BI:144:THR:CA	2.83	0.41
40:BK:64:GLN:HB3	40:BK:128:ALA:CB	2.45	0.41
41:BL:87:SER:O	41:BL:88:LYS:C	2.63	0.41
41:BL:119:LEU:HB3	41:BL:123:GLU:OE2	2.20	0.41
41:BL:121:ASP:HB3	41:BL:122:ARG:H	1.39	0.41
42:BM:33:PHE:CE2	42:BM:43:ALA:O	2.73	0.41
43:BN:47:PHE:HZ	43:BN:65:LEU:CB	2.33	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:15:ALA:HA	44:BO:78:GLN:NE2	2.35	0.41
44:BO:44:SER:HB2	44:BO:47:VAL:HG23	2.02	0.41
44:BO:123:LYS:O	44:BO:124:LYS:C	2.61	0.41
45:BP:37:CYS:SG	45:BP:78:GLN:O	2.78	0.41
45:BP:58:VAL:CG1	45:BP:59:ARG:H	2.32	0.41
45:BP:80:HIS:CB	55:CA:327:THR:N	2.59	0.41
45:BP:86:ARG:NH2	45:BP:119:LYS:HD3	2.35	0.41
47:BR:4:LYS:HA	47:BR:7:ILE:CD1	2.49	0.41
48:BS:13:GLN:O	48:BS:15:PHE:N	2.53	0.41
48:BS:68:ARG:O	48:BS:69:TYR:C	2.61	0.41
49:BT:8:ARG:HH12	49:BT:11:SER:C	2.28	0.41
49:BT:35:LYS:NZ	49:BT:37:GLY:CA	2.83	0.41
50:BU:5:VAL:O	50:BU:6:LEU:CB	2.68	0.41
50:BU:21:VAL:HG23	50:BU:42:TYR:C	2.45	0.41
50:BU:68:ARG:N	50:BU:70:ARG:CZ	2.83	0.41
51:BV:18:ARG:HH21	51:BV:21:LYS:CG	2.33	0.41
51:BV:62:GLU:C	51:BV:66:LEU:CD2	2.93	0.41
51:BV:71:LYS:O	51:BV:75:ILE:HG13	2.19	0.41
53:BX:25:ARG:O	53:BX:26:ASN:C	2.63	0.41
53:BX:49:ALA:HB3	53:BX:99:LEU:HG	2.01	0.41
55:CA:64:ILE:H	55:CA:65:LYS:HA	1.78	0.41
55:CA:266:ASP:CG	55:CA:267:LEU:H	2.26	0.41
55:CA:289:CYS:SG	55:CA:295:GLU:OE2	2.78	0.41
55:CA:300:LEU:HB2	55:CA:301:SER:O	2.19	0.41
55:CA:301:SER:C	55:CA:302:VAL:HG13	2.43	0.41
55:CA:317:PRO:HG2	55:CA:519:TYR:CB	2.50	0.41
55:CA:449:ILE:C	55:CA:451:PHE:N	2.74	0.41
1:AA:95:G:O2'	25:AY:42:ASN:CB	2.64	0.41
1:AA:119:A:O2'	1:AA:120:U:H3'	2.20	0.41
1:AA:149:A:C8	1:AA:149:A:C3'	2.99	0.41
1:AA:194:G:C6	1:AA:195:A:C6	3.09	0.41
1:AA:196:A:N6	1:AA:831:G:O2'	2.53	0.41
1:AA:203:C:C5	1:AA:204:A:N7	2.88	0.41
1:AA:227:A:H62	1:AA:2407:G:H8	1.68	0.41
1:AA:262:A:C4	1:AA:263:C:C6	3.08	0.41
1:AA:270(T):G:N1	1:AA:270(U):C:C4	2.88	0.41
1:AA:270(W):G:C5	1:AA:270(X):G:N7	2.88	0.41
1:AA:292:C:N4	1:AA:346:A:H62	2.19	0.41
1:AA:344:G:C2	1:AA:345:A:N6	2.88	0.41
1:AA:365:C:C4	1:AA:366:C:N4	2.88	0.41
1:AA:447:A:OP1	18:AR:5:LYS:NZ	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:450:G:O6	1:AA:453:C:O5'	2.37	0.41
1:AA:559:G:HO2'	1:AA:560:C:C5'	2.26	0.41
1:AA:569:U:H2'	1:AA:983:A:N6	2.35	0.41
1:AA:612:G:C2	1:AA:615:G:N2	2.88	0.41
1:AA:630:G:H2'	1:AA:631:A:O5'	2.21	0.41
1:AA:716:A:O2'	48:BS:44:LYS:CD	2.51	0.41
1:AA:728:G:H4'	1:AA:729:G:C8	2.55	0.41
1:AA:763:G:C5'	4:AD:211:ARG:CZ	2.98	0.41
1:AA:769:G:C6	1:AA:770:G:N7	2.88	0.41
1:AA:832:G:C5	1:AA:833:U:O4	2.73	0.41
1:AA:850:C:C5'	26:AZ:18:ASP:HB2	2.50	0.41
1:AA:861:A:N6	1:AA:917:A:N3	2.68	0.41
1:AA:910:A:H1'	1:AA:2264:C:O2'	2.20	0.41
1:AA:971:C:H2'	1:AA:972:G:O4'	2.20	0.41
1:AA:974(A):C:H1'	1:AA:1186:G:N2	2.35	0.41
1:AA:1212:G:C6	1:AA:1236:G:C6	3.08	0.41
1:AA:1266:G:OP1	28:Ab:19:ARG:NE	2.51	0.41
1:AA:1272:A:C6	1:AA:1618:A:N3	2.88	0.41
1:AA:1342:A:H8	1:AA:1342:A:O5'	2.04	0.41
1:AA:1410:G:N2	1:AA:1593:G:C4	2.88	0.41
1:AA:1500:G:C4	1:AA:1501:C:C5	3.08	0.41
1:AA:1517:G:C2	1:AA:1518:C:C2	3.08	0.41
1:AA:1571:A:N3	1:AA:1571:A:H2'	2.35	0.41
1:AA:1635:G:O2'	1:AA:1636:C:H5'	2.20	0.41
1:AA:1669:A:H2'	1:AA:1670:C:C5'	2.44	0.41
1:AA:1811:G:C2'	1:AA:1812:A:O4'	2.68	0.41
1:AA:1858:G:HO2'	1:AA:1859:A:C5'	2.32	0.41
1:AA:1899:G:H22	1:AA:1902:C:H41	1.62	0.41
1:AA:1957:C:O2	1:AA:1958:C:C6	2.72	0.41
1:AA:1971:A:C2	4:AD:240:ALA:N	2.85	0.41
1:AA:2010:G:OP1	20:AT:41:LYS:NZ	2.52	0.41
1:AA:2010:G:OP2	20:AT:41:LYS:HE2	2.20	0.41
1:AA:2087:G:H8	1:AA:2087:G:C5'	2.34	0.41
1:AA:2094:G:N7	1:AA:2095:C:C5	2.88	0.41
1:AA:2115:G:C4	1:AA:2117:A:N7	2.87	0.41
1:AA:2140:C:O2'	1:AA:2141:G:H5'	2.19	0.41
1:AA:2208:U:C4'	4:AD:151:LYS:HZ2	2.33	0.41
1:AA:2298:A:C2	1:AA:2321:G:N1	2.88	0.41
1:AA:2408:U:O2'	1:AA:2409:G:C5'	2.64	0.41
1:AA:2427:C:H4'	1:AA:2428:G:H5''	2.01	0.41
1:AA:2441:C:O2	1:AA:2441:C:C2'	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2505:G:C8	1:AA:2505:G:C3'	3.03	0.41
1:AA:2515:C:H2'	1:AA:2516:G:O5'	2.20	0.41
1:AA:2518:A:H3'	1:AA:2518:A:H8	1.84	0.41
1:AA:2543:G:C6	1:AA:2544:G:N1	2.88	0.41
1:AA:2612:C:O2	28:Ab:4:HIS:HB2	2.20	0.41
1:AA:2631:G:C5	1:AA:2632:A:C8	3.08	0.41
1:AA:2636:U:C4'	5:AE:79:ARG:NH1	2.80	0.41
1:AA:2683:C:C5	1:AA:2684:U:C5	3.08	0.41
1:AA:2714:G:N1	1:AA:2715:C:C4	2.87	0.41
1:AA:2719:G:C8	1:AA:2719:G:O5'	2.70	0.41
1:AA:2723:C:O3'	15:AO:2:ARG:N	2.53	0.41
1:AA:2843:G:C2	1:AA:2844:G:C8	3.08	0.41
1:AA:2856:C:O5'	1:AA:2856:C:H6	2.03	0.41
2:AB:63:G:C4	2:AB:64:C:C5	3.09	0.41
2:AB:76:G:OP2	23:AW:11:GLU:CA	2.46	0.41
3:AC:10:LEU:HD21	3:AC:220:PRO:CG	2.49	0.41
3:AC:19:ILE:HD12	3:AC:223:ARG:HH11	1.85	0.41
3:AC:38:ASP:CG	3:AC:178:ALA:HB3	2.41	0.41
3:AC:211:SER:CB	3:AC:213:TYR:CE1	3.03	0.41
4:AD:5:LYS:HB2	4:AD:82:ILE:CG1	2.51	0.41
4:AD:105:ILE:CG1	4:AD:106:ILE:N	2.82	0.41
4:AD:145:VAL:HG22	4:AD:191:ALA:HB1	2.02	0.41
4:AD:181:GLU:OE1	4:AD:270:ILE:HG22	2.20	0.41
5:AE:11:MET:CG	5:AE:12:THR:N	2.83	0.41
5:AE:118:LYS:HD3	5:AE:119:ARG:H	1.86	0.41
5:AE:152:LYS:CD	5:AE:152:LYS:C	2.92	0.41
6:AF:30:PRO:HG2	6:AF:31:HIS:N	2.35	0.41
6:AF:149:ASP:HA	6:AF:172:TRP:NE1	2.36	0.41
6:AF:201:VAL:CB	6:AF:205:ARG:HH21	2.32	0.41
7:AG:8:LYS:NZ	7:AG:176:LEU:HD11	2.23	0.41
7:AG:41:GLN:NE2	7:AG:155:MET:CA	2.75	0.41
7:AG:57:ALA:CB	7:AG:67:LYS:C	2.93	0.41
7:AG:67:LYS:HA	7:AG:68:PRO:HD2	1.91	0.41
8:AH:22:GLY:O	8:AH:37:VAL:HG22	2.20	0.41
8:AH:97:ARG:HA	8:AH:125:VAL:CG1	2.46	0.41
8:AH:151:ILE:O	8:AH:151:ILE:HG23	2.19	0.41
10:AJ:36:GLU:O	10:AJ:36:GLU:HG3	2.19	0.41
10:AJ:78:ILE:HD13	10:AJ:126:MET:C	2.44	0.41
11:AK:16:ILE:N	11:AK:16:ILE:CD1	2.71	0.41
11:AK:21:LYS:CB	11:AK:26:LEU:HD22	2.50	0.41
11:AK:34:LEU:HA	11:AK:49:GLY:CA	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:95:PRO:C	11:AK:97:ARG:N	2.75	0.41
13:AM:27:HIS:HB3	13:AM:28:GLY:H	1.63	0.41
14:AN:72:LYS:O	14:AN:93:TYR:HA	2.20	0.41
16:AP:18:ILE:HD12	16:AP:18:ILE:N	2.35	0.41
17:AQ:6:LEU:CD2	17:AQ:7:ILE:N	2.82	0.41
17:AQ:30:VAL:CG2	17:AQ:31:SER:H	2.33	0.41
18:AR:30:LYS:H	18:AR:30:LYS:CD	2.27	0.41
18:AR:55:ARG:H	18:AR:55:ARG:CD	2.16	0.41
19:AS:1:MET:SD	19:AS:15:GLU:OE1	2.78	0.41
19:AS:1:MET:HB3	19:AS:15:GLU:CG	2.50	0.41
19:AS:25:LEU:HG	19:AS:28:GLU:OE1	2.20	0.41
20:AT:24:ILE:HG22	20:AT:32:ALA:CA	2.49	0.41
21:AU:57:LEU:C	21:AU:58:HIS:HD1	2.28	0.41
22:AV:12:THR:HG21	22:AV:70:SER:C	2.45	0.41
23:AW:8:TYR:N	23:AW:8:TYR:HD1	2.15	0.41
23:AW:19:ARG:HE	23:AW:24:LEU:HD21	1.85	0.41
23:AW:48:PHE:CA	23:AW:54:HIS:HE1	2.32	0.41
24:AX:38:VAL:CG1	24:AX:45:PHE:CE2	3.03	0.41
24:AX:50:ASN:HB2	24:AX:81:VAL:HG23	1.98	0.41
25:AY:27:LEU:O	25:AY:28:MET:C	2.62	0.41
25:AY:48:LEU:HD12	25:AY:51:GLN:CD	2.45	0.41
26:AZ:40:THR:HG22	26:AZ:42:ALA:CB	2.50	0.41
27:Aa:59:PHE:HA	27:Aa:62:ARG:CZ	2.49	0.41
29:Ac:27:LYS:CD	29:Ac:29:ASN:HD21	2.33	0.41
30:Ad:17:GLY:C	30:Ad:21:ARG:HH22	2.27	0.41
32:Af:14:CYS:SG	32:Af:32:HIS:CD2	3.13	0.41
33:Ag:291:UNK:C	33:Ag:342:UNK:CB	2.95	0.41
34:BA:64:G:N2	34:BA:68:G:O6	2.42	0.41
34:BA:68:G:C4'	34:BA:171:A:C1'	2.98	0.41
34:BA:95:G:H2'	34:BA:96:G:O4'	2.20	0.41
34:BA:129(A):G:C2	34:BA:191(A):G:C8	3.07	0.41
34:BA:130:A:O2'	34:BA:190:G:N2	2.53	0.41
34:BA:186(A):C:O2'	34:BA:186(B):C:H5'	2.19	0.41
34:BA:319:G:C2'	34:BA:320:C:C5'	2.98	0.41
34:BA:671:G:N3	34:BA:671:G:H2'	2.35	0.41
34:BA:823:G:C6	34:BA:878:G:C6	3.07	0.41
34:BA:828:A:N3	34:BA:859:A:N3	2.69	0.41
34:BA:830:G:O6	34:BA:857:C:N4	2.54	0.41
34:BA:924:C:C2	34:BA:925:G:C8	3.08	0.41
34:BA:953:G:N1	34:BA:1229:A:C6	2.88	0.41
34:BA:981:U:C5	34:BA:981:U:OP2	2.73	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1026:G:O6	34:BA:1036:G:N2	2.53	0.41
34:BA:1091:U:C6	34:BA:1093:A:OP2	2.73	0.41
34:BA:1175:G:N1	34:BA:1176:A:C6	2.88	0.41
34:BA:1234:C:C4'	34:BA:1364:U:O2'	2.68	0.41
34:BA:1405:G:H4'	34:BA:1519:A:C5'	2.50	0.41
34:BA:1411:C:C2	34:BA:1412:C:C6	3.08	0.41
34:BA:1424:C:H2'	34:BA:1425:U:H6	1.85	0.41
34:BA:1487:G:C2	34:BA:1488:G:C8	3.08	0.41
34:BA:1537:U:C2	34:BA:1538:C:C5	3.08	0.41
35:BF:80:ILE:HD12	35:BF:208:ILE:CD1	2.50	0.41
35:BF:92:TYR:N	35:BF:92:TYR:HD2	2.18	0.41
35:BF:118:LEU:CD2	35:BF:142:LEU:HD12	2.49	0.41
35:BF:146:GLN:NE2	35:BF:150:SER:CB	2.72	0.41
36:BG:6:HIS:CD2	36:BG:8:ILE:HG22	2.55	0.41
36:BG:12:LEU:HD11	36:BG:18:TRP:CZ2	2.55	0.41
36:BG:30:ARG:O	36:BG:31:HIS:C	2.63	0.41
36:BG:70:VAL:HG12	36:BG:71:ALA:N	2.31	0.41
37:BH:13:ARG:HA	37:BH:32:ALA:HB2	2.02	0.41
37:BH:59:ARG:HH22	37:BH:66:ARG:NH1	2.07	0.41
37:BH:128:VAL:CG2	37:BH:133:VAL:N	2.82	0.41
37:BH:165:MET:HE2	37:BH:178:VAL:HG22	2.02	0.41
38:BI:111:GLU:HG3	38:BI:111:GLU:H	1.56	0.41
39:BJ:46:ARG:NH2	51:BV:37:VAL:HG21	2.35	0.41
39:BJ:76:ALA:CB	39:BJ:80:ARG:NH1	2.72	0.41
40:BK:51:GLN:HE22	40:BK:58:PRO:CD	2.33	0.41
41:BL:6:ILE:CD1	41:BL:85:ARG:CD	2.98	0.41
42:BM:3:GLN:HG3	42:BM:20:ARG:HD3	2.02	0.41
42:BM:9:ARG:HA	42:BM:76:ALA:HB1	2.01	0.41
43:BN:46:ARG:NE	43:BN:64:GLU:OE2	2.53	0.41
44:BO:33:THR:CA	44:BO:38:ASN:O	2.69	0.41
44:BO:99:GLN:CB	44:BO:105:VAL:HG11	2.39	0.41
45:BP:13:LYS:HE3	45:BP:13:LYS:HB2	1.94	0.41
46:BQ:74:VAL:O	46:BQ:78:ILE:HD12	2.20	0.41
47:BR:3:ARG:O	47:BR:3:ARG:CG	2.68	0.41
47:BR:16:PHE:HD2	47:BR:16:PHE:HA	1.80	0.41
49:BT:55:ARG:O	49:BT:59:TRP:HB2	2.19	0.41
49:BT:71:ARG:HB3	49:BT:71:ARG:HH11	1.85	0.41
50:BU:10:VAL:HB	50:BU:54:GLY:H	1.85	0.41
50:BU:14:LYS:O	50:BU:15:MET:C	2.63	0.41
51:BV:22:VAL:O	51:BV:23:LYS:C	2.63	0.41
51:BV:62:GLU:C	51:BV:64:ARG:N	2.77	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:41:VAL:O	52:BW:44:MET:HB2	2.19	0.41
53:BX:53:LEU:HB2	53:BX:100:ILE:CD1	2.50	0.41
53:BX:85:MET:HB2	53:BX:104:LEU:CD2	2.35	0.41
55:CA:18:LYS:HD3	55:CA:49:GLU:O	2.20	0.41
55:CA:48:LEU:CD2	55:CA:78:HIS:HE1	2.19	0.41
55:CA:102:PHE:HA	55:CA:135:ALA:HA	2.02	0.41
55:CA:117:PHE:O	55:CA:119:TYR:N	2.54	0.41
55:CA:153:ALA:HB1	55:CA:156:GLU:HB3	2.02	0.41
55:CA:311:PHE:O	55:CA:355:ALA:N	2.46	0.41
55:CA:378:PHE:H	55:CA:582:PRO:CG	2.03	0.41
55:CA:417:GLN:NE2	55:CA:418:ALA:N	2.68	0.41
1:AA:7:G:O6	1:AA:2896:C:C2	2.73	0.41
1:AA:21:A:H2'	1:AA:22:C:O4'	2.20	0.41
1:AA:140:A:C5	1:AA:141:A:C8	3.08	0.41
1:AA:189:G:N2	1:AA:206:U:C5	2.88	0.41
1:AA:196:A:H3'	1:AA:197:A:C5'	2.43	0.41
1:AA:202:U:H2'	1:AA:203:C:N1	2.36	0.41
1:AA:278:A:O4'	1:AA:278:A:OP1	2.38	0.41
1:AA:292:C:C3'	1:AA:293:U:C2	3.02	0.41
1:AA:311:A:H62	1:AA:329:G:C5'	2.28	0.41
1:AA:319:C:C4	1:AA:320:A:C5	3.09	0.41
1:AA:342:G:C2	1:AA:343:C:C2	3.08	0.41
1:AA:363(A):A:N3	1:AA:363(A):A:C2'	2.80	0.41
1:AA:373:U:C2'	1:AA:374:A:OP2	2.68	0.41
1:AA:434:U:H6	1:AA:434:U:P	2.43	0.41
1:AA:449:A:N3	1:AA:450:G:C8	2.88	0.41
1:AA:463:G:C2	1:AA:467:G:C5	3.09	0.41
1:AA:519:U:O5'	20:AT:75:TYR:HD2	2.02	0.41
1:AA:596:G:H3'	1:AA:597:U:H6	1.85	0.41
1:AA:596:G:H2'	1:AA:597:U:O4'	2.20	0.41
1:AA:693:C:H4'	1:AA:1354:A:H1'	2.03	0.41
1:AA:776:G:HO2'	1:AA:777:A:P	2.34	0.41
1:AA:826:U:OP1	1:AA:2428:G:C3'	2.63	0.41
1:AA:907:U:H6	1:AA:907:U:H5''	1.86	0.41
1:AA:918:A:H2'	2:AB:80:U:O2'	2.20	0.41
1:AA:1009:A:H5'	18:AR:59:ARG:HH12	1.84	0.41
1:AA:1122:G:N2	1:AA:1123:C:C2	2.88	0.41
1:AA:1238:G:N1	1:AA:1239:G:C4	2.89	0.41
1:AA:1267:U:HO2'	1:AA:1268:A:P	2.40	0.41
1:AA:1324:G:C2'	1:AA:1325:G:OP1	2.68	0.41
1:AA:1340:U:H2'	1:AA:1341:U:OP1	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1343:G:C2	1:AA:1405:U:C6	3.08	0.41
1:AA:1355:G:C2	1:AA:1377:G:C2	3.09	0.41
1:AA:1356:G:C5	1:AA:1357:U:C5	3.08	0.41
1:AA:1405:U:C2'	1:AA:1406:U:C5	2.87	0.41
1:AA:1475:G:H22	1:AA:1477:A:N6	2.08	0.41
1:AA:1562:A:H2'	1:AA:1563:G:H8	1.85	0.41
1:AA:1569:A:N1	1:AA:1570:A:C6	2.87	0.41
1:AA:1605:C:C5	1:AA:1606:G:C5	3.09	0.41
1:AA:1660:C:N3	1:AA:2001:A:C6	2.88	0.41
1:AA:1672:C:O2	1:AA:2582:G:O4'	2.38	0.41
1:AA:1675:C:H2'	1:AA:1676:A:O4'	2.19	0.41
1:AA:1710:C:H1'	1:AA:2858:C:N4	2.33	0.41
1:AA:1839:G:N3	1:AA:1839:G:C2'	2.75	0.41
1:AA:1908:C:N4	56:AA:3001:NMY:H82	2.35	0.41
1:AA:1951:U:C2	1:AA:1953:A:C5'	3.03	0.41
1:AA:1952:A:H1'	1:AA:2560:C:O2'	2.20	0.41
1:AA:1977:A:O2'	1:AA:1978:A:O5'	2.39	0.41
1:AA:2046:G:C1'	28:Ab:22:HIS:HD1	2.33	0.41
1:AA:2082:A:H2'	1:AA:2083:G:C8	2.55	0.41
1:AA:2160:G:O2'	1:AA:2161:C:C5'	2.68	0.41
1:AA:2230:G:N1	1:AA:2231:C:C4	2.89	0.41
1:AA:2280:G:C6	1:AA:2281:C:N4	2.88	0.41
1:AA:2318:G:C2'	1:AA:2319:G:OP2	2.68	0.41
1:AA:2323:G:N3	1:AA:2324:C:C5	2.88	0.41
1:AA:2329:G:H1	1:AA:2386:C:H41	1.57	0.41
1:AA:2336:A:H2	24:AX:57:PHE:CZ	2.38	0.41
1:AA:2370:G:C4	1:AA:2371:G:C8	3.08	0.41
1:AA:2440:C:C2'	1:AA:2441:C:O5'	2.67	0.41
1:AA:2556:C:H2'	1:AA:2557:G:C4'	2.50	0.41
1:AA:2610:C:C2'	1:AA:2611:U:OP2	2.68	0.41
1:AA:2616:C:H3'	1:AA:2617:C:C5	2.54	0.41
1:AA:2695:C:O2'	1:AA:2696:U:C6	2.74	0.41
1:AA:2708:G:C4'	15:AO:71:GLN:OE1	2.68	0.41
1:AA:2722:G:C6	1:AA:2723:C:C4	3.07	0.41
1:AA:2842:G:C2	1:AA:2843:G:H1'	2.55	0.41
1:AA:2893:G:C5'	1:AA:2894:G:OP1	2.66	0.41
2:AB:33:G:C2'	2:AB:34:U:H6	2.26	0.41
2:AB:68:C:C2'	2:AB:69:G:H8	2.34	0.41
2:AB:73:A:C5	2:AB:104:A:N3	2.88	0.41
3:AC:22:ILE:HD13	3:AC:189:ILE:CG2	2.50	0.41
3:AC:49:ILE:HG23	3:AC:208:PHE:HE1	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:137:LEU:HD23	3:AC:138:PRO:N	2.35	0.41
4:AD:43:ARG:H	4:AD:43:ARG:HG2	1.69	0.41
4:AD:61:LEU:CD1	4:AD:86:PRO:CD	2.95	0.41
4:AD:212:SER:O	4:AD:215:LEU:HB2	2.20	0.41
4:AD:263:ARG:O	4:AD:266:SER:CB	2.63	0.41
5:AE:13:ARG:NE	5:AE:21:VAL:N	2.68	0.41
5:AE:173:VAL:CG1	5:AE:184:VAL:CA	2.77	0.41
5:AE:184:VAL:O	5:AE:185:LYS:C	2.63	0.41
6:AF:57:VAL:HG12	6:AF:58:ALA:N	2.35	0.41
6:AF:106:ARG:CG	6:AF:107:LYS:HG3	2.49	0.41
7:AG:67:LYS:O	7:AG:67:LYS:CG	2.63	0.41
8:AH:35:VAL:HB	8:AH:72:ILE:HG23	2.02	0.41
8:AH:163:TYR:O	8:AH:164:TYR:C	2.63	0.41
11:AK:15:LEU:CD2	11:AK:137:LYS:HB3	2.49	0.41
11:AK:33:LEU:O	11:AK:35:ARG:CG	2.66	0.41
12:AL:22:ILE:CG1	12:AL:40:VAL:HG13	2.50	0.41
13:AM:33:ARG:O	13:AM:34:GLY:C	2.63	0.41
13:AM:76:LYS:HD3	13:AM:112:LEU:HB3	2.02	0.41
13:AM:124:LYS:HG2	13:AM:143:GLY:HA3	2.01	0.41
13:AM:124:LYS:HB3	13:AM:143:GLY:HA2	2.02	0.41
15:AO:39:PRO:C	15:AO:41:ALA:N	2.74	0.41
16:AP:23:ARG:HA	16:AP:23:ARG:HD2	1.25	0.41
16:AP:78:LEU:CD1	16:AP:79:ALA:N	2.70	0.41
17:AQ:28:VAL:HG23	17:AQ:94:ALA:CA	2.50	0.41
17:AQ:55:ASN:CA	17:AQ:62:THR:O	2.63	0.41
18:AR:88:ILE:HB	19:AS:52:VAL:HA	2.01	0.41
18:AR:115:ALA:O	18:AR:116:ALA:C	2.63	0.41
19:AS:70:ILE:HG22	19:AS:89:GLN:O	2.20	0.41
20:AT:3:ALA:HB3	20:AT:107:LEU:CB	2.42	0.41
20:AT:14:PRO:CA	20:AT:16:LYS:HZ1	2.31	0.41
20:AT:33:ARG:NH2	20:AT:48:ALA:HB2	2.21	0.41
20:AT:59:VAL:HA	20:AT:63:ASP:C	2.44	0.41
20:AT:72:LYS:O	20:AT:106:ILE:HG23	2.18	0.41
21:AU:68:ARG:NH1	21:AU:68:ARG:CB	2.84	0.41
21:AU:83:VAL:HG11	21:AU:87:GLN:O	2.20	0.41
22:AV:105:ALA:O	22:AV:107:ASP:N	2.53	0.41
23:AW:155:LEU:HA	23:AW:155:LEU:HD12	1.87	0.41
24:AX:46:LYS:HA	24:AX:47:PRO:HD3	1.77	0.41
24:AX:56:ASP:O	24:AX:57:PHE:CB	2.64	0.41
28:Ab:10:LYS:CD	28:Ab:15:ARG:CZ	2.99	0.41
30:Ad:43:THR:O	30:Ad:46:VAL:CA	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:44:G:C2	34:BA:399:G:C2	3.08	0.41
34:BA:66:G:O4'	34:BA:173:U:C4	2.72	0.41
34:BA:96:G:H2'	34:BA:97:U:C5	2.51	0.41
34:BA:120:A:C6	34:BA:122:G:C2	3.08	0.41
34:BA:136:C:C2	34:BA:137:C:C5	3.09	0.41
34:BA:321:A:HO2'	34:BA:322:C:H6	1.68	0.41
34:BA:343:U:H2'	34:BA:345:C:H5	1.86	0.41
34:BA:375:U:C2'	34:BA:376:G:C5'	2.99	0.41
34:BA:438:G:N3	34:BA:495:A:C8	2.88	0.41
34:BA:468:A:N6	34:BA:474:G:N1	2.68	0.41
34:BA:498:A:C8	34:BA:547:A:C6	3.08	0.41
34:BA:509:A:N7	34:BA:510:A:N6	2.68	0.41
34:BA:556:C:H2'	34:BA:557:G:O4'	2.19	0.41
34:BA:558:G:H5''	34:BA:559:A:C5'	2.51	0.41
34:BA:587:G:N3	34:BA:755:G:C6	2.88	0.41
34:BA:609:A:H2'	34:BA:610:G:H8	1.84	0.41
34:BA:685:G:H4'	44:BO:40:ILE:HA	2.02	0.41
34:BA:761:G:C1'	50:BU:103:GLY:O	2.69	0.41
34:BA:783:C:H2'	34:BA:784:C:H6	1.84	0.41
34:BA:867:G:N3	34:BA:868:C:C6	2.89	0.41
34:BA:937:A:C8	34:BA:938:A:N7	2.88	0.41
34:BA:951:G:C2'	34:BA:970:C:O2'	2.68	0.41
34:BA:958:A:N1	52:BW:55:LYS:C	2.77	0.41
34:BA:1057:G:C2'	34:BA:1058:G:O5'	2.67	0.41
34:BA:1084:G:N3	34:BA:1085:U:H5	2.14	0.41
34:BA:1193:G:C2'	34:BA:1194:U:O5'	2.67	0.41
34:BA:1258:G:O2'	34:BA:1259:C:O4'	2.33	0.41
34:BA:1262:C:O5'	34:BA:1262:C:H6	2.02	0.41
34:BA:1317:C:N3	34:BA:1318:A:C1'	2.83	0.41
34:BA:1347:G:H3'	42:BM:107:ARG:O	2.20	0.41
34:BA:1474:G:C6	34:BA:1475:G:N7	2.88	0.41
34:BA:1534:A:C2	34:BA:1535:C:C6	3.08	0.41
35:BF:22:LYS:HB2	35:BF:22:LYS:HE2	1.82	0.41
37:BH:4:TYR:CD2	37:BH:5:ILE:N	2.89	0.41
37:BH:97:LEU:O	37:BH:103:ASN:ND2	2.49	0.41
37:BH:107:ARG:HD2	37:BH:173:TRP:CH2	2.55	0.41
37:BH:150:GLU:C	37:BH:152:SER:N	2.76	0.41
37:BH:169:LYS:HA	37:BH:176:LEU:HD11	2.02	0.41
38:BI:45:PHE:HE1	38:BI:47:LYS:CD	2.33	0.41
38:BI:135:THR:HG22	38:BI:139:LEU:HD11	2.02	0.41
40:BK:12:LEU:HD11	40:BK:21:VAL:HB	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:30:ILE:HD11	40:BK:43:PHE:HD1	1.86	0.41
40:BK:37:ASN:C	40:BK:39:ALA:N	2.77	0.41
40:BK:41:ARG:CZ	40:BK:41:ARG:HB3	2.49	0.41
40:BK:49:ILE:HD12	40:BK:49:ILE:N	2.34	0.41
40:BK:91:VAL:O	40:BK:92:SER:C	2.63	0.41
40:BK:110:GLN:O	40:BK:111:ARG:C	2.63	0.41
40:BK:118:VAL:HG12	40:BK:122:HIS:CE1	2.55	0.41
40:BK:135:VAL:O	40:BK:138:LYS:CB	2.56	0.41
41:BL:20:TYR:HD1	41:BL:65:TYR:CZ	2.38	0.41
42:BM:24:GLY:C	42:BM:25:LYS:HD2	2.46	0.41
43:BN:5:ARG:HH11	43:BN:5:ARG:HG2	1.86	0.41
43:BN:16:LEU:HD12	43:BN:70:ARG:HG2	2.00	0.41
43:BN:33:GLN:O	43:BN:34:VAL:HG23	2.20	0.41
45:BP:6:THR:HG21	45:BP:9:GLN:OE1	2.21	0.41
45:BP:47:LYS:H	45:BP:48:PRO:HD3	1.77	0.41
45:BP:85:ILE:CG1	45:BP:87:GLY:H	2.19	0.41
48:BS:13:GLN:HE21	48:BS:13:GLN:HB3	1.66	0.41
50:BU:50:LYS:HB2	50:BU:50:LYS:HE3	1.83	0.41
51:BV:22:VAL:C	51:BV:24:ALA:H	2.29	0.41
53:BX:59:ALA:C	53:BX:61:SER:N	2.72	0.41
54:BY:5:ASP:O	54:BY:6:ARG:HG2	2.20	0.41
54:BY:19:GLY:C	54:BY:21:TYR:H	2.28	0.41
55:CA:34:SER:O	55:CA:35:ARG:HB3	2.21	0.41
55:CA:50:LYS:HD3	55:CA:50:LYS:O	2.19	0.41
55:CA:57:LEU:HB2	55:CA:254:VAL:CB	2.49	0.41
55:CA:73:VAL:HB	55:CA:74:ASP:C	2.45	0.41
55:CA:85:VAL:CG1	55:CA:88:VAL:CB	2.99	0.41
55:CA:207:MET:HE1	55:CA:224:GLY:N	2.35	0.41
55:CA:455:PHE:CE2	55:CA:465:LEU:CD2	3.03	0.41
1:AA:198:C:C6	1:AA:198:C:O5'	2.74	0.41
1:AA:213:A:N1	1:AA:214:G:N3	2.68	0.41
1:AA:235:U:O5'	1:AA:235:U:H6	2.03	0.41
1:AA:270(B):A:C2'	1:AA:270(C):C:H6	2.33	0.41
1:AA:270(B):A:H4'	1:AA:270(C):C:C6	2.55	0.41
1:AA:316:C:H2'	1:AA:317:G:H8	1.85	0.41
1:AA:447:A:C2	1:AA:473:G:C8	3.09	0.41
1:AA:481:G:C2'	1:AA:507:A:N6	2.81	0.41
1:AA:491:G:C2	1:AA:492:A:N3	2.88	0.41
1:AA:512:G:OP2	1:AA:1235:G:C5'	2.65	0.41
1:AA:542:C:C2	1:AA:543:C:C6	3.08	0.41
1:AA:562:U:C2'	1:AA:563:G:OP2	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:566:U:C3'	1:AA:567:A:H8	2.32	0.41
1:AA:592:G:C6	1:AA:593:G:C5	3.08	0.41
1:AA:603:A:C2'	1:AA:604:G:H8	2.30	0.41
1:AA:671:C:C4	1:AA:672:C:N4	2.87	0.41
1:AA:756:C:C4	1:AA:757:U:C5	3.08	0.41
1:AA:996:A:N3	1:AA:997:G:C8	2.88	0.41
1:AA:1031:G:C4	1:AA:1032:A:N7	2.88	0.41
1:AA:1061:U:N3	10:AJ:11:GLN:NE2	2.64	0.41
1:AA:1111:A:O5'	1:AA:1111:A:C8	2.70	0.41
1:AA:1131:G:N3	11:AK:74:ARG:HD2	2.35	0.41
1:AA:1257:C:C1'	6:AF:83:PHE:HB2	2.50	0.41
1:AA:1260:G:C2	1:AA:1261:C:C6	3.09	0.41
1:AA:1304:C:H2'	1:AA:1305:C:O5'	2.20	0.41
1:AA:1323:U:C5	1:AA:1324:G:N7	2.89	0.41
1:AA:1366:A:OP1	27:Aa:1:MET:HA	2.20	0.41
1:AA:1388:G:C6	1:AA:1400:G:N1	2.89	0.41
1:AA:1423:G:H5'	1:AA:1493:C:H1'	2.02	0.41
1:AA:1454:U:H5'	1:AA:1455:G:P	2.58	0.41
1:AA:1496:A:C5	1:AA:1577:C:O2'	2.72	0.41
1:AA:1498:C:O2	1:AA:1498:C:H2'	2.21	0.41
1:AA:1510:A:N3	1:AA:1511:A:H2	2.17	0.41
1:AA:1631:A:C6	1:AA:1632:A:C2	3.08	0.41
1:AA:1741:C:O2'	1:AA:1742:C:O4'	2.38	0.41
1:AA:1750:G:O2'	1:AA:2860:A:C2	2.67	0.41
1:AA:1854:A:H2'	1:AA:1855:G:O4'	2.20	0.41
1:AA:1901:A:C4'	4:AD:244:ARG:HH12	2.21	0.41
1:AA:1906:G:C5	1:AA:1929:G:C4	2.86	0.41
1:AA:1920:C:H1'	1:AA:1921:G:OP1	2.21	0.41
1:AA:1944:U:O2'	1:AA:1955:U:C1'	2.68	0.41
1:AA:1948:G:HO2'	1:AA:1949:G:H5'	1.85	0.41
1:AA:1967:C:N3	1:AA:1968:G:N3	2.68	0.41
1:AA:1990:C:C4	1:AA:1991:U:O4	2.73	0.41
1:AA:2015:A:OP2	1:AA:2015:A:O4'	2.38	0.41
1:AA:2026:C:O2	1:AA:2027:G:O4'	2.38	0.41
1:AA:2090:G:C2	1:AA:2091:U:N3	2.89	0.41
1:AA:2117:A:O3'	1:AA:2147:G:N2	2.54	0.41
1:AA:2173:A:C2	1:AA:2174:C:H1'	2.56	0.41
1:AA:2306:C:C5	1:AA:2311:A:N6	2.80	0.41
1:AA:2320:A:C2	1:AA:2334:G:OP1	2.74	0.41
1:AA:2353:G:C6	1:AA:2365:G:C2	3.08	0.41
1:AA:2469:A:OP2	1:AA:2476:A:C2	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2491:U:C5	1:AA:2492:U:O5'	2.73	0.41
1:AA:2554:U:C4	1:AA:2555:U:O4	2.73	0.41
1:AA:2624:G:H3'	1:AA:2625:G:H5''	2.02	0.41
1:AA:2649:U:OP2	1:AA:2649:U:H5	2.02	0.41
1:AA:2651:C:N3	1:AA:2652:C:C5	2.89	0.41
1:AA:2662:A:H2'	1:AA:2663:G:O5'	2.19	0.41
1:AA:2664:G:C8	1:AA:2664:G:O5'	2.72	0.41
1:AA:2684:U:O2'	12:AL:67:LYS:CD	2.69	0.41
1:AA:2697:G:O2'	1:AA:2698:U:C5'	2.67	0.41
1:AA:2704:C:H2'	1:AA:2705:A:C1'	2.49	0.41
1:AA:2707:G:O2'	1:AA:2708:G:C5'	2.69	0.41
1:AA:2841:C:C2'	1:AA:2842:G:C8	2.87	0.41
1:AA:2851:A:H1'	15:AO:61:HIS:NE2	2.36	0.41
1:AA:2899:G:C4	1:AA:2900:A:C8	3.08	0.41
2:AB:29:A:P	16:AP:34:HIS:ND1	2.93	0.41
2:AB:46:A:C2'	2:AB:47:C:O5'	2.68	0.41
2:AB:73:A:C6	2:AB:104:A:H1'	2.55	0.41
2:AB:79:C:H2'	2:AB:80:U:H5'	2.01	0.41
3:AC:104:LEU:HD11	3:AC:130:ILE:HD11	2.02	0.41
4:AD:85:ASP:OD1	4:AD:87:ASN:O	2.39	0.41
4:AD:183:ARG:NH2	4:AD:268:ARG:NH1	2.68	0.41
4:AD:196:VAL:CG1	4:AD:198:ASN:H	2.32	0.41
4:AD:238:GLY:C	4:AD:239:ARG:HD2	2.44	0.41
5:AE:1:MET:O	5:AE:2:LYS:HG3	2.20	0.41
5:AE:11:MET:C	5:AE:22:PRO:HD2	2.41	0.41
5:AE:27:LEU:O	5:AE:180:ASN:HB3	2.20	0.41
5:AE:64:LYS:HG2	5:AE:67:PHE:CD2	2.55	0.41
5:AE:137:HIS:CB	5:AE:138:PRO:CD	2.95	0.41
6:AF:124:LEU:HG	6:AF:197:ASP:HB2	2.02	0.41
8:AH:24:VAL:HG23	8:AH:35:VAL:CG2	2.37	0.41
8:AH:26:VAL:HB	8:AH:75:ALA:HB1	2.01	0.41
8:AH:61:HIS:O	8:AH:62:LYS:C	2.61	0.41
9:AI:129:PRO:O	9:AI:131:MET:N	2.54	0.41
10:AJ:90:LYS:CE	10:AJ:90:LYS:CA	2.92	0.41
10:AJ:98:ARG:C	10:AJ:99:ILE:HG13	2.43	0.41
10:AJ:129:GLY:O	10:AJ:132:ARG:HB2	2.20	0.41
11:AK:18:ALA:N	11:AK:21:LYS:HD2	2.35	0.41
11:AK:55:VAL:HG11	11:AK:127:ASP:HA	2.01	0.41
11:AK:109:LYS:HG3	11:AK:112:LEU:HB2	1.98	0.41
13:AM:34:GLY:O	13:AM:36:LYS:N	2.54	0.41
13:AM:70:GLN:O	13:AM:71:VAL:HG23	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:11:LYS:HD2	14:AN:13:GLN:O	2.20	0.41
14:AN:50:ALA:O	14:AN:54:MET:HG2	2.20	0.41
15:AO:52:ILE:CG2	15:AO:53:HIS:N	2.83	0.41
15:AO:97:VAL:O	15:AO:98:LEU:HG	2.20	0.41
17:AQ:67:SER:HA	17:AQ:75:ILE:HA	2.01	0.41
18:AR:105:VAL:C	18:AR:108:GLU:OE1	2.63	0.41
19:AS:12:TYR:OH	19:AS:14:VAL:O	2.35	0.41
19:AS:16:PRO:CD	19:AS:100:ARG:NH1	2.78	0.41
20:AT:8:ARG:O	20:AT:10:VAL:N	2.53	0.41
20:AT:21:VAL:CG2	20:AT:75:TYR:CD1	3.03	0.41
21:AU:25:LYS:O	21:AU:26:TYR:CD1	2.73	0.41
22:AV:2:ARG:HE	22:AV:4:LYS:N	2.16	0.41
22:AV:6:HIS:CD2	22:AV:33:LYS:NZ	2.89	0.41
23:AW:9:TYR:CB	23:AW:14:LYS:HZ3	2.28	0.41
23:AW:152:ALA:O	23:AW:155:LEU:CD2	2.60	0.41
24:AX:27:GLU:HA	24:AX:69:PHE:CE2	2.56	0.41
25:AY:6:GLU:OE1	25:AY:6:GLU:HA	2.20	0.41
25:AY:20:VAL:HB	25:AY:55:LEU:HB3	2.02	0.41
25:AY:25:ARG:O	25:AY:28:MET:CB	2.61	0.41
25:AY:47:ASP:OD1	25:AY:47:ASP:N	2.52	0.41
26:AZ:4:LEU:CD2	26:AZ:4:LEU:C	2.94	0.41
26:AZ:7:LYS:CE	26:AZ:32:GLN:HA	2.50	0.41
26:AZ:19:GLN:O	26:AZ:20:LYS:C	2.61	0.41
26:AZ:28:LEU:N	26:AZ:28:LEU:CD2	2.66	0.41
26:AZ:29:ARG:HB3	26:AZ:30:ARG:H	1.65	0.41
26:AZ:40:THR:HB	26:AZ:43:ILE:CB	2.49	0.41
26:AZ:49:LYS:O	26:AZ:50:VAL:C	2.61	0.41
27:Aa:5:ILE:O	27:Aa:56:VAL:HA	2.20	0.41
34:BA:25:C:H4'	34:BA:524:G:C2	2.54	0.41
34:BA:60:A:OP2	34:BA:387:U:H4'	2.19	0.41
34:BA:66:G:H2'	34:BA:67:C:O5'	2.20	0.41
34:BA:134:A:C5	34:BA:325:A:C2	3.09	0.41
34:BA:413:G:N1	37:BH:36:ARG:NH1	2.69	0.41
34:BA:464:G:O5'	34:BA:464:G:H8	2.03	0.41
34:BA:667:G:C2	34:BA:740:U:C2	3.09	0.41
34:BA:741:G:H2'	34:BA:742:G:H8	1.85	0.41
34:BA:744:C:H4'	34:BA:852:G:O2'	2.20	0.41
34:BA:879:C:N3	34:BA:880:C:C5	2.88	0.41
34:BA:892:A:C4	34:BA:907:A:C6	3.09	0.41
34:BA:897:C:H2'	34:BA:898:G:O5'	2.20	0.41
34:BA:938:A:H2'	34:BA:939:G:O5'	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:986:A:H2'	34:BA:987:G:C8	2.56	0.41
34:BA:989:C:H2'	34:BA:990:C:C5'	2.48	0.41
34:BA:1009:G:N3	34:BA:1010:G:C8	2.89	0.41
34:BA:1015:A:C5	34:BA:1016:A:C6	3.09	0.41
34:BA:1029:G:N3	34:BA:1031:G:OP2	2.54	0.41
34:BA:1053:G:O3'	34:BA:1054:C:H4'	2.19	0.41
34:BA:1081:G:OP1	38:BI:17:ALA:C	2.64	0.41
34:BA:1084:G:OP1	34:BA:1086:U:C1'	2.68	0.41
34:BA:1101:A:C4'	34:BA:1102:A:O5'	2.52	0.41
34:BA:1102:A:N6	34:BA:1103:C:N4	2.68	0.41
34:BA:1130:A:C2	34:BA:1146:A:C2	3.08	0.41
34:BA:1130:A:C6	34:BA:1146:A:N1	2.88	0.41
34:BA:1193:G:H2'	34:BA:1194:U:C5'	2.51	0.41
34:BA:1307:U:C2	34:BA:1308:U:C6	3.07	0.41
34:BA:1386:G:O2'	34:BA:1387:G:C5'	2.68	0.41
34:BA:1447:G:O2'	34:BA:1448:C:H5'	2.20	0.41
34:BA:1485:U:C2'	34:BA:1486:G:H8	2.32	0.41
34:BA:1511:G:C5	34:BA:1512:U:C5	3.08	0.41
34:BA:1517:G:C6	34:BA:1518:A:C2	3.09	0.41
34:BA:1537:U:N3	34:BA:1538:C:C5	2.89	0.41
35:BF:36:ARG:NE	35:BF:36:ARG:HA	2.35	0.41
35:BF:73:THR:O	35:BF:78:GLN:HB2	2.19	0.41
35:BF:89:GLY:O	35:BF:90:MET:HG2	2.20	0.41
35:BF:96:ARG:O	35:BF:98:LEU:N	2.53	0.41
35:BF:114:ARG:HG3	35:BF:115:LEU:N	2.35	0.41
36:BG:73:PRO:C	36:BG:76:VAL:HB	2.44	0.41
36:BG:77:ILE:CD1	36:BG:103:VAL:HG21	2.45	0.41
36:BG:84:ILE:HA	36:BG:101:LEU:CD1	2.50	0.41
36:BG:113:ALA:HB3	36:BG:114:PRO:HD3	2.01	0.41
36:BG:183:ASP:OD2	36:BG:184:TYR:N	2.54	0.41
37:BH:17:VAL:O	37:BH:17:VAL:HG12	2.20	0.41
37:BH:51:PRO:O	37:BH:51:PRO:HG2	2.19	0.41
37:BH:101:LEU:HD21	37:BH:121:VAL:CG1	2.50	0.41
38:BI:19:MET:CE	38:BI:20:GLN:N	2.83	0.41
38:BI:28:PHE:CE1	38:BI:49:PRO:C	2.93	0.41
38:BI:71:LEU:HG	38:BI:72:GLN:N	2.35	0.41
38:BI:106:PRO:HG2	38:BI:122:GLU:OE2	2.20	0.41
39:BJ:4:TYR:CA	39:BJ:93:SER:OG	2.68	0.41
39:BJ:59:TYR:CE2	39:BJ:61:LEU:HD21	2.55	0.41
40:BK:8:GLU:C	40:BK:8:GLU:OE2	2.63	0.41
40:BK:75:VAL:HG22	40:BK:88:PRO:HB3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:115:ARG:CG	40:BK:118:VAL:HG21	2.48	0.41
40:BK:118:VAL:HG12	40:BK:122:HIS:NE2	2.36	0.41
40:BK:126:ASP:CB	40:BK:131:LYS:HG3	2.50	0.41
40:BK:140:ASP:O	40:BK:141:VAL:C	2.62	0.41
41:BL:39:LEU:HB3	41:BL:40:ALA:H	1.75	0.41
41:BL:96:GLY:O	41:BL:97:VAL:O	2.37	0.41
42:BM:8:GLY:O	42:BM:15:ALA:O	2.37	0.41
42:BM:96:LEU:C	42:BM:100:GLY:HA3	2.43	0.41
43:BN:46:ARG:CZ	47:BR:61:TRP:CE3	3.03	0.41
43:BN:47:PHE:O	43:BN:62:HIS:HB2	2.21	0.41
45:BP:109:GLY:O	45:BP:111:LYS:N	2.54	0.41
45:BP:126:LYS:O	45:BP:128:ALA:N	2.54	0.41
47:BR:48:ALA:N	47:BR:53:LEU:HD12	2.35	0.41
49:BT:75:ARG:HG3	49:BT:80:PHE:CG	2.55	0.41
50:BU:27:PHE:O	50:BU:36:ILE:HG12	2.20	0.41
50:BU:35:VAL:CG1	50:BU:36:ILE:H	2.30	0.41
51:BV:26:LEU:HD22	51:BV:39:VAL:HG21	2.03	0.41
52:BW:3:ARG:NH2	52:BW:3:ARG:CG	2.82	0.41
53:BX:43:LEU:HD23	53:BX:43:LEU:HA	1.73	0.41
53:BX:53:LEU:O	53:BX:55:ILE:N	2.54	0.41
54:BY:18:TYR:HA	54:BY:22:ARG:HB3	2.02	0.41
55:CA:79:ALA:CA	55:CA:80:ASP:C	2.93	0.41
55:CA:176:HIS:HA	55:CA:177:GLU:CB	2.49	0.41
55:CA:204:PRO:O	55:CA:228:ARG:O	2.37	0.41
55:CA:253:LYS:HE3	55:CA:269:GLU:HB2	1.99	0.41
55:CA:325:PHE:CD2	55:CA:330:GLN:CG	2.87	0.41
55:CA:406:ASP:HB3	55:CA:407:VAL:O	2.20	0.41
55:CA:488:LEU:CB	55:CA:525:GLY:O	2.67	0.41
55:CA:527:HIS:CE1	55:CA:531:ASN:ND2	2.88	0.41
1:AA:6:A:N1	1:AA:2897:U:C5	2.88	0.41
1:AA:87:C:N4	1:AA:96:G:C6	2.89	0.41
1:AA:108:U:H2'	1:AA:109:G:O4'	2.20	0.41
1:AA:213:A:C2	1:AA:214:G:O4'	2.74	0.41
1:AA:221:A:C8	1:AA:266:G:N7	2.88	0.41
1:AA:247:G:N1	31:Ae:11:LYS:NZ	2.68	0.41
1:AA:336:C:C2'	1:AA:337:C:C5'	2.87	0.41
1:AA:398:G:H2'	1:AA:399:G:O4'	2.21	0.41
1:AA:447:A:C4	1:AA:473:G:C8	3.08	0.41
1:AA:480:A:H2'	1:AA:481:G:OP1	2.20	0.41
1:AA:507:A:C4'	1:AA:509:C:C6	3.03	0.41
1:AA:564:C:O2'	1:AA:1252:G:N1	2.44	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:598:G:O2'	13:AM:14:LYS:CE	2.67	0.41
1:AA:600:G:H1'	6:AF:105:VAL:CG2	2.50	0.41
1:AA:718:A:H8	1:AA:719:C:C6	2.38	0.41
1:AA:735:A:C8	1:AA:735:A:C3'	3.04	0.41
1:AA:826:U:C4	1:AA:828:U:H6	2.38	0.41
1:AA:909:A:C2	1:AA:912:C:C6	3.08	0.41
1:AA:945:A:C2'	1:AA:946:G:C5'	2.98	0.41
1:AA:985:C:O5'	1:AA:985:C:H6	2.04	0.41
1:AA:988:A:O2'	1:AA:1157:G:H4'	2.21	0.41
1:AA:1062:G:H1'	1:AA:1063:G:OP1	2.21	0.41
1:AA:1062:G:O2'	1:AA:1064:C:OP2	2.38	0.41
1:AA:1067:A:C5	1:AA:1068:G:O6	2.73	0.41
1:AA:1147:C:C2	1:AA:1148:A:C8	3.08	0.41
1:AA:1152:C:H4'	18:AR:80:ILE:CG2	2.49	0.41
1:AA:1247:A:H2'	1:AA:1248:G:H5''	2.03	0.41
1:AA:1305:C:O2'	1:AA:1306:C:C5'	2.68	0.41
1:AA:1394:U:H4'	1:AA:1603:A:H5''	2.01	0.41
1:AA:1453:A:C2	1:AA:1454:U:C1'	3.04	0.41
1:AA:1553:A:H2'	1:AA:1555:G:N7	2.36	0.41
1:AA:1587:A:H2'	1:AA:1588:C:H6	1.80	0.41
1:AA:1629:U:H1'	1:AA:2699:C:P	2.61	0.41
1:AA:1693:U:O4	1:AA:1977:A:N7	2.53	0.41
1:AA:1727:U:O2'	1:AA:1728:G:P	2.77	0.41
1:AA:1835:G:C2	1:AA:1836:C:C6	3.08	0.41
1:AA:1915:U:OP2	1:AA:1915:U:H3'	2.21	0.41
1:AA:1923:U:H6	1:AA:1923:U:H5''	1.84	0.41
1:AA:1935:G:C2'	1:AA:1936:A:OP2	2.68	0.41
1:AA:2026:C:H2'	1:AA:2027:G:O4'	2.20	0.41
1:AA:2057:A:H1'	28:Ab:4:HIS:O	2.21	0.41
1:AA:2106:G:N1	1:AA:2184:G:C5	2.89	0.41
1:AA:2210:G:C6	4:AD:70:TRP:CD2	3.08	0.41
1:AA:2285:C:C4'	1:AA:2288:A:N6	2.83	0.41
1:AA:2310:A:H2'	1:AA:2311:A:OP2	2.19	0.41
1:AA:2372:G:H2'	1:AA:2372:G:N3	2.34	0.41
1:AA:2373:G:N3	1:AA:2374:C:C5	2.88	0.41
1:AA:2390:U:O2'	1:AA:2391:G:C5'	2.58	0.41
1:AA:2423:U:H1'	1:AA:2425:A:N3	2.35	0.41
1:AA:2434:A:O4'	1:AA:2434:A:OP2	2.38	0.41
1:AA:2447:G:H3'	1:AA:2499:C:OP2	2.10	0.41
1:AA:2500:U:H6	1:AA:2500:U:H5''	1.86	0.41
1:AA:2508:G:N2	1:AA:2509:G:H1'	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2519:U:C4'	1:AA:2520:C:OP1	2.68	0.41
1:AA:2521:C:O2	1:AA:2522:U:O4'	2.38	0.41
1:AA:2528:U:O2'	1:AA:2529:G:H8	2.04	0.41
1:AA:2548:G:C2'	1:AA:2549:G:O5'	2.69	0.41
1:AA:2621:A:O2'	1:AA:2622:C:H5'	2.20	0.41
1:AA:2674:G:C2'	1:AA:2675:A:C8	2.86	0.41
1:AA:2691:C:O4'	1:AA:2872:G:C5	2.74	0.41
1:AA:2771:C:H2'	1:AA:2771:C:O2	2.20	0.41
1:AA:2817:G:N2	1:AA:2830:G:C4	2.89	0.41
1:AA:2817:G:C6	1:AA:2818:G:C5	3.08	0.41
1:AA:2887:U:N3	1:AA:2888:C:C4	2.88	0.41
2:AB:8:U:O2	2:AB:9:G:C8	2.74	0.41
2:AB:10:C:O5'	2:AB:10:C:H6	2.04	0.41
2:AB:37:C:N4	2:AB:44:G:C6	2.89	0.41
2:AB:45:A:N3	2:AB:45:A:H2'	2.36	0.41
2:AB:65:C:C4	2:AB:108:C:C5	3.09	0.41
2:AB:80:U:H2'	2:AB:81:G:H8	1.77	0.41
3:AC:59:ARG:HD3	3:AC:164:ARG:HG2	2.00	0.41
3:AC:87:GLU:CG	3:AC:94:VAL:HG11	2.50	0.41
3:AC:156:ILE:HA	3:AC:160:ARG:HB2	2.01	0.41
3:AC:213:TYR:HA	3:AC:224:ILE:HG12	2.02	0.41
4:AD:94:LEU:HD12	4:AD:94:LEU:C	2.44	0.41
4:AD:117:VAL:HG13	4:AD:129:ASN:N	2.35	0.41
4:AD:265:PRO:O	4:AD:267:SER:N	2.53	0.41
5:AE:38:THR:CB	5:AE:39:PRO:CD	2.98	0.41
5:AE:47:VAL:C	5:AE:48:GLN:NE2	2.78	0.41
5:AE:118:LYS:NZ	5:AE:119:ARG:N	2.69	0.41
6:AF:156:LEU:O	6:AF:176:LEU:C	2.64	0.41
6:AF:168:ARG:HB2	6:AF:169:ASN:H	1.66	0.41
7:AG:35:GLU:O	7:AG:160:VAL:O	2.39	0.41
7:AG:43:LEU:HA	7:AG:43:LEU:HD12	1.59	0.41
7:AG:47:LYS:CG	7:AG:72:ARG:O	2.68	0.41
8:AH:11:VAL:HG21	8:AH:17:VAL:CG2	2.50	0.41
8:AH:11:VAL:N	8:AH:50:VAL:CG2	2.83	0.41
10:AJ:24:GLY:O	10:AJ:26:ALA:N	2.53	0.41
10:AJ:35:MET:CG	10:AJ:36:GLU:N	2.83	0.41
10:AJ:106:GLU:O	10:AJ:109:LYS:HG3	2.21	0.41
11:AK:35:ARG:HD3	11:AK:48:MET:HE3	2.02	0.41
11:AK:71:ILE:HG22	11:AK:72:TYR:H	1.85	0.41
11:AK:89:LYS:CA	11:AK:92:ALA:HB3	2.48	0.41
12:AL:10:VAL:N	12:AL:17:ARG:CG	2.75	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:78:ARG:N	12:AL:78:ARG:CD	2.84	0.41
13:AM:124:LYS:HB3	13:AM:143:GLY:CA	2.50	0.41
14:AN:43:THR:HA	14:AN:94:VAL:CB	2.50	0.41
14:AN:48:GLU:O	14:AN:52:VAL:HG23	2.21	0.41
14:AN:59:ARG:NH1	23:AW:177:PRO:HB2	2.36	0.41
15:AO:45:ARG:CA	15:AO:95:THR:HG21	2.51	0.41
15:AO:54:LEU:C	15:AO:57:ARG:HB2	2.43	0.41
16:AP:40:ILE:CG2	16:AP:41:ASP:H	2.33	0.41
17:AQ:33:LYS:HB2	17:AQ:45:PHE:CD1	2.56	0.41
18:AR:45:TYR:O	18:AR:47:TYR:N	2.52	0.41
18:AR:86:ALA:O	18:AR:90:VAL:HG21	2.21	0.41
18:AR:108:GLU:HA	18:AR:111:GLU:HG2	2.02	0.41
19:AS:18:LEU:CB	19:AS:66:ARG:HH22	2.21	0.41
21:AU:11:PRO:O	21:AU:13:LEU:HD23	2.21	0.41
21:AU:54:VAL:CG2	21:AU:81:VAL:HG23	2.39	0.41
22:AV:74:PRO:CB	22:AV:101:LYS:CA	2.96	0.41
23:AW:63:ASP:OD1	23:AW:64:GLY:N	2.53	0.41
23:AW:104:PHE:CE2	23:AW:171:ILE:HG13	2.55	0.41
23:AW:122:ARG:HG2	23:AW:170:THR:C	2.43	0.41
25:AY:14:VAL:HG13	25:AY:18:LYS:HZ2	1.84	0.41
25:AY:23:LYS:HB3	25:AY:23:LYS:HZ2	1.84	0.41
25:AY:30:LEU:HD13	25:AY:45:ILE:HA	2.02	0.41
25:AY:39:LEU:HD23	25:AY:39:LEU:N	2.34	0.41
25:AY:56:LEU:O	25:AY:57:THR:C	2.63	0.41
25:AY:58:VAL:O	25:AY:60:ASN:N	2.53	0.41
26:AZ:48:GLU:O	26:AZ:49:LYS:C	2.62	0.41
27:Aa:39:CYS:O	27:Aa:40:HIS:CD2	2.74	0.41
30:Ad:25:PRO:HA	30:Ad:28:ARG:CZ	2.50	0.41
31:Ae:4:MET:O	31:Ae:5:LYS:O	2.39	0.41
34:BA:14:U:O2	34:BA:17:U:C5	2.74	0.41
34:BA:42:G:C4	34:BA:43:C:C5	3.08	0.41
34:BA:63:C:N3	34:BA:105:G:C6	2.88	0.41
34:BA:66:G:C4'	34:BA:173:U:C5	2.93	0.41
34:BA:118:U:H3'	34:BA:288:A:N6	2.35	0.41
34:BA:147:G:C6	34:BA:148:G:C5	3.08	0.41
34:BA:173:U:C5'	34:BA:197:A:C2'	2.99	0.41
34:BA:222:U:C2'	34:BA:223:U:O5'	2.68	0.41
34:BA:292:G:C8	34:BA:293:G:H1'	2.55	0.41
34:BA:293:G:C6	34:BA:305:G:C2	3.08	0.41
34:BA:373:A:C5	34:BA:482:A:N7	2.88	0.41
34:BA:380:G:H2'	34:BA:382:A:OP2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:562:C:O2'	45:BP:15:ARG:CG	2.68	0.41
34:BA:680:C:C2	34:BA:711:G:C2	3.08	0.41
34:BA:681:C:O2'	34:BA:682:G:H5'	2.20	0.41
34:BA:687:A:O2'	34:BA:688:G:OP2	2.38	0.41
34:BA:952:U:C2'	34:BA:953:G:H5'	2.50	0.41
34:BA:978:A:C2	34:BA:1319:A:N3	2.89	0.41
34:BA:999:U:C4	34:BA:1042:G:C6	3.08	0.41
34:BA:1032(B):G:C2	34:BA:1033:G:C4	3.08	0.41
34:BA:1055:A:N6	34:BA:1206:G:C4	2.88	0.41
34:BA:1056:U:O2	34:BA:1056:U:C2'	2.68	0.41
34:BA:1067:A:N3	34:BA:1068:G:C1'	2.83	0.41
34:BA:1081:G:OP1	38:BI:18:ARG:CA	2.69	0.41
34:BA:1092:A:N1	34:BA:1110:A:H4'	2.36	0.41
34:BA:1110:A:C2'	34:BA:1111:A:C5'	2.94	0.41
34:BA:1117:G:C6	34:BA:1184:G:O6	2.59	0.41
34:BA:1125:U:H4'	34:BA:1125:U:OP2	2.20	0.41
34:BA:1181:G:C8	34:BA:1182:G:N3	2.88	0.41
34:BA:1256:A:H61	34:BA:1278:U:C2'	2.32	0.41
34:BA:1279:A:H5''	43:BN:7:LYS:HE2	2.02	0.41
34:BA:1308:U:HO3'	46:BQ:92:HIS:CD2	2.34	0.41
34:BA:1339:A:C8	34:BA:1339:A:O5'	2.73	0.41
34:BA:1415:G:H2'	34:BA:1416:G:C5'	2.51	0.41
34:BA:1447:G:C6	34:BA:1460:A:N1	2.88	0.41
35:BF:114:ARG:O	35:BF:118:LEU:CB	2.68	0.41
36:BG:18:TRP:O	36:BG:21:ARG:HG2	2.20	0.41
37:BH:78:LEU:O	37:BH:81:GLU:HB3	2.19	0.41
37:BH:105:VAL:HB	37:BH:117:ALA:HB1	2.01	0.41
37:BH:129:ASN:OD1	37:BH:145:GLU:N	2.54	0.41
38:BI:18:ARG:CB	38:BI:26:PHE:HA	2.51	0.41
38:BI:78:HIS:ND1	41:BL:104:ARG:CD	2.82	0.41
38:BI:83:GLU:HG2	38:BI:88:LYS:HE2	2.02	0.41
38:BI:107:ARG:CZ	38:BI:107:ARG:CB	2.99	0.41
39:BJ:97:PHE:CD2	51:BV:31:LEU:HD22	2.54	0.41
40:BK:87:VAL:HG21	40:BK:154:TYR:CB	2.49	0.41
40:BK:113:GLU:OE1	40:BK:118:VAL:CG1	2.65	0.41
41:BL:6:ILE:CD1	41:BL:85:ARG:NE	2.83	0.41
41:BL:100:ILE:HD12	41:BL:100:ILE:N	2.11	0.41
41:BL:109:ILE:HG12	41:BL:137:VAL:H	1.84	0.41
42:BM:17:VAL:HG11	42:BM:81:ILE:CG1	2.50	0.41
42:BM:45:ALA:O	42:BM:78:LYS:CG	2.66	0.41
44:BO:69:ALA:O	44:BO:72:ALA:CB	2.65	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:66:LEU:N	46:BQ:70:LEU:CA	2.84	0.41
47:BR:4:LYS:O	47:BR:6:LEU:N	2.53	0.41
47:BR:41:ARG:HA	47:BR:44:LEU:HD22	2.02	0.41
48:BS:5:LYS:NZ	48:BS:5:LYS:CB	2.79	0.41
48:BS:60:VAL:C	48:BS:63:ARG:HG3	2.41	0.41
49:BT:58:TYR:HD1	49:BT:59:TRP:CA	2.33	0.41
50:BU:40:LYS:NZ	50:BU:40:LYS:CB	2.71	0.41
52:BW:22:LEU:CA	52:BW:25:LYS:NZ	2.83	0.41
52:BW:30:LEU:HD23	52:BW:32:LYS:H	1.84	0.41
53:BX:40:ALA:O	53:BX:42:GLN:N	2.53	0.41
53:BX:74:LYS:HD3	53:BX:74:LYS:N	2.35	0.41
53:BX:85:MET:H	53:BX:85:MET:HG2	1.62	0.41
55:CA:18:LYS:N	57:CA:701:GCP:O2A	2.53	0.41
55:CA:59:LYS:NZ	55:CA:66:TRP:CZ2	2.88	0.41
55:CA:185:PRO:HD2	55:CA:186:LEU:H	1.84	0.41
55:CA:436:ARG:HG2	55:CA:436:ARG:NH1	2.35	0.41
1:AA:14:A:H8	1:AA:15:G:O4'	2.04	0.41
1:AA:43:G:C2	1:AA:438:G:C4	3.08	0.41
1:AA:60:G:N7	1:AA:63:U:O4	2.53	0.41
1:AA:146:G:H2'	1:AA:147:U:H5''	2.03	0.41
1:AA:154:G:C2	1:AA:173:G:C2	3.09	0.41
1:AA:270(S):G:H2'	1:AA:270(T):G:H8	1.86	0.41
1:AA:280:C:H3'	1:AA:282:A:OP2	2.20	0.41
1:AA:336:C:HO2'	1:AA:337:C:H5'	1.84	0.41
1:AA:364:C:O5'	1:AA:364:C:H6	2.03	0.41
1:AA:385:C:O2'	1:AA:386:G:H5''	2.21	0.41
1:AA:416:C:C5	1:AA:417:C:C5	3.09	0.41
1:AA:471:A:C8	1:AA:472:A:N7	2.89	0.41
1:AA:541:C:H5''	1:AA:542:C:OP2	2.21	0.41
1:AA:558:G:N3	1:AA:559:G:C8	2.89	0.41
1:AA:703:U:O4	1:AA:730:C:N4	2.54	0.41
1:AA:771:G:H2'	1:AA:772:C:H6	1.83	0.41
1:AA:792:G:C6	1:AA:2440:C:C6	3.09	0.41
1:AA:793:A:OP2	1:AA:793:A:O4'	2.39	0.41
1:AA:960:A:C5	1:AA:962:G:C8	3.08	0.41
1:AA:974:G:C4	1:AA:1186:G:C5	3.08	0.41
1:AA:987:G:O2'	1:AA:1000:A:C1'	2.58	0.41
1:AA:1024:G:C6	1:AA:1138:G:O6	2.73	0.41
1:AA:1079:C:H2'	10:AJ:129:GLY:HA2	2.02	0.41
1:AA:1102:C:C2	1:AA:1103:A:N7	2.88	0.41
1:AA:1142:U:H2'	1:AA:1142(A):A:O5'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1183:G:H4'	1:AA:1184:G:O4'	2.20	0.41
1:AA:1186:G:C8	1:AA:1187:G:N7	2.87	0.41
1:AA:1257:C:H1'	6:AF:83:PHE:HB2	2.02	0.41
1:AA:1278:A:O3'	15:AO:34:ILE:HG23	2.20	0.41
1:AA:1296:G:C2	1:AA:1297:C:C4	3.09	0.41
1:AA:1360:A:H2'	1:AA:1361:G:C5'	2.51	0.41
1:AA:1422:G:H4'	1:AA:1493:C:O2'	2.21	0.41
1:AA:1518:C:C3'	1:AA:1519:G:C5'	2.96	0.41
1:AA:1519:G:H2'	1:AA:1519:G:N3	2.35	0.41
1:AA:1582:C:O5'	1:AA:1583:A:H5''	2.20	0.41
1:AA:1647:G:C5'	1:AA:1648:C:OP1	2.69	0.41
1:AA:1673:U:O2'	1:AA:1674:G:OP1	2.38	0.41
1:AA:1689:A:C6	1:AA:1700:A:C4	3.08	0.41
1:AA:1698:A:C2'	1:AA:1699:G:OP2	2.68	0.41
1:AA:1800:C:H1'	1:AA:1802:A:C8	2.56	0.41
1:AA:1858:G:O2'	1:AA:1859:A:O5'	2.34	0.41
1:AA:1861:G:OP1	3:AC:206:GLY:HA2	2.21	0.41
1:AA:1900:A:C2	1:AA:1970:A:N6	2.89	0.41
1:AA:1935:G:H3'	1:AA:1962:C:N4	2.26	0.41
1:AA:1964:G:C6	1:AA:1967:C:N4	2.78	0.41
1:AA:2017:U:C2'	28:Ab:8:LYS:O	2.68	0.41
1:AA:2031:A:N6	1:AA:2498:C:C1'	2.77	0.41
1:AA:2075:U:O2	1:AA:2238:G:N2	2.53	0.41
1:AA:2093:G:C2'	1:AA:2094:G:H5'	2.50	0.41
1:AA:2103:C:N3	1:AA:2104:G:N7	2.68	0.41
1:AA:2199:A:C4	1:AA:2205:C:C6	3.09	0.41
1:AA:2284:C:H2'	1:AA:2285:C:C6	2.56	0.41
1:AA:2286:A:OP2	29:Ac:27:LYS:CE	2.67	0.41
1:AA:2287:A:H2	1:AA:2346:A:H61	1.69	0.41
1:AA:2344:U:H5''	29:Ac:38:LYS:CD	2.48	0.41
1:AA:2345:G:H21	1:AA:2381:C:C2'	2.34	0.41
1:AA:2349:G:C6	1:AA:2369:A:C6	3.08	0.41
1:AA:2356:C:H5''	1:AA:2356:C:C6	2.55	0.41
1:AA:2415:G:P	13:AM:61:ARG:HD2	2.58	0.41
1:AA:2688:U:HO2'	1:AA:2689:U:P	2.43	0.41
1:AA:2705:A:N7	1:AA:2706:G:N7	2.68	0.41
1:AA:2706:G:C2	1:AA:2707:G:C4	3.08	0.41
1:AA:2786:U:C2	1:AA:2787:C:C5	3.08	0.41
1:AA:2787:C:C5'	5:AE:64:LYS:HB2	2.46	0.41
1:AA:2813:A:H2'	1:AA:2814:C:H6	1.84	0.41
1:AA:2850:A:C4	1:AA:2851:A:C8	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:69:G:C4	2:AB:70:C:C5	3.08	0.41
2:AB:109:G:C2	2:AB:110:G:C5	3.07	0.41
4:AD:85:ASP:C	4:AD:87:ASN:ND2	2.79	0.41
4:AD:175:LEU:CD2	4:AD:176:ARG:O	2.69	0.41
4:AD:246:PRO:CG	4:AD:252:TRP:CE3	2.86	0.41
4:AD:269:PHE:O	4:AD:270:ILE:CG1	2.67	0.41
6:AF:8:GLN:O	6:AF:9:ILE:HD12	2.19	0.41
6:AF:27:GLU:CG	6:AF:116:ASP:HB2	2.51	0.41
6:AF:199:TRP:O	6:AF:203:GLN:OE1	2.39	0.41
7:AG:6:ALA:HA	7:AG:9:ARG:HE	1.86	0.41
7:AG:19:LEU:CA	7:AG:22:ARG:HG2	2.51	0.41
7:AG:60:LEU:C	7:AG:66:GLN:O	2.63	0.41
7:AG:112:PRO:HG2	7:AG:112:PRO:O	2.20	0.41
8:AH:42:ARG:NE	8:AH:42:ARG:CA	2.71	0.41
8:AH:121:ILE:HD12	8:AH:144:VAL:HG11	2.03	0.41
8:AH:155:SER:HG	8:AH:163:TYR:HH	1.63	0.41
10:AJ:44:ALA:C	10:AJ:46:ALA:N	2.76	0.41
10:AJ:51:ALA:O	10:AJ:52:ILE:HB	2.19	0.41
10:AJ:76:TYR:O	10:AJ:80:LYS:HD2	2.21	0.41
11:AK:4:TYR:HB3	18:AR:64:ARG:NH1	2.33	0.41
11:AK:58:ASP:C	11:AK:60:ILE:N	2.76	0.41
11:AK:70:LYS:CA	11:AK:85:ILE:O	2.62	0.41
11:AK:121:LYS:C	11:AK:122:VAL:CG1	2.94	0.41
12:AL:53:LYS:HG3	12:AL:55:GLY:H	1.84	0.41
12:AL:106:LEU:O	12:AL:109:LYS:HG3	2.20	0.41
13:AM:79:ARG:HE	13:AM:83:VAL:HG12	1.86	0.41
15:AO:22:ARG:HD3	15:AO:69:ASP:O	2.21	0.41
15:AO:28:LEU:O	15:AO:30:THR:N	2.54	0.41
15:AO:83:ILE:C	15:AO:85:PRO:N	2.77	0.41
15:AO:90:ARG:CB	15:AO:94:TYR:HE1	2.33	0.41
16:AP:27:SER:C	16:AP:28:VAL:O	2.64	0.41
16:AP:34:HIS:O	16:AP:35:ILE:O	2.37	0.41
17:AQ:3:ARG:HA	17:AQ:6:LEU:CD2	2.50	0.41
17:AQ:20:PRO:CB	17:AQ:22:PHE:CE1	3.03	0.41
17:AQ:50:ILE:HD12	17:AQ:76:PHE:HB3	2.00	0.41
17:AQ:59:THR:O	17:AQ:81:PRO:HG2	2.21	0.41
17:AQ:64:ARG:NH2	17:AQ:77:PRO:C	2.79	0.41
17:AQ:100:TYR:HA	17:AQ:102:ILE:CD1	2.26	0.41
17:AQ:100:TYR:C	17:AQ:102:ILE:H	2.27	0.41
18:AR:62:ILE:HG22	18:AR:63:VAL:HG23	2.03	0.41
19:AS:12:TYR:CD1	19:AS:13:ARG:N	2.67	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:8:ILE:H	21:AU:9:LEU:CD1	2.33	0.41
21:AU:21:PHE:CD1	21:AU:26:TYR:HA	2.53	0.41
22:AV:45:VAL:HG12	22:AV:57:GLN:CD	2.44	0.41
23:AW:95:PRO:CB	23:AW:131:ARG:H	2.33	0.41
25:AY:3:LYS:O	25:AY:6:GLU:CB	2.68	0.41
26:AZ:27:GLY:O	26:AZ:28:LEU:O	2.37	0.41
26:AZ:30:ARG:O	26:AZ:31:LEU:C	2.63	0.41
26:AZ:35:ARG:HG2	26:AZ:35:ARG:H	1.65	0.41
27:Aa:41:PRO:HA	27:Aa:58:ARG:NH1	2.35	0.41
27:Aa:50:VAL:O	27:Aa:51:ASP:OD2	2.39	0.41
27:Aa:58:ARG:HH11	27:Aa:58:ARG:HG3	1.85	0.41
27:Aa:65:ASP:CA	27:Aa:68:ARG:HH12	2.33	0.41
28:Ab:55:ARG:O	28:Ab:57:VAL:HG13	2.21	0.41
30:Ad:43:THR:HA	30:Ad:46:VAL:HB	2.03	0.41
31:Ae:6:THR:O	31:Ae:6:THR:CG2	2.63	0.41
31:Ae:62:LEU:N	31:Ae:63:PRO:CD	2.81	0.41
34:BA:11:G:O2'	34:BA:12:U:H5'	2.21	0.41
34:BA:103:C:C1'	34:BA:151:A:C2	3.01	0.41
34:BA:189:U:C2	50:BU:72:ARG:NH2	2.85	0.41
34:BA:280:C:H1'	50:BU:38:ARG:CD	2.51	0.41
34:BA:299:G:C4	34:BA:300:A:N6	2.88	0.41
34:BA:324:G:OP1	53:BX:22:ARG:HB3	2.20	0.41
34:BA:390:C:C2	34:BA:391:G:N7	2.88	0.41
34:BA:439:A:C4	34:BA:496:A:C5	3.09	0.41
34:BA:538:G:C3'	45:BP:114:LYS:HD3	2.48	0.41
34:BA:548:G:C6	34:BA:549:C:N4	2.89	0.41
34:BA:607:A:C4	34:BA:608:A:H8	2.38	0.41
34:BA:690:G:C2	34:BA:691:G:O4'	2.74	0.41
34:BA:698:G:C2	34:BA:699:C:C2	3.08	0.41
34:BA:760:G:C2'	50:BU:103:GLY:HA3	2.49	0.41
34:BA:837:G:C2	34:BA:838:G:C5	3.09	0.41
34:BA:896:C:H2'	34:BA:897:C:C6	2.56	0.41
34:BA:988:G:C6	34:BA:989:C:C4	3.09	0.41
34:BA:993:G:H21	34:BA:995:C:N4	2.19	0.41
34:BA:993:G:N2	34:BA:995:C:N4	2.68	0.41
34:BA:1001:G:H3'	34:BA:1001:G:C8	2.55	0.41
34:BA:1107:C:C2'	34:BA:1108:G:H5''	2.51	0.41
34:BA:1109:C:C2	34:BA:1110:A:C8	3.08	0.41
34:BA:1109:C:C3'	34:BA:1110:A:H8	2.34	0.41
34:BA:1127:G:N2	34:BA:1147:C:N4	2.67	0.41
34:BA:1144:G:N1	34:BA:1145:C:C2	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1268:A:O2'	34:BA:1269:A:O5'	2.38	0.41
34:BA:1301:U:C5	34:BA:1303:C:C5	3.09	0.41
34:BA:1314:C:N4	34:BA:1323:G:H1	2.19	0.41
34:BA:1339:A:C3'	34:BA:1340:A:H5'	2.48	0.41
34:BA:1347:G:O2'	34:BA:1348:U:P	2.75	0.41
34:BA:1371:G:C6	34:BA:1372:U:C4	3.08	0.41
34:BA:1433:A:C2'	34:BA:1434:A:H5'	2.50	0.41
34:BA:1475:G:H2'	34:BA:1476:G:O5'	2.21	0.41
34:BA:1491:G:H5''	45:BP:46:LYS:HZ1	1.85	0.41
35:BF:11:LEU:HD23	35:BF:11:LEU:N	2.36	0.41
35:BF:43:ASP:OD2	35:BF:45:GLN:HB2	2.21	0.41
35:BF:59:GLU:N	35:BF:221:LEU:HD11	2.36	0.41
35:BF:69:LEU:HD13	35:BF:70:PHE:H	1.84	0.41
36:BG:38:ARG:HB2	36:BG:94:LEU:CG	2.50	0.41
36:BG:59:ARG:HD3	36:BG:61:ALA:O	2.21	0.41
36:BG:84:ILE:CG1	36:BG:101:LEU:HD13	2.43	0.41
37:BH:64:LEU:O	37:BH:65:ARG:C	2.64	0.41
37:BH:165:MET:SD	37:BH:165:MET:C	3.04	0.41
37:BH:177:ASP:OD1	37:BH:179:GLU:CB	2.67	0.41
37:BH:180:GLY:C	37:BH:182:LYS:HG2	2.46	0.41
37:BH:195:ALA:C	37:BH:196:LEU:CG	2.93	0.41
38:BI:14:ARG:O	38:BI:14:ARG:HG3	2.20	0.41
38:BI:61:TYR:O	38:BI:65:ASN:N	2.38	0.41
38:BI:149:GLU:OE2	38:BI:152:ARG:HG3	2.20	0.41
39:BJ:80:ARG:O	39:BJ:81:ILE:O	2.37	0.41
40:BK:68:ASN:HB3	40:BK:135:VAL:HG11	2.02	0.41
40:BK:69:VAL:HG13	40:BK:135:VAL:HG22	2.02	0.41
40:BK:112:PRO:O	40:BK:113:GLU:HG2	2.19	0.41
40:BK:136:LYS:HB3	40:BK:136:LYS:HE3	1.55	0.41
41:BL:85:ARG:HD2	41:BL:85:ARG:HA	1.79	0.41
42:BM:121:ARG:HG2	42:BM:121:ARG:O	2.21	0.41
43:BN:46:ARG:CD	43:BN:64:GLU:OE2	2.69	0.41
43:BN:79:ARG:HH22	43:BN:82:ILE:HG21	1.86	0.41
44:BO:54:ARG:O	44:BO:57:THR:N	2.54	0.41
44:BO:83:ILE:N	44:BO:83:ILE:CD1	2.82	0.41
44:BO:104:GLN:HE22	44:BO:106:LYS:CB	2.33	0.41
46:BQ:92:HIS:C	46:BQ:94:ARG:N	2.77	0.41
47:BR:58:LYS:HD3	47:BR:58:LYS:C	2.37	0.41
48:BS:29:VAL:HG22	48:BS:67:LEU:HD21	2.01	0.41
48:BS:79:ARG:HB2	48:BS:79:ARG:CZ	2.50	0.41
49:BT:8:ARG:NH1	49:BT:11:SER:O	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:53:VAL:CG2	49:BT:54:GLU:N	2.81	0.41
50:BU:14:LYS:O	50:BU:15:MET:O	2.39	0.41
50:BU:78:GLU:HG3	50:BU:79:SER:N	2.34	0.41
51:BV:50:ILE:O	51:BV:50:ILE:HG22	2.20	0.41
52:BW:51:VAL:CB	52:BW:75:ALA:CB	2.99	0.41
55:CA:176:HIS:CA	55:CA:177:GLU:HB2	2.50	0.41
1:AA:4:C:C5	1:AA:2900:A:N1	2.89	0.41
1:AA:6:A:C2	1:AA:2898:U:C2	3.07	0.41
1:AA:224:G:N2	1:AA:225:A:H1'	2.36	0.41
1:AA:270(R):G:N2	1:AA:270(S):G:C4	2.89	0.41
1:AA:270(Z):U:HO2'	1:AA:271(A):C:P	2.44	0.41
1:AA:271(C):U:O2'	1:AA:271:G:H4'	2.20	0.41
1:AA:310:A:C5	1:AA:312:G:C4	3.08	0.41
1:AA:379:G:H4'	1:AA:2232:U:H5''	2.02	0.41
1:AA:402:A:N1	1:AA:403:U:C6	2.88	0.41
1:AA:408:G:C2	1:AA:409:C:C6	3.09	0.41
1:AA:452:G:N2	1:AA:458:G:H21	2.19	0.41
1:AA:468:G:C2'	1:AA:469:G:H5'	2.51	0.41
1:AA:479:A:C6	1:AA:481:G:C4	3.09	0.41
1:AA:545:G:N3	1:AA:545:G:H2'	2.36	0.41
1:AA:577:G:C6	1:AA:578:A:C5	3.09	0.41
1:AA:622:G:C6	1:AA:623:G:N2	2.89	0.41
1:AA:631:A:C8	1:AA:631:A:OP1	2.73	0.41
1:AA:638:G:H21	1:AA:651:G:H5'	1.86	0.41
1:AA:684:G:C2	1:AA:775:G:C5	3.09	0.41
1:AA:696:G:H2'	1:AA:697:C:H6	1.86	0.41
1:AA:733:G:C6	1:AA:761:A:C5	3.08	0.41
1:AA:800:A:C8	1:AA:802:A:H5'	2.55	0.41
1:AA:806:C:O5'	1:AA:806:C:C6	2.68	0.41
1:AA:848:G:N3	1:AA:933:A:N3	2.68	0.41
1:AA:881:G:C2	1:AA:896:A:N9	2.88	0.41
1:AA:939:G:H2'	1:AA:940:G:O5'	2.21	0.41
1:AA:957:A:C2	1:AA:2459:A:OP1	2.74	0.41
1:AA:994:C:C5'	1:AA:995:C:OP1	2.68	0.41
1:AA:1012:U:H5'	1:AA:1013:C:P	2.61	0.41
1:AA:1013:C:OP2	1:AA:1142:U:C2	2.73	0.41
1:AA:1019:U:P	1:AA:1036:G:O4'	2.76	0.41
1:AA:1049:C:N4	1:AA:1050:A:H62	2.16	0.41
1:AA:1076:C:C3'	1:AA:1076:C:C6	3.03	0.41
1:AA:1083:U:C1'	1:AA:1085:A:N6	2.81	0.41
1:AA:1109:C:H2'	1:AA:1110:G:O4'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1277:G:O2'	15:AO:24:GLN:CG	2.69	0.41
1:AA:1338:G:N3	1:AA:1393:A:H2	2.19	0.41
1:AA:1467:C:OP1	1:AA:1467:C:H4'	2.20	0.41
1:AA:1567:A:OP2	4:AD:86:PRO:HA	2.20	0.41
1:AA:1603:A:N1	1:AA:1604:C:C4	2.89	0.41
1:AA:1667:G:O5'	12:AL:7:TYR:CZ	2.74	0.41
1:AA:1769:G:C5	1:AA:1984:G:C6	3.08	0.41
1:AA:1786:A:N7	1:AA:1787:A:N7	2.69	0.41
1:AA:1807:G:H21	1:AA:1809:A:H4'	1.86	0.41
1:AA:1824:G:HO2'	4:AD:252:TRP:HZ3	1.62	0.41
1:AA:1843:C:O2	1:AA:1844:C:C6	2.73	0.41
1:AA:1901:A:O2'	4:AD:244:ARG:HD2	2.20	0.41
1:AA:2007:C:O2'	1:AA:2008:C:H5'	2.21	0.41
1:AA:2051:A:O2'	1:AA:2052:G:O5'	2.39	0.41
1:AA:2280:G:N3	1:AA:2281:C:C5	2.89	0.41
1:AA:2287:A:N7	1:AA:2289:G:C4	2.88	0.41
1:AA:2320:A:H5'	1:AA:2321:G:C6	2.55	0.41
1:AA:2323:G:N3	1:AA:2324:C:C4	2.89	0.41
1:AA:2327:A:N7	1:AA:2388:A:C6	2.89	0.41
1:AA:2380:C:O5'	1:AA:2380:C:H6	2.04	0.41
1:AA:2423:U:C6	1:AA:2423:U:H5'	2.56	0.41
1:AA:2469:A:N7	1:AA:2470:G:C8	2.88	0.41
1:AA:2469:A:N6	1:AA:2481:G:H1'	2.33	0.41
1:AA:2472:G:H3'	1:AA:2475:C:N4	2.34	0.41
1:AA:2599:G:HO2'	1:AA:2600:A:H5'	1.86	0.41
1:AA:2661:G:C5'	55:CA:14:VAL:CG1	2.79	0.41
1:AA:2666:C:H3'	1:AA:2666:C:C6	2.56	0.41
1:AA:2706:G:H5'	1:AA:2852:G:OP1	2.19	0.41
1:AA:2737:G:N3	1:AA:2738:A:C8	2.89	0.41
1:AA:2770:G:O5'	1:AA:2770:G:C8	2.67	0.41
1:AA:2881:C:C2	1:AA:2882:A:C8	3.09	0.41
2:AB:82:G:C2'	2:AB:83:G:H8	2.26	0.41
3:AC:90:GLY:C	3:AC:153:ILE:CG2	2.93	0.41
3:AC:163:PHE:HE2	3:AC:196:LEU:N	2.19	0.41
3:AC:194:ARG:O	3:AC:195:ALA:C	2.62	0.41
3:AC:210:ARG:HH11	3:AC:210:ARG:CG	2.31	0.41
3:AC:223:ARG:CB	3:AC:223:ARG:NH1	2.84	0.41
4:AD:5:LYS:O	4:AD:27:THR:HG23	2.19	0.41
4:AD:7:LYS:HD3	4:AD:9:TYR:CE1	2.55	0.41
4:AD:46:GLN:HE22	4:AD:51:VAL:CG2	2.34	0.41
4:AD:59:LYS:O	4:AD:62:TYR:OH	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:122:ASP:HA	4:AD:135:PHE:CD2	2.56	0.41
4:AD:131:LEU:HG	4:AD:135:PHE:HD2	1.78	0.41
4:AD:208:LYS:HB3	4:AD:211:ARG:HG3	2.02	0.41
5:AE:8:LYS:CB	5:AE:24:THR:CG2	2.98	0.41
5:AE:13:ARG:NE	5:AE:21:VAL:CA	2.83	0.41
5:AE:49:LEU:HD11	5:AE:76:ARG:H	1.85	0.41
5:AE:104:VAL:HG22	5:AE:198:VAL:CA	2.49	0.41
5:AE:161:GLY:C	5:AE:163:GLU:OE1	2.63	0.41
6:AF:33:LEU:O	6:AF:34:TRP:C	2.60	0.41
6:AF:38:ARG:O	6:AF:42:ALA:CB	2.68	0.41
6:AF:71:GLY:C	6:AF:73:ALA:N	2.75	0.41
7:AG:143:GLU:HB2	7:AG:144:ILE:H	1.30	0.41
8:AH:76:VAL:O	8:AH:79:VAL:CG2	2.68	0.41
8:AH:105:LEU:O	8:AH:113:VAL:HG21	2.20	0.41
11:AK:10:GLU:HG2	11:AK:12:ARG:HH22	1.86	0.41
11:AK:54:VAL:HA	11:AK:130:HIS:HE1	1.86	0.41
11:AK:91:LEU:HA	11:AK:95:PRO:HA	2.03	0.41
11:AK:96:GLU:O	11:AK:99:LEU:CG	2.50	0.41
12:AL:63:VAL:HG21	12:AL:80:ASP:C	2.45	0.41
12:AL:86:ILE:CD1	12:AL:90:GLN:HG3	2.49	0.41
12:AL:90:GLN:CD	12:AL:110:GLY:O	2.62	0.41
13:AM:49:ARG:NH1	13:AM:49:ARG:CG	2.81	0.41
13:AM:126:VAL:HG23	13:AM:127:ALA:H	1.85	0.41
13:AM:129:ALA:C	13:AM:130:PHE:CD1	2.86	0.41
14:AN:40:ALA:O	14:AN:97:VAL:O	2.39	0.41
14:AN:64:ILE:HG22	14:AN:105:GLU:CB	2.50	0.41
15:AO:54:LEU:HA	15:AO:57:ARG:HB2	2.01	0.41
15:AO:67:LEU:C	15:AO:67:LEU:CD1	2.90	0.41
15:AO:98:LEU:CD2	15:AO:99:LYS:NZ	2.77	0.41
16:AP:70:GLY:O	16:AP:73:LEU:N	2.53	0.41
17:AQ:24:PRO:CG	17:AQ:25:GLY:N	2.73	0.41
17:AQ:50:ILE:CG2	17:AQ:68:TYR:CB	2.98	0.41
17:AQ:105:LEU:C	17:AQ:107:ASP:N	2.78	0.41
18:AR:24:TYR:N	18:AR:24:TYR:CD1	2.89	0.41
18:AR:111:GLU:O	18:AR:112:ARG:C	2.62	0.41
18:AR:112:ARG:HH22	19:AS:49:THR:CG2	2.22	0.41
20:AT:19:LEU:HD23	28:Ab:25:LEU:HD22	2.02	0.41
20:AT:88:ARG:HE	20:AT:88:ARG:C	2.29	0.41
21:AU:50:LYS:CG	21:AU:84:ALA:H	2.33	0.41
22:AV:10:GLY:N	22:AV:110:GLU:CD	2.79	0.41
25:AY:24:LYS:HA	25:AY:52:ILE:HD13	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:35:SER:CA	25:AY:38:GLN:OE1	2.66	0.41
28:Ab:35:GLU:OE1	28:Ab:51:TYR:CD1	2.74	0.41
32:Af:19:ARG:O	32:Af:19:ARG:CG	2.68	0.41
34:BA:41:G:C5	34:BA:42:G:N7	2.88	0.41
34:BA:51:A:H4'	34:BA:52:G:H5''	2.01	0.41
34:BA:130:A:C2	34:BA:264:U:H6	2.38	0.41
34:BA:255:G:P	50:BU:69:LYS:NZ	2.94	0.41
34:BA:255:G:C6	34:BA:256:U:C4	3.08	0.41
34:BA:266:G:H2'	34:BA:267:C:OP2	2.19	0.41
34:BA:310:G:C4	34:BA:311:C:C5	3.08	0.41
34:BA:354:G:N3	34:BA:355:C:C6	2.88	0.41
34:BA:418:C:O2'	34:BA:419:C:H5'	2.20	0.41
34:BA:455:C:O2'	34:BA:456:C:H5'	2.21	0.41
34:BA:518:C:O2'	45:BP:50:SER:CB	2.66	0.41
34:BA:565:U:H3'	34:BA:566:G:H8	1.86	0.41
34:BA:570:G:N2	34:BA:873:A:H61	2.18	0.41
34:BA:576:G:N7	34:BA:881:G:O4'	2.53	0.41
34:BA:780:A:H2	34:BA:803:G:O6	2.04	0.41
34:BA:782:A:C8	34:BA:783:C:C5	3.08	0.41
34:BA:938:A:C2'	34:BA:939:G:C5'	2.99	0.41
34:BA:969:A:C2'	43:BN:55:LYS:HZ1	2.29	0.41
34:BA:970:C:C5'	34:BA:972:C:C6	3.03	0.41
34:BA:973:G:N2	34:BA:974:A:H62	2.07	0.41
34:BA:993:G:N2	34:BA:1046:A:N3	2.68	0.41
34:BA:1068:G:H2'	34:BA:1069:C:O4'	2.20	0.41
34:BA:1093:A:H2	34:BA:1110:A:H1'	1.85	0.41
34:BA:1103:C:O2'	35:BF:111:ARG:CD	2.69	0.41
34:BA:1106:G:N2	34:BA:1107:C:C2	2.88	0.41
34:BA:1188:A:H2'	34:BA:1189:C:C6	2.56	0.41
34:BA:1201:A:H2'	34:BA:1202:G:OP2	2.19	0.41
34:BA:1221:G:C6	34:BA:1222:G:C5	3.08	0.41
34:BA:1226:C:O2	34:BA:1226:C:H2'	2.20	0.41
34:BA:1358:U:OP1	47:BR:35:ARG:HG3	2.21	0.41
34:BA:1371:G:C5	34:BA:1372:U:C6	3.08	0.41
34:BA:1387:G:O2'	34:BA:1388:C:H5'	2.21	0.41
34:BA:1521:G:N3	34:BA:1522:U:C6	2.89	0.41
34:BA:1536:C:C2	34:BA:1537:U:C5	3.08	0.41
34:BA:1540:U:C6	34:BA:1540:U:O5'	2.74	0.41
34:BA:1541:U:O2	34:BA:1541:U:H2'	2.20	0.41
35:BF:15:VAL:HG23	35:BF:16:HIS:HD1	1.82	0.41
35:BF:144:ARG:O	35:BF:147:LYS:N	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:213:LEU:HD21	35:BF:217:ARG:HE	1.85	0.41
36:BG:18:TRP:CE2	47:BR:55:GLY:O	2.74	0.41
36:BG:172:ARG:HH11	36:BG:172:ARG:HG2	1.86	0.41
37:BH:4:TYR:CZ	37:BH:5:ILE:O	2.73	0.41
37:BH:60:GLU:N	37:BH:63:LYS:HZ2	2.15	0.41
37:BH:94:LEU:CA	37:BH:97:LEU:HD12	2.42	0.41
38:BI:109:ILE:CD1	38:BI:139:LEU:HD11	2.50	0.41
39:BJ:23:LYS:HE3	39:BJ:61:LEU:HD11	2.02	0.41
39:BJ:78:GLU:HA	39:BJ:81:ILE:HD12	2.02	0.41
40:BK:69:VAL:HA	40:BK:135:VAL:HG13	2.02	0.41
40:BK:90:GLU:OE2	40:BK:90:GLU:N	2.54	0.41
40:BK:123:GLU:OE1	40:BK:134:ALA:N	2.45	0.41
41:BL:120:THR:O	41:BL:123:GLU:OE1	2.38	0.41
42:BM:16:ARG:HH12	42:BM:64:THR:HG21	1.86	0.41
42:BM:26:VAL:CG1	42:BM:63:ILE:HD13	2.51	0.41
42:BM:91:ASP:OD2	42:BM:91:ASP:C	2.64	0.41
44:BO:13:GLN:CD	44:BO:76:GLY:H	2.23	0.41
45:BP:57:LYS:HE2	45:BP:67:THR:CG2	2.50	0.41
45:BP:61:THR:O	45:BP:62:SER:CB	2.68	0.41
46:BQ:15:VAL:CG2	46:BQ:39:ILE:CB	2.89	0.41
46:BQ:19:LEU:HD21	46:BQ:30:ALA:HA	2.02	0.41
48:BS:13:GLN:C	48:BS:15:PHE:N	2.78	0.41
48:BS:21:ASP:O	48:BS:21:ASP:CG	2.62	0.41
49:BT:40:ASP:OD1	49:BT:48:TRP:HB2	2.20	0.41
51:BV:47:THR:N	51:BV:49:LYS:HE2	2.36	0.41
52:BW:64:GLU:CG	52:BW:65:ASN:H	2.34	0.41
53:BX:74:LYS:HD3	53:BX:74:LYS:H	1.85	0.41
53:BX:80:ARG:HA	53:BX:80:ARG:HD3	1.86	0.41
55:CA:75:THR:HG21	55:CA:85:VAL:HG22	0.51	0.41
55:CA:405:LEU:HD11	55:CA:464:LEU:HD22	1.61	0.41
55:CA:569:LEU:C	55:CA:571:PHE:H	2.28	0.41
1:AA:46:C:OP2	1:AA:215:G:C3'	2.55	0.41
1:AA:99:U:H5'	1:AA:101:G:H5'	2.00	0.41
1:AA:104:U:OP2	1:AA:105:C:C5	2.73	0.41
1:AA:121:G:O4'	1:AA:148:C:H2'	2.20	0.41
1:AA:247:G:O5'	1:AA:247:G:H8	2.04	0.41
1:AA:266:G:H2'	1:AA:267:C:O5'	2.21	0.41
1:AA:292:C:H41	1:AA:346:A:H62	1.67	0.41
1:AA:326:G:C4	1:AA:327:G:N7	2.89	0.41
1:AA:392:C:C2	1:AA:393:C:C5	3.09	0.41
1:AA:463:G:H3'	1:AA:463:G:C8	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:C:N3	1:AA:552:G:N1	2.69	0.41
1:AA:544:C:H2'	1:AA:545:G:C5'	2.50	0.41
1:AA:584:C:O2'	1:AA:585:G:H5'	2.21	0.41
1:AA:699:A:O5'	1:AA:699:A:H8	2.03	0.41
1:AA:729:G:C5	1:AA:730:C:H1'	2.54	0.41
1:AA:751:A:C4'	20:AT:90:ARG:CZ	2.99	0.41
1:AA:781:A:N3	1:AA:781:A:H2'	2.35	0.41
1:AA:796:C:H2'	1:AA:797:C:C6	2.55	0.41
1:AA:799:G:C5	1:AA:800:A:C6	3.09	0.41
1:AA:855:G:N2	24:AX:27:GLU:HB3	2.31	0.41
1:AA:861:A:P	1:AA:862:G:OP2	2.78	0.41
1:AA:876:C:C2	1:AA:902:C:C2	3.08	0.41
1:AA:932:G:N2	1:AA:933:A:C2	2.89	0.41
1:AA:956:G:C8	1:AA:956:G:C3'	3.04	0.41
1:AA:1052:C:HO2'	1:AA:1053:C:H5'	1.79	0.41
1:AA:1059:G:C6	1:AA:1080:C:N3	2.89	0.41
1:AA:1099:G:N3	1:AA:1099:G:H2'	2.36	0.41
1:AA:1151:G:H2'	1:AA:1152:C:H6	1.76	0.41
1:AA:1248:G:C8	18:AR:2:PRO:C	2.99	0.41
1:AA:1283:G:H22	1:AA:1286:A:C5'	2.33	0.41
1:AA:1322:A:OP1	20:AT:11:ARG:NE	2.47	0.41
1:AA:1333:C:N3	1:AA:1334:G:N7	2.69	0.41
1:AA:1359:A:C8	1:AA:1359:A:C3'	3.04	0.41
1:AA:1359:A:C6	1:AA:1360:A:C8	3.09	0.41
1:AA:1455:G:H2'	1:AA:1456:G:O4'	2.21	0.41
1:AA:1491:G:N1	1:AA:1500:G:C2	2.89	0.41
1:AA:1615:C:N3	20:AT:87:PRO:HG3	2.36	0.41
1:AA:1649:G:C6	1:AA:1650:G:N7	2.89	0.41
1:AA:1656:C:C5'	5:AE:136:ARG:CZ	2.98	0.41
1:AA:1702:G:C5	1:AA:1703:G:C8	3.08	0.41
1:AA:1706:U:O2	1:AA:1706:U:C2'	2.60	0.41
1:AA:1796:U:H2'	1:AA:1797:C:C6	2.55	0.41
1:AA:1820:U:O2'	1:AA:1821:A:P	2.78	0.41
1:AA:1825:A:C6	1:AA:1826:G:C6	3.08	0.41
1:AA:1841:U:C2	1:AA:1842:G:C8	3.08	0.41
1:AA:1889:A:C2	1:AA:1890:A:C4	3.09	0.41
1:AA:1946:U:C2'	1:AA:1947:C:O5'	2.68	0.41
1:AA:1972:A:C2	1:AA:1973:G:N7	2.89	0.41
1:AA:1999:C:O2'	1:AA:2722:G:N2	2.52	0.41
1:AA:2000:G:C6	1:AA:2001:A:N7	2.89	0.41
1:AA:2003:G:O6	1:AA:2004:G:C6	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2072:G:C2	1:AA:2073:C:C5	3.09	0.41
1:AA:2103:C:C2'	1:AA:2104:G:H8	2.13	0.41
1:AA:2167:U:O2	1:AA:2167:U:H2'	2.20	0.41
1:AA:2253:G:H2'	1:AA:2254:C:O5'	2.20	0.41
1:AA:2255:G:C2	1:AA:2256:G:N9	2.89	0.41
1:AA:2264:C:C2	1:AA:2277:G:N2	2.89	0.41
1:AA:2378:A:C4	16:AP:20:ARG:NH2	2.88	0.41
1:AA:2383:G:N2	1:AA:2384:G:C2	2.89	0.41
1:AA:2441:C:H2'	1:AA:2441:C:O2	2.20	0.41
1:AA:2484:G:H2'	1:AA:2485:G:C5'	2.46	0.41
1:AA:2531:A:H1'	1:AA:2658:C:O2'	2.21	0.41
1:AA:2533:A:H4'	1:AA:2664:G:O2'	2.16	0.41
1:AA:2586:C:C4	1:AA:2587:A:N6	2.87	0.41
1:AA:2603:G:C2'	1:AA:2604:U:H5'	2.50	0.41
1:AA:2627:G:O2'	1:AA:2628:C:H5'	2.20	0.41
1:AA:2741:A:C2	1:AA:2742:C:H1'	2.56	0.41
1:AA:2766:G:N3	1:AA:2767:C:C5	2.89	0.41
1:AA:2820:A:N6	5:AE:192:ASN:O	2.53	0.41
1:AA:2825:C:N4	1:AA:2826:A:N6	2.69	0.41
1:AA:2833:G:N3	1:AA:2833:G:C2'	2.79	0.41
1:AA:2848:G:HO2'	1:AA:2849:U:P	2.43	0.41
2:AB:2:C:OP2	2:AB:2:C:C6	2.74	0.41
2:AB:4:C:C5	2:AB:5:C:C5	3.09	0.41
2:AB:9:G:C4'	16:AP:43:GLU:OE2	2.62	0.41
2:AB:110:G:N3	2:AB:111:U:H1'	2.35	0.41
3:AC:6:ARG:C	3:AC:6:ARG:CD	2.71	0.41
3:AC:66:HIS:NE2	3:AC:184:LYS:HD3	2.36	0.41
3:AC:100:ILE:CG2	3:AC:126:LYS:HE2	2.51	0.41
3:AC:148:ASN:HD22	3:AC:151:GLU:HB2	1.84	0.41
3:AC:180:PHE:O	3:AC:181:PRO:C	2.64	0.41
3:AC:190:ARG:CG	3:AC:190:ARG:HH11	2.34	0.41
4:AD:22:SER:HA	4:AD:205:VAL:O	2.20	0.41
4:AD:53:PHE:CD1	4:AD:53:PHE:N	2.81	0.41
4:AD:208:LYS:O	4:AD:209:ALA:C	2.63	0.41
4:AD:217:ARG:HG3	4:AD:218:ARG:N	2.34	0.41
4:AD:243:GLY:O	4:AD:244:ARG:CG	2.68	0.41
4:AD:260:ARG:HH11	4:AD:260:ARG:HG3	1.78	0.41
5:AE:14:ILE:O	5:AE:14:ILE:CD1	2.69	0.41
5:AE:49:LEU:CD2	5:AE:76:ARG:O	2.66	0.41
5:AE:51:PHE:C	5:AE:52:LEU:HD23	2.46	0.41
5:AE:133:LYS:CE	5:AE:137:HIS:CB	2.97	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:12:LEU:HD22	6:AF:128:ALA:C	2.46	0.41
6:AF:114:VAL:CG2	6:AF:186:ILE:HD13	2.51	0.41
6:AF:156:LEU:CD1	6:AF:167:ALA:HB1	2.47	0.41
8:AH:8:PRO:N	8:AH:69:ARG:NH2	2.63	0.41
8:AH:25:LYS:HG3	8:AH:27:LYS:HG3	2.02	0.41
8:AH:85:LYS:NZ	8:AH:85:LYS:CB	2.83	0.41
10:AJ:84:LEU:C	10:AJ:86:LYS:H	2.29	0.41
11:AK:103:VAL:HG22	11:AK:104:LYS:CE	2.49	0.41
12:AL:24:VAL:H	12:AL:30:ALA:HB1	1.85	0.41
12:AL:64:ARG:HE	12:AL:66:LYS:C	2.28	0.41
12:AL:73:ASP:C	17:AQ:79:HIS:CE1	2.98	0.41
12:AL:88:ASN:HB2	12:AL:89:ASN:OD1	2.20	0.41
12:AL:111:PHE:HD1	12:AL:115:VAL:HG23	1.86	0.41
13:AM:74:GLU:HB2	13:AM:107:LYS:HD3	2.01	0.41
13:AM:81:GLN:O	13:AM:86:LYS:CG	2.68	0.41
13:AM:111:ARG:CD	13:AM:129:ALA:HB2	2.50	0.41
14:AN:8:LYS:NZ	14:AN:93:TYR:CD2	2.67	0.41
14:AN:37:LEU:CB	14:AN:38:GLU:OE1	2.69	0.41
14:AN:109:VAL:CG1	14:AN:114:ALA:H	2.32	0.41
15:AO:26:LYS:NZ	15:AO:70:LEU:O	2.32	0.41
15:AO:115:GLU:HG2	15:AO:116:LEU:O	2.20	0.41
16:AP:100:ALA:C	16:AP:102:ALA:N	2.77	0.41
18:AR:16:LYS:HG2	18:AR:20:LEU:CD2	2.46	0.41
18:AR:34:LYS:HA	18:AR:37:GLU:HB2	2.02	0.41
18:AR:46:ALA:N	18:AR:49:HIS:ND1	2.69	0.41
18:AR:97:ASP:O	18:AR:100:VAL:HG23	2.20	0.41
19:AS:10:LYS:C	19:AS:12:TYR:N	2.78	0.41
19:AS:20:LEU:O	19:AS:20:LEU:HG	2.21	0.41
19:AS:65:GLY:C	19:AS:66:ARG:HG2	2.37	0.41
20:AT:36:LEU:CD1	20:AT:47:VAL:HB	2.48	0.41
20:AT:88:ARG:O	20:AT:89:ALA:CB	2.69	0.41
21:AU:89:ILE:C	21:AU:92:LEU:HD13	2.45	0.41
23:AW:15:PRO:HB2	23:AW:19:ARG:NH1	2.35	0.41
23:AW:48:PHE:HZ	23:AW:86:VAL:HG11	1.73	0.41
23:AW:51:ALA:O	23:AW:53:ILE:N	2.51	0.41
23:AW:151:HIS:CG	23:AW:168:GLU:CG	3.03	0.41
23:AW:155:LEU:O	23:AW:156:LYS:CB	2.68	0.41
24:AX:21:LEU:HD11	24:AX:40:GLN:N	2.36	0.41
25:AY:50:ARG:CB	25:AY:54:ARG:HH22	2.30	0.41
25:AY:57:THR:O	25:AY:60:ASN:HB3	2.21	0.41
26:AZ:41:PRO:HG3	26:AZ:44:ARG:NH2	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ab:56:LYS:C	28:Ab:57:VAL:CG1	2.93	0.41
31:Ae:42:ARG:CB	31:Ae:43:GLN:HE22	2.25	0.41
32:Af:2:LYS:O	32:Af:3:VAL:CG2	2.58	0.41
33:Ag:4:UNK:C	33:Ag:6:UNK:N	2.83	0.41
34:BA:22:G:N3	34:BA:23:C:C6	2.89	0.41
34:BA:52:G:O2'	34:BA:53:A:C5'	2.68	0.41
34:BA:62:U:H2'	34:BA:63:C:C6	2.55	0.41
34:BA:74:C:O2'	34:BA:75:C:H5'	2.21	0.41
34:BA:186(B):C:H4'	53:BX:89:ARG:HH22	1.84	0.41
34:BA:193:C:O2'	34:BA:194:C:C5'	2.69	0.41
34:BA:255:G:OP1	50:BU:69:LYS:NZ	2.53	0.41
34:BA:265:G:H5''	50:BU:65:ILE:HA	2.03	0.41
34:BA:279:A:C2	50:BU:98:LEU:HG	2.47	0.41
34:BA:378:G:C4	34:BA:379:C:C5	3.09	0.41
34:BA:409:G:OP2	37:BH:22:LYS:HE2	2.20	0.41
34:BA:468:A:H4'	49:BT:82:GLN:CB	2.37	0.41
34:BA:475:G:C4	34:BA:476:G:N7	2.89	0.41
34:BA:520:A:H3'	34:BA:520:A:C8	2.56	0.41
34:BA:606:G:C2	34:BA:631:G:C2	3.08	0.41
34:BA:619:U:O2	34:BA:619:U:C2'	2.67	0.41
34:BA:690:G:C2'	34:BA:691:G:O5'	2.69	0.41
34:BA:730:G:C2'	34:BA:731:G:H5'	2.49	0.41
34:BA:740:U:OP2	48:BS:2:PRO:HB3	2.20	0.41
34:BA:755:G:H2'	34:BA:756:C:H6	1.83	0.41
34:BA:755:G:OP2	48:BS:65:ARG:HD2	2.19	0.41
34:BA:796:C:OP1	44:BO:123:LYS:HD3	2.20	0.41
34:BA:833:U:H2'	34:BA:834:C:H6	1.85	0.41
34:BA:835:U:O2	34:BA:852:G:N2	2.53	0.41
34:BA:838:G:N2	34:BA:849:C:C2	2.88	0.41
34:BA:934:C:N4	34:BA:1344:C:C2	2.78	0.41
34:BA:942:G:N2	34:BA:943:U:C2	2.88	0.41
34:BA:949:A:OP1	46:BQ:101:GLN:CD	2.64	0.41
34:BA:957:U:O2	34:BA:960:U:C6	2.73	0.41
34:BA:1001:G:C8	34:BA:1001:G:C3'	3.04	0.41
34:BA:1033:G:C2	34:BA:1034:G:C4	3.09	0.41
34:BA:1169:A:C5	34:BA:1170:A:N1	2.89	0.41
34:BA:1171:G:H2'	34:BA:1172:C:H6	1.78	0.41
34:BA:1185:G:H2'	34:BA:1186:G:H5'	2.02	0.41
34:BA:1245:A:C6	34:BA:1293:G:N1	2.89	0.41
34:BA:1302:U:H4'	34:BA:1303:C:OP1	2.20	0.41
34:BA:1331:G:HO2'	34:BA:1332:A:P	2.43	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1360:A:C2	34:BA:1361:G:C4	3.09	0.41
34:BA:1375:A:C2	34:BA:1376:U:O2	2.71	0.41
35:BF:42:ILE:HD12	35:BF:203:GLY:N	2.36	0.41
35:BF:59:GLU:HA	35:BF:221:LEU:HD11	2.01	0.41
35:BF:80:ILE:CG2	35:BF:212:GLN:HE21	2.34	0.41
35:BF:84:GLU:OE2	35:BF:84:GLU:CA	2.68	0.41
35:BF:187:LEU:HB2	35:BF:201:ILE:HG22	2.02	0.41
35:BF:201:ILE:HD12	35:BF:201:ILE:H	1.86	0.41
36:BG:52:LEU:O	36:BG:115:LEU:HD21	2.21	0.41
37:BH:15:GLU:HG2	37:BH:63:LYS:HB2	1.99	0.41
37:BH:31:CYS:O	37:BH:33:MET:SD	2.78	0.41
37:BH:200:GLU:C	37:BH:204:ILE:CD1	2.94	0.41
38:BI:95:ALA:HB3	38:BI:96:PRO:HD3	2.03	0.41
39:BJ:2:ARG:CD	39:BJ:69:GLU:HG2	2.51	0.41
40:BK:21:VAL:HG23	40:BK:22:LEU:HD23	2.03	0.41
41:BL:32:LYS:CG	41:BL:59:LEU:HD12	2.51	0.41
41:BL:36:LEU:O	41:BL:39:LEU:HB2	2.18	0.41
41:BL:49:GLU:CG	41:BL:62:TYR:OH	2.69	0.41
41:BL:50:ARG:NH1	41:BL:50:ARG:CG	2.77	0.41
43:BN:51:ARG:N	43:BN:60:ARG:HA	2.35	0.41
44:BO:86:GLY:N	44:BO:112:THR:HG23	2.35	0.41
46:BQ:19:LEU:O	46:BQ:21:TYR:N	2.54	0.41
46:BQ:69:GLU:OE1	46:BQ:72:ALA:CB	2.69	0.41
48:BS:79:ARG:HG3	48:BS:82:ILE:HD12	2.02	0.41
49:BT:34:GLU:OE1	49:BT:36:ILE:HG23	2.20	0.41
49:BT:75:ARG:HA	49:BT:80:PHE:HB3	2.03	0.41
51:BV:53:ARG:O	51:BV:55:ARG:N	2.54	0.41
53:BX:56:MET:O	53:BX:56:MET:SD	2.78	0.41
55:CA:57:LEU:HB3	55:CA:58:ALA:H	1.72	0.41
55:CA:338:GLU:HG3	55:CA:345:LEU:HD22	2.02	0.41
55:CA:417:GLN:CD	55:CA:418:ALA:N	2.79	0.41
1:AA:54:G:N2	1:AA:55:G:C4	2.89	0.41
1:AA:70:G:H2'	1:AA:114:U:C6	2.56	0.41
1:AA:70:G:C2'	1:AA:71:A:H5'	2.50	0.41
1:AA:83:G:O2'	1:AA:84:A:O5'	2.38	0.41
1:AA:118:A:C8	1:AA:119:A:C8	3.09	0.41
1:AA:119:A:C3'	1:AA:120:U:H5'	2.51	0.41
1:AA:149:A:H8	1:AA:150:C:O4'	2.01	0.41
1:AA:150:C:O2	1:AA:150:C:C2'	2.49	0.41
1:AA:192:C:OP1	1:AA:2243:U:OP1	2.38	0.41
1:AA:216:A:O2'	1:AA:217:G:O4'	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:234:C:O2'	1:AA:235:U:H5'	2.21	0.41
1:AA:241:A:O4'	1:AA:241:A:P	2.79	0.41
1:AA:283:A:H3'	1:AA:283:A:OP1	2.20	0.41
1:AA:299:A:C6	1:AA:322:A:C4	3.09	0.41
1:AA:312:G:N3	1:AA:313:C:C5	2.89	0.41
1:AA:331:A:C4	1:AA:1209:G:N1	2.89	0.41
1:AA:358:U:OP2	1:AA:359:A:N7	2.54	0.41
1:AA:412:A:H2'	1:AA:413:C:H5'	2.01	0.41
1:AA:428:A:H3'	1:AA:429:A:C8	2.56	0.41
1:AA:448:U:O4	1:AA:583:G:C1'	2.60	0.41
1:AA:458:G:O2'	30:Ad:40:TRP:CZ2	2.67	0.41
1:AA:459:U:O2'	1:AA:460:A:H5'	2.20	0.41
1:AA:470:A:H2'	1:AA:471:A:C4'	2.51	0.41
1:AA:491:G:C4	1:AA:492:A:C8	3.08	0.41
1:AA:514:A:HO2'	18:AR:32:PHE:HZ	1.68	0.41
1:AA:545:G:O5'	1:AA:545:G:C8	2.74	0.41
1:AA:558:G:O2'	1:AA:559:G:H5'	2.20	0.41
1:AA:569:U:OP2	1:AA:945:A:N6	2.54	0.41
1:AA:600:G:N3	1:AA:600:G:H2'	2.35	0.41
1:AA:601:C:H2'	1:AA:602:G:H5'	2.03	0.41
1:AA:636:G:P	13:AM:132:LYS:HG3	2.61	0.41
1:AA:650:C:O2	1:AA:650:C:C2'	2.68	0.41
1:AA:666:G:H2'	1:AA:667:U:H6	1.79	0.41
1:AA:667:U:C4	1:AA:668:G:N7	2.89	0.41
1:AA:716:A:C2	48:BS:43:LEU:HB3	2.56	0.41
1:AA:730:C:O5'	1:AA:761:A:OP1	2.38	0.41
1:AA:746:A:C2'	1:AA:747:U:OP2	2.69	0.41
1:AA:763:G:N1	1:AA:765:G:C4	2.88	0.41
1:AA:771:G:N2	1:AA:772:C:C2	2.89	0.41
1:AA:838:C:O2'	1:AA:839:U:H5'	2.21	0.41
1:AA:838:C:O2'	1:AA:839:U:C5'	2.69	0.41
1:AA:840:C:O2'	1:AA:841:A:H5'	2.21	0.41
1:AA:844:C:OP2	1:AA:845:G:C5	2.74	0.41
1:AA:850:C:O2'	26:AZ:46:ASN:ND2	2.54	0.41
1:AA:869:G:C2'	1:AA:870:A:C5'	2.80	0.41
1:AA:876:C:H2'	1:AA:877:U:H6	1.85	0.41
1:AA:876:C:N3	1:AA:902:C:C2	2.88	0.41
1:AA:967:C:O2'	1:AA:968:G:H5'	2.20	0.41
1:AA:993:G:C1'	19:AS:91:TYR:CE1	2.87	0.41
1:AA:1027:A:C2'	1:AA:1028:A:H8	2.33	0.41
1:AA:1034:G:C4	1:AA:1122:G:C6	3.07	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1082:U:O5'	1:AA:1082:U:H6	2.03	0.41
1:AA:1157:G:C2	1:AA:1158:C:C2	3.09	0.41
1:AA:1183:G:N3	1:AA:1183:G:O4'	2.53	0.41
1:AA:1190:G:OP1	13:AM:30:THR:C	2.64	0.41
1:AA:1213:A:C8	1:AA:1237:A:C2	3.09	0.41
1:AA:1234:U:C4	1:AA:1235:G:C2	3.08	0.41
1:AA:1255:U:OP1	1:AA:1256:G:H4'	2.20	0.41
1:AA:1300:U:O2	1:AA:1301:A:N6	2.54	0.41
1:AA:1332:G:C6	1:AA:1609:A:C6	3.09	0.41
1:AA:1356:G:H2'	1:AA:1357:U:C5'	2.51	0.41
1:AA:1373:A:N7	1:AA:1374:G:N7	2.69	0.41
1:AA:1395:A:C6	1:AA:1398:C:C2	3.09	0.41
1:AA:1419:A:C8	1:AA:1421:G:O6	2.74	0.41
1:AA:1530:G:N2	1:AA:1541:U:H2'	2.23	0.41
1:AA:1558:A:H4'	1:AA:1559:G:N7	2.35	0.41
1:AA:1571:A:OP2	1:AA:1571:A:O4'	2.39	0.41
1:AA:1593:G:H2'	1:AA:1594:G:H8	1.85	0.41
1:AA:1613:G:N7	1:AA:1617:C:C5	2.89	0.41
1:AA:1630:G:H2'	1:AA:1630(A):C:C6	2.48	0.41
1:AA:1649:G:N1	1:AA:1650:G:N7	2.69	0.41
1:AA:1651:G:O3'	1:AA:1652:A:O4'	2.38	0.41
1:AA:1655:A:H3'	1:AA:1656:C:C6	2.51	0.41
1:AA:1676:A:C2'	1:AA:1677:A:O5'	2.68	0.41
1:AA:1696:G:H2'	1:AA:1697:G:C1'	2.51	0.41
1:AA:1731:G:N2	1:AA:1733:G:C2	2.88	0.41
1:AA:1742:C:O4'	1:AA:1742:C:P	2.79	0.41
1:AA:1769:G:C2	1:AA:1984:G:C4	3.09	0.41
1:AA:1788:C:C1'	4:AD:222:ARG:HH21	2.32	0.41
1:AA:1789:A:H5'	1:AA:1790:C:OP2	2.21	0.41
1:AA:1906:G:C6	1:AA:1929:G:C2	3.08	0.41
1:AA:1920:C:C5	1:AA:1921:G:N7	2.89	0.41
1:AA:1920:C:C2	1:AA:1921:G:C8	3.08	0.41
1:AA:1940:U:H4'	1:AA:1941:C:OP1	2.21	0.41
1:AA:1956:U:O2'	1:AA:1985:G:C5'	2.69	0.41
1:AA:1970:A:C6	1:AA:1972:A:N7	2.89	0.41
1:AA:1982:C:H5''	1:AA:1983:C:OP2	2.21	0.41
1:AA:2014:A:C2'	1:AA:2015:A:OP2	2.69	0.41
1:AA:2017:U:C1'	28:Ab:8:LYS:O	2.69	0.41
1:AA:2018:G:O6	1:AA:2035:G:C6	2.74	0.41
1:AA:2018:G:O2'	1:AA:2019:A:O4'	2.37	0.41
1:AA:2027:G:C4	1:AA:2037:G:N1	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2045:C:O2'	1:AA:2046:G:C5'	2.69	0.41
1:AA:2150:U:H2'	1:AA:2151:G:C8	2.50	0.41
1:AA:2155:G:C2'	1:AA:2156:G:O5'	2.68	0.41
1:AA:2161:C:N3	1:AA:2162:G:N7	2.68	0.41
1:AA:2207:C:C3'	1:AA:2208:U:C5'	2.98	0.41
1:AA:2227:A:C4'	4:AD:262:ARG:CG	2.99	0.41
1:AA:2256:G:C6	1:AA:2257:U:C4	3.08	0.41
1:AA:2334:G:H22	2:AB:12:C:N4	2.03	0.41
1:AA:2354:G:O2'	1:AA:2355:C:H5'	2.20	0.41
1:AA:2360:A:OP1	31:Ae:49:VAL:HG22	2.20	0.41
1:AA:2371:G:N2	1:AA:2372:G:C2	2.88	0.41
1:AA:2373:G:N3	1:AA:2374:C:C4	2.89	0.41
1:AA:2390:U:HO2'	1:AA:2391:G:H5'	1.80	0.41
1:AA:2392:A:C2'	1:AA:2393:A:H5'	2.51	0.41
1:AA:2414:G:O6	1:AA:2415:G:O6	2.38	0.41
1:AA:2511:U:O4	1:AA:2512:C:N4	2.54	0.41
1:AA:2569:G:C5	1:AA:2570:G:N7	2.89	0.41
1:AA:2578:G:O2'	1:AA:2579:C:P	2.79	0.41
1:AA:2578:G:N7	5:AE:140:SER:CB	2.84	0.41
1:AA:2640:G:C5	1:AA:2641:G:N7	2.88	0.41
1:AA:2675:A:C5'	12:AL:29:ASN:HB3	2.51	0.41
1:AA:2688:U:N3	1:AA:2719:G:C2	2.89	0.41
1:AA:2691:C:N3	1:AA:2719:G:C2	2.88	0.41
1:AA:2694:G:N2	1:AA:2716:U:C2	2.89	0.41
1:AA:2705:A:C2'	1:AA:2706:G:O5'	2.66	0.41
1:AA:2729:G:H2'	1:AA:2730:C:O4'	2.20	0.41
1:AA:2744:G:C2	1:AA:2761:G:C4	3.08	0.41
1:AA:2792:G:N1	1:AA:2793:G:C5	2.89	0.41
1:AA:2794:C:H42	1:AA:2799:A:H1'	1.85	0.41
1:AA:2823:A:C5'	1:AA:2824:C:OP2	2.69	0.41
1:AA:2870:C:O2	1:AA:2871:C:H1'	2.21	0.41
1:AA:2886:G:H21	1:AA:2887:U:H1'	1.85	0.41
2:AB:66:A:H2	2:AB:108:C:C1'	2.33	0.41
2:AB:73:A:C2'	2:AB:74:U:O5'	2.69	0.41
2:AB:115:G:H4'	16:AP:50:SER:HB3	2.02	0.41
2:AB:118:G:C4	2:AB:119:A:N7	2.89	0.41
3:AC:59:ARG:NH2	3:AC:164:ARG:NH1	2.69	0.41
3:AC:65:PRO:O	3:AC:66:HIS:CB	2.68	0.41
3:AC:77:ILE:C	3:AC:119:VAL:HG21	2.45	0.41
3:AC:81:GLU:OE2	3:AC:82:LYS:CD	2.67	0.41
3:AC:97:GLU:CB	3:AC:100:ILE:HD12	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:51:VAL:HG12	4:AD:52:ARG:HD3	2.02	0.41
4:AD:66:ASP:OD2	4:AD:103:ARG:CD	2.63	0.41
4:AD:105:ILE:HD11	4:AD:106:ILE:HG23	2.03	0.41
4:AD:112:GLN:O	4:AD:113:VAL:C	2.64	0.41
4:AD:173:VAL:O	4:AD:184:LYS:HG3	2.20	0.41
4:AD:178:PRO:O	4:AD:179:SER:C	2.63	0.41
4:AD:208:LYS:NZ	4:AD:211:ARG:HH21	2.11	0.41
4:AD:209:ALA:O	4:AD:213:ARG:CG	2.67	0.41
4:AD:244:ARG:CA	4:AD:252:TRP:NE1	2.84	0.41
5:AE:5:LEU:CD1	5:AE:196:VAL:C	2.93	0.41
5:AE:49:LEU:HD12	5:AE:50:GLY:N	2.34	0.41
5:AE:61:ARG:CB	5:AE:62:PRO:CD	2.99	0.41
5:AE:93:VAL:CG1	5:AE:180:ASN:HD21	2.30	0.41
5:AE:111:ARG:HB3	5:AE:112:GLY:H	1.37	0.41
5:AE:113:PHE:HA	5:AE:158:GLY:CA	2.51	0.41
5:AE:159:HIS:CE1	5:AE:162:ALA:HB3	2.56	0.41
5:AE:174:ASP:CG	5:AE:175:VAL:N	2.78	0.41
6:AF:5:ALA:O	6:AF:7:TYR:HD1	2.03	0.41
6:AF:11:VAL:CB	6:AF:17:ARG:HH12	2.34	0.41
6:AF:90:PHE:O	6:AF:91:GLY:O	2.39	0.41
6:AF:133:ASN:HD22	6:AF:133:ASN:HA	1.45	0.41
6:AF:136:THR:O	6:AF:139:PHE:N	2.53	0.41
7:AG:33:ARG:NH1	7:AG:34:LEU:CA	2.84	0.41
7:AG:53:LEU:HD12	7:AG:53:LEU:N	2.35	0.41
7:AG:72:ARG:HA	7:AG:88:ILE:CD1	2.51	0.41
7:AG:120:LEU:HA	7:AG:181:ARG:CG	2.51	0.41
7:AG:131:TYR:CE1	7:AG:133:LEU:O	2.65	0.41
7:AG:153:ARG:HA	7:AG:155:MET:SD	2.61	0.41
8:AH:41:MET:HE3	8:AH:68:THR:HG21	2.03	0.41
8:AH:91:GLY:O	8:AH:92:ILE:C	2.64	0.41
8:AH:97:ARG:CB	8:AH:97:ARG:HH11	2.34	0.41
9:AI:30:GLN:C	9:AI:32:LEU:N	2.78	0.41
9:AI:131:MET:C	9:AI:133:GLU:N	2.76	0.41
11:AK:39:ARG:HG2	11:AK:40:PRO:HD2	2.02	0.41
11:AK:57:ALA:HB3	11:AK:124:ALA:CB	2.51	0.41
11:AK:101:HIS:O	11:AK:102:ALA:C	2.63	0.41
11:AK:103:VAL:C	11:AK:105:GLY:N	2.71	0.41
11:AK:126:PRO:HG2	11:AK:128:HIS:ND1	2.36	0.41
11:AK:136:GLU:C	11:AK:137:LYS:CG	2.94	0.41
12:AL:10:VAL:HG13	12:AL:14:THR:HG21	2.03	0.41
12:AL:71:ARG:HB2	12:AL:72:PRO:HD3	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:40:SER:O	13:AM:42:SER:N	2.50	0.41
13:AM:81:GLN:HE22	13:AM:123:LEU:CD2	2.33	0.41
13:AM:97:PRO:N	13:AM:102:ARG:NH1	2.69	0.41
13:AM:126:VAL:O	13:AM:127:ALA:CB	2.67	0.41
14:AN:6:ARG:CD	14:AN:7:MET:N	2.84	0.41
14:AN:16:ARG:HH11	14:AN:72:LYS:HG2	1.86	0.41
14:AN:37:LEU:HB2	14:AN:129:THR:HA	2.01	0.41
14:AN:63:LYS:CD	14:AN:64:ILE:N	2.76	0.41
14:AN:97:VAL:N	14:AN:98:LYS:HE2	2.36	0.41
15:AO:9:LYS:O	15:AO:10:LEU:HD23	2.20	0.41
15:AO:43:GLU:C	15:AO:45:ARG:N	2.78	0.41
15:AO:45:ARG:HB2	15:AO:97:VAL:CG2	2.51	0.41
15:AO:96:ARG:CD	15:AO:98:LEU:HD11	2.51	0.41
15:AO:109:ALA:O	15:AO:111:LEU:HG	2.20	0.41
16:AP:26:LEU:H	16:AP:88:ASP:CB	2.31	0.41
16:AP:29:PHE:CD1	16:AP:29:PHE:C	2.97	0.41
16:AP:59:LYS:H	16:AP:59:LYS:HD3	1.86	0.41
16:AP:59:LYS:N	16:AP:59:LYS:CD	2.84	0.41
16:AP:71:ARG:HA	16:AP:104:GLY:O	2.20	0.41
17:AQ:10:VAL:O	17:AQ:13:ARG:CB	2.49	0.41
17:AQ:15:VAL:HG11	17:AQ:18:ASP:OD1	2.20	0.41
17:AQ:75:ILE:HG13	17:AQ:75:ILE:H	1.44	0.41
18:AR:57:PHE:O	18:AR:60:LEU:N	2.54	0.41
19:AS:3:ALA:CA	19:AS:44:LYS:HZ2	2.33	0.41
19:AS:5:VAL:HG12	19:AS:37:VAL:CG2	2.50	0.41
19:AS:12:TYR:CE1	19:AS:14:VAL:HG23	2.56	0.41
19:AS:20:LEU:HD22	19:AS:68:LYS:HZ1	1.86	0.41
19:AS:28:GLU:CD	19:AS:94:LEU:HB2	2.45	0.41
20:AT:42:ARG:C	20:AT:44:ALA:H	2.29	0.41
21:AU:33:LYS:O	21:AU:34:ALA:C	2.64	0.41
22:AV:31:LEU:CB	22:AV:32:PRO:CD	2.88	0.41
23:AW:9:TYR:HB2	23:AW:14:LYS:HG3	1.98	0.41
23:AW:16:SER:OG	23:AW:17:ALA:N	2.54	0.41
23:AW:18:LEU:HB3	23:AW:23:LYS:HB3	2.03	0.41
23:AW:20:ARG:CG	23:AW:20:ARG:NH1	2.82	0.41
23:AW:23:LYS:HE3	23:AW:38:TYR:CB	2.51	0.41
23:AW:24:LEU:HD12	23:AW:41:LEU:CD2	2.50	0.41
23:AW:40:ASP:N	23:AW:44:PHE:CE1	2.89	0.41
23:AW:130:PRO:C	23:AW:132:ASN:N	2.79	0.41
23:AW:177:PRO:CG	23:AW:178:GLU:N	2.69	0.41
25:AY:10:LYS:HD3	25:AY:10:LYS:N	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:27:LEU:CD1	25:AY:48:LEU:HD23	2.50	0.41
27:Aa:22:ILE:N	27:Aa:22:ILE:CD1	2.84	0.41
27:Aa:42:PHE:O	27:Aa:57:GLU:HA	2.20	0.41
29:Ac:17:LYS:HZ2	29:Ac:50:ARG:CB	2.31	0.41
29:Ac:17:LYS:HE2	29:Ac:49:HIS:C	2.46	0.41
29:Ac:33:LYS:HZ3	29:Ac:34:LEU:HD23	1.85	0.41
30:Ad:33:ARG:O	30:Ad:37:LYS:HG3	2.21	0.41
30:Ad:34:ARG:NH2	30:Ad:42:LEU:HG	2.34	0.41
31:Ae:15:LYS:O	31:Ae:22:VAL:CB	2.68	0.41
31:Ae:29:LYS:HZ3	31:Ae:36:LYS:NZ	2.19	0.41
31:Ae:40:GLU:O	31:Ae:42:ARG:N	2.54	0.41
33:Ag:335:UNK:C	33:Ag:345:UNK:CB	2.98	0.41
34:BA:27:G:H8	34:BA:27:G:P	2.44	0.41
34:BA:47:C:H5	34:BA:365:U:H2'	1.86	0.41
34:BA:50:A:C2	34:BA:360:A:O2'	2.64	0.41
34:BA:50:A:H61	34:BA:361:G:C5'	2.33	0.41
34:BA:68:G:C5'	34:BA:171:A:H1'	2.50	0.41
34:BA:129(A):G:C2'	34:BA:189:U:C6	2.88	0.41
34:BA:149:A:C2	34:BA:150:C:N3	2.89	0.41
34:BA:172:A:N7	34:BA:174:C:C4	2.89	0.41
34:BA:174:C:OP1	34:BA:197:A:H2	2.03	0.41
34:BA:186(A):C:O4'	53:BX:85:MET:SD	2.79	0.41
34:BA:186(B):C:C4'	53:BX:89:ARG:NH2	2.83	0.41
34:BA:217:C:C4	34:BA:218:C:C4	3.09	0.41
34:BA:220:G:H2'	34:BA:221:C:O5'	2.21	0.41
34:BA:222:U:C2	34:BA:223:U:C5	3.09	0.41
34:BA:236:G:N3	34:BA:236:G:C2'	2.83	0.41
34:BA:254:G:O2'	50:BU:18:THR:OG1	2.35	0.41
34:BA:299:G:C2'	34:BA:300:A:N7	2.73	0.41
34:BA:317:G:C2'	34:BA:318:G:C5'	2.99	0.41
34:BA:328:C:O2	34:BA:328:C:C3'	2.68	0.41
34:BA:335:C:H4'	34:BA:1434:A:H4'	2.02	0.41
34:BA:391:G:O6	34:BA:392:G:C6	2.74	0.41
34:BA:406:G:C8	34:BA:495:A:C2	3.09	0.41
34:BA:426:G:C2	34:BA:427:U:C2	3.09	0.41
34:BA:448:A:C5	34:BA:487:A:C2	3.08	0.41
34:BA:467:G:O2'	34:BA:468:A:H5'	2.21	0.41
34:BA:541:G:H2'	34:BA:542:G:C8	2.53	0.41
34:BA:570:G:OP2	34:BA:820:U:O2'	2.39	0.41
34:BA:577:G:C1'	34:BA:816:A:C2	3.03	0.41
34:BA:589:C:H1'	34:BA:653:A:N6	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:599:C:O3'	41:BL:96:GLY:HA3	2.21	0.41
34:BA:637:G:C2	34:BA:638:G:C8	3.08	0.41
34:BA:716:A:HO2'	44:BO:117:ASN:C	2.29	0.41
34:BA:834:C:O2'	34:BA:835:U:C4'	2.69	0.41
34:BA:869:G:H5''	34:BA:870:U:OP1	2.20	0.41
34:BA:885:G:O2'	34:BA:915:A:C2	2.74	0.41
34:BA:894:G:C6	34:BA:895:G:N7	2.89	0.41
34:BA:938:A:C2	34:BA:939:G:N9	2.89	0.41
34:BA:986:A:H2	52:BW:52:TYR:OH	2.02	0.41
34:BA:991:U:O2'	34:BA:993:G:H1'	2.21	0.41
34:BA:1025:U:C2'	34:BA:1026:G:C8	3.04	0.41
34:BA:1032:A:C4	34:BA:1032(A):G:H1'	2.56	0.41
34:BA:1080:A:H8	34:BA:1080:A:O5'	2.04	0.41
34:BA:1080:A:O5'	34:BA:1080:A:C8	2.74	0.41
34:BA:1081:G:OP1	38:BI:18:ARG:CB	2.68	0.41
34:BA:1092:A:C8	34:BA:1183:A:N7	2.89	0.41
34:BA:1102:A:N1	34:BA:1103:C:C4	2.89	0.41
34:BA:1124:G:OP1	43:BN:36:GLY:HA3	2.20	0.41
34:BA:1139:G:C6	34:BA:1143:G:O6	2.74	0.41
34:BA:1167:A:C2	34:BA:1169:A:C5	3.09	0.41
34:BA:1167:A:N1	34:BA:1169:A:C2	2.89	0.41
34:BA:1170:A:C8	34:BA:1170:A:H3'	2.56	0.41
34:BA:1175:G:H2'	34:BA:1176:A:C8	2.55	0.41
34:BA:1181:G:H2'	34:BA:1182:G:C5'	2.51	0.41
34:BA:1202:G:N7	43:BN:53:PRO:HB3	2.36	0.41
34:BA:1206:G:C6	34:BA:1207:G:C5	3.09	0.41
34:BA:1229:A:O2'	34:BA:1230:C:O4'	2.29	0.41
34:BA:1270:C:C4	34:BA:1271:G:N7	2.89	0.41
34:BA:1311:G:H1'	34:BA:1327:C:H1'	2.02	0.41
34:BA:1313:U:N3	34:BA:1325:C:O2	2.54	0.41
34:BA:1329:A:H5'	46:BQ:29:ARG:HH21	1.13	0.41
34:BA:1331:G:O6	54:BY:7:ARG:NH2	2.54	0.41
34:BA:1363:A:H1'	34:BA:1365:G:N7	2.35	0.41
34:BA:1395:C:O2'	34:BA:1396:A:O5'	2.39	0.41
34:BA:1405:G:C6	34:BA:1497:G:N1	2.88	0.41
34:BA:1422:G:N1	34:BA:1423:G:C6	2.89	0.41
34:BA:1438:G:H2'	34:BA:1439:C:C5'	2.50	0.41
34:BA:1479:C:O2'	34:BA:1480:G:C5'	2.65	0.41
34:BA:1481:U:C2'	34:BA:1482:G:C8	2.96	0.41
34:BA:1486:G:N2	34:BA:1487:G:N3	2.56	0.41
34:BA:1494:G:H1'	34:BA:1495:U:OP1	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1499:A:H8	34:BA:1500:A:N7	2.09	0.41
35:BF:50:GLU:O	35:BF:53:ARG:HB3	2.21	0.41
35:BF:53:ARG:O	35:BF:54:THR:C	2.64	0.41
35:BF:61:LEU:C	35:BF:64:ARG:HD2	2.46	0.41
35:BF:99:GLY:C	35:BF:101:MET:H	2.26	0.41
35:BF:108:ILE:O	35:BF:112:VAL:HG23	2.21	0.41
35:BF:213:LEU:O	35:BF:216:SER:HB3	2.21	0.41
35:BF:216:SER:O	35:BF:217:ARG:C	2.64	0.41
35:BF:221:LEU:HD13	35:BF:222:ILE:HA	2.03	0.41
35:BF:223:ILE:HA	35:BF:226:ARG:HE	1.86	0.41
36:BG:64:VAL:HB	36:BG:99:VAL:HG11	2.03	0.41
36:BG:113:ALA:HB3	36:BG:183:ASP:CG	2.46	0.41
36:BG:196:LEU:N	36:BG:196:LEU:CD2	2.82	0.41
37:BH:57:ARG:HH22	38:BI:107:ARG:HE	1.65	0.41
37:BH:61:LYS:C	37:BH:61:LYS:HE3	2.46	0.41
37:BH:106:TYR:CZ	37:BH:112:VAL:O	2.73	0.41
37:BH:106:TYR:O	37:BH:108:LEU:N	2.54	0.41
37:BH:160:GLN:OE1	37:BH:160:GLN:HA	2.20	0.41
37:BH:193:ASP:C	37:BH:194:LEU:HD13	2.46	0.41
38:BI:11:ILE:CD1	38:BI:104:ALA:HB1	2.47	0.41
38:BI:31:LEU:HB2	38:BI:129:ILE:HG23	2.03	0.41
38:BI:43:LEU:HB3	38:BI:136:MET:HE1	1.98	0.41
38:BI:84:PHE:HB2	38:BI:134:ALA:HA	2.03	0.41
39:BJ:3:ARG:O	39:BJ:93:SER:CB	2.69	0.41
39:BJ:11:ASN:ND2	39:BJ:86:ARG:NH2	2.60	0.41
39:BJ:11:ASN:HB3	39:BJ:84:ASN:HB3	2.03	0.41
39:BJ:56:PRO:HD2	39:BJ:57:GLN:OE1	2.21	0.41
40:BK:16:LEU:O	42:BM:41:VAL:CG1	2.69	0.41
40:BK:26:PHE:O	40:BK:29:LYS:HB2	2.21	0.41
40:BK:55:GLY:O	40:BK:56:GLN:C	2.64	0.41
40:BK:80:VAL:HG12	40:BK:81:GLY:N	2.36	0.41
40:BK:113:GLU:OE1	40:BK:122:HIS:ND1	2.54	0.41
41:BL:45:ILE:C	41:BL:47:GLY:N	2.78	0.41
41:BL:86:ILE:CB	41:BL:133:LEU:HB2	2.50	0.41
41:BL:120:THR:O	41:BL:121:ASP:C	2.64	0.41
42:BM:31:GLN:HG2	42:BM:35:GLU:OE1	2.21	0.41
42:BM:47:LEU:HD11	42:BM:56:LEU:CD1	2.51	0.41
42:BM:50:LEU:CD2	42:BM:56:LEU:HB2	2.51	0.41
42:BM:113:LYS:HZ1	42:BM:119:ALA:HB1	1.84	0.41
43:BN:79:ARG:O	43:BN:80:LYS:C	2.63	0.41
44:BO:120:ARG:HE	44:BO:126:ARG:NH2	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:41:ARG:HH11	45:BP:55:VAL:HG11	1.85	0.41
45:BP:93:LEU:O	45:BP:96:VAL:CG2	2.64	0.41
45:BP:105:TYR:HB2	45:BP:106:ASP:H	1.58	0.41
48:BS:34:LEU:HD12	48:BS:35:ARG:CA	2.50	0.41
48:BS:87:ILE:HG22	48:BS:88:ARG:N	2.36	0.41
49:BT:3:LYS:HA	49:BT:65:GLN:O	2.21	0.41
49:BT:21:VAL:HG22	49:BT:36:ILE:CD1	2.50	0.41
49:BT:34:GLU:CD	49:BT:35:LYS:O	2.63	0.41
50:BU:13:ASP:O	50:BU:14:LYS:C	2.63	0.41
50:BU:41:LYS:C	50:BU:42:TYR:HD1	2.29	0.41
50:BU:87:LYS:O	50:BU:88:TYR:C	2.63	0.41
51:BV:63:GLN:O	51:BV:66:LEU:CD1	2.69	0.41
52:BW:29:ARG:O	52:BW:30:LEU:C	2.63	0.41
52:BW:44:MET:O	52:BW:62:ILE:HD13	2.20	0.41
52:BW:51:VAL:HB	52:BW:75:ALA:HB2	2.01	0.41
53:BX:11:SER:CA	53:BX:13:LEU:HD11	2.35	0.41
53:BX:16:HIS:O	53:BX:19:SER:HB3	2.20	0.41
53:BX:23:ARG:O	53:BX:24:LEU:O	2.39	0.41
53:BX:102:GLY:O	53:BX:104:LEU:N	2.54	0.41
54:BY:17:THR:C	54:BY:22:ARG:HH21	2.29	0.41
55:CA:23:ASP:C	55:CA:25:LEU:N	2.78	0.41
55:CA:24:LYS:O	55:CA:26:LEU:N	2.54	0.41
55:CA:50:LYS:CE	55:CA:368:VAL:HG21	2.51	0.41
55:CA:58:ALA:HB1	55:CA:60:ASN:OD1	2.20	0.41
55:CA:78:HIS:NE2	55:CA:364:LEU:HD21	2.36	0.41
55:CA:107:PRO:HB2	55:CA:461:GLY:HA3	2.02	0.41
55:CA:383:SER:N	55:CA:384:ARG:HB2	2.35	0.41
55:CA:392:ILE:C	55:CA:394:GLY:CA	2.87	0.41
55:CA:395:ARG:HB2	55:CA:474:ASP:HB2	1.81	0.41
1:AA:6:A:C6	1:AA:2898:U:C2	3.05	0.41
1:AA:64:A:H2'	1:AA:65:C:O4'	2.21	0.41
1:AA:92:G:H3'	1:AA:92:G:OP2	2.21	0.41
1:AA:144:C:H2'	1:AA:145:G:C4'	2.51	0.41
1:AA:183:C:O2'	1:AA:432:A:N3	2.52	0.41
1:AA:196:A:C2	1:AA:828:U:H5''	2.50	0.41
1:AA:222:A:N6	1:AA:232:G:N3	2.68	0.41
1:AA:270(B):A:O2'	1:AA:270(C):C:H3'	2.21	0.41
1:AA:355:G:C6	1:AA:356:G:O6	2.74	0.41
1:AA:383:U:O2'	1:AA:385:C:N4	2.49	0.41
1:AA:433:C:H2'	1:AA:434:U:C6	2.56	0.41
1:AA:465:G:C6	1:AA:466:A:C5	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:551:G:O4'	1:AA:1220:A:N1	2.54	0.41
1:AA:573:G:C3'	1:AA:574:C:H5''	2.51	0.41
1:AA:604:G:H2'	1:AA:605:C:C6	2.56	0.41
1:AA:624:C:H6	1:AA:624:C:C4'	2.34	0.41
1:AA:682:G:C4	1:AA:683:C:C5	3.08	0.41
1:AA:691:C:C2'	1:AA:692:C:H5'	2.51	0.41
1:AA:720:C:C2	1:AA:721:C:C6	3.09	0.41
1:AA:748:G:N7	1:AA:750:A:N7	2.69	0.41
1:AA:750:A:C2'	1:AA:751:A:H5''	2.51	0.41
1:AA:807:U:C2'	1:AA:807:U:O2	2.69	0.41
1:AA:849:A:H3'	1:AA:850:C:H6	1.85	0.41
1:AA:850:C:C2	1:AA:851:U:C6	3.09	0.41
1:AA:899:A:N3	1:AA:900:A:H2	2.13	0.41
1:AA:948:G:C6	1:AA:949:C:C4	3.09	0.41
1:AA:958:U:C6	14:AN:41:TRP:HH2	2.39	0.41
1:AA:991:C:H5'	1:AA:1185:C:H2'	2.02	0.41
1:AA:997:G:C3'	18:AR:92:ARG:NH1	2.84	0.41
1:AA:1012:U:N3	1:AA:1142(A):A:O2'	2.54	0.41
1:AA:1124:C:O2'	32:Af:36:GLN:O	2.39	0.41
1:AA:1135:C:O2'	1:AA:1136:G:C5'	2.67	0.41
1:AA:1156:A:P	18:AR:55:ARG:NH2	2.94	0.41
1:AA:1207:C:H6	1:AA:1207:C:H5''	1.86	0.41
1:AA:1325:G:OP2	1:AA:1616:A:C8	2.73	0.41
1:AA:1343:G:C8	1:AA:1597:A:N6	2.89	0.41
1:AA:1475:G:N2	1:AA:1477:A:N6	2.53	0.41
1:AA:1505:C:O2	1:AA:1505:C:C2'	2.68	0.41
1:AA:1652:A:N7	1:AA:1653:G:C2	2.89	0.41
1:AA:1661:G:C5	1:AA:2000:G:C2	3.09	0.41
1:AA:1761:C:H3'	1:AA:1761:C:C6	2.55	0.41
1:AA:1847:A:O2'	1:AA:1848:A:C8	2.74	0.41
1:AA:1905:C:H2'	1:AA:1906:G:OP2	2.20	0.41
1:AA:1906:G:O4'	1:AA:1929:G:N7	2.54	0.41
1:AA:1919:A:O2'	1:AA:1920:C:P	2.79	0.41
1:AA:1957:C:H2'	1:AA:1958:C:C6	2.55	0.41
1:AA:2000:G:O2'	1:AA:2689:U:C5	2.73	0.41
1:AA:2040:C:C2'	1:AA:2041:U:O5'	2.68	0.41
1:AA:2101:G:C6	1:AA:2102:U:C4	3.09	0.41
1:AA:2209:C:O5'	4:AD:151:LYS:HD2	2.21	0.41
1:AA:2367:G:C2	1:AA:2368:C:C5	3.08	0.41
1:AA:2384:G:H3'	1:AA:2386:C:P	2.61	0.41
1:AA:2390:U:H2'	1:AA:2391:G:O5'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2574:G:O2'	5:AE:143:ASN:CB	2.69	0.41
1:AA:2580:U:C5	1:AA:2581:G:N7	2.90	0.41
1:AA:2624:G:H1'	28:Ab:22:HIS:NE2	2.35	0.41
1:AA:2633:G:C4'	1:AA:2812:G:OP1	2.64	0.41
1:AA:2644:G:C6	1:AA:2645:G:N2	2.89	0.41
1:AA:2705:A:C8	1:AA:2706:G:N7	2.89	0.41
1:AA:2754:U:H3'	1:AA:2754:U:C6	2.56	0.41
1:AA:2791:C:H1'	1:AA:2807:G:C4	2.56	0.41
1:AA:2847:U:C6	1:AA:2848:G:C8	3.09	0.41
2:AB:16:G:C6	2:AB:69:G:C2	3.09	0.41
2:AB:40:U:O5'	2:AB:40:U:H6	2.04	0.41
2:AB:43:C:H2'	2:AB:44:G:C5'	2.50	0.41
2:AB:85:G:H2'	2:AB:86:G:H8	1.86	0.41
2:AB:85:G:N2	2:AB:86:G:C4	2.89	0.41
3:AC:10:LEU:HD21	3:AC:33:ALA:HB2	2.02	0.41
3:AC:20:TYR:CE1	3:AC:222:VAL:CG1	3.04	0.41
4:AD:74:GLY:O	4:AD:75:ILE:C	2.64	0.41
4:AD:85:ASP:OD2	4:AD:87:ASN:ND2	2.53	0.41
4:AD:117:VAL:HG12	4:AD:118:VAL:N	2.34	0.41
4:AD:156:ALA:C	4:AD:158:ALA:N	2.77	0.41
4:AD:244:ARG:HB3	4:AD:252:TRP:HD1	1.85	0.41
5:AE:5:LEU:O	5:AE:195:LEU:HD21	2.21	0.41
5:AE:30:PRO:HG2	5:AE:90:THR:HG22	2.03	0.41
5:AE:49:LEU:CD1	5:AE:50:GLY:H	2.34	0.41
5:AE:119:ARG:NH1	5:AE:155:LYS:CB	2.84	0.41
5:AE:154:LYS:CD	5:AE:154:LYS:O	2.69	0.41
6:AF:101:LEU:O	6:AF:106:ARG:NH2	2.54	0.41
6:AF:120:GLU:OE1	6:AF:120:GLU:N	2.53	0.41
7:AG:49:ASP:H	7:AG:53:LEU:CD1	2.34	0.41
7:AG:94:LEU:CD1	7:AG:94:LEU:H	2.34	0.41
7:AG:111:LEU:HB3	7:AG:112:PRO:HD2	1.94	0.41
8:AH:8:PRO:C	8:AH:9:ILE:HG13	2.46	0.41
8:AH:30:LYS:O	8:AH:31:GLY:C	2.64	0.41
10:AJ:22:PRO:C	10:AJ:24:GLY:CA	2.86	0.41
10:AJ:84:LEU:C	10:AJ:86:LYS:N	2.77	0.41
10:AJ:88:ALA:O	10:AJ:89:HIS:HB2	2.20	0.41
11:AK:30:ILE:O	11:AK:33:LEU:HD12	2.21	0.41
11:AK:74:ARG:HB2	11:AK:82:LEU:HA	2.03	0.41
11:AK:91:LEU:HG	11:AK:91:LEU:H	1.13	0.41
11:AK:100:GLU:CB	11:AK:104:LYS:HE2	2.50	0.41
12:AL:15:GLY:C	12:AL:46:ALA:O	2.64	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:21:CYS:SG	12:AL:23:ARG:N	2.94	0.41
13:AM:114:ILE:CG1	13:AM:123:LEU:HB2	2.46	0.41
13:AM:130:PHE:O	13:AM:131:SER:O	2.39	0.41
14:AN:80:GLU:CD	14:AN:80:GLU:C	2.88	0.41
14:AN:135:ASP:O	14:AN:136:ALA:HB2	2.22	0.41
15:AO:7:GLY:O	15:AO:8:ARG:O	2.38	0.41
15:AO:92:GLY:C	15:AO:94:TYR:N	2.79	0.41
16:AP:28:VAL:CB	16:AP:101:LEU:HG	2.51	0.41
16:AP:49:VAL:HG11	16:AP:77:ALA:HA	2.02	0.41
16:AP:75:GLU:O	16:AP:78:LEU:CB	2.66	0.41
16:AP:78:LEU:C	16:AP:78:LEU:CD2	2.76	0.41
17:AQ:45:PHE:HE1	17:AQ:86:ILE:CG2	2.33	0.41
17:AQ:104:ASN:N	17:AQ:107:ASP:OD2	2.54	0.41
17:AQ:109:GLU:HB3	17:AQ:114:LEU:HD21	2.03	0.41
18:AR:55:ARG:HA	18:AR:58:ARG:CB	2.51	0.41
18:AR:89:GLU:HB3	19:AS:51:VAL:CA	2.49	0.41
19:AS:28:GLU:HB3	19:AS:94:LEU:CD1	2.25	0.41
19:AS:36:PRO:HA	19:AS:61:VAL:HG22	2.02	0.41
19:AS:100:ARG:NE	19:AS:100:ARG:HA	2.36	0.41
20:AT:30:GLU:OE1	20:AT:31:GLU:N	2.54	0.41
20:AT:67:ASP:CG	20:AT:68:ARG:N	2.79	0.41
21:AU:13:LEU:HD23	21:AU:13:LEU:N	2.36	0.41
21:AU:25:LYS:HA	21:AU:82:GLN:HA	2.03	0.41
23:AW:1:MET:CE	23:AW:61:LEU:HG	2.51	0.41
23:AW:127:LYS:CD	23:AW:165:VAL:HG23	2.42	0.41
25:AY:27:LEU:HD11	25:AY:48:LEU:CG	2.49	0.41
28:Ab:47:PRO:O	28:Ab:58:LEU:CD2	2.69	0.41
31:Ae:5:LYS:CA	31:Ae:60:LEU:HA	2.48	0.41
34:BA:89:U:O2'	34:BA:90:C:H5'	2.21	0.41
34:BA:186(B):C:H2'	34:BA:186(C):G:C5'	2.51	0.41
34:BA:188:U:H2'	34:BA:189:U:O5'	2.20	0.41
34:BA:196:A:H3'	34:BA:196:A:H8	1.86	0.41
34:BA:221:C:C2	34:BA:222:U:C5	3.08	0.41
34:BA:253:U:O4'	34:BA:276:G:H1'	2.21	0.41
34:BA:260:G:N3	34:BA:261:U:O2	2.54	0.41
34:BA:261:U:C3'	34:BA:263:A:OP2	2.69	0.41
34:BA:329:A:C6	34:BA:332:G:C2	3.09	0.41
34:BA:356:A:O2'	34:BA:357:G:H5'	2.21	0.41
34:BA:357:G:OP1	34:BA:367:U:C3'	2.69	0.41
34:BA:402:G:OP1	37:BH:74:GLN:NE2	2.54	0.41
34:BA:438:G:N2	34:BA:494:U:C2	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:440:A:H3'	34:BA:442:C:C5	2.55	0.41
34:BA:453:A:C8	34:BA:453:A:OP2	2.71	0.41
34:BA:491:G:C2'	34:BA:492:G:H5'	2.51	0.41
34:BA:622:A:H2'	34:BA:623:C:O5'	2.21	0.41
34:BA:626:U:H2'	34:BA:627:G:H8	1.86	0.41
34:BA:663:A:H4'	51:BV:61:LYS:HZ1	1.85	0.41
34:BA:824:C:H1'	41:BL:1:MET:O	2.22	0.41
34:BA:899:C:C4	34:BA:900:A:N1	2.89	0.41
34:BA:908:A:N3	34:BA:909:A:N7	2.67	0.41
34:BA:946:A:H2'	34:BA:947:G:N7	2.31	0.41
34:BA:1029:G:N2	34:BA:1031:G:O5'	2.54	0.41
34:BA:1107:C:H2'	34:BA:1108:G:H5''	2.01	0.41
34:BA:1210:C:H4'	34:BA:1214:C:C4	2.55	0.41
34:BA:1274:G:H2'	34:BA:1274:G:N3	2.36	0.41
34:BA:1277:C:C5	34:BA:1278:U:O2	2.74	0.41
34:BA:1462:G:H2'	34:BA:1463:C:H5'	2.02	0.41
35:BF:45:GLN:CD	35:BF:45:GLN:H	2.29	0.41
36:BG:29:TYR:CE2	47:BR:54:PRO:HB2	2.51	0.41
36:BG:194:GLY:C	36:BG:196:LEU:HD23	2.45	0.41
37:BH:108:LEU:C	37:BH:110:PHE:N	2.79	0.41
38:BI:33:VAL:HG22	38:BI:43:LEU:CD1	2.36	0.41
38:BI:84:PHE:CG	38:BI:134:ALA:CA	3.00	0.41
39:BJ:52:ILE:C	39:BJ:54:LYS:N	2.77	0.41
39:BJ:59:TYR:C	39:BJ:60:PHE:HD1	2.27	0.41
39:BJ:82:ARG:O	39:BJ:84:ASN:N	2.54	0.41
40:BK:41:ARG:HG2	40:BK:41:ARG:NH1	2.35	0.41
41:BL:85:ARG:HD2	41:BL:86:ILE:H	1.85	0.41
42:BM:69:GLY:C	42:BM:73:GLN:CD	2.89	0.41
44:BO:18:ARG:HB3	44:BO:83:ILE:HD11	2.03	0.41
46:BQ:8:GLU:HB2	46:BQ:22:ILE:CG1	2.29	0.41
46:BQ:23:TYR:O	46:BQ:25:ILE:HG13	2.20	0.41
46:BQ:80:ARG:HB2	52:BW:65:ASN:ND2	2.35	0.41
46:BQ:98:VAL:HG23	46:BQ:110:ARG:CZ	2.47	0.41
47:BR:16:PHE:HB3	47:BR:18:VAL:HG22	2.03	0.41
48:BS:67:LEU:O	48:BS:70:LEU:CB	2.60	0.41
49:BT:2:VAL:O	49:BT:2:VAL:HG12	2.20	0.41
50:BU:76:LEU:HD23	50:BU:76:LEU:O	2.20	0.41
51:BV:51:LEU:HA	51:BV:52:PRO:HD2	1.48	0.41
52:BW:18:LYS:CE	52:BW:22:LEU:HB2	2.51	0.41
53:BX:13:LEU:O	53:BX:16:HIS:N	2.54	0.41
53:BX:74:LYS:HB2	53:BX:75:ASN:H	1.65	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:82:SER:OG	53:BX:83:ARG:N	2.52	0.41
55:CA:117:PHE:CZ	55:CA:148:PHE:CZ	3.08	0.41
55:CA:383:SER:N	55:CA:384:ARG:CG	2.81	0.41
55:CA:406:ASP:C	55:CA:407:VAL:CG1	2.92	0.41
1:AA:70:G:C4'	1:AA:71:A:H5'	2.51	0.40
1:AA:109:G:N1	1:AA:110:G:C8	2.88	0.40
1:AA:138:G:H21	1:AA:140:A:H62	1.64	0.40
1:AA:185:U:N3	1:AA:212:G:C2	2.89	0.40
1:AA:225:A:N6	1:AA:226:G:C6	2.89	0.40
1:AA:270(E):G:C6	1:AA:270(F):U:C4	3.09	0.40
1:AA:270(T):G:C6	1:AA:270(U):C:C4	3.08	0.40
1:AA:286:C:H2'	1:AA:287:C:O4'	2.22	0.40
1:AA:431:U:O5'	1:AA:431:U:C6	2.75	0.40
1:AA:514:A:C2	1:AA:515:A:C8	3.09	0.40
1:AA:514:A:H2'	1:AA:515:A:C5'	2.50	0.40
1:AA:535:C:C2'	1:AA:536:A:C5'	2.98	0.40
1:AA:598:G:C6	1:AA:660:G:C6	3.09	0.40
1:AA:629:G:H5'	1:AA:649:G:C2	2.55	0.40
1:AA:641:C:O2'	1:AA:2350:C:OP1	2.24	0.40
1:AA:723:G:C2	1:AA:724:U:N1	2.90	0.40
1:AA:730:C:C2	1:AA:731:C:C5	3.08	0.40
1:AA:733:G:N7	1:AA:761:A:C5	2.89	0.40
1:AA:748:G:OP2	20:AT:88:ARG:NE	2.54	0.40
1:AA:774:A:H5'	1:AA:778:G:C4'	2.50	0.40
1:AA:814:C:O2'	1:AA:1224:G:N2	2.48	0.40
1:AA:815:C:C2	1:AA:816:C:C5	3.09	0.40
1:AA:873:G:N2	1:AA:874:G:H1'	2.35	0.40
1:AA:878:A:C1'	1:AA:879:G:C8	3.04	0.40
1:AA:918:A:H2	1:AA:919:G:N9	2.19	0.40
1:AA:960:A:H8	1:AA:960:A:O5'	2.04	0.40
1:AA:996:A:C5	1:AA:1160:G:C2	3.08	0.40
1:AA:1009:A:N1	1:AA:1010:A:C2	2.89	0.40
1:AA:1043:C:C3'	1:AA:1043:C:C6	3.03	0.40
1:AA:1166:C:C2'	1:AA:1167:U:O5'	2.69	0.40
1:AA:1196:C:H2'	1:AA:1197:G:N9	2.35	0.40
1:AA:1229:G:H2'	1:AA:1230:C:H5'	2.03	0.40
1:AA:1264:G:C6	1:AA:1265:A:N7	2.86	0.40
1:AA:1310:G:H1	1:AA:1604:C:N4	2.18	0.40
1:AA:1368:G:H2'	1:AA:1369:G:O5'	2.21	0.40
1:AA:1502:C:H6	1:AA:1502:C:O5'	2.04	0.40
1:AA:1517:G:N2	1:AA:1518:C:O2	2.53	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1520:U:C6	1:AA:1520:U:O5'	2.74	0.40
1:AA:1581:G:H2'	1:AA:1582:C:C6	2.56	0.40
1:AA:1614:A:H5''	1:AA:1615:C:OP2	2.21	0.40
1:AA:1641:A:N6	1:AA:1642:G:C2	2.90	0.40
1:AA:1668:A:N7	1:AA:1670:C:N4	2.70	0.40
1:AA:1670:C:C3'	1:AA:1671:U:H5'	2.51	0.40
1:AA:1815:A:H4'	1:AA:1817:G:O4'	2.21	0.40
1:AA:1911:U:C2'	1:AA:1912:A:H5''	2.51	0.40
1:AA:1951:U:C2'	1:AA:1953:A:O5'	2.66	0.40
1:AA:1952:A:C2	12:AL:22:ILE:HG23	2.55	0.40
1:AA:2020:A:P	18:AR:27:LEU:HD22	2.62	0.40
1:AA:2025:C:C3'	1:AA:2026:C:H6	2.34	0.40
1:AA:2040:C:H2'	1:AA:2041:U:C6	2.56	0.40
1:AA:2040:C:C4	1:AA:2041:U:O4	2.74	0.40
1:AA:2043:C:H2'	1:AA:2044:C:O5'	2.19	0.40
1:AA:2051:A:C6	1:AA:2614:A:N7	2.89	0.40
1:AA:2147:G:C2	1:AA:2148:G:H4'	2.55	0.40
1:AA:2239:G:C5'	1:AA:2240:C:OP2	2.50	0.40
1:AA:2252:G:N7	1:AA:2253:G:N7	2.69	0.40
1:AA:2300:G:C2'	1:AA:2301:C:H5'	2.51	0.40
1:AA:2318:G:P	1:AA:2318:G:C8	3.10	0.40
1:AA:2462:U:N3	1:AA:2463:C:C4	2.88	0.40
1:AA:2471:C:H4'	55:CA:529:ARG:HE	1.85	0.40
1:AA:2637:U:O2'	1:AA:2638:G:C1'	2.69	0.40
1:AA:2685:G:O3'	12:AL:66:LYS:NZ	2.49	0.40
1:AA:2690:C:N4	15:AO:14:SER:CB	2.84	0.40
1:AA:2718:G:O3'	17:AQ:101:PHE:HD2	2.03	0.40
1:AA:2737:G:C4	1:AA:2738:A:C8	3.09	0.40
1:AA:2803:C:N4	1:AA:2804:C:H42	2.19	0.40
1:AA:2879:C:O2	1:AA:2879:C:H2'	2.21	0.40
3:AC:46:LYS:HD3	3:AC:46:LYS:C	2.46	0.40
3:AC:113:VAL:CG2	3:AC:136:LEU:O	2.69	0.40
3:AC:181:PRO:HB2	3:AC:184:LYS:HG3	2.02	0.40
3:AC:202:GLU:C	3:AC:202:GLU:CD	2.88	0.40
3:AC:214:VAL:HG23	3:AC:224:ILE:HG21	2.02	0.40
4:AD:40:THR:CG2	4:AD:43:ARG:NE	2.85	0.40
4:AD:54:ARG:HA	4:AD:220:HIS:N	2.36	0.40
4:AD:57:GLY:O	4:AD:58:HIS:CB	2.69	0.40
4:AD:58:HIS:O	4:AD:59:LYS:HE3	2.21	0.40
4:AD:68:LYS:HG2	4:AD:152:GLY:HA2	2.03	0.40
4:AD:96:HIS:NE2	4:AD:102:LYS:HE2	2.36	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:127:ASP:HB2	5:AE:135:HIS:N	2.35	0.40
6:AF:8:GLN:HB3	6:AF:18:ARG:CA	2.51	0.40
6:AF:68:LYS:HB3	6:AF:69:HIS:H	1.71	0.40
6:AF:77:ASP:O	6:AF:77:ASP:CG	2.60	0.40
6:AF:81:PRO:C	6:AF:83:PHE:H	2.25	0.40
6:AF:184:TYR:HB2	6:AF:185:ASP:H	1.68	0.40
6:AF:194:MET:HE1	6:AF:197:ASP:CA	2.51	0.40
7:AG:36:LYS:HB2	7:AG:95:ARG:O	2.20	0.40
7:AG:103:LEU:HD21	7:AG:176:LEU:HD12	2.03	0.40
7:AG:123:ASN:O	7:AG:124:SER:C	2.64	0.40
8:AH:24:VAL:HG13	8:AH:37:VAL:HG11	2.04	0.40
8:AH:98:LEU:O	8:AH:99:VAL:HB	2.20	0.40
8:AH:124:GLU:C	8:AH:126:PRO:CD	2.94	0.40
8:AH:143:GLN:O	8:AH:144:VAL:C	2.61	0.40
8:AH:152:ARG:O	8:AH:162:ILE:HG22	2.21	0.40
11:AK:23:LEU:HD11	11:AK:62:VAL:C	2.42	0.40
11:AK:26:LEU:O	11:AK:30:ILE:CD1	2.69	0.40
11:AK:37:LYS:HZ3	11:AK:37:LYS:HG2	1.68	0.40
11:AK:74:ARG:CZ	11:AK:82:LEU:HD21	2.51	0.40
12:AL:8:LEU:CD2	12:AL:81:ASP:C	2.94	0.40
12:AL:70:LYS:HE2	12:AL:103:ALA:HB3	2.00	0.40
13:AM:36:LYS:CD	13:AM:42:SER:OG	2.69	0.40
13:AM:74:GLU:N	13:AM:107:LYS:HE3	2.36	0.40
13:AM:126:VAL:CA	13:AM:145:PRO:HA	2.49	0.40
13:AM:128:HIS:HA	13:AM:147:LEU:HD22	1.96	0.40
14:AN:68:ILE:HD13	14:AN:97:VAL:HG13	2.02	0.40
15:AO:75:LEU:CD2	15:AO:78:LYS:HB3	2.51	0.40
16:AP:19:LYS:C	16:AP:20:ARG:O	2.62	0.40
16:AP:29:PHE:C	16:AP:35:ILE:HD12	2.46	0.40
16:AP:36:TYR:CD1	16:AP:37:ALA:N	2.89	0.40
17:AQ:12:SER:O	17:AQ:13:ARG:C	2.63	0.40
17:AQ:73:GLU:HG3	17:AQ:73:GLU:O	2.21	0.40
18:AR:16:LYS:CD	18:AR:17:ILE:HD13	2.51	0.40
18:AR:33:ARG:HB2	18:AR:33:ARG:CZ	2.50	0.40
18:AR:81:HIS:HB3	18:AR:117:GLN:HE22	1.82	0.40
20:AT:33:ARG:CD	20:AT:33:ARG:C	2.94	0.40
20:AT:55:ALA:C	20:AT:58:ALA:HB3	2.43	0.40
21:AU:15:GLU:O	21:AU:18:TYR:CB	2.69	0.40
22:AV:13:VAL:N	22:AV:73:ARG:CZ	2.83	0.40
24:AX:63:VAL:HG22	24:AX:81:VAL:HB	2.03	0.40
28:Ab:29:THR:O	28:Ab:30:LEU:HG	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ab:57:VAL:O	28:Ab:58:LEU:HB3	2.20	0.40
29:Ac:14:THR:HA	29:Ac:51:GLU:O	2.21	0.40
31:Ae:16:ILE:HG23	31:Ae:21:LYS:O	2.21	0.40
32:Af:15:LYS:O	32:Af:25:VAL:CG1	2.64	0.40
34:BA:46:G:N2	34:BA:366:C:C1'	2.83	0.40
34:BA:77:C:H6	34:BA:77:C:O5'	2.03	0.40
34:BA:116:A:OP1	34:BA:289:G:OP1	2.39	0.40
34:BA:335:C:H4'	34:BA:1434:A:C4'	2.52	0.40
34:BA:369:C:C2	34:BA:370:C:C5	3.09	0.40
34:BA:458:C:C4	34:BA:464:G:C6	3.08	0.40
34:BA:547:A:C4'	34:BA:548:G:OP1	2.69	0.40
34:BA:563:A:H3'	45:BP:15:ARG:CZ	2.51	0.40
34:BA:592:G:C6	34:BA:648:A:N6	2.89	0.40
34:BA:652:U:C1'	34:BA:653:A:C2	3.04	0.40
34:BA:654:G:O6	34:BA:655:A:C2	2.74	0.40
34:BA:657:G:C5	34:BA:658:G:C8	3.09	0.40
34:BA:662:G:N1	34:BA:744:C:C4	2.89	0.40
34:BA:687:A:C5	34:BA:701:C:C4	3.10	0.40
34:BA:688:G:N1	34:BA:700:G:C6	2.89	0.40
34:BA:689:C:H2'	34:BA:690:G:O4'	2.21	0.40
34:BA:736:C:H5''	51:BV:72:ARG:CZ	2.44	0.40
34:BA:761:G:H4'	50:BU:103:GLY:H	1.81	0.40
34:BA:866:C:H5''	34:BA:867:G:C8	2.56	0.40
34:BA:966:G:H2'	34:BA:967:C:O5'	2.21	0.40
34:BA:971:G:C8	34:BA:1365:G:H4'	2.56	0.40
34:BA:972:C:OP2	43:BN:57:LYS:NZ	2.52	0.40
34:BA:994:A:H2	47:BR:4:LYS:HG2	1.86	0.40
34:BA:1029:G:H21	34:BA:1031:G:H3'	1.86	0.40
34:BA:1050:G:N3	34:BA:1050:G:H2'	2.35	0.40
34:BA:1063:C:C5'	34:BA:1064:G:OP2	2.67	0.40
34:BA:1105:A:N3	34:BA:1106:G:N7	2.69	0.40
34:BA:1133:G:C5	34:BA:1134:G:N7	2.89	0.40
34:BA:1152:A:H2'	34:BA:1153:C:C5'	2.48	0.40
34:BA:1164:G:N1	34:BA:1165:C:C2	2.90	0.40
34:BA:1187:G:C4	34:BA:1188:A:N7	2.89	0.40
34:BA:1346:A:C8	34:BA:1348:U:C4	3.09	0.40
34:BA:1422:G:C2	34:BA:1479:C:C2	3.09	0.40
34:BA:1425:U:O2	34:BA:1476:G:C2	2.74	0.40
34:BA:1451:A:C5'	34:BA:1452:C:H5	2.34	0.40
34:BA:1488:G:N2	34:BA:1489:G:C5	2.88	0.40
34:BA:1540:U:O5'	34:BA:1540:U:H6	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:35:GLU:OE2	35:BF:36:ARG:C	2.63	0.40
35:BF:46:LYS:O	35:BF:49:GLU:N	2.54	0.40
35:BF:53:ARG:O	35:BF:56:ARG:NH1	2.53	0.40
35:BF:56:ARG:HH11	35:BF:56:ARG:C	2.29	0.40
35:BF:62:ALA:CB	35:BF:225:ALA:HB3	2.51	0.40
35:BF:85:ALA:HB3	35:BF:92:TYR:CD1	2.56	0.40
35:BF:118:LEU:HD22	35:BF:142:LEU:HD13	2.02	0.40
35:BF:167:PRO:CG	35:BF:168:THR:N	2.83	0.40
36:BG:6:HIS:CB	47:BR:49:HIS:CE1	3.01	0.40
36:BG:33:LEU:HD23	36:BG:36:ASP:CB	2.50	0.40
36:BG:43:LEU:CD2	36:BG:44:GLU:N	2.85	0.40
36:BG:157:ILE:CD1	36:BG:164:ARG:HG2	2.51	0.40
37:BH:13:ARG:HA	37:BH:32:ALA:HB1	2.03	0.40
37:BH:62:GLN:HA	37:BH:62:GLN:NE2	2.36	0.40
37:BH:106:TYR:OH	37:BH:112:VAL:O	2.22	0.40
38:BI:9:LYS:HD3	38:BI:108:ALA:CB	2.51	0.40
38:BI:138:ALA:O	38:BI:139:LEU:C	2.64	0.40
39:BJ:5:GLU:H	39:BJ:5:GLU:HG3	1.72	0.40
39:BJ:29:ALA:O	39:BJ:32:ASN:N	2.54	0.40
39:BJ:77:ARG:CA	39:BJ:80:ARG:NE	2.80	0.40
41:BL:14:ARG:CD	41:BL:15:ASN:ND2	2.83	0.40
41:BL:23:SER:HA	41:BL:62:TYR:CD1	2.55	0.40
41:BL:104:ARG:O	41:BL:107:LEU:HD23	2.21	0.40
41:BL:104:ARG:HB2	41:BL:107:LEU:HG	2.02	0.40
42:BM:15:ALA:HA	42:BM:65:VAL:HG23	2.03	0.40
42:BM:34:ASN:CG	42:BM:43:ALA:CB	2.94	0.40
44:BO:84:VAL:HG11	51:BV:88:LYS:HD3	2.03	0.40
44:BO:85:ARG:HE	44:BO:111:ASP:CB	2.31	0.40
46:BQ:8:GLU:HB3	46:BQ:22:ILE:CD1	2.51	0.40
47:BR:41:ARG:C	47:BR:44:LEU:HB3	2.46	0.40
47:BR:51:GLY:O	47:BR:53:LEU:N	2.52	0.40
48:BS:42:HIS:ND1	48:BS:43:LEU:N	2.66	0.40
49:BT:26:ARG:CD	49:BT:31:LYS:HB3	2.51	0.40
50:BU:29:HIS:CG	50:BU:30:PRO:CD	3.04	0.40
51:BV:43:PHE:O	51:BV:51:LEU:CD1	2.52	0.40
54:BY:6:ARG:NH1	54:BY:15:ARG:NH2	2.69	0.40
55:CA:25:LEU:O	55:CA:28:GLN:CB	2.68	0.40
55:CA:317:PRO:HG3	55:CA:519:TYR:CD2	2.56	0.40
55:CA:390:ARG:HG3	55:CA:391:GLU:HA	2.02	0.40
55:CA:488:LEU:HD11	55:CA:509:LYS:O	2.20	0.40
55:CA:493:GLN:HG2	55:CA:519:TYR:HB3	2.01	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CA:512:LEU:CD1	55:CA:524:ILE:CG2	2.78	0.40
1:AA:5:A:N1	1:AA:2899:G:C8	2.89	0.40
1:AA:10:G:N1	1:AA:11:G:C6	2.89	0.40
1:AA:14:A:N7	1:AA:15:G:C1'	2.84	0.40
1:AA:112:U:N3	1:AA:113:G:H1'	2.35	0.40
1:AA:125:G:H22	30:Ad:10:ARG:CA	2.25	0.40
1:AA:270(D):C:H2'	1:AA:270(E):G:C8	2.56	0.40
1:AA:285:C:O2'	1:AA:286:C:O5'	2.39	0.40
1:AA:296:C:HO2'	1:AA:297:C:C4'	2.28	0.40
1:AA:415:A:O4'	1:AA:1869:G:C5'	2.69	0.40
1:AA:521:G:C2	1:AA:522:G:C8	3.09	0.40
1:AA:579:G:N1	1:AA:580:C:C4	2.89	0.40
1:AA:613:U:O5'	1:AA:615:G:C8	2.74	0.40
1:AA:739:G:O2'	1:AA:1784:A:C6	2.67	0.40
1:AA:761:A:C5'	1:AA:762:U:OP1	2.69	0.40
1:AA:793:A:C2'	1:AA:794:G:OP2	2.69	0.40
1:AA:867:C:OP1	1:AA:868:U:OP2	2.38	0.40
1:AA:1007:C:C2	1:AA:1008:C:N4	2.89	0.40
1:AA:1050:A:H2'	1:AA:1051:G:H8	1.86	0.40
1:AA:1061:U:H2'	10:AJ:73:PRO:HG2	2.02	0.40
1:AA:1085:A:H1'	1:AA:1086:A:O5'	2.20	0.40
1:AA:1101:U:O2	1:AA:1102:C:C6	2.73	0.40
1:AA:1106:G:O2'	9:AI:56:ASN:O	2.37	0.40
1:AA:1136:G:N2	1:AA:1137:G:C1'	2.84	0.40
1:AA:1174:A:N1	1:AA:1177:A:C5	2.89	0.40
1:AA:1291:C:C5'	1:AA:1535:U:O3'	2.69	0.40
1:AA:1309:G:HO2'	1:AA:1310:G:H5'	1.77	0.40
1:AA:1328:G:O2'	1:AA:1329:U:H5''	2.21	0.40
1:AA:1418:G:H1'	1:AA:1579:A:N6	2.27	0.40
1:AA:1429:G:H1'	1:AA:1568:G:N3	2.36	0.40
1:AA:1510:A:H3'	1:AA:1511:A:C6	2.57	0.40
1:AA:1525:G:N2	1:AA:1526:G:C1'	2.84	0.40
1:AA:1528:A:N7	1:AA:1529:A:C2	2.90	0.40
1:AA:1579:A:H2'	1:AA:1580:A:O4'	2.21	0.40
1:AA:1588:C:O2'	1:AA:1589:C:H5'	2.21	0.40
1:AA:1664:A:O2'	12:AL:66:LYS:CE	2.69	0.40
1:AA:1676:A:C8	1:AA:1677:A:C8	3.09	0.40
1:AA:1688:U:H3	1:AA:1700:A:C5'	2.34	0.40
1:AA:1689:A:C6	1:AA:1700:A:N3	2.89	0.40
1:AA:1699:G:C5	1:AA:1763:G:N3	2.89	0.40
1:AA:1786:A:H2'	1:AA:1787:A:C8	2.56	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1845:G:C5	1:AA:1896:G:N1	2.89	0.40
1:AA:1847:A:O2'	1:AA:1848:A:N7	2.55	0.40
1:AA:1975:G:C2	1:AA:1976:U:C2	3.10	0.40
1:AA:2023:G:N2	1:AA:2041:U:C2	2.90	0.40
1:AA:2041:U:OP2	1:AA:2041:U:H6	2.03	0.40
1:AA:2175:C:OP1	3:AC:5:LYS:HG2	2.20	0.40
1:AA:2190:G:C6	1:AA:2191:G:N7	2.89	0.40
1:AA:2293:C:N3	1:AA:2294:C:C5	2.88	0.40
1:AA:2312:U:C5'	7:AG:43:LEU:HD21	2.43	0.40
1:AA:2454:G:H2'	1:AA:2455:G:H5'	2.04	0.40
1:AA:2470:G:N3	1:AA:2470:G:H2'	2.35	0.40
1:AA:2544:G:C4	1:AA:2545:G:C8	3.09	0.40
1:AA:2640:G:O3'	11:AK:75:TYR:CE1	2.74	0.40
1:AA:2734:A:N3	5:AE:203:LYS:CD	2.85	0.40
1:AA:2782:G:C2	1:AA:2783:G:C5	3.10	0.40
1:AA:2791:C:O2	1:AA:2807:G:C5	2.74	0.40
2:AB:82:G:H2'	2:AB:83:G:OP2	2.20	0.40
2:AB:118:G:C5	2:AB:119:A:N7	2.90	0.40
3:AC:20:TYR:O	3:AC:21:THR:HG23	2.21	0.40
3:AC:22:ILE:CD1	3:AC:190:ARG:HH22	2.35	0.40
3:AC:223:ARG:CB	3:AC:223:ARG:HH11	2.33	0.40
4:AD:5:LYS:CD	4:AD:31:LYS:NZ	2.84	0.40
4:AD:105:ILE:CD1	4:AD:106:ILE:HG23	2.51	0.40
4:AD:124:PRO:O	4:AD:126:GLN:HG2	2.21	0.40
5:AE:41:LYS:C	5:AE:43:GLY:N	2.52	0.40
5:AE:119:ARG:CD	5:AE:156:MET:N	2.83	0.40
5:AE:149:ARG:C	5:AE:149:ARG:CD	2.90	0.40
6:AF:51:THR:O	6:AF:52:LYS:CB	2.69	0.40
6:AF:132:VAL:HG22	6:AF:135:LYS:HB3	2.02	0.40
7:AG:5:VAL:CG2	7:AG:101:ILE:HG13	2.51	0.40
7:AG:64:THR:CG2	7:AG:92:VAL:HG11	2.51	0.40
8:AH:27:LYS:NZ	8:AH:32:GLU:HB2	2.36	0.40
8:AH:35:VAL:HG21	8:AH:75:ALA:HB2	2.00	0.40
10:AJ:55:VAL:N	10:AJ:56:GLU:CA	2.84	0.40
11:AK:46:VAL:CG1	11:AK:119:ARG:HH12	2.34	0.40
11:AK:100:GLU:O	11:AK:103:VAL:N	2.54	0.40
11:AK:100:GLU:CA	11:AK:104:LYS:HE2	2.51	0.40
11:AK:127:ASP:CG	11:AK:128:HIS:N	2.79	0.40
13:AM:126:VAL:CG2	13:AM:146:VAL:HB	2.51	0.40
14:AN:58:PHE:O	14:AN:59:ARG:C	2.65	0.40
15:AO:35:THR:CG2	15:AO:113:LEU:HD23	2.49	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:11:LYS:CA	16:AP:14:VAL:HB	2.49	0.40
16:AP:71:ARG:N	16:AP:104:GLY:HA3	2.35	0.40
16:AP:74:ALA:HB2	16:AP:104:GLY:C	2.45	0.40
17:AQ:95:ARG:CZ	17:AQ:96:ARG:NH1	2.83	0.40
18:AR:16:LYS:HD2	18:AR:17:ILE:HD13	2.02	0.40
18:AR:105:VAL:HG12	18:AR:106:PHE:N	2.32	0.40
19:AS:25:LEU:HD23	19:AS:28:GLU:HB2	2.02	0.40
20:AT:6:ILE:CA	20:AT:103:ILE:O	2.67	0.40
20:AT:32:ALA:O	20:AT:35:ILE:CG2	2.69	0.40
20:AT:103:ILE:O	20:AT:103:ILE:HG12	2.21	0.40
22:AV:9:LYS:HD2	22:AV:110:GLU:CG	2.52	0.40
23:AW:43:GLU:O	23:AW:46:LYS:N	2.54	0.40
23:AW:44:PHE:HB3	23:AW:48:PHE:HE2	1.86	0.40
23:AW:66:SER:C	23:AW:67:LEU:HG	2.45	0.40
23:AW:75:ASN:O	23:AW:84:GLU:N	2.45	0.40
23:AW:150:LEU:O	23:AW:171:ILE:CG2	2.68	0.40
23:AW:158:PRO:O	23:AW:161:VAL:HG22	2.21	0.40
25:AY:16:LEU:CD2	25:AY:59:LEU:HB2	2.52	0.40
26:AZ:29:ARG:HB3	26:AZ:30:ARG:HD2	2.03	0.40
26:AZ:47:VAL:O	26:AZ:50:VAL:HB	2.21	0.40
28:Ab:10:LYS:HA	28:Ab:15:ARG:NH1	2.36	0.40
29:Ac:50:ARG:O	29:Ac:51:GLU:HB2	2.21	0.40
31:Ae:26:LYS:O	31:Ae:47:LYS:HD2	2.21	0.40
31:Ae:30:ARG:CZ	31:Ae:41:ILE:O	2.69	0.40
31:Ae:38:GLY:CA	31:Ae:41:ILE:HG12	2.52	0.40
31:Ae:60:LEU:CD2	31:Ae:64:TYR:O	2.67	0.40
32:Af:10:ILE:CG1	32:Af:32:HIS:HD2	2.34	0.40
34:BA:59:A:N6	34:BA:331:G:H1'	2.36	0.40
34:BA:87:A:C8	34:BA:88:C:C6	3.09	0.40
34:BA:254:G:H21	50:BU:16:GLN:CD	2.29	0.40
34:BA:323:U:O4	34:BA:324:G:N3	2.54	0.40
34:BA:507:C:H3'	34:BA:508:C:H6	1.87	0.40
34:BA:521:G:P	45:BP:54:LYS:NZ	2.95	0.40
34:BA:528:C:C4'	34:BA:535:A:N6	2.84	0.40
34:BA:573:A:C2'	34:BA:574:A:C8	2.92	0.40
34:BA:579:G:O4'	34:BA:728:A:H1'	2.20	0.40
34:BA:596:C:N4	34:BA:645:C:O2	2.54	0.40
34:BA:612:C:O2'	34:BA:613:C:H5'	2.21	0.40
34:BA:668:G:H2'	34:BA:669:U:H6	1.86	0.40
34:BA:698:G:N2	34:BA:699:C:C2	2.89	0.40
34:BA:780:A:N3	34:BA:803:G:N1	2.69	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:799:G:C6	34:BA:800:G:C2	3.09	0.40
34:BA:818:G:N2	34:BA:820:U:N3	2.63	0.40
34:BA:901:A:H2	34:BA:902:G:O2'	2.04	0.40
34:BA:961:U:O4'	34:BA:983:A:C2	2.73	0.40
34:BA:1108:G:HO2'	34:BA:1109:C:H5'	1.84	0.40
34:BA:1135:U:O3'	34:BA:1136:U:C6	2.70	0.40
34:BA:1178:G:C2'	34:BA:1180:A:OP2	2.63	0.40
34:BA:1244:C:C2	34:BA:1245:A:N7	2.89	0.40
34:BA:1253:G:H22	34:BA:1285:A:N6	2.19	0.40
34:BA:1300:G:N2	34:BA:1335:C:C2	2.89	0.40
34:BA:1331:G:OP1	34:BA:1331:G:O4'	2.40	0.40
34:BA:1386:G:H2'	34:BA:1387:G:H8	1.86	0.40
34:BA:1480:G:O2'	34:BA:1481:U:C5'	2.61	0.40
35:BF:20:GLU:OE2	35:BF:205:ASP:OD2	2.39	0.40
35:BF:33:TYR:HB3	35:BF:42:ILE:O	2.20	0.40
35:BF:130:ARG:NE	35:BF:130:ARG:CA	2.78	0.40
35:BF:181:PHE:HD1	41:BL:71:GLY:HA3	1.81	0.40
35:BF:222:ILE:CB	35:BF:226:ARG:HH21	2.23	0.40
36:BG:15:THR:HG21	36:BG:181:ASN:H	1.85	0.40
36:BG:33:LEU:HD23	36:BG:36:ASP:HB3	2.01	0.40
36:BG:172:ARG:CZ	36:BG:172:ARG:CB	2.93	0.40
37:BH:14:ARG:HD3	37:BH:15:GLU:N	2.36	0.40
37:BH:20:TYR:CD2	37:BH:27:TYR:CD2	3.09	0.40
37:BH:89:THR:O	37:BH:90:GLY:C	2.63	0.40
38:BI:103:GLY:O	38:BI:105:VAL:N	2.55	0.40
38:BI:152:ARG:CD	38:BI:152:ARG:C	2.92	0.40
39:BJ:52:ILE:CG2	39:BJ:87:ARG:NH2	2.82	0.40
39:BJ:57:GLN:CD	39:BJ:57:GLN:C	2.88	0.40
41:BL:25:ASP:CG	41:BL:60:ARG:HB2	2.47	0.40
41:BL:39:LEU:HD12	41:BL:44:PHE:HB2	2.04	0.40
42:BM:33:PHE:CZ	42:BM:43:ALA:O	2.74	0.40
42:BM:113:LYS:HB2	42:BM:114:TYR:H	1.39	0.40
44:BO:80:VAL:N	44:BO:104:GLN:NE2	2.56	0.40
45:BP:11:VAL:CG2	50:BU:32:TYR:HD1	2.32	0.40
45:BP:17:LYS:O	45:BP:18:VAL:O	2.39	0.40
45:BP:82:VAL:HG12	45:BP:105:TYR:HD1	1.84	0.40
48:BS:29:VAL:HG21	48:BS:81:LEU:CD1	2.39	0.40
49:BT:32:TYR:O	49:BT:34:GLU:N	2.54	0.40
50:BU:10:VAL:HG11	50:BU:53:LEU:N	2.36	0.40
51:BV:21:LYS:HE2	51:BV:23:LYS:CB	2.51	0.40
53:BX:40:ALA:C	53:BX:42:GLN:N	2.77	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:2:GLY:C	54:BY:10:ARG:HB2	2.47	0.40
55:CA:13:HIS:HA	55:CA:77:GLY:C	2.47	0.40
55:CA:19:THR:HA	55:CA:20:THR:CB	2.50	0.40
55:CA:190:ILE:HG23	55:CA:194:VAL:HG21	2.03	0.40
55:CA:289:CYS:SG	55:CA:295:GLU:OE1	2.79	0.40
55:CA:374:ARG:NE	55:CA:585:ILE:HG12	2.35	0.40
55:CA:426:LEU:CA	55:CA:441:TYR:CD2	3.04	0.40
1:AA:6:A:H2	1:AA:2897:U:C1'	2.34	0.40
1:AA:35:G:C5	1:AA:454:A:C2	3.10	0.40
1:AA:200:U:C5	1:AA:201:C:C1'	3.05	0.40
1:AA:270(V):G:H5'	1:AA:270(W):G:OP2	2.21	0.40
1:AA:322:A:H1'	1:AA:341:G:C8	2.57	0.40
1:AA:363(C):G:H2'	1:AA:363(D):G:O5'	2.21	0.40
1:AA:398:G:OP2	27:Aa:59:PHE:HE2	2.04	0.40
1:AA:413:C:N4	1:AA:2410:G:H1	2.19	0.40
1:AA:424:G:C2'	1:AA:425:G:C5'	2.99	0.40
1:AA:445:C:O2'	1:AA:449:A:C8	2.74	0.40
1:AA:482:A:C8	1:AA:506:G:N2	2.90	0.40
1:AA:558:G:C2	1:AA:559:G:C8	3.08	0.40
1:AA:573:G:O3'	1:AA:576:U:O4	2.39	0.40
1:AA:594:U:N3	1:AA:595:C:N4	2.69	0.40
1:AA:607:U:N3	1:AA:608:A:N7	2.69	0.40
1:AA:623:G:N7	1:AA:624:C:C5	2.90	0.40
1:AA:678:C:C4	1:AA:679:C:C5	3.09	0.40
1:AA:705:A:N6	1:AA:727:A:C1'	2.84	0.40
1:AA:864:G:C2'	1:AA:865:C:C1'	2.91	0.40
1:AA:874:G:C2	1:AA:875:G:N7	2.89	0.40
1:AA:876:C:N3	1:AA:902:C:N3	2.69	0.40
1:AA:942:G:O3'	13:AM:32:THR:CA	2.68	0.40
1:AA:961:C:C5	1:AA:2031:A:H2	2.37	0.40
1:AA:1073:A:O3'	1:AA:1074:G:P	2.79	0.40
1:AA:1168:G:H8	1:AA:1168:G:O5'	2.04	0.40
1:AA:1179:C:C2'	1:AA:1180:C:C6	3.00	0.40
1:AA:1239:G:C2'	1:AA:1240:U:H5'	2.51	0.40
1:AA:1241:A:O2'	1:AA:1242:A:OP1	2.38	0.40
1:AA:1242:A:C5'	1:AA:1243:G:OP2	2.70	0.40
1:AA:1271:G:OP2	1:AA:1272:A:OP1	2.38	0.40
1:AA:1272:A:H5'	1:AA:1646:C:N3	2.35	0.40
1:AA:1274:A:O2'	1:AA:1275:A:H5'	2.21	0.40
1:AA:1280:G:C2'	1:AA:1281:G:H5'	2.51	0.40
1:AA:1304:C:H2'	1:AA:1305:C:H5'	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1355:G:N2	1:AA:1377:G:C1'	2.75	0.40
1:AA:1358:G:C8	1:AA:1371:G:C6	3.09	0.40
1:AA:1450:C:C2'	1:AA:1451:C:OP2	2.66	0.40
1:AA:1479:G:N2	1:AA:1515:C:C4	2.87	0.40
1:AA:1487:G:C5	1:AA:1488:G:N7	2.88	0.40
1:AA:1491:G:H1	1:AA:1493:C:H41	1.62	0.40
1:AA:1506:C:H2'	1:AA:1507:A:H4'	2.03	0.40
1:AA:1514:U:O2	1:AA:1514:U:C2'	2.69	0.40
1:AA:1565:C:H6	1:AA:1565:C:H5''	1.86	0.40
1:AA:1567:A:N6	4:AD:84:TYR:CE2	2.89	0.40
1:AA:1625:C:C2	1:AA:1626:G:H1'	2.56	0.40
1:AA:1650:G:O2'	1:AA:1651:G:OP1	2.38	0.40
1:AA:1699:G:H2'	1:AA:1763:G:N2	2.34	0.40
1:AA:1762:A:H8	1:AA:1762:A:C3'	2.09	0.40
1:AA:1944:U:C1'	1:AA:1955:U:C1'	2.86	0.40
1:AA:2043:C:C2	1:AA:2044:C:C5	3.10	0.40
1:AA:2074:U:C2	1:AA:2436:G:C2	3.08	0.40
1:AA:2078:C:H5'	1:AA:2434:A:H4'	2.03	0.40
1:AA:2080:G:H2'	1:AA:2081:C:O5'	2.21	0.40
1:AA:2091:U:C2'	1:AA:2092:U:OP1	2.69	0.40
1:AA:2189:U:H2'	1:AA:2190:G:H8	1.86	0.40
1:AA:2205:C:OP1	27:Aa:44:THR:HG23	2.21	0.40
1:AA:2218:G:C6	1:AA:2219:G:C5	3.09	0.40
1:AA:2282:G:OP1	1:AA:2283:C:O4'	2.39	0.40
1:AA:2358:G:N2	1:AA:2359:C:O4'	2.55	0.40
1:AA:2371:G:N2	1:AA:2372:G:N1	2.70	0.40
1:AA:2371:G:H2'	1:AA:2372:G:C1'	2.51	0.40
1:AA:2382:G:O5'	1:AA:2382:G:H8	2.05	0.40
1:AA:2392:A:N1	1:AA:2424:C:O2	2.53	0.40
1:AA:2564:A:C6	1:AA:2647:U:H4'	2.55	0.40
1:AA:2597:G:HO2'	1:AA:2598:A:C5'	2.33	0.40
1:AA:2639:A:N3	1:AA:2778:A:C2	2.89	0.40
1:AA:2756:U:O2'	1:AA:2757:A:OP2	2.37	0.40
1:AA:2793:G:N3	1:AA:2794:C:C6	2.89	0.40
1:AA:2801:A:OP1	1:AA:2802:G:P	2.79	0.40
1:AA:2821:A:OP2	5:AE:110:GLY:O	2.40	0.40
1:AA:2865:U:C6	1:AA:2865:U:O5'	2.62	0.40
1:AA:2877:G:C3'	1:AA:2878:U:H6	2.34	0.40
1:AA:2881:C:H4'	15:AO:117:VAL:HG21	2.03	0.40
2:AB:9:G:N1	2:AB:10:C:N4	2.70	0.40
2:AB:14:U:HO2'	2:AB:107:U:H1'	1.79	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:45:A:N6	2:AB:46:A:C2	2.88	0.40
3:AC:175:VAL:HB	3:AC:189:ILE:HA	2.03	0.40
4:AD:5:LYS:O	4:AD:6:PHE:O	2.39	0.40
4:AD:9:TYR:CD1	4:AD:25:THR:HG23	2.56	0.40
4:AD:70:TRP:CD1	4:AD:70:TRP:N	2.88	0.40
6:AF:106:ARG:CG	6:AF:107:LYS:H	2.31	0.40
6:AF:106:ARG:NH1	6:AF:106:ARG:CB	2.84	0.40
6:AF:118:ALA:HB1	6:AF:122:LYS:CB	2.49	0.40
7:AG:9:ARG:CZ	7:AG:9:ARG:CB	3.00	0.40
7:AG:34:LEU:HD12	7:AG:34:LEU:H	1.86	0.40
7:AG:36:LYS:CG	7:AG:95:ARG:HD3	2.51	0.40
7:AG:41:GLN:HE21	7:AG:41:GLN:HB2	1.54	0.40
7:AG:153:ARG:HD2	7:AG:153:ARG:C	2.46	0.40
8:AH:7:LEU:HB3	8:AH:65:HIS:CE1	2.56	0.40
8:AH:61:HIS:HA	8:AH:64:LEU:HD12	2.04	0.40
8:AH:90:LYS:NZ	8:AH:163:TYR:CD1	2.81	0.40
8:AH:104:GLU:O	8:AH:105:LEU:O	2.39	0.40
8:AH:140:LYS:HA	8:AH:143:GLN:CD	2.46	0.40
8:AH:149:ARG:HE	8:AH:149:ARG:HB2	1.53	0.40
11:AK:58:ASP:OD1	11:AK:59:LYS:HG3	2.20	0.40
11:AK:74:ARG:HG2	11:AK:76:SER:OG	2.20	0.40
11:AK:103:VAL:HG21	11:AK:120:LEU:HD21	2.04	0.40
11:AK:135:PRO:O	11:AK:136:GLU:C	2.64	0.40
12:AL:35:VAL:O	12:AL:35:VAL:HG23	2.22	0.40
12:AL:43:VAL:HG11	12:AL:54:GLU:CA	2.43	0.40
13:AM:65:ARG:NH2	13:AM:68:GLN:HE22	2.15	0.40
13:AM:72:PRO:HB3	13:AM:111:ARG:HB3	1.98	0.40
13:AM:83:VAL:O	13:AM:84:ASN:CB	2.70	0.40
15:AO:17:ARG:O	15:AO:20:LEU:N	2.54	0.40
15:AO:54:LEU:CA	15:AO:57:ARG:HB2	2.52	0.40
15:AO:73:VAL:CG2	15:AO:74:LYS:H	2.25	0.40
16:AP:9:ARG:NH1	16:AP:9:ARG:N	2.53	0.40
16:AP:109:GLY:O	16:AP:111:GLU:HG2	2.22	0.40
17:AQ:24:PRO:C	17:AQ:25:GLY:O	2.63	0.40
17:AQ:31:SER:C	17:AQ:32:TYR:CD1	3.00	0.40
17:AQ:72:VAL:HB	17:AQ:74:ARG:NE	2.37	0.40
18:AR:105:VAL:O	18:AR:109:LEU:CD1	2.69	0.40
19:AS:22:VAL:HG13	19:AS:23:GLU:H	1.86	0.40
23:AW:25:PRO:HG3	23:AW:84:GLU:O	2.21	0.40
24:AX:64:ASP:HB3	24:AX:84:LEU:CD1	2.27	0.40
25:AY:63:ARG:NH1	25:AY:63:ARG:CB	2.84	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AZ:52:HIS:O	26:AZ:53:LEU:C	2.64	0.40
29:Ac:29:ASN:O	29:Ac:30:THR:C	2.63	0.40
31:Ae:30:ARG:NH1	31:Ae:41:ILE:O	2.54	0.40
32:Af:3:VAL:C	32:Af:5:ALA:N	2.79	0.40
34:BA:80:G:C2'	34:BA:81:G:H8	2.34	0.40
34:BA:122:G:H2'	34:BA:123:C:O4'	2.21	0.40
34:BA:136:C:O2	34:BA:137:C:C6	2.75	0.40
34:BA:175:C:C2	34:BA:176:C:C5	3.09	0.40
34:BA:235:C:H1'	50:BU:61:GLU:OE1	2.21	0.40
34:BA:247:G:C6	34:BA:278:G:C2	3.09	0.40
34:BA:248:C:O4'	34:BA:282:A:H2	2.03	0.40
34:BA:341:C:H2'	34:BA:342:C:H6	1.87	0.40
34:BA:518:C:H5	34:BA:530:G:C8	2.39	0.40
34:BA:520:A:OP1	45:BP:52:LEU:CD2	2.68	0.40
34:BA:590:C:C2'	34:BA:591:U:O5'	2.70	0.40
34:BA:602:A:C6	34:BA:603:U:C4	3.10	0.40
34:BA:624:C:O2	34:BA:625:G:C8	2.75	0.40
34:BA:658:G:OP1	48:BS:31:LEU:HD23	2.21	0.40
34:BA:698:G:C6	34:BA:699:C:N4	2.89	0.40
34:BA:1065:U:C5	34:BA:1190:G:N3	2.90	0.40
34:BA:1210:C:C4'	34:BA:1214:C:H42	2.33	0.40
34:BA:1273:G:C2'	34:BA:1274:G:H8	2.35	0.40
34:BA:1287:A:H61	34:BA:1371:G:C5'	2.34	0.40
34:BA:1309:G:N2	34:BA:1328:C:C2'	2.83	0.40
34:BA:1315:U:H3	34:BA:1319:A:N6	2.18	0.40
34:BA:1318:A:O5'	34:BA:1318:A:H8	2.04	0.40
34:BA:1415:G:C6	34:BA:1486:G:N1	2.87	0.40
34:BA:1466:C:O5'	34:BA:1466:C:H6	2.04	0.40
35:BF:8:LYS:O	35:BF:9:GLU:CB	2.67	0.40
35:BF:39:ILE:HG12	35:BF:40:HIS:O	2.21	0.40
35:BF:45:GLN:C	35:BF:49:GLU:OE1	2.65	0.40
35:BF:58:ILE:HG13	35:BF:58:ILE:H	1.72	0.40
35:BF:81:VAL:O	35:BF:82:ARG:C	2.64	0.40
35:BF:165:VAL:CG2	35:BF:166:ASP:H	2.16	0.40
35:BF:171:ALA:HA	35:BF:174:VAL:CG2	2.51	0.40
35:BF:204:ASN:HD22	35:BF:204:ASN:C	2.30	0.40
36:BG:74:GLY:C	36:BG:76:VAL:H	2.28	0.40
36:BG:112:SER:OG	36:BG:115:LEU:HG	2.21	0.40
36:BG:117:ALA:O	36:BG:121:ALA:CB	2.69	0.40
37:BH:54:TYR:OH	37:BH:206:PHE:CE1	2.68	0.40
37:BH:100:ARG:NH1	37:BH:137:SER:HA	2.35	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:106:TYR:O	37:BH:107:ARG:C	2.64	0.40
37:BH:122:ARG:HA	37:BH:134:ASP:HB2	2.03	0.40
38:BI:101:ILE:HG12	38:BI:118:ILE:O	2.22	0.40
39:BJ:18:GLN:O	39:BJ:19:LEU:C	2.63	0.40
39:BJ:41:GLU:HB3	39:BJ:62:TRP:O	2.21	0.40
40:BK:140:ASP:O	40:BK:143:ARG:HD2	2.22	0.40
40:BK:145:ALA:O	40:BK:146:GLU:CB	2.49	0.40
42:BM:58:HIS:HD2	42:BM:59:PHE:CD1	2.25	0.40
42:BM:119:ALA:O	42:BM:120:ARG:HB2	2.21	0.40
43:BN:12:ASP:C	43:BN:15:THR:HG22	2.45	0.40
43:BN:27:ALA:HB1	43:BN:74:ILE:CD1	2.52	0.40
44:BO:84:VAL:HG21	51:BV:88:LYS:HZ2	1.85	0.40
45:BP:5:PRO:C	45:BP:6:THR:HG23	2.45	0.40
45:BP:29:GLY:O	45:BP:30:ALA:C	2.65	0.40
45:BP:85:ILE:CD1	45:BP:99:HIS:O	2.69	0.40
45:BP:119:LYS:O	45:BP:120:TYR:C	2.64	0.40
45:BP:122:THR:O	45:BP:123:LYS:C	2.63	0.40
46:BQ:66:LEU:N	46:BQ:70:LEU:HA	2.35	0.40
50:BU:36:ILE:N	50:BU:36:ILE:CD1	2.65	0.40
50:BU:93:GLN:O	50:BU:94:ASN:C	2.64	0.40
51:BV:39:VAL:O	51:BV:40:LEU:C	2.64	0.40
52:BW:53:ASN:HD21	52:BW:56:GLN:CB	2.13	0.40
53:BX:53:LEU:HB2	53:BX:100:ILE:HD11	2.03	0.40
53:BX:75:ASN:O	53:BX:76:ALA:C	2.64	0.40
55:CA:318:PHE:HA	55:CA:321:LYS:HE2	2.02	0.40
55:CA:483:ARG:HG3	55:CA:483:ARG:H	1.69	0.40
1:AA:30:G:OP1	18:AR:11:ARG:CZ	2.69	0.40
1:AA:56:A:H2'	1:AA:57:C:H6	1.86	0.40
1:AA:119:A:C2'	1:AA:120:U:OP2	2.69	0.40
1:AA:233:A:N6	1:AA:429:A:C2	2.90	0.40
1:AA:270(L):U:O2	1:AA:270(L):U:C2'	2.65	0.40
1:AA:286:C:H2'	1:AA:287:C:H6	1.83	0.40
1:AA:290:G:C2'	1:AA:291:C:O5'	2.68	0.40
1:AA:295:G:C8	1:AA:338:G:N2	2.89	0.40
1:AA:298:G:H1	1:AA:338:G:C4'	2.34	0.40
1:AA:355:G:O6	1:AA:356:G:O6	2.39	0.40
1:AA:465:G:C2	1:AA:683:C:O2'	2.65	0.40
1:AA:491:G:C6	1:AA:492:A:C6	3.09	0.40
1:AA:506:G:OP2	1:AA:506:G:O4'	2.40	0.40
1:AA:515:A:H8	1:AA:515:A:H3'	1.82	0.40
1:AA:535:C:H2'	1:AA:536:A:C5'	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:558:G:N1	1:AA:559:G:C6	2.89	0.40
1:AA:575:A:HO2'	1:AA:576:U:H5'	1.77	0.40
1:AA:578:A:H2'	1:AA:2018:G:C5'	2.29	0.40
1:AA:609(A):G:C5	1:AA:610:C:C5	3.09	0.40
1:AA:629:G:C6	1:AA:630:G:C6	3.09	0.40
1:AA:678:C:N3	1:AA:679:C:C5	2.90	0.40
1:AA:728:G:C4'	1:AA:729:G:C8	3.05	0.40
1:AA:866:A:N3	1:AA:866:A:C2'	2.74	0.40
1:AA:878:A:N1	1:AA:897:C:O2	2.52	0.40
1:AA:928:G:C8	1:AA:929:G:C8	3.09	0.40
1:AA:1019:U:C6	1:AA:1019:U:C3'	3.04	0.40
1:AA:1036:G:C2	1:AA:1037:G:C8	3.09	0.40
1:AA:1042:G:N7	1:AA:1113:U:O4	2.48	0.40
1:AA:1046:A:N7	9:AI:6:ASN:CA	2.84	0.40
1:AA:1058:G:H2'	1:AA:1059:G:H5''	2.02	0.40
1:AA:1061:U:H2'	10:AJ:52:ILE:CG2	2.52	0.40
1:AA:1064:C:N3	1:AA:1065:U:N1	2.69	0.40
1:AA:1069:A:N1	1:AA:1096:A:C4'	2.83	0.40
1:AA:1132:A:H2'	1:AA:1133:U:C2	2.56	0.40
1:AA:1266:G:H2'	1:AA:1267:U:OP2	2.20	0.40
1:AA:1326:U:C4	1:AA:1327:C:C6	3.09	0.40
1:AA:1348:G:O6	1:AA:1349:A:C6	2.74	0.40
1:AA:1366:A:H2	1:AA:1367:A:H1'	1.86	0.40
1:AA:1376:C:O2	1:AA:1377:G:C1'	2.69	0.40
1:AA:1524:G:N3	1:AA:1525:G:C8	2.89	0.40
1:AA:1565:C:C3'	1:AA:1565:C:C6	3.04	0.40
1:AA:1749:A:C2'	1:AA:1750:G:H5'	2.51	0.40
1:AA:1799:G:C8	4:AD:183:ARG:NH2	2.80	0.40
1:AA:1835:G:O2'	1:AA:1836:C:H5'	2.21	0.40
1:AA:1838:C:C4	1:AA:1899:G:C6	3.10	0.40
1:AA:1993:U:C6	1:AA:1993:U:O5'	2.75	0.40
1:AA:2006:C:O3'	1:AA:2823:A:C2	2.74	0.40
1:AA:2016:U:C2'	1:AA:2017:U:O4'	2.68	0.40
1:AA:2043:C:C2'	1:AA:2043:C:O2	2.69	0.40
1:AA:2069:G:C2	1:AA:2070:G:C8	3.09	0.40
1:AA:2246:G:C1'	1:AA:2426:A:C2	3.04	0.40
1:AA:2339:G:H2'	1:AA:2340:G:H8	1.86	0.40
1:AA:2355:C:OP1	24:AX:25:ARG:NH2	2.54	0.40
1:AA:2418:A:C6	1:AA:2419:U:N3	2.90	0.40
1:AA:2472:G:P	55:CA:529:ARG:HG2	2.56	0.40
1:AA:2500:U:HO2'	1:AA:2501:C:P	2.44	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2666:C:N4	1:AA:2667:C:N4	2.60	0.40
1:AA:2675:A:OP1	12:AL:32:TYR:CE2	2.71	0.40
1:AA:2720:U:C2'	1:AA:2721:A:C8	2.98	0.40
1:AA:2744:G:C6	1:AA:2761:G:C6	3.10	0.40
1:AA:2828:C:N3	1:AA:2829:C:N4	2.69	0.40
1:AA:2853:C:O2'	1:AA:2854:G:C5'	2.69	0.40
2:AB:37:C:H6	2:AB:37:C:O5'	2.05	0.40
2:AB:52:A:N3	2:AB:53:A:O4'	2.54	0.40
2:AB:89(A):A:C3'	2:AB:90:C:H5'	2.50	0.40
2:AB:96:G:N3	2:AB:97:G:C8	2.90	0.40
3:AC:43:VAL:O	3:AC:44:HIS:ND1	2.53	0.40
3:AC:52:ARG:HG3	3:AC:53:ARG:N	2.37	0.40
4:AD:12:SER:HB2	4:AD:14:ARG:NH2	2.34	0.40
4:AD:73:VAL:HG11	4:AD:121:PRO:HD3	2.03	0.40
4:AD:207:GLY:O	4:AD:208:LYS:C	2.65	0.40
4:AD:245:PRO:O	4:AD:252:TRP:CH2	2.74	0.40
5:AE:55:ASN:HB2	5:AE:73:GLU:CD	2.46	0.40
5:AE:102:VAL:CG2	5:AE:104:VAL:HG23	2.50	0.40
5:AE:108:SER:OG	5:AE:163:GLU:C	2.64	0.40
5:AE:119:ARG:HE	5:AE:120:TRP:CA	2.34	0.40
6:AF:31:HIS:O	6:AF:38:ARG:NH1	2.54	0.40
7:AG:36:LYS:N	7:AG:100:TRP:HH2	2.20	0.40
7:AG:59:GLU:HG3	7:AG:60:LEU:H	1.87	0.40
7:AG:105:LYS:HA	7:AG:109:VAL:HG11	2.04	0.40
7:AG:107:LEU:CG	7:AG:177:GLY:O	2.70	0.40
7:AG:110:ALA:CB	7:AG:139:LEU:HD11	2.50	0.40
7:AG:113:ARG:HH11	7:AG:139:LEU:HD22	1.86	0.40
8:AH:19:VAL:HG12	8:AH:24:VAL:CG1	2.37	0.40
8:AH:45:VAL:CG1	8:AH:50:VAL:HG13	2.49	0.40
8:AH:97:ARG:NH2	8:AH:99:VAL:HG22	2.36	0.40
8:AH:113:VAL:O	8:AH:113:VAL:CG1	2.65	0.40
10:AJ:33:ASN:HB3	10:AJ:63:ARG:HG3	1.54	0.40
10:AJ:51:ALA:O	10:AJ:73:PRO:HD2	2.20	0.40
11:AK:15:LEU:CD2	11:AK:137:LYS:C	2.86	0.40
11:AK:34:LEU:HA	11:AK:49:GLY:HA2	2.03	0.40
11:AK:53:VAL:HG12	11:AK:130:HIS:NE2	2.36	0.40
11:AK:54:VAL:CA	11:AK:130:HIS:CE1	3.05	0.40
11:AK:115:ARG:HA	11:AK:118:LYS:CG	2.49	0.40
12:AL:12:ASP:C	12:AL:94:ARG:HD2	2.47	0.40
12:AL:101:PRO:CD	12:AL:119:PRO:O	2.63	0.40
13:AM:27:HIS:NE2	19:AS:83:ARG:HB2	2.37	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:34:GLY:C	13:AM:36:LYS:N	2.78	0.40
13:AM:112:LEU:HB2	13:AM:128:HIS:CE1	2.56	0.40
13:AM:113:LYS:HG2	13:AM:114:ILE:H	1.86	0.40
14:AN:6:ARG:HH21	14:AN:8:LYS:N	2.17	0.40
14:AN:64:ILE:HA	14:AN:106:VAL:O	2.22	0.40
14:AN:69:PHE:O	14:AN:71:ASP:CG	2.65	0.40
14:AN:118:LEU:HD23	14:AN:118:LEU:H	1.87	0.40
16:AP:28:VAL:CG2	16:AP:101:LEU:HG	2.51	0.40
16:AP:29:PHE:O	16:AP:29:PHE:HD1	2.03	0.40
18:AR:32:PHE:O	18:AR:35:ALA:CB	2.59	0.40
18:AR:45:TYR:C	18:AR:49:HIS:CE1	3.00	0.40
19:AS:9:GLY:O	19:AS:10:LYS:CB	2.57	0.40
19:AS:17:GLY:O	19:AS:19:LYS:N	2.51	0.40
19:AS:37:VAL:CG1	19:AS:37:VAL:O	2.68	0.40
19:AS:58:VAL:HG12	19:AS:59:ALA:N	2.37	0.40
23:AW:9:TYR:C	23:AW:10:ARG:CG	2.94	0.40
23:AW:80:ARG:HB2	23:AW:81:ARG:H	1.37	0.40
23:AW:88:PHE:CD1	23:AW:88:PHE:N	2.90	0.40
24:AX:53:MET:SD	24:AX:59:LEU:CD2	3.09	0.40
25:AY:33:GLN:H	25:AY:33:GLN:CD	2.29	0.40
26:AZ:19:GLN:C	26:AZ:21:ALA:N	2.77	0.40
27:Aa:11:PRO:O	27:Aa:12:ALA:CB	2.70	0.40
27:Aa:40:HIS:CB	27:Aa:41:PRO:HD3	2.51	0.40
27:Aa:41:PRO:C	27:Aa:57:GLU:OE2	2.65	0.40
30:Ad:5:TRP:CD2	30:Ad:7:PRO:HD3	2.56	0.40
33:Ag:290:UNK:CB	33:Ag:293:UNK:CB	2.99	0.40
34:BA:22:G:OP2	34:BA:561:U:O2	2.39	0.40
34:BA:82:U:C5	34:BA:85:U:OP2	2.74	0.40
34:BA:97:U:H6	34:BA:97:U:O5'	2.04	0.40
34:BA:136:C:O4'	49:BT:1:MET:HE1	2.21	0.40
34:BA:153:C:O2'	34:BA:154:C:H5'	2.22	0.40
34:BA:191:G:C6	34:BA:192:U:C4	3.10	0.40
34:BA:397:A:C2'	34:BA:398:C:OP2	2.69	0.40
34:BA:398:C:H2'	34:BA:399:G:C8	2.56	0.40
34:BA:429:U:O2	34:BA:431:A:N7	2.54	0.40
34:BA:437:U:C5	34:BA:438:G:C5	3.09	0.40
34:BA:457:C:C6	34:BA:457:C:H3'	2.56	0.40
34:BA:502:G:C2	34:BA:503:C:C2	3.10	0.40
34:BA:511:C:C4	34:BA:541:G:C2	3.10	0.40
34:BA:551:U:C2	34:BA:552:U:C5	3.09	0.40
34:BA:609:A:O2'	34:BA:610:G:H5'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:650:G:C2	34:BA:651:C:C6	3.09	0.40
34:BA:673:G:C2	34:BA:674:G:C6	3.10	0.40
34:BA:674:G:C2'	34:BA:675:A:O5'	2.70	0.40
34:BA:698:G:O2'	34:BA:699:C:H5'	2.21	0.40
34:BA:712:A:H2'	34:BA:713:G:O4'	2.21	0.40
34:BA:791:G:N7	34:BA:792:A:N7	2.68	0.40
34:BA:835:U:C2	34:BA:852:G:N2	2.89	0.40
34:BA:930:C:C4	34:BA:931:C:C5	3.09	0.40
34:BA:1128:C:H4'	34:BA:1148:U:H5	1.85	0.40
34:BA:1181:G:O2'	34:BA:1182:G:H5'	2.20	0.40
34:BA:1201:A:N3	34:BA:1201:A:C2'	2.80	0.40
34:BA:1213:A:C4	34:BA:1215:G:C5	3.10	0.40
34:BA:1284:C:C6	34:BA:1285:A:C8	3.09	0.40
34:BA:1350:A:H2'	34:BA:1351:U:H6	1.86	0.40
34:BA:1400:C:O5'	34:BA:1400:C:H6	2.05	0.40
34:BA:1416:G:C5	34:BA:1417:G:C5	3.09	0.40
35:BF:73:THR:HA	35:BF:94:ASN:CA	2.52	0.40
35:BF:80:ILE:CG1	35:BF:208:ILE:HD13	2.52	0.40
35:BF:163:PHE:CZ	35:BF:187:LEU:N	2.90	0.40
35:BF:169:LYS:NZ	35:BF:170:GLU:HB2	2.35	0.40
36:BG:10:PHE:HB3	36:BG:11:ARG:NE	2.32	0.40
36:BG:90:GLU:O	36:BG:91:LEU:C	2.64	0.40
38:BI:142:LEU:C	38:BI:143:ARG:HD3	2.47	0.40
38:BI:145:LYS:O	38:BI:146:ALA:C	2.64	0.40
39:BJ:1:MET:SD	39:BJ:67:MET:C	3.05	0.40
39:BJ:4:TYR:HA	39:BJ:93:SER:OG	2.22	0.40
39:BJ:45:LEU:HA	39:BJ:59:TYR:HA	2.03	0.40
40:BK:108:ALA:O	40:BK:109:ASN:C	2.64	0.40
41:BL:31:PHE:O	41:BL:32:LYS:C	2.64	0.40
41:BL:87:SER:HB2	41:BL:92:ARG:C	2.45	0.40
42:BM:16:ARG:HG2	42:BM:18:PHE:HE1	1.72	0.40
43:BN:8:LEU:HD12	43:BN:16:LEU:HD13	2.00	0.40
43:BN:15:THR:OG1	43:BN:93:GLY:C	2.64	0.40
43:BN:37:PRO:HA	43:BN:72:VAL:HA	2.02	0.40
44:BO:14:VAL:HG11	44:BO:35:PRO:HG2	2.02	0.40
44:BO:21:ILE:HD11	44:BO:82:VAL:HG11	2.03	0.40
44:BO:54:ARG:HH11	44:BO:54:ARG:CG	2.22	0.40
45:BP:7:ILE:O	45:BP:10:LEU:HB2	2.21	0.40
45:BP:68:ALA:HB1	45:BP:99:HIS:N	2.37	0.40
45:BP:68:ALA:CB	45:BP:98:TYR:C	2.89	0.40
48:BS:60:VAL:O	48:BS:61:GLY:C	2.64	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:62:GLN:OE1	48:BS:65:ARG:NH2	2.54	0.40
49:BT:4:ILE:O	49:BT:66:PRO:HA	2.21	0.40
49:BT:67:THR:CB	49:BT:70:ALA:HB2	2.43	0.40
50:BU:15:MET:HB3	50:BU:18:THR:OG1	2.22	0.40
50:BU:60:ILE:HD13	50:BU:62:SER:CA	2.52	0.40
52:BW:36:ARG:C	52:BW:38:SER:N	2.79	0.40
53:BX:14:LYS:O	53:BX:17:ARG:N	2.54	0.40
55:CA:10:ILE:HG12	55:CA:96:LEU:HD13	2.04	0.40
55:CA:72:ILE:HG22	55:CA:73:VAL:N	2.37	0.40
55:CA:149:VAL:CG1	55:CA:150:ASN:N	2.84	0.40
55:CA:224:GLY:O	55:CA:271:GLY:O	2.40	0.40
55:CA:316:SER:HB2	55:CA:317:PRO:HD2	2.01	0.40
55:CA:400:TYR:H	55:CA:470:SER:N	2.17	0.40
1:AA:5:A:N3	1:AA:6:A:C8	2.89	0.40
1:AA:6:A:N3	1:AA:2898:U:C2	2.89	0.40
1:AA:47:C:C4	1:AA:179:G:C6	3.09	0.40
1:AA:82:G:C2	1:AA:83:G:N2	2.90	0.40
1:AA:128:C:N4	1:AA:129:C:N4	2.69	0.40
1:AA:142:G:H2'	1:AA:143:C:H6	1.82	0.40
1:AA:174:C:O2'	1:AA:175:G:H5'	2.22	0.40
1:AA:204:A:H4'	1:AA:205:G:H5'	2.01	0.40
1:AA:209:C:O2'	1:AA:210:C:H5'	2.21	0.40
1:AA:222:A:C8	1:AA:224:G:C8	3.09	0.40
1:AA:256:A:H2'	1:AA:257:A:C8	2.56	0.40
1:AA:270(V):G:O6	1:AA:270(W):G:O6	2.39	0.40
1:AA:282:A:C2	1:AA:283:A:O3'	2.75	0.40
1:AA:291:C:N4	1:AA:292:C:C4	2.90	0.40
1:AA:301:G:C5	1:AA:317:G:N1	2.89	0.40
1:AA:302:C:N3	1:AA:303:U:C4	2.90	0.40
1:AA:310:A:C2	1:AA:312:G:H1'	2.56	0.40
1:AA:311:A:C1'	1:AA:332:A:C6	3.04	0.40
1:AA:363(D):G:N2	1:AA:363(E):U:H1'	2.36	0.40
1:AA:412:A:C6	1:AA:413:C:C2	3.09	0.40
1:AA:416:C:H3'	1:AA:416:C:H6	1.86	0.40
1:AA:432:A:H8	1:AA:432:A:O5'	2.04	0.40
1:AA:463:G:C2	1:AA:467:G:C6	3.09	0.40
1:AA:496:G:C6	1:AA:497:A:C6	3.09	0.40
1:AA:532:A:H62	18:AR:45:TYR:HH	1.58	0.40
1:AA:563:G:C5	1:AA:2018:G:C2	3.10	0.40
1:AA:601:C:O2	1:AA:601:C:C2'	2.61	0.40
1:AA:638:G:N2	1:AA:651:G:H5'	2.35	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:686:G:C6	30:Ad:12:ARG:CZ	3.05	0.40
1:AA:704:G:N3	1:AA:704:G:H2'	2.36	0.40
1:AA:713:G:H2'	1:AA:714:U:OP2	2.22	0.40
1:AA:733:G:OP2	1:AA:733:G:H8	2.04	0.40
1:AA:743:G:C6	1:AA:744:G:C6	3.09	0.40
1:AA:746:A:C5	1:AA:2611:U:H4'	2.56	0.40
1:AA:752:A:O2'	1:AA:753:C:H6	2.04	0.40
1:AA:799:G:C5	1:AA:800:A:N1	2.89	0.40
1:AA:801:G:P	6:AF:57:VAL:HA	2.62	0.40
1:AA:839:U:H4'	1:AA:1191:G:H21	1.86	0.40
1:AA:856:C:H1'	24:AX:69:PHE:CD2	2.56	0.40
1:AA:884:C:O5'	1:AA:884:C:C6	2.75	0.40
1:AA:987:G:O6	1:AA:988:A:C6	2.74	0.40
1:AA:988:A:O2'	1:AA:1157:G:C5'	2.65	0.40
1:AA:1148:A:C6	1:AA:1149:G:C6	3.10	0.40
1:AA:1158:C:C5'	26:AZ:31:LEU:HB3	2.47	0.40
1:AA:1213:A:O2'	1:AA:1239:G:C1'	2.70	0.40
1:AA:1222:C:N3	1:AA:1227:A:N6	2.70	0.40
1:AA:1223:C:N3	1:AA:1225:C:H5''	2.36	0.40
1:AA:1228:G:C5'	1:AA:1228:G:H8	2.34	0.40
1:AA:1259:G:N3	1:AA:1260:G:C8	2.89	0.40
1:AA:1312:U:O2'	1:AA:1313:U:H5'	2.22	0.40
1:AA:1367:A:H3'	1:AA:1367:A:C8	2.56	0.40
1:AA:1476:C:O2	1:AA:1476:C:C2'	2.69	0.40
1:AA:1545(A):A:H8	1:AA:1545(A):A:P	2.44	0.40
1:AA:1575:C:N4	1:AA:1576:U:H3	2.20	0.40
1:AA:1639:U:C2'	1:AA:1640:C:H5''	2.42	0.40
1:AA:1687:G:C2'	1:AA:1701:A:H61	2.34	0.40
1:AA:1703:G:H2'	1:AA:1704:G:O4'	2.21	0.40
1:AA:1712:C:H2'	1:AA:1716:U:C6	2.44	0.40
1:AA:1760:A:H2'	1:AA:1761:C:O4'	2.22	0.40
1:AA:1785:A:H2'	1:AA:1786:A:C5	2.57	0.40
1:AA:1790:C:O2	1:AA:1791:A:N7	2.54	0.40
1:AA:1819:A:C2'	1:AA:1820:U:OP2	2.70	0.40
1:AA:1949:G:C2	1:AA:1958:C:N3	2.90	0.40
1:AA:1967:C:O2'	1:AA:1968:G:OP1	2.38	0.40
1:AA:1991:U:C2'	1:AA:1992:G:OP2	2.69	0.40
1:AA:2094:G:C8	1:AA:2095:C:C5	3.10	0.40
1:AA:2142:C:N3	1:AA:2143:C:C4	2.89	0.40
1:AA:2157:G:O2'	1:AA:2158:A:P	2.79	0.40
1:AA:2175:C:N3	1:AA:2176:A:C8	2.89	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2215:G:P	1:AA:2215:G:C8	3.13	0.40
1:AA:2249:U:O2'	1:AA:2275:C:C2	2.73	0.40
1:AA:2269:A:C6	1:AA:2270:G:C4	3.10	0.40
1:AA:2295:C:OP1	16:AP:9:ARG:NE	2.54	0.40
1:AA:2305:A:C8	1:AA:2306:C:H5'	2.56	0.40
1:AA:2344:U:O2'	1:AA:2345:G:H3'	2.22	0.40
1:AA:2404:C:N1	1:AA:2414:G:N2	2.69	0.40
1:AA:2447:G:N7	1:AA:2500:U:N1	2.69	0.40
1:AA:2457:U:C4	1:AA:2458:G:C2	3.09	0.40
1:AA:2458:G:C5	1:AA:2490:G:C6	3.09	0.40
1:AA:2468:G:O2'	1:AA:2469:A:C5'	2.59	0.40
1:AA:2468:G:O2'	1:AA:2469:A:C8	2.70	0.40
1:AA:2509:G:C2	1:AA:2580:U:C2	3.09	0.40
1:AA:2522:U:O2	1:AA:2765:A:C6	2.75	0.40
1:AA:2568:C:C6	1:AA:2568:C:O5'	2.75	0.40
1:AA:2596:U:C5	1:AA:2597:G:C6	3.10	0.40
1:AA:2607:G:O6	1:AA:2608:G:N2	2.55	0.40
1:AA:2618:G:N2	1:AA:2619:C:N1	2.69	0.40
1:AA:2692:C:C2	1:AA:2693:A:C8	3.09	0.40
1:AA:2746:U:H2'	1:AA:2747:G:H8	1.86	0.40
1:AA:2748:A:O2'	8:AH:66:GLY:CA	2.62	0.40
1:AA:2755:C:H4'	1:AA:2756:U:H6	1.85	0.40
1:AA:2756:U:C5	1:AA:2758:A:N6	2.89	0.40
1:AA:2781:A:C8	1:AA:2782:G:H1'	2.57	0.40
1:AA:2820:A:H62	5:AE:192:ASN:H	1.69	0.40
1:AA:2843:G:N3	1:AA:2844:G:C8	2.90	0.40
1:AA:2845:G:N3	1:AA:2846:G:C8	2.90	0.40
1:AA:2899:G:C2	1:AA:2900:A:C8	3.10	0.40
2:AB:1:U:O4'	2:AB:1:U:OP1	2.39	0.40
2:AB:6:C:N3	2:AB:115:G:N2	2.69	0.40
2:AB:77:U:C3'	23:AW:78:LYS:HE3	2.50	0.40
2:AB:82:G:O2'	2:AB:83:G:P	2.79	0.40
2:AB:95:U:C2	2:AB:96:G:N7	2.89	0.40
3:AC:119:VAL:O	3:AC:119:VAL:HG23	2.21	0.40
3:AC:138:PRO:HB3	3:AC:145:VAL:HG22	2.02	0.40
3:AC:207:THR:O	3:AC:207:THR:HG22	2.21	0.40
4:AD:27:THR:CG2	4:AD:82:ILE:HG22	2.52	0.40
4:AD:55:GLY:HA2	4:AD:217:ARG:HE	1.84	0.40
4:AD:168:ARG:HD3	4:AD:173:VAL:CG2	2.33	0.40
5:AE:5:LEU:O	5:AE:195:LEU:HD22	2.21	0.40
5:AE:94:GLU:C	5:AE:96:PHE:N	2.77	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:117:MET:HG2	5:AE:136:ARG:NE	2.10	0.40
5:AE:154:LYS:CD	5:AE:155:LYS:O	2.68	0.40
5:AE:164:ARG:CG	5:AE:165:VAL:N	2.84	0.40
6:AF:9:ILE:HD12	6:AF:9:ILE:N	2.37	0.40
6:AF:46:ARG:HA	6:AF:46:ARG:CZ	2.52	0.40
6:AF:80:ALA:O	6:AF:83:PHE:CD1	2.74	0.40
6:AF:119:ARG:HD3	6:AF:120:GLU:N	2.37	0.40
6:AF:122:LYS:HE3	6:AF:192:LEU:CG	2.51	0.40
6:AF:132:VAL:HG22	6:AF:138:GLU:CD	2.46	0.40
7:AG:134:GLY:HA3	7:AG:156:ASP:HA	2.04	0.40
7:AG:134:GLY:CA	7:AG:156:ASP:HA	2.51	0.40
8:AH:23:ARG:NH1	8:AH:34:GLU:C	2.80	0.40
8:AH:87:LEU:HD23	8:AH:87:LEU:C	2.46	0.40
8:AH:156:ALA:O	8:AH:157:TYR:CD2	2.74	0.40
9:AI:143:GLN:C	33:Ag:141:UNK:CB	2.94	0.40
11:AK:75:TYR:CD1	11:AK:75:TYR:N	2.81	0.40
12:AL:9:GLU:CG	12:AL:81:ASP:O	2.70	0.40
13:AM:9:ASN:O	13:AM:9:ASN:OD1	2.39	0.40
13:AM:36:LYS:CE	13:AM:42:SER:CB	3.00	0.40
13:AM:146:VAL:HG12	13:AM:147:LEU:N	2.37	0.40
15:AO:63:ARG:NH1	15:AO:80:PHE:CB	2.85	0.40
15:AO:75:LEU:HA	15:AO:75:LEU:HD23	1.46	0.40
16:AP:35:ILE:HG13	16:AP:36:TYR:H	1.87	0.40
16:AP:54:LEU:O	16:AP:56:LEU:HD22	2.21	0.40
16:AP:105:ALA:O	16:AP:108:GLY:CA	2.70	0.40
17:AQ:2:ASN:O	17:AQ:3:ARG:C	2.64	0.40
17:AQ:19:LEU:O	17:AQ:20:PRO:O	2.38	0.40
17:AQ:35:LYS:CG	17:AQ:84:GLN:O	2.53	0.40
17:AQ:68:TYR:CD1	17:AQ:69:GLY:N	2.90	0.40
18:AR:40:PHE:CD2	19:AS:78:LYS:CE	3.03	0.40
18:AR:92:ARG:CA	18:AR:95:LEU:HG	2.48	0.40
19:AS:71:LEU:HA	19:AS:71:LEU:HD23	1.84	0.40
20:AT:52:GLU:O	20:AT:53:SER:C	2.65	0.40
21:AU:68:ARG:C	21:AU:69:TYR:CD1	2.99	0.40
21:AU:90:GLU:O	21:AU:91:ALA:C	2.64	0.40
22:AV:35:TYR:CD1	22:AV:35:TYR:N	2.87	0.40
23:AW:31:ARG:NH1	23:AW:31:ARG:CG	2.84	0.40
23:AW:43:GLU:O	23:AW:45:ASP:N	2.55	0.40
23:AW:71:VAL:HG13	23:AW:87:ASP:O	2.22	0.40
23:AW:77:ASP:HA	23:AW:84:GLU:CD	2.46	0.40
23:AW:81:ARG:O	23:AW:82:ARG:HG2	2.22	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:20:ARG:HB3	24:AX:21:LEU:H	1.63	0.40
28:Ab:35:GLU:OE2	28:Ab:51:TYR:CZ	2.74	0.40
28:Ab:46:CYS:O	28:Ab:48:GLU:N	2.41	0.40
30:Ad:13:ALA:O	30:Ad:16:HIS:O	2.39	0.40
31:Ae:51:ALA:C	31:Ae:54:GLU:OE1	2.65	0.40
34:BA:27:G:O2'	34:BA:28:G:H5'	2.22	0.40
34:BA:68:G:C4	34:BA:69:G:C8	3.09	0.40
34:BA:87:A:N7	34:BA:88:C:C2	2.89	0.40
34:BA:89:U:N3	34:BA:90:C:C5	2.90	0.40
34:BA:130:A:C4	34:BA:264:U:C1'	3.01	0.40
34:BA:160:A:N1	34:BA:346:G:O6	2.55	0.40
34:BA:186(A):C:N4	34:BA:191:G:N1	2.70	0.40
34:BA:250:A:H2	34:BA:274:A:C2	2.39	0.40
34:BA:386:C:N4	34:BA:387:U:C4	2.89	0.40
34:BA:390:C:O2'	34:BA:391:G:H5'	2.22	0.40
34:BA:393:A:OP2	49:BT:12:LYS:CE	2.70	0.40
34:BA:433:C:H6	34:BA:433:C:O5'	2.04	0.40
34:BA:444:C:H2'	34:BA:445:G:H8	1.86	0.40
34:BA:510:A:C8	34:BA:510:A:O5'	2.71	0.40
34:BA:574:A:C3'	34:BA:575:G:H5''	2.52	0.40
34:BA:675:A:C2'	34:BA:676:A:C8	2.99	0.40
34:BA:690:G:C6	34:BA:691:G:N3	2.90	0.40
34:BA:697:U:H3'	34:BA:698:G:H8	1.87	0.40
34:BA:725:G:H2'	34:BA:726:C:C6	2.56	0.40
34:BA:761:G:H4'	50:BU:103:GLY:N	2.37	0.40
34:BA:815:A:N6	34:BA:1529:G:C4	2.89	0.40
34:BA:818:G:O2'	34:BA:819:A:P	2.80	0.40
34:BA:818:G:HO2'	34:BA:819:A:P	2.41	0.40
34:BA:899:C:N3	34:BA:900:A:C2	2.90	0.40
34:BA:918:A:C2	34:BA:919:A:C4	3.10	0.40
34:BA:936:C:H2'	34:BA:937:A:H5'	1.94	0.40
34:BA:952:U:H2'	34:BA:953:G:O4'	2.22	0.40
34:BA:972:C:O2	34:BA:972:C:C2'	2.68	0.40
34:BA:979:C:OP2	34:BA:980:C:N4	2.54	0.40
34:BA:1014:A:N3	52:BW:34:TRP:CH2	2.90	0.40
34:BA:1056:U:O2	34:BA:1057:G:C8	2.75	0.40
34:BA:1121:U:O5'	34:BA:1121:U:H6	2.04	0.40
34:BA:1163:C:N4	34:BA:1174:G:N1	2.69	0.40
34:BA:1189:C:H6	34:BA:1189:C:OP2	2.05	0.40
34:BA:1308:U:C3'	34:BA:1309:G:P	2.99	0.40
34:BA:1347:G:H3'	42:BM:107:ARG:CA	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1363:A:H4'	34:BA:1364:U:O5'	2.21	0.40
34:BA:1516:G:C2	34:BA:1518:A:OP2	2.74	0.40
35:BF:44:LEU:HB2	35:BF:45:GLN:H	1.62	0.40
35:BF:118:LEU:O	35:BF:121:LEU:N	2.53	0.40
35:BF:179:LYS:HB3	41:BL:72:PRO:HB3	2.03	0.40
36:BG:172:ARG:C	36:BG:173:VAL:CG2	2.95	0.40
37:BH:36:ARG:HG2	37:BH:38:TYR:OH	2.21	0.40
37:BH:69:GLY:O	37:BH:70:ILE:HD13	2.22	0.40
37:BH:112:VAL:N	37:BH:116:GLN:OE1	2.42	0.40
37:BH:191:ARG:HD3	37:BH:192:GLU:HA	2.03	0.40
37:BH:196:LEU:O	37:BH:196:LEU:CD1	2.69	0.40
37:BH:209:ARG:HA	37:BH:209:ARG:HD3	1.94	0.40
39:BJ:27:GLN:O	39:BJ:28:ARG:C	2.63	0.40
39:BJ:49:ALA:CB	51:BV:80:PRO:CD	2.97	0.40
41:BL:46:LYS:HG3	41:BL:64:LYS:CG	2.51	0.40
41:BL:79:VAL:CB	41:BL:80:ILE:HD12	2.50	0.40
42:BM:117:HIS:C	42:BM:119:ALA:N	2.70	0.40
43:BN:34:VAL:HG13	43:BN:74:ILE:HG12	2.03	0.40
45:BP:6:THR:CB	45:BP:9:GLN:OE1	2.69	0.40
45:BP:27:LEU:HD23	45:BP:33:ARG:HD2	2.02	0.40
45:BP:32:PHE:HB3	45:BP:86:ARG:HA	2.02	0.40
46:BQ:40:ASN:C	46:BQ:42:ALA:H	2.30	0.40
48:BS:36:ILE:HG22	48:BS:37:ASN:N	2.36	0.40
51:BV:46:GLU:C	51:BV:48:GLY:H	2.30	0.40
52:BW:9:VAL:O	52:BW:16:LEU:HD13	2.22	0.40
52:BW:32:LYS:HB3	52:BW:50:ALA:CB	2.52	0.40
52:BW:50:ALA:HB1	52:BW:57:HIS:HB3	2.04	0.40
53:BX:57:ARG:HH12	53:BX:102:GLY:HA3	1.86	0.40
55:CA:18:LYS:HD3	57:CA:701:GCP:H3B2	2.03	0.40
55:CA:200:ASP:O	55:CA:202:ASP:N	2.53	0.40
55:CA:320:GLY:CA	55:CA:321:LYS:CG	2.99	0.40
55:CA:324:LYS:H	55:CA:324:LYS:HG2	1.54	0.40
55:CA:325:PHE:CD2	55:CA:330:GLN:CD	2.96	0.40
55:CA:512:LEU:HD12	55:CA:518:VAL:HG13	2.01	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AC	226/228 (99%)	155 (69%)	41 (18%)	30 (13%)	0	3
4	AD	270/272 (99%)	125 (46%)	59 (22%)	86 (32%)	0	0
5	AE	204/206 (99%)	117 (57%)	31 (15%)	56 (28%)	0	0
6	AF	206/208 (99%)	109 (53%)	46 (22%)	51 (25%)	0	1
7	AG	180/182 (99%)	79 (44%)	47 (26%)	54 (30%)	0	0
8	AH	172/174 (99%)	80 (46%)	46 (27%)	46 (27%)	0	0
9	AI	151/153 (99%)	89 (59%)	33 (22%)	29 (19%)	0	2
10	AJ	132/134 (98%)	56 (42%)	44 (33%)	32 (24%)	0	1
11	AK	137/139 (99%)	64 (47%)	28 (20%)	45 (33%)	0	0
12	AL	120/122 (98%)	59 (49%)	23 (19%)	38 (32%)	0	0
13	AM	143/145 (99%)	57 (40%)	36 (25%)	50 (35%)	0	0
14	AN	134/136 (98%)	49 (37%)	33 (25%)	52 (39%)	0	0
15	AO	115/117 (98%)	57 (50%)	39 (34%)	19 (16%)	0	3
16	AP	108/110 (98%)	48 (44%)	29 (27%)	31 (29%)	0	0
17	AQ	115/117 (98%)	52 (45%)	26 (23%)	37 (32%)	0	0
18	AR	115/117 (98%)	35 (30%)	50 (44%)	30 (26%)	0	1
19	AS	99/101 (98%)	52 (52%)	19 (19%)	28 (28%)	0	0
20	AT	108/110 (98%)	63 (58%)	24 (22%)	21 (19%)	0	2
21	AU	92/94 (98%)	57 (62%)	16 (17%)	19 (21%)	0	1
22	AV	108/110 (98%)	43 (40%)	32 (30%)	33 (31%)	0	0
23	AW	178/180 (99%)	96 (54%)	43 (24%)	39 (22%)	0	1
24	AX	83/85 (98%)	52 (63%)	21 (25%)	10 (12%)	0	5
25	AY	65/67 (97%)	36 (55%)	20 (31%)	9 (14%)	0	3
26	AZ	57/59 (97%)	34 (60%)	8 (14%)	15 (26%)	0	1
27	Aa	69/71 (97%)	23 (33%)	16 (23%)	30 (44%)	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
28	Ab	55/57 (96%)	14 (26%)	19 (34%)	22 (40%)	0	0
29	Ac	47/49 (96%)	14 (30%)	7 (15%)	26 (55%)	0	0
30	Ad	47/49 (96%)	20 (43%)	12 (26%)	15 (32%)	0	0
31	Ae	62/64 (97%)	23 (37%)	18 (29%)	21 (34%)	0	0
32	Af	35/37 (95%)	20 (57%)	5 (14%)	10 (29%)	0	0
35	BF	232/234 (99%)	114 (49%)	41 (18%)	77 (33%)	0	0
36	BG	204/206 (99%)	107 (52%)	46 (22%)	51 (25%)	0	1
37	BH	206/208 (99%)	95 (46%)	57 (28%)	54 (26%)	0	1
38	BI	148/150 (99%)	93 (63%)	38 (26%)	17 (12%)	0	5
39	BJ	99/101 (98%)	58 (59%)	19 (19%)	22 (22%)	0	1
40	BK	153/155 (99%)	73 (48%)	45 (29%)	35 (23%)	0	1
41	BL	136/138 (99%)	68 (50%)	35 (26%)	33 (24%)	0	1
42	BM	125/127 (98%)	62 (50%)	33 (26%)	30 (24%)	0	1
43	BN	96/98 (98%)	52 (54%)	20 (21%)	24 (25%)	0	1
44	BO	117/119 (98%)	65 (56%)	29 (25%)	23 (20%)	0	2
45	BP	122/124 (98%)	50 (41%)	30 (25%)	42 (34%)	0	0
46	BQ	112/114 (98%)	64 (57%)	29 (26%)	19 (17%)	0	2
47	BR	58/60 (97%)	24 (41%)	16 (28%)	18 (31%)	0	0
48	BS	86/88 (98%)	36 (42%)	35 (41%)	15 (17%)	0	2
49	BT	81/83 (98%)	42 (52%)	24 (30%)	15 (18%)	0	2
50	BU	102/104 (98%)	62 (61%)	23 (22%)	17 (17%)	0	3
51	BV	71/73 (97%)	26 (37%)	26 (37%)	19 (27%)	0	0
52	BW	78/80 (98%)	30 (38%)	25 (32%)	23 (30%)	0	0
53	BX	97/99 (98%)	38 (39%)	32 (33%)	27 (28%)	0	0
54	BY	22/24 (92%)	9 (41%)	6 (27%)	7 (32%)	0	0
55	CA	587/593 (99%)	313 (53%)	170 (29%)	104 (18%)	0	2
All	All	6565/6671 (98%)	3259 (50%)	1650 (25%)	1656 (25%)	0	1

All (1656) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AC	35	ALA
3	AC	39	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	54	SER
3	AC	61	THR
3	AC	66	HIS
3	AC	72	VAL
3	AC	217	THR
4	AD	6	PHE
4	AD	10	THR
4	AD	17	THR
4	AD	18	VAL
4	AD	30	GLU
4	AD	33	LEU
4	AD	35	LYS
4	AD	44	ASN
4	AD	53	PHE
4	AD	54	ARG
4	AD	58	HIS
4	AD	70	TRP
4	AD	72	LYS
4	AD	73	VAL
4	AD	81	ALA
4	AD	91	ARG
4	AD	106	ILE
4	AD	107	ALA
4	AD	108	PRO
4	AD	118	VAL
4	AD	121	PRO
4	AD	122	ASP
4	AD	125	ILE
4	AD	133	LEU
4	AD	134	ARG
4	AD	145	VAL
4	AD	153	ALA
4	AD	155	LEU
4	AD	157	ARG
4	AD	158	ALA
4	AD	160	GLY
4	AD	167	GLY
4	AD	178	PRO
4	AD	179	SER
4	AD	219	PRO
4	AD	224	ALA
4	AD	225	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	232	PRO
4	AD	239	ARG
4	AD	241	PRO
4	AD	244	ARG
4	AD	247	ALA
4	AD	249	PRO
4	AD	252	TRP
4	AD	258	LYS
4	AD	264	LYS
4	AD	268	ARG
4	AD	270	ILE
4	AD	271	ILE
5	AE	16	ARG
5	AE	38	THR
5	AE	42	ASP
5	AE	54	GLN
5	AE	68	ALA
5	AE	70	ALA
5	AE	74	PRO
5	AE	92	THR
5	AE	111	ARG
5	AE	117	MET
5	AE	122	PHE
5	AE	128	SER
5	AE	133	LYS
5	AE	134	ILE
5	AE	145	LYS
5	AE	149	ARG
5	AE	151	TYR
5	AE	157	ALA
5	AE	168	MET
5	AE	173	VAL
5	AE	180	ASN
5	AE	191	PRO
5	AE	202	LYS
6	AF	13	SER
6	AF	14	PRO
6	AF	30	PRO
6	AF	45	ARG
6	AF	52	LYS
6	AF	53	THR
6	AF	57	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	58	ALA
6	AF	62	ARG
6	AF	67	GLN
6	AF	68	LYS
6	AF	69	HIS
6	AF	75	HIS
6	AF	82	ILE
6	AF	84	VAL
6	AF	85	GLY
6	AF	89	VAL
6	AF	91	GLY
6	AF	99	TYR
6	AF	100	THR
6	AF	104	LYS
6	AF	132	VAL
6	AF	151	SER
6	AF	169	ASN
6	AF	172	TRP
6	AF	186	ILE
6	AF	196	LEU
7	AG	16	ARG
7	AG	18	GLU
7	AG	27	ASN
7	AG	32	PRO
7	AG	36	LYS
7	AG	42	GLY
7	AG	43	LEU
7	AG	51	ARG
7	AG	66	GLN
7	AG	68	PRO
7	AG	73	ALA
7	AG	76	SER
7	AG	78	SER
7	AG	86	MET
7	AG	104	GLU
7	AG	111	LEU
7	AG	114	ILE
7	AG	115	ARG
7	AG	116	ASP
7	AG	117	PHE
7	AG	123	ASN
7	AG	124	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AG	128	ARG
7	AG	131	TYR
7	AG	132	ASN
7	AG	133	LEU
7	AG	138	GLN
7	AG	140	ILE
7	AG	143	GLU
7	AG	144	ILE
7	AG	148	MET
7	AG	164	GLU
7	AG	172	LEU
7	AG	181	ARG
8	AH	6	ARG
8	AH	7	LEU
8	AH	12	PRO
8	AH	15	VAL
8	AH	20	ALA
8	AH	30	LYS
8	AH	56	SER
8	AH	99	VAL
8	AH	104	GLU
8	AH	107	VAL
8	AH	111	HIS
8	AH	127	GLU
8	AH	136	ILE
8	AH	152	ARG
8	AH	153	LYS
8	AH	155	SER
8	AH	157	TYR
8	AH	160	LYS
8	AH	164	TYR
8	AH	168	PRO
9	AI	7	VAL
9	AI	30	GLN
9	AI	52	PHE
9	AI	53	VAL
9	AI	57	THR
9	AI	58	LEU
9	AI	74	LEU
9	AI	77	PRO
9	AI	80	VAL
9	AI	90	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	AI	93	LEU
9	AI	107	VAL
10	AJ	20	ALA
10	AJ	29	GLN
10	AJ	34	ILE
10	AJ	50	ASP
10	AJ	51	ALA
10	AJ	68	VAL
10	AJ	71	THR
10	AJ	84	LEU
10	AJ	93	ARG
10	AJ	108	ALA
10	AJ	111	LYS
10	AJ	113	PRO
11	AK	3	THR
11	AK	4	TYR
11	AK	7	LYS
11	AK	9	VAL
11	AK	23	LEU
11	AK	31	ALA
11	AK	35	ARG
11	AK	43	THR
11	AK	46	VAL
11	AK	48	MET
11	AK	50	ASP
11	AK	58	ASP
11	AK	59	LYS
11	AK	66	LYS
11	AK	68	GLU
11	AK	76	SER
11	AK	79	PRO
11	AK	83	LYS
11	AK	127	ASP
11	AK	135	PRO
11	AK	136	GLU
12	AL	4	PRO
12	AL	11	ALA
12	AL	14	THR
12	AL	17	ARG
12	AL	26	LYS
12	AL	28	SER
12	AL	29	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AL	30	ALA
12	AL	46	ALA
12	AL	53	LYS
12	AL	63	VAL
12	AL	64	ARG
12	AL	66	LYS
12	AL	89	ASN
12	AL	93	PRO
12	AL	97	ARG
12	AL	101	PRO
12	AL	103	ALA
12	AL	105	GLU
12	AL	110	GLY
12	AL	111	PHE
12	AL	119	PRO
13	AM	8	PRO
13	AM	12	ALA
13	AM	14	LYS
13	AM	27	HIS
13	AM	29	LYS
13	AM	42	SER
13	AM	44	GLY
13	AM	47	ASP
13	AM	55	ARG
13	AM	56	SER
13	AM	57	THR
13	AM	58	THR
13	AM	64	LYS
13	AM	72	PRO
13	AM	88	LEU
13	AM	96	THR
13	AM	102	ARG
13	AM	106	LEU
13	AM	107	LYS
13	AM	122	PRO
13	AM	127	ALA
14	AN	11	LYS
14	AN	21	THR
14	AN	27	VAL
14	AN	29	PHE
14	AN	39	PRO
14	AN	40	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AN	58	PHE
14	AN	59	ARG
14	AN	66	ILE
14	AN	67	ARG
14	AN	68	ILE
14	AN	71	ASP
14	AN	77	LYS
14	AN	78	PRO
14	AN	80	GLU
14	AN	81	VAL
14	AN	111	GLU
14	AN	124	LYS
14	AN	125	LEU
14	AN	126	PRO
14	AN	132	VAL
14	AN	138	ASP
15	AO	4	LEU
15	AO	38	VAL
15	AO	57	ARG
15	AO	72	ASP
15	AO	76	VAL
15	AO	88	ARG
15	AO	89	ASP
16	AP	5	THR
16	AP	14	VAL
16	AP	28	VAL
16	AP	29	PHE
16	AP	30	ARG
16	AP	31	SER
16	AP	32	LEU
16	AP	35	ILE
16	AP	36	TYR
16	AP	48	LEU
16	AP	51	ALA
16	AP	54	LEU
16	AP	58	LEU
16	AP	61	ASN
17	AQ	2	ASN
17	AQ	3	ARG
17	AQ	5	ALA
17	AQ	19	LEU
17	AQ	20	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AQ	22	PHE
17	AQ	25	GLY
17	AQ	27	THR
17	AQ	39	ARG
17	AQ	45	PHE
17	AQ	58	ASN
17	AQ	83	ILE
17	AQ	98	LYS
17	AQ	100	TYR
17	AQ	103	ARG
17	AQ	105	LEU
17	AQ	106	SER
17	AQ	109	GLU
18	AR	3	ARG
18	AR	4	ALA
18	AR	8	VAL
18	AR	22	LYS
18	AR	31	SER
18	AR	32	PHE
18	AR	33	ARG
18	AR	62	ILE
18	AR	75	ASN
18	AR	94	ASN
19	AS	10	LYS
19	AS	11	GLN
19	AS	13	ARG
19	AS	15	GLU
19	AS	19	LYS
19	AS	22	VAL
19	AS	31	ALA
19	AS	32	THR
19	AS	39	LEU
19	AS	40	LEU
19	AS	46	VAL
19	AS	50	PRO
19	AS	57	VAL
19	AS	68	LYS
19	AS	69	LYS
19	AS	73	SER
19	AS	82	ARG
19	AS	100	ARG
20	AT	9	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AT	11	ARG
20	AT	12	ILE
20	AT	14	PRO
20	AT	25	ARG
20	AT	27	LYS
20	AT	41	LYS
20	AT	44	ALA
20	AT	58	ALA
20	AT	64	MET
20	AT	65	LEU
20	AT	73	ALA
20	AT	92	ARG
21	AU	4	ALA
21	AU	6	ASP
21	AU	63	LYS
21	AU	73	ARG
21	AU	89	ILE
21	AU	90	GLU
21	AU	95	LEU
22	AV	10	GLY
22	AV	15	VAL
22	AV	31	LEU
22	AV	40	GLU
22	AV	42	VAL
22	AV	45	VAL
22	AV	46	LYS
22	AV	47	LYS
22	AV	57	GLN
22	AV	58	GLY
22	AV	65	ALA
22	AV	71	LYS
22	AV	72	VAL
22	AV	77	PRO
22	AV	82	PRO
22	AV	108	THR
23	AW	41	LEU
23	AW	42	VAL
23	AW	57	ILE
23	AW	62	PRO
23	AW	78	LYS
23	AW	79	ARG
23	AW	83	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	AW	93	ASP
23	AW	94	GLU
23	AW	108	PRO
23	AW	109	ALA
23	AW	146	ILE
23	AW	155	LEU
23	AW	159	PRO
23	AW	161	VAL
23	AW	162	GLU
23	AW	165	VAL
24	AX	2	ALA
24	AX	29	GLN
24	AX	55	ARG
24	AX	84	LEU
25	AY	12	SER
25	AY	13	PRO
25	AY	15	GLU
25	AY	34	ALA
25	AY	35	SER
25	AY	42	ASN
26	AZ	9	VAL
26	AZ	11	SER
26	AZ	13	ILE
26	AZ	28	LEU
26	AZ	29	ARG
26	AZ	30	ARG
26	AZ	31	LEU
26	AZ	52	HIS
27	Aa	6	HIS
27	Aa	8	LYS
27	Aa	11	PRO
27	Aa	13	ARG
27	Aa	14	ILE
27	Aa	18	CYS
27	Aa	32	TYR
27	Aa	33	VAL
27	Aa	39	CYS
27	Aa	53	GLU
27	Aa	55	ARG
28	Ab	7	PRO
28	Ab	10	LYS
28	Ab	11	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	Ab	18	ALA
28	Ab	23	HIS
28	Ab	36	CYS
28	Ab	38	ALA
28	Ab	42	PRO
29	Ac	8	LYS
29	Ac	17	LYS
29	Ac	20	ASN
29	Ac	23	THR
29	Ac	26	ASN
29	Ac	27	LYS
29	Ac	29	ASN
29	Ac	30	THR
29	Ac	36	LEU
29	Ac	37	ARG
29	Ac	38	LYS
29	Ac	46	HIS
29	Ac	49	HIS
29	Ac	50	ARG
29	Ac	51	GLU
29	Ac	53	LYS
30	Ad	2	LYS
30	Ad	10	ARG
30	Ad	41	ARG
30	Ad	47	ARG
31	Ae	5	LYS
31	Ae	27	THR
31	Ae	30	ARG
31	Ae	36	LYS
31	Ae	37	SER
31	Ae	39	LYS
31	Ae	62	LEU
31	Ae	63	PRO
32	Af	5	ALA
32	Af	9	ARG
32	Af	10	ILE
32	Af	11	CYS
35	BF	8	LYS
35	BF	11	LEU
35	BF	13	ALA
35	BF	15	VAL
35	BF	16	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BF	17	PHE
35	BF	22	LYS
35	BF	26	PRO
35	BF	37	ASN
35	BF	42	ILE
35	BF	44	LEU
35	BF	45	GLN
35	BF	76	GLN
35	BF	77	ALA
35	BF	78	GLN
35	BF	97	TRP
35	BF	104	ASN
35	BF	109	SER
35	BF	122	PHE
35	BF	124	SER
35	BF	127	ILE
35	BF	131	PRO
35	BF	147	LYS
35	BF	153	ARG
35	BF	154	LEU
35	BF	155	LEU
35	BF	161	ALA
35	BF	165	VAL
35	BF	168	THR
35	BF	169	LYS
35	BF	171	ALA
35	BF	172	ILE
35	BF	181	PHE
35	BF	191	ASP
35	BF	194	PRO
35	BF	195	ASP
35	BF	200	ILE
35	BF	201	ILE
35	BF	204	ASN
35	BF	207	ALA
35	BF	211	ILE
35	BF	226	ARG
35	BF	230	VAL
35	BF	232	PRO
35	BF	236	TYR
36	BG	4	LYS
36	BG	12	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BG	14	ILE
36	BG	18	TRP
36	BG	24	ALA
36	BG	28	GLN
36	BG	39	ILE
36	BG	43	LEU
36	BG	52	LEU
36	BG	53	ALA
36	BG	64	VAL
36	BG	65	ALA
36	BG	79	ARG
36	BG	83	ARG
36	BG	84	ILE
36	BG	95	THR
36	BG	97	LYS
36	BG	98	ASN
36	BG	119	ARG
36	BG	129	ALA
36	BG	157	ILE
36	BG	160	ALA
36	BG	176	HIS
36	BG	177	THR
36	BG	179	ARG
36	BG	191	THR
36	BG	192	THR
37	BH	3	ARG
37	BH	17	VAL
37	BH	18	LYS
37	BH	21	LEU
37	BH	29	PRO
37	BH	30	LYS
37	BH	31	CYS
37	BH	48	ALA
37	BH	56	VAL
37	BH	71	SER
37	BH	86	LYS
37	BH	88	VAL
37	BH	99	SER
37	BH	109	GLY
37	BH	131	ARG
37	BH	142	PRO
37	BH	148	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BH	150	GLU
37	BH	151	LYS
37	BH	154	ASN
37	BH	166	LYS
37	BH	168	ARG
37	BH	170	VAL
37	BH	179	GLU
37	BH	191	ARG
37	BH	195	ALA
37	BH	198	VAL
37	BH	199	ASN
38	BI	12	LEU
38	BI	55	VAL
38	BI	75	THR
38	BI	128	PRO
38	BI	144	THR
39	BJ	11	ASN
39	BJ	16	GLN
39	BJ	27	GLN
39	BJ	72	VAL
39	BJ	81	ILE
39	BJ	82	ARG
39	BJ	84	ASN
39	BJ	85	VAL
39	BJ	95	GLU
39	BJ	97	PHE
40	BK	4	ARG
40	BK	8	GLU
40	BK	14	PRO
40	BK	17	VAL
40	BK	31	MET
40	BK	35	LYS
40	BK	37	ASN
40	BK	71	PRO
40	BK	91	VAL
40	BK	111	ARG
40	BK	134	ALA
40	BK	142	GLU
41	BL	6	ILE
41	BL	13	ILE
41	BL	29	SER
41	BL	30	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BL	63	LEU
41	BL	74	PRO
41	BL	75	ARG
41	BL	76	PRO
41	BL	77	GLU
41	BL	79	VAL
41	BL	103	VAL
41	BL	105	ARG
41	BL	115	SER
41	BL	121	ASP
41	BL	129	VAL
42	BM	29	ASN
42	BM	33	PHE
42	BM	44	VAL
42	BM	70	LYS
42	BM	98	PRO
42	BM	109	VAL
42	BM	116	LYS
42	BM	118	LYS
43	BN	34	VAL
43	BN	36	GLY
43	BN	39	PRO
43	BN	40	LEU
43	BN	55	LYS
43	BN	56	HIS
43	BN	60	ARG
43	BN	72	VAL
43	BN	79	ARG
43	BN	80	LYS
43	BN	90	LEU
44	BO	14	VAL
44	BO	15	ALA
44	BO	27	ASN
44	BO	39	PRO
44	BO	74	ALA
44	BO	78	GLN
44	BO	106	LYS
44	BO	113	PRO
44	BO	116	HIS
45	BP	6	THR
45	BP	7	ILE
45	BP	18	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BP	19	ARG
45	BP	22	SER
45	BP	28	LYS
45	BP	30	ALA
45	BP	46	LYS
45	BP	48	PRO
45	BP	51	ALA
45	BP	62	SER
45	BP	66	VAL
45	BP	83	VAL
45	BP	92	ASP
45	BP	101	VAL
45	BP	110	VAL
45	BP	116	SER
45	BP	127	GLU
46	BQ	12	ASN
46	BQ	47	ASP
46	BQ	48	LEU
46	BQ	102	ARG
46	BQ	107	ALA
47	BR	12	ARG
47	BR	18	VAL
47	BR	29	ARG
47	BR	31	ARG
47	BR	34	TYR
47	BR	36	PHE
47	BR	44	LEU
47	BR	54	PRO
47	BR	55	GLY
48	BS	3	ILE
48	BS	16	ALA
49	BT	11	SER
49	BT	15	PRO
49	BT	24	ALA
49	BT	27	LYS
49	BT	61	SER
50	BU	3	LYS
50	BU	4	LYS
50	BU	15	MET
50	BU	34	LYS
50	BU	48	GLU
50	BU	50	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	BU	81	ARG
50	BU	104	LYS
51	BV	42	ARG
51	BV	49	LYS
51	BV	52	PRO
51	BV	59	SER
51	BV	75	ILE
51	BV	79	LEU
51	BV	82	THR
51	BV	87	ARG
52	BW	9	VAL
52	BW	21	GLU
52	BW	28	LYS
52	BW	32	LYS
52	BW	40	ILE
52	BW	42	PRO
52	BW	43	GLU
52	BW	64	GLU
52	BW	70	LYS
52	BW	79	THR
53	BX	12	ALA
53	BX	99	LEU
53	BX	105	SER
54	BY	6	ARG
54	BY	9	ARG
55	CA	11	ILE
55	CA	18	LYS
55	CA	28	GLN
55	CA	42	VAL
55	CA	56	ILE
55	CA	58	ALA
55	CA	71	ASN
55	CA	103	ASP
55	CA	133	PRO
55	CA	155	ASP
55	CA	160	PHE
55	CA	183	MET
55	CA	209	ILE
55	CA	218	VAL
55	CA	243	GLU
55	CA	307	VAL
55	CA	316	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	CA	395	ARG
55	CA	424	GLY
55	CA	437	VAL
55	CA	442	VAL
55	CA	475	VAL
55	CA	476	ARG
55	CA	477	PRO
55	CA	537	CYS
55	CA	583	THR
55	CA	603	ALA
3	AC	22	ILE
3	AC	67	GLY
3	AC	80	GLY
3	AC	132	GLY
3	AC	140	PRO
3	AC	161	ILE
3	AC	164	ARG
4	AD	52	ARG
4	AD	62	TYR
4	AD	110	GLY
4	AD	111	LEU
4	AD	123	ALA
4	AD	149	PRO
4	AD	152	GLY
4	AD	189	CYS
4	AD	196	VAL
4	AD	204	ILE
4	AD	207	GLY
4	AD	217	ARG
4	AD	243	GLY
4	AD	262	ARG
4	AD	263	ARG
4	AD	266	SER
5	AE	22	PRO
5	AE	44	TYR
5	AE	72	VAL
5	AE	93	VAL
5	AE	95	ILE
5	AE	115	GLY
5	AE	118	LYS
5	AE	121	ASN
5	AE	124	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	139	GLY
5	AE	155	LYS
5	AE	178	GLU
5	AE	187	ALA
6	AF	54	ARG
6	AF	81	PRO
6	AF	98	SER
6	AF	102	PRO
6	AF	126	VAL
6	AF	136	THR
6	AF	158	THR
6	AF	167	ALA
6	AF	177	ALA
6	AF	184	TYR
6	AF	190	GLU
7	AG	20	ILE
7	AG	24	GLY
7	AG	61	ALA
7	AG	88	ILE
7	AG	151	ALA
7	AG	154	GLY
7	AG	163	ALA
8	AH	31	GLY
8	AH	33	LEU
8	AH	42	ARG
8	AH	57	ASP
8	AH	105	LEU
8	AH	110	SER
8	AH	118	PRO
8	AH	120	GLY
8	AH	151	ILE
8	AH	156	ALA
8	AH	169	VAL
9	AI	23	SER
9	AI	55	LYS
9	AI	73	GLY
9	AI	91	LYS
9	AI	116	ILE
9	AI	136	ALA
9	AI	154	GLY
10	AJ	66	THR
10	AJ	69	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AJ	74	ALA
10	AJ	86	LYS
10	AJ	90	LYS
11	AK	19	GLU
11	AK	30	ILE
11	AK	34	LEU
11	AK	38	HIS
11	AK	40	PRO
11	AK	47	ALA
11	AK	63	THR
11	AK	67	LEU
11	AK	88	GLU
11	AK	92	ALA
11	AK	105	GLY
11	AK	110	GLY
11	AK	114	ARG
12	AL	49	ARG
12	AL	50	GLY
12	AL	52	VAL
12	AL	88	ASN
12	AL	90	GLN
12	AL	102	VAL
12	AL	104	ARG
12	AL	121	VAL
13	AM	7	ARG
13	AM	11	GLY
13	AM	23	PRO
13	AM	32	THR
13	AM	34	GLY
13	AM	39	LYS
13	AM	43	GLY
13	AM	67	MET
13	AM	84	ASN
13	AM	87	ASP
13	AM	92	GLU
14	AN	12	GLN
14	AN	45	GLN
14	AN	88	GLY
14	AN	94	VAL
14	AN	100	GLY
14	AN	107	ALA
14	AN	127	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AN	136	ALA
14	AN	137	TYR
15	AO	8	ARG
15	AO	71	GLN
15	AO	86	ARG
15	AO	94	TYR
16	AP	11	LYS
16	AP	23	ARG
16	AP	33	LYS
16	AP	43	GLU
16	AP	67	ARG
16	AP	78	LEU
16	AP	82	ILE
16	AP	97	ARG
17	AQ	24	PRO
17	AQ	30	VAL
17	AQ	36	GLU
17	AQ	41	ARG
17	AQ	82	LEU
17	AQ	99	LEU
17	AQ	104	ASN
17	AQ	114	LEU
18	AR	26	GLY
18	AR	27	LEU
18	AR	47	TYR
18	AR	53	ARG
18	AR	78	THR
18	AR	88	ILE
18	AR	90	VAL
18	AR	93	LYS
18	AR	110	VAL
19	AS	8	GLY
19	AS	14	VAL
19	AS	18	LEU
19	AS	45	THR
19	AS	72	VAL
19	AS	81	TYR
20	AT	15	ARG
20	AT	26	GLY
20	AT	30	GLU
20	AT	75	TYR
20	AT	90	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AU	8	ILE
21	AU	15	GLU
21	AU	33	LYS
21	AU	49	VAL
21	AU	53	LYS
21	AU	67	GLY
21	AU	74	PRO
21	AU	85	PRO
22	AV	21	LYS
22	AV	29	GLU
22	AV	33	LYS
22	AV	34	LYS
22	AV	48	ALA
22	AV	66	PRO
22	AV	83	THR
22	AV	86	ARG
22	AV	95	LYS
22	AV	106	LEU
23	AW	11	GLU
23	AW	31	ARG
23	AW	50	GLN
23	AW	54	HIS
23	AW	123	ASP
23	AW	169	GLU
23	AW	170	THR
24	AX	21	LEU
24	AX	67	VAL
25	AY	17	GLU
25	AY	66	ASN
26	AZ	39	ASP
26	AZ	53	LEU
27	Aa	3	GLU
27	Aa	7	PRO
27	Aa	21	VAL
27	Aa	48	ARG
27	Aa	50	VAL
27	Aa	51	ASP
27	Aa	56	VAL
28	Ab	20	ARG
29	Ac	18	ARG
29	Ac	28	ARG
29	Ac	31	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	Ac	32	ASN
29	Ac	48	VAL
29	Ac	52	VAL
30	Ad	3	ARG
30	Ad	5	TRP
30	Ad	14	LYS
30	Ad	19	ARG
31	Ae	32	LEU
31	Ae	34	TRP
31	Ae	52	LYS
32	Af	3	VAL
32	Af	7	VAL
32	Af	33	LYS
35	BF	9	GLU
35	BF	29	ALA
35	BF	73	THR
35	BF	102	LEU
35	BF	151	GLY
35	BF	178	ARG
35	BF	190	THR
35	BF	227	GLY
36	BG	27	LYS
36	BG	30	ARG
36	BG	66	VAL
36	BG	74	GLY
36	BG	101	LEU
36	BG	158	GLY
36	BG	206	GLU
37	BH	4	TYR
37	BH	67	ILE
37	BH	73	ARG
37	BH	101	LEU
37	BH	107	ARG
37	BH	138	TYR
37	BH	139	ARG
37	BH	165	MET
37	BH	181	MET
37	BH	200	GLU
37	BH	208	SER
38	BI	37	ARG
38	BI	98	THR
38	BI	102	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BI	104	ALA
39	BJ	13	ASN
39	BJ	14	LEU
39	BJ	51	PRO
39	BJ	83	ASP
40	BK	23	VAL
40	BK	56	GLN
40	BK	72	ARG
40	BK	92	SER
40	BK	94	ARG
40	BK	112	PRO
40	BK	113	GLU
40	BK	146	GLU
40	BK	153	HIS
41	BL	37	ARG
41	BL	78	GLN
41	BL	97	VAL
41	BL	102	ARG
41	BL	108	GLY
41	BL	123	GLU
41	BL	134	ILE
42	BM	39	GLY
42	BM	68	GLY
42	BM	71	SER
42	BM	94	ALA
42	BM	104	ARG
42	BM	114	TYR
42	BM	120	ARG
42	BM	125	TYR
43	BN	31	GLY
43	BN	58	ASP
43	BN	61	GLU
43	BN	78	ASN
43	BN	94	VAL
44	BO	13	GLN
44	BO	55	LYS
44	BO	76	GLY
44	BO	102	GLY
44	BO	104	GLN
44	BO	115	PRO
45	BP	31	PRO
45	BP	41	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BP	42	THR
45	BP	76	ASN
45	BP	87	GLY
45	BP	94	PRO
45	BP	126	LYS
46	BQ	46	LYS
46	BQ	64	TRP
46	BQ	65	LYS
46	BQ	86	CYS
47	BR	5	ALA
47	BR	9	LYS
47	BR	17	LYS
47	BR	22	THR
47	BR	28	GLY
47	BR	56	VAL
48	BS	6	GLU
48	BS	46	HIS
48	BS	76	GLU
48	BS	83	GLU
48	BS	87	ILE
49	BT	30	GLY
49	BT	43	LYS
49	BT	82	GLN
50	BU	16	GLN
50	BU	33	GLY
50	BU	96	GLN
50	BU	98	LEU
51	BV	28	GLU
51	BV	34	TYR
51	BV	37	VAL
51	BV	38	GLU
51	BV	54	ARG
51	BV	64	ARG
52	BW	13	ASP
52	BW	20	LEU
52	BW	36	ARG
52	BW	65	ASN
52	BW	71	LEU
53	BX	49	ALA
53	BX	56	MET
53	BX	68	LYS
53	BX	101	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
53	BX	102	GLY
53	BX	103	GLY
54	BY	7	ARG
55	CA	13	HIS
55	CA	54	ILE
55	CA	62	ALA
55	CA	91	MET
55	CA	156	GLU
55	CA	185	PRO
55	CA	244	GLY
55	CA	253	LYS
55	CA	284	ILE
55	CA	291	THR
55	CA	294	VAL
55	CA	321	LYS
55	CA	392	ILE
55	CA	462	THR
55	CA	468	THR
55	CA	485	ASN
55	CA	516	ALA
3	AC	59	ARG
3	AC	69	GLY
3	AC	78	ALA
3	AC	90	GLY
3	AC	167	LYS
3	AC	226	PRO
4	AD	56	GLY
4	AD	86	PRO
4	AD	226	MET
4	AD	227	ASN
4	AD	233	HIS
4	AD	245	PRO
4	AD	246	PRO
4	AD	259	THR
5	AE	51	PHE
5	AE	67	PHE
5	AE	75	VAL
5	AE	126	PRO
6	AF	21	ALA
6	AF	24	LEU
6	AF	72	ARG
6	AF	159	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AG	30	GLU
7	AG	57	ALA
7	AG	81	LYS
7	AG	106	LEU
7	AG	125	PHE
7	AG	167	GLU
7	AG	178	PHE
8	AH	67	LEU
8	AH	94	TYR
8	AH	114	VAL
9	AI	49	ALA
9	AI	104	ILE
10	AJ	22	PRO
10	AJ	32	ALA
10	AJ	117	THR
11	AK	18	ALA
11	AK	29	LYS
11	AK	109	LYS
11	AK	138	LEU
12	AL	10	VAL
12	AL	59	LYS
12	AL	91	LEU
12	AL	92	GLU
12	AL	109	LYS
13	AM	16	ARG
13	AM	26	GLY
13	AM	37	GLY
13	AM	81	GLN
14	AN	26	TYR
14	AN	31	ASP
14	AN	46	GLN
14	AN	73	PRO
14	AN	115	MET
15	AO	5	LYS
15	AO	49	ASP
15	AO	58	GLY
15	AO	100	LEU
16	AP	10	ARG
16	AP	60	GLY
16	AP	66	ALA
16	AP	72	ALA
16	AP	102	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AQ	4	GLY
17	AQ	28	VAL
17	AQ	102	ILE
18	AR	6	THR
18	AR	96	ALA
18	AR	97	ASP
19	AS	29	PRO
20	AT	66	GLU
20	AT	67	ASP
21	AU	48	LYS
22	AV	16	ALA
22	AV	74	PRO
23	AW	64	GLY
23	AW	80	ARG
23	AW	82	ARG
23	AW	95	PRO
23	AW	131	ARG
23	AW	145	GLU
23	AW	160	GLY
24	AX	56	ASP
24	AX	83	PRO
27	Aa	27	THR
27	Aa	58	ARG
27	Aa	61	ARG
28	Ab	5	PRO
28	Ab	9	LYS
28	Ab	14	ALA
28	Ab	47	PRO
28	Ab	59	GLU
29	Ac	25	LYS
29	Ac	34	LEU
30	Ad	4	THR
30	Ad	11	LYS
30	Ad	31	LEU
30	Ad	39	ARG
30	Ad	40	TRP
30	Ad	46	VAL
31	Ae	13	ARG
31	Ae	18	ALA
31	Ae	41	ILE
31	Ae	53	PRO
31	Ae	57	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	Ae	61	LEU
35	BF	88	ALA
35	BF	96	ARG
35	BF	110	GLN
35	BF	141	GLU
35	BF	157	ARG
35	BF	180	LEU
35	BF	183	PRO
35	BF	237	ALA
36	BG	7	PRO
36	BG	49	SER
36	BG	62	ASP
36	BG	81	GLY
36	BG	127	ARG
36	BG	139	GLN
36	BG	145	GLY
36	BG	178	LEU
36	BG	181	ASN
37	BH	7	PRO
37	BH	40	PRO
37	BH	51	PRO
37	BH	53	ASP
37	BH	153	ARG
38	BI	26	PHE
38	BI	96	PRO
38	BI	112	LEU
39	BJ	12	PRO
39	BJ	15	ASP
39	BJ	69	GLU
40	BK	6	ARG
40	BK	38	LEU
40	BK	103	TRP
40	BK	121	ALA
41	BL	24	THR
41	BL	39	LEU
41	BL	41	ARG
41	BL	44	PHE
41	BL	69	ARG
41	BL	73	ASP
41	BL	90	GLY
42	BM	43	ALA
42	BM	47	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BM	102	LEU
42	BM	103	THR
42	BM	105	ASP
42	BM	117	HIS
43	BN	77	PRO
44	BO	37	GLY
44	BO	53	SER
44	BO	93	GLN
44	BO	123	LYS
45	BP	23	LYS
45	BP	26	ALA
45	BP	80	HIS
45	BP	100	ILE
45	BP	105	TYR
45	BP	106	ASP
45	BP	107	ALA
45	BP	121	GLY
45	BP	122	THR
46	BQ	11	ARG
46	BQ	14	ARG
46	BQ	38	GLY
46	BQ	67	GLU
46	BQ	72	ALA
46	BQ	96	LEU
48	BS	19	PRO
48	BS	88	ARG
49	BT	28	ARG
49	BT	44	THR
49	BT	54	GLU
49	BT	66	PRO
50	BU	14	LYS
51	BV	71	LYS
51	BV	72	ARG
51	BV	81	PHE
52	BW	25	LYS
52	BW	30	LEU
52	BW	52	TYR
53	BX	15	ARG
53	BX	24	LEU
53	BX	32	ALA
53	BX	50	GLU
53	BX	57	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
53	BX	59	ALA
53	BX	76	ALA
53	BX	84	LEU
55	CA	37	GLU
55	CA	64	ILE
55	CA	179	MET
55	CA	181	GLU
55	CA	182	ASP
55	CA	212	LEU
55	CA	242	SER
55	CA	267	LEU
55	CA	409	GLU
55	CA	428	ASN
55	CA	471	HIS
55	CA	486	GLY
55	CA	535	VAL
55	CA	539	THR
3	AC	56	GLN
3	AC	71	GLN
3	AC	148	ASN
4	AD	37	LEU
4	AD	209	ALA
4	AD	248	SER
4	AD	257	LEU
5	AE	28	ALA
5	AE	32	PRO
5	AE	53	PRO
5	AE	89	ASP
5	AE	94	GLU
5	AE	119	ARG
5	AE	135	HIS
5	AE	143	ASN
5	AE	165	VAL
6	AF	64	ILE
6	AF	111	ALA
6	AF	137	LYS
6	AF	168	ARG
6	AF	183	VAL
7	AG	153	ARG
7	AG	166	ASP
8	AH	58	GLU
8	AH	138	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	154	PRO
9	AI	21	GLN
9	AI	129	PRO
9	AI	144	ALA
10	AJ	28	GLY
10	AJ	95	LYS
11	AK	28	THR
11	AK	90	MET
11	AK	108	PRO
12	AL	106	LEU
13	AM	9	ASN
13	AM	15	ARG
13	AM	25	SER
13	AM	35	HIS
13	AM	63	PRO
13	AM	89	ALA
13	AM	108	LYS
14	AN	22	LYS
14	AN	37	LEU
14	AN	79	LEU
14	AN	84	GLY
14	AN	89	ASN
14	AN	98	LYS
15	AO	12	ARG
15	AO	42	LYS
16	AP	59	LYS
16	AP	80	LEU
16	AP	89	ARG
17	AQ	9	LEU
17	AQ	77	PRO
17	AQ	96	ARG
17	AQ	110	ILE
17	AQ	111	ARG
17	AQ	112	ARG
18	AR	41	ALA
18	AR	60	LEU
18	AR	72	HIS
18	AR	111	GLU
19	AS	2	PHE
21	AU	32	PRO
22	AV	85	VAL
23	AW	47	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	AW	113	ALA
25	AY	36	ILE
26	AZ	42	ALA
27	Aa	26	SER
27	Aa	41	PRO
27	Aa	52	THR
28	Ab	24	ALA
28	Ab	48	GLU
28	Ab	56	LYS
28	Ab	58	LEU
29	Ac	40	CYS
29	Ac	47	THR
30	Ad	35	ARG
32	Af	4	ARG
32	Af	12	ASP
32	Af	29	ASN
35	BF	74	LYS
35	BF	91	PRO
35	BF	98	LEU
35	BF	150	SER
35	BF	158	LEU
35	BF	167	PRO
35	BF	174	VAL
35	BF	193	ASP
35	BF	229	VAL
36	BG	3	ASN
36	BG	16	ARG
36	BG	109	PRO
37	BH	36	ARG
37	BH	147	ALA
37	BH	196	LEU
38	BI	53	LEU
38	BI	153	LYS
39	BJ	17	SER
40	BK	32	ARG
40	BK	93	PRO
40	BK	97	GLN
40	BK	131	LYS
40	BK	155	ARG
41	BL	71	GLY
42	BM	55	ALA
42	BM	95	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BM	110	GLU
42	BM	126	SER
43	BN	30	SER
43	BN	53	PRO
43	BN	54	PHE
44	BO	118	GLY
45	BP	16	GLU
45	BP	17	LYS
45	BP	70	ILE
46	BQ	5	ALA
47	BR	16	PHE
48	BS	5	LYS
48	BS	33	THR
48	BS	44	LYS
49	BT	57	ARG
49	BT	64	ALA
50	BU	6	LEU
50	BU	53	LEU
52	BW	76	PRO
53	BX	58	LYS
53	BX	61	SER
53	BX	78	ALA
53	BX	97	ALA
54	BY	8	THR
54	BY	24	ARG
55	CA	20	THR
55	CA	24	LYS
55	CA	51	GLU
55	CA	84	GLU
55	CA	134	GLY
55	CA	137	PRO
55	CA	176	HIS
55	CA	216	SER
55	CA	269	GLU
55	CA	295	GLU
55	CA	427	LYS
55	CA	434	LYS
55	CA	484	GLN
55	CA	518	VAL
55	CA	592	LEU
3	AC	20	TYR
3	AC	84	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	117	PRO
3	AC	200	LYS
4	AD	88	ARG
4	AD	208	LYS
4	AD	210	GLY
4	AD	231	HIS
5	AE	8	LYS
5	AE	58	ARG
5	AE	129	HIS
5	AE	179	GLU
6	AF	178	PRO
6	AF	182	ASN
6	AF	185	ASP
7	AG	7	LEU
7	AG	113	ARG
7	AG	135	LEU
8	AH	75	ALA
8	AH	175	LYS
9	AI	51	LEU
9	AI	120	LYS
9	AI	128	LEU
9	AI	130	THR
10	AJ	12	LEU
10	AJ	100	THR
11	AK	78	TYR
11	AK	87	LEU
11	AK	112	LEU
12	AL	67	LYS
13	AM	19	VAL
13	AM	31	ALA
13	AM	120	ALA
13	AM	131	SER
14	AN	47	ILE
14	AN	62	GLY
14	AN	119	ARG
15	AO	74	LYS
17	AQ	13	ARG
18	AR	9	VAL
19	AS	66	ARG
21	AU	24	GLY
22	AV	17	SER
23	AW	85	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	AW	168	GLU
26	AZ	17	LYS
26	AZ	23	LEU
27	Aa	24	THR
28	Ab	51	TYR
35	BF	75	LYS
36	BG	146	ALA
36	BG	174	PRO
38	BI	95	ALA
38	BI	113	ALA
39	BJ	36	ARG
40	BK	122	HIS
41	BL	65	TYR
41	BL	104	ARG
42	BM	52	ALA
42	BM	107	ARG
43	BN	73	ASP
45	BP	111	LYS
45	BP	123	LYS
46	BQ	45	VAL
47	BR	13	THR
48	BS	29	VAL
49	BT	36	ILE
51	BV	19	LYS
52	BW	11	VAL
52	BW	29	ARG
52	BW	67	VAL
52	BW	73	GLU
53	BX	25	ARG
53	BX	60	GLU
54	BY	10	ARG
54	BY	22	ARG
55	CA	25	LEU
55	CA	29	SER
55	CA	35	ARG
55	CA	69	ARG
55	CA	118	ALA
55	CA	157	GLN
55	CA	201	LEU
55	CA	223	ILE
55	CA	339	LEU
55	CA	398	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	CA	407	VAL
55	CA	467	SER
55	CA	469	PHE
55	CA	554	ALA
3	AC	49	ILE
4	AD	83	GLU
4	AD	238	GLY
4	AD	254	THR
6	AF	134	GLY
7	AG	44	GLY
8	AH	125	VAL
8	AH	131	VAL
8	AH	173	PRO
10	AJ	52	ILE
10	AJ	89	HIS
10	AJ	91	PRO
12	AL	115	VAL
14	AN	28	ALA
14	AN	91	GLU
15	AO	61	HIS
17	AQ	80	SER
18	AR	7	GLY
27	Aa	22	ILE
27	Aa	29	PRO
28	Ab	27	PRO
28	Ab	31	VAL
28	Ab	49	CYS
31	Ae	8	LYS
31	Ae	14	VAL
31	Ae	20	GLY
31	Ae	33	ASN
35	BF	20	GLU
35	BF	118	LEU
35	BF	176	GLU
36	BG	87	LEU
37	BH	92	VAL
37	BH	94	LEU
37	BH	117	ALA
37	BH	129	ASN
38	BI	142	LEU
39	BJ	37	VAL
40	BK	18	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BK	50	ILE
40	BK	96	GLN
40	BK	130	GLY
41	BL	80	ILE
42	BM	57	GLY
43	BN	37	PRO
43	BN	41	PRO
44	BO	34	ASP
45	BP	90	VAL
50	BU	17	LYS
50	BU	80	GLY
53	BX	20	LEU
53	BX	67	ALA
55	CA	41	ARG
55	CA	66	TRP
55	CA	184	THR
55	CA	198	ASP
55	CA	251	VAL
55	CA	305	PRO
3	AC	41	VAL
4	AD	127	VAL
9	AI	31	GLY
10	AJ	19	PRO
10	AJ	96	VAL
13	AM	53	GLY
14	AN	19	GLY
14	AN	61	GLY
18	AR	87	GLY
18	AR	105	VAL
22	AV	24	VAL
23	AW	141	VAL
26	AZ	43	ILE
35	BF	130	ARG
36	BG	70	VAL
44	BO	49	GLY
46	BQ	60	VAL
47	BR	7	ILE
48	BS	82	ILE
55	CA	92	VAL
55	CA	435	GLY
5	AE	71	GLY
5	AE	116	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	161	GLY
8	AH	76	VAL
10	AJ	49	GLY
11	AK	44	PRO
13	AM	97	PRO
14	AN	99	PRO
21	AU	43	VAL
24	AX	8	GLY
24	AX	73	GLY
26	AZ	45	GLY
37	BH	128	VAL
37	BH	143	GLY
39	BJ	26	ILE
46	BQ	95	GLY
48	BS	45	VAL
51	BV	51	LEU
53	BX	100	ILE
55	CA	76	PRO
55	CA	222	GLY
55	CA	326	VAL
55	CA	385	PRO
4	AD	142	VAL
8	AH	55	PRO
8	AH	126	PRO
14	AN	106	VAL
23	AW	167	PRO
36	BG	197	GLY
37	BH	136	PRO
45	BP	104	VAL
55	CA	83	GLY
55	CA	450	GLY
55	CA	480	VAL
3	AC	14	VAL
8	AH	115	VAL
10	AJ	59	ILE
10	AJ	112	MET
14	AN	52	VAL
16	AP	69	VAL
19	AS	90	PRO
22	AV	44	ILE
23	AW	129	SER
23	AW	177	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	Aa	5	ILE
27	Aa	28	LYS
27	Aa	54	GLY
35	BF	239	VAL
39	BJ	65	VAL
43	BN	91	PRO
45	BP	96	VAL
53	BX	41	ILE
55	CA	304	GLU
55	CA	320	GLY
13	AM	126	VAL
20	AT	80	PRO
22	AV	18	GLY
35	BF	182	ILE
42	BM	90	PRO
44	BO	48	ILE

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	
3	AC	180/180 (100%)	147 (82%)	33 (18%)	2	10
4	AD	215/215 (100%)	150 (70%)	65 (30%)	0	3
5	AE	166/166 (100%)	102 (61%)	64 (39%)	0	1
6	AF	164/164 (100%)	103 (63%)	61 (37%)	0	1
7	AG	156/156 (100%)	111 (71%)	45 (29%)	0	3
8	AH	143/143 (100%)	101 (71%)	42 (29%)	0	3
10	AJ	101/101 (100%)	68 (67%)	33 (33%)	0	2
11	AK	118/118 (100%)	73 (62%)	45 (38%)	0	1
12	AL	100/100 (100%)	62 (62%)	38 (38%)	0	1
13	AM	111/111 (100%)	74 (67%)	37 (33%)	0	2
14	AN	106/106 (100%)	65 (61%)	41 (39%)	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	AO	100/100 (100%)	70 (70%)	30 (30%)	0	3
16	AP	87/87 (100%)	63 (72%)	24 (28%)	0	3
17	AQ	105/105 (100%)	67 (64%)	38 (36%)	0	1
18	AR	93/93 (100%)	64 (69%)	29 (31%)	0	2
19	AS	82/82 (100%)	58 (71%)	24 (29%)	0	3
20	AT	90/90 (100%)	62 (69%)	28 (31%)	0	2
21	AU	76/76 (100%)	54 (71%)	22 (29%)	0	3
22	AV	91/91 (100%)	72 (79%)	19 (21%)	1	7
23	AW	159/159 (100%)	116 (73%)	43 (27%)	0	3
24	AX	67/67 (100%)	49 (73%)	18 (27%)	0	3
25	AY	62/62 (100%)	44 (71%)	18 (29%)	0	3
26	AZ	51/51 (100%)	36 (71%)	15 (29%)	0	3
27	Aa	63/63 (100%)	43 (68%)	20 (32%)	0	2
28	Ab	50/50 (100%)	33 (66%)	17 (34%)	0	2
29	Ac	48/48 (100%)	31 (65%)	17 (35%)	0	1
30	Ad	42/42 (100%)	30 (71%)	12 (29%)	0	3
31	Ae	54/54 (100%)	39 (72%)	15 (28%)	0	3
32	Af	34/34 (100%)	29 (85%)	5 (15%)	3	14
35	BF	202/202 (100%)	133 (66%)	69 (34%)	0	2
36	BG	160/160 (100%)	121 (76%)	39 (24%)	1	5
37	BH	180/180 (100%)	129 (72%)	51 (28%)	0	3
38	BI	115/115 (100%)	76 (66%)	39 (34%)	0	2
39	BJ	90/90 (100%)	62 (69%)	28 (31%)	0	2
40	BK	126/126 (100%)	93 (74%)	33 (26%)	0	4
41	BL	119/119 (100%)	85 (71%)	34 (29%)	0	3
42	BM	98/98 (100%)	74 (76%)	24 (24%)	1	4
43	BN	88/88 (100%)	67 (76%)	21 (24%)	1	5
44	BO	90/90 (100%)	75 (83%)	15 (17%)	2	11
45	BP	104/104 (100%)	79 (76%)	25 (24%)	1	5
46	BQ	92/92 (100%)	66 (72%)	26 (28%)	0	3
47	BR	49/49 (100%)	37 (76%)	12 (24%)	1	4

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
48	BS	79/79 (100%)	62 (78%)	17 (22%)	1	6
49	BT	72/72 (100%)	47 (65%)	25 (35%)	0	2
50	BU	96/96 (100%)	69 (72%)	27 (28%)	0	3
51	BV	64/64 (100%)	51 (80%)	13 (20%)	1	8
52	BW	71/71 (100%)	53 (75%)	18 (25%)	0	4
53	BX	76/76 (100%)	59 (78%)	17 (22%)	1	6
54	BY	19/19 (100%)	17 (90%)	2 (10%)	6	22
55	CA	479/507 (94%)	343 (72%)	136 (28%)	0	3
All	All	5383/5411 (100%)	3814 (71%)	1569 (29%)	1	3

All (1569) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AC	6	ARG
3	AC	15	ASP
3	AC	20	TYR
3	AC	27	HIS
3	AC	46	LYS
3	AC	58	VAL
3	AC	59	ARG
3	AC	70	LYS
3	AC	81	GLU
3	AC	83	ILE
3	AC	92	ASP
3	AC	99	ILE
3	AC	101	GLN
3	AC	102	LYS
3	AC	108	MET
3	AC	125	SER
3	AC	130	ILE
3	AC	137	LEU
3	AC	144	THR
3	AC	155	GLU
3	AC	160	ARG
3	AC	161	ILE
3	AC	163	PHE
3	AC	164	ARG
3	AC	166	ASP
3	AC	180	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	189	ILE
3	AC	190	ARG
3	AC	202	GLU
3	AC	209	LEU
3	AC	212	VAL
3	AC	213	TYR
3	AC	222	VAL
4	AD	17	THR
4	AD	23	GLU
4	AD	31	LYS
4	AD	34	VAL
4	AD	37	LEU
4	AD	39	LYS
4	AD	44	ASN
4	AD	46	GLN
4	AD	51	VAL
4	AD	53	PHE
4	AD	59	LYS
4	AD	63	ARG
4	AD	70	TRP
4	AD	73	VAL
4	AD	84	TYR
4	AD	87	ASN
4	AD	91	ARG
4	AD	92	ILE
4	AD	94	LEU
4	AD	95	LEU
4	AD	106	ILE
4	AD	109	ASP
4	AD	115	GLN
4	AD	116	GLN
4	AD	117	VAL
4	AD	118	VAL
4	AD	121	PRO
4	AD	131	LEU
4	AD	134	ARG
4	AD	145	VAL
4	AD	146	GLU
4	AD	147	LEU
4	AD	155	LEU
4	AD	164	GLN
4	AD	169	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	175	LEU
4	AD	176	ARG
4	AD	177	LEU
4	AD	179	SER
4	AD	181	GLU
4	AD	186	HIS
4	AD	188	GLU
4	AD	192	THR
4	AD	200	ASP
4	AD	202	LYS
4	AD	206	LEU
4	AD	217	ARG
4	AD	220	HIS
4	AD	226	MET
4	AD	229	VAL
4	AD	230	ASP
4	AD	232	PRO
4	AD	233	HIS
4	AD	239	ARG
4	AD	249	PRO
4	AD	250	TRP
4	AD	252	TRP
4	AD	253	GLN
4	AD	254	THR
4	AD	258	LYS
4	AD	259	THR
4	AD	260	ARG
4	AD	264	LYS
4	AD	270	ILE
4	AD	273	ARG
5	AE	2	LYS
5	AE	4	ILE
5	AE	5	LEU
5	AE	7	VAL
5	AE	8	LYS
5	AE	12	THR
5	AE	13	ARG
5	AE	14	ILE
5	AE	17	ASP
5	AE	22	PRO
5	AE	27	LEU
5	AE	33	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	35	GLN
5	AE	38	THR
5	AE	41	LYS
5	AE	45	THR
5	AE	48	GLN
5	AE	49	LEU
5	AE	51	PHE
5	AE	53	PRO
5	AE	56	PRO
5	AE	66	HIS
5	AE	77	ILE
5	AE	78	LEU
5	AE	80	GLU
5	AE	91	VAL
5	AE	96	PHE
5	AE	102	VAL
5	AE	108	SER
5	AE	113	PHE
5	AE	116	VAL
5	AE	118	LYS
5	AE	119	ARG
5	AE	120	TRP
5	AE	121	ASN
5	AE	122	PHE
5	AE	126	PRO
5	AE	129	HIS
5	AE	134	ILE
5	AE	135	HIS
5	AE	136	ARG
5	AE	137	HIS
5	AE	141	ILE
5	AE	143	ASN
5	AE	149	ARG
5	AE	150	VAL
5	AE	152	LYS
5	AE	154	LYS
5	AE	163	GLU
5	AE	165	VAL
5	AE	170	LEU
5	AE	171	GLU
5	AE	173	VAL
5	AE	176	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	179	GLU
5	AE	180	ASN
5	AE	181	LEU
5	AE	184	VAL
5	AE	185	LYS
5	AE	191	PRO
5	AE	195	LEU
5	AE	197	ILE
5	AE	199	ARG
5	AE	202	LYS
6	AF	8	GLN
6	AF	14	PRO
6	AF	17	ARG
6	AF	19	GLU
6	AF	20	LEU
6	AF	23	ASP
6	AF	27	GLU
6	AF	29	ASN
6	AF	30	PRO
6	AF	33	LEU
6	AF	34	TRP
6	AF	35	GLU
6	AF	39	TRP
6	AF	46	ARG
6	AF	60	SER
6	AF	64	ILE
6	AF	67	GLN
6	AF	69	HIS
6	AF	74	ARG
6	AF	75	HIS
6	AF	77	ASP
6	AF	78	ILE
6	AF	82	ILE
6	AF	83	PHE
6	AF	88	VAL
6	AF	95	ARG
6	AF	102	PRO
6	AF	105	VAL
6	AF	106	ARG
6	AF	108	LYS
6	AF	112	MET
6	AF	117	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	119	ARG
6	AF	120	GLU
6	AF	122	LYS
6	AF	124	LEU
6	AF	126	VAL
6	AF	127	GLU
6	AF	133	ASN
6	AF	137	LYS
6	AF	138	GLU
6	AF	140	LEU
6	AF	152	GLU
6	AF	155	LEU
6	AF	156	LEU
6	AF	157	VAL
6	AF	158	THR
6	AF	168	ARG
6	AF	170	LEU
6	AF	175	THR
6	AF	178	PRO
6	AF	181	LEU
6	AF	183	VAL
6	AF	184	TYR
6	AF	188	ARG
6	AF	192	LEU
6	AF	197	ASP
6	AF	200	GLU
6	AF	203	GLN
6	AF	204	ASN
6	AF	206	ILE
7	AG	3	LEU
7	AG	8	LYS
7	AG	12	TYR
7	AG	13	GLU
7	AG	14	GLU
7	AG	16	ARG
7	AG	20	ILE
7	AG	22	ARG
7	AG	25	TYR
7	AG	32	PRO
7	AG	33	ARG
7	AG	34	LEU
7	AG	36	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AG	39	ILE
7	AG	41	GLN
7	AG	51	ARG
7	AG	54	GLU
7	AG	55	LYS
7	AG	62	LEU
7	AG	63	ILE
7	AG	68	PRO
7	AG	77	ILE
7	AG	82	LEU
7	AG	91	ARG
7	AG	92	VAL
7	AG	94	LEU
7	AG	96	ARG
7	AG	101	ILE
7	AG	102	PHE
7	AG	103	LEU
7	AG	109	VAL
7	AG	117	PHE
7	AG	120	LEU
7	AG	126	ASP
7	AG	128	ARG
7	AG	133	LEU
7	AG	135	LEU
7	AG	139	LEU
7	AG	143	GLU
7	AG	144	ILE
7	AG	148	MET
7	AG	152	LEU
7	AG	153	ARG
7	AG	174	GLU
7	AG	181	ARG
8	AH	4	ILE
8	AH	7	LEU
8	AH	11	VAL
8	AH	13	LYS
8	AH	18	GLU
8	AH	25	LYS
8	AH	32	GLU
8	AH	35	VAL
8	AH	37	VAL
8	AH	40	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	45	VAL
8	AH	46	GLU
8	AH	50	VAL
8	AH	52	VAL
8	AH	53	GLU
8	AH	68	THR
8	AH	69	ARG
8	AH	74	ASN
8	AH	83	TYR
8	AH	85	LYS
8	AH	89	ILE
8	AH	90	LYS
8	AH	94	TYR
8	AH	95	ARG
8	AH	103	LEU
8	AH	105	LEU
8	AH	111	HIS
8	AH	115	VAL
8	AH	116	GLU
8	AH	125	VAL
8	AH	131	VAL
8	AH	132	ARG
8	AH	136	ILE
8	AH	153	LYS
8	AH	157	TYR
8	AH	158	HIS
8	AH	162	ILE
8	AH	164	TYR
8	AH	167	GLU
8	AH	168	PRO
8	AH	172	LYS
8	AH	175	LYS
10	AJ	5	VAL
10	AJ	10	LEU
10	AJ	16	LYS
10	AJ	18	THR
10	AJ	29	GLN
10	AJ	30	HIS
10	AJ	34	ILE
10	AJ	35	MET
10	AJ	39	LYS
10	AJ	50	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AJ	56	GLU
10	AJ	59	ILE
10	AJ	62	ASP
10	AJ	63	ARG
10	AJ	64	SER
10	AJ	65	PHE
10	AJ	66	THR
10	AJ	69	THR
10	AJ	70	LYS
10	AJ	76	TYR
10	AJ	77	LEU
10	AJ	79	ARG
10	AJ	85	GLU
10	AJ	86	LYS
10	AJ	95	LYS
10	AJ	96	VAL
10	AJ	109	LYS
10	AJ	111	LYS
10	AJ	114	ASP
10	AJ	117	THR
10	AJ	120	LEU
10	AJ	121	GLU
10	AJ	137	GLU
11	AK	2	LYS
11	AK	5	VAL
11	AK	7	LYS
11	AK	8	GLN
11	AK	12	ARG
11	AK	13	TRP
11	AK	14	VAL
11	AK	15	LEU
11	AK	16	ILE
11	AK	17	ASP
11	AK	22	THR
11	AK	25	ARG
11	AK	28	THR
11	AK	32	THR
11	AK	33	LEU
11	AK	35	ARG
11	AK	37	LYS
11	AK	39	ARG
11	AK	42	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	AK	43	THR
11	AK	45	ASN
11	AK	48	MET
11	AK	52	VAL
11	AK	55	VAL
11	AK	59	LYS
11	AK	67	LEU
11	AK	69	GLN
11	AK	72	TYR
11	AK	75	TYR
11	AK	78	TYR
11	AK	79	PRO
11	AK	82	LEU
11	AK	85	ILE
11	AK	89	LYS
11	AK	90	MET
11	AK	91	LEU
11	AK	98	VAL
11	AK	101	HIS
11	AK	103	VAL
11	AK	109	LYS
11	AK	122	VAL
11	AK	127	ASP
11	AK	134	ARG
11	AK	135	PRO
11	AK	136	GLU
12	AL	3	GLN
12	AL	6	THR
12	AL	7	TYR
12	AL	8	LEU
12	AL	12	ASP
12	AL	14	THR
12	AL	19	ILE
12	AL	20	MET
12	AL	23	ARG
12	AL	24	VAL
12	AL	25	LEU
12	AL	28	SER
12	AL	29	ASN
12	AL	34	THR
12	AL	38	VAL
12	AL	39	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AL	47	ILE
12	AL	52	VAL
12	AL	56	ASP
12	AL	58	VAL
12	AL	59	LYS
12	AL	62	VAL
12	AL	64	ARG
12	AL	65	THR
12	AL	77	ILE
12	AL	78	ARG
12	AL	82	ASN
12	AL	85	VAL
12	AL	87	ILE
12	AL	89	ASN
12	AL	92	GLU
12	AL	97	ARG
12	AL	98	VAL
12	AL	104	ARG
12	AL	113	LYS
12	AL	114	ILE
12	AL	116	SER
12	AL	121	VAL
13	AM	7	ARG
13	AM	13	ASN
13	AM	17	LYS
13	AM	29	LYS
13	AM	30	THR
13	AM	40	SER
13	AM	45	LEU
13	AM	46	LYS
13	AM	48	PRO
13	AM	52	GLU
13	AM	55	ARG
13	AM	59	LEU
13	AM	60	MET
13	AM	64	LYS
13	AM	65	ARG
13	AM	68	GLN
13	AM	74	GLU
13	AM	75	ILE
13	AM	79	ARG
13	AM	84	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	AM	88	LEU
13	AM	99	LEU
13	AM	100	LEU
13	AM	105	LEU
13	AM	108	LYS
13	AM	110	TYR
13	AM	114	ILE
13	AM	117	GLU
13	AM	122	PRO
13	AM	123	LEU
13	AM	126	VAL
13	AM	128	HIS
13	AM	130	PHE
13	AM	137	LYS
13	AM	138	LEU
13	AM	147	LEU
13	AM	149	GLU
14	AN	6	ARG
14	AN	8	LYS
14	AN	18	LYS
14	AN	32	TYR
14	AN	34	LEU
14	AN	41	TRP
14	AN	42	ILE
14	AN	43	THR
14	AN	45	GLN
14	AN	48	GLU
14	AN	51	ARG
14	AN	60	ARG
14	AN	63	LYS
14	AN	64	ILE
14	AN	65	PHE
14	AN	68	ILE
14	AN	71	ASP
14	AN	74	TYR
14	AN	78	PRO
14	AN	79	LEU
14	AN	80	GLU
14	AN	83	MET
14	AN	89	ASN
14	AN	91	GLU
14	AN	94	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AN	97	VAL
14	AN	98	LYS
14	AN	101	ARG
14	AN	104	PHE
14	AN	105	GLU
14	AN	109	VAL
14	AN	112	GLU
14	AN	118	LEU
14	AN	124	LYS
14	AN	126	PRO
14	AN	127	ILE
14	AN	130	LYS
14	AN	133	ARG
14	AN	134	ARG
14	AN	135	ASP
14	AN	139	GLU
15	AO	4	LEU
15	AO	5	LYS
15	AO	10	LEU
15	AO	11	ASN
15	AO	13	HIS
15	AO	18	LEU
15	AO	23	ASN
15	AO	28	LEU
15	AO	37	THR
15	AO	49	ASP
15	AO	52	ILE
15	AO	56	LYS
15	AO	57	ARG
15	AO	59	ASP
15	AO	60	LEU
15	AO	64	ARG
15	AO	67	LEU
15	AO	70	LEU
15	AO	74	LYS
15	AO	77	ARG
15	AO	79	LEU
15	AO	82	GLU
15	AO	86	ARG
15	AO	88	ARG
15	AO	89	ASP
15	AO	99	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AO	100	LEU
15	AO	105	ARG
15	AO	113	LEU
15	AO	116	LEU
16	AP	3	ARG
16	AP	9	ARG
16	AP	11	LYS
16	AP	12	PHE
16	AP	19	LYS
16	AP	20	ARG
16	AP	21	THR
16	AP	23	ARG
16	AP	24	LEU
16	AP	26	LEU
16	AP	27	SER
16	AP	36	TYR
16	AP	42	ASP
16	AP	57	LYS
16	AP	69	VAL
16	AP	73	LEU
16	AP	76	LYS
16	AP	78	LEU
16	AP	80	LEU
16	AP	88	ASP
16	AP	94	TYR
16	AP	97	ARG
16	AP	98	VAL
16	AP	112	PHE
17	AQ	1	MET
17	AQ	11	GLU
17	AQ	20	PRO
17	AQ	22	PHE
17	AQ	23	ARG
17	AQ	30	VAL
17	AQ	32	TYR
17	AQ	39	ARG
17	AQ	43	GLN
17	AQ	46	GLU
17	AQ	48	ILE
17	AQ	50	ILE
17	AQ	54	ARG
17	AQ	55	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AQ	57	PHE
17	AQ	58	ASN
17	AQ	61	PHE
17	AQ	62	THR
17	AQ	64	ARG
17	AQ	66	VAL
17	AQ	68	TYR
17	AQ	75	ILE
17	AQ	78	LEU
17	AQ	79	HIS
17	AQ	82	LEU
17	AQ	85	LYS
17	AQ	86	ILE
17	AQ	88	ILE
17	AQ	93	ARG
17	AQ	95	ARG
17	AQ	96	ARG
17	AQ	101	PHE
17	AQ	102	ILE
17	AQ	103	ARG
17	AQ	106	SER
17	AQ	107	ASP
17	AQ	108	ARG
17	AQ	109	GLU
18	AR	6	THR
18	AR	13	LYS
18	AR	16	LYS
18	AR	19	LYS
18	AR	25	TRP
18	AR	32	PHE
18	AR	38	THR
18	AR	50	ARG
18	AR	52	ARG
18	AR	53	ARG
18	AR	54	LYS
18	AR	55	ARG
18	AR	58	ARG
18	AR	62	ILE
18	AR	65	ILE
18	AR	71	GLN
18	AR	74	LEU
18	AR	75	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	AR	77	SER
18	AR	81	HIS
18	AR	83	LEU
18	AR	84	LYS
18	AR	88	ILE
18	AR	92	ARG
18	AR	93	LYS
18	AR	100	VAL
18	AR	105	VAL
18	AR	108	GLU
18	AR	114	LYS
19	AS	4	ILE
19	AS	13	ARG
19	AS	14	VAL
19	AS	15	GLU
19	AS	18	LEU
19	AS	29	PRO
19	AS	35	LEU
19	AS	36	PRO
19	AS	40	LEU
19	AS	43	GLU
19	AS	44	LYS
19	AS	45	THR
19	AS	49	THR
19	AS	52	VAL
19	AS	56	SER
19	AS	60	GLU
19	AS	62	LEU
19	AS	64	HIS
19	AS	78	LYS
19	AS	79	VAL
19	AS	83	ARG
19	AS	84	LYS
19	AS	87	HIS
19	AS	93	GLU
20	AT	4	LYS
20	AT	8	ARG
20	AT	10	VAL
20	AT	11	ARG
20	AT	12	ILE
20	AT	16	LYS
20	AT	18	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AT	24	ILE
20	AT	31	GLU
20	AT	33	ARG
20	AT	40	ASN
20	AT	42	ARG
20	AT	45	TYR
20	AT	47	VAL
20	AT	51	LEU
20	AT	60	ASN
20	AT	66	GLU
20	AT	67	ASP
20	AT	71	VAL
20	AT	82	LEU
20	AT	87	PRO
20	AT	88	ARG
20	AT	90	ARG
20	AT	94	ASP
20	AT	95	ILE
20	AT	98	LYS
20	AT	103	ILE
20	AT	106	ILE
21	AU	8	ILE
21	AU	9	LEU
21	AU	13	LEU
21	AU	14	SER
21	AU	16	LYS
21	AU	23	GLU
21	AU	28	PHE
21	AU	33	LYS
21	AU	36	LYS
21	AU	37	THR
21	AU	38	GLU
21	AU	45	THR
21	AU	47	PHE
21	AU	50	LYS
21	AU	51	VAL
21	AU	55	ASN
21	AU	57	LEU
21	AU	63	LYS
21	AU	65	ARG
21	AU	73	ARG
21	AU	83	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AU	92	LEU
22	AV	6	HIS
22	AV	12	THR
22	AV	13	VAL
22	AV	14	LEU
22	AV	19	LYS
22	AV	27	VAL
22	AV	28	LYS
22	AV	35	TYR
22	AV	42	VAL
22	AV	64	GLU
22	AV	72	VAL
22	AV	73	ARG
22	AV	75	ILE
22	AV	84	ARG
22	AV	90	LEU
22	AV	91	GLU
22	AV	96	ILE
22	AV	102	CYS
22	AV	107	ASP
23	AW	3	TYR
23	AW	8	TYR
23	AW	13	GLU
23	AW	14	LYS
23	AW	24	LEU
23	AW	28	MET
23	AW	30	ASN
23	AW	43	GLU
23	AW	44	PHE
23	AW	45	ASP
23	AW	47	VAL
23	AW	49	ARG
23	AW	50	GLN
23	AW	53	ILE
23	AW	58	VAL
23	AW	59	LEU
23	AW	60	GLU
23	AW	62	PRO
23	AW	63	ASP
23	AW	70	LEU
23	AW	78	LYS
23	AW	83	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	AW	86	VAL
23	AW	87	ASP
23	AW	89	PHE
23	AW	90	VAL
23	AW	95	PRO
23	AW	104	PHE
23	AW	108	PRO
23	AW	118	GLN
23	AW	120	ILE
23	AW	129	SER
23	AW	140	ASP
23	AW	141	VAL
23	AW	151	HIS
23	AW	155	LEU
23	AW	159	PRO
23	AW	163	LEU
23	AW	168	GLU
23	AW	171	ILE
23	AW	174	VAL
23	AW	175	VAL
23	AW	179	ASP
24	AX	10	THR
24	AX	20	ARG
24	AX	26	TYR
24	AX	29	GLN
24	AX	30	VAL
24	AX	32	ARG
24	AX	36	ILE
24	AX	37	LEU
24	AX	40	GLN
24	AX	41	ARG
24	AX	46	LYS
24	AX	55	ARG
24	AX	57	PHE
24	AX	58	THR
24	AX	64	ASP
24	AX	68	GLU
24	AX	74	ARG
24	AX	81	VAL
25	AY	1	MET
25	AY	6	GLU
25	AY	12	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	AY	19	LEU
25	AY	22	GLU
25	AY	30	LEU
25	AY	32	PHE
25	AY	33	GLN
25	AY	35	SER
25	AY	45	ILE
25	AY	48	LEU
25	AY	50	ARG
25	AY	54	ARG
25	AY	56	LEU
25	AY	58	VAL
25	AY	64	ARG
25	AY	65	GLN
25	AY	66	ASN
26	AZ	3	ARG
26	AZ	5	LYS
26	AZ	6	VAL
26	AZ	12	PRO
26	AZ	15	TYR
26	AZ	26	LEU
26	AZ	28	LEU
26	AZ	30	ARG
26	AZ	31	LEU
26	AZ	32	GLN
26	AZ	37	LEU
26	AZ	41	PRO
26	AZ	50	VAL
26	AZ	55	ARG
26	AZ	59	VAL
27	Aa	3	GLU
27	Aa	11	PRO
27	Aa	14	ILE
27	Aa	15	ILE
27	Aa	16	CYS
27	Aa	23	GLU
27	Aa	24	THR
27	Aa	27	THR
27	Aa	29	PRO
27	Aa	31	ILE
27	Aa	37	SER
27	Aa	46	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	Aa	47	GLN
27	Aa	49	PHE
27	Aa	56	VAL
27	Aa	57	GLU
27	Aa	59	PHE
27	Aa	60	GLN
27	Aa	62	ARG
27	Aa	68	ARG
28	Ab	4	HIS
28	Ab	9	LYS
28	Ab	11	THR
28	Ab	15	ARG
28	Ab	17	ASP
28	Ab	20	ARG
28	Ab	25	LEU
28	Ab	26	THR
28	Ab	30	LEU
28	Ab	33	CYS
28	Ab	36	CYS
28	Ab	37	LYS
28	Ab	39	MET
28	Ab	49	CYS
28	Ab	51	TYR
28	Ab	58	LEU
28	Ab	59	GLU
29	Ac	7	ILE
29	Ac	10	LEU
29	Ac	11	LEU
29	Ac	13	CYS
29	Ac	15	GLU
29	Ac	19	ARG
29	Ac	29	ASN
29	Ac	30	THR
29	Ac	31	PRO
29	Ac	32	ASN
29	Ac	33	LYS
29	Ac	38	LYS
29	Ac	43	CYS
29	Ac	46	HIS
29	Ac	48	VAL
29	Ac	51	GLU
29	Ac	54	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	Ad	5	TRP
30	Ad	6	GLN
30	Ad	8	ASN
30	Ad	12	ARG
30	Ad	19	ARG
30	Ad	21	ARG
30	Ad	24	THR
30	Ad	34	ARG
30	Ad	36	GLN
30	Ad	41	ARG
30	Ad	46	VAL
30	Ad	48	LYS
31	Ae	5	LYS
31	Ae	16	ILE
31	Ae	21	LYS
31	Ae	23	VAL
31	Ae	33	ASN
31	Ae	39	LYS
31	Ae	41	ILE
31	Ae	42	ARG
31	Ae	44	LYS
31	Ae	50	LEU
31	Ae	52	LYS
31	Ae	56	GLU
31	Ae	58	ILE
31	Ae	59	LYS
31	Ae	62	LEU
32	Af	10	ILE
32	Af	17	ILE
32	Af	19	ARG
32	Af	23	VAL
32	Af	27	CYS
35	BF	10	LEU
35	BF	11	LEU
35	BF	17	PHE
35	BF	20	GLU
35	BF	21	ARG
35	BF	23	ARG
35	BF	25	ASN
35	BF	26	PRO
35	BF	32	ILE
35	BF	35	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BF	36	ARG
35	BF	40	HIS
35	BF	44	LEU
35	BF	47	THR
35	BF	48	MET
35	BF	49	GLU
35	BF	52	GLU
35	BF	56	ARG
35	BF	57	PHE
35	BF	61	LEU
35	BF	64	ARG
35	BF	68	ILE
35	BF	69	LEU
35	BF	70	PHE
35	BF	74	LYS
35	BF	75	LYS
35	BF	80	ILE
35	BF	84	GLU
35	BF	91	PRO
35	BF	92	TYR
35	BF	101	MET
35	BF	102	LEU
35	BF	105	PHE
35	BF	111	ARG
35	BF	114	ARG
35	BF	116	GLU
35	BF	118	LEU
35	BF	122	PHE
35	BF	131	PRO
35	BF	132	LYS
35	BF	134	GLU
35	BF	135	GLN
35	BF	137	ARG
35	BF	147	LYS
35	BF	148	TYR
35	BF	152	PHE
35	BF	153	ARG
35	BF	154	LEU
35	BF	158	LEU
35	BF	162	ILE
35	BF	168	THR
35	BF	169	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BF	172	ILE
35	BF	181	PHE
35	BF	182	ILE
35	BF	185	ILE
35	BF	187	LEU
35	BF	189	ASP
35	BF	191	ASP
35	BF	194	PRO
35	BF	195	ASP
35	BF	196	LEU
35	BF	208	ILE
35	BF	209	ARG
35	BF	212	GLN
35	BF	217	ARG
35	BF	221	LEU
35	BF	222	ILE
35	BF	229	VAL
36	BG	5	ILE
36	BG	8	ILE
36	BG	10	PHE
36	BG	15	THR
36	BG	29	TYR
36	BG	33	LEU
36	BG	34	LEU
36	BG	35	GLU
36	BG	38	ARG
36	BG	46	GLU
36	BG	48	TYR
36	BG	52	LEU
36	BG	67	THR
36	BG	76	VAL
36	BG	82	GLU
36	BG	89	GLU
36	BG	91	LEU
36	BG	95	THR
36	BG	97	LYS
36	BG	99	VAL
36	BG	107	GLN
36	BG	125	GLU
36	BG	136	GLN
36	BG	139	GLN
36	BG	140	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BG	142	MET
36	BG	164	ARG
36	BG	165	THR
36	BG	176	HIS
36	BG	178	LEU
36	BG	186	PHE
36	BG	188	LEU
36	BG	190	ARG
36	BG	193	TYR
36	BG	195	VAL
36	BG	196	LEU
36	BG	198	VAL
36	BG	201	TYR
36	BG	204	LEU
37	BH	5	ILE
37	BH	8	VAL
37	BH	9	CYS
37	BH	14	ARG
37	BH	15	GLU
37	BH	20	TYR
37	BH	25	ARG
37	BH	26	CYS
37	BH	29	PRO
37	BH	31	CYS
37	BH	33	MET
37	BH	47	ARG
37	BH	51	PRO
37	BH	58	LEU
37	BH	59	ARG
37	BH	61	LYS
37	BH	62	GLN
37	BH	63	LYS
37	BH	64	LEU
37	BH	68	TYR
37	BH	78	LEU
37	BH	83	SER
37	BH	85	LYS
37	BH	101	LEU
37	BH	104	VAL
37	BH	107	ARG
37	BH	108	LEU
37	BH	112	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BH	114	ARG
37	BH	116	GLN
37	BH	120	LEU
37	BH	131	ARG
37	BH	132	ARG
37	BH	135	LEU
37	BH	141	ARG
37	BH	142	PRO
37	BH	146	ILE
37	BH	154	ASN
37	BH	155	LEU
37	BH	168	ARG
37	BH	173	TRP
37	BH	175	SER
37	BH	178	VAL
37	BH	181	MET
37	BH	182	LYS
37	BH	190	ASP
37	BH	191	ARG
37	BH	193	ASP
37	BH	194	LEU
37	BH	196	LEU
37	BH	198	VAL
38	BI	5	ASP
38	BI	6	PHE
38	BI	7	GLU
38	BI	15	ARG
38	BI	16	THR
38	BI	25	ARG
38	BI	26	PHE
38	BI	27	ARG
38	BI	28	PHE
38	BI	31	LEU
38	BI	34	VAL
38	BI	41	VAL
38	BI	56	GLN
38	BI	60	TYR
38	BI	63	ARG
38	BI	64	ARG
38	BI	67	VAL
38	BI	78	HIS
38	BI	79	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BI	80	ILE
38	BI	81	GLU
38	BI	89	ILE
38	BI	91	LEU
38	BI	101	ILE
38	BI	105	VAL
38	BI	111	GLU
38	BI	112	LEU
38	BI	119	LEU
38	BI	121	LYS
38	BI	128	PRO
38	BI	129	ILE
38	BI	131	ILE
38	BI	133	TYR
38	BI	139	LEU
38	BI	141	GLN
38	BI	142	LEU
38	BI	143	ARG
38	BI	145	LYS
38	BI	150	ARG
39	BJ	2	ARG
39	BJ	4	TYR
39	BJ	5	GLU
39	BJ	6	VAL
39	BJ	8	ILE
39	BJ	10	LEU
39	BJ	13	ASN
39	BJ	14	LEU
39	BJ	37	VAL
39	BJ	40	VAL
39	BJ	42	GLU
39	BJ	47	ARG
39	BJ	48	LEU
39	BJ	50	TYR
39	BJ	55	ASP
39	BJ	57	GLN
39	BJ	60	PHE
39	BJ	65	VAL
39	BJ	66	GLU
39	BJ	69	GLU
39	BJ	74	ASP
39	BJ	75	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BJ	79	LEU
39	BJ	83	ASP
39	BJ	88	VAL
39	BJ	94	GLN
39	BJ	95	GLU
39	BJ	98	LEU
40	BK	5	ARG
40	BK	6	ARG
40	BK	12	LEU
40	BK	14	PRO
40	BK	17	VAL
40	BK	22	LEU
40	BK	36	LYS
40	BK	41	ARG
40	BK	47	CYS
40	BK	51	GLN
40	BK	54	THR
40	BK	56	GLN
40	BK	69	VAL
40	BK	72	ARG
40	BK	74	GLU
40	BK	76	ARG
40	BK	80	VAL
40	BK	99	LEU
40	BK	101	LEU
40	BK	103	TRP
40	BK	106	GLN
40	BK	111	ARG
40	BK	113	GLU
40	BK	123	GLU
40	BK	124	LEU
40	BK	126	ASP
40	BK	139	GLU
40	BK	140	ASP
40	BK	143	ARG
40	BK	146	GLU
40	BK	149	ARG
40	BK	155	ARG
40	BK	156	TRP
41	BL	1	MET
41	BL	4	ASP
41	BL	6	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BL	14	ARG
41	BL	15	ASN
41	BL	18	ARG
41	BL	25	ASP
41	BL	26	VAL
41	BL	31	PHE
41	BL	32	LYS
41	BL	33	GLU
41	BL	36	LEU
41	BL	37	ARG
41	BL	38	ILE
41	BL	39	LEU
41	BL	45	ILE
41	BL	49	GLU
41	BL	50	ARG
41	BL	63	LEU
41	BL	70	GLN
41	BL	80	ILE
41	BL	84	ARG
41	BL	88	LYS
41	BL	92	ARG
41	BL	98	LYS
41	BL	100	ILE
41	BL	102	ARG
41	BL	103	VAL
41	BL	104	ARG
41	BL	107	LEU
41	BL	111	ILE
41	BL	119	LEU
41	BL	122	ARG
41	BL	136	GLU
42	BM	4	TYR
42	BM	7	THR
42	BM	11	LYS
42	BM	12	GLU
42	BM	19	LEU
42	BM	21	PRO
42	BM	28	VAL
42	BM	32	ASP
42	BM	37	PHE
42	BM	47	LEU
42	BM	54	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BM	63	ILE
42	BM	64	THR
42	BM	75	ASP
42	BM	79	LEU
42	BM	89	ASN
42	BM	98	PRO
42	BM	99	LEU
42	BM	101	PHE
42	BM	102	LEU
42	BM	105	ASP
42	BM	110	GLU
42	BM	116	LYS
42	BM	117	HIS
43	BN	3	LYS
43	BN	4	ILE
43	BN	5	ARG
43	BN	8	LEU
43	BN	9	ARG
43	BN	11	PHE
43	BN	14	LYS
43	BN	33	GLN
43	BN	45	ARG
43	BN	47	PHE
43	BN	49	VAL
43	BN	60	ARG
43	BN	62	HIS
43	BN	63	PHE
43	BN	79	ARG
43	BN	81	THR
43	BN	82	ILE
43	BN	83	GLU
43	BN	84	GLN
43	BN	85	LEU
43	BN	95	GLU
44	BO	13	GLN
44	BO	18	ARG
44	BO	22	HIS
44	BO	39	PRO
44	BO	40	ILE
44	BO	42	TRP
44	BO	50	TYR
44	BO	54	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BO	62	GLN
44	BO	67	ASP
44	BO	78	GLN
44	BO	82	VAL
44	BO	99	GLN
44	BO	116	HIS
44	BO	125	PHE
45	BP	8	ASN
45	BP	10	LEU
45	BP	16	GLU
45	BP	23	LYS
45	BP	24	VAL
45	BP	32	PHE
45	BP	38	THR
45	BP	42	THR
45	BP	53	ARG
45	BP	60	LEU
45	BP	64	TYR
45	BP	65	GLU
45	BP	66	VAL
45	BP	73	GLU
45	BP	79	GLU
45	BP	84	LEU
45	BP	85	ILE
45	BP	93	LEU
45	BP	98	TYR
45	BP	100	ILE
45	BP	101	VAL
45	BP	113	ARG
45	BP	119	LYS
45	BP	126	LYS
45	BP	127	GLU
46	BQ	3	ARG
46	BQ	11	ARG
46	BQ	13	LYS
46	BQ	17	VAL
46	BQ	19	LEU
46	BQ	27	LYS
46	BQ	35	GLU
46	BQ	39	ILE
46	BQ	44	ARG
46	BQ	48	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
46	BQ	49	THR
46	BQ	56	LEU
46	BQ	58	GLU
46	BQ	60	VAL
46	BQ	65	LYS
46	BQ	66	LEU
46	BQ	67	GLU
46	BQ	70	LEU
46	BQ	71	ARG
46	BQ	73	GLU
46	BQ	81	LEU
46	BQ	88	ARG
46	BQ	102	ARG
46	BQ	108	ARG
46	BQ	110	ARG
46	BQ	115	LYS
47	BR	11	LYS
47	BR	18	VAL
47	BR	22	THR
47	BR	24	CYS
47	BR	29	ARG
47	BR	34	TYR
47	BR	40	CYS
47	BR	43	CYS
47	BR	45	ARG
47	BR	49	HIS
47	BR	54	PRO
47	BR	56	VAL
48	BS	3	ILE
48	BS	4	THR
48	BS	5	LYS
48	BS	13	GLN
48	BS	14	GLU
48	BS	26	GLU
48	BS	36	ILE
48	BS	39	LEU
48	BS	41	GLU
48	BS	42	HIS
48	BS	44	LYS
48	BS	49	ASP
48	BS	64	ARG
48	BS	66	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	BS	73	GLU
48	BS	78	TYR
48	BS	79	ARG
49	BT	2	VAL
49	BT	3	LYS
49	BT	4	ILE
49	BT	6	LEU
49	BT	14	ASN
49	BT	15	PRO
49	BT	18	ARG
49	BT	27	LYS
49	BT	31	LYS
49	BT	32	TYR
49	BT	36	ILE
49	BT	39	TYR
49	BT	40	ASP
49	BT	51	VAL
49	BT	52	ASP
49	BT	54	GLU
49	BT	55	ARG
49	BT	59	TRP
49	BT	62	VAL
49	BT	65	GLN
49	BT	66	PRO
49	BT	69	THR
49	BT	72	ARG
49	BT	75	ARG
49	BT	82	GLN
50	BU	12	SER
50	BU	15	MET
50	BU	18	THR
50	BU	24	GLU
50	BU	25	ARG
50	BU	27	PHE
50	BU	28	PRO
50	BU	36	ILE
50	BU	40	LYS
50	BU	43	LEU
50	BU	48	GLU
50	BU	51	TYR
50	BU	57	VAL
50	BU	58	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	BU	60	ILE
50	BU	62	SER
50	BU	67	LYS
50	BU	69	LYS
50	BU	84	LEU
50	BU	86	GLU
50	BU	87	LYS
50	BU	93	GLN
50	BU	95	TYR
50	BU	96	GLN
50	BU	98	LEU
50	BU	100	LYS
50	BU	101	ARG
51	BV	28	GLU
51	BV	36	ASN
51	BV	37	VAL
51	BV	38	GLU
51	BV	49	LYS
51	BV	55	ARG
51	BV	62	GLU
51	BV	63	GLN
51	BV	72	ARG
51	BV	79	LEU
51	BV	80	PRO
51	BV	81	PHE
51	BV	83	GLU
52	BW	3	ARG
52	BW	6	LYS
52	BW	7	LYS
52	BW	11	VAL
52	BW	12	ASP
52	BW	14	HIS
52	BW	15	LEU
52	BW	17	GLU
52	BW	18	LYS
52	BW	19	VAL
52	BW	25	LYS
52	BW	37	ARG
52	BW	41	VAL
52	BW	42	PRO
52	BW	43	GLU
52	BW	52	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
52	BW	57	HIS
52	BW	74	PHE
53	BX	13	LEU
53	BX	23	ARG
53	BX	25	ARG
53	BX	30	LYS
53	BX	35	THR
53	BX	42	GLN
53	BX	46	GLU
53	BX	51	GLU
53	BX	56	MET
53	BX	63	ILE
53	BX	71	THR
53	BX	73	HIS
53	BX	79	ARG
53	BX	84	LEU
53	BX	87	LYS
53	BX	88	VAL
53	BX	91	LEU
54	BY	9	ARG
54	BY	10	ARG
55	CA	3	GLU
55	CA	4	LYS
55	CA	13	HIS
55	CA	20	THR
55	CA	24	LYS
55	CA	26	LEU
55	CA	27	GLN
55	CA	28	GLN
55	CA	29	SER
55	CA	31	THR
55	CA	33	ASP
55	CA	34	SER
55	CA	35	ARG
55	CA	37	GLU
55	CA	40	GLU
55	CA	42	VAL
55	CA	48	LEU
55	CA	50	LYS
55	CA	52	ARG
55	CA	54	ILE
55	CA	57	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	CA	59	LYS
55	CA	61	THR
55	CA	65	LYS
55	CA	67	ASP
55	CA	68	TYR
55	CA	72	ILE
55	CA	81	PHE
55	CA	84	GLU
55	CA	89	MET
55	CA	91	MET
55	CA	94	SER
55	CA	95	VAL
55	CA	108	GLN
55	CA	110	ARG
55	CA	115	LYS
55	CA	121	LEU
55	CA	131	ASP
55	CA	132	ARG
55	CA	136	ARG
55	CA	142	ASP
55	CA	146	ASP
55	CA	147	LEU
55	CA	150	ASN
55	CA	151	LEU
55	CA	157	GLN
55	CA	160	PHE
55	CA	174	LEU
55	CA	181	GLU
55	CA	182	ASP
55	CA	183	MET
55	CA	186	LEU
55	CA	201	LEU
55	CA	202	ASP
55	CA	207	MET
55	CA	208	GLN
55	CA	216	SER
55	CA	218	VAL
55	CA	221	ILE
55	CA	225	ARG
55	CA	230	LYS
55	CA	232	LYS
55	CA	234	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	CA	241	ASP
55	CA	243	GLU
55	CA	245	LYS
55	CA	247	ARG
55	CA	253	LYS
55	CA	255	LEU
55	CA	258	LEU
55	CA	260	LEU
55	CA	261	GLU
55	CA	262	ARG
55	CA	265	THR
55	CA	272	ASP
55	CA	273	ILE
55	CA	276	ILE
55	CA	283	ASN
55	CA	284	ILE
55	CA	289	CYS
55	CA	297	LEU
55	CA	301	SER
55	CA	308	SER
55	CA	321	LYS
55	CA	324	LYS
55	CA	329	ARG
55	CA	332	LEU
55	CA	333	ASP
55	CA	346	ARG
55	CA	359	SER
55	CA	364	LEU
55	CA	380	LEU
55	CA	382	VAL
55	CA	384	ARG
55	CA	387	VAL
55	CA	390	ARG
55	CA	393	ASP
55	CA	398	GLU
55	CA	404	THR
55	CA	405	LEU
55	CA	407	VAL
55	CA	410	GLN
55	CA	411	HIS
55	CA	419	LEU
55	CA	434	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	CA	443	ILE
55	CA	445	SER
55	CA	448	LEU
55	CA	460	SER
55	CA	464	LEU
55	CA	465	LEU
55	CA	466	TYR
55	CA	472	TYR
55	CA	475	VAL
55	CA	482	GLN
55	CA	483	ARG
55	CA	485	ASN
55	CA	488	LEU
55	CA	489	ILE
55	CA	491	ASN
55	CA	493	GLN
55	CA	506	ASP
55	CA	507	ARG
55	CA	509	LYS
55	CA	512	LEU
55	CA	526	ILE
55	CA	528	SER
55	CA	534	THR
55	CA	538	LEU
55	CA	542	LYS
55	CA	574	ASP
55	CA	588	ARG
55	CA	589	LYS
55	CA	593	THR
55	CA	597	ARG
55	CA	605	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (186) such sidechains are listed below:

Mol	Chain	Res	Type
3	AC	3	HIS
3	AC	27	HIS
3	AC	56	GLN
3	AC	57	ASN
3	AC	66	HIS
3	AC	148	ASN
3	AC	188	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	45	ASN
4	AD	87	ASN
4	AD	115	GLN
4	AD	166	GLN
4	AD	198	ASN
4	AD	201	HIS
5	AE	35	GLN
5	AE	85	ASN
5	AE	121	ASN
5	AE	129	HIS
5	AE	135	HIS
6	AF	67	GLN
6	AF	133	ASN
6	AF	169	ASN
7	AG	26	GLN
7	AG	40	ASN
7	AG	41	GLN
7	AG	123	ASN
7	AG	130	ASN
8	AH	74	ASN
8	AH	143	GLN
10	AJ	11	GLN
10	AJ	33	ASN
10	AJ	116	ASN
11	AK	38	HIS
11	AK	94	HIS
12	AL	5	GLN
12	AL	89	ASN
12	AL	90	GLN
13	AM	13	ASN
13	AM	35	HIS
13	AM	38	GLN
13	AM	68	GLN
13	AM	81	GLN
13	AM	84	ASN
14	AN	12	GLN
14	AN	89	ASN
15	AO	24	GLN
15	AO	31	HIS
16	AP	38	GLN
16	AP	84	GLN
17	AQ	55	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AQ	58	ASN
17	AQ	90	GLN
18	AR	44	ASN
18	AR	66	ASN
18	AR	71	GLN
18	AR	94	ASN
18	AR	117	GLN
19	AS	11	GLN
19	AS	64	HIS
19	AS	87	HIS
19	AS	89	GLN
20	AT	34	ASN
20	AT	61	ASN
20	AT	62	HIS
20	AT	102	HIS
21	AU	31	HIS
21	AU	55	ASN
21	AU	82	GLN
21	AU	87	GLN
22	AV	6	HIS
23	AW	32	HIS
23	AW	34	ASN
23	AW	75	ASN
23	AW	118	GLN
23	AW	121	HIS
24	AX	3	HIS
24	AX	35	ASN
25	AY	33	GLN
25	AY	41	GLN
25	AY	51	GLN
25	AY	65	GLN
27	Aa	46	GLN
28	Ab	23	HIS
28	Ab	43	HIS
29	Ac	20	ASN
29	Ac	29	ASN
29	Ac	32	ASN
30	Ad	6	GLN
30	Ad	16	HIS
30	Ad	36	GLN
31	Ae	31	HIS
31	Ae	33	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	Ae	35	GLN
31	Ae	43	GLN
32	Af	29	ASN
32	Af	36	GLN
35	BF	40	HIS
35	BF	78	GLN
35	BF	94	ASN
35	BF	135	GLN
35	BF	204	ASN
35	BF	224	GLN
36	BG	6	HIS
36	BG	28	GLN
36	BG	102	ASN
36	BG	108	ASN
36	BG	110	ASN
36	BG	136	GLN
36	BG	139	GLN
36	BG	170	GLN
37	BH	42	GLN
37	BH	62	GLN
37	BH	74	GLN
37	BH	77	ASN
37	BH	154	ASN
37	BH	161	ASN
37	BH	201	GLN
38	BI	56	GLN
38	BI	65	ASN
38	BI	72	GLN
39	BJ	13	ASN
39	BJ	18	GLN
39	BJ	32	ASN
39	BJ	64	GLN
39	BJ	84	ASN
39	BJ	100	ASN
40	BK	56	GLN
40	BK	68	ASN
40	BK	96	GLN
40	BK	97	GLN
40	BK	106	GLN
40	BK	109	ASN
40	BK	110	GLN
40	BK	153	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BL	15	ASN
41	BL	70	GLN
42	BM	23	ASN
42	BM	58	HIS
42	BM	73	GLN
42	BM	87	GLN
42	BM	89	ASN
42	BM	117	HIS
43	BN	56	HIS
43	BN	62	HIS
43	BN	68	HIS
43	BN	76	ASN
43	BN	78	ASN
44	BO	26	ASN
44	BO	27	ASN
44	BO	38	ASN
44	BO	104	GLN
44	BO	117	ASN
45	BP	9	GLN
45	BP	49	ASN
45	BP	80	HIS
45	BP	99	HIS
46	BQ	40	ASN
46	BQ	101	GLN
48	BS	9	GLN
48	BS	13	GLN
48	BS	37	ASN
48	BS	50	HIS
48	BS	53	HIS
48	BS	62	GLN
49	BT	82	GLN
50	BU	93	GLN
52	BW	53	ASN
52	BW	65	ASN
52	BW	69	HIS
53	BX	16	HIS
53	BX	42	GLN
53	BX	45	GLN
53	BX	73	HIS
53	BX	75	ASN
55	CA	143	GLN
55	CA	150	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	CA	188	GLN
55	CA	206	GLN
55	CA	211	GLN
55	CA	215	ASN
55	CA	248	ASN
55	CA	410	GLN
55	CA	412	GLN
55	CA	417	GLN
55	CA	485	ASN
55	CA	491	ASN
55	CA	527	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	2884/2889 (99%)	1267 (43%)	253 (8%)
2	AB	122/123 (99%)	46 (37%)	3 (2%)
34	BA	1514/1515 (99%)	484 (31%)	140 (9%)
All	All	4520/4527 (99%)	1797 (39%)	396 (8%)

All (1797) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	13	A
1	AA	14	A
1	AA	15	G
1	AA	20	C
1	AA	26	G
1	AA	29	U
1	AA	34	C
1	AA	35	G
1	AA	46	C
1	AA	49	A
1	AA	50	U
1	AA	52	A
1	AA	60	G
1	AA	61	G
1	AA	63	U
1	AA	64	A
1	AA	68	G
1	AA	71	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	72	U
1	AA	73	A
1	AA	74	A
1	AA	75	G
1	AA	76	C
1	AA	77	C
1	AA	82	G
1	AA	84	A
1	AA	88	G
1	AA	90	U
1	AA	91	A
1	AA	92	G
1	AA	96	G
1	AA	101	G
1	AA	102	G
1	AA	104	U
1	AA	105	C
1	AA	109	G
1	AA	112	U
1	AA	113	G
1	AA	119	A
1	AA	120	U
1	AA	121	G
1	AA	125	G
1	AA	126	A
1	AA	131	G
1	AA	132	G
1	AA	136	G
1	AA	138	G
1	AA	139	G
1	AA	140	A
1	AA	141(A)	C
1	AA	147	U
1	AA	149	A
1	AA	153	C
1	AA	154	G
1	AA	155	C
1	AA	161	U
1	AA	162	U
1	AA	163	U
1	AA	164	U
1	AA	172	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	178	G
1	AA	180	G
1	AA	181	A
1	AA	182	A
1	AA	192	C
1	AA	193	U
1	AA	196	A
1	AA	197	A
1	AA	199	A
1	AA	200	U
1	AA	201	C
1	AA	204	A
1	AA	205	G
1	AA	206	U
1	AA	216	A
1	AA	218	A
1	AA	221	A
1	AA	222	A
1	AA	223	A
1	AA	228	A
1	AA	229	A
1	AA	230	U
1	AA	232	G
1	AA	233	A
1	AA	234	C
1	AA	241	A
1	AA	242	G
1	AA	244	A
1	AA	245	G
1	AA	247	G
1	AA	248	G
1	AA	249	C
1	AA	250	G
1	AA	251	A
1	AA	252	G
1	AA	254	G
1	AA	264	C
1	AA	265	A
1	AA	266	G
1	AA	270	A
1	AA	270(A)	A
1	AA	270(B)	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	270(C)	C
1	AA	270(E)	G
1	AA	270(G)	C
1	AA	270(K)	C
1	AA	270(L)	U
1	AA	270(M)	U
1	AA	270(N)	G
1	AA	270(V)	G
1	AA	270(Z)	U
1	AA	271(A)	C
1	AA	271(B)	G
1	AA	271(C)	U
1	AA	271	G
1	AA	272	G
1	AA	273(F)	C
1	AA	275	G
1	AA	276	A
1	AA	277	C
1	AA	278	A
1	AA	279	C
1	AA	280	C
1	AA	281	G
1	AA	282	A
1	AA	283	A
1	AA	284	U
1	AA	286	C
1	AA	287	C
1	AA	289	A
1	AA	290	G
1	AA	293	U
1	AA	300	A
1	AA	302	C
1	AA	310	A
1	AA	311	A
1	AA	312	G
1	AA	316	C
1	AA	322	A
1	AA	323	G
1	AA	324	A
1	AA	329	G
1	AA	330	A
1	AA	332	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	333	G
1	AA	339	U
1	AA	341	G
1	AA	342	G
1	AA	345	A
1	AA	347	A
1	AA	348	G
1	AA	349	G
1	AA	350	U
1	AA	351	G
1	AA	352	G
1	AA	354	G
1	AA	356	G
1	AA	359	A
1	AA	360	G
1	AA	361	G
1	AA	363(A)	A
1	AA	363(B)	G
1	AA	364	C
1	AA	365	C
1	AA	366	C
1	AA	370	G
1	AA	372	G
1	AA	373	U
1	AA	374	A
1	AA	377	C
1	AA	382	G
1	AA	386	G
1	AA	387	U
1	AA	388	G
1	AA	390	A
1	AA	391	G
1	AA	395	U
1	AA	397	G
1	AA	401	A
1	AA	404	C
1	AA	405	U
1	AA	406	G
1	AA	408	G
1	AA	411	G
1	AA	412	A
1	AA	413	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	421	U
1	AA	422	A
1	AA	423	A
1	AA	424	G
1	AA	428	A
1	AA	429	A
1	AA	443	A
1	AA	444	C
1	AA	446	G
1	AA	447	A
1	AA	448	U
1	AA	449	A
1	AA	451	C
1	AA	452	G
1	AA	453	C
1	AA	454	A
1	AA	455	C
1	AA	456	C
1	AA	457	A
1	AA	470	A
1	AA	471	A
1	AA	475	U
1	AA	479	A
1	AA	480	A
1	AA	481	G
1	AA	484	C
1	AA	492	A
1	AA	503	A
1	AA	504	U
1	AA	505	A
1	AA	506	G
1	AA	507	A
1	AA	508	G
1	AA	509	C
1	AA	510	C
1	AA	512	G
1	AA	519	U
1	AA	525	U
1	AA	527	C
1	AA	528	A
1	AA	529	A
1	AA	530	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	531	C
1	AA	532	A
1	AA	533	G
1	AA	541	C
1	AA	549	G
1	AA	554	U
1	AA	556	G
1	AA	559	G
1	AA	560	C
1	AA	563	G
1	AA	567	A
1	AA	568	U
1	AA	572	A
1	AA	573	G
1	AA	574	C
1	AA	575	A
1	AA	579	G
1	AA	580	C
1	AA	583	G
1	AA	586	A
1	AA	588	U
1	AA	591	C
1	AA	593	G
1	AA	599	G
1	AA	600	G
1	AA	601	C
1	AA	603	A
1	AA	604	G
1	AA	605	C
1	AA	607	U
1	AA	612	G
1	AA	613	U
1	AA	614	U
1	AA	615	G
1	AA	616	A
1	AA	617	G
1	AA	618(A)	C
1	AA	620	G
1	AA	621	A
1	AA	622	G
1	AA	624	C
1	AA	625	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	626	U
1	AA	627	A
1	AA	629	G
1	AA	631	A
1	AA	634	C
1	AA	637	A
1	AA	641	C
1	AA	643	A
1	AA	644	A
1	AA	646	A
1	AA	650	C
1	AA	651	G
1	AA	653	A
1	AA	654	A
1	AA	655	A
1	AA	656	G
1	AA	657	U
1	AA	665	C
1	AA	666	G
1	AA	668	G
1	AA	669	G
1	AA	670	A
1	AA	671	C
1	AA	674	G
1	AA	684	G
1	AA	686	G
1	AA	687	C
1	AA	698	C
1	AA	704	G
1	AA	705	A
1	AA	713	G
1	AA	714	U
1	AA	715	G
1	AA	716	A
1	AA	718	A
1	AA	723	G
1	AA	727	A
1	AA	728	G
1	AA	729	G
1	AA	730	C
1	AA	731	C
1	AA	734	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	735	A
1	AA	736	C
1	AA	739	G
1	AA	740	U
1	AA	741	G
1	AA	744	G
1	AA	745	G
1	AA	746	A
1	AA	747	U
1	AA	748	G
1	AA	749	C
1	AA	750	A
1	AA	751	A
1	AA	752	A
1	AA	758	C
1	AA	759	G
1	AA	762	U
1	AA	763	G
1	AA	764	A
1	AA	765	G
1	AA	774	A
1	AA	775	G
1	AA	776	G
1	AA	777	A
1	AA	779	U
1	AA	781	A
1	AA	782	A
1	AA	783	A
1	AA	784	A
1	AA	785	G
1	AA	786	C
1	AA	789	A
1	AA	790	C
1	AA	791	C
1	AA	792	G
1	AA	793	A
1	AA	794	G
1	AA	799	G
1	AA	800	A
1	AA	801	G
1	AA	802	A
1	AA	803	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	805	G
1	AA	806	C
1	AA	812	C
1	AA	816	C
1	AA	819	A
1	AA	821	A
1	AA	823	G
1	AA	824	A
1	AA	827	U
1	AA	829	A
1	AA	830	G
1	AA	831	G
1	AA	833	U
1	AA	844	C
1	AA	846	C
1	AA	847	U
1	AA	858	U
1	AA	859	G
1	AA	860	U
1	AA	861	A
1	AA	865	C
1	AA	868	U
1	AA	870	A
1	AA	874	G
1	AA	875	G
1	AA	878	A
1	AA	879	G
1	AA	880	G
1	AA	881	G
1	AA	882	G
1	AA	883	G
1	AA	884	C
1	AA	886	C
1	AA	887	A
1	AA	888	C
1	AA	889	C
1	AA	890	A
1	AA	892	G
1	AA	896	A
1	AA	897	C
1	AA	898	C
1	AA	899	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	900	A
1	AA	901	A
1	AA	902	C
1	AA	904	C
1	AA	905	U
1	AA	906	G
1	AA	907	U
1	AA	909	A
1	AA	910	A
1	AA	914	C
1	AA	918	A
1	AA	919	G
1	AA	920	G
1	AA	930	U
1	AA	931	G
1	AA	932	G
1	AA	933	A
1	AA	939	G
1	AA	941	A
1	AA	943	U
1	AA	944	G
1	AA	945	A
1	AA	946	G
1	AA	956	G
1	AA	957	A
1	AA	958	U
1	AA	959	A
1	AA	961	C
1	AA	962	G
1	AA	965	C
1	AA	972	G
1	AA	973	A
1	AA	974	G
1	AA	974(A)	C
1	AA	976	C
1	AA	982	C
1	AA	983	A
1	AA	987	G
1	AA	990	A
1	AA	995	C
1	AA	996	A
1	AA	997	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1008	C
1	AA	1009	A
1	AA	1011	G
1	AA	1012	U
1	AA	1013	C
1	AA	1021	A
1	AA	1022	G
1	AA	1023	U
1	AA	1024	G
1	AA	1025	G
1	AA	1026	U
1	AA	1027	A
1	AA	1031	G
1	AA	1032	A
1	AA	1033	U
1	AA	1034	G
1	AA	1039	G
1	AA	1040	C
1	AA	1042	G
1	AA	1043	C
1	AA	1044	G
1	AA	1045	A
1	AA	1046	A
1	AA	1047	G
1	AA	1048	A
1	AA	1050	A
1	AA	1052	C
1	AA	1053	C
1	AA	1056	G
1	AA	1057	A
1	AA	1058	G
1	AA	1059	G
1	AA	1060	U
1	AA	1061	U
1	AA	1062	G
1	AA	1063	G
1	AA	1065	U
1	AA	1066	U
1	AA	1067	A
1	AA	1068	G
1	AA	1069	A
1	AA	1070	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1071	G
1	AA	1072	C
1	AA	1073	A
1	AA	1074	G
1	AA	1075	C
1	AA	1076	C
1	AA	1077	A
1	AA	1078	U
1	AA	1079	C
1	AA	1080	C
1	AA	1083	U
1	AA	1084	A
1	AA	1085	A
1	AA	1086	A
1	AA	1087	G
1	AA	1088	A
1	AA	1090	U
1	AA	1093	G
1	AA	1099	G
1	AA	1101	U
1	AA	1103	A
1	AA	1104	C
1	AA	1108	U
1	AA	1109	C
1	AA	1110	G
1	AA	1111	A
1	AA	1112	G
1	AA	1116	C
1	AA	1126	A
1	AA	1127	A
1	AA	1128	A
1	AA	1130	U
1	AA	1131	G
1	AA	1132	A
1	AA	1134	G
1	AA	1135	C
1	AA	1140	C
1	AA	1141	U
1	AA	1143	A
1	AA	1154	G
1	AA	1155	A
1	AA	1156	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1157	G
1	AA	1160	G
1	AA	1162	G
1	AA	1171	G
1	AA	1173	G
1	AA	1174	A
1	AA	1175	U
1	AA	1176	G
1	AA	1177	A
1	AA	1179	C
1	AA	1180	C
1	AA	1182	A
1	AA	1183	G
1	AA	1184	G
1	AA	1185	C
1	AA	1186	G
1	AA	1190	G
1	AA	1199	U
1	AA	1201	C
1	AA	1203	G
1	AA	1204	A
1	AA	1205	U
1	AA	1207	C
1	AA	1209	G
1	AA	1211	U
1	AA	1212	G
1	AA	1213	A
1	AA	1220	A
1	AA	1221	C
1	AA	1222	C
1	AA	1225	C
1	AA	1228	G
1	AA	1238	G
1	AA	1241	A
1	AA	1242	A
1	AA	1244	G
1	AA	1247	A
1	AA	1248	G
1	AA	1249	U
1	AA	1251	C
1	AA	1252	G
1	AA	1253	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1254	A
1	AA	1255	U
1	AA	1256	G
1	AA	1258	C
1	AA	1260	G
1	AA	1264	G
1	AA	1265	A
1	AA	1266	G
1	AA	1267	U
1	AA	1268	A
1	AA	1271	G
1	AA	1272	A
1	AA	1273	U
1	AA	1274	A
1	AA	1275	A
1	AA	1286	A
1	AA	1289	C
1	AA	1296	G
1	AA	1297	C
1	AA	1301	A
1	AA	1302	A
1	AA	1303	G
1	AA	1304	C
1	AA	1311	G
1	AA	1312	U
1	AA	1321	A
1	AA	1324	G
1	AA	1325	G
1	AA	1326	U
1	AA	1327	C
1	AA	1329	U
1	AA	1330	C
1	AA	1335	U
1	AA	1340	U
1	AA	1341	U
1	AA	1342	A
1	AA	1343	G
1	AA	1344	G
1	AA	1345	C
1	AA	1347	G
1	AA	1350	C
1	AA	1364	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1365	A
1	AA	1366	A
1	AA	1368	G
1	AA	1378	A
1	AA	1379	A
1	AA	1388	G
1	AA	1394	U
1	AA	1395	A
1	AA	1397	U
1	AA	1398	C
1	AA	1403	C
1	AA	1407	C
1	AA	1416	G
1	AA	1418	G
1	AA	1419	A
1	AA	1420	U
1	AA	1421	G
1	AA	1424	G
1	AA	1425	G
1	AA	1427	A
1	AA	1428	C
1	AA	1429	G
1	AA	1438	U
1	AA	1444(A)	A
1	AA	1445	C
1	AA	1451	C
1	AA	1453	A
1	AA	1455	G
1	AA	1456	G
1	AA	1459	G
1	AA	1460	A
1	AA	1462	C
1	AA	1463	C
1	AA	1467	C
1	AA	1468	C
1	AA	1471	A
1	AA	1477	A
1	AA	1478	G
1	AA	1480	G
1	AA	1482	U
1	AA	1485	G
1	AA	1489	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1490	A
1	AA	1491	G
1	AA	1492	G
1	AA	1493	C
1	AA	1494	A
1	AA	1495	A
1	AA	1496	A
1	AA	1497	U
1	AA	1498	C
1	AA	1499	C
1	AA	1507	A
1	AA	1508	A
1	AA	1509	C
1	AA	1510	A
1	AA	1511	A
1	AA	1512	G
1	AA	1513	C
1	AA	1514	U
1	AA	1515	C
1	AA	1516	U
1	AA	1517	G
1	AA	1519	G
1	AA	1521	G
1	AA	1526	G
1	AA	1527	G
1	AA	1529	A
1	AA	1530	G
1	AA	1532	C
1	AA	1537	C
1	AA	1540	G
1	AA	1542	G
1	AA	1544	C
1	AA	1552	G
1	AA	1553	A
1	AA	1554	A
1	AA	1555	G
1	AA	1558	A
1	AA	1559	G
1	AA	1560	G
1	AA	1561	G
1	AA	1566	A
1	AA	1567	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1569	A
1	AA	1570	A
1	AA	1571	A
1	AA	1572	A
1	AA	1573	G
1	AA	1576	U
1	AA	1577	C
1	AA	1578	U
1	AA	1579	A
1	AA	1580	A
1	AA	1581	G
1	AA	1583	A
1	AA	1585	C
1	AA	1586	A
1	AA	1587	A
1	AA	1591	G
1	AA	1602	U
1	AA	1603	A
1	AA	1607	C
1	AA	1608	A
1	AA	1609	A
1	AA	1610	A
1	AA	1612	C
1	AA	1614	A
1	AA	1615	C
1	AA	1617	C
1	AA	1618	A
1	AA	1619	G
1	AA	1623	G
1	AA	1625	C
1	AA	1626	G
1	AA	1627	G
1	AA	1631	A
1	AA	1634	A
1	AA	1635	G
1	AA	1640	C
1	AA	1641	A
1	AA	1644	C
1	AA	1645	G
1	AA	1647	G
1	AA	1648	C
1	AA	1649	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1651	G
1	AA	1652	A
1	AA	1653	G
1	AA	1654	A
1	AA	1655	A
1	AA	1656	C
1	AA	1657	C
1	AA	1664	A
1	AA	1667	G
1	AA	1668	A
1	AA	1670	C
1	AA	1673	U
1	AA	1674	G
1	AA	1675	C
1	AA	1678	G
1	AA	1681	G
1	AA	1682	G
1	AA	1683	C
1	AA	1684	C
1	AA	1688	U
1	AA	1694	C
1	AA	1698	A
1	AA	1699	G
1	AA	1700	A
1	AA	1701	A
1	AA	1703	G
1	AA	1706	U
1	AA	1707	G
1	AA	1709	U
1	AA	1710	C
1	AA	1725	G
1	AA	1728	G
1	AA	1729	A
1	AA	1731	G
1	AA	1732	A
1	AA	1733	G
1	AA	1734	C
1	AA	1741	C
1	AA	1742	C
1	AA	1743	G
1	AA	1746	G
1	AA	1747	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1755	A
1	AA	1757	U
1	AA	1758	G
1	AA	1759	A
1	AA	1762	A
1	AA	1763	G
1	AA	1764	G
1	AA	1773	A
1	AA	1775	U
1	AA	1779	U
1	AA	1780	A
1	AA	1781	C
1	AA	1782	C
1	AA	1783	A
1	AA	1784	A
1	AA	1785	A
1	AA	1790	C
1	AA	1791	A
1	AA	1798	U
1	AA	1799	G
1	AA	1800	C
1	AA	1801	G
1	AA	1802	A
1	AA	1803	A
1	AA	1805	U
1	AA	1809	A
1	AA	1810	A
1	AA	1815	A
1	AA	1816	G
1	AA	1817	G
1	AA	1819	A
1	AA	1820	U
1	AA	1821	A
1	AA	1826	G
1	AA	1828	G
1	AA	1829	A
1	AA	1834	U
1	AA	1839	G
1	AA	1840	G
1	AA	1847	A
1	AA	1848	A
1	AA	1852	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1853	A
1	AA	1857	G
1	AA	1858	G
1	AA	1878	G
1	AA	1880	C
1	AA	1881	C
1	AA	1884	A
1	AA	1901	A
1	AA	1903	G
1	AA	1904	G
1	AA	1905	C
1	AA	1907	G
1	AA	1911	U
1	AA	1912	A
1	AA	1913	A
1	AA	1914	C
1	AA	1915	U
1	AA	1916	A
1	AA	1917	U
1	AA	1919	A
1	AA	1920	C
1	AA	1921	G
1	AA	1922	G
1	AA	1924	C
1	AA	1927	A
1	AA	1929	G
1	AA	1930	G
1	AA	1931	U
1	AA	1932	A
1	AA	1934	C
1	AA	1936	A
1	AA	1937	A
1	AA	1938	A
1	AA	1939	U
1	AA	1940	U
1	AA	1941	C
1	AA	1942	C
1	AA	1943	U
1	AA	1944	U
1	AA	1945	G
1	AA	1946	U
1	AA	1953	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1954	G
1	AA	1955	U
1	AA	1956	U
1	AA	1958	C
1	AA	1962	C
1	AA	1964	G
1	AA	1965	C
1	AA	1966	A
1	AA	1967	C
1	AA	1968	G
1	AA	1970	A
1	AA	1971	A
1	AA	1972	A
1	AA	1977	A
1	AA	1978	A
1	AA	1981	A
1	AA	1982	C
1	AA	1989	G
1	AA	1992	G
1	AA	1993	U
1	AA	1995	U
1	AA	1996	C
1	AA	1997	G
1	AA	2000	G
1	AA	2005	A
1	AA	2014	A
1	AA	2015	A
1	AA	2016	U
1	AA	2018	G
1	AA	2019	A
1	AA	2020	A
1	AA	2021	C
1	AA	2022	U
1	AA	2023	G
1	AA	2030	A
1	AA	2031	A
1	AA	2032	G
1	AA	2033	A
1	AA	2034	U
1	AA	2035	G
1	AA	2041	U
1	AA	2043	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2044	C
1	AA	2048	G
1	AA	2050	C
1	AA	2051	A
1	AA	2052	G
1	AA	2055	C
1	AA	2056	G
1	AA	2060	A
1	AA	2061	G
1	AA	2062	A
1	AA	2063	C
1	AA	2064	C
1	AA	2068	U
1	AA	2069	G
1	AA	2073	C
1	AA	2074	U
1	AA	2075	U
1	AA	2076	U
1	AA	2077	A
1	AA	2080	G
1	AA	2092	U
1	AA	2093	G
1	AA	2094	G
1	AA	2110	G
1	AA	2111	C
1	AA	2114	A
1	AA	2116	G
1	AA	2117	A
1	AA	2119	A
1	AA	2120	G
1	AA	2123	G
1	AA	2126	A
1	AA	2127	G
1	AA	2132	U
1	AA	2133	G
1	AA	2134	A
1	AA	2135	A
1	AA	2136	C
1	AA	2144	U
1	AA	2148	G
1	AA	2156	G
1	AA	2157	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2158	A
1	AA	2159	G
1	AA	2165	G
1	AA	2172	U
1	AA	2173	A
1	AA	2185	C
1	AA	2194	G
1	AA	2195	C
1	AA	2196	C
1	AA	2197	U
1	AA	2198	A
1	AA	2205	C
1	AA	2206	C
1	AA	2208	U
1	AA	2209	C
1	AA	2210	G
1	AA	2211	G
1	AA	2212	A
1	AA	2213	U
1	AA	2215	G
1	AA	2224	G
1	AA	2225	A
1	AA	2226	C
1	AA	2227	A
1	AA	2228	G
1	AA	2238	G
1	AA	2239	G
1	AA	2240	C
1	AA	2241	A
1	AA	2245	U
1	AA	2250	G
1	AA	2251	G
1	AA	2254	C
1	AA	2257	U
1	AA	2258	C
1	AA	2265	U
1	AA	2266	A
1	AA	2267	A
1	AA	2268	A
1	AA	2269	A
1	AA	2274	A
1	AA	2275	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2276	G
1	AA	2278	A
1	AA	2281	C
1	AA	2283	C
1	AA	2284	C
1	AA	2286	A
1	AA	2287	A
1	AA	2288	A
1	AA	2289	G
1	AA	2290	G
1	AA	2291	U
1	AA	2297	C
1	AA	2305	A
1	AA	2306	C
1	AA	2307	G
1	AA	2308	G
1	AA	2309	A
1	AA	2310	A
1	AA	2311	A
1	AA	2312	U
1	AA	2316	C
1	AA	2318	G
1	AA	2319	G
1	AA	2320	A
1	AA	2321	G
1	AA	2322	A
1	AA	2323	G
1	AA	2325	G
1	AA	2327	A
1	AA	2333	A
1	AA	2334	G
1	AA	2337	G
1	AA	2344	U
1	AA	2345	G
1	AA	2346	A
1	AA	2347	C
1	AA	2349	G
1	AA	2350	C
1	AA	2351	G
1	AA	2356	C
1	AA	2357	U
1	AA	2358	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2360	A
1	AA	2361	A
1	AA	2362	G
1	AA	2372	G
1	AA	2373	G
1	AA	2374	C
1	AA	2377	A
1	AA	2379	G
1	AA	2382	G
1	AA	2383	G
1	AA	2384	G
1	AA	2385	C
1	AA	2387	U
1	AA	2389	G
1	AA	2390	U
1	AA	2393	A
1	AA	2402	C
1	AA	2403	C
1	AA	2406	U
1	AA	2407	G
1	AA	2416	C
1	AA	2417	C
1	AA	2423	U
1	AA	2424	C
1	AA	2425	A
1	AA	2426	A
1	AA	2427	C
1	AA	2428	G
1	AA	2429	G
1	AA	2430	A
1	AA	2431	U
1	AA	2432	A
1	AA	2433	A
1	AA	2434	A
1	AA	2435	A
1	AA	2437	U
1	AA	2439	A
1	AA	2440	C
1	AA	2441	C
1	AA	2444	G
1	AA	2445	G
1	AA	2447	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2448	A
1	AA	2449	U
1	AA	2460	U
1	AA	2469	A
1	AA	2475	C
1	AA	2476	A
1	AA	2480	C
1	AA	2490	G
1	AA	2491	U
1	AA	2492	U
1	AA	2493	U
1	AA	2496	C
1	AA	2497	A
1	AA	2498	C
1	AA	2499	C
1	AA	2500	U
1	AA	2501	C
1	AA	2502	G
1	AA	2503	A
1	AA	2504	U
1	AA	2505	G
1	AA	2510	C
1	AA	2513	G
1	AA	2518	A
1	AA	2519	U
1	AA	2520	C
1	AA	2523	G
1	AA	2526	G
1	AA	2527	C
1	AA	2529	G
1	AA	2531	A
1	AA	2532	G
1	AA	2535	G
1	AA	2539	C
1	AA	2542	A
1	AA	2543	G
1	AA	2547	U
1	AA	2548	G
1	AA	2551	C
1	AA	2554	U
1	AA	2555	U
1	AA	2556	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2563	U
1	AA	2566	A
1	AA	2567	G
1	AA	2572	A
1	AA	2573	C
1	AA	2575	C
1	AA	2576	G
1	AA	2577	A
1	AA	2578	G
1	AA	2580	U
1	AA	2582	G
1	AA	2585	U
1	AA	2586	C
1	AA	2593	U
1	AA	2602	A
1	AA	2603	G
1	AA	2606	C
1	AA	2609	U
1	AA	2610	C
1	AA	2611	U
1	AA	2613	U
1	AA	2614	A
1	AA	2615	U
1	AA	2616	C
1	AA	2617	C
1	AA	2620	C
1	AA	2625	G
1	AA	2626	C
1	AA	2628	C
1	AA	2629	A
1	AA	2630	G
1	AA	2637	U
1	AA	2638	G
1	AA	2640	G
1	AA	2644	G
1	AA	2645	G
1	AA	2646	C
1	AA	2648	C
1	AA	2650	U
1	AA	2651	C
1	AA	2652	C
1	AA	2653	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2654	A
1	AA	2656	U
1	AA	2657	A
1	AA	2658	C
1	AA	2659	G
1	AA	2662	A
1	AA	2663	G
1	AA	2664	G
1	AA	2667	C
1	AA	2668	G
1	AA	2669	G
1	AA	2670	A
1	AA	2671	A
1	AA	2673	G
1	AA	2674	G
1	AA	2675	A
1	AA	2676	C
1	AA	2682	U
1	AA	2683	C
1	AA	2685	G
1	AA	2689	U
1	AA	2690	C
1	AA	2691	C
1	AA	2699	C
1	AA	2701	C
1	AA	2702	U
1	AA	2704	C
1	AA	2706	G
1	AA	2708	G
1	AA	2709	G
1	AA	2710	C
1	AA	2711	A
1	AA	2712	U
1	AA	2712(A)	A
1	AA	2714	G
1	AA	2715	C
1	AA	2717	G
1	AA	2719	G
1	AA	2720	U
1	AA	2725	A
1	AA	2726	U
1	AA	2727	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2732	G
1	AA	2733	A
1	AA	2734	A
1	AA	2748	A
1	AA	2749	A
1	AA	2750	A
1	AA	2751	G
1	AA	2754	U
1	AA	2756	U
1	AA	2757	A
1	AA	2758	A
1	AA	2766	G
1	AA	2772	C
1	AA	2777	G
1	AA	2778	A
1	AA	2779	U
1	AA	2780	G
1	AA	2781	A
1	AA	2782	G
1	AA	2783	G
1	AA	2787	C
1	AA	2789	C
1	AA	2790	A
1	AA	2791	C
1	AA	2794	C
1	AA	2797	U
1	AA	2798	C
1	AA	2799	A
1	AA	2801	A
1	AA	2802	G
1	AA	2803	C
1	AA	2804	C
1	AA	2805	G
1	AA	2807	G
1	AA	2808	U
1	AA	2809	A
1	AA	2810	A
1	AA	2812	G
1	AA	2814	C
1	AA	2815	C
1	AA	2820	A
1	AA	2821	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2822	G
1	AA	2823	A
1	AA	2832	U
1	AA	2833	G
1	AA	2834	G
1	AA	2835	A
1	AA	2836	U
1	AA	2843	G
1	AA	2844	G
1	AA	2845	G
1	AA	2847	U
1	AA	2849	U
1	AA	2850	A
1	AA	2851	A
1	AA	2852	G
1	AA	2858	C
1	AA	2861	G
1	AA	2866	U
1	AA	2867	G
1	AA	2868	A
1	AA	2872	G
1	AA	2874	C
1	AA	2877	G
1	AA	2878	U
1	AA	2879	C
1	AA	2880	C
1	AA	2883	A
1	AA	2891	G
1	AA	2892	A
1	AA	2893	G
1	AA	2899	G
2	AB	0	A
2	AB	1	U
2	AB	2	C
2	AB	3	C
2	AB	5	C
2	AB	6	C
2	AB	8	U
2	AB	12	C
2	AB	13	A
2	AB	15	A
2	AB	16	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AB	25	A
2	AB	32	C
2	AB	35	U
2	AB	36	C
2	AB	41	U
2	AB	42	C
2	AB	45	A
2	AB	46	A
2	AB	51	G
2	AB	52	A
2	AB	54	G
2	AB	57	A
2	AB	66	A
2	AB	67	G
2	AB	69	G
2	AB	73	A
2	AB	74	U
2	AB	75	G
2	AB	83	G
2	AB	85	G
2	AB	87	G
2	AB	88	C
2	AB	89	G
2	AB	90	C
2	AB	99	A
2	AB	101	A
2	AB	103	U
2	AB	105	G
2	AB	109	G
2	AB	111	U
2	AB	116	G
2	AB	117	G
2	AB	118	G
2	AB	119	A
2	AB	120	U
34	BA	6	G
34	BA	8	A
34	BA	9	G
34	BA	14	U
34	BA	19	C
34	BA	20	U
34	BA	31	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	32	A
34	BA	39	G
34	BA	44	G
34	BA	45	U
34	BA	48	C
34	BA	50	A
34	BA	51	A
34	BA	52	G
34	BA	61	G
34	BA	65	U
34	BA	66	G
34	BA	78	G
34	BA	82	U
34	BA	89	U
34	BA	101	A
34	BA	103	C
34	BA	108	G
34	BA	110	C
34	BA	115	G
34	BA	116	A
34	BA	120	A
34	BA	121	C
34	BA	122	G
34	BA	124	G
34	BA	127	G
34	BA	129(A)	G
34	BA	130	A
34	BA	131	C
34	BA	132	C
34	BA	134	A
34	BA	163	C
34	BA	182	U
34	BA	188	U
34	BA	189	U
34	BA	190	G
34	BA	191(A)	G
34	BA	195	A
34	BA	197	A
34	BA	198	G
34	BA	209	U
34	BA	210	U
34	BA	216	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	236	G
34	BA	243	A
34	BA	244	U
34	BA	245	C
34	BA	247	G
34	BA	251	G
34	BA	252	U
34	BA	253	U
34	BA	262	A
34	BA	264	U
34	BA	265	G
34	BA	266	G
34	BA	267	C
34	BA	270	A
34	BA	275	G
34	BA	279	A
34	BA	280	C
34	BA	281	G
34	BA	282	A
34	BA	289	G
34	BA	293	G
34	BA	295	C
34	BA	296	U
34	BA	306	G
34	BA	308	C
34	BA	309	G
34	BA	313	A
34	BA	314	C
34	BA	315	A
34	BA	316	G
34	BA	326	G
34	BA	328	C
34	BA	329	A
34	BA	330	C
34	BA	332	G
34	BA	336	C
34	BA	345	C
34	BA	346	G
34	BA	348	G
34	BA	351	G
34	BA	352	C
34	BA	353	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	354	G
34	BA	364	A
34	BA	367	U
34	BA	368	U
34	BA	372	C
34	BA	373	A
34	BA	378	G
34	BA	379	C
34	BA	382	A
34	BA	383	A
34	BA	388	G
34	BA	389	A
34	BA	390	C
34	BA	392	G
34	BA	397	A
34	BA	398	C
34	BA	410	G
34	BA	412	A
34	BA	413	G
34	BA	414	A
34	BA	422	C
34	BA	423	G
34	BA	428	G
34	BA	429	U
34	BA	430	A
34	BA	438	G
34	BA	439	A
34	BA	451	A
34	BA	452	A
34	BA	454	C
34	BA	465	A
34	BA	466	C
34	BA	467	G
34	BA	474	G
34	BA	481	G
34	BA	482	A
34	BA	483	C
34	BA	484	G
34	BA	485	G
34	BA	486	U
34	BA	487	A
34	BA	496	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	497	U
34	BA	500	G
34	BA	508	C
34	BA	509	A
34	BA	511	C
34	BA	518	C
34	BA	519	C
34	BA	521	G
34	BA	522	C
34	BA	524	G
34	BA	527	G
34	BA	528	C
34	BA	530	G
34	BA	531	U
34	BA	532	A
34	BA	533	A
34	BA	534	U
34	BA	535	A
34	BA	536	C
34	BA	541	G
34	BA	548	G
34	BA	553	A
34	BA	555	C
34	BA	559	A
34	BA	560	U
34	BA	561	U
34	BA	563	A
34	BA	565	U
34	BA	566	G
34	BA	567	G
34	BA	572	A
34	BA	573	A
34	BA	575	G
34	BA	577	G
34	BA	579	G
34	BA	585	G
34	BA	595	G
34	BA	596	C
34	BA	598	U
34	BA	607	A
34	BA	609	A
34	BA	623	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	642	A
34	BA	650	G
34	BA	653	A
34	BA	655	A
34	BA	665	A
34	BA	672	U
34	BA	673	G
34	BA	679	C
34	BA	687	A
34	BA	688	G
34	BA	690	G
34	BA	691	G
34	BA	693	G
34	BA	694	A
34	BA	697	U
34	BA	702	A
34	BA	703	G
34	BA	704	A
34	BA	718	G
34	BA	719	C
34	BA	721	G
34	BA	723	U
34	BA	724	G
34	BA	728	A
34	BA	730	G
34	BA	731	G
34	BA	733	A
34	BA	749	C
34	BA	752	G
34	BA	753	A
34	BA	754	C
34	BA	763	G
34	BA	764	C
34	BA	766	A
34	BA	776	G
34	BA	777	A
34	BA	781	A
34	BA	782	A
34	BA	785	G
34	BA	788	U
34	BA	790	A
34	BA	791	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	793	U
34	BA	794	A
34	BA	801	U
34	BA	812	C
34	BA	813	U
34	BA	815	A
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	820	U
34	BA	821	G
34	BA	828	A
34	BA	841	U
34	BA	843	U
34	BA	848	C
34	BA	854	G
34	BA	860	A
34	BA	865	A
34	BA	870	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	874	G
34	BA	884	U
34	BA	885	G
34	BA	889	A
34	BA	890	G
34	BA	891	U
34	BA	901	A
34	BA	902	G
34	BA	907	A
34	BA	910	C
34	BA	913	A
34	BA	914	A
34	BA	917	G
34	BA	919	A
34	BA	920	U
34	BA	926	G
34	BA	927	G
34	BA	932	C
34	BA	934	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	935	A
34	BA	945	G
34	BA	949	A
34	BA	950	U
34	BA	956	U
34	BA	958	A
34	BA	960	U
34	BA	961	U
34	BA	963	G
34	BA	965	A
34	BA	966	G
34	BA	967	C
34	BA	968	A
34	BA	969	A
34	BA	971	G
34	BA	972	C
34	BA	974	A
34	BA	975	A
34	BA	976	G
34	BA	977	A
34	BA	980	C
34	BA	982	U
34	BA	991	U
34	BA	993	G
34	BA	994	A
34	BA	995	C
34	BA	997	U
34	BA	998	G
34	BA	1000	A
34	BA	1001	G
34	BA	1002	G
34	BA	1003	G
34	BA	1004	A
34	BA	1005	A
34	BA	1006	C
34	BA	1007	C
34	BA	1016	A
34	BA	1023	G
34	BA	1024	G
34	BA	1026	G
34	BA	1027	C
34	BA	1029	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1049	U
34	BA	1050	G
34	BA	1054	C
34	BA	1056	U
34	BA	1057	G
34	BA	1063	C
34	BA	1064	G
34	BA	1065	U
34	BA	1066	C
34	BA	1067	A
34	BA	1068	G
34	BA	1081	G
34	BA	1084	G
34	BA	1085	U
34	BA	1086	U
34	BA	1089	G
34	BA	1094	G
34	BA	1096	C
34	BA	1097	C
34	BA	1100	C
34	BA	1101	A
34	BA	1102	A
34	BA	1103	C
34	BA	1106	G
34	BA	1107	C
34	BA	1108	G
34	BA	1109	C
34	BA	1111	A
34	BA	1112	C
34	BA	1115	C
34	BA	1118	C
34	BA	1123	A
34	BA	1125	U
34	BA	1126	U
34	BA	1129	C
34	BA	1130	A
34	BA	1131	G
34	BA	1132	C
34	BA	1136	U
34	BA	1138	G
34	BA	1139	G
34	BA	1140	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1145	C
34	BA	1146	A
34	BA	1147	C
34	BA	1148	U
34	BA	1152	A
34	BA	1153	C
34	BA	1154	G
34	BA	1157	A
34	BA	1158	C
34	BA	1159	U
34	BA	1161	C
34	BA	1162	C
34	BA	1164	G
34	BA	1174	G
34	BA	1182	G
34	BA	1183	A
34	BA	1184	G
34	BA	1185	G
34	BA	1188	A
34	BA	1189	C
34	BA	1190	G
34	BA	1195	C
34	BA	1196	U
34	BA	1197	G
34	BA	1200	C
34	BA	1201	A
34	BA	1202	G
34	BA	1203	C
34	BA	1211	U
34	BA	1212	U
34	BA	1213	A
34	BA	1215	G
34	BA	1225	A
34	BA	1226	C
34	BA	1227	A
34	BA	1229	A
34	BA	1240	U
34	BA	1241	G
34	BA	1249	C
34	BA	1256	A
34	BA	1257	U
34	BA	1263	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1269	A
34	BA	1270	C
34	BA	1278	U
34	BA	1279	A
34	BA	1280	A
34	BA	1281	U
34	BA	1282	C
34	BA	1283	G
34	BA	1285	A
34	BA	1286	A
34	BA	1287	A
34	BA	1289	A
34	BA	1292	U
34	BA	1297	C
34	BA	1298	C
34	BA	1301	U
34	BA	1302	U
34	BA	1303	C
34	BA	1305	G
34	BA	1317	C
34	BA	1318	A
34	BA	1319	A
34	BA	1320	C
34	BA	1322	C
34	BA	1323	G
34	BA	1331	G
34	BA	1332	A
34	BA	1333	A
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G
34	BA	1348	U
34	BA	1353	G
34	BA	1362(A)	C
34	BA	1363	A
34	BA	1364	U
34	BA	1365	G
34	BA	1375	A
34	BA	1378	C
34	BA	1379	G
34	BA	1381	U
34	BA	1393	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1394	A
34	BA	1395	C
34	BA	1396	A
34	BA	1397	C
34	BA	1398	A
34	BA	1399	C
34	BA	1400	C
34	BA	1401	G
34	BA	1404	C
34	BA	1413	A
34	BA	1419	G
34	BA	1430	C
34	BA	1431	C
34	BA	1432	G
34	BA	1435	G
34	BA	1439	C
34	BA	1440	C
34	BA	1442	G
34	BA	1443	G
34	BA	1446	A
34	BA	1447	G
34	BA	1449	C
34	BA	1450	U
34	BA	1451	A
34	BA	1454	G
34	BA	1455	G
34	BA	1459	C
34	BA	1461	G
34	BA	1462	G
34	BA	1463	C
34	BA	1464	G
34	BA	1465	C
34	BA	1467	G
34	BA	1469	G
34	BA	1481	U
34	BA	1484	C
34	BA	1487	G
34	BA	1489	G
34	BA	1491	G
34	BA	1492	A
34	BA	1494	G
34	BA	1495	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1496	C
34	BA	1500	A
34	BA	1502	A
34	BA	1503	A
34	BA	1504	G
34	BA	1505	G
34	BA	1506	U
34	BA	1507	A
34	BA	1517	G
34	BA	1520	G
34	BA	1527	C
34	BA	1530	G
34	BA	1531	A
34	BA	1532	U
34	BA	1534	A

All (396) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	13	A
1	AA	60	G
1	AA	67	U
1	AA	70	G
1	AA	71	A
1	AA	83	G
1	AA	90	U
1	AA	119	A
1	AA	125	G
1	AA	196	A
1	AA	199	A
1	AA	204	A
1	AA	205	G
1	AA	215	G
1	AA	221	A
1	AA	227	A
1	AA	251	A
1	AA	270(B)	A
1	AA	270(L)	U
1	AA	270(M)	U
1	AA	270(Z)	U
1	AA	271(B)	G
1	AA	280	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	283	A
1	AA	311	A
1	AA	323	G
1	AA	329	G
1	AA	331	A
1	AA	332	A
1	AA	351	G
1	AA	371	A
1	AA	403	U
1	AA	442	G
1	AA	455	C
1	AA	470	A
1	AA	503	A
1	AA	504	U
1	AA	506	G
1	AA	508	G
1	AA	526	A
1	AA	530	G
1	AA	559	G
1	AA	573	G
1	AA	574	C
1	AA	587	C
1	AA	602	G
1	AA	616	A
1	AA	620	G
1	AA	637	A
1	AA	643	A
1	AA	645	C
1	AA	669	G
1	AA	670	A
1	AA	685	A
1	AA	686	G
1	AA	730	C
1	AA	740	U
1	AA	745	G
1	AA	746	A
1	AA	747	U
1	AA	750	A
1	AA	762	U
1	AA	773	U
1	AA	774	A
1	AA	776	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	782	A
1	AA	783	A
1	AA	785	G
1	AA	788	A
1	AA	789	A
1	AA	800	A
1	AA	801	G
1	AA	811	U
1	AA	829	A
1	AA	830	G
1	AA	846	C
1	AA	858	U
1	AA	888	C
1	AA	897	C
1	AA	930	U
1	AA	944	G
1	AA	945	A
1	AA	957	A
1	AA	958	U
1	AA	960	A
1	AA	961	C
1	AA	973	A
1	AA	974(A)	C
1	AA	989	G
1	AA	1008	C
1	AA	1011	G
1	AA	1022	G
1	AA	1024	G
1	AA	1038	C
1	AA	1047	G
1	AA	1062	G
1	AA	1069	A
1	AA	1085	A
1	AA	1100	C
1	AA	1126	A
1	AA	1130	U
1	AA	1131	G
1	AA	1154	G
1	AA	1178	C
1	AA	1179	C
1	AA	1183	G
1	AA	1204	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1210	A
1	AA	1212	G
1	AA	1221	C
1	AA	1237	A
1	AA	1241	A
1	AA	1247	A
1	AA	1248	G
1	AA	1250	G
1	AA	1253	A
1	AA	1267	U
1	AA	1272	A
1	AA	1288	U
1	AA	1300	U
1	AA	1302	A
1	AA	1323	U
1	AA	1342	A
1	AA	1349	A
1	AA	1378	A
1	AA	1379	A
1	AA	1406	U
1	AA	1420	U
1	AA	1427	A
1	AA	1428	C
1	AA	1444(A)	A
1	AA	1477	A
1	AA	1489	U
1	AA	1515	C
1	AA	1554	A
1	AA	1558	A
1	AA	1566	A
1	AA	1568	G
1	AA	1572	A
1	AA	1585	C
1	AA	1603	A
1	AA	1608	A
1	AA	1610	A
1	AA	1625	C
1	AA	1626	G
1	AA	1634	A
1	AA	1647	G
1	AA	1650	G
1	AA	1693	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1694	C
1	AA	1698	A
1	AA	1699	G
1	AA	1727	U
1	AA	1758	G
1	AA	1778	U
1	AA	1780	A
1	AA	1784	A
1	AA	1791	A
1	AA	1800	C
1	AA	1801	G
1	AA	1819	A
1	AA	1820	U
1	AA	1828	G
1	AA	1919	A
1	AA	1920	C
1	AA	1936	A
1	AA	1937	A
1	AA	1938	A
1	AA	1940	U
1	AA	1943	U
1	AA	1962	C
1	AA	1964	G
1	AA	1966	A
1	AA	1970	A
1	AA	1977	A
1	AA	1980	G
1	AA	1981	A
1	AA	1992	G
1	AA	1996	C
1	AA	2017	U
1	AA	2021	C
1	AA	2022	U
1	AA	2030	A
1	AA	2032	G
1	AA	2033	A
1	AA	2047	U
1	AA	2049	G
1	AA	2051	A
1	AA	2055	C
1	AA	2073	C
1	AA	2076	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2110	G
1	AA	2111	C
1	AA	2118	U
1	AA	2126	A
1	AA	2157	G
1	AA	2158	A
1	AA	2171	A
1	AA	2172	U
1	AA	2210	G
1	AA	2213	U
1	AA	2225	A
1	AA	2240	C
1	AA	2275	C
1	AA	2282	G
1	AA	2319	G
1	AA	2324	C
1	AA	2345	G
1	AA	2350	C
1	AA	2384	G
1	AA	2392	A
1	AA	2416	C
1	AA	2422	A
1	AA	2427	C
1	AA	2428	G
1	AA	2436	G
1	AA	2439	A
1	AA	2447	G
1	AA	2490	G
1	AA	2491	U
1	AA	2497	A
1	AA	2500	U
1	AA	2501	C
1	AA	2503	A
1	AA	2517	C
1	AA	2519	U
1	AA	2542	A
1	AA	2571	C
1	AA	2572	A
1	AA	2602	A
1	AA	2609	U
1	AA	2610	C
1	AA	2613	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	2615	U
1	AA	2637	U
1	AA	2652	C
1	AA	2688	U
1	AA	2689	U
1	AA	2690	C
1	AA	2705	A
1	AA	2707	G
1	AA	2726	U
1	AA	2755	C
1	AA	2756	U
1	AA	2776	A
1	AA	2777	G
1	AA	2778	A
1	AA	2790	A
1	AA	2835	A
1	AA	2848	G
1	AA	2849	U
1	AA	2866	U
1	AA	2879	C
2	AB	7	G
2	AB	15	A
2	AB	56	G
34	BA	5	U
34	BA	8	A
34	BA	30	U
34	BA	31	G
34	BA	47	C
34	BA	51	A
34	BA	60	A
34	BA	65	U
34	BA	88	C
34	BA	99	C
34	BA	109	A
34	BA	115	G
34	BA	119	A
34	BA	129(A)	G
34	BA	181	G
34	BA	190	G
34	BA	208	U
34	BA	210	U
34	BA	243	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	244	U
34	BA	246	A
34	BA	250	A
34	BA	251	G
34	BA	266	G
34	BA	274	A
34	BA	279	A
34	BA	280	C
34	BA	281	G
34	BA	305	G
34	BA	308	C
34	BA	327	A
34	BA	328	C
34	BA	329	A
34	BA	344	A
34	BA	345	C
34	BA	351	G
34	BA	366	C
34	BA	367	U
34	BA	372	C
34	BA	413	G
34	BA	428	G
34	BA	429	U
34	BA	451	A
34	BA	484	G
34	BA	495	A
34	BA	496	A
34	BA	498	A
34	BA	508	C
34	BA	518	C
34	BA	531	U
34	BA	535	A
34	BA	547	A
34	BA	559	A
34	BA	560	U
34	BA	562	C
34	BA	563	A
34	BA	566	G
34	BA	576	G
34	BA	652	U
34	BA	686	U
34	BA	687	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	701	C
34	BA	702	A
34	BA	703	G
34	BA	717	C
34	BA	721	G
34	BA	723	U
34	BA	748	C
34	BA	753	A
34	BA	781	A
34	BA	792	A
34	BA	793	U
34	BA	812	C
34	BA	815	A
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	820	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	889	A
34	BA	890	G
34	BA	901	A
34	BA	913	A
34	BA	918	A
34	BA	960	U
34	BA	965	A
34	BA	968	A
34	BA	974	A
34	BA	975	A
34	BA	992	U
34	BA	993	G
34	BA	1004	A
34	BA	1049	U
34	BA	1055	A
34	BA	1065	U
34	BA	1067	A
34	BA	1084	G
34	BA	1085	U
34	BA	1101	A
34	BA	1129	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1145	C
34	BA	1157	A
34	BA	1182	G
34	BA	1183	A
34	BA	1196	U
34	BA	1212	U
34	BA	1214	C
34	BA	1224	G
34	BA	1226	C
34	BA	1239	A
34	BA	1240	U
34	BA	1285	A
34	BA	1297	C
34	BA	1300	G
34	BA	1302	U
34	BA	1317	C
34	BA	1322	C
34	BA	1331	G
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G
34	BA	1363	A
34	BA	1364	U
34	BA	1377	A
34	BA	1394	A
34	BA	1399	C
34	BA	1400	C
34	BA	1442	G
34	BA	1443	G
34	BA	1446	A
34	BA	1468	A
34	BA	1494	G
34	BA	1504	G
34	BA	1506	U
34	BA	1528	U
34	BA	1529	G
34	BA	1531	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

3 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
56	NMY	AA	3001	-	43,45,45	0.49	0	62,67,67	1.22	7 (11%)
56	NMY	BA	1601	-	43,45,45	0.48	0	62,67,67	1.07	6 (9%)
57	GCP	CA	701	-	32,34,34	1.46	7 (21%)	49,54,54	1.82	8 (16%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	NMY	AA	3001	-	-	4/18/94/94	1/4/4/4
56	NMY	BA	1601	-	-	5/18/94/94	0/4/4/4
57	GCP	CA	701	-	-	6/19/38/38	0/3/3/3

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	CA	701	GCP	C5-C4	3.21	1.47	1.38
57	CA	701	GCP	PG-O2G	2.90	1.61	1.55
57	CA	701	GCP	PG-O3G	2.89	1.61	1.55
57	CA	701	GCP	PB-O3A	2.72	1.61	1.58
57	CA	701	GCP	C6-N1	-2.39	1.34	1.38
57	CA	701	GCP	PB-O2B	2.07	1.61	1.56
57	CA	701	GCP	C5-N7	-2.02	1.35	1.39

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	CA	701	GCP	C5-C4-N3	-6.17	118.57	128.39
57	CA	701	GCP	C2-N3-C4	5.07	121.03	112.30
57	CA	701	GCP	N9-C4-N3	4.58	135.12	125.95
57	CA	701	GCP	PB-O3A-PA	-3.63	120.51	132.37
56	BA	1601	NMY	C13-C14-C15	3.49	106.30	102.10
56	AA	3001	NMY	C13-C14-C15	3.49	106.30	102.10
57	CA	701	GCP	C6-C5-N7	3.25	136.20	130.29
56	AA	3001	NMY	C18-O18-C15	-2.62	111.77	117.98
56	BA	1601	NMY	C1-O1-C10	-2.62	111.78	117.98
56	AA	3001	NMY	C13-O11-C11	-2.61	111.78	117.98
56	AA	3001	NMY	C1-O1-C10	-2.61	111.79	117.98
56	BA	1601	NMY	C18-O18-C15	-2.61	111.80	117.98
56	BA	1601	NMY	C13-O11-C11	-2.59	111.84	117.98
57	CA	701	GCP	C4-C5-N7	-2.58	106.57	110.67
57	CA	701	GCP	C3'-C2'-C1'	2.55	106.28	101.46
56	AA	3001	NMY	C9-C8-C7	2.42	115.17	111.02
56	BA	1601	NMY	O22-C22-C23	2.39	110.67	106.07
56	AA	3001	NMY	O22-C22-C23	2.39	110.66	106.07
56	BA	1601	NMY	O16-C13-C14	2.27	107.87	104.98
56	AA	3001	NMY	O16-C13-C14	2.24	107.83	104.98
57	CA	701	GCP	O6-C6-C5	-2.09	121.00	126.53

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
56	AA	3001	NMY	C19-C18-O18-C15
56	BA	1601	NMY	O5-C5-C6-N6
56	BA	1601	NMY	C14-C13-O11-C11
57	CA	701	GCP	PG-C3B-PB-O1B
57	CA	701	GCP	PG-C3B-PB-O2B
57	CA	701	GCP	PG-C3B-PB-O3A
57	CA	701	GCP	C5'-O5'-PA-O1A
56	BA	1601	NMY	O16-C16-C17-O17
56	BA	1601	NMY	C15-C16-C17-O17
56	AA	3001	NMY	O22-C18-O18-C15
56	BA	1601	NMY	O16-C13-O11-C11
56	AA	3001	NMY	O22-C22-C23-N19
57	CA	701	GCP	C5'-O5'-PA-O3A
56	AA	3001	NMY	C2-C1-O1-C10
57	CA	701	GCP	PB-C3B-PG-O1G

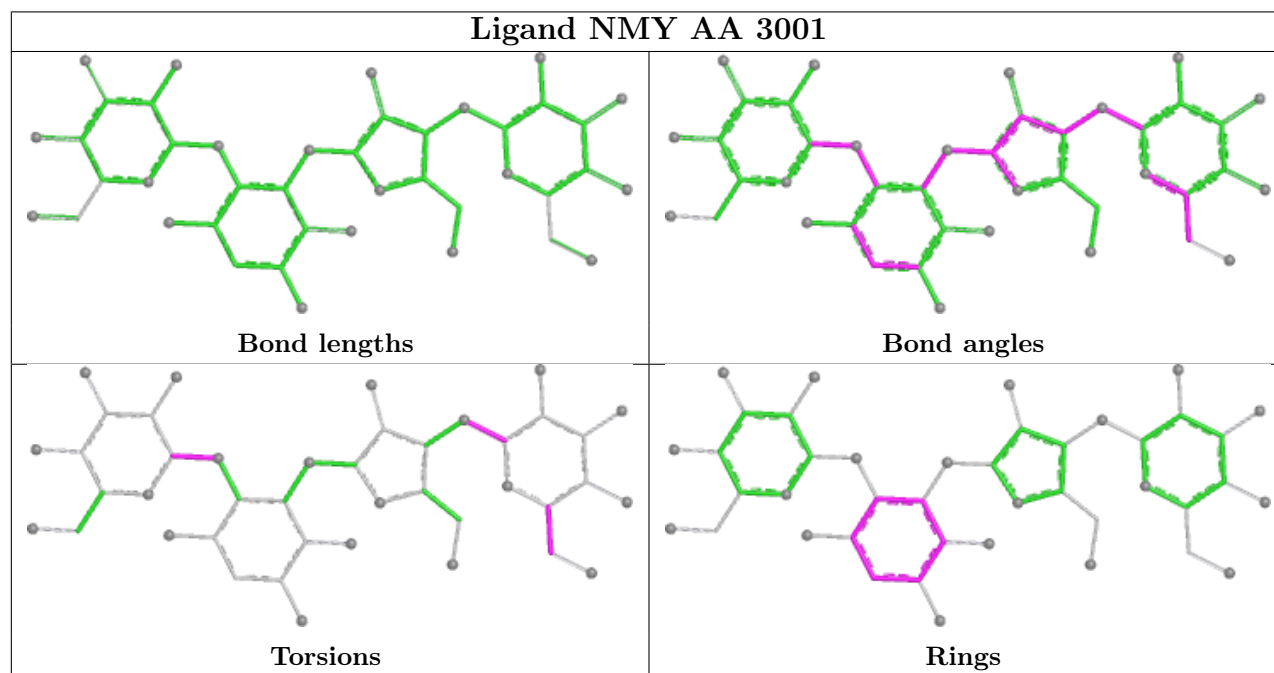
All (1) ring outliers are listed below:

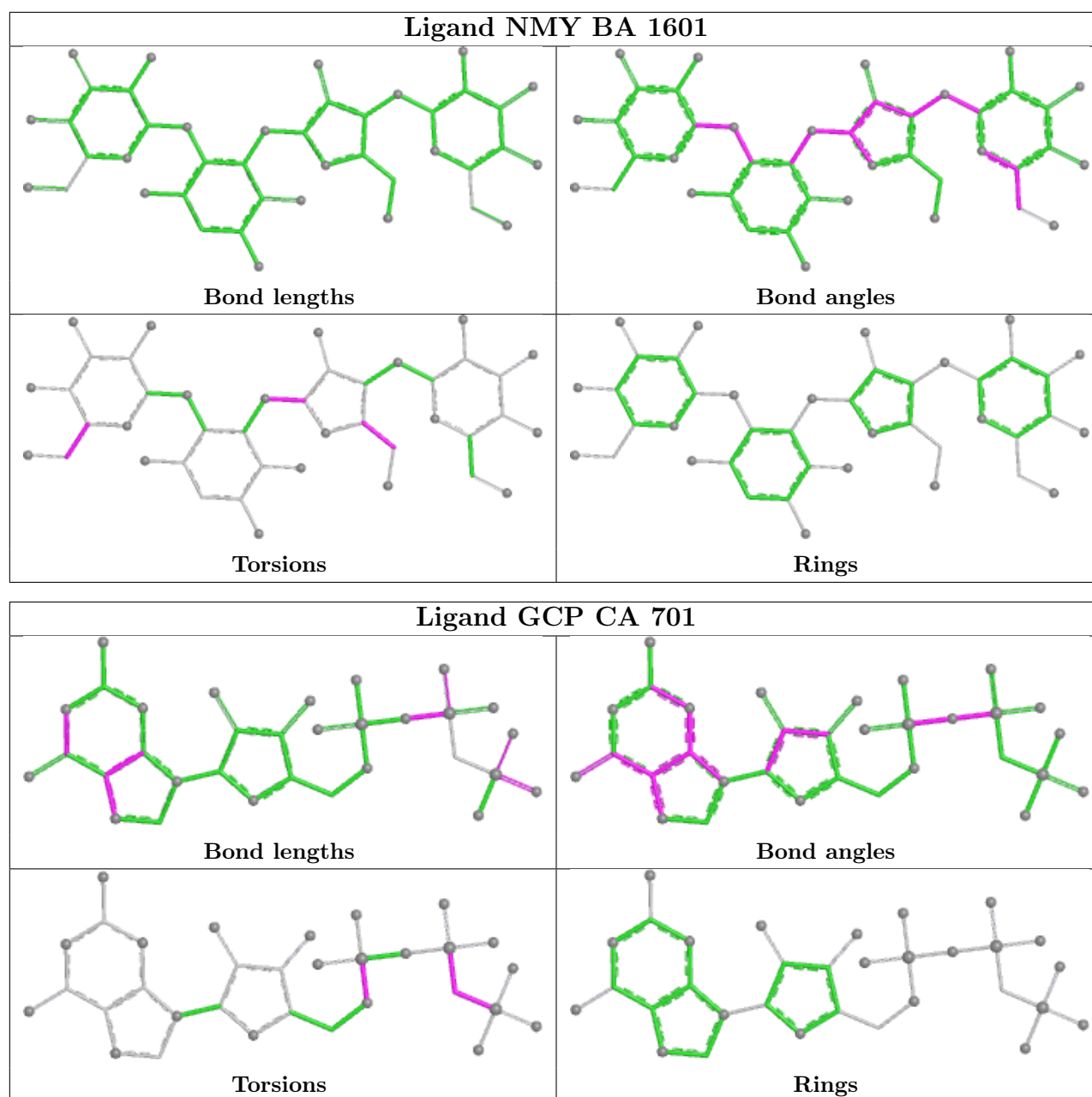
Mol	Chain	Res	Type	Atoms
56	AA	3001	NMY	C10-C11-C12-C7-C8-C9

3 monomers are involved in 73 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
56	AA	3001	NMY	19	0
56	BA	1601	NMY	15	0
57	CA	701	GCP	39	0

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





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
1	AA	11

Continued on next page...

Continued from previous page...

Mol	Chain	Number of breaks
33	Ag	3
34	BA	3
55	CA	2
9	AI	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Ag	30:UNK	C	123:UNK	N	31.39
1	CA	542:LYS	C	552:ASP	N	16.28
1	AA	164:U	O3'	171:G	P	7.69
1	AA	2893:G	O3'	2894:G	P	5.34
1	CA	277:THR	C	281:GLU	N	5.08
1	AA	1105:U	O3'	1106:G	P	4.46
1	BA	1308:U	O3'	1309:G	P	3.99
1	AA	884:C	O3'	885:C	P	3.55
1	Ag	153:UNK	C	154:UNK	N	3.23
1	Ag	323:UNK	C	324:UNK	N	3.05
1	AA	1073:A	O3'	1074:G	P	2.79
1	AA	883:G	O3'	884:C	P	2.68
1	AA	1033:U	O3'	1034:G	P	2.34
1	AA	882:G	O3'	883:G	P	2.22
1	BA	1167:A	O3'	1169:A	P	1.86
1	AA	2756:U	O3'	2757:A	P	1.77
1	AA	1203:G	O3'	1204:A	P	1.19
1	AI	153:LEU	C	154:GLY	N	1.11
1	BA	1317:C	O3'	1318:A	P	0.77
1	AA	1060:U	O3'	1061:U	P	0.64

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-6396. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

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

7 Map analysis ⓘ

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

7.1 Map-value distribution ⓘ

This section was not generated.

7.2 Volume estimate versus contour level ⓘ

This section was not generated.

7.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

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

9 Map-model fit

This section was not generated.