



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 09:36 AM UTC

PDB ID : 4V8O / pdb_00004v8o
Title : Crystal structure of the hybrid state of ribosome in complex with the guanosine triphosphatase release factor 3
Authors : Jin, H.; Kelley, A.C.; Ramakrishnan, V.
Deposited on : 2011-07-26
Resolution : 3.80 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

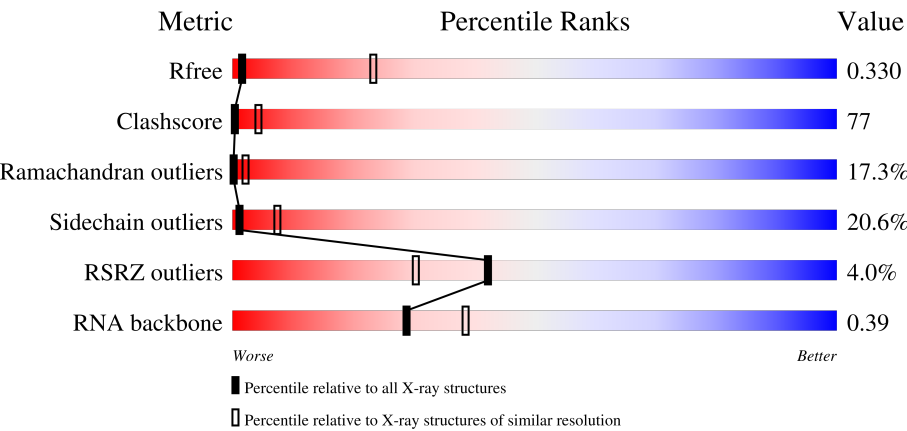
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 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.



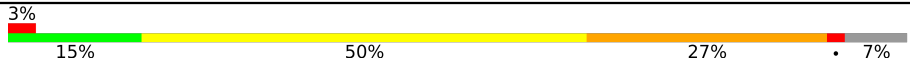
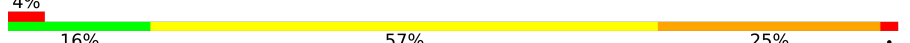
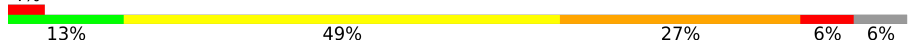
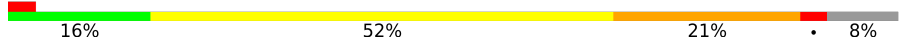
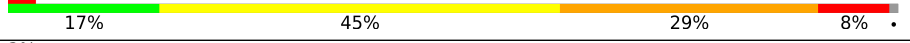
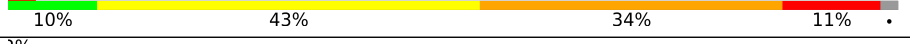
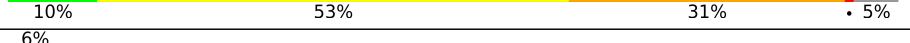
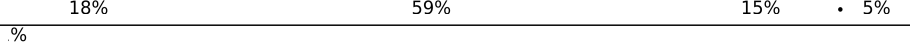
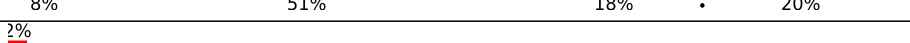
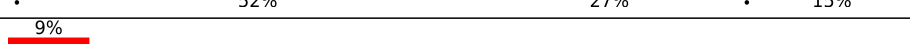
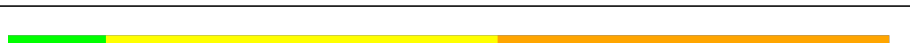
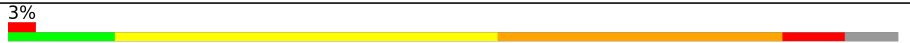
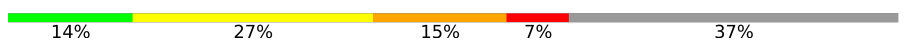
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1065 (3.96-3.64)
Clashscore	190562	1012 (3.94-3.66)
Ramachandran outliers	187476	1048 (3.96-3.64)
Sidechain outliers	187428	1043 (3.96-3.64)
RSRZ outliers	180081	1064 (3.96-3.64)
RNA backbone	3983	1007 (4.50-3.10)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	
2	AB	256	
3	AC	239	
4	AD	209	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
5	AE	162	
6	AF	101	
7	AG	156	
8	AH	138	
9	AI	128	
10	AJ	105	
11	AK	129	
12	AL	135	
13	AM	126	
14	AN	61	
15	AO	89	
16	AP	88	
17	AQ	105	
18	AR	88	
19	AS	93	
20	AT	106	
21	AU	27	
22	AV	77	
23	AX	9	
24	AY	529	
25	B0	85	
26	B1	98	
27	B2	72	
28	B3	60	
29	B4	71	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
30	B5	60	
31	B6	54	
32	B7	49	
33	B8	65	
34	B9	37	
35	BA	2915	
36	BB	122	
37	BC	229	
38	BD	276	
39	BE	206	
40	BF	210	
41	BG	182	
42	BH	180	
43	BJ	173	
44	BK	147	
45	BN	140	
46	BO	122	
47	BP	150	
48	BQ	141	
49	BR	118	
50	BS	112	
51	BT	146	
52	BU	118	
53	BV	101	
54	BW	113	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
55	BX	96	
56	BY	110	
57	BZ	206	

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
58	GCP	AY	1000	-	-	X	-

2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 151017 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 16S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AI	58	ARG	HIS	conflict	UNP P80374

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	1	MET	-	expression tag	UNP P17293
AL	2	VAL	-	expression tag	UNP P17293
AL	3	ALA	-	expression tag	UNP P17293
AL	4	LEU	-	expression tag	UNP P17293

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14 TYPE Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O		0	0	0
			574	367	112	95				

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a RNA chain called PE HYBRID STATE TRNA FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 23 is a RNA chain called MRNA 5'-R(*AP*AP*AP*AP*AP*AP*UP*GP*UP)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	9	Total	C	N	O	P	0	0	0
			192	88	39	57	8			

- Molecule 24 is a protein called PEPTIDE CHAIN RELEASE FACTOR 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	496	Total	C	N	O	S	0	0	0
			3934	2492	677	744	21			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	45	Total	C	N	O	S	0	0	1
			341	218	58	61	4			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 35 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2901	Total	C	N	O	P	0	0	0
			62477	27807	11683	20087	2900			

- Molecule 36 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	228	Total	C	N	O	S	0	0	0
			1742	1101	318	319	4			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BC	19	ILE	VAL	conflict	UNP Q5SLP7
BC	27	HIS	ARG	conflict	UNP Q5SLP7
BC	127	MET	LEU	conflict	UNP Q5SLP7

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	156	Total	C	N	O	S	0	0	1
			1189	752	222	214	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BJ	131	Total	C	N	O		0	0	1
			654	393	131	130				

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BK	141	Total	C	N	O		0	0	1
			701	420	141	140				

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BR	117	Total	C	N	O	S	0	0	0
			960	599	202	159				

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BS	99	Total	C	N	O	S	0	0	1
			771	486	155	130				

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	BX	93	Total	C	N	O	S	0	0	1
			726	471	132	123				

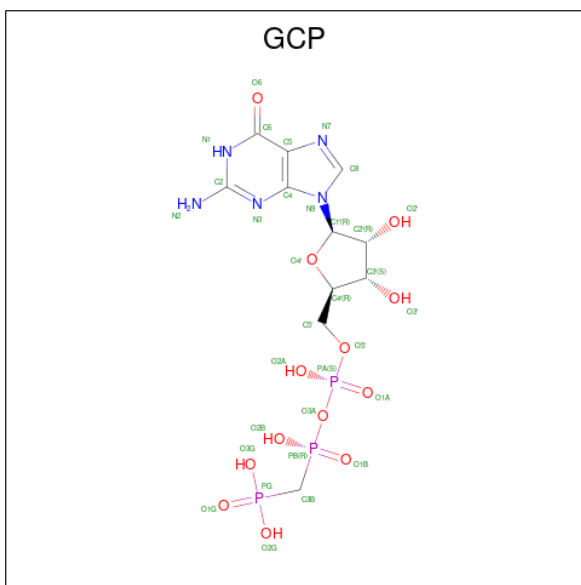
- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BZ	176	Total	C	N	O	S	0	0	0
			1403	897	252	252	2			

- Molecule 58 is PHOSPHOMETHYLPHOSPHONIC ACID GUANYLATE ESTER (CCD ID: GCP) (formula: $C_{11}H_{18}N_5O_{13}P_3$).

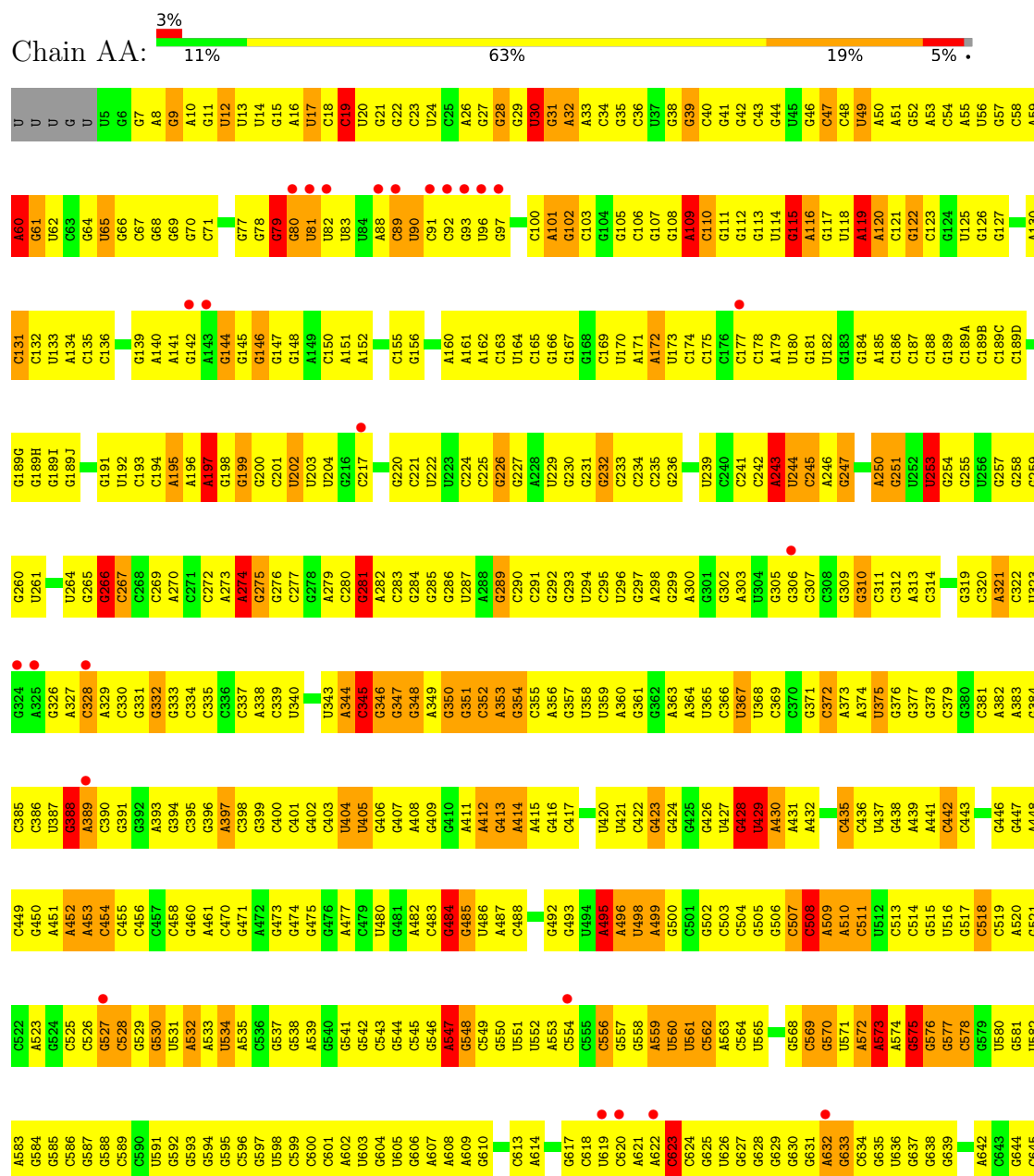


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
58	AY	1	Total	C	N	O	P	0	0
			32	11	5	13	3		

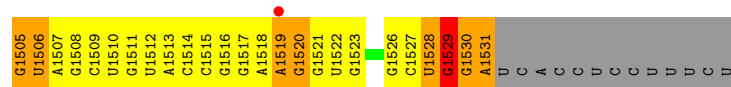
3 Residue-property plots

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 and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

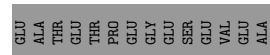
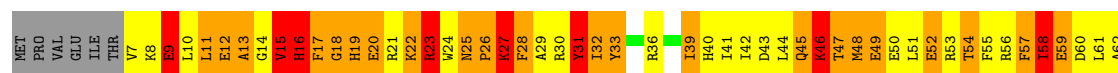
• Molecule 1: 16S rRNA



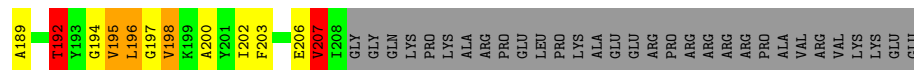
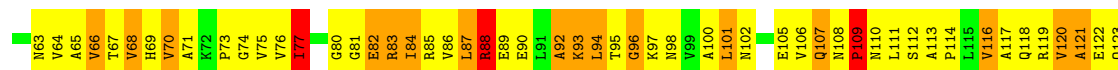
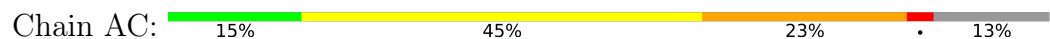
C1440	C1441	G1442	C1442A	A1442B	G1443	C1444	C1445	U1446	A1447	C1452	C1456	G1457	C1458	C1459	A1460	G1461	G1462	C1463	G1464	C1465	C1466	G1467	A1468	G1469	C1470	G1471	U1472	A1473	G1474	G1475	G1476	G1477	C1478	C1479	C1480	U1481	A1482	A1483	C1484	G1485	U1486	G1487	G1488	G1489	C1490	G1491	A1492	A1493	G1494	U1495	C1496	G1497	U1498	A1499	C1501	A1502	A1503																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
A1377	C1378	G1379	A1380	U1381	C1382	C1383	C1384	C1385	G1386	G1387	C1388	C1389	A1390	U1391	G1392	A1393	C1394	C1395	C1396	G1397	A1398	C1399	C1400	G1401	C1402	C1403	C1404	U1405	U1406	C1407	A1408	C1409	G1410	C1411	C1412	C1413	C1414	C1415	C1416	G1417	C1418	C1419	C1420	C1421	A1422	C1423	C1424	C1425	C1426	U1427	C1428	C1429	C1430	C1431	G1432	A1433	U1434	C1435	U1436	A1437	C1438	C1439																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
G1258	C1259	C1260	A1261	C1262	C1263	C1264	C1265	C1266	C1267	A1268	A1269	C1270	G1271	C1272	G1273	A1274	A1275	C1276	C1277	G1278	A1279	A1280	U1281	C1282	C1283	C1284	A1285	A1286	A1287	C1288	A1289	C1290	U1291	C1292	C1293	C1294	C1295	C1296	C1297	C1298	A1299	C1300	U1301	C1302	C1303	A1304	C1305	C1306	C1307	C1308	C1309	C1310	G1311	C1312	C1313	C1314	C1315	C1316	C1317																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A1196	U1197	G1198	U1199	C1200	A1201	G1202	C1203	A1204	C1205	G1206	A1268	C1207	C1208	G1209	C1210	U1211	C1212	A1213	C1214	C1215	G1216	A1217	C1218	U1219	G1220	C1221	C1222	C1223	G1224	A1225	C1226	A1288	C1228	A1289	C1229	U1291	C1292	C1293	C1294	C1295	C1296	C1297	C1298	A1299	C1300	U1301	C1302	C1303	A1304	C1305	C1306	C1307	C1308	C1309	C1310	G1311	C1312	C1313	C1314	C1315	C1316	C1317																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
G1134	U1135	U1136	C1137	C1138	C1139	C1140	C1141	G1142	C1143	C1144	C1145	A1146	C1147	C1148	C1149	U1150	A1151	A1152	C1153	G1154	C1155	A1156	A1157	C1158	U1159	G1160	C1161	C1162	C1163	C1164	C1165	A1166	A1167	C1168	U1169	C1170	C1171	C1172	G1173	C1174	C1175	A1176	C1177	C1178	U1179	A1180	G1181	C1182	A1183	C1184	C1185	C1186	C1187	A1188	C1189	C1190	A1191	C1192	C1193	G1194	C1195	C1196	C1197	C1198	C1199	A1200	C1201	C1202	C1203	C1204	C1205	C1206	C1207	C1208	C1209	C1210	C1211	C1212	C1213	C1214	C1215	C1216	C1217	C1218	C1219	C1220	C1221	C1222	C1223	C1224	C1225	C1226	C1227	C1228	C1229	C1230	C1231	C1232	C1233	C1234	C1235	C1236	C1237	C1238	C1239	C1240	C1241	C1242	C1243	C1244	C1245	C1246	C1247	C1248	C1249	C1250	C1251	C1252	C1253	C1254	C1255	C1256	C1257	C1258	C1259	C1260	C1261	C1262	C1263	C1264	C1265	C1266	C1267	C1268	C1269	C1270	C1271	C1272	C1273	C1274	C1275	C1276	C1277	C1278	C1279	C1280	C1281	C1282	C1283	C1284	C1285	C1286	C1287	C1288	C1289	C1290	C1291	C1292	C1293	C1294	C1295	C1296	C1297	C1298	C1299	C1300	C1301	C1302	C1303	C1304	C1305	C1306	C1307	C1308	C1309	C1310	C1311	C1312	C1313	C1314	C1315	C1316	C1317	C1318	C1319	C1320	C1321	C1322	C1323	C1324	C1325	C1326	C1327	C1328	C1329	C1330	C1331	C1332	C1333	C1334	C1335	C1336	C1337	C1338	C1339	C1340	C1341	C1342	C1343	C1344	C1345	C1346	C1347	C1348	C1349	C1350	C1351	C1352	C1353	C1354	C1355	C1356	C1357	C1358	C1359	C1360	C1361	C1362	C1363	C1364	C1365	C1366	C1367	C1368	C1369	C1370	C1371	C1372	C1373	C1374	C1375	C1376	C1377	C1378	C1379	C1380	C1381	C1382	C1383	C1384	C1385	C1386	C1387	C1388	C1389	C1390	C1391	C1392	C1393	C1394	C1395	C1396	C1397	C1398	C1399	C1400	C1401	C1402	C1403	C1404	C1405	C1406	C1407	C1408	C1409	C1410	C1411	C1412	C1413	C1414	C1415	C1416	C1417	C1418	C1419	C1420	C1421	C1422	C1423	C1424	C1425	C1426	C1427	C1428	C1429	C1430	C1431	C1432	C1433	C1434	C1435	C1436	C1437	C1438	C1439	C1440	C1441	C1442	C1443	C1444	C1445	C1446	C1447	C1448	C1449	C1450	C1451	C1452	C1453	C1454	C1455	C1456	C1457	C1458	C1459	C1460	C1461	C1462	C1463	C1464	C1465	C1466	C1467	C1468	C1469	C1470	C1471	C1472	C1473	C1474	C1475	C1476	C1477	C1478	C1479	C1480	C1481	C1482	C1483	C1484	C1485	C1486	C1487	C1488	C1489	C1490	C1491	C1492	C1493	C1494	C1495	C1496	C1497	C1498	C1499	C1500	C1501	C1502	C1503																																																																																																																																																																																																																																																																																																
U646	C847	G848	G849	G850	C851	C852	C853	C854	C855	C856	C857	C858	C859	C860	C861	C862	C863	C864	C865	C866	C867	C868	C869	C870	C871	C872	C873	C874	C875	C876	C877	C878	C879	C880	C881	C882	C883	C884	C885	C886	C887	C888	C889	C890	C891	C892	C893	C894	C895	C896	C897	C898	C899	C900	C901	C902	C903	C904	C905	C906	C907	C908	C909	C910	C911	C912	C913	C914	C915	C916	C917	C918	C919	C920	C921	C922	C923	C924	C925	C926	C927	C928	C929	C930	C931	C932	C933	C934	C935	C936	C937	C938	C939	C940	C941	C942	C943	C944	C945	C946	C947	C948	C949	C950	C951	C952	C953	C954	C955	C956	C957	C958	C959	C960	C961	C962	C963	C964	C965	C966	C967	C968	C969	C970	C971	C972	C973	C974	C975	C976	C977	C978	C979	C980	C981	C982	C983	C984	C985	C986	C987	C988	C989	C990	C991	C992	C993	C994	C995	C996	C997	C998	C999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140	U1141	U1142	U1143	U1144	U1145	U1146	U1147	U1148	U1149	U1150	U1151	U1152	U1153	U1154	U1155	U1156	U1157	U1158	U1159	U1160	U1161	U1162	U1163	U1164	U1165	U1166	U1167	U1168	U1169	U1170	U1171	U1172	U1173	U1174	U1175	U1176	U1177	U1178	U1179	U1180	U1181	U1182	U1183	U1184	U1185	U1186	U1187	U1188	U1189	U1190	U1191	U1192	U1193	U1194	U1195	U1196	U1197	U1198	U1199	U1200	U1201	U1202	U1203	U1204	U1205	U1206	U1207	U1208	U1209	U1210	U1211	U1212	U1213	U1214	U1215	U1216	U1217	U1218	U1219	U1220	U1221	U1222	U1223	U1224	U1225	U1226	U1227	U1228	U1229	U1230	U1231	U1232	U1233	U1234	U1235	U1236	U1237	U1238	U1239	U1240	U1241	U1242	U1243	U1244	U1245	U1246	U1247	U1248	U1249	U1250	U1251	U1252	U1253	U1254	U1255	U1256	U1257	U1258	U1259	U1260	U1261	U1262	U1263	U1264	U1265	U1266	U1267	U1268	U1269	U1270	U1271	U1272	U1273	U1274	U1275	U1276	U1277	U1278	U1279	U1280	U1281	U1282	U1283	U1284	U1285	U1286	U1287	U1288	U1289	U1290	U1291	U1292	U1293	U1294	U1295	U1296	U1297	U1298	U1299	U1300	U1301	U1302	U1303	U1304	U1305	U1306	U1307	U1308	U1309	U1310	U1311	U1312	U1313	U1314	U1315	U1316	U1317	U1318	U1319	U1320	U1321	U1322	U1323	U1324	U1325	U1326	U1327	U1328	U1329	U1330	U1331	U1332	U1333	U1334	U1335	U1336	U1337	U1338	U1339	U1340	U1341	U1342	U1343	U1344	U1345	U1346	U1347	U1348	U1349	U1350	U1351	U1352	U1353	U1354	U1355	U1356	U1357	U1358	U1359	U1360	U1361	U1362	U1363	U1364	U1365	U1366	U1367	U1368	U1369	U1370	U1371	U1372	U1373	U1374	U1375	U1376	U1377	U1378	U1379	U1380	U1381	U1382	U1383	U1384	U1385	U1386	U1387	U1388	U1389	U1390	U1391	U1392	U1393	U1394	U1395	U1396	U1397	U1398	U1399	U1400	U1401	U1402	U1403	U1404	U1405	U1406	U1407	U1408	U1409	U1410	U1411	U1412	U1413	U1414	U1415	U1416	U1417	U1418	U1419	U1420	U1421	U1422	U1423	U1424	U1425	U1426	U1427	U1428	U1429	U1430	U1431	U1432	U1433	U1434	U1435	U1436	U1437	U1438	U1439	U1440	U1441	U1442	U1443	U1444	U1445	U1446	U1447	U1448	U1449	U1450	U1451	U1452	U1453	U1454	U1455	U1456	U1457	U1458	U1459	U1460	U1461	U1462	U1463	U1464	U1465	U1466	U1467	U1468	U1469	U1470	U1471	U1472	U1473	U1474	U1475	U1476	U1477	U1478	U1479	U1480	U1481	U1482	U1483	U1484	U1485	U1486	U1487	U1488	U1489	U1490	U1491	U1492	U1493	U1494	U1495	U1496	U1497	U1498	U1499	U1500	U1501	U1502	U1503



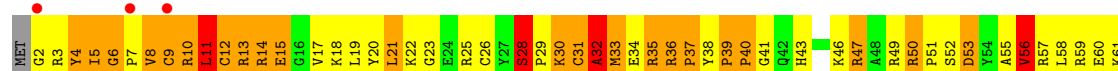
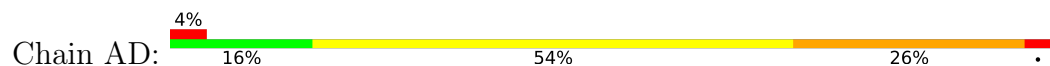
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

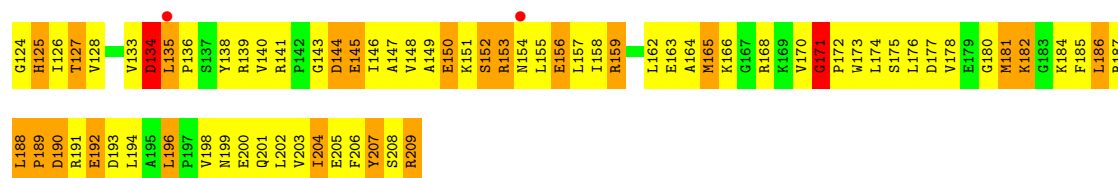


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

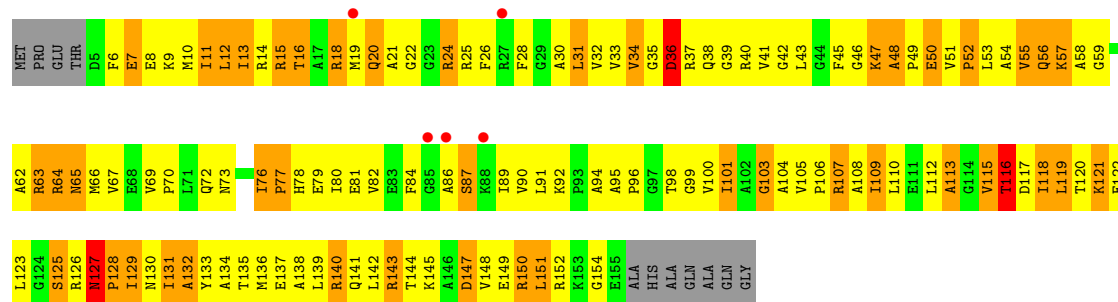
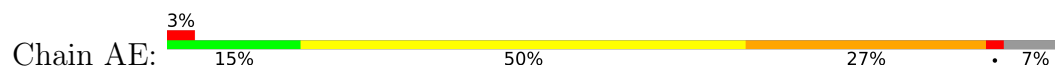


• Molecule 4: 30S RIBOSOMAL PROTEIN S4

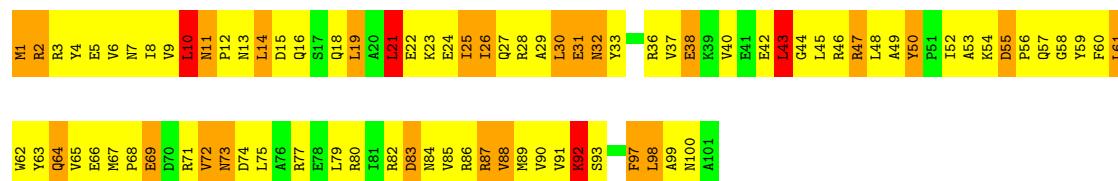
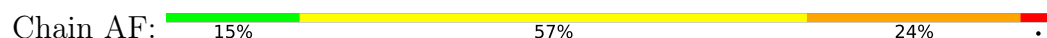




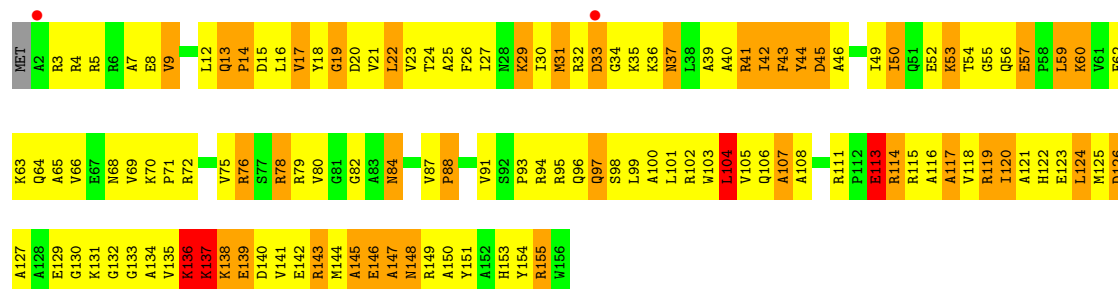
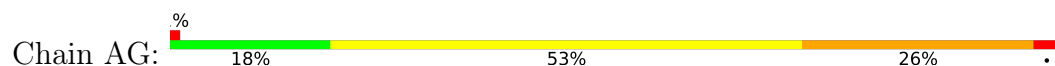
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



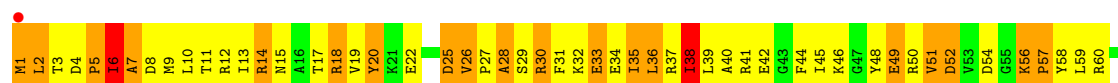
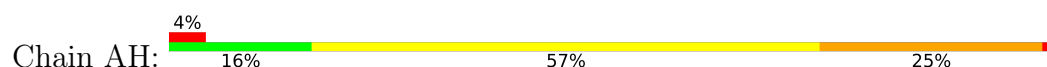
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

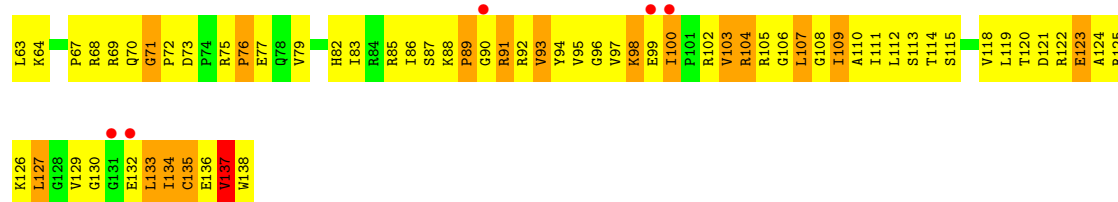


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

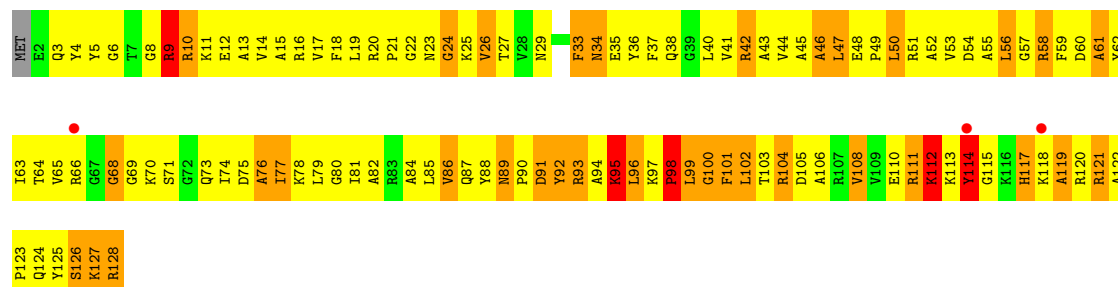
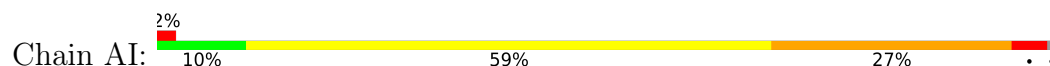


• Molecule 8: 30S RIBOSOMAL PROTEIN S8

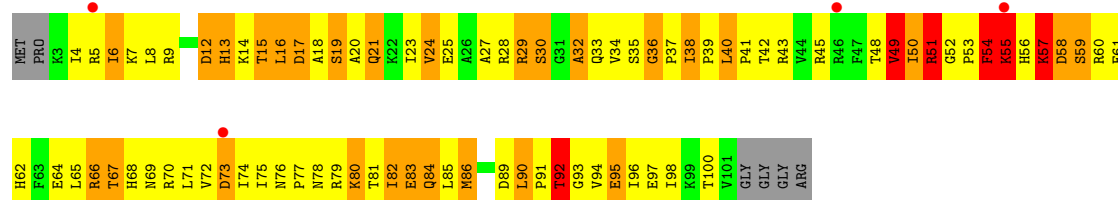
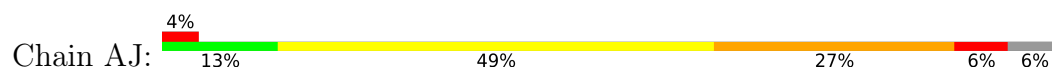




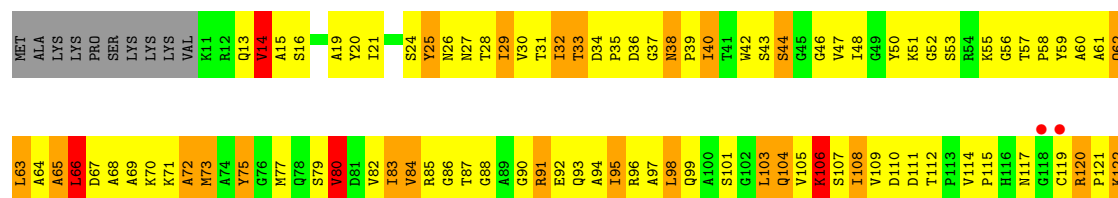
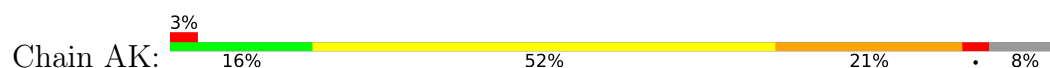
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



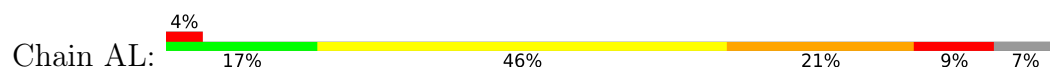
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

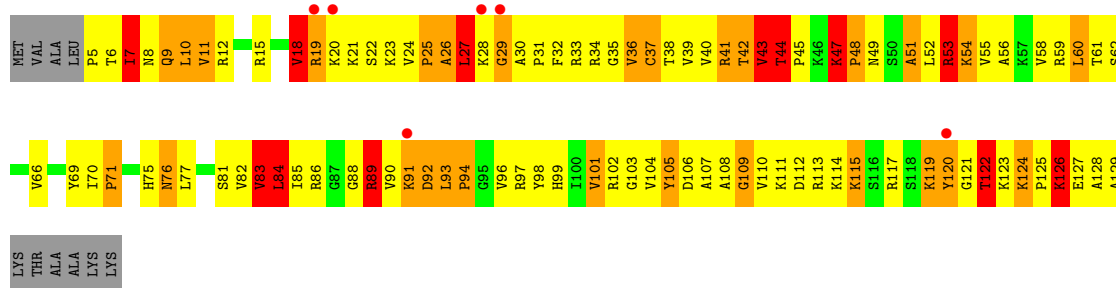


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

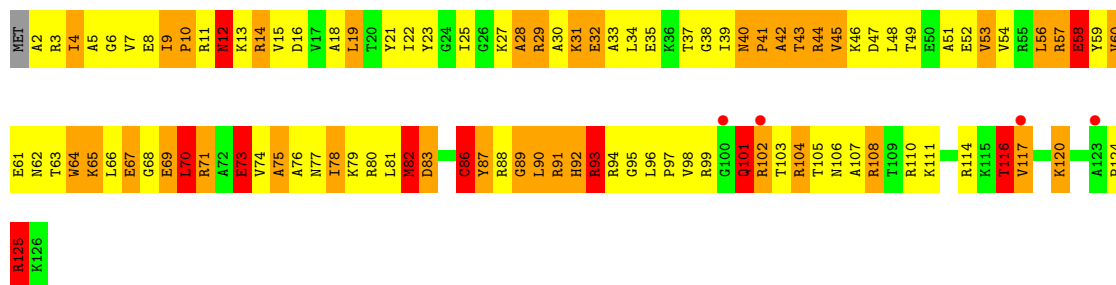
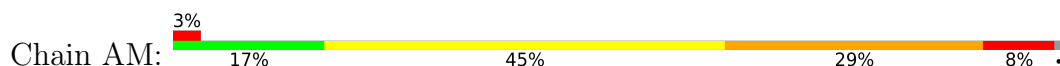


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

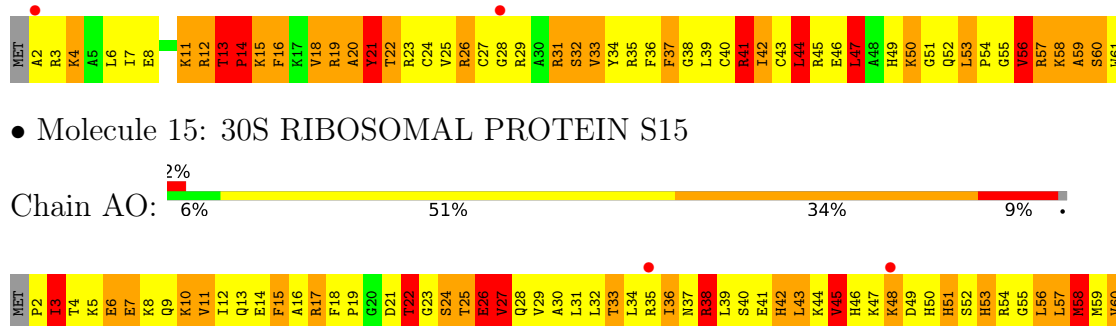




• Molecule 13: 30S RIBOSOMAL PROTEIN S13



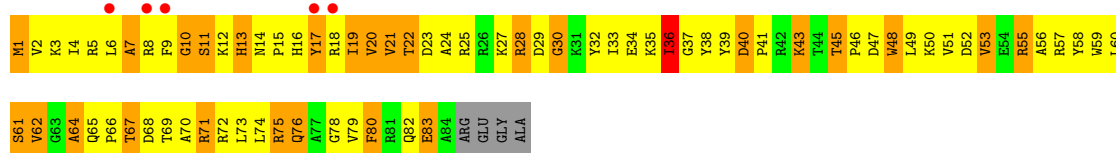
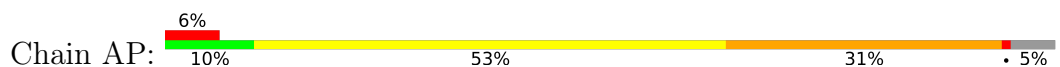
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



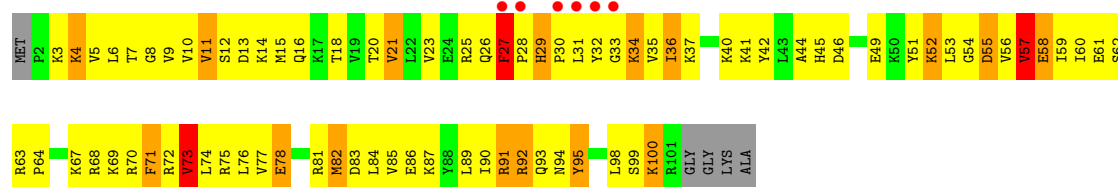
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



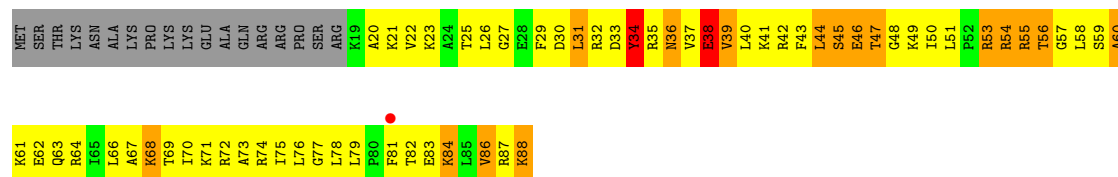
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



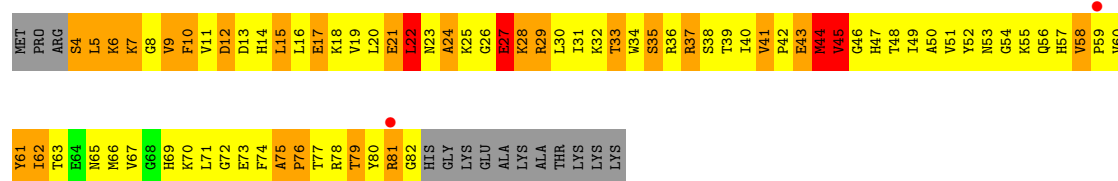
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



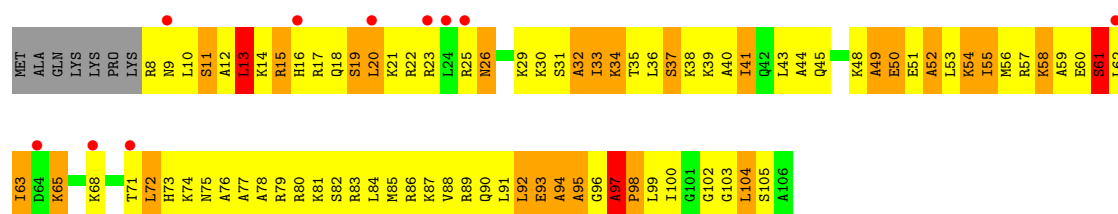
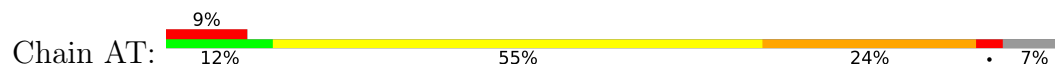
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



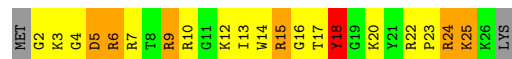
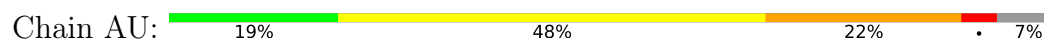
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



• Molecule 20: 30S RIBOSOMAL PROTEIN S20

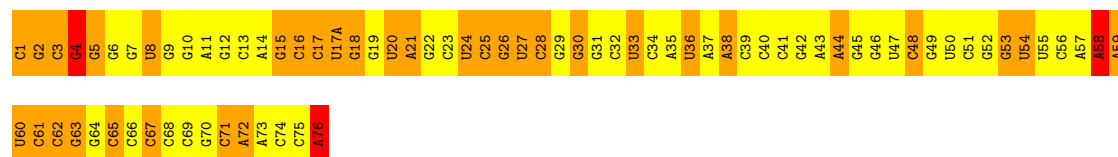


• Molecule 21: 30S RIBOSOMAL PROTEIN THX



• Molecule 22: PE HYBRID STATE TRNA FMET





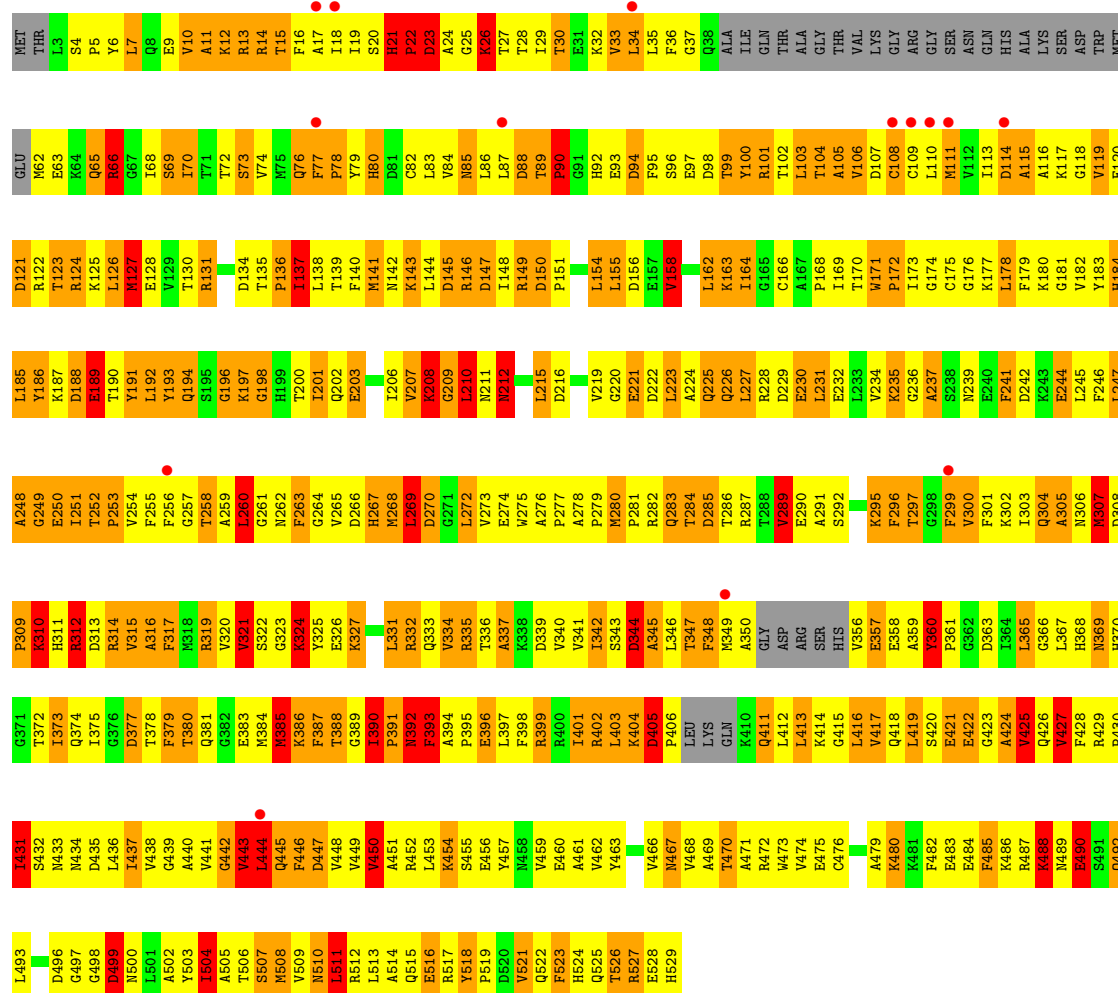
- Molecule 23: MRNA 5'-R(*AP*AP*AP*AP*AP*AP*UP*GP*UP)-3'

Chain AX: 11% 44% 44%



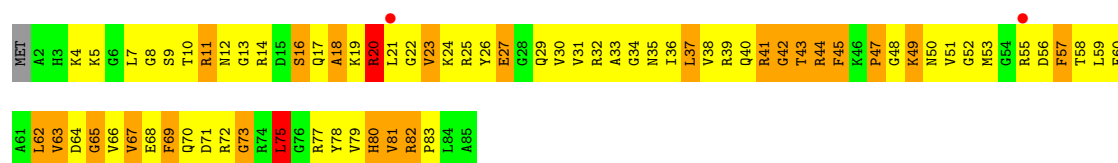
- Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 3

Chain AY: 3% 12% 43% 32% 7% 6%

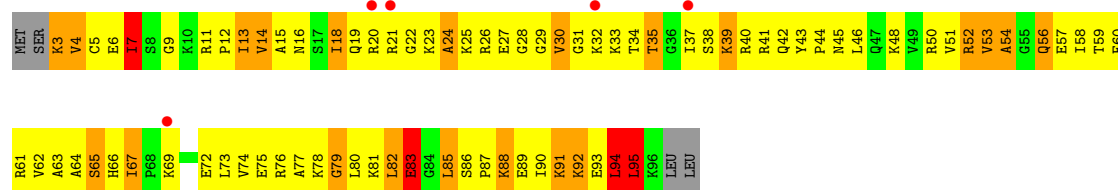
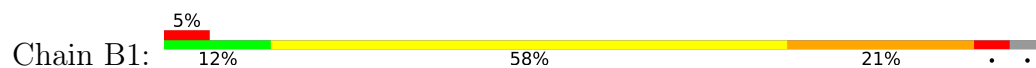


- Molecule 25: 50S RIBOSOMAL PROTEIN L27

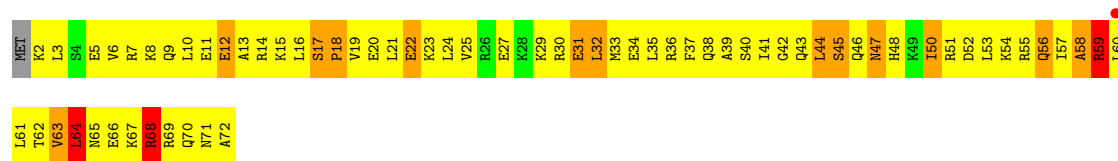
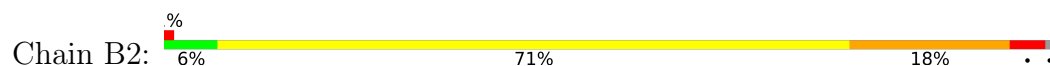
Chain B0: 2% 14% 55% 27% ..



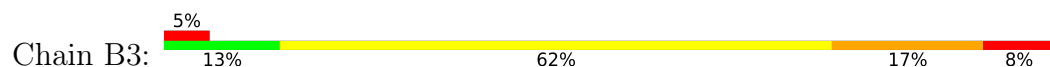
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



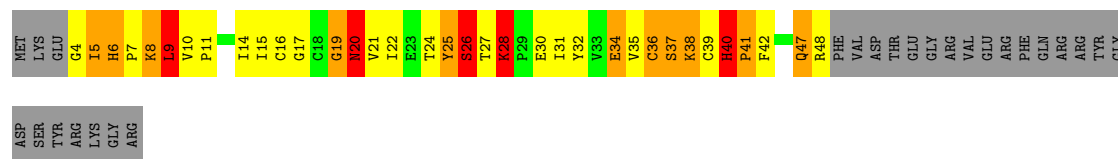
• Molecule 27: 50S RIBOSOMAL PROTEIN L29



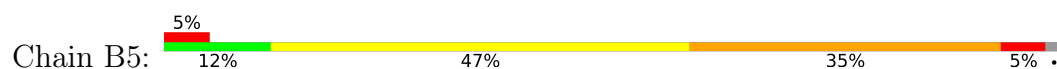
• Molecule 28: 50S RIBOSOMAL PROTEIN L30



• Molecule 29: 50S RIBOSOMAL PROTEIN L31



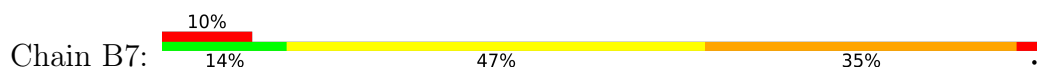
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



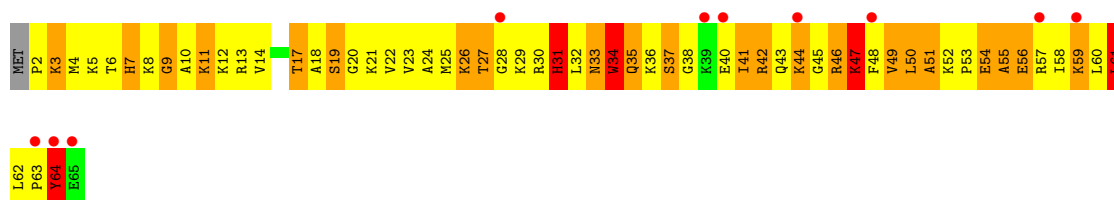
• Molecule 31: 50S RIBOSOMAL PROTEIN L33



• Molecule 32: 50S RIBOSOMAL PROTEIN L34



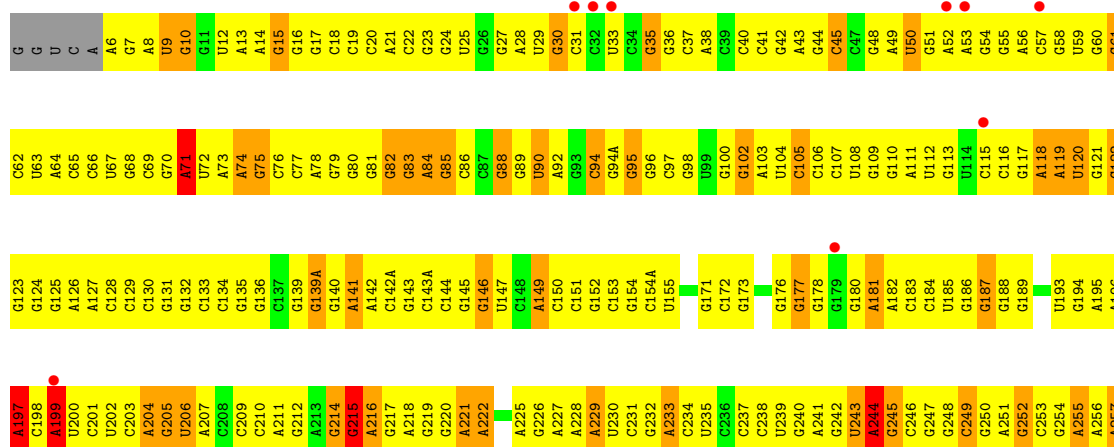
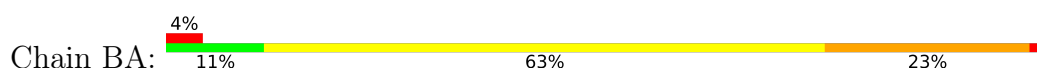
• Molecule 33: 50S RIBOSOMAL PROTEIN L35



• Molecule 34: 50S RIBOSOMAL PROTEIN L36



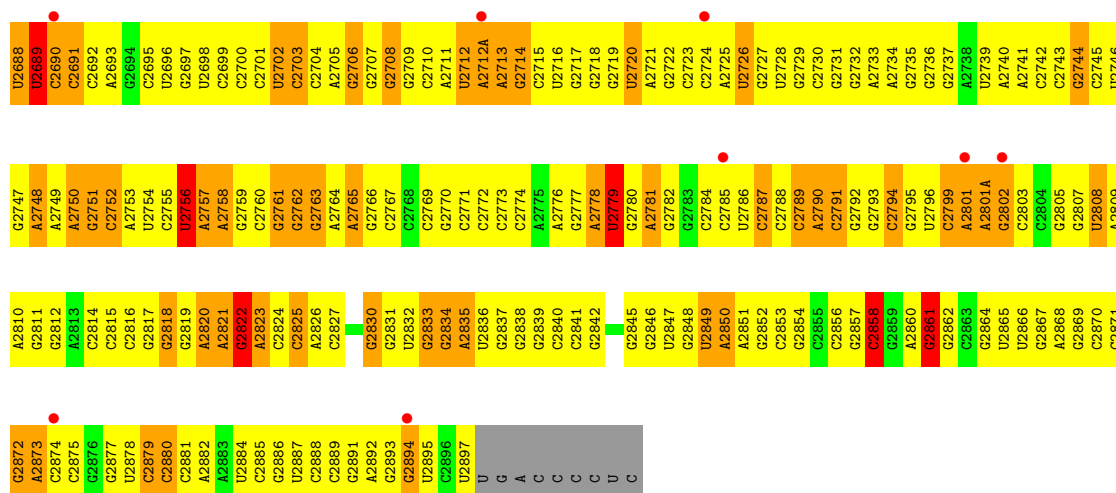
• Molecule 35: 23S RIBOSOMAL RNA



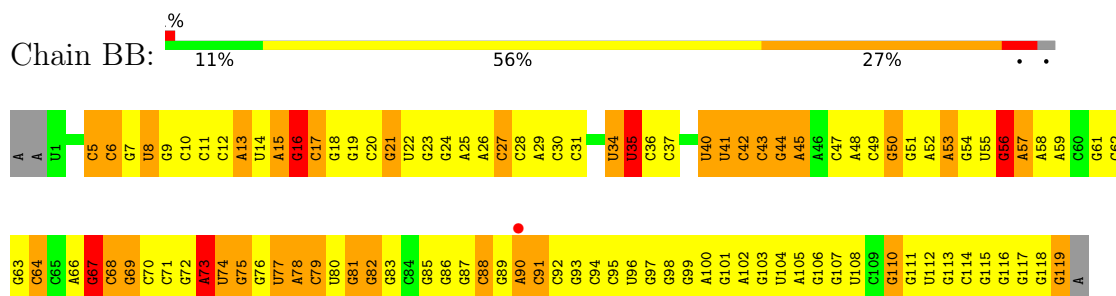
G1003	G944	G880	A819	C754	U694	A654	C595	G533	G469	C404	A345	U284	G258
C1004	A945	G881	A820	C755	G695	G654C	G596	U534	A470	U405	A346	C285	G259
C1005	G946	G884	G823	C756	G696	G654D	U597	C535	A471	G407	A347	G286	G260
C1006	G947	C885	A824	U761	G697	G654E	G598	A636	A472	G408	G348	C287	G261
C1007	G948	C886	C825	G762	G698	G654F	G599	G537	G473	G409	G349	C288	A262
A1008	C949	C887	U826	G763	G699	G654G	G600	G538	G474	G410	G350	A289	A263
A1009	C950	C888	U827	G764	G700	G654H	C501	G539	U475	G411	G351	C290	C264
A1010	C951	C889	U828	G765	G701	G654I	G602	C540	G476	G412	G352	C291	A265
A1011	G952	C890	A829	C766	G702	A654J	A603	C541	A477	C413	G353	C292	G266
C1012	A953	A890	G830	U767	G703	G654K	G605	C542	A478	C414	G354	U293	C267
C1013	G954	G891	G831	G768	G704	G654L	C606	C543	A479		G355	A294	C268
C955	G955	C893	G832	G769	A705	G654M	U606	G544	A480	C419	G356	U295	U269
G956	G956	C894	G833	G770	A706	G654N	U607	G545	G481	C420	A357	C296	A270
A957	A957	U895	U833	G771	G707	G654O	A608	A547	A482		U358	C297	A271
U958	U958	A896	C834	G772	C708	G654P	A609	A548	A483	A423	A359	G298	A271A
A959	A959	C897	A835	C773	U709	G654Q	G610	G549	C484		G360	A299	C271B
A960	A960	C898	G836	U774	G710	G654R	G611	G551	C485	G424	G361	A300	C271C
A1021	C961	A899	C837	A774	G711	G654S	G612	G552	G486	G425	U362	G301	G271D
G962	G962	A900	G838	G775	G712	G654T	U614	G553		C426	G363	C302	U271E
U963	U963	A901	U839	G776	G713	G654U	U614A	U554	G489	U427	A363A	G303	C271F
G964	G964	C902	C840	A777	U714	A654V	U614B	U555	G491	A428		G304	C271G
C965	C965	C903	A841	G778	G715	A655	A614C	G556	A492	A429	G363D	U305	G271H
G966	G966	C904	G842	U779	A716	G656	G615	U557	G493	G430	U363E	U306	G271I
A1027	A967	U905	G843	G780	G717	U657	G616	G558	G494	U431	A363F	G307	C271J
G968	G968	G906	C844	A781	A718	C658	C618	G559	G495	A432	C364	G308	U271K
U969	U969	U907	G845	A782	C719	C659	G619	C560	G496	C433	C365	G309	U271L
C970	C970	C908	C846	A783	C720	G660	G620	G561	A497	U434	C366	A310	U271M
G1031	C971	A909	U847	A784	G721	G661	A621	U562	G498	C435	G370	A311	U271N
A1032	G972	G848	G848	G785	A722	G662	G663	G563	U500	C436	A371	G312	C271O
U1033	A973	A849	A849	G786	G723	G663	G623	C564	G500	G437	G372	C313	C271P
G1034	G974	C912	C850	U787	U724	C664	G624	C565	A501	G438	U373	A314	G271Q
C975	C975	U913	U851	A788	G725	G665	G625	U566	A502	G440	A374	G315	G271R
G975A	G975A	C914	G852	A789	G726	G666	U626	A567	A505	U441	C375	G316	G271S
C976	C976	C915	G853	C790	A727	U667	A627	U568	G506	G442	C376	G317	C271T
G977	G977	G916	G854	C791	G728	G668	G628	U569	A507	A443	C377	G318	G271U
G978	G978	A917	G855	G792	G729	G669	G629	G570	G508	C444	C378		
G979	G979	A918	C856	A793	C730	A670	G630	A571	C509	C445	G379	G321	G271X
A980	A980	G919	C857	C796	C731	C671	A631	A572	C510	G446	U380	A322	U271Y
C981	C981	G920	U858	C797	C732	C672	A632	G573	U511	A447	G381	G323	C271Z
C1043	A982	G921	G859	C797	G733	C673	A633	C574	G512	U448	G382	A324	G272
A1044	A983	U922	U860	G798	A734	G674	C634	A575	A513	A449	U383	G325	U272A
A1045	C984	C923	A861	A735	A735	A675	C635	U576	A514	G450	U384	G326	G272B
A1046	C985	C924	G862	C736	C736	A676	G636	G577	A515	C451	C385	G327	G272C
G1047	C986	C925	A863	C737	C737	A677	A637	A578	C516	G452	G386	U328	G272D
A1048	G987	A926	G864	U803	G738	C678	G638	G579	C517	C453	U387	G329	G272E
C1049	A988	G927	C865	A804	G739	C679	U639	C580	G518	C454	G388	A330	C272F
A1050	G989	G928	A866	G805	U740	G680	C640	C581	G519	C455	G389	A331	C272G
G1051	A990	U930	C867	C806	G741	G681	C641	G582	U519	C456	A390	A332	C272H
C1052	C991	G931	U868	U807	G742	G682	G642	G583	G520	A457	G391	G333	U272I
C1053	G992	G932	G869	G808	G743	C683	A643	C584		G458	C392	C334	C272J
A1054	G993	A933	A870	G809	G744	G684	A644	G585	C523	U459	C393	C335	G272K
G1055	C994	G934	U871	U810	G745	G685	C645	A586	U524	A460		C336	G272L
G1056	A995	C935	A872	U811	A746	G686	A646	C587	U525	C461	G397	C337	A276
A1057	A996		G873	C812	U747	G687	G647	U588	A526	G462	G398	C277	C277
G1058	G997	G938	G874	U813	G748	U688	G648	C589	G527	G463	U399	A340	A278
G1059	C998	C939	C814	C749	C749	A689	G649	A590	A528	U464	G399	A341	C279
U1060	U999	G940	C815	C815	A750	G690	C650	C591	A529	G465	G400	C280	G280
U1061	A1000	A941	C816	C816	A751	C691	G651	G592	G530	A466	A401	G342	G281
G1062	A1001	G942	A878	C817	A752	C692	C652	G593	G531	G467	A402	C343	A282
G1063	G1002	U943	G879	G818	C753	C693	A653	U594	A532	G468	U403	C344	A283



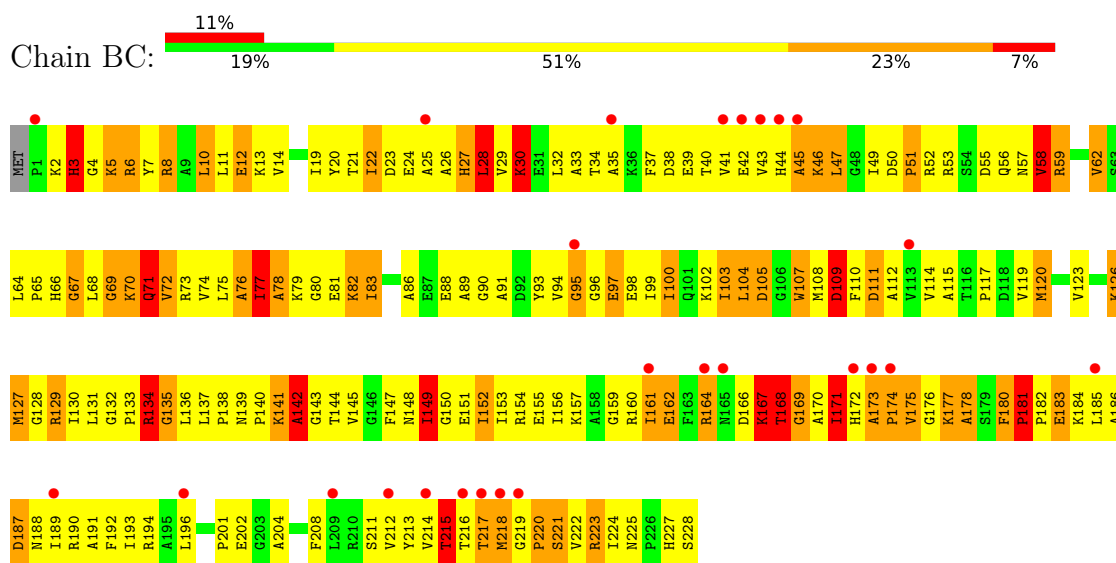
C2626	A2666	G2505	G2445	C2385	G2325	U2265	G2192	C2129	G2069	G2009	C1947	A1884
G2627	A2666	U2506	G2446	C2386	C2326	A2266	G2193	U2130	G2070	G2010	G1948	A1885
C2628	C2567	C2507	G2447	U2387	A2327	A2267	C2194	G2131	A2071	U2011	G1949	C1886
A2629	C2568	G2508	A2448	C2388	A2328	A2268	C2195	U2132	G2072	G2012	C1887	C1887
G2630	G2569	G2509	A2449	G2389	G2329	A2269	C2196	G2133	C2073	A2013	U1951	G1888
G2631	G2570	G2510	A2450	U2390	G2330	G2270	U2197	A2134	U2074	A2014	A1952	A1889
A2632	C2571	U2511	A2451	G2391	G2331	G2271	A2198	A2135	U2075	A2015	A1953	A1890
G2633	C2452	G2512	C2452	A2392	U2332	U2272	A2199	C2137	U2076	U2016	G1954	G1891
G2634	A2453	G2513	A2453	A2393	U2333	A2273	C2200	G2138	A2077	U2017	G1955	C1892
C2635	G2454	U2514	G2454	C2394	G2334	A2274	G2206	C2139	C2078	G2018	U1956	C1893
C2636	G2455	G2515	G2455	C2395	A2335	C2275	A2207	C2140	U2079	A2019	C1957	C1894
U2637	G2456	G2516	C2456	G2396	A2336	G2276	A2208	G2141	G2080	A2020	C1958	A1895
G2638	G2457	C2517	G2457	G2397	G2337	G2277	A2209	G2142	C2081	C2021	G1959	G1896
A2639	G2458	A2518	G2458	U2398	G2338	A2278	U2218	C2143	A2082	U2022	A1960	G1897
G2640	A2459	U2519	A2459	G2399	G2339	G2279	G2219	U2144	G2083	G2023	C1961	U1898
G2641	U2460	G2520	U2460	G2400	G2340	G2280	G2220	U2145	C2084	G2024	G1962	C1899
G2642	U2461	G2521	C2461	U2401	G2341	C2281	G2221	C2146	C2085	C2025	U1963	A1900
G2643	C2462	U2522	G2462	C2402	C2342	G2282	G2222	G2147	U2086	C2026	G1964	A1901
G2644	C2463	G2523	C2463	C2403	C2343	C2283	G2223	G2148	C2087	G2027	C1965	C1902
G2645	C2464	G2524	U2464	G2404	U2344	C2284	G2224	G2149	G2088	U2028	G1966	G1903
C2646	C2465	G2525	C2465	G2405	U2345	C2285	A2225	U2150	U2089	G2029	C1967	G1904
U2647	C2466	G2526	C2466	U2406	A2346	A2286	C2226	G2151	A2090	A2030	G1968	C1905
C2648	G2467	C2527	C2467	G2407	C2347	A2287	A2227	G2152	U2091	A2031	A1969	G1906
U2649	G2468	U2528	G2468	U2408	G2348	A2288	C2228	G2153	U2092	G2032	A1970	G1907
U2650	A2469	G2529	G2469	G2409	U2349	C2289	C2229	G2154	G2093	A2033	A1971	C1908
C2651	A2500	A2530	G2470	G2410	C2350	G2290	G2230	G2155	G2094	U2034	A1972	C1909
C2652	C2591	A2531	C2471	A2411	G2351	U2291	C2231	G2156	C2095	G2035	G1973	G1910
U2653	G2592	G2532	G2472	A2412	A2352	C2292	U2232	G2157	U2096	G2036	C1974	U1911
C2654	U2593	A2533	G2473	G2413	C2353	C2293	U2233	A2158	G2097	G2037	G1975	A1912
G2655	C2594	A2534	C2474	G2414	G2354	C2294	G2234	G2159	U2098	U2038	U1976	A1913
G2656	G2595	G2535	C2475	G2415	C2355	C2295	G2235	G2160	U2099	C2039	A1977	C1914
A2657	U2596	G2536	C2476	G2416	C2356	U2296	G2236	C2161	G2100	C2040	A1978	U1915
C2658	G2597	U2537	C2477	C2417	U2357	C2297	G2237	G2162	G2101	U2041	C1979	A1916
G2661	A2598	C2538	A2478	U2418	G2358	A2298	G2238	C2163	U2102	A2042	G1980	U1917
A2662	G2599	C2539	G2479	U2419	C2359	C2299	G2239	C2164	C2103	C2043	A1981	A1918
G2663	A2600	C2540	G2480	G2420	A2360	G2300	C2240	U2167	C2104	C2044	C1982	A1919
A2664	C2601	A2541	G2481	G2421	A2361	C2301	A241	G2168	C2105	C2045	G1983	C1920
C2665	A2602	A2542	G2482	G2422	G2362	G2302	G2242	C2169	G2106	G2046	G1984	G1921
U2666	G2603	G2543	C2483	U2423	C2363	G2303	U2243	A2169	C2107	U2047	G1985	G1922
C2667	U2604	G2544	G2484	C2424	G2364	G2304	U2244	A2170	G2108	G2048	A1986	U1923
G2668	U2605	G2545	G2485	A2425	A2365	A2305	U2245	A2171	U2109	G2049	G1987	C1924
C2669	C2606	U2546	G2486	A2426	A2366	C2306	G2246	U2172	C2110	C2050	C1925	C1925
G2670	G2607	U2547	G2487	G2427	C2367	G2307	A247	A2173	C2111	A2051	U1926	U1926
G2671	C2608	G2548	A2488	U2428	C2368	G2308	G2248	C2174	G2112	G2052	C1990	A1927
U2672	U2609	G2549	G2489	G2429	A2369	A2309	U2249	U2175	U2113	G2053	U1991	A1928
C2673	C2610	G2550	G2490	A2430	G2370	A2310	G2250	C2177	A2114	A2054	G1992	G1929
G2674	U2611	U2551	U2491	U2431	G2371	A2311	G2251	C2178	G2115	C2055	U1993	G1930
A2675	C2612	U2552	U2492	A2432	G2372	C2312	G2252	C2179	G2116	G2056	C1994	U1931
C2676	U2613	G2553	U2493	A2433	G2373	C2313	G2253	U2180	A2117	A2057	U1995	A1932
G2677	A2614	U2554	G2494	A2434	C2374	C2314	C2254	G2181	U2118	A2058	C1996	G1933
C2678	U2615	U2555	G2495	A2435	G2375	G2315	G2255	G2182	A2119	A2059	G1997	C1934
U2679	C2616	C2556	G2496	G2436	A2376	C2316	G2256	C2183	G2120	A2060	G1998	G1935
C2680	G2617	G2557	A2497	U2437	A2377	C2317	U2257	G2184	G2121	G2061	C1999	A1936
U2681	C2618	C2558	U2498	U2438	A2378	G2318	C2258	G2185	U2122	A2062	G2000	A1937
G2682	G2619	C2559	A2499	A2439	G2379	G2319	G2259	G2186	G2123	C2063	A1938	U1938
C2683	C2620	U2560	G2499	G2440	C2380	A2320	G2260	G2187	G2124	C2064	A2001	G1939
U2684	A2621	A2561	C2501	C2441	G2381	G2321	C2261	C2188	G2125	C2065	G2002	U1940
G2685	G2622	U2562	G2502	C2442	C2382	A2322	U2262	U2189	A2126	C2066	C2006	C1941
C2686	U2623	G2563	C2443	G2443	G2383	C2323	G2263	G2190	G2127	C2067	C2007	C1942
G2687	G2625	A2564	U2504	G2444	G2384	C2324	C2264	G2191	C2128	U2068	C2008	



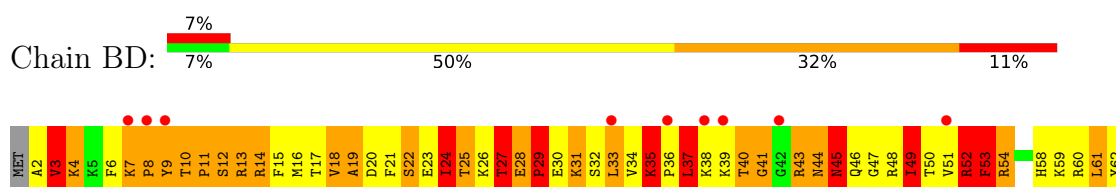
• Molecule 36: 5S RIBOSOMAL RNA

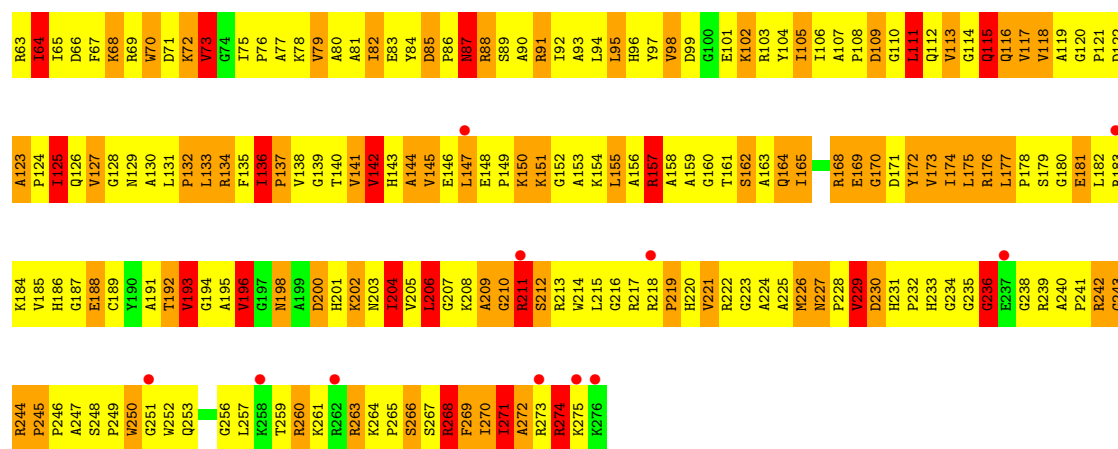


• Molecule 37: 50S RIBOSOMAL PROTEIN L1

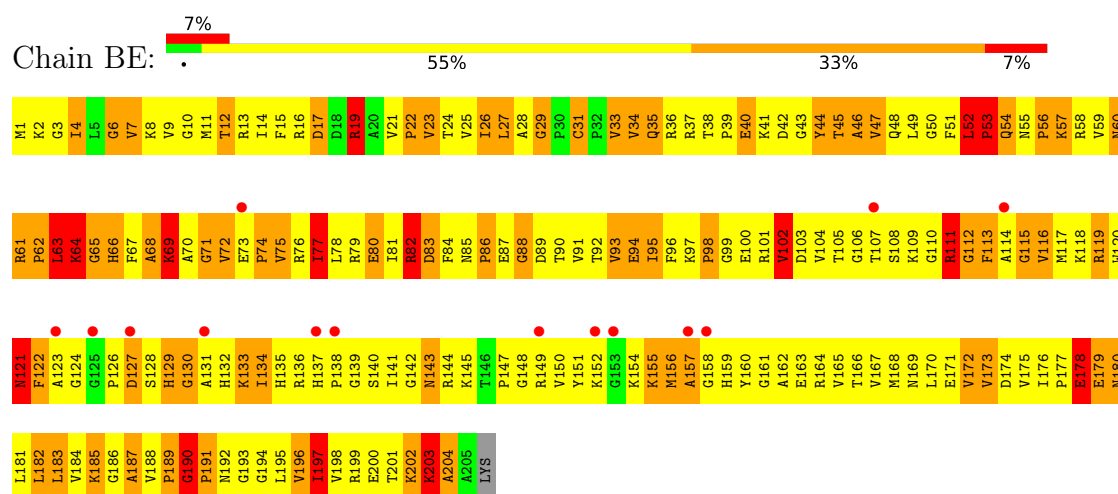


• Molecule 38: 50S RIBOSOMAL PROTEIN L2

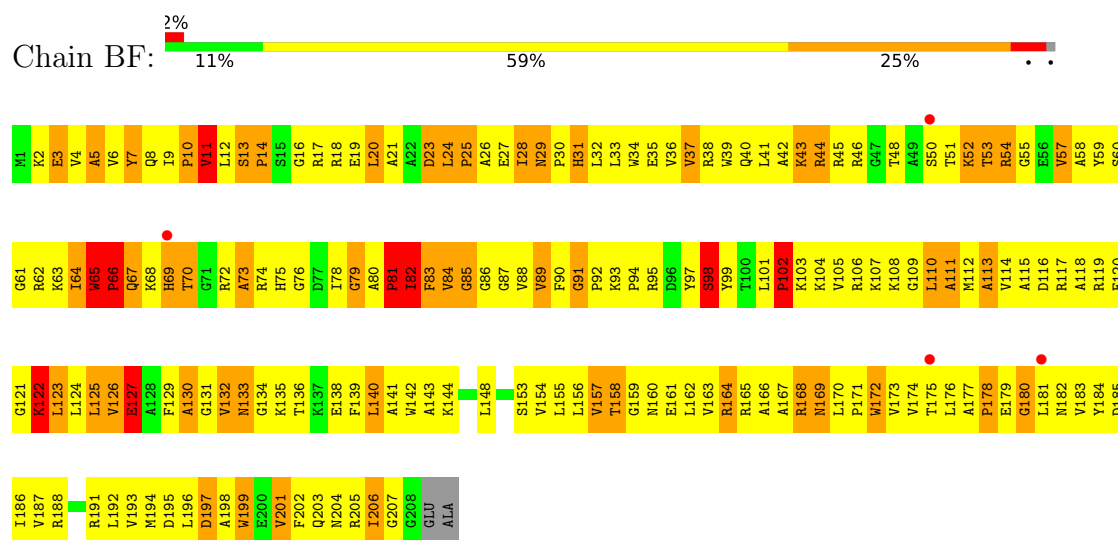




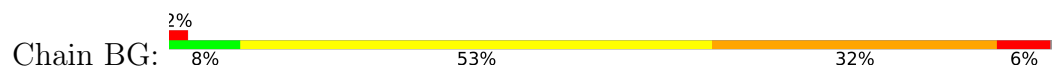
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

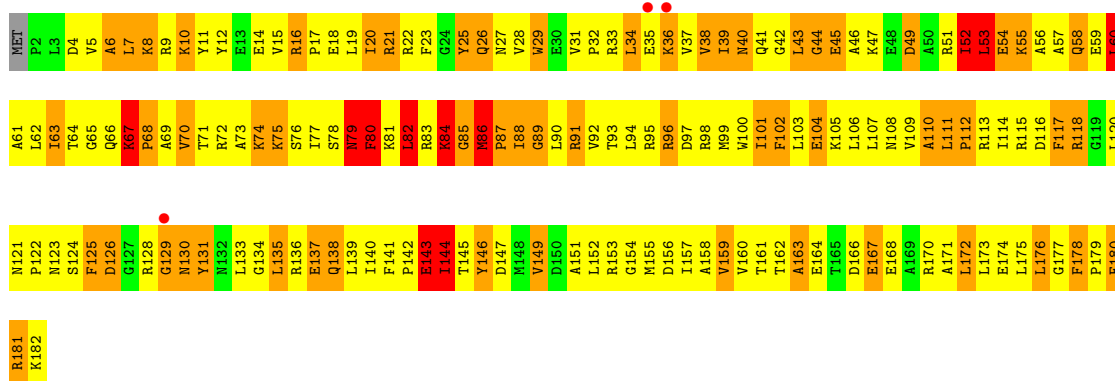


• Molecule 40: 50S RIBOSOMAL PROTEIN L4

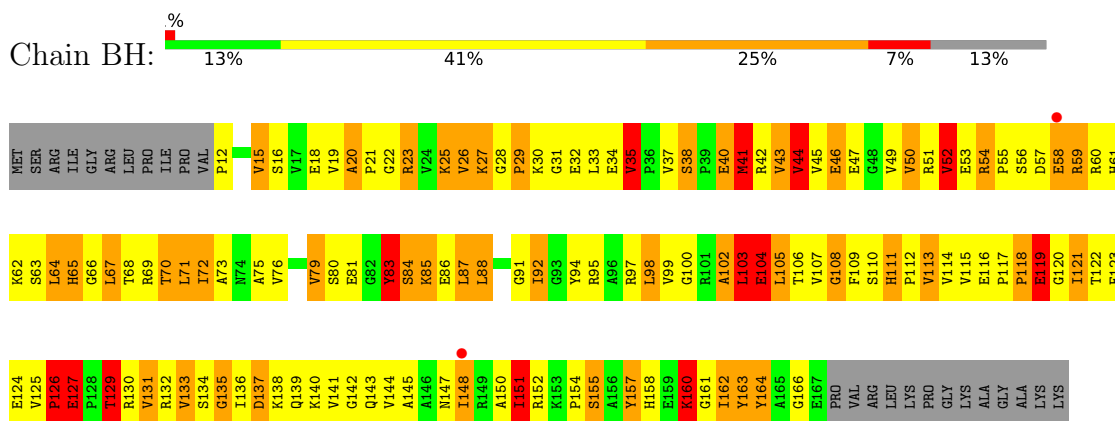


• Molecule 41: 50S RIBOSOMAL PROTEIN L5

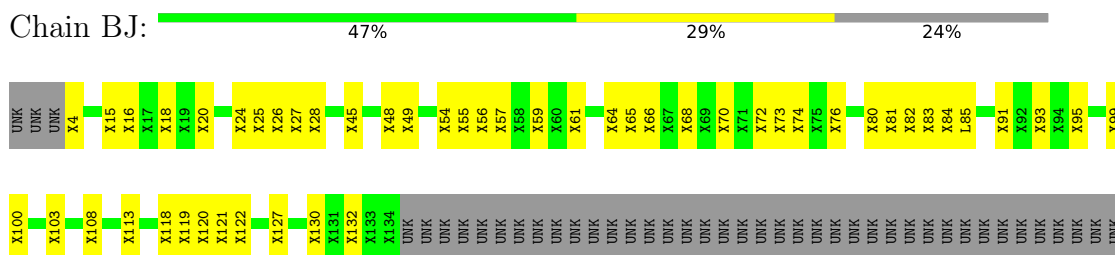




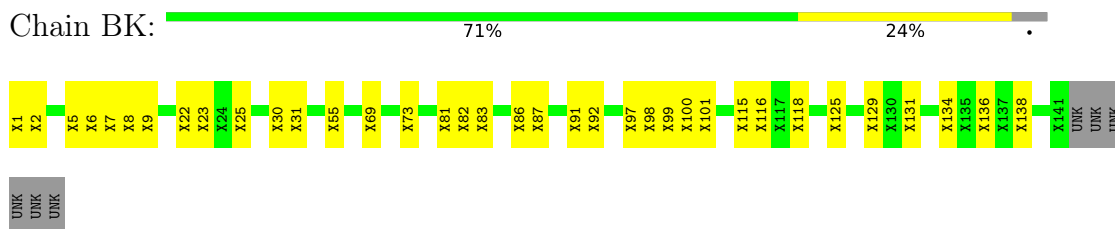
● Molecule 42: 50S RIBOSOMAL PROTEIN L6



● Molecule 43: 50S RIBOSOMAL PROTEIN L10

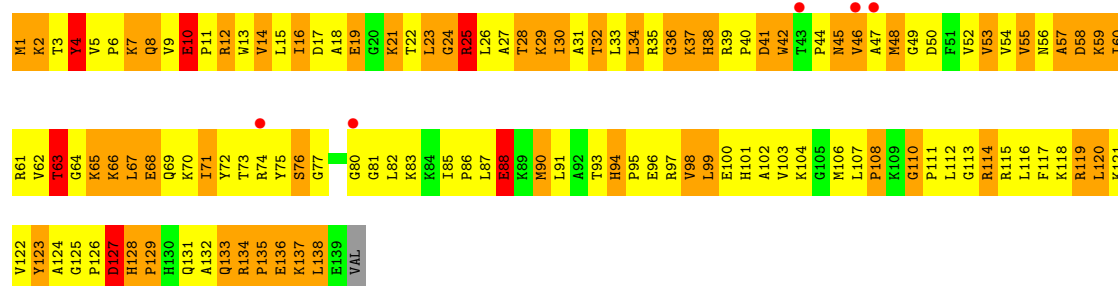


- Molecule 44: 50S RIBOSOMAL PROTEIN L11

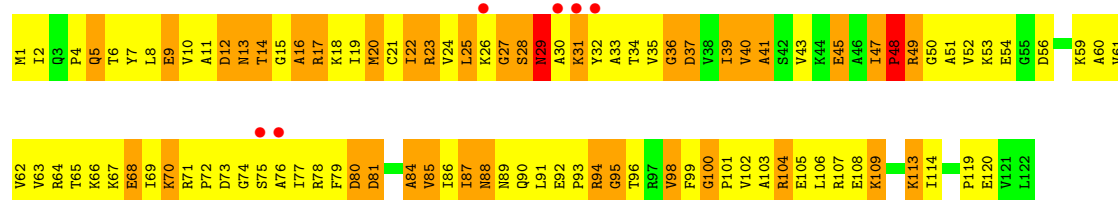
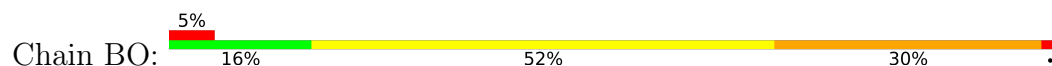


• Molecule 45: 50S RIBOSOMAL PROTEIN L13

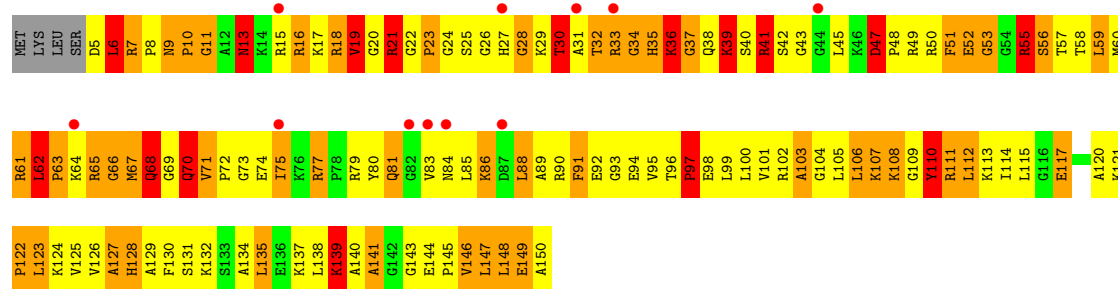




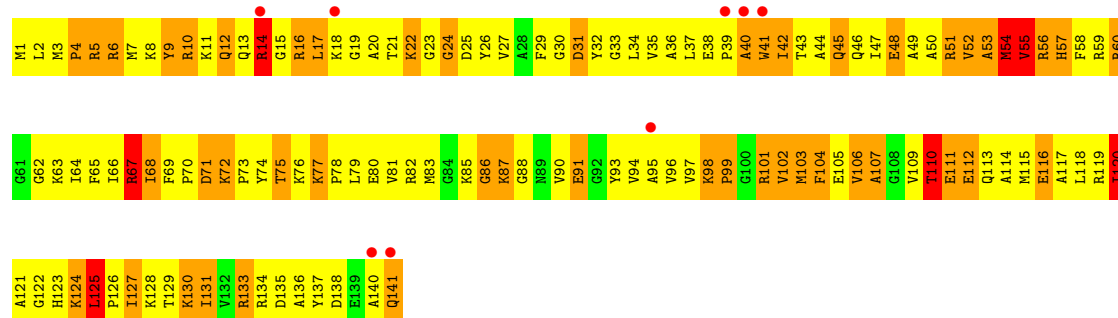
• Molecule 46: 50S RIBOSOMAL PROTEIN L14



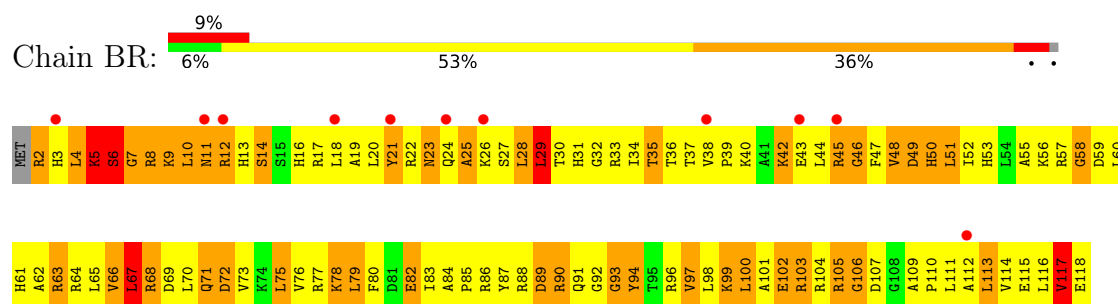
• Molecule 47: 50S RIBOSOMAL PROTEIN L15



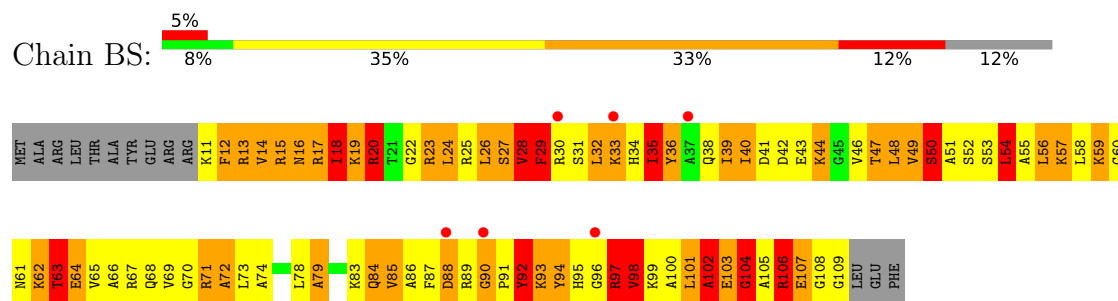
• Molecule 48: 50S RIBOSOMAL PROTEIN L16

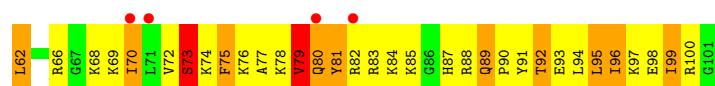


• Molecule 49: 50S RIBOSOMAL PROTEIN L17

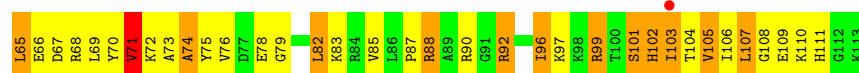
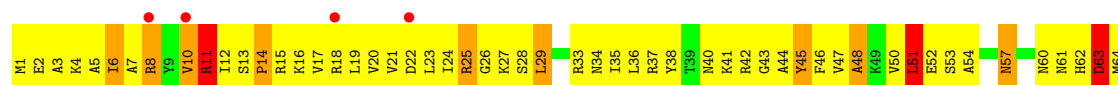


• Molecule 50: 50S RIBOSOMAL PROTEIN L18

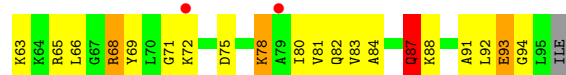
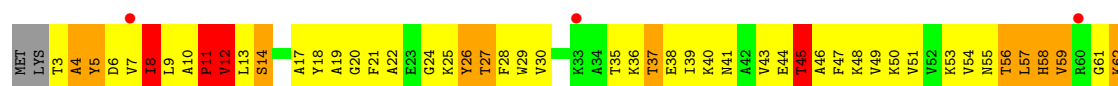




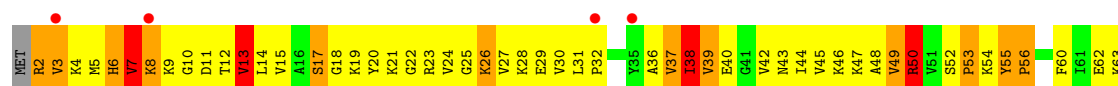
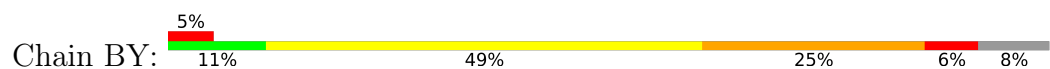
● Molecule 54: 50S RIBOSOMAL PROTEIN L22



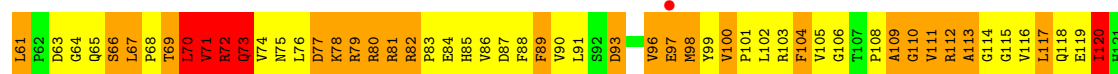
• Molecule 55: 50S RIBOSOMAL PROTEIN L23



• Molecule 56: 50S RIBOSOMAL PROTEIN L24



• Molecule 57: 50S RIBOSOMAL PROTEIN L25



LEU
ALA
GLU
GLU
ALA
ALA
ALA
GLU
VAL
ALA
GLU
PRO
GLU
VAL
ILE
LYS
LYS
GLY
LYS
GLU
GLU
GLU
GLU

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	204.70Å 229.30Å 307.00Å 90.00° 90.17° 90.00°	Depositor
Resolution (Å)	44.90 – 3.80 44.90 – 3.80	Depositor EDS
% Data completeness (in resolution range)	98.7 (44.90-3.80) 98.7 (44.90-3.80)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 3.57Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.293 , 0.351 0.278 , 0.330	Depositor DCC
R_{free} test set	53888 reflections (2.37%)	wwPDB-VP
Wilson B-factor (Å ²)	110.2	Xtriage
Anisotropy	0.390	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 68.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.31$, $\langle L^2 \rangle = 0.15$	Xtriage
Estimated twinning fraction	0.166 for h,-k,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	151017	wwPDB-VP
Average B, all atoms (Å ²)	147.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.32% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.65	2/36190 (0.0%)	0.87	93/56486 (0.2%)
2	AB	0.76	2/1936 (0.1%)	1.35	29/2611 (1.1%)
3	AC	0.76	3/1637 (0.2%)	1.33	22/2207 (1.0%)
4	AD	0.60	0/1733	1.36	34/2318 (1.5%)
5	AE	0.80	1/1163 (0.1%)	1.40	22/1566 (1.4%)
6	AF	0.64	0/856	1.35	16/1154 (1.4%)
7	AG	0.72	0/1276	1.27	15/1709 (0.9%)
8	AH	0.72	0/1136	1.42	18/1527 (1.2%)
9	AI	0.64	0/1029	1.23	11/1378 (0.8%)
10	AJ	0.76	1/808 (0.1%)	1.39	16/1087 (1.5%)
11	AK	0.74	1/900 (0.1%)	1.27	9/1213 (0.7%)
12	AL	0.75	1/987 (0.1%)	1.54	20/1322 (1.5%)
13	AM	0.76	1/999 (0.1%)	1.37	15/1338 (1.1%)
14	AN	0.85	1/501 (0.2%)	1.47	11/664 (1.7%)
15	AO	0.85	2/745 (0.3%)	1.27	13/992 (1.3%)
16	AP	0.64	1/717 (0.1%)	1.29	9/965 (0.9%)
17	AQ	0.77	1/837 (0.1%)	1.41	13/1119 (1.2%)
18	AR	0.71	0/579	1.26	6/768 (0.8%)
19	AS	0.83	2/643 (0.3%)	1.27	6/867 (0.7%)
20	AT	0.62	0/765	1.22	8/1007 (0.8%)
21	AU	0.83	1/213 (0.5%)	1.23	1/279 (0.4%)
22	AV	0.56	1/1832 (0.1%)	0.82	2/2855 (0.1%)
23	AX	0.53	0/216	0.74	0/335
24	AY	1.26	31/4005 (0.8%)	1.44	65/5407 (1.2%)
25	B0	0.75	0/671	1.36	11/892 (1.2%)
26	B1	0.64	2/739 (0.3%)	1.24	8/983 (0.8%)
27	B2	0.63	0/600	1.20	8/793 (1.0%)
28	B3	0.76	1/473 (0.2%)	1.45	8/636 (1.3%)
29	B4	0.94	2/350 (0.6%)	1.25	4/476 (0.8%)
30	B5	0.83	0/473	1.36	8/639 (1.3%)
31	B6	0.91	0/440	1.50	8/586 (1.4%)
32	B7	0.64	1/427 (0.2%)	1.22	7/563 (1.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
33	B8	0.81	1/516 (0.2%)	1.29	5/681 (0.7%)
34	B9	0.70	0/310	1.10	1/407 (0.2%)
35	BA	0.64	4/69976 (0.0%)	0.85	130/109244 (0.1%)
36	BB	0.62	0/2853	0.92	12/4451 (0.3%)
37	BC	1.17	8/1775 (0.5%)	1.48	38/2392 (1.6%)
38	BD	0.91	2/2195 (0.1%)	1.61	58/2955 (2.0%)
39	BE	0.79	4/1597 (0.3%)	1.42	29/2155 (1.3%)
40	BF	0.72	1/1659 (0.1%)	1.35	25/2246 (1.1%)
41	BG	0.70	0/1499	1.26	20/2016 (1.0%)
42	BH	0.87	1/1211 (0.1%)	1.33	19/1636 (1.2%)
43	BJ	0.54	0/7	0.37	0/8
45	BN	0.71	1/1132 (0.1%)	1.33	17/1527 (1.1%)
46	BO	0.76	0/943	1.40	21/1269 (1.7%)
47	BP	0.71	0/1131	1.50	23/1504 (1.5%)
48	BQ	0.77	1/1143 (0.1%)	1.48	18/1527 (1.2%)
49	BR	0.62	0/974	1.30	16/1302 (1.2%)
50	BS	0.83	1/779 (0.1%)	1.49	16/1038 (1.5%)
51	BT	0.78	1/1156 (0.1%)	1.38	26/1544 (1.7%)
52	BU	0.72	0/975	1.28	13/1297 (1.0%)
53	BV	0.71	0/790	1.27	13/1057 (1.2%)
54	BW	0.73	0/907	1.23	10/1216 (0.8%)
55	BX	0.82	2/740 (0.3%)	1.28	11/995 (1.1%)
56	BY	0.79	1/789 (0.1%)	1.37	9/1053 (0.9%)
57	BZ	0.75	0/1435	1.33	25/1949 (1.3%)
All	All	0.70	86/162368 (0.1%)	1.03	1071/242211 (0.4%)

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	3	125
9	AI	0	1
11	AK	0	1
17	AQ	0	1
21	AU	0	1
22	AV	0	5
24	AY	0	5
30	B5	0	1
35	BA	3	160
36	BB	0	12

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
42	BH	0	1
45	BN	0	1
48	BQ	0	1
53	BV	0	1
All	All	6	316

All (86) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	AY	444	LEU	C-N	-16.31	1.12	1.34
24	AY	504	ILE	C-N	-15.36	1.11	1.33
24	AY	502	ALA	C-N	9.94	1.46	1.33
24	AY	149	ARG	C-O	9.11	1.34	1.24
37	BC	127	MET	CG-SD	9.04	2.03	1.80
24	AY	189	GLU	C-O	8.63	1.34	1.24
24	AY	127	MET	SD-CE	-8.11	1.59	1.79
24	AY	191	TYR	CA-C	-7.96	1.43	1.52
24	AY	307	MET	CG-SD	7.75	2.00	1.80
37	BC	19	ILE	CA-CB	7.68	1.61	1.53
3	AC	5	ILE	CA-CB	7.48	1.64	1.54
24	AY	392	ASN	CA-C	7.44	1.62	1.52
24	AY	191	TYR	CZ-OH	-7.18	1.23	1.38
24	AY	289	VAL	CA-CB	-7.13	1.45	1.53
24	AY	21	HIS	C-O	7.03	1.33	1.24
37	BC	120	MET	CG-SD	7.00	1.98	1.80
37	BC	218	MET	CG-SD	6.98	1.98	1.80
39	BE	12	THR	CA-CB	6.88	1.65	1.53
24	AY	207	VAL	CA-CB	6.86	1.63	1.54
24	AY	324	LYS	N-CA	-6.83	1.37	1.46
24	AY	252	THR	CA-CB	6.61	1.64	1.53
24	AY	191	TYR	CE2-CZ	6.54	1.53	1.38
37	BC	127	MET	SD-CE	6.53	1.95	1.79
24	AY	312	ARG	C-O	6.47	1.32	1.23
24	AY	189	GLU	CG-CD	-6.38	1.36	1.52
39	BE	34	VAL	CA-CB	6.32	1.63	1.54
24	AY	184	HIS	C-N	6.13	1.42	1.33
37	BC	218	MET	SD-CE	5.99	1.94	1.79
39	BE	204	ALA	C-N	-5.96	1.25	1.33
29	B4	47	GLN	C-N	-5.91	1.25	1.33
35	BA	2106	G	C3'-O3'	5.91	1.51	1.42
50	BS	108	GLY	C-N	-5.84	1.25	1.33
39	BE	77	ILE	CA-CB	5.84	1.62	1.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	BN	138	LEU	C-N	-5.83	1.25	1.33
24	AY	427	VAL	CA-CB	5.81	1.63	1.54
24	AY	115	ALA	CA-CB	-5.80	1.44	1.53
15	AO	3	ILE	CA-CB	5.80	1.62	1.54
12	AL	128	ALA	C-N	-5.76	1.25	1.33
26	B1	14	VAL	CA-CB	5.73	1.59	1.54
42	BH	166	GLY	C-N	-5.73	1.25	1.33
16	AP	83	GLU	C-N	-5.72	1.25	1.33
5	AE	154	GLY	C-N	-5.71	1.25	1.33
51	BT	137	LYS	C-N	-5.67	1.25	1.33
35	BA	987	G	O5'-C5'	5.67	1.50	1.42
32	B7	48	LYS	C-N	-5.63	1.25	1.33
37	BC	33	ALA	CA-CB	5.59	1.59	1.52
21	AU	25	LYS	C-N	-5.58	1.25	1.33
24	AY	390	ILE	CA-CB	5.57	1.61	1.54
26	B1	95	LEU	C-N	-5.56	1.25	1.33
33	B8	64	TYR	C-N	-5.53	1.25	1.33
2	AB	240	GLN	C-N	-5.53	1.25	1.33
3	AC	15	THR	CA-CB	5.53	1.62	1.53
17	AQ	100	LYS	C-N	-5.51	1.25	1.33
10	AJ	100	THR	C-N	-5.49	1.25	1.33
28	B3	59	VAL	C-N	-5.49	1.25	1.33
35	BA	809	G	C3'-O3'	5.49	1.50	1.42
29	B4	40	HIS	CA-C	-5.48	1.46	1.52
24	AY	191	TYR	CD1-CE1	5.46	1.55	1.38
48	BQ	52	VAL	CA-CB	-5.45	1.47	1.54
55	BX	94	GLY	C-N	-5.43	1.25	1.33
24	AY	380	THR	CA-CB	5.39	1.61	1.53
22	AV	4	G	O5'-C5'	5.38	1.50	1.42
40	BF	207	GLY	C-N	-5.36	1.25	1.33
11	AK	14	VAL	CA-CB	5.36	1.60	1.54
24	AY	345	ALA	CA-CB	5.35	1.61	1.53
24	AY	316	ALA	N-CA	-5.33	1.42	1.47
24	AY	189	GLU	CA-C	5.31	1.58	1.52
56	BY	101	LYS	C-N	-5.31	1.25	1.33
15	AO	58	MET	SD-CE	-5.27	1.66	1.79
37	BC	219	GLY	C-N	5.27	1.38	1.33
38	BD	232	PRO	CA-C	5.25	1.57	1.52
35	BA	2496	C	O5'-C5'	5.25	1.50	1.42
24	AY	312	ARG	CA-C	5.24	1.59	1.52
19	AS	44	MET	SD-CE	-5.22	1.66	1.79
19	AS	81	ARG	C-N	-5.21	1.26	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BD	240	ALA	CA-C	-5.19	1.47	1.53
1	AA	573	A	C3'-O3'	5.19	1.50	1.42
3	AC	207	VAL	C-N	-5.18	1.26	1.33
24	AY	300	VAL	CA-CB	-5.16	1.48	1.54
1	AA	1125	U	O5'-C5'	5.14	1.50	1.42
24	AY	15	THR	CA-C	5.10	1.59	1.52
2	AB	16	HIS	CA-C	5.09	1.60	1.52
24	AY	241	PHE	N-CA	-5.09	1.40	1.46
13	AM	125	ARG	C-N	-5.09	1.26	1.33
14	AN	22	THR	CA-CB	5.08	1.59	1.53
55	BX	45	THR	CA-CB	5.06	1.61	1.53

All (1071) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	504	ILE	CA-C-N	-17.65	91.26	122.32
24	AY	504	ILE	C-N-CA	-17.65	91.26	122.32
1	AA	1498	U	C2'-C3'-O3'	17.28	135.42	109.50
8	AH	79	VAL	N-CA-C	-15.22	96.89	110.74
50	BS	54	LEU	N-CA-C	-15.00	94.08	112.38
35	BA	1799	G	C2'-C3'-O3'	14.35	131.03	109.50
35	BA	1300	U	C2'-C3'-O3'	14.01	130.51	109.50
24	AY	504	ILE	O-C-N	13.99	138.99	122.62
1	AA	1049	U	C2'-C3'-O3'	13.56	129.84	109.50
48	BQ	33	GLY	N-CA-C	13.52	128.81	111.37
35	BA	1819	A	C2'-C3'-O3'	13.46	129.69	109.50
1	AA	1399	C	C2'-C3'-O3'	13.27	129.40	109.50
4	AD	12	CYS	N-CA-C	-13.17	96.61	110.97
1	AA	428	G	C2'-C3'-O3'	13.16	129.24	109.50
24	AY	490	GLU	N-CA-C	-13.10	97.27	113.38
38	BD	132	PRO	N-CA-C	-12.79	91.05	111.38
47	BP	53	GLY	N-CA-C	-12.72	97.67	114.85
35	BA	1992	G	C2'-C3'-O3'	12.62	128.43	109.50
1	AA	1504	G	C2'-C3'-O3'	12.45	128.17	109.50
37	BC	8	ARG	N-CA-C	12.42	124.36	111.07
13	AM	73	GLU	N-CA-C	-12.19	97.68	111.82
56	BY	49	VAL	N-CA-C	-12.09	101.26	113.47
1	AA	508	C	C2'-C3'-O3'	12.01	127.51	109.50
47	BP	52	GLU	N-CA-C	11.92	136.20	110.80
35	BA	387	U	C2'-C3'-O3'	11.82	127.23	109.50
24	AY	393	PHE	N-CA-C	11.81	135.96	110.80
12	AL	26	ALA	N-CA-C	-11.69	100.58	112.97

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BD	123	ALA	N-CA-C	11.64	124.43	109.64
1	AA	792	A	C2'-C3'-O3'	11.60	126.89	109.50
45	BN	41	ASP	N-CA-C	-11.56	97.47	111.69
14	AN	21	TYR	N-CA-C	11.52	123.17	107.73
24	AY	265	VAL	N-CA-C	-11.42	101.74	111.56
16	AP	71	ARG	N-CA-C	-11.29	99.64	113.41
3	AC	194	GLY	N-CA-C	11.24	125.06	110.45
38	BD	85	ASP	CA-C-N	11.01	130.42	118.97
38	BD	85	ASP	C-N-CA	11.01	130.42	118.97
5	AE	127	ASN	CA-C-N	10.98	133.56	119.84
5	AE	127	ASN	C-N-CA	10.98	133.56	119.84
42	BH	133	VAL	N-CA-C	10.98	122.11	108.06
12	AL	43	VAL	N-CA-C	10.96	124.53	108.96
10	AJ	49	VAL	N-CA-C	10.79	124.42	108.45
7	AG	29	LYS	N-CA-C	-10.75	99.64	111.36
31	B6	45	LYS	N-CA-C	10.69	126.21	107.61
48	BQ	72	LYS	N-CA-C	-10.68	95.12	110.40
24	AY	37	GLY	N-CA-C	-10.62	97.13	115.61
37	BC	69	GLY	N-CA-C	-10.57	100.73	115.32
17	AQ	29	HIS	CA-C-N	10.51	130.17	119.56
17	AQ	29	HIS	C-N-CA	10.51	130.17	119.56
37	BC	129	ARG	N-CA-C	-10.47	96.33	111.30
3	AC	88	ARG	N-CA-C	-10.42	100.42	113.55
38	BD	209	ALA	N-CA-C	-10.38	99.97	111.28
51	BT	7	ILE	N-CA-C	-10.29	100.75	110.42
48	BQ	125	LEU	CA-C-N	10.23	131.27	120.83
48	BQ	125	LEU	C-N-CA	10.23	131.27	120.83
7	AG	31	MET	N-CA-C	10.21	124.23	110.35
24	AY	511	LEU	N-CA-C	-10.17	100.95	113.97
10	AJ	38	ILE	CA-C-N	10.12	132.49	119.84
10	AJ	38	ILE	C-N-CA	10.12	132.49	119.84
49	BR	10	LEU	N-CA-C	10.08	123.16	108.34
35	BA	2756	U	C2'-C3'-O3'	9.96	124.44	109.50
38	BD	269	PHE	N-CA-C	-9.90	99.93	112.90
38	BD	123	ALA	CA-C-N	9.79	132.07	119.84
38	BD	123	ALA	C-N-CA	9.79	132.07	119.84
37	BC	26	ALA	N-CA-C	-9.71	101.54	113.97
39	BE	99	GLY	N-CA-C	-9.68	101.30	114.95
47	BP	59	LEU	N-CA-C	-9.62	101.48	113.02
5	AE	125	SER	N-CA-C	-9.61	94.97	109.86
51	BT	29	ARG	N-CA-C	9.60	123.19	107.73
56	BY	55	TYR	CA-C-N	9.51	131.73	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	BY	55	TYR	C-N-CA	9.51	131.73	119.84
10	AJ	54	PHE	N-CA-C	9.47	124.43	109.65
57	BZ	112	ARG	N-CA-C	-9.45	99.77	111.11
37	BC	174	PRO	N-CA-C	9.44	126.24	110.95
50	BS	39	ILE	N-CA-C	-9.43	95.99	108.06
51	BT	95	ARG	N-CA-C	-9.41	103.00	112.97
8	AH	56	LYS	CA-C-N	9.39	131.58	119.84
8	AH	56	LYS	C-N-CA	9.39	131.58	119.84
24	AY	307	MET	CG-SD-CE	9.39	121.55	100.90
48	BQ	14	ARG	N-CA-C	9.37	121.18	110.97
18	AR	46	GLU	N-CA-C	-9.36	100.74	112.72
28	B3	15	TYR	CA-C-N	9.36	131.54	119.84
28	B3	15	TYR	C-N-CA	9.36	131.54	119.84
13	AM	45	VAL	N-CA-C	-9.25	103.71	112.96
48	BQ	102	VAL	N-CA-C	-9.24	97.51	109.80
15	AO	47	LYS	N-CA-C	9.20	123.91	112.87
12	AL	119	LYS	N-CA-C	-9.18	94.81	109.59
35	BA	1300	U	C4'-C3'-O3'	9.15	123.13	109.40
12	AL	66	VAL	N-CA-C	9.12	119.66	108.53
13	AM	92	HIS	N-CA-C	-9.12	100.27	111.40
19	AS	21	GLU	N-CA-C	-9.12	100.27	111.40
46	BO	12	ASP	N-CA-C	9.09	122.69	109.14
37	BC	22	ILE	N-CA-C	-9.07	103.76	112.29
40	BF	197	ASP	N-CA-C	-9.07	102.79	114.04
3	AC	116	VAL	N-CA-C	-9.06	99.30	111.44
2	AB	117	GLU	N-CA-C	-9.05	101.30	111.71
3	AC	92	ALA	N-CA-C	-9.04	99.02	112.04
5	AE	118	ILE	N-CA-C	9.04	120.36	107.88
48	BQ	48	GLU	N-CA-C	-9.04	101.42	111.28
12	AL	9	GLN	N-CA-C	-9.04	101.38	111.14
4	AD	40	PRO	N-CA-C	9.01	123.83	111.22
52	BU	98	LEU	N-CA-C	-8.99	101.48	111.28
4	AD	165	MET	N-CA-C	-8.97	102.03	113.16
35	BA	1060	U	C2'-C3'-O3'	8.95	122.92	109.50
1	AA	1049	U	C4'-C3'-O3'	8.91	122.77	109.40
4	AD	152	SER	N-CA-C	8.90	122.64	111.69
39	BE	73	GLU	N-CA-C	8.90	119.84	109.60
6	AF	92	LYS	N-CA-C	-8.87	98.82	110.53
4	AD	39	PRO	CA-C-N	8.85	128.70	120.21
4	AD	39	PRO	C-N-CA	8.85	128.70	120.21
1	AA	60	A	C2'-C3'-O3'	8.84	122.77	109.50
38	BD	272	ALA	N-CA-C	8.84	123.24	110.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	BQ	120	ILE	N-CA-C	-8.84	102.22	110.53
37	BC	178	ALA	N-CA-C	-8.78	101.54	113.30
37	BC	67	GLY	N-CA-C	8.74	123.70	112.68
11	AK	40	ILE	N-CA-C	-8.72	104.83	113.20
8	AH	38	ILE	N-CA-C	8.71	118.71	110.53
24	AY	227	LEU	N-CA-C	-8.70	101.79	111.28
49	BR	78	LYS	N-CA-C	-8.70	102.67	113.28
1	AA	1325	C	C5'-C4'-C3'	-8.70	102.96	116.00
17	AQ	11	VAL	N-CA-C	-8.70	104.82	112.12
37	BC	171	ILE	N-CA-C	8.66	120.36	107.80
27	B2	56	GLN	N-CA-C	-8.65	101.54	110.97
35	BA	1799	G	C4'-C3'-O3'	8.62	122.34	109.40
12	AL	44	THR	CA-C-N	8.61	130.60	119.84
12	AL	44	THR	C-N-CA	8.61	130.60	119.84
35	BA	2110	G	C2'-C3'-O3'	8.60	122.39	109.50
6	AF	84	ASN	N-CA-C	-8.59	101.90	112.38
12	AL	38	THR	N-CA-C	-8.59	103.65	114.56
1	AA	792	A	C4'-C3'-O3'	8.54	122.21	109.40
13	AM	82	MET	N-CA-C	-8.51	102.45	112.92
55	BX	59	VAL	N-CA-C	8.51	119.81	106.88
38	BD	274	ARG	N-CA-C	8.50	121.75	110.53
35	BA	331	A	C2'-C3'-O3'	8.48	122.22	109.50
45	BN	25	ARG	N-CA-C	-8.48	101.32	112.34
2	AB	23	ARG	N-CA-C	-8.46	101.78	114.64
28	B3	11	SER	CA-C-N	8.45	128.15	119.19
28	B3	11	SER	C-N-CA	8.45	128.15	119.19
24	AY	280	MET	CA-C-N	8.42	128.56	120.31
24	AY	280	MET	C-N-CA	8.42	128.56	120.31
38	BD	250	TRP	N-CA-C	8.40	122.87	113.21
15	AO	6	GLU	N-CA-C	-8.40	102.13	111.28
4	AD	53	ASP	N-CA-C	-8.39	100.79	111.02
17	AQ	71	PHE	N-CA-C	8.36	120.28	108.74
38	BD	73	VAL	N-CA-C	8.35	119.86	108.17
3	AC	44	GLU	N-CA-C	-8.34	103.26	113.19
1	AA	1239	A	C2'-C3'-O3'	8.32	121.99	109.50
35	BA	1558	A	C2'-C3'-O3'	8.32	121.97	109.50
1	AA	115	G	C2'-C3'-O3'	8.29	121.94	109.50
51	BT	124	ASP	N-CA-C	-8.28	102.77	113.12
52	BU	70	ARG	N-CA-C	-8.27	103.33	113.41
51	BT	22	PHE	N-CA-C	8.26	119.53	107.88
45	BN	32	THR	N-CA-C	-8.26	102.24	111.07
1	AA	30	U	C2'-C3'-O3'	8.25	121.88	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BE	168	MET	N-CA-C	8.24	121.56	110.35
54	BW	10	VAL	N-CA-C	8.19	118.29	110.42
50	BS	20	ARG	N-CA-C	8.17	123.29	108.17
14	AN	37	PHE	N-CA-C	8.17	123.81	112.45
40	BF	111	ALA	N-CA-C	-8.14	102.35	111.71
35	BA	614(C)	A	C2'-C3'-O3'	8.13	121.69	109.50
37	BC	181	PRO	N-CA-C	8.12	120.61	110.70
37	BC	134	ARG	N-CA-C	-8.11	100.13	111.81
35	BA	1819	A	C4'-C3'-O3'	8.11	121.56	109.40
52	BU	28	ARG	N-CA-C	-8.08	101.41	111.11
39	BE	156	MET	N-CA-C	8.04	118.56	108.19
47	BP	86	LYS	N-CA-C	-8.02	102.75	112.54
33	B8	54	GLU	N-CA-C	-8.02	102.54	111.28
24	AY	392	ASN	CA-C-N	8.01	136.84	121.54
24	AY	392	ASN	C-N-CA	8.01	136.84	121.54
1	AA	1256	A	C4'-C3'-O3'	-7.98	101.03	113.00
50	BS	50	SER	N-CA-C	7.97	127.77	110.80
41	BG	67	LYS	CA-C-N	7.96	129.80	119.84
41	BG	67	LYS	C-N-CA	7.96	129.80	119.84
32	B7	3	ARG	N-CA-C	7.95	122.52	109.96
38	BD	210	GLY	N-CA-C	-7.94	94.36	113.18
13	AM	93	ARG	N-CA-C	-7.91	102.66	111.28
46	BO	37	ASP	N-CA-C	7.90	120.96	110.53
33	B8	47	LYS	N-CA-C	7.90	119.05	108.38
38	BD	7	LYS	CA-C-N	7.90	129.71	119.84
38	BD	7	LYS	C-N-CA	7.90	129.71	119.84
1	AA	109	A	C2'-C3'-O3'	7.89	121.34	109.50
53	BV	70	ILE	N-CA-C	-7.89	98.57	109.46
16	AP	25	ARG	N-CA-C	7.88	123.20	113.50
47	BP	41	ARG	N-CA-C	-7.88	93.81	107.20
36	BB	56	G	C2'-C3'-O3'	7.86	121.30	109.50
41	BG	34	LEU	N-CA-C	-7.86	99.42	110.50
12	AL	53	ARG	N-CA-C	7.86	122.08	110.30
24	AY	76	GLN	CA-CB-CG	-7.85	98.40	114.10
8	AH	100	ILE	CA-C-N	7.85	128.32	119.92
8	AH	100	ILE	C-N-CA	7.85	128.32	119.92
16	AP	20	VAL	N-CA-C	7.84	118.70	107.88
57	BZ	72	ARG	N-CA-C	-7.84	103.73	113.38
51	BT	80	SER	N-CA-C	7.81	127.08	109.81
1	AA	1399	C	C4'-C3'-O3'	7.81	121.11	109.40
1	AA	388	G	C2'-C3'-O3'	7.78	121.17	109.50
54	BW	53	SER	N-CA-C	-7.77	103.79	112.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	AP	61	SER	N-CA-C	7.76	121.20	112.97
46	BO	100	GLY	CA-C-N	7.76	127.71	120.03
46	BO	100	GLY	C-N-CA	7.76	127.71	120.03
24	AY	189	GLU	CA-CB-CG	-7.75	98.61	114.10
35	BA	669	G	N9-C1'-C2'	7.75	123.62	112.00
1	AA	1504	G	C4'-C3'-O3'	7.71	120.97	109.40
2	AB	25	ASN	N-CA-C	-7.70	97.63	109.64
6	AF	43	LEU	N-CA-C	-7.68	103.17	112.54
41	BG	4	ASP	N-CA-C	7.68	120.98	108.55
49	BR	25	ALA	N-CA-C	-7.65	101.68	111.02
38	BD	70	TRP	N-CA-C	-7.64	103.02	112.88
1	AA	197	A	C2'-C3'-O3'	7.64	120.96	109.50
3	AC	53	ALA	N-CA-C	-7.63	98.31	110.14
45	BN	114	ARG	N-CA-C	-7.63	102.65	110.97
37	BC	83	ILE	N-CA-C	-7.61	101.25	111.44
38	BD	49	ILE	N-CA-C	7.60	119.86	108.23
49	BR	67	LEU	N-CA-C	-7.60	102.97	111.71
26	B1	6	GLU	N-CA-C	7.59	120.63	111.82
39	BE	190	GLY	CA-C-N	7.57	129.30	119.84
39	BE	190	GLY	C-N-CA	7.57	129.30	119.84
1	AA	508	C	C4'-C3'-O3'	7.55	120.73	109.40
6	AF	11	ASN	CA-C-N	7.54	127.19	119.19
6	AF	11	ASN	C-N-CA	7.54	127.19	119.19
4	AD	207	TYR	N-CA-C	7.54	120.34	109.71
19	AS	22	LEU	N-CA-C	-7.54	103.18	112.38
31	B6	49	HIS	N-CA-C	7.54	121.88	109.06
29	B4	38	LYS	N-CA-C	-7.54	103.09	113.56
47	BP	28	GLY	N-CA-C	-7.53	95.34	113.18
8	AH	7	ALA	N-CA-C	-7.52	101.84	111.02
12	AL	23	LYS	N-CA-C	7.52	121.55	112.38
37	BC	62	VAL	N-CA-C	7.52	118.72	107.75
55	BX	21	PHE	N-CA-C	-7.52	104.51	112.93
38	BD	155	LEU	N-CA-C	7.51	121.74	109.72
28	B3	48	GLU	N-CA-C	-7.50	103.04	111.07
37	BC	28	LEU	N-CA-C	7.49	122.24	113.18
2	AB	28	PHE	N-CA-C	-7.49	103.46	112.59
25	B0	9	SER	N-CA-C	7.48	118.43	107.88
40	BF	113	ALA	N-CA-C	-7.48	104.00	113.43
3	AC	135	LYS	N-CA-C	-7.44	102.86	110.97
35	BA	2496	C	C3'-C2'-O2'	7.44	121.85	110.70
45	BN	73	THR	N-CA-C	7.43	121.07	107.99
45	BN	16	ILE	N-CA-C	7.41	118.79	108.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BC	220	PRO	N-CA-C	7.41	122.36	110.21
24	AY	393	PHE	CA-C-O	7.40	131.10	120.51
1	AA	243	A	C2'-C3'-O3'	7.39	120.58	109.50
21	AU	18	TYR	CB-CA-C	-7.36	105.20	114.40
19	AS	17	GLU	N-CA-C	-7.32	104.47	113.19
42	BH	20	ALA	CA-C-N	7.32	126.95	119.19
42	BH	20	ALA	C-N-CA	7.32	126.95	119.19
4	AD	91	SER	N-CA-C	-7.31	102.48	111.40
24	AY	446	PHE	N-CA-C	-7.31	103.25	111.07
35	BA	1155	A	C4'-C3'-O3'	-7.31	102.04	113.00
50	BS	19	LYS	N-CA-C	-7.30	102.66	113.61
38	BD	87	ASN	N-CA-C	7.29	120.10	111.71
32	B7	30	VAL	N-CA-C	-7.29	105.54	111.81
35	BA	71	A	C2'-C3'-O3'	7.29	120.43	109.50
39	BE	31	CYS	CA-C-N	7.27	128.93	119.84
39	BE	31	CYS	C-N-CA	7.27	128.93	119.84
11	AK	98	LEU	N-CA-C	7.27	118.85	111.07
1	AA	495	A	C2'-C3'-O3'	7.27	120.40	109.50
37	BC	219	GLY	CA-C-N	7.26	131.13	120.46
37	BC	219	GLY	C-N-CA	7.26	131.13	120.46
41	BG	89	GLY	N-CA-C	-7.25	98.40	110.80
11	AK	50	TYR	N-CA-C	7.24	119.32	110.41
40	BF	29	ASN	CA-C-N	7.24	128.89	119.84
40	BF	29	ASN	C-N-CA	7.24	128.89	119.84
38	BD	275	LYS	N-CA-C	7.23	120.81	109.96
12	AL	51	ALA	N-CA-C	7.23	119.15	108.60
16	AP	11	SER	N-CA-C	7.23	117.78	108.24
2	AB	92	TYR	N-CA-C	7.22	117.80	108.34
55	BX	27	THR	N-CA-C	7.22	120.45	109.62
39	BE	6	GLY	N-CA-C	7.20	120.27	110.69
57	BZ	170	THR	N-CA-C	-7.19	99.67	110.24
9	AI	96	LEU	N-CA-C	-7.19	104.66	113.50
24	AY	268	MET	N-CA-C	-7.18	103.53	111.36
7	AG	97	GLN	N-CA-C	-7.17	103.20	112.23
30	B5	17	ASP	N-CA-C	-7.15	102.68	111.33
26	B1	16	ASN	N-CA-C	7.14	121.14	109.85
24	AY	225	GLN	N-CA-C	-7.13	104.61	113.38
25	B0	65	GLY	N-CA-C	7.13	120.86	110.80
12	AL	93	LEU	CA-C-N	7.12	128.74	119.84
12	AL	93	LEU	C-N-CA	7.12	128.74	119.84
52	BU	38	THR	N-CA-C	-7.12	104.07	112.89
57	BZ	33	LEU	N-CA-C	7.09	120.17	109.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	BZ	4	ARG	N-CA-C	7.09	121.11	109.06
24	AY	324	LYS	CA-CB-CG	-7.09	99.92	114.10
57	BZ	113	ALA	N-CA-C	-7.08	101.39	110.53
24	AY	191	TYR	CB-CG-CD1	-7.07	110.19	120.80
35	BA	1155	A	C3'-C2'-O2'	7.06	121.29	110.70
9	AI	76	ALA	N-CA-C	-7.05	103.52	111.14
46	BO	9	GLU	N-CA-C	-7.04	99.12	110.32
41	BG	131	TYR	N-CA-C	7.04	120.40	109.07
1	AA	79	G	C2'-C3'-O3'	7.04	120.06	109.50
3	AC	70	VAL	N-CA-C	7.04	118.30	108.23
57	BZ	100	VAL	CA-C-N	7.03	127.42	119.83
57	BZ	100	VAL	C-N-CA	7.03	127.42	119.83
2	AB	165	VAL	N-CA-C	-7.00	105.02	111.67
3	AC	77	ILE	N-CA-C	-7.00	106.09	111.62
27	B2	64	LEU	N-CA-C	-6.99	103.66	111.28
41	BG	91	ARG	N-CA-C	6.98	119.00	108.46
39	BE	85	ASN	CA-C-N	6.97	128.56	119.84
39	BE	85	ASN	C-N-CA	6.97	128.56	119.84
51	BT	59	THR	N-CA-C	-6.96	97.07	108.41
49	BR	50	HIS	N-CA-C	-6.96	103.78	111.36
1	AA	1157	A	C2'-C3'-O3'	6.95	119.92	109.50
24	AY	348	PHE	N-CA-C	6.94	120.17	108.02
14	AN	50	LYS	N-CA-C	-6.94	101.98	111.56
54	BW	57	ASN	N-CA-C	-6.94	104.70	113.72
36	BB	34	U	C2'-C3'-O3'	-6.93	103.31	113.70
47	BP	88	LEU	N-CA-C	-6.92	104.47	113.12
24	AY	171	TRP	N-CA-C	6.92	121.44	109.82
41	BG	178	PHE	CA-C-N	6.91	128.48	119.84
41	BG	178	PHE	C-N-CA	6.91	128.48	119.84
3	AC	175	LEU	N-CA-C	-6.91	104.58	112.87
37	BC	175	VAL	N-CA-C	-6.90	104.12	110.82
35	BA	864	G	N9-C1'-C2'	6.90	122.35	112.00
35	BA	1495	A	N9-C1'-C2'	6.90	122.35	112.00
39	BE	65	GLY	N-CA-C	-6.89	104.46	112.73
9	AI	86	VAL	N-CA-C	-6.89	103.70	113.07
5	AE	34	VAL	N-CA-C	6.88	117.44	108.35
8	AH	123	GLU	N-CA-C	6.88	118.44	111.07
4	AD	106	TYR	N-CA-C	-6.87	103.73	111.14
10	AJ	21	GLN	N-CA-C	-6.86	104.89	113.18
12	AL	127	GLU	N-CA-C	6.85	121.09	113.21
40	BF	44	ARG	N-CA-C	-6.84	104.81	113.43
53	BV	6	LYS	N-CA-C	6.84	119.42	108.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	BS	106	ARG	N-CA-C	-6.83	103.83	111.28
35	BA	1541	G	C2'-C3'-O3'	6.83	119.75	109.50
47	BP	62	LEU	CA-C-N	6.82	128.37	119.84
47	BP	62	LEU	C-N-CA	6.82	128.37	119.84
1	AA	1101	A	C2'-C3'-O3'	6.82	119.73	109.50
13	AM	32	GLU	N-CA-C	-6.82	103.97	112.90
26	B1	4	VAL	N-CA-C	6.80	117.43	107.37
40	BF	20	LEU	N-CA-C	6.79	117.55	108.38
38	BD	211	ARG	N-CA-C	-6.79	96.34	110.80
14	AN	13	THR	CA-C-N	6.78	128.32	119.84
14	AN	13	THR	C-N-CA	6.78	128.32	119.84
56	BY	65	ALA	CA-C-N	6.78	128.31	119.84
56	BY	65	ALA	C-N-CA	6.78	128.31	119.84
2	AB	173	ALA	N-CA-C	-6.77	103.82	111.07
35	BA	1650	G	C3'-C2'-O2'	6.77	120.86	110.70
35	BA	783	A	C4'-C3'-O3'	6.76	123.14	113.00
6	AF	83	ASP	N-CA-C	-6.75	105.17	113.41
37	BC	100	ILE	N-CA-C	-6.75	104.75	111.77
41	BG	55	LYS	N-CA-C	-6.75	104.01	111.36
24	AY	189	GLU	N-CA-C	6.74	119.05	107.93
2	AB	162	ILE	CB-CA-C	-6.74	105.41	111.74
6	AF	11	ASN	N-CA-C	-6.74	101.29	109.57
7	AG	84	ASN	N-CA-C	6.74	120.64	107.57
38	BD	147	LEU	N-CA-C	6.74	118.42	111.14
42	BH	157	TYR	N-CA-C	-6.73	102.19	111.28
4	AD	10	ARG	N-CA-C	-6.73	103.09	112.45
4	AD	109	GLY	N-CA-C	-6.73	106.46	115.21
10	AJ	55	LYS	CA-C-N	-6.73	113.92	123.20
10	AJ	55	LYS	C-N-CA	-6.73	113.92	123.20
3	AC	77	ILE	CB-CA-C	-6.71	105.08	111.05
38	BD	8	PRO	N-CA-C	6.71	126.30	112.47
40	BF	130	ALA	N-CA-C	-6.71	105.24	113.50
17	AQ	58	GLU	N-CA-C	-6.71	101.87	110.19
13	AM	62	ASN	N-CA-C	6.71	120.08	112.97
57	BZ	154	ASP	N-CA-C	-6.71	105.07	112.72
42	BH	71	LEU	N-CA-C	-6.70	103.90	111.14
24	AY	289	VAL	N-CA-CB	-6.69	103.05	111.41
37	BC	180	PHE	CA-C-N	6.68	127.27	120.38
37	BC	180	PHE	C-N-CA	6.68	127.27	120.38
39	BE	74	PRO	N-CA-C	6.68	121.57	111.14
37	BC	30	LYS	N-CA-C	-6.68	104.27	112.88
35	BA	654(I)	C	N1-C1'-C2'	6.68	122.02	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B6	40	CYS	CA-C-N	6.67	128.92	120.51
31	B6	40	CYS	C-N-CA	6.67	128.92	120.51
49	BR	9	LYS	N-CA-C	6.67	119.91	110.23
20	AT	97	ALA	CA-C-N	6.67	128.18	119.84
20	AT	97	ALA	C-N-CA	6.67	128.18	119.84
56	BY	69	ALA	N-CA-C	-6.67	105.21	113.15
1	AA	547	A	C2'-C3'-O3'	6.66	119.49	109.50
3	AC	138	VAL	N-CA-C	-6.66	104.31	112.76
27	B2	44	LEU	N-CA-C	-6.65	102.06	111.24
6	AF	44	GLY	N-CA-C	6.65	117.78	111.67
35	BA	2610	C	C2'-C3'-O3'	6.65	119.47	109.50
35	BA	1835	G	C5'-C4'-C3'	-6.64	106.03	116.00
57	BZ	117	LEU	N-CA-C	6.64	119.92	109.96
4	AD	32	ALA	N-CA-C	-6.63	96.67	110.80
3	AC	152	ILE	N-CA-C	6.63	117.58	107.77
35	BA	1187	G	N9-C1'-C2'	6.63	121.94	112.00
37	BC	88	GLU	N-CA-C	-6.63	103.79	112.41
45	BN	29	LYS	N-CA-C	-6.63	103.67	111.03
37	BC	82	LYS	N-CA-C	-6.61	105.08	113.02
51	BT	11	GLU	N-CA-C	-6.61	104.47	112.54
35	BA	1378	A	C2'-C3'-O3'	6.61	119.41	109.50
1	AA	266	G	C2'-C3'-O3'	6.59	123.59	113.70
52	BU	105	VAL	N-CA-C	-6.59	104.39	112.76
2	AB	221	LEU	N-CA-C	-6.59	103.79	110.97
38	BD	193	VAL	N-CA-C	6.58	118.88	108.87
38	BD	53	PHE	N-CA-C	6.57	124.80	110.80
56	BY	19	LYS	N-CA-C	-6.56	103.23	111.11
24	AY	188	ASP	CA-C-O	-6.56	114.66	122.27
4	AD	36	ARG	CA-C-N	6.56	128.04	119.84
4	AD	36	ARG	C-N-CA	6.56	128.04	119.84
38	BD	133	LEU	N-CA-C	6.55	118.98	111.11
15	AO	70	LEU	N-CA-C	-6.55	104.14	111.28
42	BH	35	VAL	N-CA-C	6.54	116.09	108.96
24	AY	450	VAL	N-CA-C	6.53	117.22	110.36
35	BA	2200	C	C5'-C4'-C3'	-6.53	106.21	116.00
38	BD	236	GLY	N-CA-C	-6.52	97.72	113.18
46	BO	45	GLU	N-CA-C	6.51	118.11	107.23
45	BN	66	LYS	N-CA-C	-6.51	103.61	113.89
38	BD	4	LYS	N-CA-C	6.50	119.12	108.52
2	AB	122	PHE	N-CA-C	-6.50	104.20	111.28
38	BD	271	ILE	CA-C-N	6.49	130.33	121.05
38	BD	271	ILE	C-N-CA	6.49	130.33	121.05

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B6	47	THR	N-CA-C	6.49	118.39	109.18
11	AK	106	LYS	N-CA-C	6.49	120.77	112.34
1	AA	865	A	C3'-C2'-O2'	6.49	120.43	110.70
24	AY	444	LEU	CA-C-N	6.48	129.61	120.28
24	AY	444	LEU	C-N-CA	6.48	129.61	120.28
35	BA	909	A	C4'-C3'-O3'	-6.47	103.29	113.00
1	AA	1331	G	C4'-C3'-O3'	-6.46	103.30	113.00
40	BF	65	TRP	CA-C-N	6.46	127.92	119.84
40	BF	65	TRP	C-N-CA	6.46	127.92	119.84
38	BD	13	ARG	N-CA-C	-6.46	105.33	113.72
25	B0	13	GLY	N-CA-C	6.45	128.47	113.18
1	AA	961	U	N1-C1'-C2'	-6.44	102.34	112.00
41	BG	88	ILE	N-CA-C	6.44	116.85	108.35
17	AQ	57	VAL	N-CA-C	6.44	116.85	108.35
35	BA	199	A	C5'-C4'-C3'	6.44	124.85	115.20
1	AA	1181	G	N9-C1'-C2'	6.43	121.64	112.00
35	BA	1653	G	C2'-C3'-O3'	6.42	119.14	109.50
36	BB	67	G	N9-C1'-C2'	-6.42	104.36	114.00
30	B5	3	LYS	N-CA-C	6.42	119.80	109.79
47	BP	128	HIS	N-CA-C	-6.42	104.15	112.68
1	AA	1529	G	N9-C1'-C2'	6.41	123.61	114.00
4	AD	11	LEU	N-CA-C	-6.41	104.72	112.54
54	BW	105	VAL	N-CA-C	6.41	117.94	108.45
11	AK	120	ARG	N-CA-C	-6.39	102.00	109.93
50	BS	98	VAL	N-CA-C	6.39	122.64	109.34
29	B4	28	LYS	CA-C-N	6.39	126.88	119.47
29	B4	28	LYS	C-N-CA	6.39	126.88	119.47
35	BA	252	G	C3'-C2'-O2'	6.38	120.27	110.70
54	BW	8	ARG	N-CA-C	6.38	119.80	110.17
56	BY	21	LYS	N-CA-C	-6.38	104.38	111.71
37	BC	152	ILE	N-CA-C	-6.38	104.34	113.07
46	BO	31	LYS	N-CA-C	6.37	120.79	112.89
12	AL	105	TYR	CB-CA-C	-6.37	108.21	115.79
35	BA	2897	U	C2'-C3'-O3'	6.37	123.25	113.70
51	BT	9	LEU	N-CA-C	-6.36	105.34	113.23
3	AC	161	GLU	N-CA-C	-6.36	104.40	111.71
2	AB	11	LEU	N-CA-C	-6.35	104.79	112.54
2	AB	166	ASP	CA-C-N	6.35	127.78	119.84
2	AB	166	ASP	C-N-CA	6.35	127.78	119.84
31	B6	23	THR	N-CA-C	6.34	124.31	110.80
35	BA	1273	U	C4'-C3'-O3'	-6.34	103.49	113.00
4	AD	93	PHE	N-CA-C	-6.34	104.06	110.97

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	B8	17	THR	N-CA-C	6.34	119.10	110.35
36	BB	75	G	C3'-C2'-O2'	6.34	120.21	110.70
29	B4	37	SER	N-CA-C	-6.33	102.62	110.41
54	BW	85	VAL	N-CA-C	6.33	116.74	107.37
2	AB	219	VAL	N-CA-C	-6.33	103.72	110.36
6	AF	65	VAL	N-CA-C	6.32	119.38	108.95
24	AY	447	ASP	N-CA-C	-6.32	103.69	111.33
55	BX	56	THR	N-CA-C	6.31	119.70	110.17
35	BA	244	A	C4'-C3'-O3'	-6.31	103.53	113.00
32	B7	6	GLN	CA-C-N	6.31	126.32	119.89
32	B7	6	GLN	C-N-CA	6.31	126.32	119.89
35	BA	896	A	C3'-C2'-O2'	6.30	120.16	110.70
20	AT	52	ALA	N-CA-C	-6.30	103.72	111.40
35	BA	1613	G	C3'-C2'-O2'	6.30	120.15	110.70
39	BE	148	GLY	N-CA-C	-6.30	106.55	115.30
5	AE	36	ASP	N-CA-C	-6.29	103.75	112.30
57	BZ	124	ILE	N-CA-C	6.29	122.42	109.34
13	AM	12	ASN	N-CA-C	6.28	124.18	110.80
48	BQ	5	ARG	N-CA-C	-6.28	97.42	110.80
2	AB	16	HIS	N-CA-C	6.28	120.25	112.03
1	AA	19	C	C3'-C2'-O2'	6.27	120.11	110.70
18	AR	56	THR	N-CA-C	-6.27	105.38	113.16
51	BT	28	VAL	N-CA-C	6.27	122.38	109.34
6	AF	50	TYR	CA-C-N	6.26	127.66	119.84
6	AF	50	TYR	C-N-CA	6.26	127.66	119.84
22	AV	76	A	C4'-C3'-O3'	6.26	122.39	113.00
24	AY	444	LEU	O-C-N	-6.24	114.29	122.59
39	BE	102	VAL	N-CA-C	6.24	118.37	108.89
42	BH	133	VAL	CA-C-N	6.22	129.71	120.87
42	BH	133	VAL	C-N-CA	6.22	129.71	120.87
35	BA	2422	A	C2'-C3'-O3'	6.22	123.03	113.70
1	AA	968	A	C2'-C3'-O3'	6.22	118.83	109.50
55	BX	8	ILE	N-CA-C	-6.22	103.27	110.05
9	AI	108	VAL	N-CA-C	6.21	118.03	109.46
38	BD	72	LYS	N-CA-C	6.21	119.08	108.02
1	AA	687	A	C2'-C3'-O3'	6.21	118.81	109.50
35	BA	1978	A	C3'-C2'-O2'	6.21	120.01	110.70
35	BA	2346	A	N9-C1'-C2'	6.21	123.31	114.00
2	AB	59	GLU	N-CA-C	-6.20	104.44	111.14
24	AY	510	ASN	N-CA-C	-6.20	105.29	112.92
24	AY	454	LYS	N-CA-C	-6.20	105.37	113.12
49	BR	5	LYS	N-CA-C	-6.20	103.13	111.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	BS	44	LYS	N-CA-C	-6.19	105.63	113.43
41	BG	54	GLU	N-CA-C	-6.19	105.56	113.23
9	AI	93	ARG	N-CA-C	-6.18	104.71	112.93
12	AL	60	LEU	N-CA-C	6.17	119.58	109.76
1	AA	799	G	C4'-C3'-O3'	-6.17	103.74	113.00
47	BP	127	ALA	N-CA-C	6.17	117.25	108.74
47	BP	6	LEU	N-CA-C	6.16	118.73	110.35
1	AA	202	U	C4'-C3'-O3'	6.16	118.64	109.40
35	BA	1427	A	C2'-C3'-O3'	6.16	118.73	109.50
39	BE	52	LEU	CA-C-N	6.15	127.52	119.84
39	BE	52	LEU	C-N-CA	6.15	127.52	119.84
1	AA	686	U	N1-C1'-C2'	6.15	123.22	114.00
7	AG	57	GLU	CA-C-N	6.15	127.52	119.84
7	AG	57	GLU	C-N-CA	6.15	127.52	119.84
1	AA	243	A	N9-C1'-C2'	6.14	123.22	114.00
15	AO	84	LYS	N-CA-C	6.14	118.95	111.82
24	AY	393	PHE	CA-C-N	6.14	135.04	123.55
24	AY	393	PHE	C-N-CA	6.14	135.04	123.55
36	BB	44	G	C4'-C3'-O3'	-6.14	103.79	113.00
53	BV	5	VAL	N-CA-C	6.14	116.77	108.17
1	AA	961	U	C4'-C3'-O3'	6.14	122.21	113.00
53	BV	21	ARG	N-CA-C	-6.14	102.26	110.55
11	AK	36	ASP	N-CA-C	6.14	120.03	112.54
40	BF	52	LYS	N-CA-C	6.13	118.28	107.61
36	BB	35	U	N1-C1'-C2'	6.13	121.19	112.00
40	BF	157	VAL	N-CA-C	6.12	115.89	108.06
1	AA	484	G	C2'-C3'-O3'	6.12	118.68	109.50
55	BX	37	THR	N-CA-C	-6.12	104.55	112.68
39	BE	94	GLU	N-CA-C	-6.11	104.92	112.38
1	AA	573	A	N9-C1'-C2'	6.11	121.16	112.00
14	AN	11	LYS	N-CA-C	6.10	117.93	111.28
46	BO	14	THR	N-CA-C	-6.10	105.93	113.19
1	AA	1395	C	N1-C1'-C2'	6.09	121.13	112.00
24	AY	269	LEU	N-CA-C	6.08	118.69	111.33
14	AN	44	LEU	N-CA-C	6.08	117.60	110.97
1	AA	1498	U	C4'-C3'-O3'	6.07	118.51	109.40
9	AI	92	TYR	N-CA-C	-6.07	104.47	112.72
50	BS	102	ALA	N-CA-C	-6.07	97.88	110.80
15	AO	72	ARG	N-CA-C	6.07	117.58	110.97
24	AY	212	ASN	CA-C-N	6.05	127.40	119.84
24	AY	212	ASN	C-N-CA	6.05	127.40	119.84
1	AA	1325	C	C2'-C3'-O3'	6.04	122.77	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	B3	24	LYS	N-CA-C	-6.04	105.91	113.28
52	BU	104	GLN	N-CA-C	-6.04	104.90	112.93
7	AG	148	ASN	N-CA-C	-6.03	104.30	112.26
5	AE	121	LYS	N-CA-C	6.03	118.23	108.34
18	AR	31	LEU	N-CA-C	-6.03	102.30	110.68
53	BV	14	VAL	N-CA-C	6.02	118.38	108.99
38	BD	115	GLN	CA-C-N	-6.01	114.64	123.05
38	BD	115	GLN	C-N-CA	-6.01	114.64	123.05
38	BD	164	GLN	N-CA-C	6.01	117.65	108.52
53	BV	3	ALA	N-CA-C	6.01	118.20	109.07
37	BC	102	LYS	N-CA-C	-6.00	104.11	112.45
35	BA	2880	C	N1-C1'-C2'	6.00	121.00	112.00
4	AD	83	SER	N-CA-C	-6.00	104.08	111.33
54	BW	51	LEU	N-CA-C	-6.00	104.11	112.45
45	BN	67	LEU	N-CA-C	-5.99	99.04	108.63
7	AG	143	ARG	N-CA-C	-5.99	105.97	113.28
1	AA	813	U	N1-C1'-C2'	5.99	120.98	112.00
24	AY	310	LYS	N-CA-C	-5.99	98.05	110.80
35	BA	1012	U	N1-C1'-C2'	5.99	122.98	114.00
7	AG	45	ASP	N-CA-C	-5.99	103.52	111.24
51	BT	125	ARG	N-CA-C	-5.98	105.63	113.17
53	BV	11	GLN	N-CA-C	5.98	118.48	108.73
12	AL	11	VAL	N-CA-C	-5.98	106.98	112.96
38	BD	12	SER	N-CA-C	-5.98	104.42	113.51
1	AA	623	C	C4'-C3'-O3'	-5.97	104.04	113.00
1	AA	1335	C	C4'-C3'-O3'	-5.97	104.05	113.00
48	BQ	41	TRP	CA-C-N	-5.97	115.36	123.12
48	BQ	41	TRP	C-N-CA	-5.97	115.36	123.12
17	AQ	27	PHE	CA-C-N	5.96	126.43	119.99
17	AQ	27	PHE	C-N-CA	5.96	126.43	119.99
37	BC	219	GLY	N-CA-C	5.96	124.50	112.34
3	AC	56	ASP	N-CA-C	5.96	119.30	110.48
7	AG	145	ALA	N-CA-C	-5.96	102.80	110.19
51	BT	103	ARG	N-CA-C	-5.96	106.55	113.88
51	BT	126	ALA	N-CA-C	-5.96	104.17	112.45
41	BG	6	ALA	N-CA-C	-5.96	103.56	111.24
24	AY	252	THR	CA-C-O	5.96	125.29	119.22
57	BZ	96	VAL	N-CA-C	5.95	118.45	108.81
18	AR	86	VAL	N-CA-C	5.95	117.15	108.58
39	BE	23	VAL	N-CA-C	5.95	116.09	107.88
35	BA	2365	G	N9-C1'-C2'	5.95	120.92	112.00
39	BE	7	VAL	N-CA-C	5.95	116.68	108.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	BR	89	ASP	N-CA-C	-5.94	105.69	113.12
2	AB	159	PRO	N-CA-C	-5.94	102.50	111.41
17	AQ	89	LEU	N-CA-C	-5.94	104.88	111.36
35	BA	443	A	N9-C1'-C2'	5.94	120.91	112.00
53	BV	18	LEU	CA-CB-CG	5.94	137.08	116.30
4	AD	171	GLY	CA-C-N	5.92	127.24	119.84
4	AD	171	GLY	C-N-CA	5.92	127.24	119.84
42	BH	81	GLU	N-CA-C	5.92	119.41	111.24
54	BW	48	ALA	N-CA-C	-5.92	106.19	113.41
48	BQ	16	ARG	N-CA-C	5.92	118.41	109.41
8	AH	69	ARG	N-CA-C	5.92	119.60	108.65
35	BA	15	G	C3'-C2'-O2'	5.92	119.57	110.70
7	AG	59	LEU	N-CA-C	-5.91	104.02	111.11
4	AD	127	THR	N-CA-C	5.91	118.84	107.44
24	AY	488	LYS	N-CA-C	-5.91	104.66	112.34
38	BD	204	ILE	N-CA-C	-5.91	101.06	109.51
1	AA	1481	U	C3'-C2'-O2'	5.90	119.55	110.70
5	AE	13	ILE	N-CA-C	-5.90	99.98	108.42
37	BC	77	ILE	N-CA-C	-5.90	104.76	110.42
50	BS	33	LYS	N-CA-C	5.90	120.47	113.28
13	AM	116	THR	N-CA-C	5.90	123.36	110.80
9	AI	115	GLY	N-CA-C	-5.89	107.68	114.69
20	AT	60	GLU	N-CA-C	-5.89	104.04	111.11
20	AT	72	LEU	N-CA-C	-5.89	100.73	109.86
25	B0	49	LYS	N-CA-C	-5.89	101.58	110.24
46	BO	13	ASN	N-CA-C	5.89	119.53	112.93
30	B5	58	LEU	N-CA-C	5.89	119.65	110.17
42	BH	92	ILE	N-CA-C	5.89	117.33	110.62
24	AY	158	VAL	N-CA-C	-5.89	106.03	112.80
8	AH	93	VAL	N-CA-C	5.88	116.08	107.37
50	BS	47	THR	N-CA-C	5.88	118.36	107.60
45	BN	71	ILE	N-CA-C	5.88	116.53	107.78
40	BF	13	SER	CA-C-N	5.87	127.18	119.84
40	BF	13	SER	C-N-CA	5.87	127.18	119.84
51	BT	79	HIS	N-CA-C	5.87	118.79	108.75
14	AN	31	ARG	N-CA-C	5.87	118.76	109.96
57	BZ	51	ALA	N-CA-C	-5.87	106.76	114.04
1	AA	1188	A	C5'-C4'-C3'	-5.87	107.20	116.00
11	AK	75	TYR	N-CA-C	-5.87	105.31	112.88
15	AO	56	LEU	N-CA-C	5.87	118.15	111.11
26	B1	21	ARG	N-CA-C	5.86	117.97	108.41
35	BA	972	G	N9-C1'-C2'	5.86	120.79	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BC	149	ILE	N-CA-C	5.86	121.53	109.34
10	AJ	16	LEU	N-CA-C	5.85	118.54	111.40
35	BA	2365	G	C4'-C3'-O3'	-5.85	104.23	113.00
35	BA	30	G	N9-C1'-C2'	5.85	120.77	112.00
53	BV	19	LYS	N-CA-C	5.85	123.26	110.80
8	AH	98	LYS	N-CA-C	-5.84	106.00	113.01
12	AL	43	VAL	CB-CA-C	-5.82	103.21	111.19
18	AR	53	ARG	N-CA-C	-5.82	105.02	111.71
50	BS	93	LYS	N-CA-C	-5.82	98.40	110.80
51	BT	60	THR	N-CA-C	5.82	119.39	107.69
39	BE	19	ARG	N-CA-C	5.82	123.19	110.80
11	AK	53	SER	N-CA-C	-5.82	105.77	112.92
35	BA	1924	C	C4'-C3'-O3'	5.81	118.12	109.40
35	BA	2822	G	C4'-C3'-O3'	-5.81	104.28	113.00
24	AY	321	VAL	CG1-CB-CG2	-5.81	98.02	110.80
35	BA	748	G	N9-C1'-C2'	5.81	120.71	112.00
26	B1	24	ALA	N-CA-C	-5.80	101.45	110.10
1	AA	1339	A	C4'-C3'-O3'	-5.80	104.30	113.00
49	BR	6	SER	N-CA-C	-5.80	98.44	110.80
20	AT	13	LEU	N-CA-C	-5.79	104.81	112.34
31	B6	25	LYS	N-CA-C	5.79	117.33	108.42
17	AQ	73	VAL	CB-CA-C	-5.78	102.58	111.71
2	AB	86	GLU	N-CA-C	-5.77	104.18	111.11
24	AY	270	ASP	N-CA-C	-5.77	106.08	113.23
35	BA	1858	G	N9-C1'-C2'	5.77	120.65	112.00
36	BB	75	G	C2'-C3'-O3'	5.77	122.35	113.70
1	AA	1138	G	N9-C1'-C2'	5.76	120.64	112.00
1	AA	1159	U	N1-C1'-C2'	5.76	122.64	114.00
8	AH	71	GLY	CA-C-N	5.76	126.22	120.52
8	AH	71	GLY	C-N-CA	5.76	126.22	120.52
52	BU	43	GLY	N-CA-C	-5.76	108.01	114.40
6	AF	2	ARG	N-CA-C	-5.76	100.75	109.85
17	AQ	92	ARG	N-CA-C	-5.75	105.09	111.36
38	BD	157	ARG	N-CA-C	5.73	119.97	113.15
46	BO	41	ALA	N-CA-C	5.73	117.78	109.07
46	BO	100	GLY	N-CA-C	5.72	124.02	112.34
39	BE	118	LYS	N-CA-C	-5.72	104.96	111.14
41	BG	25	TYR	N-CA-C	-5.72	100.92	109.96
35	BA	945	A	C1'-O4'-C4'	-5.72	103.98	109.70
35	BA	945	A	N9-C1'-C2'	5.72	122.58	114.00
38	BD	227	ASN	N-CA-C	5.72	113.16	108.07
15	AO	22	THR	N-CA-C	-5.71	106.54	112.93

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	BR	64	ARG	N-CA-C	-5.70	105.43	112.90
15	AO	37	ASN	N-CA-C	5.69	118.25	111.71
13	AM	101	GLN	N-CA-C	5.69	118.76	110.17
41	BG	44	GLY	N-CA-C	-5.69	105.04	114.48
8	AH	76	PRO	N-CA-C	5.68	122.89	111.69
9	AI	91	ASP	N-CA-C	-5.68	106.43	113.19
38	BD	136	ILE	N-CA-C	-5.68	96.61	108.88
25	B0	23	VAL	N-CA-C	5.68	116.59	108.93
5	AE	143	ARG	N-CA-C	5.68	118.74	108.69
5	AE	151	LEU	N-CA-C	-5.67	106.16	114.39
40	BF	201	VAL	N-CA-C	-5.67	105.62	113.00
40	BF	5	ALA	N-CA-C	5.67	119.15	110.36
40	BF	65	TRP	N-CA-C	5.67	114.66	108.14
15	AO	45	VAL	N-CA-C	5.67	115.75	110.42
35	BA	2452	C	N1-C1'-C2'	5.66	120.49	112.00
35	BA	2106	G	C4'-C3'-O3'	5.66	121.48	113.00
37	BC	3	HIS	N-CA-C	5.66	116.74	108.14
40	BF	81	PRO	N-CA-C	-5.65	100.82	112.47
46	BO	85	VAL	CB-CA-C	-5.65	103.01	110.98
46	BO	39	ILE	N-CA-C	5.65	117.20	108.44
47	BP	139	LYS	N-CA-C	-5.65	106.34	113.18
38	BD	82	ILE	CB-CA-C	-5.64	102.12	111.32
42	BH	28	GLY	CA-C-N	5.64	126.90	119.84
42	BH	28	GLY	C-N-CA	5.64	126.90	119.84
7	AG	33	ASP	N-CA-C	5.64	119.46	112.47
38	BD	10	THR	CB-CA-C	-5.64	102.06	110.97
35	BA	721	C	N1-C1'-C2'	5.63	120.45	112.00
31	B6	13	CYS	N-CA-C	5.63	118.73	109.72
3	AC	155	GLY	N-CA-C	-5.63	105.16	111.63
1	AA	1285	A	C2'-C3'-O3'	5.62	117.93	109.50
50	BS	104	GLY	N-CA-C	-5.62	99.87	113.18
1	AA	1442	G	N9-C1'-C2'	5.61	120.41	112.00
10	AJ	24	VAL	N-CA-C	-5.61	106.34	111.67
16	AP	10	GLY	N-CA-C	-5.60	102.89	111.24
35	BA	828	U	N1-C1'-C2'	5.60	120.40	112.00
46	BO	81	ASP	N-CA-C	5.60	117.48	109.14
35	BA	921	G	C4'-C3'-O3'	-5.60	104.60	113.00
40	BF	199	TRP	N-CA-C	-5.59	105.57	112.90
6	AF	19	LEU	N-CA-C	-5.59	104.56	111.33
36	BB	44	G	N9-C1'-C2'	5.59	120.39	112.00
51	BT	128	GLU	N-CA-C	-5.59	105.22	113.61
5	AE	86	ALA	N-CA-C	-5.59	107.11	114.04

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	674	G	C4'-C3'-O3'	-5.59	104.62	113.00
38	BD	168	ARG	N-CA-C	-5.59	99.91	109.24
52	BU	113	ALA	N-CA-C	-5.58	104.83	111.03
55	BX	75	ASP	N-CA-C	5.58	117.74	108.20
47	BP	137	LYS	N-CA-C	-5.58	106.48	113.28
3	AC	192	THR	N-CA-C	-5.57	104.90	110.97
35	BA	1835	G	C1'-C2'-O2'	5.57	116.76	108.40
35	BA	1787	A	C5'-C4'-C3'	-5.57	107.65	116.00
47	BP	30	THR	N-CA-C	5.57	122.66	110.80
1	AA	1531	A	C2'-C3'-O3'	-5.57	101.15	109.50
48	BQ	75	THR	N-CA-C	5.57	118.03	109.07
6	AF	10	LEU	N-CA-C	5.56	117.53	109.07
46	BO	80	ASP	N-CA-C	-5.56	105.85	113.30
40	BF	57	VAL	CB-CA-C	-5.56	103.96	111.63
35	BA	2128	C	N1-C1'-C2'	-5.55	103.67	112.00
42	BH	70	THR	N-CA-C	-5.55	106.20	114.64
46	BO	36	GLY	N-CA-C	-5.55	107.87	114.48
24	AY	280	MET	N-CA-C	5.55	117.67	110.40
2	AB	154	LEU	N-CA-C	-5.55	105.23	111.28
10	AJ	84	GLN	N-CA-C	5.55	117.77	111.11
14	AN	47	LEU	N-CA-C	5.54	120.02	112.04
35	BA	269	U	N1-C1'-C2'	5.54	120.31	112.00
9	AI	26	VAL	N-CA-C	5.54	116.03	107.78
13	AM	40	ASN	N-CA-C	5.54	116.63	109.65
45	BN	10	GLU	CA-C-N	5.54	126.76	119.84
45	BN	10	GLU	C-N-CA	5.54	126.76	119.84
1	AA	1501	C	C3'-C2'-O2'	5.54	119.00	110.70
2	AB	46	LYS	N-CA-C	-5.54	105.15	111.07
52	BU	102	GLU	CA-C-N	5.54	126.76	119.84
52	BU	102	GLU	C-N-CA	5.54	126.76	119.84
35	BA	1140	C	N1-C1'-C2'	5.53	120.30	112.00
30	B5	59	GLU	N-CA-C	5.53	116.95	107.28
47	BP	36	LYS	N-CA-C	5.53	122.57	110.80
57	BZ	176	PRO	CA-C-N	5.52	126.74	119.84
57	BZ	176	PRO	C-N-CA	5.52	126.74	119.84
41	BG	49	ASP	N-CA-C	5.52	118.73	111.28
35	BA	332	A	C2'-C3'-O3'	5.51	117.77	109.50
1	AA	775	G	C3'-C2'-O2'	5.51	118.96	110.70
4	AD	103	ASN	N-CA-C	-5.50	104.20	111.96
13	AM	70	LEU	N-CA-C	-5.50	105.68	112.72
39	BE	183	LEU	N-CA-C	5.50	118.44	109.59
47	BP	66	GLY	N-CA-C	-5.50	100.16	113.18

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	2779	U	N1-C1'-C2'	5.50	120.24	112.00
35	BA	1519	G	C5'-C4'-C3'	-5.49	107.76	116.00
57	BZ	10	ARG	N-CA-C	-5.49	102.15	110.28
57	BZ	75	ASN	N-CA-C	-5.48	102.17	110.28
16	AP	48	TRP	N-CA-C	-5.48	104.85	113.02
35	BA	2593	U	N1-C1'-C2'	5.48	120.22	112.00
45	BN	134	ARG	N-CA-C	5.47	118.55	109.79
10	AJ	15	THR	N-CA-C	-5.47	104.75	111.75
25	B0	78	TYR	N-CA-C	5.47	117.94	110.55
24	AY	296	PHE	N-CA-C	5.47	118.37	110.28
35	BA	1210	A	C2'-C3'-O3'	5.46	117.70	109.50
38	BD	73	VAL	CB-CA-C	-5.46	102.69	110.83
25	B0	82	ARG	CA-C-N	5.46	125.92	120.52
25	B0	82	ARG	C-N-CA	5.46	125.92	120.52
4	AD	21	LEU	N-CA-C	-5.46	107.63	114.56
35	BA	1498	C	N1-C1'-C2'	5.46	120.18	112.00
38	BD	39	LYS	N-CA-C	-5.46	99.63	108.52
51	BT	36	GLU	N-CA-C	5.46	118.65	111.28
35	BA	1248	G	N9-C1'-C2'	5.45	122.18	114.00
46	BO	109	LYS	N-CA-C	-5.45	107.64	114.56
27	B2	68	ARG	N-CA-C	5.45	122.40	110.80
1	AA	1088	G	N9-C1'-C2'	5.45	120.17	112.00
41	BG	38	VAL	N-CA-C	-5.45	101.80	109.21
51	BT	70	VAL	N-CA-C	5.45	116.72	109.37
1	AA	1191	A	C4'-C3'-O3'	-5.44	104.84	113.00
4	AD	134	ASP	N-CA-C	5.44	117.84	110.88
38	BD	245	PRO	CA-C-N	-5.44	114.10	119.92
38	BD	245	PRO	C-N-CA	-5.44	114.10	119.92
48	BQ	124	LYS	N-CA-C	-5.44	105.43	111.36
49	BR	14	SER	N-CA-C	5.44	120.29	111.37
53	BV	62	LEU	N-CA-C	-5.44	104.58	111.11
8	AH	89	PRO	N-CA-C	-5.44	105.93	113.81
5	AE	24	ARG	N-CA-C	-5.43	101.68	110.32
30	B5	47	PRO	N-CA-C	-5.43	107.09	114.80
46	BO	84	ALA	N-CA-C	5.43	117.32	109.07
17	AQ	21	VAL	N-CA-C	5.42	115.12	106.88
35	BA	945	A	C5'-C4'-O4'	5.42	117.23	109.10
2	AB	90	MET	N-CA-C	5.42	118.41	109.58
37	BC	142	ALA	N-CA-C	5.42	122.34	110.80
41	BG	98	ARG	N-CA-C	-5.42	99.26	110.80
52	BU	84	LYS	N-CA-C	-5.42	104.25	111.24
35	BA	2858	C	N1-C1'-C2'	5.41	120.12	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1652	A	C4'-C3'-O3'	-5.41	104.88	113.00
2	AB	186	ALA	N-CA-C	5.41	117.31	108.76
35	BA	801	G	N9-C1'-C2'	5.41	122.11	114.00
33	B8	59	LYS	N-CA-C	-5.40	107.05	113.97
38	BD	145	VAL	N-CA-C	5.40	114.97	108.06
27	B2	63	VAL	N-CA-C	-5.40	105.11	110.62
30	B5	6	VAL	CA-C-N	-5.40	114.20	119.76
30	B5	6	VAL	C-N-CA	-5.40	114.20	119.76
57	BZ	35	ARG	N-CA-C	5.40	117.54	107.99
36	BB	16	G	N9-C1'-C2'	-5.39	105.91	114.00
45	BN	38	HIS	N-CA-C	-5.39	105.96	112.54
7	AG	76	ARG	N-CA-C	-5.39	101.56	109.81
35	BA	527	C	N1-C1'-C2'	5.39	122.09	114.00
42	BH	113	VAL	N-CA-C	5.39	116.55	109.21
35	BA	256	A	C3'-C2'-O2'	5.39	118.78	110.70
51	BT	134	GLU	N-CA-C	5.39	118.38	110.30
1	AA	960	U	N1-C1'-C2'	5.38	122.08	114.00
3	AC	27	LYS	N-CA-C	5.38	118.06	111.82
28	B3	56	VAL	CB-CA-C	-5.38	104.07	111.49
38	BD	22	SER	N-CA-C	-5.38	105.42	111.28
48	BQ	87	LYS	N-CA-C	5.38	118.31	109.76
12	AL	84	LEU	N-CA-C	5.37	117.42	108.02
35	BA	2744	G	C4'-C3'-O3'	-5.37	104.94	113.00
24	AY	126	LEU	N-CA-C	5.37	117.13	111.28
35	BA	2111	C	N1-C1'-C2'	5.37	120.05	112.00
1	AA	1345	U	N1-C1'-C2'	5.37	122.05	114.00
35	BA	576	U	C5'-C4'-C3'	-5.37	107.95	116.00
38	BD	111	LEU	N-CA-C	-5.37	102.93	110.50
1	AA	197	A	N9-C1'-C2'	5.36	122.05	114.00
35	BA	2689	U	C2'-C3'-O3'	5.36	117.54	109.50
5	AE	15	ARG	N-CA-C	-5.36	100.92	109.23
14	AN	14	PRO	N-CA-C	5.36	123.51	112.47
5	AE	16	THR	N-CA-C	-5.36	101.15	109.24
40	BF	121	GLY	N-CA-C	-5.36	108.31	114.69
1	AA	1347	G	C2'-C3'-O3'	5.35	117.53	109.50
9	AI	9	ARG	N-CA-C	5.35	117.68	109.07
1	AA	992	U	C2'-C3'-O3'	5.34	117.52	109.50
38	BD	44	ASN	N-CA-C	5.33	116.91	108.96
1	AA	274	A	C4'-C3'-O3'	5.33	117.40	109.40
51	BT	123	GLN	N-CA-C	-5.33	107.08	113.21
10	AJ	30	SER	N-CA-C	-5.33	104.57	111.71
24	AY	126	LEU	CB-CG-CD1	-5.33	94.71	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	BT	10	VAL	N-CA-C	5.33	116.81	111.00
8	AH	28	ALA	N-CA-C	5.33	117.40	109.25
35	BA	1068	G	C2'-C3'-O3'	5.33	117.49	109.50
37	BC	215	THR	N-CA-C	5.32	118.08	109.40
45	BN	80	GLY	N-CA-C	-5.32	107.64	115.30
47	BP	47	ASP	C-N-CD	-5.32	108.89	120.60
1	AA	787	A	C4'-C3'-O3'	-5.32	105.02	113.00
5	AE	113	ALA	N-CA-C	-5.32	105.59	111.71
35	BA	645	C	N1-C1'-C2'	5.32	119.98	112.00
7	AG	93	PRO	N-CA-C	-5.32	107.21	113.86
35	BA	982	C	C4'-C3'-O3'	-5.32	105.02	113.00
24	AY	445	GLN	N-CA-C	-5.32	105.60	111.71
15	AO	58	MET	N-CA-C	-5.31	105.38	111.07
4	AD	56	VAL	N-CA-C	-5.31	105.95	111.58
3	AC	34	LEU	N-CA-C	-5.31	104.74	111.11
1	AA	232	G	C5'-C4'-C3'	-5.31	108.03	116.00
41	BG	60	LEU	N-CA-C	-5.30	105.55	112.23
1	AA	1064	G	C4'-C3'-O3'	-5.30	101.44	109.40
36	BB	6	C	C3'-C2'-O2'	5.30	118.66	110.70
39	BE	116	VAL	N-CA-C	-5.30	102.14	110.09
15	AO	38	ARG	N-CA-C	-5.30	105.41	111.14
37	BC	173	ALA	CA-C-N	5.30	126.13	119.98
37	BC	173	ALA	C-N-CA	5.30	126.13	119.98
52	BU	33	ARG	N-CA-C	-5.30	104.49	111.96
35	BA	2496	C	C1'-C2'-O2'	5.29	116.34	108.40
40	BF	93	LYS	CA-C-N	5.29	126.46	119.84
40	BF	93	LYS	C-N-CA	5.29	126.46	119.84
10	AJ	95	GLU	N-CA-C	5.29	117.52	108.90
17	AQ	73	VAL	N-CA-CB	5.29	117.03	110.05
24	AY	499	ASP	CA-C-N	-5.29	114.27	122.09
24	AY	499	ASP	C-N-CA	-5.29	114.27	122.09
26	B1	30	VAL	N-CA-C	5.29	120.33	109.34
47	BP	63	PRO	N-CA-C	5.28	123.36	112.47
35	BA	299	A	N9-C1'-C2'	5.28	119.92	112.00
8	AH	137	VAL	N-CA-C	5.28	115.32	108.35
35	BA	2296	U	C2'-C3'-O3'	-5.28	101.59	109.50
55	BX	53	LYS	N-CA-C	5.28	117.22	107.73
48	BQ	98	LYS	N-CA-C	-5.27	103.42	110.07
2	AB	146	GLN	N-CA-C	-5.27	99.57	110.80
24	AY	90	PRO	N-CA-C	-5.27	101.61	112.47
2	AB	102	LEU	N-CA-C	-5.27	99.58	110.80
6	AF	30	LEU	N-CA-C	-5.26	102.73	111.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AM	87	TYR	N-CA-C	-5.26	104.60	111.02
4	AD	145	GLU	N-CA-C	5.26	117.47	108.90
35	BA	2296	U	C3'-C2'-O2'	-5.26	106.71	114.60
1	AA	1482	G	C1'-C2'-O2'	5.25	116.28	108.40
30	B5	14	ALA	N-CA-C	-5.25	104.61	111.02
35	BA	198	C	N1-C1'-C2'	5.25	119.88	112.00
35	BA	1133	U	N1-C1'-C2'	5.25	119.88	112.00
39	BE	157	ALA	N-CA-C	5.25	117.23	107.99
47	BP	135	LEU	N-CA-C	-5.25	106.81	113.43
35	BA	752	A	C2'-C3'-O3'	5.25	121.57	113.70
2	AB	119	GLU	N-CA-C	-5.25	105.56	111.28
28	B3	8	LEU	N-CA-C	-5.25	101.22	109.25
35	BA	869	G	C3'-C2'-O2'	5.24	118.56	110.70
1	AA	569	C	C5'-C4'-C3'	-5.24	108.14	116.00
50	BS	16	ASN	N-CA-C	-5.24	106.73	113.23
1	AA	920	U	C5'-C4'-C3'	-5.24	108.14	116.00
42	BH	44	VAL	N-CA-C	-5.23	104.30	110.21
35	BA	2333	A	C2'-C3'-O3'	-5.23	105.85	113.70
3	AC	17	ASP	N-CA-C	5.23	117.02	108.55
34	B9	35	ARG	N-CA-C	5.23	121.94	110.80
1	AA	1375	A	C5'-C4'-C3'	-5.23	108.16	116.00
5	AE	28	PHE	N-CA-C	5.23	117.60	109.60
35	BA	2282	G	C4'-C3'-O3'	5.22	117.23	109.40
46	BO	69	ILE	N-CA-C	-5.22	102.78	109.30
47	BP	97	PRO	N-CA-C	-5.22	101.72	112.47
26	B1	18	ILE	N-CA-C	5.22	115.86	107.98
35	BA	2111	C	C4'-C3'-O3'	-5.21	105.18	113.00
48	BQ	130	LYS	N-CA-C	5.21	117.74	109.50
2	AB	168	THR	N-CA-C	-5.21	103.58	111.56
13	AM	86	CYS	N-CA-C	-5.21	101.78	110.17
55	BX	91	ALA	N-CA-C	-5.21	106.18	112.54
3	AC	101	LEU	N-CA-C	5.21	116.88	108.34
1	AA	982	U	C2'-C3'-O3'	5.21	117.31	109.50
15	AO	60	VAL	N-CA-C	-5.21	105.46	110.72
27	B2	32	LEU	N-CA-C	-5.21	104.67	111.02
35	BA	2269	A	C3'-C2'-O2'	5.21	118.51	110.70
1	AA	980	C	C2'-C3'-O3'	-5.20	105.89	113.70
1	AA	1305	G	N9-C1'-C2'	5.20	119.80	112.00
24	AY	253	PRO	CA-C-N	-5.20	116.36	123.12
24	AY	253	PRO	C-N-CA	-5.20	116.36	123.12
57	BZ	93	ASP	N-CA-C	-5.20	106.98	113.38
19	AS	45	VAL	N-CA-C	-5.20	101.98	108.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AC	160	ALA	N-CA-C	-5.19	103.29	110.35
24	AY	191	TYR	CD1-CE1-CZ	-5.19	110.25	119.60
36	BB	119	G	C4'-C3'-O3'	5.19	120.78	113.00
49	BR	10	LEU	N-CA-CB	-5.19	106.76	111.59
1	AA	927	G	N9-C1'-C2'	-5.19	104.22	112.00
49	BR	12	ARG	N-CA-C	-5.19	99.75	110.80
39	BE	63	LEU	N-CA-C	-5.18	105.60	112.34
26	B1	7	ILE	CB-CA-C	-5.18	105.13	111.92
40	BF	73	ALA	N-CA-C	5.18	117.95	110.28
38	BD	229	VAL	CB-CA-C	-5.18	105.25	112.04
35	BA	199	A	C5'-C4'-O4'	5.18	116.87	109.10
35	BA	857	C	C5'-C4'-C3'	-5.18	108.23	116.00
2	AB	110	GLN	N-CA-C	-5.18	106.65	113.17
5	AE	104	ALA	N-CA-C	5.18	117.66	111.71
11	AK	103	LEU	N-CA-C	5.18	118.44	110.42
37	BC	5	LYS	N-CA-C	-5.18	105.61	112.34
37	BC	202	GLU	N-CA-C	5.17	119.06	112.34
1	AA	1457	G	C3'-C2'-O2'	5.17	118.45	110.70
36	BB	50	G	C3'-C2'-O2'	5.17	118.45	110.70
49	BR	109	ALA	N-CA-C	5.17	117.44	110.31
1	AA	321	A	C4'-C3'-O3'	-5.17	105.25	113.00
1	AA	575	G	C4'-C3'-O3'	5.16	117.14	109.40
10	AJ	37	PRO	CA-C-N	-5.16	117.65	123.02
10	AJ	37	PRO	C-N-CA	-5.16	117.65	123.02
16	AP	64	ALA	N-CA-C	5.16	117.79	110.10
27	B2	31	GLU	N-CA-C	-5.16	105.73	112.23
45	BN	128	HIS	CA-C-N	5.16	126.29	119.84
45	BN	128	HIS	C-N-CA	5.16	126.29	119.84
35	BA	545	C	N1-C1'-C2'	5.16	119.74	112.00
57	BZ	71	VAL	N-CA-C	5.16	120.07	109.34
38	BD	24	ILE	N-CA-C	5.16	120.07	109.34
54	BW	45	TYR	N-CA-C	5.16	119.66	112.90
35	BA	2001	A	C3'-C2'-O2'	5.16	118.43	110.70
40	BF	66	PRO	N-CA-C	5.16	123.09	112.47
18	AR	23	LYS	N-CA-C	5.15	116.98	111.36
19	AS	58	VAL	CA-C-N	5.15	126.28	119.84
19	AS	58	VAL	C-N-CA	5.15	126.28	119.84
5	AE	150	ARG	N-CA-C	-5.15	107.29	113.21
35	BA	1835	G	C2'-C3'-O3'	5.15	121.42	113.70
10	AJ	80	LYS	N-CA-C	-5.15	105.29	112.45
35	BA	479	A	N9-C1'-C2'	5.15	121.72	114.00
24	AY	226	GLN	N-CA-C	-5.14	105.59	111.14

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1323	G	C1'-C2'-O2'	-5.14	100.69	108.40
7	AG	147	ALA	N-CA-C	-5.14	106.34	113.18
35	BA	2035	G	C5'-C4'-C3'	5.13	122.90	115.20
42	BH	135	GLY	N-CA-C	5.13	119.08	110.56
5	AE	132	ALA	N-CA-C	-5.13	105.60	111.14
35	BA	1425	G	N9-C1'-C2'	5.13	119.69	112.00
42	BH	50	VAL	N-CA-C	5.13	117.12	108.81
35	BA	2149	G	N9-C1'-C2'	5.13	119.69	112.00
38	BD	206	LEU	N-CA-C	5.13	116.95	111.36
1	AA	896	C	N1-C1'-C2'	-5.12	104.31	112.00
46	BO	104	ARG	N-CA-C	5.12	119.16	113.01
38	BD	142	VAL	N-CA-C	5.12	116.61	109.80
42	BH	67	LEU	N-CA-C	-5.12	103.10	111.04
56	BY	100	ALA	N-CA-C	5.12	118.16	109.76
12	AL	47	LYS	N-CA-C	5.12	121.13	109.81
25	B0	57	PHE	N-CA-C	-5.12	104.92	110.91
50	BS	92	TYR	CA-CB-CG	5.12	123.11	113.90
52	BU	101	ARG	N-CA-C	5.12	121.71	110.80
4	AD	204	ILE	CB-CA-C	-5.12	105.42	111.97
35	BA	2688	U	C4'-C3'-O3'	-5.12	105.33	113.00
1	AA	802	A	C5'-C4'-C3'	-5.11	108.33	116.00
35	BA	271(Q)	G	C5'-C4'-C3'	-5.11	107.53	115.20
35	BA	815	C	C3'-C2'-O2'	5.11	118.37	110.70
35	BA	2200	C	C1'-C2'-O2'	5.11	116.07	108.40
20	AT	37	SER	N-CA-C	-5.11	105.60	111.07
35	BA	1823	G	C4'-C3'-O3'	5.11	120.67	113.00
47	BP	122	PRO	N-CA-C	5.11	123.00	112.47
5	AE	109	ILE	N-CA-C	-5.11	106.70	111.45
13	AM	89	GLY	N-CA-C	-5.11	101.08	113.18
35	BA	2402	C	N1-C1'-C2'	5.11	119.66	112.00
24	AY	76	GLN	CB-CG-CD	-5.11	103.92	112.60
57	BZ	24	LEU	CA-C-N	5.10	125.83	120.11
57	BZ	24	LEU	C-N-CA	5.10	125.83	120.11
16	AP	7	ALA	N-CA-C	-5.10	102.93	110.48
22	AV	1	C	N1-C1'-C2'	5.10	119.65	112.00
35	BA	1459	G	N9-C1'-C2'	5.10	119.65	112.00
38	BD	251	GLY	N-CA-C	5.10	120.88	114.25
50	BS	48	LEU	N-CA-C	5.10	121.67	110.80
35	BA	296	C	C5'-C4'-C3'	5.10	123.65	116.00
38	BD	196	VAL	N-CA-C	5.10	116.97	109.63
15	AO	57	LEU	N-CA-C	5.10	117.24	111.02
39	BE	80	GLU	N-CA-C	5.10	116.99	108.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BE	111	ARG	N-CA-C	5.10	116.98	110.61
1	AA	802	A	C3'-C2'-O2'	5.09	118.34	110.70
39	BE	22	PRO	N-CA-C	-5.09	104.05	111.33
5	AE	103	GLY	N-CA-C	-5.09	105.79	112.82
4	AD	117	ALA	N-CA-C	-5.09	105.43	111.69
6	AF	97	PHE	N-CA-C	-5.09	100.22	108.52
8	AH	52	ASP	N-CA-C	5.09	117.64	108.48
24	AY	391	PRO	N-CA-C	-5.08	102.00	112.47
32	B7	28	ARG	N-CA-C	-5.08	106.86	113.16
35	BA	1893	C	C3'-C2'-O2'	5.08	118.32	110.70
35	BA	722	A	N9-C1'-C2'	5.08	119.62	112.00
24	AY	172	PRO	N-CA-C	5.08	118.59	111.33
27	B2	45	SER	N-CA-C	5.08	118.50	111.55
48	BQ	12	GLN	N-CA-C	5.07	116.68	108.26
35	BA	632	A	C3'-C2'-O2'	5.07	118.31	110.70
32	B7	33	ARG	N-CA-C	-5.07	107.05	113.18
38	BD	230	ASP	N-CA-C	5.07	119.17	112.89
57	BZ	163	LEU	N-CA-C	5.07	121.59	110.80
24	AY	70	ILE	N-CA-C	5.06	115.91	111.56
35	BA	1893	C	O3'-P-O5'	-5.06	96.41	104.00
42	BH	40	GLU	N-CA-C	5.06	121.58	110.80
53	BV	73	SER	N-CA-C	5.06	116.42	107.61
35	BA	477	A	N9-C1'-C2'	5.06	119.59	112.00
35	BA	980	A	N9-C1'-C2'	5.06	119.58	112.00
25	B0	45	PHE	N-CA-C	5.05	117.62	107.41
1	AA	915	A	C3'-C2'-O2'	5.05	118.28	110.70
20	AT	58	LYS	N-CA-C	-5.05	106.28	112.90
35	BA	2251	G	N9-C1'-C2'	5.05	119.57	112.00
49	BR	42	LYS	N-CA-C	5.05	117.44	111.33
4	AD	196	LEU	CA-C-N	5.05	126.15	119.84
4	AD	196	LEU	C-N-CA	5.05	126.15	119.84
35	BA	2026	C	N1-C1'-C2'	5.05	119.57	112.00
24	AY	312	ARG	CA-C-O	5.04	127.23	121.58
35	BA	1153	C	N1-C1'-C2'	5.04	119.57	112.00
47	BP	110	TYR	CB-CA-C	-5.04	110.37	117.23
46	BO	69	ILE	CB-CA-C	-5.04	103.81	111.33
51	BT	80	SER	CA-C-N	-5.04	114.88	119.82
51	BT	80	SER	C-N-CA	-5.04	114.88	119.82
1	AA	718	G	N9-C1'-C2'	5.04	119.56	112.00
4	AD	6	GLY	CA-C-N	5.04	126.14	119.84
4	AD	6	GLY	C-N-CA	5.04	126.14	119.84
25	B0	20	ARG	N-CA-C	5.04	121.53	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	892	A	C3'-C2'-O2'	5.03	118.25	110.70
9	AI	61	ALA	N-CA-C	5.03	118.22	107.70
55	BX	78	LYS	N-CA-C	5.03	117.81	107.69
35	BA	2034	U	N1-C1'-C2'	5.03	119.55	112.00
51	BT	19	LEU	CA-C-N	5.03	126.13	119.84
51	BT	19	LEU	C-N-CA	5.03	126.13	119.84
1	AA	1283	G	N9-C1'-C2'	-5.03	104.46	112.00
24	AY	244	GLU	N-CA-C	5.03	117.65	111.82
54	BW	101	SER	N-CA-C	5.03	116.35	107.61
1	AA	1373	G	C3'-C2'-O2'	5.02	118.24	110.70
24	AY	319	ARG	NE-CZ-NH1	5.02	126.52	121.50
37	BC	30	LYS	CA-C-N	5.02	129.77	122.08
37	BC	30	LYS	C-N-CA	5.02	129.77	122.08
53	BV	60	GLU	N-CA-C	5.02	117.68	109.59
55	BX	58	HIS	N-CA-C	5.02	117.60	109.06
5	AE	47	LYS	N-CA-C	-5.02	101.92	109.85
41	BG	180	PHE	N-CA-C	5.02	117.15	109.07
35	BA	243	U	C4'-C3'-O3'	-5.01	105.48	113.00
57	BZ	69	THR	N-CA-C	5.01	114.99	108.07
57	BZ	42	VAL	N-CA-C	5.01	115.44	110.23
32	B7	5	TRP	N-CA-C	5.01	117.53	107.41
35	BA	2688	U	C3'-C2'-O2'	5.01	118.22	110.70
14	AN	53	LEU	N-CA-C	5.01	117.44	108.47
35	BA	2521	C	C4'-C3'-O3'	-5.01	105.49	113.00
53	BV	25	LEU	N-CA-C	-5.01	100.87	109.24
35	BA	614	U	C3'-C2'-O2'	5.01	118.21	110.70
1	AA	508	C	C4'-C3'-C2'	5.01	107.61	102.60
1	AA	867	G	N9-C1'-C2'	5.01	119.51	112.00
49	BR	7	GLY	N-CA-C	5.00	125.04	113.18
2	AB	52	GLU	N-CA-C	-5.00	105.52	110.97
4	AD	28	SER	CA-C-N	-5.00	115.15	121.91
4	AD	28	SER	C-N-CA	-5.00	115.15	121.91
33	B8	27	THR	N-CA-C	5.00	117.93	110.52
51	BT	38	ASN	N-CA-C	5.00	116.53	108.32
2	AB	152	PHE	N-CA-C	-5.00	103.88	110.43
24	AY	223	LEU	N-CA-C	5.00	116.42	111.07

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1049	U	C3'
1	AA	1399	C	C3'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atom
1	AA	1498	U	C3'
35	BA	1300	U	C3'
35	BA	1799	G	C3'
35	BA	1819	A	C3'

All (316) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1048	G	Sidechain
1	AA	1056	U	Sidechain
1	AA	1074	G	Sidechain
1	AA	1077	G	Sidechain
1	AA	1084	G	Sidechain
1	AA	1085	U	Sidechain
1	AA	1095	U	Sidechain
1	AA	1104	G	Sidechain
1	AA	1118	C	Sidechain
1	AA	1124	G	Sidechain
1	AA	1126	U	Sidechain
1	AA	1136	U	Sidechain
1	AA	1138	G	Sidechain
1	AA	1149	C	Sidechain
1	AA	1154	G	Sidechain
1	AA	1166	G	Sidechain
1	AA	1174	G	Sidechain
1	AA	1181	G	Sidechain
1	AA	1182	G	Sidechain
1	AA	1186	G	Sidechain
1	AA	119	A	Sidechain
1	AA	1194	U	Sidechain
1	AA	1196	U	Sidechain
1	AA	12	U	Sidechain
1	AA	1205	U	Sidechain
1	AA	1216	G	Sidechain
1	AA	1220	G	Sidechain
1	AA	1225	A	Sidechain
1	AA	1231	G	Sidechain
1	AA	1235	U	Sidechain
1	AA	1268	A	Sidechain
1	AA	1277	C	Sidechain
1	AA	1281	U	Sidechain
1	AA	1283	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1300	G	Sidechain
1	AA	1305	G	Sidechain
1	AA	1309	G	Sidechain
1	AA	1317	C	Sidechain
1	AA	1319	A	Sidechain
1	AA	1322	C	Sidechain
1	AA	1323	G	Sidechain
1	AA	1331	G	Sidechain
1	AA	1338	G	Sidechain
1	AA	1345	U	Sidechain
1	AA	1361	G	Sidechain
1	AA	1364	U	Sidechain
1	AA	1368	G	Sidechain
1	AA	1370	G	Sidechain
1	AA	1374	A	Sidechain
1	AA	1393	U	Sidechain
1	AA	1396	A	Sidechain
1	AA	1408	A	Sidechain
1	AA	1409	C	Sidechain
1	AA	1442	G	Sidechain
1	AA	1481	U	Sidechain
1	AA	1498	U	Sidechain
1	AA	1501	C	Sidechain
1	AA	1512	U	Sidechain
1	AA	1519	A	Sidechain
1	AA	1528	U	Sidechain
1	AA	17	U	Sidechain
1	AA	19	C	Sidechain
1	AA	197	A	Sidechain
1	AA	226	G	Sidechain
1	AA	239	U	Sidechain
1	AA	253	U	Sidechain
1	AA	257	G	Sidechain
1	AA	266	G	Sidechain
1	AA	28	G	Sidechain
1	AA	281	G	Sidechain
1	AA	310	G	Sidechain
1	AA	345	C	Sidechain
1	AA	350	G	Sidechain
1	AA	375	U	Sidechain
1	AA	404	U	Sidechain
1	AA	405	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	429	U	Sidechain
1	AA	498	U	Sidechain
1	AA	510	A	Sidechain
1	AA	523	A	Sidechain
1	AA	549	C	Sidechain
1	AA	556	C	Sidechain
1	AA	563	A	Sidechain
1	AA	578	C	Sidechain
1	AA	653	A	Sidechain
1	AA	657	G	Sidechain
1	AA	676	A	Sidechain
1	AA	697	U	Sidechain
1	AA	710	G	Sidechain
1	AA	713	G	Sidechain
1	AA	724	G	Sidechain
1	AA	740	U	Sidechain
1	AA	746	A	Sidechain
1	AA	763	G	Sidechain
1	AA	768	A	Sidechain
1	AA	782	A	Sidechain
1	AA	793	U	Sidechain
1	AA	813	U	Sidechain
1	AA	823	G	Sidechain
1	AA	827	U	Sidechain
1	AA	835	U	Sidechain
1	AA	853	G	Sidechain
1	AA	855	G	Sidechain
1	AA	865	A	Sidechain
1	AA	866	C	Sidechain
1	AA	867	G	Sidechain
1	AA	870	U	Sidechain
1	AA	871	U	Sidechain
1	AA	880	C	Sidechain
1	AA	886	G	Sidechain
1	AA	891	U	Sidechain
1	AA	902	G	Sidechain
1	AA	908	A	Sidechain
1	AA	909	A	Sidechain
1	AA	914	A	Sidechain
1	AA	917	G	Sidechain
1	AA	921	U	Sidechain
1	AA	931	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	940	C	Sidechain
1	AA	955	U	Sidechain
1	AA	96	U	Sidechain
1	AA	961	U	Sidechain
1	AA	971	G	Sidechain
1	AA	978	A	Sidechain
1	AA	980	C	Sidechain
9	AI	114	TYR	Sidechain
11	AK	25	TYR	Sidechain
17	AQ	95	TYR	Sidechain
21	AU	18	TYR	Sidechain
22	AV	30	G	Sidechain
22	AV	36	U	Sidechain
22	AV	38	A	Sidechain
22	AV	58	A	Sidechain
22	AV	76	A	Sidechain
24	AY	186	TYR	Sidechain
24	AY	189	GLU	Mainchain
24	AY	360	TYR	Sidechain
24	AY	444	LEU	Mainchain
24	AY	504	ILE	Mainchain
30	B5	51	TYR	Sidechain
35	BA	1130	U	Sidechain
35	BA	1140	C	Sidechain
35	BA	1187	G	Sidechain
35	BA	1199	U	Sidechain
35	BA	1211	U	Sidechain
35	BA	1215	G	Sidechain
35	BA	1238	G	Sidechain
35	BA	1277	G	Sidechain
35	BA	1285	G	Sidechain
35	BA	1297	C	Sidechain
35	BA	1326	U	Sidechain
35	BA	1336	A	Sidechain
35	BA	1340	U	Sidechain
35	BA	1415	U	Sidechain
35	BA	1425	G	Sidechain
35	BA	1453	U	Sidechain
35	BA	147	U	Sidechain
35	BA	1498	C	Sidechain
35	BA	1514	U	Sidechain
35	BA	1523	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
35	BA	1528	A	Sidechain
35	BA	1567	A	Sidechain
35	BA	1623	G	Sidechain
35	BA	1660	C	Sidechain
35	BA	1669	A	Sidechain
35	BA	1697	G	Sidechain
35	BA	1768	U	Sidechain
35	BA	1777	U	Sidechain
35	BA	1779	U	Sidechain
35	BA	1781	C	Sidechain
35	BA	1783	A	Sidechain
35	BA	1802	A	Sidechain
35	BA	1807	G	Sidechain
35	BA	1820	U	Sidechain
35	BA	1833	U	Sidechain
35	BA	1834	U	Sidechain
35	BA	1842	G	Sidechain
35	BA	1845	G	Sidechain
35	BA	1854	A	Sidechain
35	BA	187	G	Sidechain
35	BA	1896	G	Sidechain
35	BA	1908	C	Sidechain
35	BA	1919	A	Sidechain
35	BA	1929	G	Sidechain
35	BA	1930	G	Sidechain
35	BA	1931	U	Sidechain
35	BA	1935	G	Sidechain
35	BA	1947	C	Sidechain
35	BA	1954	G	Sidechain
35	BA	1959	G	Sidechain
35	BA	197	A	Sidechain
35	BA	1971	A	Sidechain
35	BA	1981	A	Sidechain
35	BA	1984	G	Sidechain
35	BA	1993	U	Sidechain
35	BA	1997	G	Sidechain
35	BA	1998	G	Sidechain
35	BA	2011	U	Sidechain
35	BA	2015	A	Sidechain
35	BA	2034	U	Sidechain
35	BA	2040	C	Sidechain
35	BA	206	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
35	BA	2064	C	Sidechain
35	BA	2074	U	Sidechain
35	BA	2102	U	Sidechain
35	BA	2128	C	Sidechain
35	BA	215	G	Sidechain
35	BA	2156	G	Sidechain
35	BA	2172	U	Sidechain
35	BA	2189	U	Sidechain
35	BA	2237	G	Sidechain
35	BA	229	A	Sidechain
35	BA	2314	C	Sidechain
35	BA	2317	C	Sidechain
35	BA	2331	G	Sidechain
35	BA	2334	G	Sidechain
35	BA	2337	G	Sidechain
35	BA	2344	U	Sidechain
35	BA	2357	U	Sidechain
35	BA	2358	G	Sidechain
35	BA	2372	G	Sidechain
35	BA	2381	C	Sidechain
35	BA	2389	G	Sidechain
35	BA	2405	G	Sidechain
35	BA	2412	A	Sidechain
35	BA	2419	U	Sidechain
35	BA	2429	G	Sidechain
35	BA	2432	A	Sidechain
35	BA	2446	G	Sidechain
35	BA	2449	U	Sidechain
35	BA	2469	A	Sidechain
35	BA	2471	C	Sidechain
35	BA	2481	G	Sidechain
35	BA	249	C	Sidechain
35	BA	2490	G	Sidechain
35	BA	2492	U	Sidechain
35	BA	2494	G	Sidechain
35	BA	2496	C	Sidechain
35	BA	2504	U	Sidechain
35	BA	2505	G	Sidechain
35	BA	255	A	Sidechain
35	BA	2552	U	Sidechain
35	BA	2557	G	Sidechain
35	BA	2562	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
35	BA	2567	G	Sidechain
35	BA	257	A	Sidechain
35	BA	2576	G	Sidechain
35	BA	2579	C	Sidechain
35	BA	2582	G	Sidechain
35	BA	2599	G	Sidechain
35	BA	2607	G	Sidechain
35	BA	2614	A	Sidechain
35	BA	263	C	Sidechain
35	BA	2689	U	Sidechain
35	BA	2706	G	Sidechain
35	BA	2708	G	Sidechain
35	BA	271(Q)	G	Sidechain
35	BA	271(Y)	U	Sidechain
35	BA	272(B)	G	Sidechain
35	BA	2822	G	Sidechain
35	BA	2836	U	Sidechain
35	BA	2861	G	Sidechain
35	BA	33	U	Sidechain
35	BA	35	G	Sidechain
35	BA	384	U	Sidechain
35	BA	396	G	Sidechain
35	BA	463	G	Sidechain
35	BA	467	G	Sidechain
35	BA	491	G	Sidechain
35	BA	530	G	Sidechain
35	BA	567	A	Sidechain
35	BA	604	G	Sidechain
35	BA	609	A	Sidechain
35	BA	700	G	Sidechain
35	BA	710	G	Sidechain
35	BA	762	U	Sidechain
35	BA	767	U	Sidechain
35	BA	793	A	Sidechain
35	BA	811	U	Sidechain
35	BA	828	U	Sidechain
35	BA	833	U	Sidechain
35	BA	838	C	Sidechain
35	BA	851	U	Sidechain
35	BA	864	G	Sidechain
35	BA	869	G	Sidechain
35	BA	898	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
35	BA	905	U	Sidechain
35	BA	908	C	Sidechain
35	BA	918	A	Sidechain
35	BA	925	C	Sidechain
35	BA	926	A	Sidechain
35	BA	930	U	Sidechain
35	BA	946	G	Sidechain
35	BA	965	C	Sidechain
35	BA	968	G	Sidechain
35	BA	975(A)	G	Sidechain
35	BA	977	G	Sidechain
35	BA	989	G	Sidechain
35	BA	990	A	Sidechain
35	BA	999	U	Sidechain
36	BB	16	G	Sidechain
36	BB	35	U	Sidechain
36	BB	5	C	Sidechain
36	BB	64	C	Sidechain
36	BB	67	G	Sidechain
36	BB	69	G	Sidechain
36	BB	73	A	Sidechain
36	BB	77	U	Sidechain
36	BB	78	A	Sidechain
36	BB	79	C	Sidechain
36	BB	82	G	Sidechain
36	BB	90	A	Sidechain
42	BH	83	TYR	Sidechain
45	BN	4	TYR	Sidechain
48	BQ	9	TYR	Sidechain
53	BV	81	TYR	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	32329	0	16318	2585	0
2	AB	1901	0	1951	544	1
3	AC	1613	0	1677	321	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	AD	1703	0	1767	353	0
5	AE	1147	0	1207	235	0
6	AF	843	0	857	147	0
7	AG	1257	0	1296	193	0
8	AH	1116	0	1177	210	0
9	AI	1011	0	1043	211	0
10	AJ	795	0	840	200	0
11	AK	885	0	904	165	0
12	AL	971	0	1057	224	0
13	AM	988	0	1059	204	0
14	AN	492	0	533	153	0
15	AO	734	0	771	244	0
16	AP	701	0	720	135	0
17	AQ	824	0	891	157	0
18	AR	574	0	644	136	0
19	AS	630	0	652	215	0
20	AT	763	0	861	157	0
21	AU	209	0	221	50	0
22	AV	1640	0	837	196	0
23	AX	192	0	99	22	0
24	AY	3934	0	3922	1280	0
25	B0	662	0	688	141	0
26	B1	732	0	808	135	0
27	B2	598	0	653	130	0
28	B3	468	0	523	111	0
29	B4	341	0	339	94	0
30	B5	459	0	480	136	0
31	B6	433	0	461	112	0
32	B7	419	0	467	116	0
33	B8	508	0	576	158	0
34	B9	307	0	338	71	0
35	BA	62477	0	31497	5289	0
36	BB	2551	0	1295	230	0
37	BC	1742	0	1794	387	1
38	BD	2145	0	2234	794	0
39	BE	1564	0	1629	467	0
40	BF	1624	0	1677	432	0
41	BG	1474	0	1535	351	0
42	BH	1189	0	1247	290	0
43	BJ	654	0	157	36	0
44	BK	701	0	168	41	0
45	BN	1105	0	1180	285	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	BO	933	0	996	190	0
47	BP	1114	0	1187	370	0
48	BQ	1122	0	1179	308	0
49	BR	960	0	1021	245	0
50	BS	771	0	832	214	0
51	BT	1142	0	1202	336	0
52	BU	958	0	1015	323	0
53	BV	779	0	852	217	0
54	BW	896	0	953	175	0
55	BX	726	0	778	118	0
56	BY	776	0	870	200	0
57	BZ	1403	0	1432	385	0
58	AY	32	0	14	11	0
All	All	151017	0	103381	19390	1

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 77.

All (19390) 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)
24:AY:111:MET:CE	24:AY:139:THR:HG23	1.18	1.62
24:AY:331:LEU:CD2	24:AY:379:PHE:HD2	1.19	1.51
24:AY:331:LEU:HD22	24:AY:379:PHE:CD2	1.46	1.47
37:BC:127:MET:SD	37:BC:127:MET:CG	2.03	1.45
24:AY:135:THR:CG2	24:AY:136:PRO:HD2	1.44	1.45
24:AY:184:HIS:ND1	24:AY:191:TYR:HE1	1.18	1.38
24:AY:296:PHE:CG	24:AY:331:LEU:HD11	1.57	1.38
24:AY:184:HIS:ND1	24:AY:191:TYR:CE1	1.91	1.37
24:AY:109:CYS:HB2	24:AY:137:ILE:CG2	1.56	1.34
24:AY:473:TRP:CH2	24:AY:500:ASN:HB2	1.62	1.33
24:AY:193:TYR:CB	24:AY:263:PHE:HD1	1.42	1.32
24:AY:181:GLY:HA2	24:AY:263:PHE:CE1	1.65	1.30
24:AY:331:LEU:CD2	24:AY:379:PHE:CD2	2.10	1.27
24:AY:111:MET:HE1	24:AY:139:THR:CG2	1.62	1.26
1:AA:951:G:H2'	1:AA:952:U:C6	1.70	1.24
24:AY:111:MET:CE	24:AY:139:THR:CG2	2.12	1.24
24:AY:183:TYR:HE2	24:AY:189:GLU:N	1.34	1.24
35:BA:782:A:C2	38:BD:226:MET:HG2	1.73	1.24
35:BA:1922:G:O2'	35:BA:1923:U:H5'	1.33	1.24
35:BA:1947:C:C2'	35:BA:1948:G:H5''	1.68	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:60:ARG:HD2	38:BD:86:PRO:CB	1.69	1.23
24:AY:134:ASP:OD1	24:AY:249:GLY:HA3	1.37	1.22
42:BH:33:LEU:HD12	42:BH:75:ALA:O	1.38	1.21
24:AY:109:CYS:CB	24:AY:137:ILE:HG23	1.71	1.21
24:AY:138:LEU:HD23	24:AY:253:PRO:HG3	1.21	1.20
38:BD:85:ASP:OD1	38:BD:88:ARG:HD2	1.39	1.20
24:AY:331:LEU:HB3	24:AY:379:PHE:CE2	1.77	1.19
24:AY:369:ASN:HD22	24:AY:373:ILE:HG12	1.04	1.19
35:BA:2744:G:N2	42:BH:143:GLN:HE22	1.39	1.19
1:AA:673:G:H2'	1:AA:674:G:C8	1.77	1.18
35:BA:2134:A:H61	35:BA:2157:G:H1'	1.08	1.18
24:AY:255:PHE:CZ	24:AY:275:TRP:CZ3	2.32	1.18
53:BV:16:PRO:O	53:BV:96:ILE:HG12	1.43	1.18
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.06	1.17
23:AX:14:A:H3'	23:AX:15:A:H5''	1.19	1.17
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	1.44	1.17
24:AY:170:THR:HG22	24:AY:184:HIS:HA	1.22	1.17
35:BA:2472:G:H5'	35:BA:2473:U:H5''	1.26	1.16
24:AY:184:HIS:CE1	24:AY:191:TYR:CE1	2.34	1.16
35:BA:2014:A:H2'	35:BA:2015:A:N7	1.58	1.16
38:BD:13:ARG:HG3	38:BD:16:MET:SD	1.84	1.16
38:BD:92:ILE:HG22	38:BD:106:ILE:HA	1.28	1.16
2:AB:220:ASP:HA	2:AB:223:ILE:HD12	1.26	1.16
24:AY:74:VAL:CG2	24:AY:87:LEU:HD23	1.73	1.16
47:BP:47:ASP:HB3	47:BP:48:PRO:HA	1.25	1.16
57:BZ:152:ALA:HB1	57:BZ:167:PRO:HB2	1.25	1.16
31:B6:52:VAL:HG22	31:B6:53:LYS:H	1.09	1.15
35:BA:1911:U:H2'	35:BA:1918:A:N1	1.58	1.15
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.26	1.15
11:AK:126:ARG:HH11	11:AK:126:ARG:HB3	1.11	1.15
15:AO:54:ARG:HG3	15:AO:58:MET:CE	1.75	1.15
35:BA:1925:C:C2'	35:BA:1926:U:H5''	1.76	1.15
42:BH:106:THR:HG21	42:BH:112:PRO:CA	1.76	1.15
24:AY:101:ARG:HD2	24:AY:390:ILE:HG12	1.23	1.15
35:BA:1947:C:H2'	35:BA:1948:G:C5'	1.76	1.15
24:AY:263:PHE:HD2	24:AY:263:PHE:C	1.54	1.14
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	1.28	1.14
35:BA:914:C:H2'	35:BA:915:C:H5'	1.26	1.14
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.17	1.13
51:BT:20:PRO:HD2	51:BT:85:LYS:HB2	1.29	1.13
22:AV:61:C:H3'	22:AV:62:C:H5''	1.15	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:189:GLU:O	24:AY:189:GLU:HG3	1.45	1.13
38:BD:176:ARG:HH11	38:BD:176:ARG:HG2	0.98	1.13
24:AY:164:ILE:CD1	24:AY:252:THR:HG23	1.79	1.13
48:BQ:134:ARG:NH1	57:BZ:122:ARG:HH21	1.43	1.13
21:AU:10:ARG:HA	21:AU:13:ILE:HD12	1.30	1.13
24:AY:11:ALA:HA	24:AY:278:ALA:HB1	1.22	1.13
24:AY:473:TRP:CZ3	24:AY:500:ASN:HB3	1.83	1.13
35:BA:2605:U:H2'	35:BA:2606:C:C6	1.83	1.13
45:BN:34:LEU:HD21	45:BN:120:LEU:HD23	1.29	1.13
10:AJ:50:ILE:HA	10:AJ:60:ARG:HG2	1.31	1.12
12:AL:36:VAL:HG11	24:AY:406:PRO:HB3	1.25	1.13
24:AY:421:GLU:O	24:AY:422:GLU:HG3	1.49	1.13
54:BW:14:PRO:HG2	54:BW:78:GLU:HG3	1.27	1.13
52:BU:101:ARG:O	52:BU:103:PRO:HD3	1.46	1.12
24:AY:181:GLY:CA	24:AY:263:PHE:HE1	1.63	1.12
24:AY:307:MET:O	24:AY:307:MET:SD	2.07	1.12
24:AY:473:TRP:HZ3	24:AY:500:ASN:HB3	1.14	1.12
25:B0:43:THR:H	35:BA:2331:G:H4'	1.04	1.12
46:BO:61:VAL:HG12	46:BO:87:ILE:HD11	1.31	1.12
56:BY:7:VAL:HB	56:BY:8:LYS:HD2	1.31	1.12
1:AA:1386:G:H2'	1:AA:1387:G:H5''	1.32	1.12
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.30	1.12
24:AY:193:TYR:CB	24:AY:263:PHE:CD1	2.31	1.12
38:BD:26:LYS:NZ	38:BD:113:VAL:HG21	1.65	1.12
55:BX:12:VAL:HB	55:BX:17:ALA:HB1	1.21	1.12
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.27	1.11
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.20	1.11
24:AY:222:ASP:O	24:AY:226:GLN:HB2	1.47	1.11
38:BD:147:LEU:H	38:BD:154:LYS:HD2	1.02	1.11
53:BV:96:ILE:HD13	53:BV:96:ILE:H	1.14	1.11
2:AB:75:LYS:O	2:AB:78:GLN:HG3	1.48	1.11
24:AY:135:THR:HG23	24:AY:136:PRO:CD	1.79	1.11
24:AY:138:LEU:CD2	24:AY:253:PRO:HG3	1.78	1.11
38:BD:13:ARG:HA	38:BD:16:MET:HG2	1.17	1.11
40:BF:126:VAL:HG11	40:BF:142:TRP:HH2	1.11	1.11
6:AF:25:ILE:HA	6:AF:28:ARG:HH11	1.08	1.11
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.29	1.11
40:BF:6:VAL:HG12	40:BF:7:TYR:H	1.07	1.11
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.29	1.11
24:AY:134:ASP:OD1	24:AY:249:GLY:CA	1.99	1.11
38:BD:24:ILE:HD11	38:BD:91:ARG:HB3	1.23	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:44:ALA:HA	48:BQ:47:ILE:HD12	1.11	1.11
12:AL:126:LYS:HB3	24:AY:487:ARG:HH21	0.96	1.10
27:B2:25:VAL:HG22	27:B2:60:LEU:HD13	1.32	1.10
35:BA:1061:U:H4'	35:BA:1070:A:C1'	1.81	1.10
35:BA:1919:A:H2'	35:BA:1920:C:H5''	1.30	1.10
1:AA:975:A:H4'	1:AA:976:G:H5''	1.30	1.10
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.30	1.10
4:AD:99:SER:HB3	4:AD:139:ARG:HG3	1.16	1.10
24:AY:136:PRO:C	24:AY:137:ILE:HG13	1.76	1.10
24:AY:181:GLY:CA	24:AY:263:PHE:CE1	2.33	1.10
24:AY:307:MET:HG2	24:AY:312:ARG:HA	1.25	1.10
35:BA:330:A:H2	35:BA:1210:A:H2'	1.16	1.10
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	1.26	1.10
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.30	1.10
35:BA:1270:C:H5''	35:BA:1271:G:H5'	1.21	1.10
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.28	1.10
51:BT:90:GLN:HG2	51:BT:120:ARG:HH22	1.13	1.10
26:B1:11:ARG:HB3	26:B1:12:PRO:HD2	1.27	1.10
38:BD:201:HIS:ND1	38:BD:204:ILE:HG21	1.67	1.10
24:AY:308:ASP:N	24:AY:309:PRO:HD2	1.65	1.09
24:AY:473:TRP:CH2	24:AY:500:ASN:CB	2.34	1.09
35:BA:2159:G:H2'	35:BA:2160:G:H5''	1.30	1.09
49:BR:48:VAL:HA	49:BR:51:LEU:HD22	1.34	1.09
24:AY:193:TYR:HB3	24:AY:263:PHE:HD1	1.17	1.09
25:B0:27:GLU:HB3	25:B0:68:GLU:HA	1.29	1.09
35:BA:797:C:H2'	35:BA:798:G:H8	1.08	1.09
50:BS:13:ARG:HG3	50:BS:14:VAL:H	1.04	1.09
55:BX:8:ILE:HA	55:BX:30:VAL:HG12	1.31	1.09
12:AL:36:VAL:HG21	24:AY:406:PRO:HG2	1.17	1.09
12:AL:126:LYS:HB3	24:AY:487:ARG:NH2	1.66	1.09
24:AY:105:ALA:HB1	24:AY:319:ARG:HD3	1.30	1.09
24:AY:255:PHE:CZ	24:AY:275:TRP:CH2	2.39	1.09
35:BA:143:G:H1'	55:BX:37:THR:HG21	1.32	1.09
56:BY:12:THR:HB	56:BY:75:ILE:HG21	1.34	1.09
4:AD:59:ARG:CZ	4:AD:59:ARG:HA	1.82	1.09
24:AY:113:ILE:HG22	24:AY:114:ASP:H	1.04	1.09
24:AY:443:VAL:HG23	24:AY:444:LEU:H	1.06	1.09
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.29	1.09
46:BO:2:ILE:HB	46:BO:33:ALA:HB3	1.31	1.09
51:BT:51:ARG:HG2	51:BT:62:THR:OG1	1.53	1.09
11:AK:30:VAL:HG21	11:AK:68:ALA:HB2	1.35	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1844:C:H2'	35:BA:1845:G:H5'	1.31	1.09
27:B2:50:ILE:HG21	35:BA:61:G:H5'	1.27	1.08
35:BA:2593:U:H2'	35:BA:2594:C:C6	1.87	1.08
46:BO:86:ILE:HG22	46:BO:94:ARG:HG3	1.11	1.08
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.17	1.08
24:AY:168:PRO:CB	24:AY:171:TRP:CZ2	2.36	1.08
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.31	1.08
37:BC:175:VAL:HG21	37:BC:189:ILE:HG12	1.23	1.08
24:AY:109:CYS:O	24:AY:137:ILE:HA	1.52	1.08
51:BT:124:ASP:HB3	51:BT:125:ARG:NH1	1.67	1.08
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.35	1.08
15:AO:4:THR:HB	15:AO:7:GLU:CB	1.84	1.08
35:BA:833:U:H5''	47:BP:48:PRO:HG3	1.31	1.08
35:BA:2628:C:H1'	35:BA:2781:A:H2'	1.31	1.08
35:BA:2820:A:N6	39:BE:192:ASN:HB3	1.68	1.08
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.11	1.08
57:BZ:150:LEU:HG	57:BZ:171:ILE:HD11	1.10	1.08
7:AG:29:LYS:HE2	7:AG:102:ARG:HA	1.33	1.07
34:B9:7:VAL:HG13	34:B9:34:GLN:HG2	1.36	1.07
35:BA:2596:U:H1'	38:BD:244:ARG:HH21	1.11	1.07
45:BN:133:GLN:HG2	45:BN:135:PRO:HD3	1.34	1.07
57:BZ:56:VAL:HG22	57:BZ:70:LEU:HD13	1.36	1.07
24:AY:181:GLY:HA2	24:AY:263:PHE:CZ	1.89	1.07
24:AY:193:TYR:HB3	24:AY:263:PHE:CD1	1.89	1.07
42:BH:132:ARG:HG2	42:BH:133:VAL:N	1.63	1.07
1:AA:1442(A):G:H22	51:BT:121:ILE:HG12	1.15	1.07
24:AY:32:LYS:HA	24:AY:35:LEU:HG	1.15	1.07
35:BA:1061:U:H4'	35:BA:1070:A:H1'	1.34	1.07
35:BA:1543:C:H3'	35:BA:1544:A:H5''	1.29	1.07
35:BA:1720:U:H2'	35:BA:1721:G:H5''	1.32	1.07
45:BN:91:LEU:HA	45:BN:95:PRO:HB3	1.30	1.07
54:BW:8:ARG:HA	54:BW:102:HIS:CB	1.84	1.07
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.10	1.07
15:AO:39:LEU:CB	15:AO:56:LEU:HD21	1.83	1.07
24:AY:138:LEU:HD23	24:AY:253:PRO:CG	1.85	1.07
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.34	1.07
35:BA:2594:C:H2'	35:BA:2595:G:H8	1.12	1.07
37:BC:86:ALA:HB3	37:BC:94:VAL:HG11	1.30	1.07
47:BP:38:GLN:HG3	47:BP:39:LYS:H	1.19	1.07
52:BU:31:SER:HB3	52:BU:34:LYS:HB2	1.12	1.07
55:BX:57:LEU:HD21	55:BX:78:LYS:HE2	1.14	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:692:U:H2'	1:AA:694:A:OP2	1.52	1.07
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.13	1.07
39:BE:199:ARG:HB2	39:BE:199:ARG:NH1	1.70	1.07
47:BP:113:LYS:HB2	47:BP:129:ALA:HB3	1.37	1.07
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.37	1.06
12:AL:34:ARG:HD3	12:AL:105:TYR:OH	1.55	1.06
24:AY:105:ALA:HA	24:AY:319:ARG:HH11	0.97	1.06
35:BA:547:A:H2'	35:BA:548:A:H8	1.14	1.06
35:BA:1911:U:H2'	35:BA:1918:A:C2	1.90	1.06
35:BA:2305:A:H5''	41:BG:134:GLY:HA3	1.09	1.06
24:AY:373:ILE:HG22	24:AY:374:GLN:H	1.19	1.06
35:BA:2833:G:H3'	35:BA:2834:G:C5'	1.85	1.06
38:BD:183:ARG:HD2	38:BD:270:ILE:HG23	1.34	1.06
39:BE:34:VAL:HG11	39:BE:78:LEU:CD2	1.86	1.06
15:AO:4:THR:CB	15:AO:7:GLU:HB3	1.84	1.06
24:AY:111:MET:HE3	24:AY:139:THR:HG23	1.31	1.06
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.33	1.06
37:BC:100:ILE:HG12	37:BC:127:MET:HE2	1.37	1.06
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.17	1.06
1:AA:405:U:H3'	1:AA:406:G:H5'	1.35	1.06
35:BA:655:A:H4'	35:BA:656:G:H5'	1.31	1.06
35:BA:2839:G:H5''	49:BR:46:GLY:HA2	1.32	1.06
41:BG:101:ILE:HG22	41:BG:105:LYS:NZ	1.69	1.06
50:BS:29:PHE:HE1	50:BS:31:SER:HB2	1.17	1.06
24:AY:193:TYR:HB2	24:AY:263:PHE:HD1	1.12	1.05
24:AY:291:ALA:HA	24:AY:361:PRO:CG	1.85	1.05
24:AY:453:LEU:HB3	24:AY:459:VAL:HG23	1.35	1.05
56:BY:14:LEU:HB3	56:BY:73:ARG:HB2	1.31	1.05
1:AA:110:C:H2'	1:AA:111:G:H8	1.12	1.05
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.38	1.05
24:AY:193:TYR:HB2	24:AY:263:PHE:CD1	1.92	1.05
37:BC:42:GLU:HB3	37:BC:215:THR:HG23	1.35	1.05
24:AY:183:TYR:CE2	24:AY:189:GLU:N	2.23	1.05
27:B2:35:LEU:HD11	27:B2:50:ILE:HG13	1.38	1.05
38:BD:35:LYS:H	38:BD:36:PRO:HD2	1.22	1.05
45:BN:55:VAL:HG22	45:BN:125:GLY:HA3	1.38	1.05
52:BU:28:ARG:HH11	52:BU:38:THR:HG23	1.18	1.05
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.37	1.05
22:AV:51:C:H2'	22:AV:52:G:C8	1.92	1.05
24:AY:74:VAL:HG23	24:AY:87:LEU:HD23	1.08	1.05
54:BW:25:ARG:HA	54:BW:71:VAL:HG11	1.38	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1488:G:H2'	1:AA:1489:G:C8	1.92	1.05
24:AY:110:LEU:HD13	24:AY:268:MET:CE	1.87	1.05
24:AY:342:ILE:HD11	24:AY:345:ALA:HB2	1.39	1.05
33:B8:27:THR:HG22	47:BP:62:LEU:HD22	1.10	1.05
19:AS:9:VAL:HG12	19:AS:11:VAL:HG12	1.34	1.04
24:AY:155:LEU:HD23	24:AY:166:CYS:HB3	1.34	1.04
24:AY:473:TRP:CZ3	24:AY:500:ASN:CB	2.40	1.04
35:BA:140:G:H1'	35:BA:141:A:H2	1.17	1.04
35:BA:249:C:H2'	35:BA:2395:C:OP1	1.56	1.04
42:BH:125:VAL:HA	42:BH:131:VAL:HG12	1.34	1.04
3:AC:19:GLU:HG2	3:AC:54:ARG:HE	1.16	1.04
6:AF:72:VAL:HG13	6:AF:73:ASN:H	1.18	1.04
12:AL:27:LEU:HD22	12:AL:28:LYS:H	1.12	1.04
35:BA:2689:U:H5''	35:BA:2690:C:H5'	1.38	1.04
37:BC:10:LEU:HB3	37:BC:220:PRO:CG	1.86	1.04
48:BQ:29:PHE:HE2	48:BQ:67:ARG:NH2	1.54	1.04
35:BA:1007:C:H5''	45:BN:35:ARG:NH1	1.72	1.04
35:BA:2134:A:N6	35:BA:2157:G:H1'	1.70	1.04
37:BC:41:VAL:HG23	37:BC:176:GLY:O	1.55	1.04
17:AQ:3:LYS:O	17:AQ:60:ILE:HG13	1.57	1.04
39:BE:13:ARG:HB3	39:BE:22:PRO:HA	1.39	1.04
46:BO:21:CYS:HA	46:BO:41:ALA:HB2	1.40	1.04
52:BU:92:ARG:HD3	52:BU:94:ASN:HB3	1.37	1.04
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.18	1.04
31:B6:33:LYS:HE2	31:B6:33:LYS:HA	1.36	1.04
35:BA:547:A:H2'	35:BA:548:A:C8	1.93	1.04
38:BD:60:ARG:HD2	38:BD:86:PRO:HB3	1.37	1.04
39:BE:171:GLU:HB2	39:BE:185:LYS:HG2	1.40	1.04
1:AA:977:A:O2'	1:AA:978:A:H5''	1.57	1.03
3:AC:54:ARG:O	3:AC:55:VAL:HG23	1.57	1.03
17:AQ:75:ARG:NH1	17:AQ:77:VAL:HG22	1.72	1.03
42:BH:43:VAL:HG11	42:BH:52:VAL:HG23	1.36	1.03
35:BA:2287:A:N6	35:BA:2344:U:H3	1.54	1.03
38:BD:17:THR:HG22	38:BD:18:VAL:H	0.87	1.03
46:BO:60:ALA:HA	46:BO:87:ILE:HG12	1.36	1.03
1:AA:979:C:H3'	1:AA:980:C:H5''	1.03	1.03
24:AY:182:VAL:HG12	24:AY:183:TYR:H	1.24	1.03
38:BD:60:ARG:HD2	38:BD:86:PRO:HB2	1.34	1.03
38:BD:131:LEU:HB2	38:BD:136:ILE:HG13	1.40	1.03
39:BE:117:MET:HA	39:BE:122:PHE:H	1.22	1.03
41:BG:109:VAL:HG11	41:BG:142:PRO:HD3	1.40	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.16	1.03
6:AF:98:LEU:H	6:AF:98:LEU:HD12	1.17	1.03
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.38	1.03
24:AY:512:ARG:O	24:AY:516:GLU:HG2	1.55	1.03
35:BA:271(L):U:H5''	35:BA:271(M):G:H5'	1.40	1.03
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.07	1.03
38:BD:13:ARG:HA	38:BD:16:MET:CG	1.87	1.03
38:BD:60:ARG:NH2	38:BD:87:ASN:HA	1.74	1.03
48:BQ:78:PRO:HD2	48:BQ:81:VAL:HG11	1.41	1.03
1:AA:1060:C:H5''	10:AJ:51:ARG:HD3	1.40	1.03
1:AA:1266:G:N2	1:AA:1268:A:H5''	1.72	1.03
23:AX:14:A:C3'	23:AX:15:A:H5''	1.89	1.03
24:AY:255:PHE:HZ	24:AY:275:TRP:CZ3	1.72	1.03
30:B5:24:ALA:O	54:BW:19:LEU:HD11	1.59	1.03
35:BA:2262:U:H4'	35:BA:2328:A:H2	1.22	1.03
37:BC:103:ILE:HD12	37:BC:127:MET:HE1	1.38	1.03
42:BH:88:LEU:HD21	42:BH:130:ARG:HG2	1.39	1.03
24:AY:109:CYS:HB2	24:AY:137:ILE:HG23	1.03	1.02
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.34	1.02
35:BA:272(H):C:H2'	35:BA:272(I):U:H5''	1.41	1.02
35:BA:631:A:H5''	47:BP:65:ARG:NH1	1.74	1.02
35:BA:1912:A:C5'	35:BA:1918:A:H61	1.72	1.02
35:BA:2086:U:H2'	35:BA:2087:G:C8	1.94	1.02
35:BA:2833:G:H3'	35:BA:2834:G:H5''	1.06	1.02
57:BZ:33:LEU:HD12	57:BZ:34:ASN:H	0.89	1.02
36:BB:102:A:H3'	36:BB:103:G:C8	1.95	1.02
37:BC:100:ILE:HG21	37:BC:126:LYS:HB3	1.39	1.02
24:AY:72:THR:HG22	24:AY:90:PRO:HD3	1.42	1.02
24:AY:146:ARG:HG3	24:AY:146:ARG:HH11	1.23	1.02
30:B5:25:LEU:HD13	54:BW:23:LEU:HD22	1.34	1.02
35:BA:1434:A:H2'	35:BA:1435:G:C8	1.94	1.02
38:BD:17:THR:HG22	38:BD:18:VAL:N	1.70	1.02
24:AY:360:TYR:HB3	24:AY:361:PRO:HD2	1.39	1.02
24:AY:368:HIS:O	24:AY:373:ILE:HD11	1.58	1.02
35:BA:910:A:H62	48:BQ:12:GLN:HA	1.23	1.02
37:BC:10:LEU:CB	37:BC:220:PRO:HG3	1.89	1.02
24:AY:215:LEU:O	24:AY:219:VAL:HG22	1.60	1.02
28:B3:47:VAL:HA	28:B3:50:VAL:HG22	1.41	1.02
37:BC:180:PHE:HB3	37:BC:184:LYS:HB3	1.42	1.02
38:BD:177:LEU:HG	38:BD:181:GLU:O	1.60	1.02
51:BT:33:LYS:HG3	51:BT:43:GLN:HB2	1.40	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:70:PRO:HG3	5:AE:142:LEU:HB3	1.39	1.01
5:AE:80:ILE:HA	8:AH:104:ARG:NH2	1.75	1.01
15:AO:39:LEU:HB3	15:AO:56:LEU:HD21	1.38	1.01
37:BC:100:ILE:HG23	37:BC:127:MET:HG3	1.37	1.01
39:BE:77:ILE:HG22	39:BE:78:LEU:H	1.23	1.01
40:BF:179:GLU:HG3	40:BF:201:VAL:HG21	1.40	1.01
50:BS:28:VAL:HG12	50:BS:29:PHE:H	1.26	1.01
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.75	1.01
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.40	1.01
19:AS:46:GLY:H	19:AS:62:ILE:HG23	1.21	1.01
24:AY:21:HIS:ND1	24:AY:22:PRO:HD2	1.74	1.01
24:AY:21:HIS:CD2	24:AY:122:ARG:H	1.78	1.01
24:AY:105:ALA:HA	24:AY:319:ARG:NH1	1.75	1.01
24:AY:223:LEU:HG	42:BH:97:ARG:HH12	1.23	1.01
31:B6:14:THR:HG22	31:B6:50:ARG:HB2	1.42	1.01
35:BA:662:G:OP1	47:BP:18:ARG:HD2	1.61	1.01
35:BA:1539:G:C2	35:BA:1540:U:H1'	1.95	1.01
35:BA:1892:C:H2'	35:BA:1893:C:H5'	1.42	1.01
35:BA:2820:A:H62	39:BE:192:ASN:HB3	1.23	1.01
42:BH:122:THR:HG22	42:BH:123:PHE:H	1.20	1.01
57:BZ:33:LEU:HD12	57:BZ:34:ASN:N	1.75	1.01
15:AO:54:ARG:HG3	15:AO:58:MET:HE2	1.42	1.01
35:BA:705:A:C2	35:BA:727:A:H1'	1.96	1.01
35:BA:1899:G:H21	35:BA:1902:C:H41	1.07	1.01
36:BB:105:A:H2'	36:BB:106:G:O4'	1.61	1.01
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.60	1.01
47:BP:7:ARG:HA	47:BP:7:ARG:HH11	1.23	1.01
49:BR:14:SER:HA	49:BR:17:ARG:NH2	1.74	1.01
1:AA:108:G:H5'	1:AA:109:A:H5''	1.38	1.01
6:AF:87:ARG:HH11	6:AF:87:ARG:HG2	1.20	1.01
16:AP:73:LEU:HD23	16:AP:76:GLN:HE22	1.25	1.01
35:BA:613:G:H8	35:BA:613:G:H5'	1.25	1.01
38:BD:124:PRO:O	38:BD:129:ASN:ND2	1.94	1.01
40:BF:188:ARG:HA	47:BP:7:ARG:HD2	1.43	1.01
48:BQ:44:ALA:CA	48:BQ:47:ILE:HD12	1.90	1.01
50:BS:97:ARG:NH2	50:BS:98:VAL:HA	1.75	1.01
54:BW:14:PRO:HG3	54:BW:101:SER:HB3	1.41	1.01
24:AY:263:PHE:C	24:AY:263:PHE:CD2	2.30	1.01
40:BF:179:GLU:HB3	40:BF:205:ARG:HH22	1.23	1.01
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.59	1.00
35:BA:1447:G:H5'	35:BA:1545:A:H4'	1.40	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:19:ILE:HG22	46:BO:43:VAL:HA	1.38	1.00
1:AA:401:C:H2'	1:AA:402:G:H8	1.24	1.00
1:AA:711:G:H2'	1:AA:712:A:H8	1.22	1.00
5:AE:11:ILE:HD12	5:AE:31:LEU:HD13	1.42	1.00
5:AE:12:LEU:HD22	5:AE:13:ILE:N	1.76	1.00
35:BA:1922:G:C2'	35:BA:1923:U:H5'	1.90	1.00
51:BT:90:GLN:HG2	51:BT:120:ARG:NH2	1.76	1.00
52:BU:15:LYS:HA	52:BU:18:LEU:HD23	1.43	1.00
1:AA:713:G:H2'	1:AA:714:G:C8	1.97	1.00
34:B9:36:GLN:NE2	35:BA:1031:G:H21	1.57	1.00
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.60	1.00
37:BC:10:LEU:HD12	37:BC:32:LEU:HA	1.44	1.00
38:BD:17:THR:CG2	38:BD:18:VAL:H	1.74	1.00
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	1.96	1.00
39:BE:3:GLY:HA3	39:BE:81:ILE:HD12	1.43	1.00
39:BE:47:VAL:HG23	39:BE:84:PHE:O	1.61	1.00
47:BP:47:ASP:HB3	47:BP:48:PRO:CA	1.92	1.00
47:BP:71:VAL:H	47:BP:72:PRO:CD	1.72	1.00
51:BT:46:GLU:O	51:BT:65:LYS:HD2	1.60	1.00
57:BZ:100:VAL:HG23	57:BZ:126:VAL:HG21	1.43	1.00
1:AA:1318:A:H1'	19:AS:37:ARG:NH2	1.77	1.00
18:AR:58:LEU:HD13	18:AR:66:LEU:HD22	1.42	1.00
35:BA:2746:U:H2'	35:BA:2747:G:H5'	1.39	1.00
2:AB:115:LEU:HD13	2:AB:145:LEU:HD12	1.43	1.00
10:AJ:64:GLU:CD	14:AN:59:ALA:HA	1.86	1.00
1:AA:979:C:C3'	1:AA:980:C:H5''	1.92	1.00
2:AB:155:LEU:HD21	2:AB:159:PRO:HG3	1.43	1.00
12:AL:36:VAL:HG21	24:AY:406:PRO:CG	1.91	1.00
12:AL:45:PRO:HG2	12:AL:51:ALA:HB3	1.43	1.00
17:AQ:40:LYS:HD3	17:AQ:42:TYR:CZ	1.96	1.00
51:BT:24:PRO:HB3	51:BT:99:LEU:HD21	1.44	1.00
1:AA:110:C:H2'	1:AA:111:G:C8	1.96	1.00
52:BU:50:ARG:NH1	53:BV:72:VAL:HG12	1.76	1.00
52:BU:50:ARG:HH12	53:BV:72:VAL:HG12	1.23	1.00
4:AD:73:ARG:O	4:AD:77:ASN:HB2	1.60	0.99
35:BA:1499:C:H2'	35:BA:1500:G:C8	1.97	0.99
35:BA:2312:U:C2'	35:BA:2313:C:H5''	1.91	0.99
45:BN:5:VAL:HG12	45:BN:7:LYS:HG3	1.41	0.99
1:AA:1471:G:H2'	1:AA:1472:U:C6	1.97	0.99
13:AM:13:LYS:HA	13:AM:44:ARG:HH11	1.27	0.99
24:AY:135:THR:CG2	24:AY:136:PRO:CD	2.36	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:786:C:H2'	35:BA:787:U:H6	1.24	0.99
24:AY:473:TRP:HH2	24:AY:500:ASN:HB2	0.93	0.99
35:BA:1121:C:H2'	35:BA:1122:G:H8	1.25	0.99
35:BA:1170:G:H22	35:BA:1179:C:H42	1.03	0.99
42:BH:106:THR:HG21	42:BH:112:PRO:HA	1.37	0.99
51:BT:60:THR:HG22	51:BT:77:PRO:HA	1.44	0.99
1:AA:800:G:HO2'	1:AA:801:U:H6	1.05	0.99
27:B2:25:VAL:HG12	27:B2:29:LYS:HE2	1.42	0.99
35:BA:1665:A:H2'	35:BA:1666:G:H5''	1.44	0.99
24:AY:296:PHE:CD1	24:AY:331:LEU:HD11	1.97	0.99
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.03	0.99
24:AY:291:ALA:CA	24:AY:361:PRO:HG3	1.91	0.99
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	1.77	0.99
35:BA:1844:C:C2'	35:BA:1845:G:H5'	1.92	0.99
1:AA:979:C:H3'	1:AA:980:C:C5'	1.93	0.99
35:BA:2113:U:H2'	35:BA:2114:A:H8	1.25	0.99
35:BA:2199:A:H5'	35:BA:2200:C:OP2	1.63	0.99
42:BH:67:LEU:HG	42:BH:71:LEU:HD12	1.42	0.99
35:BA:2593:U:H2'	35:BA:2594:C:C5	1.97	0.99
57:BZ:33:LEU:CD1	57:BZ:34:ASN:H	1.74	0.99
1:AA:351:G:H4'	1:AA:352:C:OP1	1.63	0.99
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.41	0.99
38:BD:8:PRO:HB3	38:BD:14:ARG:HB2	1.40	0.99
48:BQ:36:ALA:HB2	48:BQ:103:MET:HE3	1.45	0.99
12:AL:27:LEU:HD22	12:AL:28:LYS:N	1.78	0.99
33:B8:8:LYS:HZ3	33:B8:11:LYS:NZ	1.58	0.99
35:BA:833:U:H5''	47:BP:48:PRO:CG	1.93	0.99
51:BT:28:VAL:HG22	51:BT:47:GLY:H	1.27	0.99
2:AB:115:LEU:O	2:AB:118:LEU:HB2	1.63	0.98
24:AY:94:ASP:CG	24:AY:442:GLY:HA3	1.88	0.98
24:AY:111:MET:HE1	24:AY:139:THR:HG23	0.99	0.98
40:BF:84:VAL:O	40:BF:86:GLY:N	1.95	0.98
48:BQ:114:ALA:O	48:BQ:118:LEU:HD12	1.61	0.98
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.28	0.98
17:AQ:75:ARG:HH12	17:AQ:77:VAL:HG22	1.26	0.98
24:AY:111:MET:HE2	24:AY:139:THR:HG23	1.45	0.98
24:AY:470:THR:HG21	24:AY:472:ARG:HH21	1.25	0.98
38:BD:148:GLU:HB2	38:BD:151:LYS:HD3	1.45	0.98
50:BS:15:ARG:O	50:BS:18:ILE:HD13	1.61	0.98
24:AY:76:GLN:HE21	24:AY:85:ASN:ND2	1.61	0.98
35:BA:1467:C:H2'	35:BA:1468:C:H6	1.22	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.27	0.98
40:BF:103:LYS:HE3	40:BF:106:ARG:HH21	1.26	0.98
42:BH:76:VAL:O	42:BH:79:VAL:HG22	1.63	0.98
52:BU:112:ARG:HH12	53:BV:46:VAL:HG11	1.23	0.98
57:BZ:5:LEU:HD13	57:BZ:39:VAL:HG11	1.45	0.98
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.43	0.98
38:BD:16:MET:HB3	38:BD:207:GLY:HA3	1.43	0.98
15:AO:3:ILE:CG1	15:AO:8:LYS:HE2	1.92	0.98
24:AY:105:ALA:CA	24:AY:319:ARG:HH11	1.76	0.98
35:BA:500:G:N2	35:BA:502:A:H3'	1.79	0.98
40:BF:111:ALA:HB2	40:BF:206:ILE:HG21	1.43	0.98
41:BG:34:LEU:HA	41:BG:161:THR:HG22	1.40	0.98
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.46	0.98
35:BA:433:C:H2'	35:BA:434:U:H6	1.25	0.98
5:AE:33:VAL:HG22	5:AE:43:LEU:HD13	1.46	0.98
38:BD:158:ALA:O	38:BD:196:VAL:HG11	1.62	0.98
39:BE:114:ALA:HB3	39:BE:160:TYR:HB3	1.43	0.98
22:AV:48:C:H4'	22:AV:49:G:H5''	1.43	0.98
38:BD:176:ARG:HG2	38:BD:176:ARG:NH1	1.71	0.98
50:BS:46:VAL:HG12	50:BS:47:THR:H	1.29	0.98
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	1.78	0.98
24:AY:324:LYS:HD3	24:AY:358:GLU:HB2	1.41	0.98
35:BA:2402:C:H2'	35:BA:2403:C:H5'	1.46	0.98
51:BT:23:ARG:NH2	51:BT:120:ARG:HD3	1.79	0.98
35:BA:565:C:H4'	35:BA:1253:A:N1	1.79	0.97
37:BC:49:ILE:HG22	37:BC:204:ALA:CB	1.93	0.97
39:BE:7:VAL:HG23	39:BE:194:GLY:H	1.29	0.97
40:BF:110:LEU:HA	40:BF:183:VAL:HG11	1.46	0.97
35:BA:797:C:H2'	35:BA:798:G:C8	1.97	0.97
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.00	0.97
24:AY:342:ILE:HD11	24:AY:345:ALA:CB	1.93	0.97
35:BA:2125:G:H21	35:BA:2173:A:N6	1.62	0.97
35:BA:2444:G:OP1	40:BF:68:LYS:HE3	1.64	0.97
38:BD:124:PRO:HB2	38:BD:129:ASN:HD21	1.27	0.97
1:AA:60:A:OP2	1:AA:387:U:H4'	1.64	0.97
13:AM:75:ALA:HB1	13:AM:79:LYS:HE3	1.43	0.97
24:AY:150:ASP:O	24:AY:154:LEU:HG	1.62	0.97
35:BA:1310:G:H2'	35:BA:1311:G:H5'	1.45	0.97
35:BA:2177:C:O2'	37:BC:168:THR:HG21	1.63	0.97
42:BH:123:PHE:HA	42:BH:133:VAL:HG22	1.43	0.97
5:AE:20:GLN:HG2	5:AE:21:ALA:N	1.79	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:47:ARG:HB3	6:AF:47:ARG:NH1	1.79	0.97
22:AV:61:C:C3'	22:AV:62:C:H5''	1.94	0.97
24:AY:32:LYS:NZ	24:AY:260:LEU:HA	1.78	0.97
35:BA:631:A:OP1	47:BP:64:LYS:HE3	1.61	0.97
36:BB:57:A:H8	41:BG:27:ASN:HD21	1.07	0.97
37:BC:6:ARG:NH2	37:BC:7:TYR:HA	1.80	0.97
40:BF:157:VAL:HG23	40:BF:194:MET:HA	1.46	0.97
45:BN:23:LEU:HB3	45:BN:60:ILE:HG21	1.47	0.97
46:BO:92:GLU:HG3	46:BO:93:PRO:HD2	1.46	0.97
1:AA:753:A:H5''	15:AO:69:TYR:OH	1.64	0.97
35:BA:1924:C:H2'	35:BA:1924:C:OP2	1.63	0.97
36:BB:35:U:H2'	36:BB:36:C:H6	1.30	0.97
38:BD:263:ARG:HH11	38:BD:263:ARG:HG2	1.30	0.97
50:BS:12:PHE:H	50:BS:12:PHE:HD1	1.03	0.97
2:AB:87:ARG:HH11	2:AB:223:ILE:HD11	1.29	0.97
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.27	0.97
24:AY:225:GLN:HA	24:AY:228:ARG:HB2	1.46	0.97
35:BA:1899:G:N2	35:BA:1902:C:H41	1.61	0.97
13:AM:88:ARG:HG3	13:AM:98:VAL:HG11	1.44	0.97
35:BA:1199:U:H2'	35:BA:1200:C:H6	1.27	0.97
35:BA:2746:U:C2'	35:BA:2747:G:H5'	1.92	0.97
57:BZ:51:ALA:HA	57:BZ:55:HIS:HD2	1.26	0.97
24:AY:369:ASN:HD22	24:AY:373:ILE:CG1	1.78	0.97
35:BA:754:C:H2'	35:BA:755:C:C6	2.00	0.97
35:BA:1528(A):A:H62	35:BA:1541:G:N2	1.63	0.97
51:BT:58:ASN:H	51:BT:58:ASN:ND2	1.57	0.97
1:AA:754:C:H4'	15:AO:72:ARG:HH12	1.30	0.97
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.30	0.97
35:BA:2183:C:H2'	35:BA:2184:G:C8	1.99	0.97
35:BA:2833:G:C3'	35:BA:2834:G:H5''	1.94	0.97
38:BD:26:LYS:HZ3	38:BD:113:VAL:HG21	1.24	0.97
48:BQ:10:ARG:HB2	48:BQ:10:ARG:HH11	1.27	0.97
52:BU:31:SER:CB	52:BU:34:LYS:HB2	1.95	0.97
53:BV:47:VAL:HG12	53:BV:52:VAL:HB	1.46	0.97
1:AA:951:G:H2'	1:AA:952:U:H6	1.18	0.96
2:AB:51:LEU:HD23	2:AB:55:PHE:HE2	1.30	0.96
22:AV:1:C:HO5'	22:AV:1:C:H6	1.09	0.96
38:BD:13:ARG:CA	38:BD:16:MET:HG2	1.94	0.96
47:BP:131:SER:OG	47:BP:134:ALA:HB3	1.64	0.96
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	1.95	0.96
48:BQ:141:GLN:NE2	57:BZ:72:ARG:HD3	1.79	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1030:C:H2'	1:AA:1030(A):G:O4'	1.63	0.96
24:AY:164:ILE:HD11	24:AY:252:THR:HG23	1.46	0.96
47:BP:21:ARG:HD3	47:BP:29:LYS:HE2	1.47	0.96
1:AA:295:C:H2'	1:AA:296:U:H6	1.29	0.96
24:AY:10:VAL:HG12	24:AY:279:PRO:HG2	1.44	0.96
33:B8:13:ARG:HD2	47:BP:61:ARG:HH11	1.27	0.96
39:BE:54:GLN:O	39:BE:75:VAL:HG23	1.65	0.96
48:BQ:67:ARG:HH11	48:BQ:67:ARG:HB3	1.29	0.96
54:BW:8:ARG:CA	54:BW:102:HIS:HB3	1.94	0.96
1:AA:295:C:H2'	1:AA:296:U:C6	2.01	0.96
2:AB:69:LEU:O	2:AB:162:ILE:HG13	1.65	0.96
35:BA:1915:U:O2'	35:BA:1916:A:H5'	1.64	0.96
35:BA:2298:A:H2'	35:BA:2299:G:O4'	1.62	0.96
35:BA:2696:U:H2'	35:BA:2697:G:C8	1.99	0.96
38:BD:201:HIS:CE1	38:BD:204:ILE:HG21	1.99	0.96
42:BH:41:MET:SD	42:BH:53:GLU:O	2.24	0.96
45:BN:27:ALA:HA	45:BN:30:ILE:HD12	1.44	0.96
47:BP:23:PRO:HD2	47:BP:33:ARG:HH21	1.30	0.96
1:AA:740:U:OP2	15:AO:2:PRO:HB3	1.66	0.96
1:AA:1491:G:H2'	1:AA:1492:A:C8	1.98	0.96
12:AL:36:VAL:HG11	12:AL:82:VAL:HG22	1.45	0.96
24:AY:138:LEU:HB2	24:AY:268:MET:HE1	1.47	0.96
24:AY:473:TRP:HZ2	24:AY:496:ASP:OD2	1.46	0.96
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.44	0.96
50:BS:13:ARG:CG	50:BS:14:VAL:H	1.75	0.96
1:AA:1061:G:O2'	1:AA:1062:U:H5'	1.65	0.96
35:BA:884:C:H3'	35:BA:885:C:H5''	1.47	0.96
35:BA:888:C:N4	35:BA:890:A:OP1	1.99	0.96
35:BA:2086:U:H2'	35:BA:2087:G:H8	1.25	0.96
41:BG:101:ILE:HG22	41:BG:105:LYS:HZ1	1.26	0.96
1:AA:1437:C:H2'	1:AA:1438:G:C8	2.01	0.96
20:AT:87:LYS:O	20:AT:91:LEU:HG	1.66	0.96
35:BA:1190:G:H5'	47:BP:35:HIS:H	1.29	0.96
1:AA:1032:G:H2'	1:AA:1033:G:C8	2.00	0.96
35:BA:272(J):C:H2'	35:BA:274:G:H5''	1.45	0.96
35:BA:1845:G:H2'	35:BA:1846:G:H8	1.30	0.96
49:BR:45:ARG:O	49:BR:49:ASP:HB2	1.66	0.96
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	1.79	0.96
35:BA:2305:A:H5''	41:BG:134:GLY:CA	1.96	0.96
48:BQ:44:ALA:HA	48:BQ:47:ILE:CD1	1.94	0.96
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.27	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:331:LEU:HB3	24:AY:379:PHE:HE2	1.15	0.95
36:BB:102:A:H3'	36:BB:103:G:H8	1.25	0.95
41:BG:52:ILE:H	41:BG:52:ILE:HD13	1.30	0.95
55:BX:40:LYS:HG3	55:BX:51:VAL:HB	1.46	0.95
1:AA:1047:G:H5''	14:AN:4:LYS:HE2	1.44	0.95
45:BN:90:MET:HE1	45:BN:94:HIS:HB2	1.46	0.95
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.00	0.95
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.66	0.95
24:AY:346:LEU:HB2	24:AY:366:GLY:HA3	1.44	0.95
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.31	0.95
35:BA:2305:A:C2	35:BA:2306:C:H1'	2.02	0.95
54:BW:8:ARG:HA	54:BW:102:HIS:HB3	0.98	0.95
56:BY:46:LYS:N	56:BY:62:GLU:HG2	1.80	0.95
20:AT:78:ALA:HA	20:AT:81:LYS:HD3	1.43	0.95
35:BA:2183:C:H2'	35:BA:2184:G:H8	1.31	0.95
37:BC:10:LEU:HB3	37:BC:220:PRO:HG3	0.96	0.95
38:BD:248:SER:OG	38:BD:252:TRP:CE2	2.17	0.95
47:BP:100:LEU:HB2	47:BP:106:LEU:HD22	1.48	0.95
1:AA:1191:A:H5''	3:AC:4:LYS:HZ1	1.29	0.95
24:AY:155:LEU:O	24:AY:158:VAL:HG23	1.66	0.95
45:BN:31:ALA:O	45:BN:35:ARG:HG2	1.65	0.95
50:BS:23:ARG:HB3	50:BS:24:LEU:HD22	1.49	0.95
1:AA:390:C:H4'	16:AP:28:ARG:HH21	1.28	0.95
35:BA:1930:G:N2	35:BA:1968:G:H2'	1.81	0.95
35:BA:2070:G:H2'	35:BA:2071:A:C8	2.02	0.95
39:BE:52:LEU:HD23	39:BE:75:VAL:HB	1.44	0.95
40:BF:108:LYS:O	40:BF:112:MET:HB2	1.64	0.95
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.01	0.95
10:AJ:7:LYS:C	10:AJ:8:LEU:HD12	1.90	0.95
15:AO:29:VAL:HG21	15:AO:67:LEU:HD21	1.48	0.95
25:B0:51:VAL:HG21	25:B0:79:VAL:O	1.66	0.95
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.67	0.95
11:AK:38:ASN:HD22	11:AK:38:ASN:N	1.63	0.95
35:BA:1222:C:H2'	35:BA:1223:G:H5''	1.47	0.95
35:BA:925:C:H2'	35:BA:926:A:H5''	1.46	0.95
35:BA:2121:G:H2'	35:BA:2122:U:C6	2.02	0.95
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.02	0.95
36:BB:20:C:H2'	36:BB:21:G:H5''	1.46	0.95
38:BD:147:LEU:HD23	38:BD:183:ARG:NH2	1.81	0.95
41:BG:42:GLY:HA2	41:BG:90:LEU:H	1.29	0.95
24:AY:12:LYS:HG3	24:AY:82:CYS:HA	1.49	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:782:A:H2	38:BD:226:MET:HG2	1.31	0.95
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.67	0.95
38:BD:33:LEU:HG	38:BD:34:VAL:HG13	1.49	0.95
39:BE:154:LYS:O	39:BE:156:MET:HG3	1.67	0.95
24:AY:101:ARG:CZ	24:AY:390:ILE:HG23	1.97	0.94
24:AY:335:ARG:HG2	24:AY:335:ARG:HH21	1.32	0.94
27:B2:2:LYS:O	27:B2:6:VAL:HG23	1.67	0.94
35:BA:1676:A:H2'	35:BA:1677:A:C8	2.02	0.94
40:BF:126:VAL:O	40:BF:196:LEU:HG	1.64	0.94
4:AD:58:LEU:HD12	4:AD:59:ARG:HH12	1.29	0.94
15:AO:54:ARG:HG3	15:AO:58:MET:HE1	1.46	0.94
35:BA:1038:C:H2'	35:BA:1039:G:H5''	1.47	0.94
40:BF:126:VAL:HG11	40:BF:142:TRP:CH2	2.01	0.94
24:AY:21:HIS:CG	24:AY:22:PRO:HD2	2.02	0.94
27:B2:43:GLN:HG2	27:B2:44:LEU:H	1.27	0.94
35:BA:142:A:H8	35:BA:1595:G:H21	1.05	0.94
35:BA:628:G:C2'	35:BA:629:G:H5''	1.95	0.94
35:BA:1971:A:C8	38:BD:241:PRO:HB3	2.02	0.94
35:BA:2199:A:H5''	35:BA:2200:C:H5	1.30	0.94
35:BA:2744:G:H22	42:BH:143:GLN:HE22	0.98	0.94
50:BS:36:TYR:N	50:BS:36:TYR:HD1	1.65	0.94
57:BZ:141:VAL:HA	57:BZ:144:LEU:HD23	1.45	0.94
19:AS:6:LYS:N	19:AS:6:LYS:HD2	1.81	0.94
24:AY:30:THR:HG23	24:AY:86:LEU:HD21	1.47	0.94
35:BA:1155:A:O2'	35:BA:1156:A:H2'	1.67	0.94
54:BW:14:PRO:HG2	54:BW:78:GLU:CG	1.96	0.94
1:AA:112:G:H5'	1:AA:389:A:H4'	1.48	0.94
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	1.81	0.94
35:BA:1747:G:H2'	35:BA:1747(A):G:H8	1.32	0.94
37:BC:47:LEU:HD23	37:BC:208:PHE:CZ	2.01	0.94
38:BD:182:LEU:C	38:BD:272:ALA:HB2	1.91	0.94
40:BF:6:VAL:CG1	40:BF:7:TYR:H	1.80	0.94
1:AA:1124:G:H2'	1:AA:1145:C:H41	1.30	0.94
20:AT:16:HIS:O	20:AT:19:SER:HB3	1.67	0.94
24:AY:13:ARG:HD3	24:AY:363:ASP:OD1	1.67	0.94
35:BA:2594:C:H2'	35:BA:2595:G:C8	2.01	0.94
37:BC:214:VAL:HG23	37:BC:224:ILE:HD13	1.46	0.94
38:BD:126:GLN:O	38:BD:193:VAL:HG11	1.67	0.94
2:AB:102:LEU:HD22	2:AB:176:GLU:HB3	1.48	0.94
2:AB:223:ILE:O	2:AB:226:ARG:HB2	1.68	0.94
24:AY:183:TYR:HE2	24:AY:189:GLU:H	1.12	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:14:ILE:HG13	29:B4:31:ILE:HB	1.46	0.94
35:BA:528:A:H2	35:BA:2043:C:H4'	1.31	0.94
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.32	0.94
35:BA:2329:G:H1	35:BA:2386:C:H42	1.02	0.94
1:AA:1145:C:HO2'	1:AA:1146:A:H8	0.94	0.94
5:AE:41:VAL:O	5:AE:66:MET:HA	1.67	0.94
9:AI:10:ARG:HG3	9:AI:75:ASP:HB3	1.50	0.94
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	1.98	0.94
24:AY:201:ILE:HG23	24:AY:262:ASN:HB3	1.49	0.94
35:BA:532:A:HO2'	35:BA:2021:C:H5	1.10	0.94
35:BA:786:C:H2'	35:BA:787:U:C6	2.02	0.94
35:BA:2100:G:H3'	35:BA:2101:G:C8	2.03	0.94
40:BF:181:LEU:HD11	40:BF:186:ILE:HD11	1.47	0.94
41:BG:63:ILE:HD12	41:BG:141:PHE:HE2	1.31	0.94
47:BP:39:LYS:O	47:BP:41:ARG:HG2	1.68	0.94
52:BU:21:ALA:HB2	52:BU:39:LEU:HD21	1.50	0.94
1:AA:799:G:H2'	1:AA:800:G:C8	2.01	0.94
15:AO:49:ASP:OD2	15:AO:52:SER:HB3	1.68	0.94
16:AP:67:THR:N	16:AP:70:ALA:HB3	1.83	0.94
22:AV:52:G:H1	22:AV:62:C:H42	1.06	0.94
24:AY:26:LYS:O	24:AY:30:THR:HB	1.68	0.94
35:BA:1993:U:H4'	39:BE:128:SER:OG	1.68	0.94
35:BA:2375:G:H1'	35:BA:2379:G:H22	1.32	0.94
36:BB:22:U:H3	36:BB:61:G:H1	0.94	0.94
38:BD:18:VAL:HG23	38:BD:211:ARG:NH2	1.83	0.94
42:BH:38:SER:CB	42:BH:64:LEU:HD11	1.98	0.94
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	1.83	0.93
33:B8:3:LYS:HD3	35:BA:242:G:O5'	1.68	0.93
35:BA:143:G:C1'	55:BX:37:THR:HG21	1.98	0.93
35:BA:597:U:O2'	47:BP:15:ARG:HD3	1.68	0.93
39:BE:171:GLU:O	39:BE:184:VAL:HA	1.68	0.93
42:BH:85:LYS:NZ	42:BH:87:LEU:HD12	1.82	0.93
1:AA:554:C:OP1	12:AL:22:SER:OG	1.86	0.93
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.67	0.93
24:AY:297:THR:HB	24:AY:322:SER:OG	1.66	0.93
57:BZ:151:HIS:HB3	57:BZ:171:ILE:H	1.33	0.93
1:AA:1266:G:H22	1:AA:1268:A:H5''	1.29	0.93
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	1.48	0.93
30:B5:57:VAL:HG12	30:B5:58:LEU:HD12	1.50	0.93
35:BA:1414:G:H1	35:BA:1588:C:H42	1.15	0.93
35:BA:2092:U:H4'	35:BA:2093:G:H5''	1.48	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:23:ARG:HG3	46:BO:24:VAL:H	1.31	0.93
14:AN:53:LEU:HB3	14:AN:56:VAL:HG21	1.50	0.93
33:B8:7:HIS:CE1	33:B8:9:GLY:HA3	2.03	0.93
35:BA:2001:A:H2'	35:BA:2002:G:C8	2.02	0.93
39:BE:35:GLN:HG2	39:BE:36:ARG:H	1.30	0.93
51:BT:108:ARG:HB3	51:BT:111:ARG:NH2	1.82	0.93
57:BZ:100:VAL:HG23	57:BZ:126:VAL:CG2	1.98	0.93
35:BA:999:U:O2'	35:BA:1000:A:H5'	1.67	0.93
50:BS:29:PHE:CE1	50:BS:31:SER:HB2	2.03	0.93
33:B8:8:LYS:NZ	33:B8:11:LYS:HZ3	1.65	0.93
33:B8:25:MET:HG2	47:BP:64:LYS:HB2	1.50	0.93
35:BA:1695:G:H2'	35:BA:1696:G:H5'	1.50	0.93
1:AA:507:C:OP2	1:AA:508:C:H2'	1.68	0.93
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.50	0.93
10:AJ:43:ARG:HB2	10:AJ:67:THR:HG23	1.51	0.93
24:AY:16:PHE:HA	24:AY:106:VAL:CG2	1.99	0.93
24:AY:101:ARG:CD	24:AY:390:ILE:HG12	1.99	0.93
35:BA:1434:A:H61	35:BA:1558:A:H62	1.12	0.93
38:BD:176:ARG:HH11	38:BD:176:ARG:CG	1.80	0.93
51:BT:3:ARG:HB3	51:BT:6:LEU:HB2	1.51	0.93
6:AF:11:ASN:HB3	6:AF:14:LEU:HD23	1.49	0.93
24:AY:395:PRO:HA	24:AY:441:VAL:HG22	1.50	0.93
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.04	0.93
35:BA:2523:G:C2'	35:BA:2524:G:H5''	1.98	0.93
38:BD:213:ARG:NH1	38:BD:219:PRO:HD3	1.82	0.93
42:BH:151:ILE:H	42:BH:151:ILE:HD12	1.32	0.93
57:BZ:122:ARG:HH11	57:BZ:122:ARG:HG2	1.33	0.93
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	1.69	0.93
35:BA:989:G:H5'	35:BA:1157:G:H4'	1.49	0.93
40:BF:6:VAL:HG12	40:BF:7:TYR:N	1.82	0.93
4:AD:53:ASP:O	4:AD:56:VAL:HG23	1.67	0.93
4:AD:99:SER:CB	4:AD:139:ARG:HG3	1.99	0.93
24:AY:263:PHE:HD2	24:AY:263:PHE:O	1.49	0.93
42:BH:132:ARG:CG	42:BH:133:VAL:H	1.82	0.93
50:BS:89:ARG:HB3	50:BS:92:TYR:HB3	1.50	0.93
1:AA:1323:G:H4'	1:AA:1363:C:O2	1.69	0.92
26:B1:23:LYS:CD	26:B1:28:GLY:HA3	1.98	0.92
35:BA:828:U:H2'	35:BA:829:A:C8	2.04	0.92
38:BD:36:PRO:O	38:BD:37:LEU:HB2	1.68	0.92
40:BF:179:GLU:HB3	40:BF:205:ARG:NH2	1.84	0.92
49:BR:47:PHE:C	49:BR:51:LEU:HD13	1.94	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:6:HIS:CD2	3:AC:8:ILE:HB	2.04	0.92
18:AR:74:ARG:HA	18:AR:79:LEU:O	1.68	0.92
24:AY:291:ALA:HA	24:AY:361:PRO:HG3	0.95	0.92
35:BA:264:C:H4'	35:BA:428:A:N1	1.84	0.92
35:BA:612:C:H2'	35:BA:613:G:H5''	1.47	0.92
35:BA:1141:U:OP2	45:BN:63:THR:HG23	1.69	0.92
35:BA:1892:C:H2'	35:BA:1893:C:C5'	1.99	0.92
38:BD:9:TYR:HD1	38:BD:10:THR:N	1.67	0.92
38:BD:164:GLN:O	38:BD:175:LEU:HD22	1.69	0.92
42:BH:106:THR:CG2	42:BH:112:PRO:HA	1.98	0.92
48:BQ:133:ARG:HH11	48:BQ:133:ARG:HB3	1.31	0.92
22:AV:31:G:H1	22:AV:39:C:H42	0.95	0.92
24:AY:307:MET:HG2	24:AY:312:ARG:CA	1.98	0.92
25:B0:43:THR:HG22	35:BA:2331:G:O3'	1.69	0.92
53:BV:21:ARG:HB3	53:BV:91:TYR:HB2	1.52	0.92
2:AB:47:THR:O	2:AB:51:LEU:HD12	1.67	0.92
5:AE:12:LEU:C	5:AE:13:ILE:HD12	1.93	0.92
32:B7:46:VAL:HG12	32:B7:47:ARG:H	1.34	0.92
37:BC:62:VAL:HG21	37:BC:192:PHE:HA	1.51	0.92
51:BT:29:ARG:HE	51:BT:86:ILE:HG23	1.33	0.92
1:AA:105:G:H2'	1:AA:106:C:C6	2.05	0.92
7:AG:29:LYS:HB3	7:AG:105:VAL:HG21	1.48	0.92
24:AY:108:CYS:HA	24:AY:135:THR:HG22	1.51	0.92
32:B7:6:GLN:O	35:BA:686:G:H1'	1.70	0.92
35:BA:803:U:O2'	35:BA:804:A:H5'	1.68	0.92
38:BD:247:ALA:HB1	38:BD:252:TRP:O	1.69	0.92
42:BH:132:ARG:CG	42:BH:133:VAL:N	2.33	0.92
51:BT:55:ASN:H	51:BT:59:THR:HG22	1.34	0.92
24:AY:527:ARG:NH1	24:AY:529:HIS:HA	1.84	0.92
25:B0:51:VAL:HG22	25:B0:81:VAL:HG22	1.51	0.92
31:B6:38:LYS:HA	31:B6:48:VAL:HA	1.47	0.92
37:BC:47:LEU:HD11	37:BC:171:ILE:HB	1.52	0.92
48:BQ:141:GLN:HE22	57:BZ:72:ARG:HA	1.34	0.92
3:AC:36:ASP:HB3	3:AC:40:ARG:HH12	1.33	0.92
12:AL:126:LYS:CB	24:AY:487:ARG:HH21	1.83	0.92
35:BA:1097:U:O2'	44:BK:6:UNK:HA	1.69	0.92
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.05	0.92
1:AA:1220:G:H21	19:AS:54:GLY:HA3	1.35	0.92
24:AY:227:LEU:O	24:AY:231:LEU:N	2.02	0.92
24:AY:462:VAL:HG12	24:AY:463:TYR:N	1.85	0.92
57:BZ:120:ILE:HG12	57:BZ:172:ALA:HA	1.48	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:120:THR:OG1	8:AH:123:GLU:HG3	1.70	0.92
32:B7:40:TRP:CH2	35:BA:459:U:H4'	2.05	0.92
34:B9:36:GLN:HE22	35:BA:1031:G:H21	1.08	0.92
35:BA:1273:U:O2'	35:BA:1274:A:H5''	1.69	0.92
35:BA:1499:C:H2'	35:BA:1500:G:H8	1.29	0.92
35:BA:1543:C:H3'	35:BA:1544:A:C5'	1.99	0.92
35:BA:1590:U:H2'	35:BA:1591:G:H5''	1.52	0.92
38:BD:9:TYR:HD1	38:BD:10:THR:H	0.98	0.92
55:BX:80:ILE:O	55:BX:80:ILE:HG13	1.69	0.92
9:AI:85:LEU:HD12	9:AI:86:VAL:N	1.85	0.92
35:BA:118:A:H5'	35:BA:119:A:H8	1.35	0.92
35:BA:972:G:H2'	35:BA:973:A:C8	2.04	0.92
35:BA:1655:A:H4'	39:BE:115:GLY:H	1.32	0.92
51:BT:52:ILE:HA	51:BT:61:PHE:HA	1.50	0.92
1:AA:711:G:H2'	1:AA:712:A:C8	2.03	0.91
24:AY:431:ILE:HD13	24:AY:431:ILE:H	1.34	0.91
35:BA:579:G:H5''	35:BA:2018:G:H5''	1.49	0.91
35:BA:1925:C:O2'	35:BA:1926:U:H5''	1.70	0.91
35:BA:2786:U:H2'	35:BA:2787:C:C6	2.05	0.91
51:BT:50:ILE:HG23	51:BT:99:LEU:O	1.69	0.91
56:BY:15:VAL:HG12	56:BY:20:TYR:O	1.70	0.91
1:AA:1309:G:OP1	13:AM:88:ARG:HD2	1.70	0.91
24:AY:219:VAL:HG23	24:AY:224:ALA:HB2	1.50	0.91
24:AY:462:VAL:HG12	24:AY:463:TYR:H	1.35	0.91
35:BA:471:A:H2'	35:BA:472:A:H5''	1.52	0.91
35:BA:1467:C:H2'	35:BA:1468:C:C6	2.04	0.91
35:BA:2839:G:C5'	49:BR:46:GLY:HA2	1.99	0.91
38:BD:128:GLY:N	38:BD:193:VAL:HG13	1.85	0.91
53:BV:39:LEU:HB3	53:BV:47:VAL:HG21	1.49	0.91
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.34	0.91
3:AC:152:ILE:HG12	3:AC:167:TRP:HB2	1.50	0.91
24:AY:302:LYS:O	24:AY:316:ALA:HA	1.68	0.91
35:BA:880:G:H1	35:BA:897:C:H42	1.10	0.91
38:BD:32:SER:O	38:BD:36:PRO:HD3	1.71	0.91
55:BX:8:ILE:HD12	55:BX:8:ILE:H	1.36	0.91
6:AF:67:MET:HE2	6:AF:68:PRO:O	1.71	0.91
24:AY:168:PRO:HB3	24:AY:171:TRP:CZ2	2.05	0.91
35:BA:432:A:H2'	35:BA:433:C:C6	2.06	0.91
35:BA:2023:G:H1	35:BA:2040:C:H42	1.18	0.91
38:BD:68:LYS:HB3	38:BD:70:TRP:CH2	2.06	0.91
39:BE:24:THR:HG21	39:BE:188:VAL:HG11	1.53	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:4:LYS:HA	54:BW:106:ILE:HG22	1.51	0.91
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.32	0.91
11:AK:59:TYR:CE1	11:AK:63:LEU:HD21	2.05	0.91
12:AL:36:VAL:CG2	24:AY:406:PRO:HG2	2.01	0.91
15:AO:68:ARG:O	15:AO:72:ARG:N	2.02	0.91
24:AY:419:LEU:HD13	24:AY:449:VAL:HG12	1.52	0.91
45:BN:40:PRO:O	52:BU:64:ARG:NH1	2.03	0.91
49:BR:56:LYS:HE2	49:BR:88:ARG:HA	1.50	0.91
51:BT:121:ILE:O	51:BT:124:ASP:HB2	1.70	0.91
42:BH:68:THR:HA	42:BH:71:LEU:HB3	1.49	0.91
45:BN:9:VAL:HG11	45:BN:39:ARG:NH2	1.85	0.91
55:BX:63:LYS:HG3	55:BX:72:LYS:HG2	1.52	0.91
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.34	0.91
6:AF:25:ILE:CA	6:AF:28:ARG:HH11	1.83	0.91
35:BA:94(A):G:C2'	35:BA:95:G:H5''	2.00	0.91
35:BA:1845:G:H2'	35:BA:1846:G:C8	2.05	0.91
38:BD:210:GLY:O	38:BD:211:ARG:HB2	1.67	0.91
45:BN:2:LYS:NZ	52:BU:95:LEU:HD21	1.85	0.91
57:BZ:100:VAL:CG2	57:BZ:126:VAL:HG21	2.01	0.91
20:AT:18:GLN:HE21	20:AT:22:ARG:HH12	0.93	0.91
24:AY:33:VAL:HG12	24:AY:34:LEU:HD23	1.51	0.91
24:AY:140:PHE:CZ	24:AY:257:GLY:O	2.23	0.91
37:BC:86:ALA:HB3	37:BC:94:VAL:CG1	2.01	0.91
41:BG:161:THR:HG21	41:BG:172:LEU:HD13	1.53	0.91
42:BH:26:VAL:HG21	42:BH:76:VAL:HG22	1.51	0.91
51:BT:85:LYS:HB3	51:BT:85:LYS:NZ	1.85	0.91
1:AA:363:A:OP1	12:AL:33:ARG:HD2	1.70	0.91
2:AB:185:ILE:HG23	2:AB:199:TYR:HB2	1.53	0.91
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.01	0.91
35:BA:1021:A:H62	35:BA:1141:U:H3	1.11	0.91
35:BA:1509(B):A:H2'	35:BA:1510:G:O4'	1.70	0.91
35:BA:1639:U:H4'	35:BA:2699:C:H4'	1.50	0.91
35:BA:2415:G:H4'	47:BP:66:GLY:C	1.94	0.91
41:BG:46:ALA:C	41:BG:47:LYS:HD2	1.95	0.91
1:AA:404:U:H2'	1:AA:405:U:H6	1.34	0.91
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.53	0.91
4:AD:13:ARG:HA	4:AD:33:MET:HE1	1.50	0.91
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.53	0.91
9:AI:9:ARG:HB3	9:AI:104:ARG:NH1	1.86	0.91
24:AY:445:GLN:O	24:AY:448:VAL:HB	1.69	0.91
28:B3:7:LYS:O	28:B3:54:VAL:HG13	1.70	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1448:G:H2'	35:BA:1449:A:C8	2.06	0.91
35:BA:1572:A:O2'	35:BA:1573:G:H5'	1.70	0.91
35:BA:1824:G:OP1	38:BD:52:ARG:HD2	1.71	0.91
46:BO:23:ARG:HG3	46:BO:24:VAL:N	1.84	0.91
48:BQ:12:GLN:HG2	48:BQ:73:PRO:HD2	1.52	0.91
48:BQ:53:ALA:O	48:BQ:56:ARG:HB2	1.70	0.91
49:BR:55:ALA:HA	49:BR:80:PHE:CE1	2.06	0.91
12:AL:91:LYS:O	12:AL:92:ASP:HB2	1.70	0.90
24:AY:210:LEU:O	24:AY:215:LEU:HD22	1.71	0.90
38:BD:186:HIS:HE2	38:BD:188:GLU:CD	1.78	0.90
48:BQ:63:LYS:HG3	57:BZ:175:VAL:HG21	1.52	0.90
50:BS:87:PHE:HD1	50:BS:88:ASP:H	1.14	0.90
57:BZ:125:LEU:HD23	57:BZ:164:ALA:O	1.70	0.90
1:AA:923:A:OP1	5:AE:21:ALA:HB2	1.70	0.90
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.53	0.90
4:AD:102:ASP:HB3	4:AD:121:VAL:HG21	1.52	0.90
11:AK:115:PRO:C	11:AK:117:ASN:H	1.79	0.90
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.53	0.90
33:B8:56:GLU:CD	33:B8:56:GLU:H	1.79	0.90
35:BA:2393:A:H2'	35:BA:2394:C:H6	1.34	0.90
35:BA:2703:C:O2'	35:BA:2704:C:H5'	1.70	0.90
35:BA:2786:U:H2'	35:BA:2787:C:H6	1.34	0.90
41:BG:52:ILE:HG12	41:BG:53:LEU:H	1.32	0.90
41:BG:52:ILE:HB	41:BG:54:GLU:OE1	1.71	0.90
42:BH:71:LEU:HD22	42:BH:72:ILE:CD1	2.01	0.90
47:BP:88:LEU:HD21	47:BP:125:VAL:HG21	1.53	0.90
1:AA:1423:G:H5''	46:BO:49:ARG:HH22	1.36	0.90
3:AC:67:THR:HG23	3:AC:102:ASN:HB2	1.52	0.90
4:AD:125:HIS:HD1	4:AD:152:SER:HG	1.11	0.90
8:AH:8:ASP:O	8:AH:12:ARG:HG3	1.71	0.90
27:B2:10:LEU:O	27:B2:14:ARG:HG3	1.70	0.90
35:BA:1840:G:H1	35:BA:1902:C:H42	1.13	0.90
35:BA:2758:A:N6	42:BH:67:LEU:HD11	1.86	0.90
40:BF:5:ALA:HB2	40:BF:24:LEU:HD11	1.51	0.90
43:BJ:27:UNK:CB	43:BJ:113:UNK:HA	2.02	0.90
50:BS:35:ILE:HD11	50:BS:99:LYS:HE3	1.52	0.90
14:AN:13:THR:H	14:AN:14:PRO:CD	1.82	0.90
35:BA:1614:A:H61	54:BW:87:PRO:HA	1.35	0.90
37:BC:53:ARG:HH12	37:BC:55:ASP:HB2	1.37	0.90
38:BD:147:LEU:N	38:BD:154:LYS:HD2	1.87	0.90
51:BT:58:ASN:HD22	51:BT:58:ASN:N	1.60	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1035:A:H2'	1:AA:1036:G:H8	1.35	0.90
1:AA:1386:G:C2'	1:AA:1387:G:H5''	2.00	0.90
2:AB:68:ILE:H	2:AB:90:MET:CE	1.84	0.90
10:AJ:16:LEU:HD11	10:AJ:70:ARG:HG3	1.54	0.90
18:AR:22:VAL:HG23	18:AR:55:ARG:O	1.72	0.90
24:AY:513:LEU:HD22	24:AY:517:ARG:CZ	2.02	0.90
37:BC:29:VAL:CG1	37:BC:222:VAL:HG21	2.02	0.90
24:AY:74:VAL:CG2	24:AY:87:LEU:CD2	2.49	0.90
33:B8:13:ARG:HD2	47:BP:61:ARG:NH1	1.85	0.90
38:BD:91:ARG:O	38:BD:107:ALA:HB2	1.71	0.90
1:AA:197:A:N6	1:AA:221:C:H4'	1.85	0.90
1:AA:950:U:OP2	13:AM:102:ARG:NH1	2.05	0.90
38:BD:165:ILE:HG13	38:BD:175:LEU:HD21	1.54	0.90
1:AA:279:A:H5''	1:AA:281:G:O4'	1.71	0.90
35:BA:2187:G:H2'	35:BA:2188:C:H5'	1.54	0.90
37:BC:22:ILE:HD12	37:BC:190:ARG:HG2	1.51	0.90
42:BH:106:THR:HG21	42:BH:112:PRO:CB	2.01	0.90
1:AA:1359:C:OP2	14:AN:22:THR:HG21	1.71	0.90
3:AC:112:SER:O	3:AC:116:VAL:HG23	1.72	0.90
4:AD:108:LEU:HD23	4:AD:110:PHE:CE2	2.06	0.90
7:AG:57:GLU:O	7:AG:60:LYS:HB3	1.72	0.90
7:AG:121:ALA:O	7:AG:125:MET:HG3	1.70	0.90
25:B0:37:LEU:HD21	25:B0:60:PHE:HA	1.54	0.90
35:BA:469:G:OP1	40:BF:78:ILE:HD11	1.71	0.90
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.72	0.90
38:BD:87:ASN:HB2	38:BD:88:ARG:CZ	2.01	0.90
40:BF:126:VAL:HG23	40:BF:127:GLU:N	1.87	0.90
41:BG:109:VAL:O	41:BG:112:PRO:HD2	1.72	0.90
51:BT:62:THR:HG22	51:BT:75:ILE:HG23	1.52	0.90
1:AA:754:C:H4'	15:AO:72:ARG:NH1	1.86	0.90
11:AK:124:LYS:HZ3	11:AK:125:PHE:HE1	0.95	0.90
24:AY:113:ILE:CG2	24:AY:114:ASP:H	1.85	0.90
24:AY:369:ASN:ND2	24:AY:373:ILE:HG12	1.87	0.90
35:BA:1720:U:C2'	35:BA:1721:G:H5''	2.01	0.90
35:BA:2605:U:H2'	35:BA:2606:C:C5	2.06	0.90
40:BF:57:VAL:HG12	40:BF:59:TYR:H	1.33	0.90
1:AA:299:G:H2'	1:AA:300:A:C8	2.06	0.89
1:AA:977:A:H2'	1:AA:977:A:N3	1.84	0.89
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.51	0.89
30:B5:13:LYS:O	30:B5:16:ARG:HB3	1.72	0.89
30:B5:13:LYS:HA	30:B5:16:ARG:HB3	1.54	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:484:C:OP1	56:BY:49:VAL:HG13	1.71	0.89
35:BA:1252:G:O4'	52:BU:33:ARG:HD3	1.73	0.89
35:BA:2035:G:H3'	35:BA:2036:C:H5'	1.54	0.89
35:BA:2744:G:N2	42:BH:143:GLN:NE2	2.19	0.89
37:BC:24:GLU:HA	37:BC:27:HIS:HB2	1.54	0.89
41:BG:63:ILE:HD12	41:BG:141:PHE:CE2	2.06	0.89
56:BY:13:VAL:HB	56:BY:28:LYS:HZ3	1.35	0.89
1:AA:180:U:H2'	1:AA:181:G:H5'	1.54	0.89
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.52	0.89
13:AM:45:VAL:HA	13:AM:48:LEU:HD11	1.53	0.89
22:AV:36:U:O2'	22:AV:37:A:H5'	1.71	0.89
22:AV:51:C:H2'	22:AV:52:G:H8	1.30	0.89
24:AY:197:LYS:CB	24:AY:202:GLN:HG3	2.02	0.89
34:B9:6:SER:HB2	35:BA:2466:C:H5''	1.53	0.89
35:BA:900:A:H5'	35:BA:901:A:OP2	1.72	0.89
35:BA:2839:G:OP1	49:BR:46:GLY:HA3	1.73	0.89
38:BD:53:PHE:HB3	38:BD:218:ARG:O	1.72	0.89
51:BT:68:TYR:O	51:BT:70:VAL:N	2.05	0.89
54:BW:69:LEU:HD23	54:BW:108:GLY:O	1.71	0.89
1:AA:621:A:H2'	1:AA:622:A:H8	1.34	0.89
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	1.86	0.89
24:AY:13:ARG:HD3	24:AY:363:ASP:CG	1.97	0.89
24:AY:110:LEU:HD13	24:AY:268:MET:HE2	1.52	0.89
24:AY:331:LEU:HD23	24:AY:379:PHE:CD2	2.05	0.89
41:BG:71:THR:HB	41:BG:89:GLY:C	1.98	0.89
24:AY:174:GLY:O	24:AY:179:PHE:CD1	2.25	0.89
35:BA:1919:A:C2'	35:BA:1920:C:H5''	2.02	0.89
24:AY:10:VAL:HG12	24:AY:279:PRO:CG	2.02	0.89
35:BA:199:A:N6	35:BA:2433:A:H2'	1.87	0.89
10:AJ:4:ILE:CG2	10:AJ:74:ILE:HD11	2.02	0.89
24:AY:109:CYS:CA	24:AY:137:ILE:HG23	2.03	0.89
25:B0:42:GLY:HA3	35:BA:2331:G:O4'	1.72	0.89
41:BG:39:ILE:HD12	41:BG:157:ILE:HG12	1.55	0.89
47:BP:30:THR:HG22	47:BP:31:ALA:H	1.37	0.89
1:AA:720:C:H1'	18:AR:50:ILE:HG21	1.54	0.89
1:AA:1228:C:H2'	1:AA:1229:A:H5'	1.54	0.89
2:AB:121:LEU:O	2:AB:121:LEU:HD23	1.71	0.89
35:BA:2838:G:O2'	49:BR:45:ARG:HD3	1.71	0.89
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.35	0.89
47:BP:97:PRO:O	47:BP:98:GLU:HB3	1.73	0.89
1:AA:882:C:H41	12:AL:5:PRO:HB3	1.38	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:33:VAL:CG2	5:AE:43:LEU:HD13	2.03	0.89
13:AM:76:ALA:O	13:AM:80:ARG:HB2	1.72	0.89
24:AY:425:VAL:CG1	24:AY:445:GLN:HG3	2.03	0.89
24:AY:443:VAL:HG23	24:AY:444:LEU:N	1.88	0.89
35:BA:433:C:H2'	35:BA:434:U:C6	2.06	0.89
35:BA:575:A:H2'	35:BA:576:U:H6	1.38	0.89
39:BE:35:GLN:HG2	39:BE:36:ARG:N	1.85	0.89
47:BP:83:VAL:HG23	47:BP:105:LEU:HD22	1.53	0.89
3:AC:32:LEU:O	3:AC:35:GLU:HB2	1.73	0.89
4:AD:89:THR:HA	4:AD:92:VAL:HB	1.52	0.89
24:AY:14:ARG:HD3	24:AY:276:ALA:HB3	1.54	0.89
24:AY:221:GLU:HA	24:AY:225:GLN:HE22	1.36	0.89
24:AY:359:ALA:HA	24:AY:363:ASP:OD2	1.72	0.89
35:BA:996:A:H61	35:BA:1159:U:H3	1.18	0.89
37:BC:2:LYS:O	37:BC:2:LYS:HD3	1.70	0.89
53:BV:72:VAL:HG23	53:BV:85:LYS:HB3	1.52	0.89
57:BZ:4:ARG:HG2	57:BZ:58:VAL:HB	1.54	0.89
11:AK:126:ARG:HB3	11:AK:126:ARG:NH1	1.87	0.89
24:AY:80:HIS:HD2	24:AY:273:VAL:HG21	1.37	0.89
35:BA:2570:G:H2'	35:BA:2571:C:H6	1.38	0.89
38:BD:45:ASN:CG	38:BD:46:GLN:H	1.77	0.89
41:BG:33:ARG:H	41:BG:162:THR:HB	1.35	0.89
46:BO:61:VAL:HG12	46:BO:87:ILE:CD1	2.02	0.89
47:BP:124:LYS:HD3	47:BP:143:GLY:HA3	1.54	0.89
48:BQ:133:ARG:HG2	48:BQ:134:ARG:H	1.35	0.89
52:BU:102:GLU:HB2	52:BU:105:VAL:HG23	1.53	0.89
57:BZ:20:ARG:NH1	57:BZ:20:ARG:HB2	1.88	0.89
24:AY:247:LEU:HD22	24:AY:277:PRO:HG3	1.55	0.88
35:BA:140:G:H1'	35:BA:141:A:C2	2.07	0.88
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.05	0.88
48:BQ:35:VAL:HG13	48:BQ:130:LYS:HB3	1.52	0.88
50:BS:13:ARG:HG3	50:BS:14:VAL:N	1.87	0.88
24:AY:110:LEU:HD13	24:AY:268:MET:HE1	1.55	0.88
24:AY:164:ILE:HD11	24:AY:251:ILE:C	1.97	0.88
35:BA:581:C:H2'	35:BA:582:G:H8	1.36	0.88
35:BA:1750:G:O2'	35:BA:1751:C:H5'	1.73	0.88
35:BA:2684:U:H1'	46:BO:70:LYS:HD2	1.54	0.88
1:AA:974:A:C8	14:AN:31:ARG:HD3	2.07	0.88
22:AV:2:G:O2'	22:AV:3:C:H5''	1.71	0.88
24:AY:113:ILE:HG22	24:AY:114:ASP:N	1.88	0.88
28:B3:31:LEU:HD23	28:B3:32:GLN:N	1.88	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:581:C:H2'	35:BA:582:G:C8	2.09	0.88
36:BB:35:U:H2'	36:BB:36:C:C6	2.08	0.88
38:BD:9:TYR:OH	38:BD:13:ARG:NH1	2.05	0.88
40:BF:26:ALA:O	40:BF:27:GLU:HG3	1.72	0.88
49:BR:28:LEU:HD23	49:BR:29:LEU:HD13	1.54	0.88
57:BZ:102:LEU:HD21	57:BZ:124:ILE:HD11	1.53	0.88
4:AD:8:VAL:HG23	4:AD:22:LYS:HE2	1.54	0.88
9:AI:112:LYS:HD3	9:AI:112:LYS:C	1.99	0.88
35:BA:1061:U:C4'	35:BA:1070:A:H1'	2.03	0.88
4:AD:125:HIS:ND1	4:AD:152:SER:OG	2.05	0.88
26:B1:5:CYS:HB2	26:B1:46:LEU:HD21	1.56	0.88
30:B5:4:HIS:CB	30:B5:5:PRO:HD3	2.02	0.88
36:BB:40:U:H3'	36:BB:41:U:H5''	1.55	0.88
39:BE:117:MET:HA	39:BE:122:PHE:N	1.87	0.88
47:BP:16:ARG:HD3	47:BP:18:ARG:H	1.36	0.88
51:BT:16:ARG:HH11	51:BT:16:ARG:HB3	1.38	0.88
52:BU:36:ARG:HH11	52:BU:36:ARG:HB3	1.37	0.88
1:AA:186:C:H5'	20:AT:78:ALA:HB1	1.55	0.88
1:AA:1204:A:H2'	1:AA:1205:U:C6	2.09	0.88
24:AY:138:LEU:HD11	24:AY:272:LEU:HB3	1.54	0.88
24:AY:255:PHE:CE1	24:AY:275:TRP:HZ3	1.90	0.88
24:AY:420:SER:HB2	24:AY:427:VAL:HG22	1.55	0.88
30:B5:19:ARG:C	30:B5:21:SER:H	1.77	0.88
35:BA:576:U:H2'	35:BA:577:G:C8	2.08	0.88
35:BA:1020:A:H5'	35:BA:1021:A:C2	2.09	0.88
35:BA:1919:A:H3'	35:BA:1920:C:H5'	1.55	0.88
38:BD:182:LEU:N	38:BD:272:ALA:CB	2.36	0.88
40:BF:154:VAL:HG22	40:BF:191:ARG:HB3	1.54	0.88
48:BQ:110:THR:HG23	48:BQ:113:GLN:OE1	1.72	0.88
49:BR:96:ARG:HD3	49:BR:98:LEU:HD11	1.51	0.88
57:BZ:8:TYR:HD2	57:BZ:38:TYR:HH	0.95	0.88
1:AA:834:C:H2'	1:AA:835:U:C6	2.08	0.88
9:AI:9:ARG:HB3	9:AI:104:ARG:HH12	1.37	0.88
9:AI:26:VAL:HG13	9:AI:61:ALA:HB3	1.55	0.88
10:AJ:53:PRO:C	14:AN:41:ARG:HH22	1.80	0.88
12:AL:36:VAL:HG11	24:AY:406:PRO:CB	2.03	0.88
24:AY:359:ALA:HB1	24:AY:363:ASP:HB2	1.56	0.88
25:B0:37:LEU:HG	25:B0:59:LEU:O	1.73	0.88
28:B3:47:VAL:HA	28:B3:50:VAL:CG2	2.04	0.88
41:BG:76:SER:OG	41:BG:84:LYS:HG3	1.74	0.88
48:BQ:46:GLN:O	48:BQ:49:ALA:HB3	1.74	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:44:LEU:O	2:AB:47:THR:HB	1.74	0.88
2:AB:98:LEU:O	2:AB:101:MET:HG2	1.73	0.88
4:AD:12:CYS:HA	4:AD:19:LEU:HB2	1.55	0.88
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.54	0.88
6:AF:74:ASP:HB3	6:AF:77:ARG:HH21	1.39	0.88
19:AS:31:ILE:HG22	19:AS:48:THR:O	1.74	0.88
24:AY:419:LEU:CD2	24:AY:424:ALA:HB3	2.04	0.88
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	1.74	0.88
35:BA:2431:U:H6	35:BA:2433:A:OP2	1.57	0.88
15:AO:85:LEU:N	15:AO:85:LEU:HD23	1.88	0.88
20:AT:18:GLN:HE21	20:AT:22:ARG:NH1	1.71	0.88
20:AT:81:LYS:O	20:AT:85:MET:HG3	1.74	0.88
21:AU:5:ASP:OD1	21:AU:7:ARG:HB2	1.74	0.88
24:AY:32:LYS:HZ2	24:AY:260:LEU:HA	1.34	0.88
24:AY:403:LEU:HD13	24:AY:461:ALA:HB2	1.53	0.88
24:AY:473:TRP:CZ2	24:AY:496:ASP:OD2	2.27	0.88
35:BA:814:C:O2'	35:BA:815:C:H5'	1.74	0.88
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.04	0.88
51:BT:26:ASP:HA	51:BT:48:ILE:HG23	1.55	0.88
52:BU:102:GLU:HB2	52:BU:105:VAL:CG2	2.04	0.88
57:BZ:162:GLU:O	57:BZ:163:LEU:HD23	1.74	0.88
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.09	0.88
14:AN:12:ARG:NH1	14:AN:14:PRO:HG2	1.88	0.88
24:AY:171:TRP:HE1	24:AY:234:VAL:HG11	1.37	0.88
35:BA:445:C:H2'	35:BA:446:G:C8	2.08	0.88
35:BA:954:G:H4'	48:BQ:13:GLN:OE1	1.72	0.88
38:BD:183:ARG:CD	38:BD:270:ILE:HG23	2.03	0.88
42:BH:66:GLY:HA2	42:BH:69:ARG:HD2	1.55	0.88
1:AA:250:A:H4'	1:AA:251:G:O5'	1.70	0.87
22:AV:31:G:H1	22:AV:39:C:N4	1.73	0.87
24:AY:62:MET:HG2	24:AY:451:ALA:HB3	1.55	0.87
24:AY:138:LEU:CD2	24:AY:253:PRO:CG	2.49	0.87
35:BA:1005:C:H2'	35:BA:1006:C:H6	1.38	0.87
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.03	0.87
35:BA:1892:C:C2'	35:BA:1893:C:C5'	2.52	0.87
39:BE:167:VAL:HG11	39:BE:188:VAL:HA	1.54	0.87
53:BV:52:VAL:HG13	53:BV:55:ALA:HB3	1.55	0.87
57:BZ:166:SER:HB2	57:BZ:168:GLU:N	1.88	0.87
1:AA:981:U:C5	1:AA:982:U:H2'	2.09	0.87
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.39	0.87
19:AS:78:ARG:O	19:AS:81:ARG:HD3	1.73	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:52:G:H2'	22:AV:53:G:H8	1.39	0.87
28:B3:8:LEU:CD2	28:B3:31:LEU:HA	2.05	0.87
35:BA:540:C:H2'	35:BA:541:C:H6	1.39	0.87
37:BC:56:GLN:HA	37:BC:201:PRO:HB3	1.55	0.87
37:BC:156:ILE:HA	37:BC:160:ARG:HB2	1.56	0.87
38:BD:273:ARG:HH11	38:BD:273:ARG:HG3	1.40	0.87
9:AI:48:GLU:HA	9:AI:51:ARG:HD2	1.55	0.87
26:B1:80:LEU:HD23	26:B1:81:LYS:H	1.39	0.87
35:BA:893:C:C2'	35:BA:894:C:H5'	2.04	0.87
39:BE:7:VAL:HG23	39:BE:194:GLY:N	1.89	0.87
47:BP:23:PRO:HD2	47:BP:33:ARG:NH2	1.89	0.87
49:BR:2:ARG:O	49:BR:2:ARG:HD2	1.72	0.87
3:AC:157:ILE:CG2	3:AC:164:ARG:HH21	1.87	0.87
24:AY:182:VAL:HG12	24:AY:183:TYR:N	1.84	0.87
35:BA:370:G:H4'	35:BA:371:A:OP2	1.73	0.87
35:BA:636:G:H2'	47:BP:115:LEU:HD12	1.54	0.87
38:BD:24:ILE:HA	38:BD:82:ILE:HB	1.56	0.87
39:BE:50:GLY:HA2	39:BE:78:LEU:CB	2.03	0.87
47:BP:97:PRO:C	47:BP:99:LEU:H	1.80	0.87
5:AE:129:ILE:HD12	5:AE:129:ILE:N	1.89	0.87
10:AJ:65:LEU:HD13	14:AN:55:GLY:HA3	1.52	0.87
24:AY:308:ASP:H	24:AY:309:PRO:HD2	1.36	0.87
24:AY:457:TYR:HB2	24:AY:459:VAL:HG22	1.57	0.87
35:BA:81:G:H21	56:BY:2:ARG:HH12	1.18	0.87
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.09	0.87
57:BZ:59:LEU:O	57:BZ:66:SER:HA	1.74	0.87
1:AA:115:G:H1'	1:AA:116:A:N7	1.89	0.87
5:AE:77:PRO:CG	5:AE:142:LEU:HD22	2.05	0.87
17:AQ:94:ASN:O	17:AQ:98:LEU:HG	1.75	0.87
20:AT:20:LEU:O	20:AT:23:ARG:HB3	1.73	0.87
24:AY:151:PRO:HA	24:AY:154:LEU:HD12	1.53	0.87
24:AY:182:VAL:CG1	24:AY:183:TYR:H	1.87	0.87
36:BB:101:G:H2'	36:BB:102:A:O4'	1.74	0.87
39:BE:34:VAL:CG1	39:BE:78:LEU:HD22	2.04	0.87
46:BO:88:ASN:HD21	46:BO:92:GLU:HB3	1.39	0.87
47:BP:59:LEU:HA	47:BP:61:ARG:NE	1.89	0.87
48:BQ:141:GLN:HE22	57:BZ:72:ARG:CA	1.87	0.87
51:BT:26:ASP:HB3	51:BT:89:VAL:O	1.75	0.87
24:AY:32:LYS:CA	24:AY:35:LEU:HG	2.03	0.87
33:B8:8:LYS:HD3	33:B8:11:LYS:HD2	1.56	0.87
35:BA:621:A:H2'	35:BA:622:G:H5'	1.54	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1367:A:H2'	35:BA:1368:G:H5'	1.57	0.87
39:BE:13:ARG:CB	39:BE:22:PRO:HA	2.04	0.87
40:BF:32:LEU:HD22	40:BF:33:LEU:HD22	1.57	0.87
42:BH:85:LYS:HZ2	42:BH:87:LEU:HD12	1.35	0.87
42:BH:162:ILE:O	42:BH:162:ILE:HD13	1.75	0.87
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.09	0.87
2:AB:42:ILE:HD12	2:AB:203:GLY:N	1.90	0.87
22:AV:61:C:H3'	22:AV:62:C:C5'	2.02	0.87
24:AY:216:ASP:HA	24:AY:224:ALA:CB	2.04	0.87
24:AY:396:GLU:N	24:AY:440:ALA:O	2.07	0.87
27:B2:53:LEU:O	27:B2:57:ILE:HG12	1.75	0.87
35:BA:857:C:H42	35:BA:920:G:H1	1.18	0.87
35:BA:2077:A:O2'	35:BA:2078:C:H5'	1.74	0.87
35:BA:2530:A:H2'	35:BA:2531:A:H5''	1.54	0.87
37:BC:47:LEU:HD11	37:BC:171:ILE:HD12	1.55	0.87
38:BD:35:LYS:H	38:BD:36:PRO:CD	1.86	0.87
38:BD:144:ALA:HB3	38:BD:192:THR:HG21	1.56	0.87
41:BG:110:ALA:CB	41:BG:140:ILE:HD13	2.05	0.87
49:BR:94:TYR:N	49:BR:94:TYR:HD1	1.72	0.87
55:BX:12:VAL:HG23	55:BX:13:LEU:N	1.88	0.87
57:BZ:20:ARG:HB2	57:BZ:20:ARG:HH11	1.39	0.87
1:AA:681:C:H5''	38:BD:174:ILE:HD12	1.57	0.87
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.10	0.87
13:AM:91:ARG:HD2	13:AM:97:PRO:O	1.75	0.87
24:AY:138:LEU:HD12	24:AY:268:MET:CE	2.05	0.87
35:BA:2596:U:H1'	38:BD:244:ARG:NH2	1.89	0.87
42:BH:105:LEU:HD22	42:BH:105:LEU:H	1.40	0.87
53:BV:58:VAL:HG12	53:BV:59:ALA:H	1.40	0.87
19:AS:63:THR:HG22	19:AS:66:MET:SD	2.15	0.86
24:AY:6:TYR:O	24:AY:10:VAL:HG23	1.75	0.86
28:B3:26:LEU:HB2	28:B3:28:LEU:HD21	1.57	0.86
35:BA:672:C:C2'	35:BA:673:C:H5''	2.05	0.86
35:BA:1948:G:O2'	35:BA:1949:G:H5'	1.72	0.86
38:BD:92:ILE:CG2	38:BD:106:ILE:HA	2.04	0.86
38:BD:226:MET:HE2	38:BD:230:ASP:HB3	1.55	0.86
42:BH:98:LEU:HD13	42:BH:102:ALA:O	1.75	0.86
57:BZ:117:LEU:HD12	57:BZ:118:GLN:N	1.90	0.86
1:AA:790:A:H61	1:AA:1498:U:P	1.97	0.86
1:AA:1452:C:H5'	1:AA:1456:G:N1	1.90	0.86
8:AH:14:ARG:HG2	8:AH:18:ARG:HH21	1.40	0.86
35:BA:1423:G:H2'	35:BA:1424:G:H8	1.38	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1720:U:H2'	35:BA:1721:G:C5'	2.05	0.86
35:BA:1820:U:C6	38:BD:202:LYS:HD3	2.09	0.86
35:BA:2760:C:O2	42:BH:143:GLN:NE2	2.08	0.86
2:AB:196:LEU:HD12	2:AB:197:VAL:HG23	1.57	0.86
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.01	0.86
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	1.57	0.86
35:BA:884:C:C3'	35:BA:885:C:H5''	2.04	0.86
35:BA:1925:C:H2'	35:BA:1926:U:C5'	2.04	0.86
35:BA:2107:C:H2'	35:BA:2108:C:H6	1.40	0.86
35:BA:2262:U:H4'	35:BA:2328:A:C2	2.09	0.86
35:BA:2388:A:H5'	35:BA:2389:G:OP2	1.72	0.86
37:BC:161:ILE:HG12	37:BC:174:PRO:HG2	1.58	0.86
38:BD:212:SER:HA	38:BD:215:LEU:HD12	1.57	0.86
40:BF:8:GLN:HG3	40:BF:9:ILE:N	1.87	0.86
40:BF:42:ALA:HA	40:BF:45:ARG:HG3	1.57	0.86
42:BH:33:LEU:HD21	42:BH:136:ILE:HG22	1.56	0.86
49:BR:56:LYS:HE2	49:BR:88:ARG:CA	2.06	0.86
51:BT:89:VAL:HG21	51:BT:91:ARG:HH21	1.39	0.86
1:AA:918:A:H2'	1:AA:919:A:C8	2.10	0.86
2:AB:80:ILE:HD12	2:AB:80:ILE:H	1.38	0.86
12:AL:69:TYR:O	12:AL:71:PRO:HD3	1.76	0.86
16:AP:73:LEU:HA	16:AP:76:GLN:HE21	1.40	0.86
25:B0:43:THR:N	35:BA:2331:G:H4'	1.89	0.86
31:B6:52:VAL:HG22	31:B6:53:LYS:N	1.89	0.86
35:BA:121:G:H4'	35:BA:149:A:H5'	1.56	0.86
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.05	0.86
38:BD:24:ILE:HD11	38:BD:91:ARG:CB	2.05	0.86
38:BD:125:ILE:HD12	38:BD:137:PRO:HD3	1.58	0.86
38:BD:247:ALA:CB	38:BD:253:GLN:HA	2.06	0.86
4:AD:13:ARG:HA	4:AD:33:MET:CE	2.05	0.86
24:AY:21:HIS:HD2	24:AY:122:ARG:H	1.18	0.86
24:AY:527:ARG:HD2	24:AY:528:GLU:H	1.40	0.86
31:B6:35:GLU:HA	31:B6:35:GLU:OE1	1.75	0.86
33:B8:27:THR:HG22	47:BP:62:LEU:CD2	2.02	0.86
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.02	0.86
41:BG:97:ASP:O	41:BG:101:ILE:HG13	1.75	0.86
51:BT:54:ARG:HA	51:BT:59:THR:HB	1.58	0.86
1:AA:356:A:H5''	1:AA:367:U:C5	2.10	0.86
16:AP:45:THR:C	16:AP:47:ASP:H	1.82	0.86
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.37	0.86
35:BA:373:U:H2'	35:BA:374:A:H8	1.38	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1892:C:C2'	35:BA:1893:C:H5''	2.05	0.86
38:BD:33:LEU:HD21	38:BD:102:LYS:HB2	1.57	0.86
51:BT:107:ASP:H	51:BT:110:ILE:CG1	1.87	0.86
15:AO:63:ARG:O	15:AO:67:LEU:HG	1.74	0.86
18:AR:56:THR:HB	18:AR:58:LEU:HD12	1.58	0.86
22:AV:52:G:H2'	22:AV:53:G:C8	2.10	0.86
28:B3:37:LEU:HD22	28:B3:38:GLU:H	1.40	0.86
31:B6:52:VAL:CG2	31:B6:53:LYS:H	1.88	0.86
35:BA:1678:G:H8	35:BA:1678:G:O5'	1.58	0.86
38:BD:201:HIS:ND1	38:BD:204:ILE:CG2	2.38	0.86
39:BE:9:VAL:HG12	39:BE:25:VAL:O	1.76	0.86
1:AA:192:U:H5'	20:AT:102:GLY:O	1.75	0.86
11:AK:27:ASN:HA	11:AK:56:GLY:HA2	1.57	0.86
15:AO:39:LEU:HD13	15:AO:56:LEU:CD2	2.06	0.86
22:AV:7:G:H1	22:AV:66:C:H42	1.23	0.86
24:AY:99:THR:HA	24:AY:102:THR:OG1	1.74	0.86
24:AY:138:LEU:HD22	24:AY:275:TRP:CZ3	2.10	0.86
24:AY:420:SER:HA	24:AY:425:VAL:O	1.76	0.86
27:B2:10:LEU:HD21	27:B2:59:ARG:HD3	1.56	0.86
32:B7:24:THR:O	32:B7:28:ARG:HG3	1.76	0.86
35:BA:1272:A:H3'	35:BA:1273:U:H5''	1.57	0.86
35:BA:2712:U:O2'	35:BA:2712(A):A:H3'	1.75	0.86
45:BN:52:VAL:HG12	45:BN:53:VAL:H	1.41	0.86
46:BO:89:ASN:C	46:BO:91:LEU:H	1.83	0.86
3:AC:21:ARG:O	3:AC:58:GLU:HA	1.76	0.86
7:AG:139:GLU:O	7:AG:143:ARG:HG3	1.76	0.86
19:AS:23:ASN:HB2	29:B4:47:GLN:HG2	1.56	0.86
20:AT:91:LEU:C	20:AT:93:GLU:H	1.83	0.86
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.55	0.86
35:BA:1910:G:H1	35:BA:1920:C:H42	1.18	0.86
51:BT:11:GLU:CD	51:BT:11:GLU:H	1.82	0.86
51:BT:108:ARG:C	51:BT:110:ILE:H	1.79	0.86
1:AA:226:G:O2'	1:AA:227:G:H5'	1.75	0.86
1:AA:585:G:H4'	12:AL:8:ASN:HD22	1.39	0.86
5:AE:11:ILE:HD13	5:AE:105:VAL:HG13	1.58	0.86
15:AO:4:THR:HG22	15:AO:6:GLU:HB2	1.58	0.86
25:B0:14:ARG:HD3	35:BA:2280:G:O6	1.76	0.86
35:BA:1270:C:C5'	35:BA:1271:G:H5'	2.06	0.86
50:BS:36:TYR:N	50:BS:36:TYR:CD1	2.39	0.86
51:BT:56:GLY:O	51:BT:59:THR:HG23	1.75	0.86
1:AA:231:G:H2'	1:AA:232:G:H8	1.39	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:707:C:H2'	1:AA:708:C:C6	2.11	0.85
1:AA:1032:G:H2'	1:AA:1033:G:H8	1.41	0.85
1:AA:1330:U:H5'	1:AA:1331:G:OP2	1.76	0.85
2:AB:12:GLU:O	2:AB:16:HIS:ND1	2.08	0.85
12:AL:54:LYS:HD2	12:AL:54:LYS:H	1.39	0.85
13:AM:90:LEU:HD23	13:AM:90:LEU:H	1.40	0.85
24:AY:144:LEU:HB3	24:AY:179:PHE:CZ	2.11	0.85
24:AY:307:MET:CG	24:AY:312:ARG:HA	2.04	0.85
24:AY:324:LYS:CD	24:AY:358:GLU:HB2	2.06	0.85
35:BA:500:G:H22	35:BA:502:A:H3'	1.38	0.85
35:BA:871:U:H4'	48:BQ:69:PHE:CZ	2.12	0.85
35:BA:872:A:H5'	48:BQ:69:PHE:HE2	1.37	0.85
35:BA:1258:C:H1'	40:BF:84:VAL:HG21	1.57	0.85
35:BA:1670:C:H2'	35:BA:1671:U:O4'	1.76	0.85
35:BA:2840:C:OP1	49:BR:50:HIS:HA	1.76	0.85
42:BH:98:LEU:CB	42:BH:125:VAL:HG21	2.06	0.85
42:BH:132:ARG:HG2	42:BH:133:VAL:H	1.32	0.85
45:BN:3:THR:HG22	45:BN:5:VAL:HG23	1.58	0.85
45:BN:96:GLU:HG2	45:BN:97:ARG:H	1.41	0.85
46:BO:60:ALA:HB1	46:BO:85:VAL:O	1.75	0.85
52:BU:106:PHE:HA	52:BU:109:LEU:HD12	1.58	0.85
57:BZ:18:LEU:H	57:BZ:18:LEU:HD22	1.41	0.85
5:AE:12:LEU:HD22	5:AE:13:ILE:H	1.37	0.85
10:AJ:5:ARG:HG2	10:AJ:71:LEU:HD11	1.58	0.85
13:AM:22:ILE:HB	13:AM:25:ILE:HD12	1.56	0.85
16:AP:45:THR:O	16:AP:47:ASP:N	2.08	0.85
29:B4:35:VAL:HG13	29:B4:39:CYS:SG	2.16	0.85
35:BA:1428:C:N4	35:BA:1569:A:H3'	1.91	0.85
36:BB:106:G:H2'	36:BB:107:G:H8	1.39	0.85
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.06	0.85
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.91	0.85
1:AA:949:A:C2'	1:AA:950:U:H5'	2.06	0.85
1:AA:1484:C:O2'	35:BA:1961:C:H5'	1.75	0.85
4:AD:99:SER:HB3	4:AD:139:ARG:CG	2.03	0.85
24:AY:164:ILE:CG1	24:AY:252:THR:HG23	2.05	0.85
24:AY:168:PRO:CG	24:AY:171:TRP:CZ2	2.59	0.85
24:AY:303:ILE:HG13	24:AY:375:ILE:CD1	2.06	0.85
35:BA:654(T):C:H2'	35:BA:654(U):A:O4'	1.74	0.85
2:AB:8:LYS:O	2:AB:10:LEU:N	2.09	0.85
5:AE:87:SER:HB2	5:AE:130:ASN:HB3	1.57	0.85
6:AF:69:GLU:CD	6:AF:69:GLU:H	1.81	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:12:ILE:HG23	15:AO:27:VAL:CG1	2.06	0.85
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.39	0.85
22:AV:52:G:H1	22:AV:62:C:N4	1.73	0.85
35:BA:616:G:H5''	40:BF:103:LYS:HZ1	1.41	0.85
35:BA:729:G:O2'	35:BA:763:G:H4'	1.75	0.85
35:BA:1496:A:H2'	35:BA:1498:C:N4	1.91	0.85
35:BA:2540:C:H2'	35:BA:2541:A:O4'	1.76	0.85
38:BD:165:ILE:HD12	38:BD:165:ILE:N	1.91	0.85
1:AA:194:C:H2'	1:AA:195:A:H5''	1.57	0.85
24:AY:32:LYS:HA	24:AY:35:LEU:CG	2.02	0.85
27:B2:46:GLN:HB3	27:B2:48:HIS:HE1	1.40	0.85
35:BA:540:C:H2'	35:BA:541:C:C6	2.11	0.85
35:BA:877:U:O2'	35:BA:878:A:H5''	1.77	0.85
35:BA:962:G:N2	35:BA:963:U:H1'	1.91	0.85
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.06	0.85
39:BE:34:VAL:HG13	39:BE:48:GLN:HE21	1.40	0.85
41:BG:41:GLN:HG2	41:BG:155:MET:HB3	1.58	0.85
42:BH:122:THR:HG22	42:BH:123:PHE:N	1.91	0.85
45:BN:120:LEU:CD1	45:BN:122:VAL:HG23	2.07	0.85
49:BR:48:VAL:HA	49:BR:51:LEU:CD2	2.06	0.85
1:AA:658:G:O2'	15:AO:22:THR:HG21	1.77	0.85
9:AI:5:TYR:O	9:AI:84:ALA:HA	1.74	0.85
16:AP:60:LEU:HD11	16:AP:79:VAL:HG12	1.57	0.85
22:AV:48:C:C4'	22:AV:49:G:H5''	2.05	0.85
24:AY:138:LEU:HA	24:AY:253:PRO:HG2	1.59	0.85
24:AY:335:ARG:HG2	24:AY:335:ARG:NH2	1.87	0.85
35:BA:1199:U:H2'	35:BA:1200:C:C6	2.12	0.85
41:BG:170:ARG:HG3	41:BG:174:GLU:OE1	1.76	0.85
53:BV:72:VAL:HG23	53:BV:85:LYS:CB	2.07	0.85
57:BZ:10:ARG:HB3	57:BZ:36:LYS:HG3	1.58	0.85
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.40	0.85
10:AJ:50:ILE:HD13	10:AJ:60:ARG:HD3	1.59	0.85
11:AK:59:TYR:O	11:AK:62:GLN:HB3	1.76	0.85
24:AY:76:GLN:NE2	24:AY:85:ASN:HD21	1.75	0.85
33:B8:26:LYS:HB3	33:B8:44:LYS:HG3	1.59	0.85
35:BA:2257:U:O2'	35:BA:2258:C:H5'	1.77	0.85
37:BC:6:ARG:HH12	37:BC:10:LEU:HD21	1.41	0.85
46:BO:20:MET:O	46:BO:41:ALA:HB1	1.76	0.85
55:BX:12:VAL:CB	55:BX:17:ALA:HB1	2.07	0.85
57:BZ:48:PHE:CD1	57:BZ:52:SER:HA	2.12	0.85
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.55	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:70:PRO:CG	5:AE:142:LEU:HB3	2.06	0.85
19:AS:51:VAL:HB	19:AS:58:VAL:CG2	2.07	0.85
24:AY:470:THR:CG2	24:AY:472:ARG:HH21	1.90	0.85
35:BA:209:C:H5'	35:BA:681:G:H4'	1.57	0.85
35:BA:839:U:H2'	35:BA:840:C:H6	1.42	0.85
35:BA:1071:G:H5'	35:BA:1088:A:O2'	1.76	0.85
38:BD:117:VAL:HG21	38:BD:128:GLY:HA3	1.56	0.85
53:BV:38:LEU:O	53:BV:39:LEU:HD13	1.76	0.85
11:AK:27:ASN:HA	11:AK:56:GLY:CA	2.07	0.85
27:B2:50:ILE:HG21	35:BA:61:G:C5'	2.05	0.85
35:BA:330:A:C2	35:BA:1210:A:H2'	2.08	0.85
35:BA:803:U:C2'	35:BA:804:A:H5'	2.07	0.85
35:BA:1516:C:H2'	35:BA:1517:G:H5''	1.58	0.85
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.12	0.85
50:BS:65:VAL:O	50:BS:69:VAL:HG12	1.76	0.85
53:BV:7:THR:OG1	53:BV:25:LEU:HD11	1.75	0.85
1:AA:1166:G:N2	1:AA:1169:A:H3'	1.91	0.85
10:AJ:50:ILE:HD13	10:AJ:50:ILE:H	1.41	0.85
24:AY:171:TRP:NE1	24:AY:234:VAL:HG11	1.91	0.85
24:AY:377:ASP:C	24:AY:377:ASP:OD2	2.19	0.85
28:B3:5:LYS:HA	28:B3:36:VAL:HG12	1.57	0.85
30:B5:11:THR:HG23	35:BA:2615:U:O2'	1.77	0.85
35:BA:1310:G:C2'	35:BA:1311:G:H5'	2.05	0.85
35:BA:1547:C:O2'	35:BA:1548:C:H5'	1.76	0.85
35:BA:2469:A:N7	35:BA:2482:G:H1'	1.92	0.85
48:BQ:29:PHE:HE2	48:BQ:67:ARG:HH21	1.23	0.85
54:BW:88:ARG:HH11	54:BW:88:ARG:HG2	1.37	0.85
2:AB:53:ARG:O	2:AB:56:ARG:HB2	1.75	0.84
15:AO:50:HIS:O	15:AO:53:HIS:HB3	1.77	0.84
24:AY:14:ARG:HD3	24:AY:276:ALA:CB	2.06	0.84
24:AY:181:GLY:HA3	24:AY:263:PHE:HE1	1.40	0.84
24:AY:296:PHE:CD2	24:AY:331:LEU:HD11	2.12	0.84
35:BA:2839:G:H4'	49:BR:49:ASP:OD2	1.75	0.84
38:BD:106:ILE:O	38:BD:108:PRO:HD3	1.76	0.84
38:BD:201:HIS:O	38:BD:204:ILE:CG2	2.25	0.84
39:BE:51:PHE:O	39:BE:74:PRO:HB3	1.77	0.84
1:AA:356:A:H5''	1:AA:367:U:H5	1.40	0.84
3:AC:36:ASP:HB3	3:AC:40:ARG:NH1	1.92	0.84
5:AE:129:ILE:H	5:AE:129:ILE:CD1	1.90	0.84
10:AJ:65:LEU:CD1	14:AN:55:GLY:HA3	2.05	0.84
22:AV:17(A):U:O2'	22:AV:18:G:H4'	1.76	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:373:ILE:HG22	24:AY:374:GLN:N	1.90	0.84
35:BA:1468:C:H2'	35:BA:1469:A:H8	1.40	0.84
35:BA:2784:C:C1'	39:BE:37:ARG:HH12	1.89	0.84
35:BA:2840:C:H2'	35:BA:2841:C:H6	1.41	0.84
38:BD:87:ASN:HB2	38:BD:88:ARG:NH2	1.92	0.84
39:BE:65:GLY:O	39:BE:70:ALA:HB2	1.76	0.84
52:BU:69:CYS:HB2	52:BU:74:LEU:HD11	1.58	0.84
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.77	0.84
14:AN:12:ARG:HB3	14:AN:14:PRO:HD2	1.59	0.84
24:AY:296:PHE:CG	24:AY:331:LEU:CD1	2.53	0.84
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.58	0.84
39:BE:50:GLY:CA	39:BE:78:LEU:HB3	2.06	0.84
47:BP:9:ASN:H	47:BP:10:PRO:HD2	1.42	0.84
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.12	0.84
2:AB:113:HIS:O	2:AB:117:GLU:HB2	1.76	0.84
4:AD:108:LEU:O	4:AD:165:MET:HE2	1.77	0.84
24:AY:359:ALA:HB1	24:AY:363:ASP:CB	2.05	0.84
27:B2:50:ILE:HG22	27:B2:51:ARG:N	1.90	0.84
30:B5:30:LEU:HD11	54:BW:34:ASN:O	1.77	0.84
35:BA:1925:C:O2'	35:BA:1926:U:C6	2.30	0.84
35:BA:2801:A:H8	35:BA:2894:G:OP1	1.60	0.84
40:BF:28:ILE:H	40:BF:28:ILE:HD13	1.41	0.84
45:BN:26:LEU:O	45:BN:30:ILE:HG13	1.77	0.84
1:AA:404:U:H2'	1:AA:405:U:C6	2.11	0.84
5:AE:37:ARG:O	5:AE:38:GLN:HG2	1.78	0.84
6:AF:25:ILE:HA	6:AF:28:ARG:NH1	1.91	0.84
6:AF:82:ARG:HB2	6:AF:85:VAL:CG2	2.07	0.84
9:AI:114:TYR:CE2	10:AJ:59:SER:HA	2.12	0.84
16:AP:69:THR:HA	16:AP:72:ARG:HB3	1.60	0.84
34:B9:24:TYR:CZ	34:B9:35:ARG:HG3	2.12	0.84
35:BA:2137:C:N4	35:BA:2154:G:H22	1.75	0.84
35:BA:2348:U:O2'	35:BA:2349:G:H5'	1.78	0.84
57:BZ:10:ARG:HE	57:BZ:36:LYS:HB2	1.42	0.84
2:AB:127:ILE:HA	2:AB:135:GLN:NE2	1.93	0.84
7:AG:135:VAL:O	7:AG:138:LYS:HB3	1.76	0.84
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.07	0.84
35:BA:999:U:H5	35:BA:1154:G:C5	1.94	0.84
35:BA:1038:C:C2'	35:BA:1039:G:H5''	2.07	0.84
35:BA:2295:C:H2'	35:BA:2296:U:C6	2.13	0.84
35:BA:2329:G:H1	35:BA:2386:C:N4	1.76	0.84
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.12	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:61:ARG:HH11	45:BN:61:ARG:HG3	1.42	0.84
54:BW:25:ARG:HA	54:BW:71:VAL:CG1	2.07	0.84
1:AA:981:U:H2'	1:AA:982:U:C5	2.12	0.84
5:AE:84:PHE:CE1	5:AE:133:TYR:HB3	2.12	0.84
12:AL:92:ASP:O	12:AL:93:LEU:HD23	1.78	0.84
30:B5:3:LYS:HE2	35:BA:2611:U:O2'	1.78	0.84
35:BA:473:G:H5''	35:BA:508:G:N2	1.90	0.84
35:BA:723:G:H2'	35:BA:724:U:C6	2.13	0.84
35:BA:2491:U:H5'	35:BA:2570:G:H5''	1.60	0.84
40:BF:7:TYR:HB3	40:BF:16:GLY:O	1.76	0.84
1:AA:180:U:C2'	1:AA:181:G:H5'	2.08	0.84
2:AB:172:ILE:HD12	2:AB:172:ILE:N	1.92	0.84
11:AK:33:THR:HA	11:AK:39:PRO:HA	1.59	0.84
23:AX:14:A:H3'	23:AX:15:A:C5'	2.05	0.84
24:AY:111:MET:SD	24:AY:113:ILE:HD11	2.18	0.84
35:BA:122:G:H2'	35:BA:123:G:H8	1.40	0.84
35:BA:2389:G:H5''	35:BA:2390:U:H5'	1.58	0.84
42:BH:91:GLY:HA3	42:BH:94:TYR:CD2	2.12	0.84
47:BP:123:LEU:H	47:BP:123:LEU:HD23	1.42	0.84
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.57	0.84
12:AL:36:VAL:CG1	24:AY:406:PRO:HB3	2.07	0.84
12:AL:126:LYS:HE2	24:AY:487:ARG:NH2	1.92	0.84
14:AN:57:ARG:O	14:AN:59:ALA:N	2.11	0.84
32:B7:19:ARG:O	32:B7:22:MET:HB2	1.78	0.84
35:BA:1891:G:H2'	35:BA:1892:C:C6	2.11	0.84
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.13	0.84
37:BC:68:LEU:O	37:BC:177:LYS:HG2	1.77	0.84
38:BD:182:LEU:O	38:BD:272:ALA:HB2	1.78	0.84
52:BU:69:CYS:HB2	52:BU:74:LEU:CD1	2.08	0.84
54:BW:27:LYS:O	54:BW:71:VAL:HG23	1.78	0.84
1:AA:1368:G:OP2	9:AI:112:LYS:HD2	1.78	0.84
1:AA:1393:U:H2'	1:AA:1395:C:H5	1.42	0.84
1:AA:1495:U:C2'	1:AA:1496:C:H5'	2.06	0.84
7:AG:65:ALA:CB	7:AG:124:LEU:HD23	2.07	0.84
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	1.78	0.84
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.59	0.84
38:BD:71:ASP:CB	38:BD:103:ARG:HH12	1.91	0.84
40:BF:125:LEU:HD12	40:BF:196:LEU:HD21	1.60	0.84
42:BH:70:THR:HA	42:BH:73:ALA:HB3	1.59	0.84
49:BR:48:VAL:CA	49:BR:51:LEU:HD22	2.08	0.84
56:BY:43:ASN:HB3	56:BY:64:GLU:HA	1.59	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:49:VAL:O	56:BY:50:ARG:HB2	1.76	0.84
1:AA:310:G:H2'	1:AA:311:C:H6	1.42	0.83
1:AA:949:A:H2'	1:AA:950:U:H5'	1.59	0.83
1:AA:982:U:H4'	1:AA:983:A:O5'	1.78	0.83
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.60	0.83
2:AB:127:ILE:HA	2:AB:135:GLN:HE22	1.42	0.83
10:AJ:61:GLU:OE1	14:AN:45:ARG:HD2	1.77	0.83
27:B2:25:VAL:O	27:B2:29:LYS:HG2	1.78	0.83
35:BA:6:A:H2'	35:BA:7:G:C8	2.13	0.83
35:BA:272(J):C:C2'	35:BA:274:G:H5''	2.07	0.83
35:BA:1914:C:H5'	35:BA:1914:C:O2	1.78	0.83
37:BC:43:VAL:HG22	37:BC:214:VAL:HG22	1.60	0.83
55:BX:12:VAL:CG2	55:BX:13:LEU:H	1.90	0.83
56:BY:13:VAL:HB	56:BY:28:LYS:NZ	1.91	0.83
1:AA:375:U:H2'	1:AA:376:G:H8	1.43	0.83
1:AA:892:A:H2'	1:AA:893:C:C6	2.12	0.83
24:AY:404:LYS:O	24:AY:405:ASP:HB2	1.77	0.83
24:AY:428:PHE:HB2	24:AY:437:ILE:HG13	1.59	0.83
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.42	0.83
37:BC:47:LEU:HD12	37:BC:47:LEU:N	1.92	0.83
37:BC:76:ALA:HB2	37:BC:153:ILE:HD11	1.60	0.83
47:BP:28:GLY:O	47:BP:29:LYS:HD2	1.78	0.83
2:AB:100:GLY:HA2	2:AB:103:THR:OG1	1.78	0.83
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.24	0.83
4:AD:187:ARG:HB3	4:AD:187:ARG:NH1	1.93	0.83
22:AV:39:C:H2'	22:AV:40:C:H5'	1.60	0.83
25:B0:48:GLY:H	25:B0:51:VAL:HB	1.41	0.83
35:BA:612:C:C2'	35:BA:613:G:H5''	2.09	0.83
35:BA:1925:C:C2'	35:BA:1926:U:C5'	2.56	0.83
35:BA:2177:C:H5'	35:BA:2178:C:OP2	1.78	0.83
35:BA:2268:A:O2'	35:BA:2269:A:H5'	1.77	0.83
38:BD:79:VAL:HG22	38:BD:115:GLN:O	1.79	0.83
38:BD:242:ARG:HH11	38:BD:242:ARG:HG2	1.44	0.83
40:BF:157:VAL:CG2	40:BF:194:MET:HA	2.08	0.83
47:BP:71:VAL:H	47:BP:72:PRO:HD3	1.43	0.83
8:AH:1:MET:HE3	8:AH:3:THR:N	1.93	0.83
10:AJ:53:PRO:HA	14:AN:41:ARG:NH2	1.93	0.83
35:BA:654(M):C:H2'	35:BA:654(N):G:C8	2.13	0.83
35:BA:783:A:C2	35:BA:785:G:H1'	2.13	0.83
38:BD:73:VAL:C	38:BD:75:ILE:HD12	2.02	0.83
45:BN:9:VAL:HG21	45:BN:41:ASP:OD2	1.77	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.09	0.83
24:AY:136:PRO:O	24:AY:137:ILE:HG13	1.77	0.83
35:BA:1925:C:H2'	35:BA:1926:U:H5''	1.57	0.83
35:BA:2066:C:H2'	35:BA:2067:G:H8	1.44	0.83
38:BD:24:ILE:HG12	38:BD:82:ILE:CG2	2.08	0.83
1:AA:858:G:O2'	1:AA:859:A:H5''	1.79	0.83
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.78	0.83
1:AA:1489:G:H2'	1:AA:1490:C:C6	2.13	0.83
6:AF:47:ARG:HB3	6:AF:47:ARG:CZ	2.08	0.83
24:AY:135:THR:HG23	24:AY:136:PRO:HD2	0.85	0.83
24:AY:221:GLU:HG2	24:AY:222:ASP:N	1.94	0.83
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.77	0.83
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	1.94	0.83
51:BT:58:ASN:H	51:BT:58:ASN:HD22	0.84	0.83
52:BU:59:ARG:O	52:BU:63:VAL:HG23	1.76	0.83
1:AA:580:U:H2'	1:AA:581:G:O4'	1.77	0.83
1:AA:619:U:H2'	4:AD:135:LEU:HD21	1.58	0.83
1:AA:895:G:O6	1:AA:904:C:N3	2.10	0.83
1:AA:990:C:H2'	1:AA:991:U:C6	2.14	0.83
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.14	0.83
14:AN:47:LEU:HD13	14:AN:52:GLN:HB2	1.60	0.83
24:AY:168:PRO:HG2	24:AY:171:TRP:CZ2	2.13	0.83
24:AY:445:GLN:HA	24:AY:448:VAL:CG2	2.09	0.83
26:B1:46:LEU:HD13	26:B1:62:VAL:C	2.03	0.83
35:BA:909:A:H2'	35:BA:912:C:H41	1.42	0.83
35:BA:2509:G:O2'	35:BA:2510:C:H5'	1.79	0.83
37:BC:47:LEU:CD1	37:BC:171:ILE:HB	2.09	0.83
42:BH:105:LEU:H	42:BH:105:LEU:CD2	1.91	0.83
51:BT:80:SER:HB3	51:BT:81:PRO:HD3	1.59	0.83
1:AA:436:C:H5''	4:AD:156:GLU:CD	2.04	0.83
6:AF:72:VAL:HG13	6:AF:73:ASN:N	1.92	0.83
8:AH:13:ILE:O	8:AH:17:THR:HG23	1.77	0.83
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.59	0.83
15:AO:65:ARG:HH11	15:AO:65:ARG:CB	1.92	0.83
16:AP:56:ALA:O	16:AP:60:LEU:HG	1.78	0.83
24:AY:11:ALA:HA	24:AY:279:PRO:HD2	1.58	0.83
24:AY:196:GLY:O	24:AY:197:LYS:HG2	1.78	0.83
24:AY:263:PHE:CD2	24:AY:263:PHE:O	2.30	0.83
35:BA:721:C:H3'	35:BA:722:A:H8	1.44	0.83
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.42	0.83
35:BA:1427:A:H1'	35:BA:1428:C:C5	2.14	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1915:U:H2'	35:BA:1916:A:C5'	2.08	0.83
37:BC:37:PHE:CE1	37:BC:39:GLU:HG3	2.14	0.83
38:BD:169:GLU:OE1	38:BD:184:LYS:HD2	1.78	0.83
39:BE:199:ARG:HB2	39:BE:199:ARG:HH11	1.38	0.83
41:BG:110:ALA:HB2	41:BG:140:ILE:HD13	1.60	0.83
45:BN:58:ASP:OD2	45:BN:59:LYS:HG2	1.78	0.83
51:BT:107:ASP:H	51:BT:110:ILE:HG12	1.40	0.83
3:AC:121:ALA:O	3:AC:124:ILE:HB	1.79	0.83
4:AD:8:VAL:CG2	4:AD:22:LYS:HE2	2.08	0.83
12:AL:24:VAL:O	12:AL:26:ALA:N	2.12	0.83
22:AV:27:U:H2'	22:AV:28:C:H5'	1.61	0.83
24:AY:11:ALA:HA	24:AY:278:ALA:CB	2.08	0.83
35:BA:2265:U:H2'	35:BA:2266:A:C8	2.13	0.83
38:BD:6:PHE:CD2	38:BD:17:THR:HA	2.14	0.83
54:BW:14:PRO:CG	54:BW:101:SER:HB3	2.09	0.83
1:AA:112:G:C5'	1:AA:389:A:H4'	2.08	0.83
1:AA:1283:G:HO2'	1:AA:1284:C:H6	1.19	0.83
3:AC:48:TYR:HE1	3:AC:118:GLN:NE2	1.77	0.83
4:AD:19:LEU:HD23	4:AD:21:LEU:HD11	1.61	0.83
5:AE:81:GLU:HG2	5:AE:90:VAL:HG13	1.58	0.83
11:AK:52:GLY:H	11:AK:55:LYS:CE	1.91	0.83
29:B4:10:VAL:HG23	29:B4:11:PRO:HD2	1.61	0.83
33:B8:19:SER:HB2	33:B8:21:LYS:HE3	1.57	0.83
38:BD:9:TYR:OH	38:BD:13:ARG:HD3	1.78	0.83
38:BD:24:ILE:HG12	38:BD:82:ILE:HG22	1.61	0.83
38:BD:69:ARG:NE	38:BD:105:ILE:HD11	1.93	0.83
42:BH:94:TYR:HB3	42:BH:107:VAL:CG1	2.09	0.83
49:BR:17:ARG:HB2	49:BR:17:ARG:NH1	1.94	0.83
10:AJ:50:ILE:CA	10:AJ:60:ARG:HG2	2.07	0.82
15:AO:54:ARG:CG	15:AO:58:MET:HE2	2.08	0.82
24:AY:26:LYS:HG2	58:AY:1000:GCP:O2B	1.79	0.82
24:AY:403:LEU:HD22	24:AY:403:LEU:H	1.41	0.82
35:BA:1915:U:C2'	35:BA:1916:A:H5'	2.09	0.82
35:BA:2009:G:H2'	35:BA:2010:G:H8	1.43	0.82
35:BA:2588:G:H2'	35:BA:2589:A:O4'	1.78	0.82
36:BB:13:A:O2'	36:BB:14:U:H3'	1.77	0.82
40:BF:29:ASN:HB3	40:BF:112:MET:SD	2.18	0.82
49:BR:48:VAL:HA	49:BR:51:LEU:HB2	1.60	0.82
50:BS:42:ASP:C	50:BS:44:LYS:H	1.85	0.82
51:BT:80:SER:CB	51:BT:81:PRO:HD3	2.08	0.82
1:AA:1383:C:H2'	1:AA:1384:C:C6	2.14	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:139:GLN:HE21	3:AC:143:GLU:CD	1.87	0.82
12:AL:89:ARG:HD3	12:AL:90:VAL:N	1.95	0.82
24:AY:10:VAL:HG11	24:AY:291:ALA:HB1	1.61	0.82
24:AY:104:THR:O	24:AY:105:ALA:HB2	1.77	0.82
24:AY:513:LEU:HB3	24:AY:517:ARG:HE	1.44	0.82
28:B3:43:ILE:O	28:B3:47:VAL:HG23	1.78	0.82
35:BA:210:C:H2'	35:BA:211:A:C8	2.14	0.82
35:BA:814:C:OP1	53:BV:84:LYS:N	2.12	0.82
35:BA:996:A:H4'	52:BU:92:ARG:NE	1.94	0.82
35:BA:1854:A:H62	35:BA:1888:G:H8	1.24	0.82
35:BA:2159:G:H2'	35:BA:2160:G:C5'	2.09	0.82
35:BA:2457:U:O2'	35:BA:2458:G:H5'	1.79	0.82
40:BF:81:PRO:HA	40:BF:87:GLY:O	1.79	0.82
45:BN:58:ASP:C	45:BN:60:ILE:H	1.88	0.82
48:BQ:133:ARG:CG	48:BQ:134:ARG:H	1.91	0.82
1:AA:741:G:H2'	1:AA:742:G:H8	1.44	0.82
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.61	0.82
13:AM:75:ALA:O	13:AM:79:LYS:HG3	1.78	0.82
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.79	0.82
24:AY:109:CYS:HB2	24:AY:137:ILE:HG21	1.60	0.82
24:AY:138:LEU:HB3	24:AY:255:PHE:HE1	1.44	0.82
24:AY:309:PRO:HG3	24:AY:313:ASP:OD2	1.79	0.82
31:B6:32:ASN:CG	31:B6:33:LYS:H	1.88	0.82
35:BA:2052:G:H4'	39:BE:143:ASN:O	1.78	0.82
35:BA:2584:U:O2'	35:BA:2585:U:H5'	1.79	0.82
38:BD:14:ARG:HH11	38:BD:14:ARG:HG2	1.42	0.82
48:BQ:55:VAL:HA	48:BQ:58:PHE:CE1	2.13	0.82
48:BQ:134:ARG:NH1	57:BZ:122:ARG:NH2	2.25	0.82
1:AA:80:G:H3'	1:AA:81:U:H5'	1.62	0.82
1:AA:1495:U:H2'	1:AA:1496:C:H5'	1.58	0.82
25:B0:37:LEU:HD21	25:B0:60:PHE:CA	2.08	0.82
35:BA:1190:G:H2'	35:BA:1191:G:C8	2.15	0.82
35:BA:1827:C:H2'	35:BA:1828:G:O4'	1.80	0.82
35:BA:1977:A:H2'	35:BA:1978:A:O4'	1.78	0.82
35:BA:2439:A:C8	35:BA:2439:A:H5'	2.13	0.82
35:BA:2591:C:P	38:BD:239:ARG:HG3	2.19	0.82
37:BC:64:LEU:HD13	37:BC:175:VAL:O	1.79	0.82
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.03	0.82
52:BU:91:ASP:OD1	52:BU:96:ALA:HB2	1.80	0.82
56:BY:13:VAL:HG23	56:BY:74:PRO:HA	1.60	0.82
1:AA:92:C:H2'	1:AA:93:G:H8	1.45	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:668:G:O2'	15:AO:46:HIS:HB3	1.79	0.82
1:AA:1320:C:H5'	1:AA:1320:C:H6	1.44	0.82
1:AA:1321:C:H5'	1:AA:1322:C:C5'	2.10	0.82
1:AA:1408:A:H2	35:BA:1913:A:H62	1.28	0.82
2:AB:220:ASP:CA	2:AB:223:ILE:HD12	2.09	0.82
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.61	0.82
13:AM:13:LYS:HA	13:AM:44:ARG:NH1	1.92	0.82
15:AO:3:ILE:HG13	15:AO:8:LYS:HE2	1.60	0.82
16:AP:20:VAL:HA	16:AP:36:ILE:HG12	1.60	0.82
35:BA:244:A:H5'	35:BA:245:G:OP2	1.77	0.82
35:BA:847:U:H2'	35:BA:848:G:H5''	1.61	0.82
35:BA:912:C:O2'	35:BA:913:U:H5'	1.77	0.82
35:BA:1187:G:H5''	53:BV:81:TYR:CE1	2.15	0.82
35:BA:1912:A:C5'	35:BA:1918:A:N6	2.41	0.82
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.15	0.82
38:BD:158:ALA:HB3	38:BD:161:THR:OG1	1.79	0.82
42:BH:94:TYR:HB3	42:BH:107:VAL:HG12	1.59	0.82
1:AA:401:C:H2'	1:AA:402:G:C8	2.13	0.82
16:AP:73:LEU:HD23	16:AP:76:GLN:NE2	1.93	0.82
26:B1:76:ARG:HA	35:BA:271(Q):G:H4'	1.62	0.82
35:BA:629:G:H1'	35:BA:639:U:H1'	1.61	0.82
35:BA:833:U:H5''	47:BP:48:PRO:CB	2.09	0.82
38:BD:60:ARG:CD	38:BD:86:PRO:HB2	2.08	0.82
45:BN:91:LEU:CA	45:BN:95:PRO:HB3	2.10	0.82
1:AA:1204:A:H2'	1:AA:1205:U:H6	1.45	0.82
2:AB:162:ILE:HG12	2:AB:163:PHE:N	1.94	0.82
5:AE:54:ALA:O	5:AE:58:ALA:HB2	1.80	0.82
24:AY:155:LEU:HB3	24:AY:166:CYS:SG	2.19	0.82
24:AY:189:GLU:O	24:AY:189:GLU:CG	2.27	0.82
24:AY:282:ARG:HD3	24:AY:319:ARG:HH22	1.45	0.82
33:B8:33:ASN:HA	33:B8:36:LYS:HD3	1.62	0.82
35:BA:873:G:O2'	35:BA:874:G:H5'	1.80	0.82
35:BA:1024:G:H3'	35:BA:1025:G:C5'	2.08	0.82
35:BA:1457:A:O2'	35:BA:1458:C:H5'	1.80	0.82
35:BA:1803:A:H2'	35:BA:1804:C:H6	1.45	0.82
35:BA:2118:U:OP1	35:BA:2148:G:H4'	1.79	0.82
35:BA:2443:C:O2'	35:BA:2444:G:H5'	1.79	0.82
36:BB:102:A:C3'	36:BB:103:G:H8	1.92	0.82
40:BF:179:GLU:HG3	40:BF:201:VAL:CG2	2.09	0.82
48:BQ:10:ARG:HB2	48:BQ:10:ARG:NH1	1.94	0.82
52:BU:92:ARG:HD2	53:BV:11:GLN:HG3	1.60	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:163:C:H2'	1:AA:164:U:C6	2.14	0.82
1:AA:1498:U:C4	23:AX:17:U:H4'	2.14	0.82
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.37	0.82
5:AE:32:VAL:O	5:AE:43:LEU:HD12	1.79	0.82
9:AI:114:TYR:HE2	10:AJ:59:SER:HA	1.45	0.82
24:AY:484:GLU:O	24:AY:488:LYS:HB2	1.80	0.82
25:B0:52:GLY:HA3	25:B0:60:PHE:CE1	2.14	0.82
35:BA:473:G:H5''	35:BA:508:G:H22	1.41	0.82
35:BA:659:C:H2'	35:BA:660:G:H8	1.44	0.82
35:BA:730:C:H2'	35:BA:731:C:C6	2.13	0.82
35:BA:1327:C:H2'	35:BA:1328:G:O4'	1.80	0.82
35:BA:1805:U:H5'	38:BD:250:TRP:CE3	2.14	0.82
35:BA:1819:A:H5''	38:BD:158:ALA:HB2	1.60	0.82
35:BA:1998:G:H4'	35:BA:2724:C:H4'	1.60	0.82
38:BD:243:GLY:O	38:BD:244:ARG:HB3	1.79	0.82
39:BE:49:LEU:O	39:BE:78:LEU:HB2	1.80	0.82
39:BE:77:ILE:HG22	39:BE:78:LEU:N	1.94	0.82
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.80	0.82
51:BT:55:ASN:N	51:BT:59:THR:HG22	1.94	0.82
2:AB:18:GLY:H	2:AB:42:ILE:CG2	1.92	0.82
5:AE:98:THR:HG21	5:AE:119:LEU:HD21	1.61	0.82
35:BA:740:U:H2'	35:BA:741:G:C8	2.14	0.82
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.15	0.82
36:BB:115:G:H2'	36:BB:116:G:H8	1.44	0.82
39:BE:63:LEU:O	39:BE:63:LEU:HD23	1.79	0.82
51:BT:22:PHE:HE2	51:BT:85:LYS:NZ	1.77	0.82
52:BU:48:ALA:O	52:BU:52:ARG:HG3	1.78	0.82
53:BV:75:PHE:CZ	53:BV:77:ALA:HA	2.15	0.82
1:AA:738:C:H2'	1:AA:739:C:H6	1.45	0.82
33:B8:12:LYS:HD3	47:BP:68:GLN:HG3	1.62	0.82
35:BA:572:A:H2'	35:BA:573:G:O4'	1.80	0.82
35:BA:1839:G:C8	35:BA:1927:A:H1'	2.15	0.82
35:BA:1924:C:H2'	35:BA:1924:C:P	2.19	0.82
35:BA:2391:G:C6	35:BA:2427:C:H1'	2.14	0.82
35:BA:2684:U:C1'	46:BO:70:LYS:HD2	2.09	0.82
49:BR:55:ALA:HB2	49:BR:79:LEU:HD11	1.61	0.82
3:AC:30:ARG:HD3	14:AN:35:ARG:O	1.79	0.81
24:AY:411:GLN:OE1	24:AY:414:LYS:HD2	1.80	0.81
25:B0:43:THR:HG21	35:BA:2332:U:H5'	1.62	0.81
27:B2:61:LEU:O	27:B2:64:LEU:HB3	1.80	0.81
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.43	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1778:U:H2'	35:BA:1784:A:N6	1.95	0.81
35:BA:1912:A:H5''	35:BA:1918:A:H61	1.42	0.81
35:BA:2575:C:H5''	35:BA:2576:G:OP2	1.80	0.81
36:BB:75:G:H2'	57:BZ:85:HIS:CE1	2.15	0.81
38:BD:2:ALA:O	38:BD:3:VAL:HG23	1.79	0.81
52:BU:78:THR:O	52:BU:81:HIS:HB3	1.79	0.81
52:BU:112:ARG:NH1	53:BV:46:VAL:HG11	1.95	0.81
1:AA:1346:A:C5'	9:AI:120:ARG:HH12	1.94	0.81
2:AB:204:ASN:HD22	2:AB:204:ASN:C	1.89	0.81
4:AD:10:ARG:O	4:AD:13:ARG:HB2	1.79	0.81
8:AH:82:HIS:CD2	8:AH:138:TRP:HE1	1.97	0.81
19:AS:46:GLY:H	19:AS:62:ILE:CG2	1.92	0.81
24:AY:105:ALA:CB	24:AY:319:ARG:HD3	2.09	0.81
33:B8:45:GLY:O	33:B8:46:ARG:HB2	1.79	0.81
35:BA:94(A):G:H2'	35:BA:95:G:C5'	2.10	0.81
35:BA:673:C:H5'	35:BA:673:C:H6	1.45	0.81
35:BA:1958:C:O2'	35:BA:1959:G:H5'	1.80	0.81
37:BC:137:LEU:HD22	37:BC:138:PRO:HD2	1.61	0.81
37:BC:175:VAL:HG11	37:BC:189:ILE:HG13	1.62	0.81
1:AA:1087:G:N2	1:AA:1099:G:HI1'	1.94	0.81
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.15	0.81
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.11	0.81
3:AC:123:GLN:HB3	3:AC:128:PHE:HD2	1.44	0.81
14:AN:13:THR:N	14:AN:14:PRO:CD	2.42	0.81
15:AO:25:THR:OG1	15:AO:70:LEU:HD21	1.79	0.81
24:AY:76:GLN:HE21	24:AY:85:ASN:CG	1.88	0.81
24:AY:296:PHE:CD1	24:AY:331:LEU:CD1	2.63	0.81
28:B3:8:LEU:HD22	28:B3:32:GLN:H	1.44	0.81
31:B6:26:ASN:HD22	31:B6:32:ASN:HD21	1.26	0.81
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.11	0.81
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.15	0.81
35:BA:1912:A:H5'	35:BA:1918:A:N6	1.95	0.81
35:BA:2057:A:H2'	35:BA:2058:A:C8	2.15	0.81
35:BA:2184:G:H2'	35:BA:2185:C:C1'	2.10	0.81
35:BA:2413:G:H21	47:BP:70:GLN:HE22	1.28	0.81
35:BA:2459:A:N6	35:BA:2493:U:H3	1.78	0.81
35:BA:2489:G:H8	35:BA:2489:G:O5'	1.62	0.81
35:BA:2868:A:H2'	35:BA:2869:G:C8	2.15	0.81
37:BC:175:VAL:HG13	37:BC:188:ASN:C	2.06	0.81
38:BD:71:ASP:HB3	38:BD:103:ARG:HH12	1.45	0.81
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.14	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:24:LEU:O	40:BF:115:ALA:HB1	1.79	0.81
45:BN:44:PRO:O	45:BN:45:ASN:HB3	1.80	0.81
46:BO:88:ASN:ND2	46:BO:92:GLU:HB3	1.95	0.81
49:BR:79:LEU:O	49:BR:79:LEU:HD22	1.80	0.81
52:BU:80:ILE:O	52:BU:84:LYS:HB2	1.80	0.81
55:BX:24:GLY:O	55:BX:82:GLN:HA	1.79	0.81
55:BX:28:PHE:CZ	55:BX:81:VAL:HG21	2.15	0.81
1:AA:1417:G:H2'	1:AA:1482:G:H22	1.45	0.81
2:AB:42:ILE:HD12	2:AB:203:GLY:CA	2.09	0.81
2:AB:84:GLU:OE1	2:AB:216:SER:HA	1.80	0.81
3:AC:30:ARG:HB2	14:AN:36:PHE:O	1.81	0.81
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.44	0.81
13:AM:56:LEU:HD13	13:AM:60:VAL:HG21	1.62	0.81
15:AO:65:ARG:HH11	15:AO:65:ARG:HB3	1.46	0.81
24:AY:446:PHE:O	24:AY:450:VAL:HG23	1.81	0.81
35:BA:908:C:O2'	35:BA:909:A:H5'	1.80	0.81
35:BA:1770:G:O2'	35:BA:1771:C:H5'	1.79	0.81
35:BA:2343:C:H2'	35:BA:2344:U:C6	2.15	0.81
35:BA:2682:U:O2	39:BE:22:PRO:HB3	1.78	0.81
1:AA:390:C:H2'	1:AA:391:G:C8	2.16	0.81
1:AA:882:C:N4	12:AL:5:PRO:HB3	1.96	0.81
1:AA:1283:G:O2'	1:AA:1284:C:H6	1.64	0.81
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.80	0.81
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HD2	2.15	0.81
11:AK:30:VAL:CG2	11:AK:68:ALA:HB2	2.11	0.81
15:AO:58:MET:SD	15:AO:58:MET:N	2.54	0.81
22:AV:5:G:H2'	22:AV:6:G:H8	1.45	0.81
24:AY:183:TYR:HE2	24:AY:189:GLU:CA	1.93	0.81
24:AY:511:LEU:O	24:AY:515:GLN:HG2	1.81	0.81
35:BA:608:A:H2'	35:BA:609:A:C8	2.16	0.81
35:BA:1789:A:OP1	38:BD:222:ARG:HG2	1.80	0.81
35:BA:2484:G:H1'	48:BQ:124:LYS:HD2	1.62	0.81
38:BD:263:ARG:HH11	38:BD:263:ARG:CG	1.93	0.81
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.06	0.81
53:BV:39:LEU:O	53:BV:40:LEU:HB2	1.80	0.81
24:AY:138:LEU:HD22	24:AY:275:TRP:CE3	2.14	0.81
24:AY:402:ARG:O	24:AY:461:ALA:HB1	1.79	0.81
35:BA:300:A:H2'	35:BA:334:C:O2'	1.80	0.81
35:BA:976:C:H42	35:BA:987:G:H1	1.27	0.81
35:BA:1428:C:N4	35:BA:1570:A:OP2	2.13	0.81
35:BA:1917:U:H2'	35:BA:1918:A:H5'	1.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:201:HIS:O	38:BD:204:ILE:HG22	1.79	0.81
38:BD:229:VAL:HG13	38:BD:230:ASP:N	1.95	0.81
41:BG:56:ALA:HA	41:BG:153:ARG:HH21	1.42	0.81
45:BN:120:LEU:HD11	45:BN:122:VAL:HG23	1.62	0.81
48:BQ:35:VAL:CG1	48:BQ:130:LYS:HB3	2.09	0.81
49:BR:97:VAL:HA	49:BR:113:LEU:O	1.80	0.81
50:BS:89:ARG:CB	50:BS:92:TYR:HB3	2.11	0.81
1:AA:950:U:H2'	1:AA:951:G:C8	2.15	0.81
4:AD:147:ALA:HB2	4:AD:182:LYS:HG2	1.63	0.81
5:AE:76:ILE:HD11	5:AE:78:HIS:O	1.80	0.81
12:AL:89:ARG:HH11	12:AL:91:LYS:HA	1.45	0.81
15:AO:29:VAL:CG2	15:AO:67:LEU:HD21	2.10	0.81
17:AQ:10:VAL:CG1	17:AQ:53:LEU:HA	2.11	0.81
21:AU:10:ARG:CA	21:AU:13:ILE:HD12	2.11	0.81
24:AY:331:LEU:HD22	24:AY:379:PHE:HD2	0.65	0.81
28:B3:45:GLY:HA2	28:B3:48:GLU:HG3	1.60	0.81
35:BA:1938:A:O2'	35:BA:1939:U:H5'	1.80	0.81
38:BD:35:LYS:N	38:BD:36:PRO:HD2	1.95	0.81
39:BE:114:ALA:CB	39:BE:160:TYR:HB3	2.11	0.81
41:BG:42:GLY:HA2	41:BG:90:LEU:N	1.95	0.81
42:BH:27:LYS:HG2	42:BH:32:GLU:HG2	1.62	0.81
1:AA:920:U:H1'	1:AA:1080:A:C2	2.16	0.81
3:AC:86:VAL:HG23	3:AC:87:LEU:HD23	1.61	0.81
21:AU:5:ASP:C	21:AU:7:ARG:H	1.88	0.81
31:B6:11:LEU:HD21	31:B6:51:GLU:HG2	1.62	0.81
35:BA:67:U:H2'	35:BA:68:G:C8	2.16	0.81
35:BA:565:C:OP2	53:BV:78:LYS:HG3	1.80	0.81
35:BA:589:C:H2'	35:BA:590:A:H8	1.46	0.81
35:BA:2115:G:H22	35:BA:2119:A:P	2.04	0.81
36:BB:75:G:O2'	57:BZ:10:ARG:NH2	2.14	0.81
38:BD:16:MET:HB3	38:BD:207:GLY:CA	2.11	0.81
39:BE:47:VAL:HG21	39:BE:86:PRO:HD2	1.61	0.81
52:BU:92:ARG:HB2	53:BV:11:GLN:CD	2.05	0.81
6:AF:87:ARG:HH11	6:AF:87:ARG:CG	1.94	0.81
13:AM:91:ARG:H	13:AM:94:ARG:HB2	1.44	0.81
24:AY:103:LEU:H	24:AY:103:LEU:HD12	1.45	0.81
24:AY:513:LEU:HD13	24:AY:517:ARG:HH21	1.46	0.81
30:B5:13:LYS:CA	30:B5:16:ARG:HB3	2.11	0.81
31:B6:53:LYS:O	31:B6:54:ILE:HG22	1.80	0.81
35:BA:1291:C:C2'	35:BA:1292:U:H5'	2.10	0.81
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.44	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:30:GLU:HA	38:BD:83:GLU:OE1	1.80	0.81
57:BZ:57:ILE:HD13	57:BZ:70:LEU:HA	1.63	0.81
1:AA:598:U:H2'	1:AA:599:C:H6	1.46	0.81
2:AB:178:ARG:HH11	2:AB:178:ARG:HG3	1.43	0.81
14:AN:3:ARG:O	14:AN:7:ILE:HG23	1.81	0.81
24:AY:6:TYR:HA	24:AY:360:TYR:HE2	1.45	0.81
24:AY:349:MET:HE3	24:AY:358:GLU:HG2	1.61	0.81
35:BA:628:G:H2'	35:BA:629:G:C5'	2.11	0.81
35:BA:1121:C:H2'	35:BA:1122:G:C8	2.13	0.81
35:BA:2184:G:H2'	35:BA:2185:C:H1'	1.61	0.81
35:BA:2199:A:H5''	35:BA:2200:C:C5	2.16	0.81
35:BA:2472:G:H21	35:BA:2478:A:H62	1.29	0.81
37:BC:3:HIS:HB3	37:BC:7:TYR:HD2	1.45	0.81
37:BC:47:LEU:HD21	37:BC:171:ILE:HD12	1.63	0.81
38:BD:4:LYS:HE3	38:BD:20:ASP:OD1	1.80	0.81
39:BE:3:GLY:O	39:BE:4:ILE:HB	1.80	0.81
42:BH:12:PRO:HD2	42:BH:15:VAL:CG2	2.11	0.81
52:BU:15:LYS:O	52:BU:18:LEU:HB2	1.80	0.81
1:AA:59:A:O2'	1:AA:388:G:H3'	1.81	0.80
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.16	0.80
7:AG:24:THR:HG22	7:AG:27:ILE:HD12	1.63	0.80
11:AK:57:THR:HG23	11:AK:60:ALA:H	1.44	0.80
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.45	0.80
13:AM:90:LEU:O	13:AM:91:ARG:HB2	1.80	0.80
22:AV:26:G:N2	22:AV:44:A:H61	1.78	0.80
24:AY:90:PRO:HD2	24:AY:99:THR:HG21	1.63	0.80
24:AY:403:LEU:HD22	24:AY:403:LEU:N	1.96	0.80
27:B2:46:GLN:HB3	27:B2:48:HIS:CE1	2.15	0.80
35:BA:1084:A:OP1	43:BJ:55:UNK:HA	1.81	0.80
35:BA:1255:U:O5'	35:BA:1256:G:H5''	1.80	0.80
35:BA:1394:U:H4'	35:BA:1603:A:H4'	1.62	0.80
35:BA:2393:A:C4	35:BA:2394:C:C6	2.69	0.80
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.46	0.80
41:BG:140:ILE:HD12	41:BG:141:PHE:N	1.97	0.80
47:BP:122:PRO:HB3	47:BP:141:ALA:HB3	1.62	0.80
48:BQ:134:ARG:HH11	57:BZ:122:ARG:HH21	1.27	0.80
52:BU:115:ALA:C	52:BU:117:GLN:H	1.88	0.80
1:AA:1398:A:H61	5:AE:22:GLY:H	1.29	0.80
19:AS:16:LEU:H	19:AS:16:LEU:HD12	1.45	0.80
35:BA:30:G:H2'	35:BA:31:C:C6	2.17	0.80
35:BA:845:G:H8	35:BA:845:G:OP2	1.64	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1930:G:H22	35:BA:1968:G:H2'	1.41	0.80
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.16	0.80
36:BB:68:C:H2'	36:BB:69:G:H8	1.46	0.80
38:BD:124:PRO:HB2	38:BD:129:ASN:ND2	1.96	0.80
41:BG:113:ARG:HA	41:BG:113:ARG:HE	1.43	0.80
42:BH:35:VAL:HG12	42:BH:72:ILE:HD11	1.62	0.80
45:BN:36:GLY:O	45:BN:42:TRP:HB2	1.80	0.80
49:BR:99:LYS:H	49:BR:99:LYS:HD2	1.46	0.80
1:AA:1407:C:H2'	1:AA:1408:A:H5'	1.62	0.80
2:AB:54:THR:HG21	2:AB:201:ILE:CD1	2.10	0.80
3:AC:142:MET:C	3:AC:144:SER:H	1.88	0.80
8:AH:28:ALA:HB3	8:AH:57:PRO:HB2	1.63	0.80
12:AL:126:LYS:HB2	24:AY:487:ARG:HE	1.44	0.80
35:BA:2777:G:H5''	35:BA:2778:A:H5'	1.62	0.80
38:BD:176:ARG:HD2	38:BD:182:LEU:HD11	1.62	0.80
56:BY:86:ARG:NH2	56:BY:95:LYS:HZ3	1.78	0.80
57:BZ:166:SER:CB	57:BZ:168:GLU:HB3	2.12	0.80
1:AA:607:A:H2'	1:AA:608:A:H8	1.46	0.80
3:AC:131:ARG:HA	3:AC:134:ILE:HD12	1.63	0.80
35:BA:57:C:O2'	35:BA:58:G:H5'	1.79	0.80
35:BA:1496:A:H2'	35:BA:1498:C:H41	1.46	0.80
35:BA:2052:G:OP1	39:BE:141:ILE:HG12	1.82	0.80
35:BA:2303:G:H1	35:BA:2313:C:H42	1.29	0.80
37:BC:107:TRP:HZ3	37:BC:131:LEU:HD21	1.43	0.80
42:BH:91:GLY:HA3	42:BH:94:TYR:HD2	1.46	0.80
52:BU:36:ARG:HH11	52:BU:36:ARG:CB	1.94	0.80
1:AA:775:G:O2'	1:AA:776:G:H5'	1.81	0.80
1:AA:969:A:O2'	1:AA:970:C:H5'	1.82	0.80
5:AE:79:GLU:HB3	5:AE:92:LYS:HG3	1.62	0.80
17:AQ:92:ARG:HA	17:AQ:95:TYR:CD2	2.16	0.80
28:B3:6:VAL:HG12	28:B3:56:VAL:HA	1.64	0.80
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.63	0.80
38:BD:127:VAL:HA	38:BD:193:VAL:HG22	1.62	0.80
47:BP:122:PRO:HB3	47:BP:141:ALA:CB	2.12	0.80
1:AA:714:G:H2'	1:AA:715:A:C8	2.16	0.80
4:AD:60:GLU:HG2	4:AD:202:LEU:HD12	1.63	0.80
22:AV:17:C:H3'	22:AV:17(A):U:H5'	1.62	0.80
27:B2:36:ARG:HA	27:B2:39:ALA:HB3	1.63	0.80
34:B9:29:ASN:HD21	34:B9:32:HIS:CE1	1.98	0.80
35:BA:143:G:H4'	55:BX:35:THR:HG21	1.63	0.80
35:BA:832:G:OP1	47:BP:40:SER:HB3	1.82	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:15:GLU:HB3	53:BV:16:PRO:HD2	1.64	0.80
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	1.81	0.80
3:AC:155:GLY:HA3	3:AC:196:LEU:HD13	1.64	0.80
7:AG:66:VAL:O	7:AG:69:VAL:HG12	1.81	0.80
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.47	0.80
16:AP:60:LEU:HD11	16:AP:79:VAL:CG1	2.12	0.80
24:AY:249:GLY:O	24:AY:250:GLU:HG2	1.82	0.80
28:B3:59:VAL:HG12	28:B3:60:GLU:N	1.96	0.80
33:B8:25:MET:CG	47:BP:64:LYS:HB2	2.12	0.80
35:BA:705:A:N1	35:BA:727:A:H1'	1.97	0.80
38:BD:143:HIS:HB2	38:BD:196:VAL:HG23	1.64	0.80
50:BS:67:ARG:NH2	50:BS:100:ALA:HB3	1.97	0.80
53:BV:4:ILE:HD12	53:BV:39:LEU:O	1.81	0.80
56:BY:12:THR:HB	56:BY:75:ILE:CG2	2.10	0.80
1:AA:174:C:H2'	1:AA:175:C:C6	2.17	0.80
1:AA:613:C:H2'	1:AA:614:A:H8	1.46	0.80
3:AC:19:GLU:HG2	3:AC:54:ARG:NE	1.97	0.80
8:AH:87:SER:OG	8:AH:92:ARG:HA	1.81	0.80
10:AJ:8:LEU:HA	10:AJ:95:GLU:O	1.81	0.80
19:AS:62:ILE:HA	19:AS:66:MET:HE2	1.64	0.80
35:BA:201:C:O2'	35:BA:202:U:H5'	1.81	0.80
35:BA:811:U:O3'	35:BA:1251:C:H5'	1.81	0.80
35:BA:1058:G:H2'	35:BA:1059:G:H5''	1.64	0.80
37:BC:14:VAL:HG11	37:BC:221:SER:O	1.82	0.80
40:BF:28:ILE:HG22	40:BF:116:ASP:HB2	1.64	0.80
1:AA:759:A:H1'	12:AL:12:ARG:NH2	1.97	0.80
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.47	0.80
3:AC:155:GLY:CA	3:AC:196:LEU:HD13	2.11	0.80
9:AI:63:ILE:HG21	9:AI:77:ILE:HD11	1.62	0.80
15:AO:68:ARG:HG3	15:AO:72:ARG:HG3	1.61	0.80
22:AV:5:G:H2'	22:AV:6:G:C8	2.17	0.80
24:AY:76:GLN:HE21	24:AY:85:ASN:HD21	1.29	0.80
24:AY:155:LEU:HD12	24:AY:155:LEU:H	1.47	0.80
26:B1:50:ARG:HG2	26:B1:59:THR:CG2	2.12	0.80
32:B7:30:VAL:HG22	32:B7:33:ARG:NH2	1.97	0.80
35:BA:239:U:H1'	35:BA:259:G:H22	1.47	0.80
35:BA:1628:G:H2'	35:BA:1629:U:C6	2.16	0.80
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.12	0.80
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.82	0.80
39:BE:7:VAL:HG21	51:BT:1:MET:SD	2.22	0.80
40:BF:66:PRO:HB2	40:BF:70:THR:HG23	1.63	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:154:VAL:CG1	40:BF:193:VAL:HG23	2.11	0.80
42:BH:151:ILE:HD12	42:BH:151:ILE:N	1.96	0.80
48:BQ:63:LYS:HG3	57:BZ:175:VAL:CG2	2.12	0.80
49:BR:63:ARG:HB2	49:BR:63:ARG:HH11	1.47	0.80
51:BT:65:LYS:HE3	51:BT:66:VAL:N	1.95	0.80
52:BU:69:CYS:O	52:BU:74:LEU:HD12	1.81	0.80
1:AA:576:G:OP2	1:AA:577:G:H5''	1.82	0.80
8:AH:119:LEU:HB3	8:AH:123:GLU:CB	2.11	0.80
21:AU:18:TYR:CD2	21:AU:24:ARG:HA	2.16	0.80
24:AY:108:CYS:HB2	24:AY:136:PRO:HG2	1.64	0.80
24:AY:135:THR:HG22	24:AY:136:PRO:HD2	1.60	0.80
24:AY:183:TYR:CE2	24:AY:189:GLU:C	2.60	0.80
24:AY:246:PHE:HA	24:AY:251:ILE:HG13	1.64	0.80
26:B1:3:LYS:HG3	35:BA:1365:A:OP2	1.82	0.80
26:B1:14:VAL:CG2	35:BA:188:G:H5'	2.12	0.80
31:B6:19:ARG:HD3	35:BA:2400:G:H4'	1.64	0.80
31:B6:41:PRO:O	31:B6:45:LYS:HB3	1.82	0.80
35:BA:479:A:O2'	35:BA:481:G:H5'	1.81	0.80
35:BA:533:G:H2'	35:BA:534:U:C6	2.17	0.80
35:BA:916:G:O2'	35:BA:917:A:H5''	1.82	0.80
35:BA:1625:C:O2'	35:BA:1626:G:H5'	1.82	0.80
35:BA:1661:G:H2'	35:BA:1662:C:H6	1.46	0.80
35:BA:1825:A:H2'	35:BA:1826:G:H8	1.47	0.80
35:BA:2459:A:H61	35:BA:2493:U:H3	1.29	0.80
35:BA:2628:C:C1'	35:BA:2781:A:H2'	2.12	0.80
38:BD:182:LEU:N	38:BD:272:ALA:HB2	1.95	0.80
38:BD:248:SER:OG	38:BD:252:TRP:CD2	2.34	0.80
39:BE:9:VAL:CG1	39:BE:25:VAL:HB	2.12	0.80
48:BQ:3:MET:HB2	48:BQ:4:PRO:HD2	1.63	0.80
52:BU:74:LEU:HD13	52:BU:75:ASN:O	1.82	0.80
55:BX:18:TYR:O	55:BX:20:GLY:N	2.16	0.80
57:BZ:150:LEU:CG	57:BZ:171:ILE:HD11	2.04	0.80
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.00	0.79
1:AA:275:G:H2'	1:AA:276:G:H8	1.46	0.79
1:AA:1481:U:H2'	1:AA:1482:G:H8	1.47	0.79
8:AH:46:LYS:HE2	8:AH:64:LYS:HA	1.64	0.79
18:AR:83:GLU:C	18:AR:84:LYS:HZ3	1.89	0.79
19:AS:16:LEU:HD12	19:AS:16:LEU:N	1.97	0.79
24:AY:342:ILE:CD1	24:AY:345:ALA:HB2	2.11	0.79
24:AY:462:VAL:CG1	24:AY:463:TYR:H	1.95	0.79
26:B1:11:ARG:HB3	26:B1:12:PRO:CD	2.06	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:53:PRO:O	33:B8:57:ARG:HG3	1.82	0.79
35:BA:606:U:H4'	35:BA:658:C:H4'	1.64	0.79
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.11	0.79
40:BF:159:GLY:CA	40:BF:178:PRO:HD3	2.12	0.79
45:BN:21:LYS:HD3	45:BN:22:THR:H	1.47	0.79
1:AA:838:G:H2'	1:AA:839:U:H5''	1.61	0.79
1:AA:1452:C:H5'	1:AA:1456:G:C2	2.17	0.79
4:AD:26:CYS:HA	4:AD:31:CYS:CA	2.10	0.79
24:AY:303:ILE:HG13	24:AY:375:ILE:HD11	1.62	0.79
24:AY:404:LYS:O	24:AY:404:LYS:HD3	1.82	0.79
24:AY:440:ALA:HB2	24:AY:446:PHE:CZ	2.16	0.79
34:B9:26:ILE:HG22	34:B9:27:CYS:H	1.47	0.79
35:BA:1912:A:H5'	35:BA:1918:A:H61	1.46	0.79
37:BC:49:ILE:HG22	37:BC:204:ALA:HB2	1.63	0.79
38:BD:172:TYR:CE1	38:BD:186:HIS:HA	2.18	0.79
38:BD:223:GLY:HA3	38:BD:231:HIS:CD2	2.17	0.79
1:AA:1223:C:P	19:AS:78:ARG:HH21	2.04	0.79
1:AA:1423:G:H5''	46:BO:49:ARG:NH2	1.97	0.79
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.44	0.79
13:AM:49:THR:O	13:AM:53:VAL:HG23	1.81	0.79
15:AO:4:THR:HB	15:AO:7:GLU:HB3	0.90	0.79
22:AV:50:U:O2	22:AV:64:G:N2	2.13	0.79
24:AY:281:PRO:O	24:AY:282:ARG:HD2	1.82	0.79
24:AY:449:VAL:CG2	24:AY:463:TYR:OH	2.30	0.79
32:B7:16:HIS:HA	32:B7:21:ARG:HH12	1.46	0.79
35:BA:1352:U:O2'	35:BA:1353:A:H5'	1.81	0.79
35:BA:1904:G:H1'	35:BA:1927:A:H61	1.46	0.79
35:BA:2361:A:H2'	35:BA:2362:G:H8	1.46	0.79
36:BB:31:C:H42	36:BB:51:G:H1	1.30	0.79
38:BD:43:ARG:HH11	38:BD:49:ILE:HD11	1.47	0.79
50:BS:30:ARG:HH22	50:BS:62:LYS:HB3	1.47	0.79
50:BS:56:LEU:O	50:BS:56:LEU:HD23	1.81	0.79
2:AB:18:GLY:N	2:AB:42:ILE:HG22	1.93	0.79
2:AB:115:LEU:CD1	2:AB:145:LEU:HD12	2.12	0.79
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.12	0.79
22:AV:25:C:H2'	22:AV:26:G:O4'	1.81	0.79
22:AV:69:C:O2'	22:AV:70:G:H5''	1.81	0.79
29:B4:9:LEU:HD13	29:B4:10:VAL:H	1.46	0.79
31:B6:9:LEU:HD22	31:B6:10:LEU:H	1.46	0.79
31:B6:36:LEU:HA	31:B6:49:HIS:O	1.82	0.79
35:BA:2102:U:H2'	35:BA:2103:C:O4'	1.83	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2137:C:H42	35:BA:2154:G:H22	1.28	0.79
35:BA:2772:C:H6	35:BA:2772:C:O5'	1.64	0.79
39:BE:174:ASP:HB3	39:BE:183:LEU:HD22	1.65	0.79
40:BF:159:GLY:HA2	40:BF:164:ARG:HH21	1.46	0.79
41:BG:64:THR:HG23	41:BG:65:GLY:H	1.47	0.79
48:BQ:18:LYS:HG2	48:BQ:19:GLY:H	1.45	0.79
1:AA:975:A:H8	1:AA:975:A:H5'	1.48	0.79
1:AA:1406:U:O2	1:AA:1518:A:H1'	1.80	0.79
1:AA:1493:A:N3	1:AA:1493:A:H3'	1.97	0.79
9:AI:46:ALA:HB2	9:AI:74:ILE:HG22	1.63	0.79
24:AY:138:LEU:HB3	24:AY:255:PHE:CE1	2.17	0.79
24:AY:146:ARG:HG3	24:AY:146:ARG:NH1	1.92	0.79
24:AY:255:PHE:CE1	24:AY:275:TRP:CZ3	2.68	0.79
25:B0:17:GLN:O	25:B0:19:LYS:HG3	1.82	0.79
25:B0:36:ILE:HD11	35:BA:2355:C:O4'	1.83	0.79
35:BA:193:U:O2'	35:BA:194:G:H5'	1.82	0.79
35:BA:654(J):A:H8	35:BA:654(L):G:H1'	1.47	0.79
35:BA:1010:A:H1'	35:BA:1153:C:H1'	1.64	0.79
35:BA:1170:G:H22	35:BA:1179:C:N4	1.79	0.79
35:BA:1498:C:H2'	35:BA:1499:C:C5'	2.13	0.79
35:BA:2801(A):A:H5'	35:BA:2802:G:H8	1.46	0.79
37:BC:6:ARG:NH1	37:BC:10:LEU:HD21	1.96	0.79
40:BF:163:VAL:O	40:BF:166:ALA:HB3	1.82	0.79
40:BF:167:ALA:CB	40:BF:173:VAL:HG11	2.05	0.79
25:B0:10:THR:HG22	25:B0:12:ASN:H	1.46	0.79
27:B2:41:ILE:HG13	27:B2:42:GLY:N	1.96	0.79
35:BA:1061:U:H4'	35:BA:1070:A:O4'	1.82	0.79
35:BA:1203:G:H3'	35:BA:1204:A:C5'	2.09	0.79
35:BA:1919:A:H3'	35:BA:1920:C:C5'	2.13	0.79
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.48	0.79
37:BC:40:THR:HG22	37:BC:41:VAL:H	1.47	0.79
1:AA:702:A:N6	35:BA:1846:G:H5''	1.97	0.79
24:AY:315:VAL:HG21	24:AY:346:LEU:CD1	2.12	0.79
24:AY:336:THR:O	24:AY:337:ALA:CB	2.31	0.79
24:AY:473:TRP:HH2	24:AY:500:ASN:CB	1.80	0.79
32:B7:38:GLY:O	35:BA:458:G:H2'	1.82	0.79
35:BA:1911:U:C2'	35:BA:1918:A:N1	2.43	0.79
37:BC:40:THR:HA	37:BC:177:LYS:HA	1.63	0.79
38:BD:24:ILE:CD1	38:BD:91:ARG:HB3	2.08	0.79
39:BE:51:PHE:HD1	39:BE:52:LEU:H	1.29	0.79
41:BG:133:LEU:HG	41:BG:157:ILE:HB	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:17:ASP:OD1	45:BN:56:ASN:HB3	1.82	0.79
47:BP:146:VAL:HG22	47:BP:147:LEU:H	1.47	0.79
48:BQ:1:MET:HE1	48:BQ:48:GLU:HB2	1.64	0.79
56:BY:101:LYS:HG2	56:BY:102:CYS:N	1.97	0.79
1:AA:1471:G:H2'	1:AA:1472:U:H6	1.46	0.79
2:AB:115:LEU:HB2	2:AB:145:LEU:CD1	2.13	0.79
7:AG:118:VAL:HG23	7:AG:119:ARG:N	1.96	0.79
8:AH:119:LEU:HB3	8:AH:123:GLU:HB2	1.65	0.79
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	1.63	0.79
14:AN:13:THR:N	14:AN:14:PRO:HD2	1.97	0.79
22:AV:5:G:H1	22:AV:68:C:H42	1.29	0.79
24:AY:453:LEU:HB3	24:AY:459:VAL:CG2	2.13	0.79
27:B2:25:VAL:CG1	27:B2:29:LYS:HE2	2.12	0.79
35:BA:1772:G:H21	35:BA:1774:C:H5''	1.47	0.79
35:BA:2605:U:H2'	35:BA:2606:C:H6	1.41	0.79
38:BD:94:LEU:HD22	38:BD:95:LEU:H	1.47	0.79
40:BF:154:VAL:HG11	40:BF:193:VAL:HG23	1.64	0.79
50:BS:83:LYS:HG2	50:BS:105:ALA:HB3	1.65	0.79
52:BU:25:TRP:O	52:BU:28:ARG:HB2	1.82	0.79
54:BW:75:TYR:O	54:BW:103:ILE:HG22	1.82	0.79
1:AA:436:C:H5''	4:AD:156:GLU:OE2	1.82	0.79
1:AA:834:C:H2'	1:AA:835:U:H6	1.46	0.79
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.12	0.79
1:AA:1126:U:H1'	1:AA:1280:A:C6	2.17	0.79
2:AB:88:ALA:O	2:AB:90:MET:HG2	1.82	0.79
2:AB:172:ILE:H	2:AB:172:ILE:CD1	1.95	0.79
9:AI:8:GLY:HA2	9:AI:79:LEU:CD1	2.09	0.79
10:AJ:13:HIS:HB3	10:AJ:68:HIS:CD2	2.18	0.79
12:AL:41:ARG:CZ	12:AL:41:ARG:HB2	2.13	0.79
24:AY:186:TYR:CZ	24:AY:241:PHE:HB3	2.17	0.79
25:B0:14:ARG:HD2	35:BA:2279:G:O6	1.83	0.79
33:B8:43:GLN:C	33:B8:44:LYS:HD2	2.07	0.79
35:BA:210:C:H2'	35:BA:211:A:H8	1.45	0.79
35:BA:497:A:H2'	35:BA:498:G:C8	2.18	0.79
35:BA:839:U:H2'	35:BA:840:C:C6	2.16	0.79
35:BA:1434:A:H2'	35:BA:1435:G:H8	1.47	0.79
35:BA:2498:C:C2'	35:BA:2499:C:H5''	2.13	0.79
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.17	0.79
37:BC:181:PRO:HB2	37:BC:182:PRO:HD2	1.65	0.79
38:BD:31:LYS:HG2	38:BD:33:LEU:HD23	1.65	0.79
38:BD:198:ASN:C	38:BD:198:ASN:HD22	1.89	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:88:ASP:CG	50:BS:89:ARG:H	1.86	0.79
57:BZ:57:ILE:H	57:BZ:57:ILE:HD12	1.48	0.79
1:AA:836:G:O2'	1:AA:837:G:H5'	1.82	0.79
2:AB:101:MET:HB2	2:AB:102:LEU:HD12	1.65	0.79
4:AD:152:SER:HB3	4:AD:155:LEU:HD12	1.63	0.79
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	1.97	0.79
24:AY:164:ILE:HG12	24:AY:252:THR:HG23	1.65	0.79
35:BA:818:G:H8	35:BA:818:G:O5'	1.64	0.79
35:BA:1190:G:H5'	47:BP:35:HIS:N	1.97	0.79
35:BA:1376:C:O2'	35:BA:1377:G:H5'	1.82	0.79
35:BA:1571:A:H2'	35:BA:1572:A:H8	1.48	0.79
35:BA:1773:A:H2'	35:BA:1774:C:H5'	1.64	0.79
35:BA:2066:C:H2'	35:BA:2067:G:C8	2.17	0.79
35:BA:2437:U:H2'	35:BA:2438:U:C6	2.18	0.79
40:BF:110:LEU:HA	40:BF:183:VAL:CG1	2.13	0.79
41:BG:115:ARG:HH22	41:BG:136:ARG:HB2	1.48	0.79
42:BH:98:LEU:HD11	42:BH:100:GLY:O	1.83	0.79
42:BH:132:ARG:O	42:BH:133:VAL:HG23	1.83	0.79
1:AA:67:C:O2	1:AA:171:A:H2	1.64	0.78
1:AA:777:A:H2'	1:AA:778:G:C8	2.18	0.78
1:AA:1442(A):G:N2	51:BT:121:ILE:HG12	1.97	0.78
1:AA:1494:G:C6	1:AA:1495:U:O4	2.36	0.78
2:AB:43:ASP:OD2	2:AB:46:LYS:HB2	1.82	0.78
17:AQ:46:ASP:OD2	17:AQ:51:TYR:HD2	1.65	0.78
24:AY:70:ILE:HG12	24:AY:95:PHE:CZ	2.18	0.78
24:AY:183:TYR:CE2	24:AY:189:GLU:CA	2.65	0.78
32:B7:7:PRO:HA	35:BA:686:G:H8	1.46	0.78
35:BA:1028:A:H2'	35:BA:1029:A:C8	2.18	0.78
35:BA:1414:G:H1	35:BA:1588:C:N4	1.80	0.78
35:BA:1843:C:H4'	38:BD:256:GLY:O	1.83	0.78
41:BG:76:SER:OG	41:BG:83:ARG:HB3	1.81	0.78
47:BP:16:ARG:NH1	47:BP:16:ARG:HB2	1.97	0.78
52:BU:31:SER:HB3	52:BU:34:LYS:CB	2.06	0.78
54:BW:70:TYR:O	54:BW:107:LEU:HB3	1.83	0.78
56:BY:8:LYS:HD2	56:BY:8:LYS:H	1.48	0.78
1:AA:618:C:H42	1:AA:623:C:H42	1.27	0.78
1:AA:877:C:H5''	8:AH:88:LYS:HD3	1.65	0.78
1:AA:1195:C:H2'	1:AA:1197:G:O4'	1.83	0.78
2:AB:180:LEU:O	2:AB:182:ILE:HG13	1.83	0.78
20:AT:83:ARG:O	20:AT:87:LYS:HB2	1.84	0.78
30:B5:13:LYS:C	30:B5:16:ARG:HB3	2.08	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2356:C:O2'	35:BA:2357:U:H5'	1.83	0.78
35:BA:2394:C:H5''	35:BA:2395:C:OP2	1.84	0.78
53:BV:49:THR:HB	53:BV:50:PRO:HD2	1.65	0.78
55:BX:12:VAL:HG12	55:BX:27:THR:C	2.07	0.78
57:BZ:18:LEU:O	57:BZ:21:ALA:HB3	1.83	0.78
22:AV:59:A:C2'	22:AV:60:U:H5'	2.12	0.78
35:BA:83:G:N2	35:BA:102:G:H2'	1.98	0.78
35:BA:271(X):G:O3'	35:BA:272(D):G:H4'	1.83	0.78
35:BA:672:C:H2'	35:BA:673:C:H5''	1.62	0.78
35:BA:1778:U:O4	35:BA:1784:A:H1'	1.83	0.78
35:BA:1911:U:H5''	35:BA:1912:A:OP2	1.82	0.78
35:BA:2870:C:H5''	49:BR:65:LEU:HD21	1.66	0.78
41:BG:102:PHE:C	41:BG:102:PHE:CD1	2.61	0.78
45:BN:13:TRP:O	45:BN:135:PRO:HD2	1.82	0.78
48:BQ:135:ASP:H	48:BQ:137:TYR:HD2	1.30	0.78
51:BT:20:PRO:HD2	51:BT:85:LYS:CB	2.10	0.78
52:BU:19:LYS:O	52:BU:21:ALA:N	2.15	0.78
1:AA:1489:G:H2'	1:AA:1490:C:H6	1.45	0.78
4:AD:175:SER:OG	4:AD:184:LYS:HB2	1.83	0.78
11:AK:28:THR:O	11:AK:44:SER:HB2	1.84	0.78
24:AY:106:VAL:HG22	24:AY:107:ASP:N	1.98	0.78
24:AY:374:GLN:HG2	24:AY:529:HIS:O	1.83	0.78
35:BA:997:G:O2'	35:BA:998:C:H5'	1.83	0.78
35:BA:1598:C:H5'	55:BX:36:LYS:CD	2.13	0.78
35:BA:2101:G:H2'	35:BA:2102:U:H5''	1.65	0.78
39:BE:87:GLU:O	39:BE:89:ASP:N	2.16	0.78
46:BO:23:ARG:HB3	46:BO:40:VAL:HG23	1.66	0.78
53:BV:75:PHE:HA	53:BV:81:TYR:O	1.83	0.78
1:AA:947:G:H8	1:AA:947:G:O5'	1.67	0.78
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.46	0.78
2:AB:127:ILE:CA	2:AB:135:GLN:HE22	1.96	0.78
15:AO:4:THR:O	15:AO:8:LYS:N	2.17	0.78
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	1.97	0.78
22:AV:1:C:O2'	22:AV:2:G:H5'	1.83	0.78
35:BA:601:C:H4'	40:BF:108:LYS:HZ1	1.48	0.78
35:BA:1655:A:O3'	39:BE:115:GLY:HA3	1.82	0.78
42:BH:103:LEU:HG	42:BH:105:LEU:HD13	1.64	0.78
54:BW:1:MET:HE3	54:BW:2:GLU:H	1.49	0.78
57:BZ:29:TYR:HB3	57:BZ:34:ASN:HA	1.65	0.78
1:AA:735:C:H2'	1:AA:736:C:C6	2.17	0.78
16:AP:45:THR:HG22	16:AP:47:ASP:HB3	1.64	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:27:THR:CG2	47:BP:62:LEU:HD22	2.04	0.78
35:BA:118:A:H5'	35:BA:119:A:C8	2.19	0.78
35:BA:1839:G:H1'	35:BA:1927:A:OP1	1.83	0.78
35:BA:1906:G:H2'	35:BA:1907:G:O4'	1.84	0.78
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.18	0.78
35:BA:2070:G:H2'	35:BA:2071:A:H8	1.46	0.78
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.18	0.78
40:BF:158:THR:HA	40:BF:198:ALA:HB2	1.66	0.78
47:BP:47:ASP:OD2	47:BP:49:ARG:HB2	1.83	0.78
52:BU:92:ARG:HD2	53:BV:11:GLN:CG	2.14	0.78
53:BV:96:ILE:HD13	53:BV:96:ILE:N	1.95	0.78
2:AB:12:GLU:O	2:AB:14:GLY:N	2.17	0.78
2:AB:82:ARG:O	2:AB:86:GLU:HG3	1.84	0.78
20:AT:58:LYS:O	20:AT:61:SER:HB3	1.84	0.78
22:AV:62:C:H2'	22:AV:63:G:H5''	1.62	0.78
24:AY:249:GLY:O	24:AY:250:GLU:CG	2.32	0.78
31:B6:18:ARG:HH11	31:B6:18:ARG:HG2	1.47	0.78
35:BA:575:A:H2'	35:BA:576:U:C6	2.18	0.78
35:BA:613:G:H5'	35:BA:613:G:C8	2.16	0.78
35:BA:703:U:H3	35:BA:728:G:H1	1.30	0.78
35:BA:910:A:C2	48:BQ:13:GLN:NE2	2.52	0.78
35:BA:1498:C:H2'	35:BA:1499:C:H5'	1.66	0.78
35:BA:1895:C:H5'	35:BA:1895:C:H6	1.48	0.78
35:BA:2431:U:C6	35:BA:2433:A:OP2	2.37	0.78
35:BA:2606:C:H2'	35:BA:2607:G:H8	1.48	0.78
38:BD:229:VAL:HG13	38:BD:230:ASP:H	1.47	0.78
42:BH:154:PRO:HB3	42:BH:161:GLY:HA3	1.66	0.78
1:AA:894:G:H2'	1:AA:895:G:H5'	1.64	0.78
1:AA:1117:G:O2'	9:AI:106:ALA:HB2	1.83	0.78
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.46	0.78
2:AB:17:PHE:HD1	2:AB:17:PHE:O	1.67	0.78
4:AD:88:VAL:O	4:AD:92:VAL:HG23	1.83	0.78
9:AI:48:GLU:N	9:AI:49:PRO:HD2	1.99	0.78
20:AT:18:GLN:O	20:AT:22:ARG:HG3	1.83	0.78
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.66	0.78
35:BA:1582:C:O2'	35:BA:1586:A:C8	2.36	0.78
35:BA:1665:A:C2'	35:BA:1666:G:H5''	2.12	0.78
35:BA:2639:A:H1'	35:BA:2778:A:C2	2.18	0.78
36:BB:27:C:H5'	36:BB:28:C:OP2	1.84	0.78
37:BC:6:ARG:HH22	37:BC:10:LEU:HD23	1.47	0.78
40:BF:188:ARG:HA	47:BP:7:ARG:CD	2.14	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:98:LYS:O	48:BQ:101:ARG:HB2	1.83	0.78
50:BS:30:ARG:HD3	50:BS:97:ARG:HG2	1.63	0.78
1:AA:681:C:H4'	38:BD:174:ILE:HD12	1.66	0.78
1:AA:773:G:H5''	38:BD:203:ASN:HD22	1.47	0.78
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.19	0.78
1:AA:1019:C:O2'	1:AA:1020:U:H5'	1.84	0.78
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.48	0.78
24:AY:171:TRP:HB3	24:AY:172:PRO:HD2	1.66	0.78
35:BA:1639:U:H4'	35:BA:2699:C:C4'	2.14	0.78
36:BB:57:A:C2	36:BB:58:A:C4	2.72	0.78
39:BE:28:ALA:HB2	39:BE:182:LEU:HD22	1.66	0.78
45:BN:96:GLU:HG2	45:BN:97:ARG:N	1.99	0.78
54:BW:4:LYS:HD3	54:BW:6:ILE:HD11	1.66	0.78
57:BZ:35:ARG:CZ	57:BZ:35:ARG:HA	2.13	0.78
1:AA:525:C:H2'	1:AA:526:C:H6	1.49	0.78
1:AA:738:C:H2'	1:AA:739:C:C6	2.19	0.78
3:AC:86:VAL:O	3:AC:90:GLU:HG3	1.83	0.78
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.83	0.78
6:AF:5:GLU:HG3	6:AF:93:SER:OG	1.83	0.78
7:AG:140:ASP:HA	7:AG:143:ARG:HD2	1.65	0.78
11:AK:13:GLN:HB3	11:AK:75:TYR:O	1.84	0.78
22:AV:27:U:H2'	22:AV:28:C:C5'	2.14	0.78
24:AY:12:LYS:CG	24:AY:82:CYS:HA	2.14	0.78
27:B2:19:VAL:HG12	27:B2:23:LYS:HE3	1.65	0.78
35:BA:296:C:OP1	56:BY:5:MET:HE1	1.82	0.78
35:BA:692:C:H2'	35:BA:693:C:H6	1.50	0.78
35:BA:1791:A:H4'	38:BD:206:LEU:CD1	2.14	0.78
37:BC:115:ALA:HB3	37:BC:120:MET:HE1	1.65	0.78
38:BD:213:ARG:HH12	38:BD:219:PRO:CD	1.95	0.78
40:BF:125:LEU:HD12	40:BF:196:LEU:CD2	2.14	0.78
40:BF:162:LEU:H	40:BF:162:LEU:HD12	1.49	0.78
42:BH:38:SER:OG	42:BH:40:GLU:HB2	1.84	0.78
52:BU:3:ARG:HH12	52:BU:5:LYS:HD2	1.48	0.78
56:BY:73:ARG:HA	56:BY:73:ARG:HE	1.49	0.78
1:AA:258:G:H2'	1:AA:259:G:H8	1.49	0.77
1:AA:332:G:H2'	1:AA:333:G:H8	1.49	0.77
1:AA:632:A:H3'	1:AA:633:G:H8	1.48	0.77
1:AA:894:G:C2'	1:AA:895:G:H5'	2.15	0.77
1:AA:1001(A):G:H8	1:AA:1002:G:C8	2.01	0.77
1:AA:1407:C:H2'	1:AA:1408:A:C5'	2.14	0.77
1:AA:1494:G:C6	1:AA:1495:U:C4	2.71	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:11:LEU:HB3	4:AD:66:ARG:NH1	1.98	0.77
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.66	0.77
20:AT:59:ALA:O	20:AT:63:ILE:HG13	1.83	0.77
21:AU:23:PRO:C	21:AU:25:LYS:H	1.91	0.77
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.12	0.77
40:BF:8:GLN:HG3	40:BF:9:ILE:H	1.49	0.77
40:BF:165:ARG:HA	40:BF:168:ARG:HH21	1.50	0.77
57:BZ:100:VAL:HG11	57:BZ:137:ILE:CG1	2.14	0.77
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.99	0.77
9:AI:4:TYR:HD2	9:AI:85:LEU:HA	1.49	0.77
9:AI:104:ARG:HH11	9:AI:104:ARG:HG3	1.45	0.77
10:AJ:4:ILE:HG21	10:AJ:74:ILE:HD11	1.65	0.77
14:AN:6:LEU:HB3	14:AN:23:ARG:HH22	1.49	0.77
24:AY:119:VAL:HG22	24:AY:124:ARG:CG	2.14	0.77
24:AY:170:THR:HA	24:AY:183:TYR:O	1.84	0.77
24:AY:300:VAL:HG13	24:AY:316:ALA:O	1.84	0.77
24:AY:420:SER:O	24:AY:422:GLU:N	2.15	0.77
25:B0:51:VAL:HG22	25:B0:81:VAL:CG2	2.14	0.77
33:B8:23:VAL:HG22	33:B8:47:LYS:O	1.84	0.77
35:BA:27:G:N2	35:BA:512:G:H2'	1.98	0.77
35:BA:764:A:OP1	38:BD:208:LYS:HE3	1.83	0.77
35:BA:1639:U:H2'	35:BA:1640:C:H5''	1.66	0.77
35:BA:2223:G:C5'	38:BD:269:PHE:HZ	1.98	0.77
35:BA:2720:U:H3'	35:BA:2721:A:H8	1.49	0.77
51:BT:96:ARG:HB2	51:BT:96:ARG:HH11	1.49	0.77
52:BU:107:ALA:O	52:BU:110:VAL:HB	1.85	0.77
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.46	0.77
2:AB:122:PHE:HA	2:AB:139:LYS:NZ	1.99	0.77
5:AE:129:ILE:HD12	5:AE:129:ILE:H	1.47	0.77
8:AH:14:ARG:NE	8:AH:83:ILE:HG23	2.00	0.77
11:AK:124:LYS:NZ	11:AK:125:PHE:HE1	1.81	0.77
35:BA:1258:C:C1'	40:BF:84:VAL:HG21	2.14	0.77
35:BA:2330:G:H2'	35:BA:2331:G:O4'	1.84	0.77
37:BC:42:GLU:HG2	37:BC:44:HIS:CE1	2.19	0.77
38:BD:9:TYR:OH	38:BD:13:ARG:CZ	2.33	0.77
39:BE:4:ILE:HG21	39:BE:96:PHE:HE2	1.48	0.77
40:BF:156:LEU:HD23	40:BF:167:ALA:HB3	1.66	0.77
42:BH:43:VAL:CG1	42:BH:52:VAL:HG23	2.14	0.77
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.64	0.77
1:AA:32:A:OP1	1:AA:398:C:H1'	1.84	0.77
8:AH:1:MET:N	8:AH:1:MET:HE2	2.00	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:41:ARG:CB	12:AL:41:ARG:NH1	2.47	0.77
20:AT:36:LEU:HD13	20:AT:36:LEU:O	1.83	0.77
24:AY:296:PHE:CB	24:AY:331:LEU:HD11	2.15	0.77
25:B0:37:LEU:CD2	25:B0:60:PHE:HA	2.13	0.77
27:B2:63:VAL:O	27:B2:67:LYS:HG3	1.84	0.77
35:BA:572:A:H2'	35:BA:573:G:C1'	2.14	0.77
35:BA:753:C:H2'	35:BA:754:C:H6	1.48	0.77
35:BA:2007:C:H4'	35:BA:2824:C:O2'	1.83	0.77
40:BF:36:VAL:HG22	40:BF:101:LEU:HD21	1.66	0.77
40:BF:70:THR:C	40:BF:72:ARG:H	1.92	0.77
45:BN:90:MET:CE	45:BN:94:HIS:HB2	2.15	0.77
48:BQ:36:ALA:HB2	48:BQ:103:MET:CE	2.14	0.77
49:BR:93:GLY:C	49:BR:94:TYR:HD1	1.92	0.77
53:BV:5:VAL:HG21	53:BV:35:LEU:HB3	1.67	0.77
1:AA:1166:G:H21	1:AA:1169:A:H3'	1.49	0.77
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.85	0.77
3:AC:153:VAL:HG23	3:AC:166:GLU:O	1.83	0.77
6:AF:4:TYR:CD1	6:AF:92:LYS:HG3	2.19	0.77
10:AJ:29:ARG:HG2	10:AJ:29:ARG:O	1.84	0.77
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	1.85	0.77
15:AO:18:PHE:CE1	15:AO:21:ASP:HB3	2.19	0.77
24:AY:170:THR:HB	24:AY:182:VAL:HG12	1.64	0.77
27:B2:35:LEU:HD11	27:B2:50:ILE:CG1	2.13	0.77
35:BA:1018:C:O2'	35:BA:1019:U:H5'	1.84	0.77
35:BA:1491:G:H2'	35:BA:1492:G:H8	1.49	0.77
35:BA:2012:G:H5''	54:BW:96:ILE:HD11	1.66	0.77
35:BA:2235:G:O2'	35:BA:2236:C:H5'	1.84	0.77
35:BA:2689:U:C5'	35:BA:2690:C:H5'	2.12	0.77
38:BD:72:LYS:HD3	38:BD:97:TYR:CE2	2.19	0.77
41:BG:60:LEU:HD22	41:BG:63:ILE:HD11	1.67	0.77
41:BG:140:ILE:HD12	41:BG:140:ILE:C	2.08	0.77
45:BN:34:LEU:HD13	45:BN:52:VAL:HG23	1.67	0.77
47:BP:101:VAL:HG23	47:BP:102:ARG:N	2.00	0.77
48:BQ:60:ARG:HH11	48:BQ:60:ARG:CB	1.97	0.77
1:AA:306:G:O2'	1:AA:307:C:H5'	1.85	0.77
1:AA:320:C:H2'	1:AA:321:A:C8	2.20	0.77
1:AA:438:G:H5'	4:AD:123:HIS:ND1	2.00	0.77
6:AF:72:VAL:CG1	6:AF:73:ASN:H	1.96	0.77
12:AL:89:ARG:NH1	12:AL:91:LYS:HA	1.99	0.77
28:B3:8:LEU:HD22	28:B3:32:GLN:N	1.99	0.77
35:BA:1170:G:N2	35:BA:1179:C:H42	1.82	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1825:A:H2'	35:BA:1826:G:C8	2.20	0.77
35:BA:1947:C:H2'	35:BA:1948:G:H5''	0.86	0.77
35:BA:2014:A:C2'	35:BA:2015:A:N7	2.43	0.77
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.49	0.77
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.50	0.77
35:BA:2690:C:OP1	49:BR:17:ARG:NH2	2.18	0.77
38:BD:265:PRO:C	38:BD:267:SER:H	1.90	0.77
41:BG:8:LYS:HZ2	41:BG:100:TRP:CD1	2.03	0.77
45:BN:14:VAL:HG11	45:BN:137:LYS:HG3	1.65	0.77
47:BP:58:THR:O	47:BP:61:ARG:NE	2.16	0.77
1:AA:160:A:H1'	1:AA:344:A:C5	2.20	0.77
1:AA:265:G:H2'	1:AA:267:C:H5	1.50	0.77
1:AA:681:C:C5'	38:BD:174:ILE:HD12	2.15	0.77
1:AA:1342:C:H5''	9:AI:125:TYR:HB3	1.66	0.77
4:AD:99:SER:O	4:AD:139:ARG:HA	1.83	0.77
6:AF:98:LEU:HD12	6:AF:98:LEU:N	1.97	0.77
13:AM:2:ALA:N	13:AM:9:ILE:CG2	2.48	0.77
14:AN:33:VAL:HG12	14:AN:39:LEU:O	1.85	0.77
18:AR:43:PHE:C	18:AR:51:LEU:HD12	2.10	0.77
20:AT:78:ALA:HA	20:AT:81:LYS:CD	2.14	0.77
24:AY:106:VAL:HG22	24:AY:107:ASP:H	1.50	0.77
24:AY:360:TYR:CB	24:AY:361:PRO:HD2	2.15	0.77
24:AY:513:LEU:HB3	24:AY:517:ARG:NE	1.99	0.77
26:B1:48:LYS:HE3	26:B1:59:THR:HB	1.66	0.77
29:B4:10:VAL:CG2	29:B4:11:PRO:HD2	2.15	0.77
29:B4:25:TYR:O	29:B4:26:SER:OG	2.03	0.77
35:BA:1468:C:H2'	35:BA:1469:A:C8	2.20	0.77
35:BA:1578:U:H2'	35:BA:1579:A:C5'	2.15	0.77
35:BA:2295:C:H2'	35:BA:2296:U:C5	2.20	0.77
38:BD:33:LEU:HD22	38:BD:102:LYS:HD3	1.67	0.77
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.49	0.77
47:BP:6:LEU:HG	47:BP:9:ASN:HB2	1.67	0.77
1:AA:230:G:OP1	16:AP:33:ILE:HD11	1.84	0.77
2:AB:162:ILE:O	2:AB:185:ILE:HD13	1.84	0.77
7:AG:126:ASP:HB2	7:AG:132:GLY:HA2	1.67	0.77
17:AQ:95:TYR:HD1	17:AQ:98:LEU:HD12	1.48	0.77
18:AR:63:GLN:O	18:AR:66:LEU:HB3	1.84	0.77
24:AY:197:LYS:HB2	24:AY:202:GLN:HG3	1.65	0.77
24:AY:369:ASN:HB2	24:AY:373:ILE:HG13	1.66	0.77
24:AY:443:VAL:CG2	24:AY:444:LEU:H	1.89	0.77
29:B4:14:ILE:HG13	29:B4:31:ILE:CB	2.15	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:13:ARG:CD	47:BP:61:ARG:HH11	1.97	0.77
35:BA:1882:C:H2'	35:BA:1883:G:H5'	1.67	0.77
35:BA:2483:C:N3	48:BQ:124:LYS:NZ	2.29	0.77
41:BG:11:TYR:CD1	41:BG:15:VAL:HB	2.20	0.77
41:BG:33:ARG:H	41:BG:162:THR:CB	1.97	0.77
48:BQ:141:GLN:NE2	57:BZ:72:ARG:HA	2.00	0.77
53:BV:28:GLU:HB3	53:BV:29:PRO:HD2	1.65	0.77
1:AA:597:G:H2'	1:AA:598:U:H5'	1.66	0.77
2:AB:103:THR:HA	2:AB:180:LEU:HD11	1.65	0.77
2:AB:236:TYR:H	2:AB:236:TYR:HD1	1.31	0.77
3:AC:47:LEU:HD23	3:AC:52:LEU:HD13	1.66	0.77
9:AI:48:GLU:O	9:AI:51:ARG:HB2	1.84	0.77
24:AY:16:PHE:HA	24:AY:106:VAL:HG23	1.67	0.77
24:AY:119:VAL:HG22	24:AY:124:ARG:HG2	1.67	0.77
35:BA:370:G:H3'	35:BA:423:A:C5	2.20	0.77
35:BA:655:A:C4'	35:BA:656:G:H5'	2.14	0.77
35:BA:1830:C:H5'	38:BD:15:PHE:CE2	2.20	0.77
35:BA:1919:A:C3'	35:BA:1920:C:C5'	2.63	0.77
39:BE:117:MET:CA	39:BE:122:PHE:H	1.96	0.77
40:BF:175:THR:C	40:BF:176:LEU:HD12	2.10	0.77
55:BX:12:VAL:CG2	55:BX:13:LEU:N	2.45	0.77
57:BZ:99:TYR:HE1	57:BZ:125:LEU:HD12	1.49	0.77
1:AA:199:G:H2'	1:AA:200:G:C8	2.20	0.77
1:AA:624:C:H2'	1:AA:625:G:H8	1.50	0.77
1:AA:975:A:H5'	1:AA:975:A:C8	2.20	0.77
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.67	0.77
1:AA:1151:A:C4	1:AA:1152:A:N7	2.53	0.77
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.14	0.77
2:AB:42:ILE:HD12	2:AB:203:GLY:HA2	1.67	0.77
8:AH:36:LEU:HD11	8:AH:59:LEU:HD13	1.67	0.77
15:AO:39:LEU:CD1	15:AO:56:LEU:HD21	2.14	0.77
15:AO:65:ARG:HH11	15:AO:65:ARG:CG	1.97	0.77
24:AY:335:ARG:HH21	24:AY:335:ARG:CG	1.95	0.77
24:AY:442:GLY:O	24:AY:443:VAL:HG22	1.84	0.77
35:BA:811:U:C6	47:BP:24:GLY:O	2.37	0.77
35:BA:917:A:H2	36:BB:79:C:O2	1.68	0.77
35:BA:1070:A:N6	44:BK:7:UNK:O	2.18	0.77
36:BB:68:C:H2'	36:BB:69:G:C8	2.20	0.77
38:BD:10:THR:O	38:BD:11:PRO:O	2.01	0.77
47:BP:50:ARG:HG3	47:BP:51:PHE:N	2.00	0.77
47:BP:70:GLN:HB3	47:BP:72:PRO:HD3	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:381:C:H2'	1:AA:382:A:C8	2.20	0.76
1:AA:1346:A:H5'	9:AI:120:ARG:HH12	1.49	0.76
2:AB:185:ILE:HD12	2:AB:185:ILE:N	2.00	0.76
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.15	0.76
13:AM:91:ARG:O	13:AM:95:GLY:N	2.17	0.76
16:AP:4:ILE:HD12	16:AP:66:PRO:HG3	1.64	0.76
21:AU:6:ARG:O	21:AU:12:LYS:NZ	2.16	0.76
24:AY:184:HIS:CE1	24:AY:191:TYR:CZ	2.73	0.76
35:BA:2303:G:H1	35:BA:2313:C:N4	1.82	0.76
35:BA:2512:C:H4'	39:BE:122:PHE:CZ	2.20	0.76
37:BC:42:GLU:CD	37:BC:44:HIS:HE2	1.93	0.76
49:BR:76:VAL:HG22	49:BR:80:PHE:CE2	2.20	0.76
54:BW:13:SER:O	54:BW:17:VAL:HG23	1.85	0.76
1:AA:9:G:OP2	5:AE:121:LYS:NZ	2.17	0.76
1:AA:937:A:H2'	1:AA:938:A:H8	1.48	0.76
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.49	0.76
12:AL:109:GLY:HA3	12:AL:121:GLY:HA3	1.66	0.76
16:AP:74:LEU:O	16:AP:79:VAL:HG23	1.85	0.76
19:AS:44:MET:SD	19:AS:44:MET:N	2.57	0.76
19:AS:45:VAL:HA	19:AS:62:ILE:HG13	1.67	0.76
33:B8:37:SER:OG	33:B8:40:GLU:HG3	1.84	0.76
35:BA:628:G:H2'	35:BA:629:G:H5''	1.63	0.76
35:BA:2893:G:C5'	35:BA:2894:G:H5'	2.13	0.76
36:BB:95:C:O2'	36:BB:96:U:H5'	1.85	0.76
45:BN:58:ASP:O	45:BN:60:ILE:N	2.15	0.76
1:AA:598:U:H2'	1:AA:599:C:C6	2.19	0.76
4:AD:143:GLY:N	4:AD:185:PHE:O	2.18	0.76
9:AI:46:ALA:HB2	9:AI:74:ILE:CG2	2.15	0.76
24:AY:171:TRP:O	24:AY:182:VAL:HA	1.85	0.76
24:AY:300:VAL:HG11	24:AY:316:ALA:HB1	1.66	0.76
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.85	0.76
30:B5:49:CYS:SG	30:B5:50:GLY:N	2.59	0.76
35:BA:1120:G:H2'	35:BA:1121:C:O4'	1.85	0.76
35:BA:1791:A:H4'	38:BD:206:LEU:HD13	1.66	0.76
35:BA:2589:A:O2'	35:BA:2590:A:H5'	1.85	0.76
48:BQ:63:LYS:HZ3	57:BZ:175:VAL:HG11	1.47	0.76
57:BZ:16:SER:O	57:BZ:20:ARG:HG2	1.84	0.76
1:AA:293:G:H5'	1:AA:610:G:C2	2.19	0.76
1:AA:702:A:H61	35:BA:1846:G:H5''	1.49	0.76
4:AD:11:LEU:HB3	4:AD:66:ARG:HH11	1.48	0.76
31:B6:14:THR:CG2	31:B6:50:ARG:HB2	2.14	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:6:A:H2'	35:BA:7:G:H8	1.50	0.76
35:BA:535:C:H2'	35:BA:536:A:C8	2.21	0.76
35:BA:996:A:H4'	52:BU:92:ARG:HE	1.49	0.76
35:BA:1161:C:H2'	35:BA:1162:G:C8	2.19	0.76
35:BA:1906:G:H1	35:BA:1924:C:H42	1.29	0.76
35:BA:2159:G:C2'	35:BA:2160:G:H5''	2.15	0.76
35:BA:2472:G:H5'	35:BA:2473:U:C5'	2.12	0.76
35:BA:2785:C:H2'	35:BA:2786:U:C6	2.20	0.76
37:BC:47:LEU:HD12	37:BC:47:LEU:H	1.46	0.76
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.84	0.76
51:BT:32:TYR:HB3	51:BT:81:PRO:HB3	1.66	0.76
52:BU:19:LYS:C	52:BU:21:ALA:H	1.91	0.76
52:BU:74:LEU:HD11	52:BU:79:PHE:HB2	1.68	0.76
1:AA:538:G:H5''	12:AL:114:LYS:HB2	1.67	0.76
1:AA:1035:A:H2'	1:AA:1036:G:C8	2.20	0.76
2:AB:115:LEU:HB2	2:AB:145:LEU:HD12	1.67	0.76
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.67	0.76
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.21	0.76
19:AS:20:LEU:HA	19:AS:23:ASN:HB3	1.67	0.76
24:AY:300:VAL:CG1	24:AY:316:ALA:HB1	2.14	0.76
25:B0:38:VAL:HB	25:B0:59:LEU:HB2	1.66	0.76
35:BA:871:U:OP1	48:BQ:5:ARG:HG3	1.86	0.76
36:BB:106:G:H2'	36:BB:107:G:C8	2.20	0.76
37:BC:55:ASP:O	37:BC:56:GLN:HG3	1.84	0.76
38:BD:16:MET:CB	38:BD:207:GLY:HA3	2.15	0.76
38:BD:71:ASP:CG	38:BD:103:ARG:HH12	1.94	0.76
40:BF:185:ASP:HA	40:BF:188:ARG:HG2	1.68	0.76
41:BG:133:LEU:CG	41:BG:157:ILE:HB	2.15	0.76
48:BQ:48:GLU:HA	48:BQ:51:ARG:HB3	1.68	0.76
51:BT:64:ARG:CZ	51:BT:103:ARG:HA	2.16	0.76
51:BT:78:LEU:HB3	51:BT:79:HIS:CE1	2.20	0.76
51:BT:90:GLN:CG	51:BT:120:ARG:HH22	1.98	0.76
51:BT:108:ARG:HA	51:BT:111:ARG:NH1	2.00	0.76
1:AA:577:G:H22	1:AA:765:G:H1'	1.50	0.76
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.21	0.76
1:AA:1502:A:C2	1:AA:1504:G:C2	2.73	0.76
2:AB:67:THR:HA	2:AB:90:MET:HE1	1.68	0.76
8:AH:9:MET:SD	8:AH:26:VAL:HG21	2.25	0.76
24:AY:295:LYS:C	24:AY:323:GLY:HA3	2.11	0.76
35:BA:322:A:H5'	35:BA:340:A:H1'	1.65	0.76
35:BA:659:C:O2'	35:BA:660:G:H5'	1.86	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1385:G:H4'	35:BA:1386:C:OP1	1.86	0.76
35:BA:1569:A:H2'	35:BA:1570:A:C8	2.21	0.76
35:BA:2125:G:N2	35:BA:2173:A:N6	2.34	0.76
36:BB:81:G:H2'	36:BB:82:G:H5'	1.65	0.76
36:BB:91:C:OP2	48:BQ:16:ARG:HD2	1.85	0.76
38:BD:89:SER:OG	38:BD:159:ALA:HB2	1.86	0.76
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.53	0.76
1:AA:1409:C:H2'	1:AA:1410:G:C8	2.18	0.76
19:AS:26:GLY:HA2	29:B4:47:GLN:O	1.86	0.76
21:AU:24:ARG:HG2	21:AU:24:ARG:O	1.84	0.76
24:AY:457:TYR:CB	24:AY:459:VAL:HG22	2.16	0.76
35:BA:628:G:O2'	35:BA:629:G:H5''	1.85	0.76
35:BA:1998:G:O2'	35:BA:1999:C:H5'	1.85	0.76
35:BA:2823:A:H2'	35:BA:2824:C:H6	1.50	0.76
41:BG:64:THR:HG23	41:BG:65:GLY:N	2.01	0.76
46:BO:14:THR:HG22	46:BO:95:GLY:N	2.00	0.76
49:BR:7:GLY:O	49:BR:8:ARG:HB2	1.84	0.76
49:BR:96:ARG:O	49:BR:114:VAL:HA	1.86	0.76
1:AA:1004:A:H5''	1:AA:1025:U:O4	1.86	0.76
1:AA:1417:G:H2'	1:AA:1482:G:N2	2.01	0.76
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.50	0.76
12:AL:36:VAL:CG1	12:AL:82:VAL:HG22	2.15	0.76
18:AR:53:ARG:HG2	18:AR:58:LEU:O	1.85	0.76
24:AY:373:ILE:CG2	24:AY:374:GLN:H	1.96	0.76
31:B6:28:ARG:HA	31:B6:32:ASN:HD22	1.49	0.76
35:BA:588:U:H2'	35:BA:589:C:C6	2.21	0.76
35:BA:1614:A:N6	54:BW:87:PRO:HA	2.01	0.76
35:BA:1789:A:H2'	35:BA:1790:C:O4'	1.86	0.76
38:BD:181:GLU:CA	38:BD:272:ALA:HB1	2.15	0.76
40:BF:195:ASP:HB3	40:BF:198:ALA:CB	2.15	0.76
42:BH:143:GLN:OE1	42:BH:143:GLN:HA	1.85	0.76
48:BQ:122:GLY:HA2	48:BQ:125:LEU:HD23	1.68	0.76
56:BY:12:THR:CB	56:BY:75:ILE:HG21	2.13	0.76
56:BY:86:ARG:CZ	56:BY:95:LYS:HZ3	1.99	0.76
1:AA:254:G:O2'	1:AA:255:G:H5'	1.85	0.76
1:AA:601:C:H2'	1:AA:602:A:H8	1.51	0.76
1:AA:1001:A:N3	1:AA:1001:A:H2'	2.01	0.76
4:AD:61:LYS:HD2	4:AD:207:TYR:OH	1.85	0.76
24:AY:331:LEU:HB3	24:AY:379:PHE:CD2	2.20	0.76
25:B0:43:THR:HG23	25:B0:43:THR:O	1.85	0.76
31:B6:38:LYS:HG2	31:B6:48:VAL:HG12	1.67	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:308:G:H1'	35:BA:501:A:OP1	1.85	0.76
35:BA:996:A:N6	35:BA:1159:U:H3	1.82	0.76
35:BA:1892:C:O2'	35:BA:1893:C:H5''	1.86	0.76
35:BA:1936:A:P	35:BA:1961:C:H41	2.09	0.76
38:BD:2:ALA:C	38:BD:3:VAL:HG23	2.11	0.76
39:BE:144:ARG:HG2	39:BE:145:LYS:H	1.50	0.76
52:BU:34:LYS:HE2	52:BU:34:LYS:HA	1.68	0.76
56:BY:46:LYS:H	56:BY:62:GLU:HG2	1.46	0.76
57:BZ:119:GLU:HG3	57:BZ:122:ARG:HD3	1.67	0.76
8:AH:82:HIS:HD2	8:AH:138:TRP:HE1	1.31	0.76
12:AL:36:VAL:HG12	12:AL:82:VAL:HG13	1.68	0.76
17:AQ:10:VAL:HB	17:AQ:54:GLY:H	1.51	0.76
19:AS:45:VAL:HA	19:AS:62:ILE:CG1	2.14	0.76
24:AY:111:MET:HE1	24:AY:139:THR:HG21	1.66	0.76
24:AY:421:GLU:O	24:AY:422:GLU:CG	2.32	0.76
32:B7:40:TRP:CE2	35:BA:459:U:H5'	2.20	0.76
33:B8:13:ARG:HH11	47:BP:61:ARG:HD2	1.49	0.76
35:BA:750:A:H2'	35:BA:751:A:H5''	1.68	0.76
35:BA:1321:A:H5'	35:BA:1322:A:OP2	1.85	0.76
35:BA:2375:G:H1'	35:BA:2379:G:N2	2.01	0.76
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	1.86	0.76
39:BE:170:LEU:H	39:BE:170:LEU:HD12	1.49	0.76
49:BR:28:LEU:HD23	49:BR:29:LEU:CD1	2.15	0.76
50:BS:89:ARG:O	50:BS:92:TYR:HB3	1.86	0.76
53:BV:4:ILE:HD12	53:BV:40:LEU:HB2	1.67	0.76
55:BX:57:LEU:CD2	55:BX:78:LYS:HE2	2.07	0.76
1:AA:1310:G:H2'	1:AA:1311:G:C8	2.20	0.75
1:AA:1383:C:H2'	1:AA:1384:C:H6	1.50	0.75
2:AB:102:LEU:O	2:AB:105:PHE:N	2.18	0.75
4:AD:123:HIS:HB2	4:AD:125:HIS:CD2	2.20	0.75
9:AI:69:GLY:O	9:AI:73:GLN:HG3	1.85	0.75
13:AM:15:VAL:O	13:AM:19:LEU:HD22	1.87	0.75
22:AV:53:G:H4'	22:AV:54:U:OP1	1.85	0.75
24:AY:78:PRO:HB3	24:AY:83:LEU:HB3	1.68	0.75
24:AY:155:LEU:HD23	24:AY:166:CYS:CB	2.15	0.75
24:AY:222:ASP:O	24:AY:226:GLN:CB	2.32	0.75
24:AY:255:PHE:CE1	24:AY:268:MET:SD	2.79	0.75
24:AY:373:ILE:O	24:AY:374:GLN:HG3	1.86	0.75
28:B3:4:LEU:HD12	28:B3:39:ASP:HA	1.68	0.75
35:BA:614(C):A:C2	40:BF:180:GLY:HA2	2.21	0.75
35:BA:1922:G:HO2'	35:BA:1923:U:H5'	1.49	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2027:G:O2'	35:BA:2028:U:H5'	1.84	0.75
41:BG:99:MET:O	41:BG:103:LEU:HB2	1.85	0.75
45:BN:2:LYS:HZ3	52:BU:95:LEU:HD21	1.50	0.75
47:BP:58:THR:O	47:BP:58:THR:HG22	1.86	0.75
56:BY:25:GLY:HA3	56:BY:40:GLU:HG2	1.67	0.75
56:BY:67:LEU:HD21	56:BY:71:LYS:HB2	1.68	0.75
57:BZ:35:ARG:HA	57:BZ:35:ARG:NE	2.00	0.75
1:AA:23:C:O2'	1:AA:24:U:H5'	1.85	0.75
1:AA:673:G:C2'	1:AA:674:G:C8	2.65	0.75
1:AA:1199:U:H4'	10:AJ:54:PHE:CE2	2.21	0.75
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.21	0.75
1:AA:1241:G:OP1	7:AG:35:LYS:NZ	2.18	0.75
1:AA:1405:G:O2'	1:AA:1519:A:H5'	1.85	0.75
3:AC:21:ARG:HG2	3:AC:58:GLU:HG2	1.67	0.75
13:AM:56:LEU:O	13:AM:60:VAL:HG23	1.86	0.75
16:AP:28:ARG:HG2	16:AP:29:ASP:OD1	1.85	0.75
35:BA:199:A:H61	35:BA:2433:A:H2'	1.48	0.75
35:BA:382:G:C2'	35:BA:383:U:H5'	2.15	0.75
42:BH:110:SER:O	42:BH:111:HIS:HB2	1.84	0.75
45:BN:91:LEU:HA	45:BN:95:PRO:CB	2.11	0.75
47:BP:64:LYS:O	47:BP:66:GLY:N	2.19	0.75
51:BT:28:VAL:HG22	51:BT:47:GLY:N	2.00	0.75
51:BT:124:ASP:HB3	51:BT:125:ARG:HH12	1.49	0.75
54:BW:1:MET:HE3	54:BW:2:GLU:N	2.01	0.75
1:AA:80:G:H3'	1:AA:81:U:C5'	2.15	0.75
1:AA:974:A:H8	14:AN:31:ARG:HD3	1.50	0.75
12:AL:83:VAL:CG1	12:AL:107:ALA:HB2	2.16	0.75
15:AO:39:LEU:HD13	15:AO:56:LEU:HD21	1.68	0.75
24:AY:173:ILE:O	24:AY:180:LYS:HB2	1.87	0.75
24:AY:247:LEU:C	24:AY:249:GLY:H	1.94	0.75
28:B3:8:LEU:HD21	28:B3:31:LEU:HA	1.66	0.75
35:BA:953:A:H61	35:BA:964:C:H42	1.33	0.75
35:BA:1251:C:OP1	52:BU:10:ARG:HG3	1.87	0.75
35:BA:1846:G:N2	35:BA:1847:A:C2	2.54	0.75
38:BD:80:ALA:HB2	38:BD:96:HIS:CD2	2.21	0.75
51:BT:91:ARG:O	51:BT:117:ASP:HB3	1.85	0.75
1:AA:575:G:H4'	1:AA:576:G:O5'	1.85	0.75
1:AA:1491:G:C2'	1:AA:1492:A:C8	2.68	0.75
13:AM:90:LEU:HD23	13:AM:90:LEU:N	2.02	0.75
17:AQ:29:HIS:ND1	17:AQ:30:PRO:HD2	2.02	0.75
17:AQ:75:ARG:HH11	17:AQ:75:ARG:HG3	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:56:MET:HE1	20:AT:104:LEU:HB2	1.66	0.75
24:AY:76:GLN:NE2	24:AY:85:ASN:ND2	2.32	0.75
24:AY:113:ILE:HG23	24:AY:118:GLY:O	1.86	0.75
24:AY:424:ALA:O	24:AY:425:VAL:HG13	1.86	0.75
30:B5:25:LEU:HG	54:BW:19:LEU:HG	1.67	0.75
35:BA:327:G:N2	35:BA:328:U:H1'	2.01	0.75
35:BA:575:A:O2'	35:BA:576:U:H5'	1.87	0.75
35:BA:909:A:H2'	35:BA:912:C:N4	2.01	0.75
35:BA:914:C:C2'	35:BA:915:C:H5'	2.12	0.75
35:BA:925:C:C2'	35:BA:926:A:H5''	2.15	0.75
35:BA:2188:C:H2'	35:BA:2189:U:C2	2.21	0.75
35:BA:2864:G:H2'	35:BA:2865:U:H6	1.50	0.75
39:BE:22:PRO:O	39:BE:23:VAL:HG13	1.86	0.75
51:BT:22:PHE:HE2	51:BT:85:LYS:HZ1	1.33	0.75
53:BV:19:LYS:HG2	53:BV:94:LEU:HB2	1.68	0.75
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.86	0.75
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.51	0.75
4:AD:8:VAL:C	4:AD:10:ARG:H	1.94	0.75
24:AY:278:ALA:HB1	24:AY:279:PRO:HD2	1.68	0.75
27:B2:35:LEU:HD13	27:B2:36:ARG:N	2.01	0.75
28:B3:5:LYS:CA	28:B3:36:VAL:HG12	2.16	0.75
34:B9:10:ILE:H	34:B9:10:ILE:HD12	1.50	0.75
35:BA:606:U:H4'	35:BA:658:C:C4'	2.16	0.75
35:BA:1657:C:H5''	39:BE:133:LYS:O	1.87	0.75
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.68	0.75
39:BE:8:LYS:HA	39:BE:26:ILE:HG23	1.66	0.75
39:BE:101:ARG:HD2	39:BE:169:ASN:ND2	2.02	0.75
40:BF:3:GLU:O	40:BF:24:LEU:HG	1.87	0.75
57:BZ:120:ILE:HG12	57:BZ:172:ALA:CA	2.16	0.75
1:AA:618:C:N4	1:AA:623:C:H42	1.83	0.75
1:AA:681:C:C4'	38:BD:174:ILE:HD12	2.16	0.75
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.86	0.75
3:AC:138:VAL:HG23	3:AC:149:ALA:HB3	1.68	0.75
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.14	0.75
12:AL:119:LYS:O	12:AL:120:TYR:HB2	1.85	0.75
17:AQ:5:VAL:O	17:AQ:6:LEU:HD23	1.86	0.75
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.68	0.75
32:B7:46:VAL:HG12	32:B7:47:ARG:N	2.01	0.75
33:B8:53:PRO:HA	33:B8:56:GLU:OE1	1.85	0.75
34:B9:2:LYS:HA	34:B9:33:LYS:O	1.85	0.75
35:BA:1445(A):C:H2'	35:BA:1446:C:C6	2.22	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1924:C:O2'	35:BA:1925:C:H6	1.70	0.75
35:BA:2396:G:C6	35:BA:2421:G:O6	2.39	0.75
37:BC:37:PHE:CZ	37:BC:217:THR:HG21	2.20	0.75
38:BD:186:HIS:CD2	38:BD:188:GLU:HB2	2.21	0.75
42:BH:88:LEU:CD2	42:BH:130:ARG:HG2	2.16	0.75
47:BP:6:LEU:HD23	47:BP:6:LEU:H	1.51	0.75
47:BP:80:TYR:CD1	47:BP:111:ARG:HB3	2.21	0.75
51:BT:125:ARG:O	51:BT:128:GLU:HG3	1.87	0.75
1:AA:981:U:H5	1:AA:982:U:H2'	1.52	0.75
11:AK:62:GLN:HG2	11:AK:63:LEU:HD23	1.68	0.75
11:AK:63:LEU:HA	11:AK:66:LEU:CD1	2.17	0.75
16:AP:19:ILE:HG12	16:AP:37:GLY:C	2.11	0.75
22:AV:52:G:N2	22:AV:62:C:N3	2.34	0.75
24:AY:99:THR:O	24:AY:102:THR:N	2.19	0.75
35:BA:787:U:H5''	35:BA:788:A:H5'	1.69	0.75
35:BA:903:C:O2'	35:BA:904:C:H5'	1.87	0.75
35:BA:1095:A:H2'	35:BA:1096:A:H8	1.52	0.75
35:BA:1602:U:H3'	35:BA:1603:A:H5'	1.67	0.75
35:BA:1707:G:H2'	35:BA:1708:C:H6	1.52	0.75
35:BA:2720:U:H5'	35:BA:2721:A:OP2	1.87	0.75
40:BF:168:ARG:HG3	40:BF:175:THR:HG21	1.68	0.75
42:BH:12:PRO:HD2	42:BH:15:VAL:HG21	1.68	0.75
42:BH:69:ARG:O	42:BH:73:ALA:HB2	1.86	0.75
45:BN:9:VAL:HG11	45:BN:39:ARG:HH22	1.49	0.75
46:BO:6:THR:HG22	46:BO:7:TYR:N	2.01	0.75
1:AA:16:A:C2'	1:AA:17:U:H5'	2.17	0.75
1:AA:954:G:O2'	13:AM:120:LYS:HD2	1.86	0.75
1:AA:1003:G:N2	1:AA:1039:C:N3	2.35	0.75
1:AA:1500:A:O2'	1:AA:1501:C:H5'	1.86	0.75
3:AC:64:VAL:HG12	3:AC:65:ALA:H	1.50	0.75
5:AE:47:LYS:O	5:AE:48:ALA:HB2	1.86	0.75
8:AH:86:ILE:HD11	8:AH:136:GLU:HG2	1.69	0.75
15:AO:27:VAL:O	15:AO:30:ALA:HB3	1.86	0.75
15:AO:68:ARG:CG	15:AO:72:ARG:HE	1.99	0.75
16:AP:74:LEU:HB3	16:AP:79:VAL:HG21	1.69	0.75
19:AS:58:VAL:HG23	19:AS:60:VAL:HG12	1.69	0.75
20:AT:18:GLN:NE2	20:AT:22:ARG:HH12	1.78	0.75
28:B3:31:LEU:HD23	28:B3:32:GLN:H	1.52	0.75
35:BA:445:C:H5''	52:BU:3:ARG:HB3	1.69	0.75
35:BA:870:A:H5''	48:BQ:6:ARG:HB2	1.69	0.75
35:BA:1135:C:N4	35:BA:1138:G:OP2	2.18	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1707:G:H2'	35:BA:1708:C:C6	2.21	0.75
35:BA:2570:G:H2'	35:BA:2571:C:C6	2.22	0.75
38:BD:182:LEU:O	38:BD:271:ILE:CG1	2.34	0.75
39:BE:8:LYS:HD3	39:BE:191:PRO:O	1.85	0.75
42:BH:98:LEU:HD13	42:BH:102:ALA:C	2.12	0.75
52:BU:9:VAL:O	52:BU:13:LYS:HE2	1.87	0.75
53:BV:2:PHE:O	53:BV:41:GLY:HA2	1.87	0.75
1:AA:375:U:H2'	1:AA:376:G:C8	2.21	0.75
1:AA:978:A:O2'	1:AA:979:C:O4'	2.05	0.75
1:AA:1231:G:H4'	9:AI:126:SER:OG	1.87	0.75
1:AA:1394:A:C8	1:AA:1501:C:O2'	2.40	0.75
2:AB:134:GLU:O	2:AB:138:LEU:HG	1.87	0.75
5:AE:91:LEU:HB3	5:AE:118:ILE:HD11	1.69	0.75
7:AG:101:LEU:O	7:AG:105:VAL:HG23	1.87	0.75
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.69	0.75
24:AY:109:CYS:C	24:AY:137:ILE:CG2	2.60	0.75
24:AY:395:PRO:HG2	24:AY:398:PHE:CE1	2.22	0.75
25:B0:27:GLU:HA	25:B0:67:VAL:O	1.86	0.75
35:BA:1007:C:H5''	45:BN:35:ARG:HH12	1.50	0.75
35:BA:1789:A:H5''	38:BD:221:VAL:HA	1.67	0.75
35:BA:2147:G:H2'	35:BA:2148:G:C5'	2.17	0.75
35:BA:2807:G:H2'	35:BA:2808:U:H5''	1.67	0.75
37:BC:59:ARG:CZ	37:BC:142:ALA:HB2	2.17	0.75
38:BD:3:VAL:HG22	38:BD:200:ASP:CG	2.12	0.75
38:BD:30:GLU:HG3	38:BD:83:GLU:OE1	1.87	0.75
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.51	0.75
40:BF:131:GLY:CA	40:BF:138:GLU:HB3	2.16	0.75
47:BP:38:GLN:HG3	47:BP:39:LYS:N	2.00	0.75
47:BP:113:LYS:CB	47:BP:129:ALA:HB3	2.16	0.75
56:BY:13:VAL:HG22	56:BY:73:ARG:C	2.12	0.75
2:AB:14:GLY:O	2:AB:15:VAL:HG22	1.86	0.74
4:AD:173:TRP:O	4:AD:186:LEU:HB2	1.87	0.74
5:AE:72:GLN:O	5:AE:73:ASN:HB3	1.85	0.74
8:AH:14:ARG:HE	8:AH:83:ILE:HG23	1.51	0.74
15:AO:29:VAL:HG21	15:AO:67:LEU:CD2	2.16	0.74
17:AQ:29:HIS:CG	17:AQ:30:PRO:HD2	2.22	0.74
18:AR:53:ARG:NH1	18:AR:60:ALA:HA	2.02	0.74
19:AS:43:GLU:C	19:AS:45:VAL:H	1.94	0.74
35:BA:587:C:C4	47:BP:33:ARG:HG2	2.22	0.74
35:BA:2508:G:O2'	35:BA:2509:G:H5'	1.87	0.74
42:BH:67:LEU:CG	42:BH:71:LEU:HD12	2.16	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:43:VAL:HG21	46:BO:52:VAL:HG11	1.67	0.74
50:BS:106:ARG:HH12	50:BS:109:GLY:N	1.85	0.74
52:BU:95:LEU:HD13	53:BV:4:ILE:HG23	1.69	0.74
56:BY:73:ARG:HB3	56:BY:80:GLY:HA2	1.69	0.74
5:AE:37:ARG:C	5:AE:38:GLN:HG2	2.11	0.74
22:AV:2:G:O2'	22:AV:3:C:C6	2.40	0.74
24:AY:332:ARG:HB2	24:AY:339:ASP:OD1	1.87	0.74
25:B0:26:TYR:HE2	35:BA:857:C:H1'	1.50	0.74
26:B1:80:LEU:HB3	26:B1:82:LEU:HD23	1.69	0.74
28:B3:46:ASN:C	28:B3:46:ASN:HD22	1.91	0.74
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.23	0.74
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.17	0.74
35:BA:2784:C:H4'	39:BE:42:ASP:OD1	1.86	0.74
42:BH:64:LEU:O	42:BH:67:LEU:HB3	1.87	0.74
45:BN:22:THR:OG1	45:BN:25:ARG:HB2	1.86	0.74
53:BV:34:GLU:HA	53:BV:58:VAL:HA	1.69	0.74
54:BW:13:SER:HB3	54:BW:16:LYS:HD2	1.69	0.74
2:AB:97:TRP:HH2	2:AB:176:GLU:HG3	1.52	0.74
4:AD:174:LEU:CD2	4:AD:185:PHE:HA	2.17	0.74
5:AE:100:VAL:O	5:AE:107:ARG:NH2	2.19	0.74
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.69	0.74
9:AI:33:PHE:HZ	9:AI:43:ALA:HB1	1.52	0.74
9:AI:70:LYS:O	9:AI:73:GLN:HB2	1.88	0.74
10:AJ:16:LEU:C	10:AJ:16:LEU:HD13	2.12	0.74
12:AL:7:ILE:HG13	12:AL:10:LEU:HD12	1.69	0.74
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.16	0.74
32:B7:40:TRP:CZ3	35:BA:459:U:H4'	2.22	0.74
35:BA:176:G:O2'	35:BA:177:G:H5'	1.87	0.74
35:BA:291:C:O2'	35:BA:292:C:H5'	1.87	0.74
35:BA:729:G:H4'	35:BA:763:G:H5'	1.68	0.74
35:BA:1007:C:H5''	45:BN:35:ARG:HH11	1.49	0.74
35:BA:1434:A:H61	35:BA:1558:A:N6	1.85	0.74
35:BA:1496:A:H2'	35:BA:1498:C:C5	2.22	0.74
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.21	0.74
35:BA:1845:G:N2	35:BA:1895:C:O2	2.19	0.74
35:BA:1915:U:C2'	35:BA:1916:A:C5'	2.66	0.74
35:BA:2456:C:H2'	35:BA:2457:U:H6	1.52	0.74
35:BA:2532:G:H8	35:BA:2532:G:O5'	1.70	0.74
35:BA:2535:G:H2'	35:BA:2536:G:H8	1.52	0.74
41:BG:71:THR:HB	41:BG:89:GLY:O	1.88	0.74
41:BG:161:THR:HG21	41:BG:172:LEU:CD1	2.16	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:48:ILE:HD12	51:BT:48:ILE:N	2.02	0.74
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.23	0.74
1:AA:839:U:O2	1:AA:839:U:H2'	1.87	0.74
8:AH:37:ARG:HH21	8:AH:41:ARG:HH22	1.33	0.74
9:AI:8:GLY:O	9:AI:76:ALA:HB1	1.87	0.74
9:AI:99:LEU:N	9:AI:99:LEU:HD22	2.02	0.74
13:AM:56:LEU:HD13	13:AM:57:ARG:N	2.02	0.74
14:AN:6:LEU:HB3	14:AN:23:ARG:NH2	2.00	0.74
15:AO:62:GLN:O	15:AO:65:ARG:HG3	1.85	0.74
17:AQ:87:LYS:O	17:AQ:91:ARG:HB2	1.86	0.74
24:AY:109:CYS:C	24:AY:137:ILE:HG23	2.13	0.74
24:AY:168:PRO:HG2	24:AY:171:TRP:HZ2	1.50	0.74
24:AY:527:ARG:HD2	24:AY:528:GLU:N	2.02	0.74
25:B0:7:LEU:HD22	48:BQ:85:LYS:HG3	1.67	0.74
35:BA:234:C:H2'	35:BA:235:U:C6	2.22	0.74
35:BA:2180:U:H6	35:BA:2181:G:C8	2.05	0.74
48:BQ:29:PHE:CE2	48:BQ:67:ARG:NH2	2.47	0.74
50:BS:15:ARG:O	50:BS:18:ILE:CD1	2.36	0.74
50:BS:54:LEU:HD22	50:BS:58:LEU:O	1.86	0.74
50:BS:106:ARG:HH11	50:BS:107:GLU:C	1.95	0.74
53:BV:3:ALA:O	53:BV:13:ARG:HA	1.87	0.74
56:BY:86:ARG:HB3	56:BY:88:LYS:HE3	1.67	0.74
2:AB:19:HIS:O	2:AB:39:ILE:HG23	1.86	0.74
5:AE:52:PRO:O	5:AE:55:VAL:HB	1.85	0.74
6:AF:12:PRO:HB3	6:AF:58:GLY:HA2	1.69	0.74
7:AG:104:LEU:O	7:AG:107:ALA:HB3	1.87	0.74
24:AY:309:PRO:O	24:AY:310:LYS:HG2	1.86	0.74
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.02	0.74
33:B8:52:LYS:O	33:B8:55:ALA:N	2.21	0.74
34:B9:6:SER:CB	35:BA:2466:C:H5''	2.17	0.74
35:BA:721:C:H3'	35:BA:722:A:C8	2.21	0.74
35:BA:1188:U:H4'	53:BV:79:VAL:HG12	1.70	0.74
35:BA:1750:G:N3	35:BA:2860:A:H2	1.85	0.74
35:BA:1952:A:C6	46:BO:22:ILE:HD12	2.22	0.74
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.52	0.74
35:BA:2801(A):A:C4'	35:BA:2802:G:H5'	2.18	0.74
38:BD:68:LYS:HA	38:BD:70:TRP:CZ3	2.22	0.74
42:BH:125:VAL:O	42:BH:127:GLU:N	2.20	0.74
45:BN:18:ALA:HB1	45:BN:21:LYS:HB3	1.68	0.74
56:BY:81:LYS:HD3	56:BY:97:ARG:O	1.86	0.74
1:AA:543:C:P	4:AD:14:ARG:HH21	2.09	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:8:LYS:HZ3	2:AB:217:ARG:CZ	2.00	0.74
19:AS:47:HIS:H	19:AS:62:ILE:HG21	1.52	0.74
24:AY:251:ILE:HD12	24:AY:252:THR:N	2.02	0.74
26:B1:3:LYS:HD3	35:BA:1364:G:OP2	1.87	0.74
35:BA:573:G:O2'	35:BA:574:C:H5'	1.88	0.74
35:BA:612:C:H2'	35:BA:613:G:C5'	2.17	0.74
35:BA:629:G:H8	35:BA:629:G:H5'	1.51	0.74
35:BA:753:C:H2'	35:BA:754:C:C6	2.22	0.74
35:BA:762:U:H5'	35:BA:763:G:N2	2.02	0.74
35:BA:862:G:H2'	35:BA:863:A:O4'	1.87	0.74
35:BA:1013:C:O2'	35:BA:1014:U:H5'	1.87	0.74
37:BC:45:ALA:HB3	37:BC:171:ILE:CG2	2.17	0.74
38:BD:148:GLU:HB3	38:BD:149:PRO:HD2	1.69	0.74
39:BE:198:VAL:HG12	39:BE:199:ARG:N	2.02	0.74
47:BP:40:SER:O	47:BP:41:ARG:HD2	1.87	0.74
57:BZ:116:VAL:O	57:BZ:174:VAL:HG13	1.88	0.74
1:AA:172:A:H8	1:AA:172:A:H5''	1.51	0.74
1:AA:594:G:H2'	1:AA:595:G:O4'	1.87	0.74
1:AA:737:A:H2'	1:AA:738:C:C6	2.22	0.74
1:AA:1457:G:H2'	1:AA:1458:G:C8	2.22	0.74
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.02	0.74
9:AI:82:ALA:HB1	9:AI:96:LEU:HD21	1.69	0.74
19:AS:63:THR:HG23	19:AS:65:ASN:H	1.52	0.74
21:AU:12:LYS:HB3	21:AU:17:THR:O	1.86	0.74
24:AY:114:ASP:O	24:AY:118:GLY:HA2	1.87	0.74
24:AY:304:GLN:HB3	24:AY:314:ARG:O	1.86	0.74
32:B7:1:MET:O	32:B7:2:LYS:O	2.06	0.74
33:B8:13:ARG:HH12	47:BP:59:LEU:HD23	1.51	0.74
35:BA:61:G:H2'	35:BA:62:C:C6	2.23	0.74
35:BA:1526:G:H2'	35:BA:1527:G:C8	2.23	0.74
35:BA:1590:U:C2'	35:BA:1591:G:H5''	2.16	0.74
35:BA:2826:A:H2'	35:BA:2827:C:H6	1.52	0.74
39:BE:98:PRO:HD3	39:BE:175:VAL:HG12	1.69	0.74
55:BX:12:VAL:HG23	55:BX:13:LEU:H	1.48	0.74
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.70	0.74
1:AA:1106:G:O2'	1:AA:1107:C:H5'	1.88	0.74
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.53	0.74
4:AD:13:ARG:HD2	4:AD:38:TYR:O	1.88	0.74
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	1.88	0.74
10:AJ:50:ILE:HG12	14:AN:41:ARG:HD2	1.68	0.74
16:AP:72:ARG:HG2	16:AP:73:LEU:HG	1.67	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:223:LEU:HG	42:BH:97:ARG:NH1	2.01	0.74
29:B4:35:VAL:HG12	29:B4:36:CYS:N	2.02	0.74
30:B5:25:LEU:CD1	54:BW:23:LEU:HD22	2.14	0.74
34:B9:7:VAL:HG13	34:B9:34:GLN:CG	2.17	0.74
35:BA:242:G:H1'	35:BA:243:U:H5	1.53	0.74
35:BA:796:C:H2'	35:BA:797:C:C6	2.22	0.74
38:BD:111:LEU:HD11	38:BD:115:GLN:HE21	1.52	0.74
46:BO:63:VAL:HG22	46:BO:84:ALA:HA	1.69	0.74
48:BQ:20:ALA:O	48:BQ:98:LYS:HB3	1.87	0.74
48:BQ:133:ARG:HG2	48:BQ:134:ARG:N	1.99	0.74
1:AA:80:G:C3'	1:AA:81:U:H5'	2.17	0.74
1:AA:635:G:O2'	1:AA:636:U:H5'	1.88	0.74
22:AV:26:G:H22	22:AV:44:A:H61	1.35	0.74
35:BA:957:A:C2	35:BA:2459:A:H5'	2.22	0.74
35:BA:1013:C:C2'	35:BA:1014:U:H5'	2.18	0.74
35:BA:1155:A:P	52:BU:55:ARG:HE	2.10	0.74
35:BA:2574:G:H2'	35:BA:2575:C:O4'	1.88	0.74
38:BD:111:LEU:HD12	38:BD:112:GLN:H	1.51	0.74
38:BD:226:MET:CE	38:BD:230:ASP:HB3	2.17	0.74
40:BF:195:ASP:HB3	40:BF:198:ALA:HB3	1.70	0.74
42:BH:35:VAL:CG1	42:BH:72:ILE:HD11	2.18	0.74
49:BR:94:TYR:N	49:BR:94:TYR:CD1	2.46	0.74
49:BR:116:LEU:O	49:BR:117:VAL:HG12	1.88	0.74
57:BZ:111:VAL:HA	57:BZ:115:GLY:HA3	1.69	0.74
57:BZ:119:GLU:HG3	57:BZ:122:ARG:CD	2.18	0.74
57:BZ:150:LEU:O	57:BZ:171:ILE:HG12	1.87	0.74
1:AA:981:U:H2'	1:AA:982:U:H5	1.49	0.74
17:AQ:3:LYS:HB2	17:AQ:60:ILE:HD11	1.70	0.74
21:AU:23:PRO:O	21:AU:25:LYS:N	2.20	0.74
24:AY:420:SER:OG	24:AY:426:GLN:HA	1.87	0.74
35:BA:44:G:H2'	35:BA:215:G:C8	2.23	0.74
35:BA:263:C:H4'	35:BA:430:G:O4'	1.87	0.74
35:BA:950:G:H2'	35:BA:951:C:H6	1.51	0.74
35:BA:1140:C:H5'	35:BA:1141:U:OP2	1.88	0.74
35:BA:2111:C:N3	35:BA:2147:G:N2	2.35	0.74
37:BC:22:ILE:CD1	37:BC:190:ARG:HG2	2.18	0.74
38:BD:24:ILE:HD13	38:BD:83:GLU:C	2.13	0.74
38:BD:181:GLU:CB	38:BD:272:ALA:HB1	2.18	0.74
41:BG:71:THR:HG22	41:BG:72:ARG:N	2.01	0.74
56:BY:87:LYS:C	56:BY:88:LYS:HD2	2.13	0.74
1:AA:551:U:O2'	1:AA:552:U:H5'	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.02	0.73
5:AE:92:LYS:O	5:AE:118:ILE:HG13	1.87	0.73
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	2.03	0.73
22:AV:57:A:O2'	22:AV:58:A:H5'	1.88	0.73
24:AY:146:ARG:NH2	35:BA:2654:A:OP1	2.21	0.73
24:AY:295:LYS:O	24:AY:323:GLY:HA3	1.88	0.73
24:AY:299:PHE:N	24:AY:299:PHE:CD2	2.53	0.73
27:B2:25:VAL:HG22	27:B2:60:LEU:CD1	2.14	0.73
35:BA:81:G:N2	56:BY:2:ARG:HH12	1.84	0.73
35:BA:1423:G:H2'	35:BA:1424:G:C8	2.21	0.73
35:BA:1655:A:H4'	39:BE:115:GLY:N	2.02	0.73
35:BA:2126:A:N6	35:BA:2163:C:H4'	2.02	0.73
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.52	0.73
35:BA:2894:G:N3	35:BA:2894:G:H2'	2.03	0.73
38:BD:26:LYS:HZ2	38:BD:113:VAL:HG21	1.47	0.73
38:BD:92:ILE:HG22	38:BD:106:ILE:CA	2.14	0.73
40:BF:110:LEU:HD22	40:BF:183:VAL:CG1	2.18	0.73
41:BG:44:GLY:O	41:BG:47:LYS:HE2	1.88	0.73
47:BP:47:ASP:CG	47:BP:49:ARG:H	1.95	0.73
51:BT:108:ARG:C	51:BT:110:ILE:N	2.41	0.73
51:BT:132:LYS:C	51:BT:134:GLU:H	1.96	0.73
57:BZ:20:ARG:HH11	57:BZ:20:ARG:CB	2.01	0.73
2:AB:152:PHE:O	2:AB:153:ARG:HG2	1.88	0.73
5:AE:41:VAL:HG23	5:AE:67:VAL:CG1	2.18	0.73
15:AO:68:ARG:CD	15:AO:72:ARG:HE	2.00	0.73
18:AR:43:PHE:O	18:AR:51:LEU:HD12	1.87	0.73
24:AY:198:GLY:C	24:AY:262:ASN:HD21	1.96	0.73
29:B4:28:LYS:HA	29:B4:28:LYS:HE3	1.70	0.73
32:B7:44:PRO:HG2	35:BA:465:G:H5''	1.68	0.73
35:BA:404:C:H4'	35:BA:405:U:H5'	1.68	0.73
35:BA:861:A:C2	35:BA:862:G:C1'	2.71	0.73
35:BA:861:A:C2	35:BA:862:G:H1'	2.23	0.73
35:BA:1438:U:C5	35:BA:1552:G:N2	2.56	0.73
35:BA:1537:G:H2'	35:BA:1538:G:H8	1.53	0.73
36:BB:41:U:H3	41:BG:70:VAL:HB	1.53	0.73
37:BC:47:LEU:HD11	37:BC:171:ILE:CD1	2.18	0.73
37:BC:139:ASN:OD1	37:BC:140:PRO:HD2	1.89	0.73
38:BD:268:ARG:H	38:BD:270:ILE:CD1	2.00	0.73
40:BF:175:THR:O	40:BF:176:LEU:HD12	1.87	0.73
42:BH:87:LEU:CD2	42:BH:162:ILE:HD11	2.18	0.73
48:BQ:106:VAL:HG21	48:BQ:114:ALA:HB1	1.68	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:38:VAL:CG2	49:BR:110:PRO:HB2	2.18	0.73
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.70	0.73
3:AC:9:GLY:O	3:AC:12:LEU:HG	1.88	0.73
9:AI:55:ALA:HB1	9:AI:59:PHE:CE2	2.23	0.73
13:AM:75:ALA:HA	13:AM:78:ILE:HB	1.67	0.73
13:AM:88:ARG:CG	13:AM:98:VAL:HG11	2.18	0.73
22:AV:2:G:O2'	22:AV:3:C:H6	1.71	0.73
24:AY:223:LEU:CG	42:BH:97:ARG:HH12	2.00	0.73
35:BA:689:A:O2'	35:BA:690:G:H5'	1.88	0.73
35:BA:1786:A:C5	35:BA:1938:A:C2	2.76	0.73
37:BC:156:ILE:HA	37:BC:160:ARG:CB	2.16	0.73
38:BD:31:LYS:HG2	38:BD:33:LEU:CD2	2.17	0.73
38:BD:117:VAL:HG22	38:BD:129:ASN:OD1	1.87	0.73
42:BH:105:LEU:O	42:BH:105:LEU:HD23	1.87	0.73
46:BO:21:CYS:HA	46:BO:41:ALA:CB	2.18	0.73
57:BZ:24:LEU:HD12	57:BZ:41:LEU:HA	1.71	0.73
2:AB:220:ASP:HA	2:AB:223:ILE:CD1	2.14	0.73
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.01	0.73
5:AE:87:SER:CB	5:AE:130:ASN:HB3	2.18	0.73
18:AR:66:LEU:O	18:AR:70:ILE:HG13	1.89	0.73
22:AV:17:C:H3'	22:AV:17(A):U:C5'	2.17	0.73
24:AY:347:THR:HG21	24:AY:357:GLU:OE2	1.88	0.73
35:BA:2822:G:H2'	35:BA:2823:A:H5''	1.71	0.73
35:BA:2823:A:H2'	35:BA:2824:C:C6	2.24	0.73
36:BB:94:C:H2'	36:BB:95:C:C6	2.23	0.73
39:BE:76:ARG:O	39:BE:77:ILE:O	2.06	0.73
39:BE:105:THR:HG22	39:BE:106:GLY:H	1.52	0.73
40:BF:131:GLY:HA2	40:BF:138:GLU:HB3	1.69	0.73
46:BO:22:ILE:HB	46:BO:40:VAL:O	1.88	0.73
51:BT:9:LEU:O	51:BT:12:SER:HB2	1.88	0.73
2:AB:68:ILE:H	2:AB:90:MET:HE3	1.53	0.73
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.70	0.73
3:AC:114:PRO:O	3:AC:118:GLN:HG3	1.88	0.73
6:AF:4:TYR:CE1	6:AF:92:LYS:HG3	2.23	0.73
6:AF:79:LEU:O	6:AF:85:VAL:HG11	1.88	0.73
8:AH:119:LEU:HD22	8:AH:123:GLU:HB3	1.70	0.73
12:AL:20:LYS:HD3	12:AL:20:LYS:H	1.54	0.73
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.03	0.73
17:AQ:13:ASP:C	17:AQ:15:MET:H	1.95	0.73
17:AQ:59:ILE:HD13	17:AQ:73:VAL:HA	1.69	0.73
24:AY:151:PRO:HA	24:AY:154:LEU:CD1	2.19	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:181:GLY:CA	24:AY:263:PHE:CZ	2.67	0.73
30:B5:6:VAL:HG23	35:BA:2015:A:C2	2.23	0.73
30:B5:13:LYS:HA	30:B5:16:ARG:CB	2.19	0.73
30:B5:45:VAL:HG22	30:B5:51:TYR:CE1	2.23	0.73
33:B8:62:LEU:HD22	35:BA:242:G:C5'	2.18	0.73
35:BA:21:A:O2'	35:BA:22:C:H5'	1.88	0.73
35:BA:534:U:O2'	52:BU:49:HIS:HD2	1.72	0.73
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.18	0.73
37:BC:141:LYS:NZ	37:BC:164:ARG:NH2	2.36	0.73
38:BD:79:VAL:HG21	38:BD:115:GLN:HB2	1.70	0.73
41:BG:144:ILE:O	41:BG:144:ILE:HG23	1.87	0.73
42:BH:98:LEU:HB3	42:BH:125:VAL:HG21	1.70	0.73
46:BO:86:ILE:CG2	46:BO:94:ARG:HG3	2.06	0.73
47:BP:71:VAL:N	47:BP:72:PRO:HD3	2.04	0.73
47:BP:106:LEU:HD11	47:BP:112:LEU:HG	1.70	0.73
50:BS:42:ASP:O	50:BS:43:GLU:HB3	1.88	0.73
54:BW:29:LEU:O	54:BW:33:ARG:HG3	1.89	0.73
57:BZ:29:TYR:O	57:BZ:30:ASN:HB3	1.87	0.73
1:AA:310:G:H2'	1:AA:311:C:C6	2.23	0.73
24:AY:109:CYS:O	24:AY:137:ILE:CA	2.36	0.73
35:BA:1275:A:N6	49:BR:16:HIS:HA	2.03	0.73
35:BA:1695:G:C2'	35:BA:1696:G:H5'	2.18	0.73
35:BA:1926:U:O2	35:BA:1926:U:H2'	1.86	0.73
39:BE:26:ILE:HG13	39:BE:182:LEU:HB3	1.69	0.73
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.52	0.73
53:BV:58:VAL:HG12	53:BV:59:ALA:N	2.02	0.73
57:BZ:18:LEU:H	57:BZ:18:LEU:CD2	2.01	0.73
57:BZ:91:LEU:HD22	57:BZ:130:PRO:HB3	1.70	0.73
1:AA:16:A:H2'	1:AA:17:U:H5'	1.71	0.73
1:AA:108:G:H5'	1:AA:109:A:C5'	2.18	0.73
1:AA:194:C:C2'	1:AA:195:A:H5''	2.17	0.73
1:AA:1323:G:H4'	1:AA:1363:C:C2	2.24	0.73
24:AY:225:GLN:O	24:AY:228:ARG:HB3	1.88	0.73
26:B1:73:LEU:HD22	26:B1:94:LEU:HB3	1.71	0.73
34:B9:26:ILE:HG22	34:B9:27:CYS:N	2.01	0.73
35:BA:1747:G:H2'	35:BA:1747(A):G:C8	2.21	0.73
35:BA:1820:U:C5	38:BD:202:LYS:HD3	2.23	0.73
35:BA:1840:G:H1	35:BA:1902:C:N4	1.85	0.73
51:BT:4:GLY:O	51:BT:7:ILE:HB	1.89	0.73
57:BZ:79:ARG:O	57:BZ:81:ARG:N	2.21	0.73
1:AA:621:A:H2'	1:AA:622:A:C8	2.23	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:872:A:O2'	1:AA:873:A:H3'	1.87	0.73
1:AA:1191:A:C2	1:AA:1192:C:C4	2.76	0.73
2:AB:102:LEU:O	2:AB:105:PHE:HB2	1.88	0.73
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.18	0.73
2:AB:229:VAL:HG12	2:AB:230:VAL:N	2.03	0.73
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.03	0.73
24:AY:80:HIS:CD2	24:AY:273:VAL:HG21	2.23	0.73
25:B0:43:THR:CG2	35:BA:2332:U:H5'	2.18	0.73
35:BA:145:G:C3'	35:BA:146:G:H5''	2.19	0.73
35:BA:957:A:N1	35:BA:2458:G:H4'	2.03	0.73
35:BA:1266:G:N2	35:BA:2012:G:H2'	2.03	0.73
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.23	0.73
35:BA:1932:A:H2'	35:BA:1933:G:O4'	1.89	0.73
35:BA:2108:C:H2'	35:BA:2108:C:O2	1.87	0.73
35:BA:2678:C:H2'	35:BA:2679:A:O4'	1.88	0.73
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	1.99	0.73
36:BB:80:U:H2'	36:BB:81:G:H21	1.52	0.73
38:BD:6:PHE:HD2	38:BD:17:THR:HA	1.52	0.73
42:BH:102:ALA:HA	42:BH:115:VAL:O	1.89	0.73
47:BP:7:ARG:HH11	47:BP:7:ARG:CA	1.99	0.73
50:BS:29:PHE:HD1	50:BS:29:PHE:C	1.95	0.73
52:BU:96:ALA:C	52:BU:98:LEU:H	1.97	0.73
56:BY:13:VAL:HG13	56:BY:14:LEU:N	2.02	0.73
1:AA:668:G:H4'	15:AO:48:LYS:HB2	1.70	0.73
1:AA:735:C:H2'	1:AA:736:C:H6	1.53	0.73
5:AE:6:PHE:HB3	5:AE:35:GLY:O	1.87	0.73
21:AU:10:ARG:O	21:AU:13:ILE:HB	1.89	0.73
24:AY:138:LEU:HD12	24:AY:268:MET:HE3	1.70	0.73
34:B9:16:VAL:HG11	35:BA:1032:A:H4'	1.71	0.73
35:BA:847:U:OP2	35:BA:928:G:O6	2.07	0.73
35:BA:1155:A:HO2'	35:BA:1156:A:H2'	1.53	0.73
35:BA:1218:C:H2'	35:BA:1219:G:H5'	1.70	0.73
35:BA:1344:G:H4'	35:BA:1384:A:N7	2.03	0.73
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.89	0.73
37:BC:180:PHE:HD2	37:BC:184:LYS:HG3	1.53	0.73
38:BD:35:LYS:HG2	38:BD:63:ARG:CG	2.19	0.73
38:BD:247:ALA:HB1	38:BD:253:GLN:HA	1.71	0.73
45:BN:63:THR:HB	45:BN:66:LYS:NZ	2.04	0.73
50:BS:49:VAL:O	50:BS:50:SER:HB3	1.87	0.73
52:BU:28:ARG:HD3	52:BU:38:THR:CG2	2.19	0.73
53:BV:28:GLU:O	53:BV:61:VAL:HG21	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:15:VAL:HG12	56:BY:15:VAL:O	1.88	0.73
56:BY:23:ARG:HH11	56:BY:23:ARG:HG2	1.54	0.73
1:AA:589:C:H1'	1:AA:653:A:H61	1.54	0.73
1:AA:624:C:H2'	1:AA:625:G:C8	2.23	0.73
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.54	0.73
12:AL:109:GLY:CA	12:AL:121:GLY:HA3	2.18	0.73
16:AP:2:VAL:O	16:AP:64:ALA:HA	1.89	0.73
24:AY:13:ARG:CD	24:AY:363:ASP:OD2	2.37	0.73
24:AY:399:ARG:HA	24:AY:466:VAL:HG22	1.71	0.73
28:B3:4:LEU:O	28:B3:36:VAL:HA	1.89	0.73
35:BA:566:U:H2'	35:BA:567:A:O4'	1.89	0.73
35:BA:621:A:H2'	35:BA:622:G:C5'	2.19	0.73
35:BA:1448:G:H2'	35:BA:1449:A:H8	1.54	0.73
35:BA:2562:U:H2'	35:BA:2563:U:H5'	1.71	0.73
35:BA:2577:A:H5''	35:BA:2578:G:H5'	1.70	0.73
37:BC:59:ARG:NE	37:BC:142:ALA:HB2	2.04	0.73
40:BF:181:LEU:HD11	40:BF:186:ILE:CD1	2.19	0.73
42:BH:94:TYR:HB3	42:BH:107:VAL:CB	2.19	0.73
45:BN:75:TYR:HB2	45:BN:82:LEU:HD12	1.70	0.73
47:BP:7:ARG:HA	47:BP:7:ARG:NH1	2.01	0.73
51:BT:131:ALA:C	51:BT:133:GLU:H	1.94	0.73
52:BU:9:VAL:HG23	52:BU:10:ARG:H	1.53	0.73
56:BY:84:ARG:HG2	56:BY:85:VAL:H	1.52	0.73
1:AA:19:C:OP1	5:AE:127:ASN:HB3	1.89	0.72
1:AA:29:G:O2'	1:AA:30:U:H5'	1.89	0.72
1:AA:122:G:H2'	1:AA:123:C:C6	2.24	0.72
7:AG:79:ARG:HD3	7:AG:82:GLY:HA2	1.71	0.72
13:AM:23:TYR:HB3	13:AM:67:GLU:HB2	1.71	0.72
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.53	0.72
24:AY:103:LEU:O	24:AY:105:ALA:N	2.22	0.72
28:B3:4:LEU:HB2	28:B3:37:LEU:O	1.89	0.72
35:BA:1345:C:H4'	35:BA:1396:U:C4	2.24	0.72
35:BA:1466:G:H5'	35:BA:1467:C:OP1	1.88	0.72
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.19	0.72
35:BA:1894:C:H2'	35:BA:1895:C:H5''	1.69	0.72
35:BA:2715:C:H2'	35:BA:2716:U:H6	1.52	0.72
38:BD:27:THR:OG1	38:BD:83:GLU:HG2	1.88	0.72
51:BT:93:ARG:HG2	51:BT:117:ASP:HB2	1.71	0.72
1:AA:403:C:H4'	4:AD:122:ARG:NH2	2.05	0.72
1:AA:1152:A:H5'	10:AJ:70:ARG:NH2	2.04	0.72
1:AA:1318:A:N3	19:AS:37:ARG:NH2	2.37	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:44:LEU:O	2:AB:47:THR:CB	2.37	0.72
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.69	0.72
2:AB:193:ASP:OD1	2:AB:193:ASP:C	2.31	0.72
4:AD:12:CYS:SG	4:AD:19:LEU:HB3	2.29	0.72
4:AD:59:ARG:HA	4:AD:59:ARG:NH1	2.03	0.72
8:AH:54:ASP:O	8:AH:56:LYS:HG3	1.89	0.72
8:AH:122:ARG:O	8:AH:125:ARG:HB3	1.89	0.72
26:B1:86:SER:OG	26:B1:89:GLU:HB2	1.89	0.72
30:B5:28:PRO:HD2	54:BW:35:ILE:HG23	1.71	0.72
35:BA:1755:A:O2'	35:BA:1756:G:H5'	1.89	0.72
35:BA:2007:C:H5'	35:BA:2824:C:H1'	1.70	0.72
38:BD:70:TRP:CD1	38:BD:70:TRP:O	2.42	0.72
42:BH:98:LEU:HD12	42:BH:99:VAL:N	2.04	0.72
50:BS:62:LYS:H	50:BS:65:VAL:HG23	1.53	0.72
52:BU:92:ARG:HH22	53:BV:10:LYS:HG2	1.54	0.72
1:AA:412:A:H5'	1:AA:413:G:OP1	1.90	0.72
1:AA:1242:C:O2'	1:AA:1243:C:H5'	1.89	0.72
3:AC:14:ILE:O	3:AC:14:ILE:HG12	1.87	0.72
5:AE:41:VAL:HG23	5:AE:67:VAL:HG12	1.69	0.72
6:AF:5:GLU:N	6:AF:91:VAL:O	2.22	0.72
19:AS:55:LYS:HG2	19:AS:56:GLN:HE21	1.52	0.72
24:AY:369:ASN:CB	24:AY:373:ILE:HG13	2.19	0.72
26:B1:53:VAL:HG22	26:B1:74:VAL:HG13	1.71	0.72
27:B2:38:GLN:O	27:B2:41:ILE:HG12	1.89	0.72
35:BA:122:G:H2'	35:BA:123:G:C8	2.24	0.72
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.24	0.72
35:BA:2469:A:O2'	48:BQ:56:ARG:HD2	1.89	0.72
47:BP:147:LEU:O	47:BP:148:LEU:HB2	1.87	0.72
48:BQ:31:ASP:HB2	48:BQ:107:ALA:HA	1.71	0.72
57:BZ:40:ASP:OD1	57:BZ:42:VAL:HG12	1.89	0.72
1:AA:191:G:H1'	20:AT:105:SER:HB3	1.72	0.72
1:AA:441:A:H3'	1:AA:442:C:C6	2.24	0.72
1:AA:633:G:H5'	1:AA:634:C:OP2	1.89	0.72
1:AA:729:A:N6	15:AO:51:HIS:NE2	2.37	0.72
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.24	0.72
2:AB:148:TYR:O	2:AB:149:LEU:HD23	1.89	0.72
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.20	0.72
14:AN:60:SER:O	14:AN:61:TRP:HB3	1.88	0.72
24:AY:184:HIS:NE2	24:AY:267:HIS:HB3	2.04	0.72
24:AY:412:LEU:HD23	24:AY:436:LEU:HD12	1.70	0.72
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.23	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:497:A:H2'	35:BA:498:G:H8	1.54	0.72
35:BA:918:A:C6	35:BA:919:G:H1'	2.24	0.72
35:BA:2523:G:O4'	35:BA:2765:A:C8	2.42	0.72
35:BA:2722:G:O2'	49:BR:5:LYS:HB3	1.88	0.72
37:BC:6:ARG:NH2	37:BC:10:LEU:HD23	2.04	0.72
37:BC:45:ALA:HB3	37:BC:171:ILE:HG22	1.71	0.72
37:BC:47:LEU:HD11	37:BC:171:ILE:CB	2.18	0.72
51:BT:89:VAL:HG12	51:BT:91:ARG:HG3	1.70	0.72
51:BT:100:TYR:O	51:BT:103:ARG:HG3	1.88	0.72
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.24	0.72
1:AA:1321:C:H5'	1:AA:1322:C:H5''	1.71	0.72
3:AC:42:LEU:HD23	3:AC:43:LEU:HD21	1.70	0.72
4:AD:58:LEU:CD1	4:AD:59:ARG:HH12	2.02	0.72
5:AE:87:SER:OG	5:AE:131:ILE:HD13	1.90	0.72
5:AE:129:ILE:N	5:AE:129:ILE:CD1	2.50	0.72
14:AN:24:CYS:HB3	14:AN:27:CYS:O	1.89	0.72
20:AT:88:VAL:O	20:AT:92:LEU:HG	1.88	0.72
25:B0:50:ASN:C	25:B0:62:LEU:HD21	2.13	0.72
31:B6:45:LYS:N	31:B6:45:LYS:HD3	2.05	0.72
38:BD:133:LEU:HD21	38:BD:191:ALA:HB2	1.72	0.72
38:BD:206:LEU:CB	38:BD:211:ARG:HG2	2.20	0.72
39:BE:67:PHE:HD1	39:BE:68:ALA:N	1.88	0.72
41:BG:109:VAL:CG1	41:BG:142:PRO:HD3	2.18	0.72
47:BP:123:LEU:HD23	47:BP:123:LEU:N	2.04	0.72
48:BQ:120:ILE:O	48:BQ:123:HIS:N	2.22	0.72
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.54	0.72
1:AA:1321:C:H5'	1:AA:1322:C:H5'	1.71	0.72
2:AB:30:ARG:HG3	2:AB:31:TYR:H	1.54	0.72
4:AD:175:SER:HG	4:AD:184:LYS:HB2	1.54	0.72
5:AE:63:ARG:O	5:AE:64:ARG:HB2	1.90	0.72
11:AK:30:VAL:HG21	11:AK:68:ALA:CB	2.17	0.72
22:AV:14:A:H2'	22:AV:15:G:O4'	1.90	0.72
24:AY:356:VAL:O	24:AY:357:GLU:HB2	1.87	0.72
24:AY:387:PHE:H	24:AY:387:PHE:HD1	1.37	0.72
24:AY:443:VAL:HG23	24:AY:444:LEU:HD22	1.70	0.72
33:B8:6:THR:O	33:B8:8:LYS:N	2.22	0.72
35:BA:568:U:H5'	35:BA:945:A:N6	2.04	0.72
35:BA:852:G:H2'	35:BA:853:G:C8	2.25	0.72
35:BA:1311:G:H21	35:BA:1603:A:H62	1.37	0.72
35:BA:1796:U:H2'	35:BA:1797:C:H6	1.52	0.72
35:BA:1817:G:O2'	35:BA:1818:U:H5'	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:128:GLY:H	38:BD:193:VAL:HG13	1.53	0.72
39:BE:176:ILE:HB	39:BE:181:LEU:HB2	1.70	0.72
40:BF:156:LEU:HD12	40:BF:157:VAL:H	1.52	0.72
42:BH:126:PRO:O	42:BH:127:GLU:HB2	1.90	0.72
47:BP:112:LEU:H	47:BP:128:HIS:HD2	1.35	0.72
53:BV:31:ALA:O	53:BV:61:VAL:HG22	1.88	0.72
54:BW:1:MET:HG3	54:BW:64:MET:HE3	1.70	0.72
57:BZ:141:VAL:HG13	57:BZ:144:LEU:HB2	1.72	0.72
1:AA:669:U:O2'	1:AA:670:G:H5'	1.89	0.72
1:AA:863:U:O2'	1:AA:865:A:N7	2.20	0.72
1:AA:1240:U:O2'	7:AG:32:ARG:NH1	2.22	0.72
1:AA:1377:A:P	7:AG:94:ARG:NH2	2.63	0.72
2:AB:17:PHE:C	2:AB:17:PHE:CD1	2.65	0.72
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.72	0.72
4:AD:96:LEU:HD23	4:AD:139:ARG:NH1	2.05	0.72
4:AD:102:ASP:CB	4:AD:121:VAL:HG21	2.19	0.72
11:AK:38:ASN:N	11:AK:38:ASN:ND2	2.34	0.72
14:AN:40:CYS:O	14:AN:42:ILE:N	2.23	0.72
15:AO:17:ARG:NH1	15:AO:17:ARG:HB3	2.04	0.72
23:AX:12:A:H3'	23:AX:12:A:N3	2.04	0.72
24:AY:106:VAL:HG22	24:AY:108:CYS:H	1.54	0.72
33:B8:8:LYS:HZ2	33:B8:11:LYS:HE2	1.54	0.72
33:B8:17:THR:OG1	33:B8:21:LYS:HB2	1.89	0.72
35:BA:2111:C:N3	35:BA:2145:C:H2'	2.05	0.72
36:BB:104:U:O2'	57:BZ:72:ARG:HG3	1.90	0.72
38:BD:117:VAL:HG21	38:BD:128:GLY:CA	2.20	0.72
40:BF:157:VAL:HG22	40:BF:193:VAL:O	1.90	0.72
41:BG:39:ILE:HA	41:BG:156:ASP:O	1.90	0.72
41:BG:113:ARG:HA	41:BG:113:ARG:NE	2.04	0.72
45:BN:3:THR:CG2	45:BN:5:VAL:HG23	2.19	0.72
47:BP:62:LEU:CD2	47:BP:62:LEU:H	2.01	0.72
48:BQ:27:VAL:HG21	48:BQ:134:ARG:HG3	1.70	0.72
51:BT:32:TYR:HB3	51:BT:81:PRO:CB	2.19	0.72
52:BU:114:LYS:HA	52:BU:117:GLN:HB2	1.71	0.72
57:BZ:33:LEU:HD11	57:BZ:35:ARG:HB2	1.71	0.72
57:BZ:57:ILE:HD12	57:BZ:57:ILE:N	2.05	0.72
57:BZ:63:ASP:O	57:BZ:65:GLN:HG3	1.90	0.72
1:AA:594:G:O2'	1:AA:595:G:H5'	1.89	0.72
1:AA:778:G:O2'	1:AA:779:C:H5'	1.90	0.72
1:AA:805:C:O2'	1:AA:806:C:H5'	1.90	0.72
2:AB:14:GLY:C	2:AB:15:VAL:HG22	2.13	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:81:GLY:O	3:AC:85:ARG:HD3	1.90	0.72
4:AD:100:ARG:O	4:AD:103:ASN:HB3	1.90	0.72
5:AE:31:LEU:HD21	5:AE:43:LEU:HD11	1.70	0.72
11:AK:48:ILE:HD11	11:AK:64:ALA:HA	1.70	0.72
32:B7:24:THR:H	32:B7:28:ARG:CZ	2.02	0.72
35:BA:307:G:H2'	35:BA:309:G:OP2	1.90	0.72
35:BA:720:C:C4	35:BA:721:C:H1'	2.25	0.72
35:BA:755:C:H2'	35:BA:756:C:C6	2.25	0.72
35:BA:1441:G:H2'	35:BA:1442:G:C8	2.25	0.72
35:BA:2324:C:O2	35:BA:2385:C:H5	1.73	0.72
38:BD:24:ILE:CD1	38:BD:84:TYR:HA	2.20	0.72
38:BD:62:TYR:HE1	38:BD:64:ILE:HA	1.55	0.72
1:AA:1269:A:H2	1:AA:1312:G:H21	1.35	0.72
3:AC:82:GLU:O	3:AC:85:ARG:HB2	1.89	0.72
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.71	0.72
24:AY:389:GLY:O	24:AY:390:ILE:HG13	1.90	0.72
24:AY:395:PRO:HB2	24:AY:440:ALA:N	2.05	0.72
33:B8:13:ARG:HD3	47:BP:61:ARG:HD3	1.69	0.72
35:BA:442:G:H4'	40:BF:46:ARG:HB2	1.71	0.72
35:BA:1846:G:N2	35:BA:1847:A:N1	2.38	0.72
35:BA:2290:G:H2'	35:BA:2291:U:O4'	1.90	0.72
35:BA:2307:G:H21	35:BA:2308:G:H5'	1.53	0.72
35:BA:2450:A:C2	35:BA:2451:A:C4	2.77	0.72
35:BA:2603:G:N2	35:BA:2604:U:H1'	2.04	0.72
38:BD:182:LEU:O	38:BD:271:ILE:HG12	1.90	0.72
39:BE:132:HIS:HA	39:BE:135:HIS:HE1	1.54	0.72
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.54	0.72
42:BH:124:GLU:C	42:BH:126:PRO:HD3	2.14	0.72
52:BU:61:TRP:CZ3	52:BU:94:ASN:HB2	2.24	0.72
55:BX:29:TRP:HZ3	55:BX:59:VAL:HG21	1.55	0.72
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.51	0.72
2:AB:145:LEU:HD13	2:AB:149:LEU:HD12	1.71	0.72
2:AB:179:LYS:HA	8:AH:72:PRO:HD3	1.72	0.72
2:AB:235:SER:O	2:AB:237:ALA:N	2.22	0.72
4:AD:155:LEU:HB2	4:AD:158:ILE:HG12	1.70	0.72
5:AE:145:LYS:O	5:AE:149:GLU:HG2	1.89	0.72
11:AK:52:GLY:H	11:AK:55:LYS:HE2	1.53	0.72
24:AY:74:VAL:HG11	24:AY:317:PHE:CE2	2.24	0.72
24:AY:308:ASP:N	24:AY:309:PRO:CD	2.48	0.72
24:AY:325:TYR:HE2	24:AY:357:GLU:OE2	1.73	0.72
29:B4:24:THR:HG21	41:BG:104:GLU:OE2	1.90	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:532:A:H2'	35:BA:532:A:N3	2.05	0.72
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.37	0.72
35:BA:1291:C:H2'	35:BA:1292:U:H5'	1.69	0.72
35:BA:1428:C:C4	35:BA:1569:A:H5''	2.25	0.72
35:BA:1915:U:H2'	35:BA:1916:A:O5'	1.88	0.72
35:BA:1922:G:C2'	35:BA:1923:U:C5'	2.68	0.72
35:BA:1977:A:O2'	35:BA:1978:A:H5'	1.88	0.72
35:BA:2125:G:N2	35:BA:2173:A:H61	1.87	0.72
49:BR:117:VAL:O	49:BR:118:GLU:HB2	1.88	0.72
1:AA:759:A:H1'	12:AL:12:ARG:HH22	1.54	0.71
1:AA:1091:U:C2	1:AA:1095:U:N3	2.57	0.71
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.72	0.71
2:AB:87:ARG:HH12	2:AB:219:VAL:HB	1.54	0.71
9:AI:79:LEU:HD13	9:AI:79:LEU:O	1.89	0.71
11:AK:57:THR:OG1	11:AK:58:PRO:HD2	1.90	0.71
15:AO:70:LEU:HB3	15:AO:78:TYR:HB2	1.70	0.71
24:AY:28:THR:OG1	58:AY:1000:GCP:H5'1	1.90	0.71
24:AY:412:LEU:C	24:AY:414:LYS:H	1.98	0.71
25:B0:11:ARG:HH11	25:B0:11:ARG:CB	2.03	0.71
25:B0:20:ARG:HH22	35:BA:2271:G:H4'	1.55	0.71
26:B1:80:LEU:HB3	26:B1:82:LEU:CD2	2.20	0.71
35:BA:603:A:H1'	35:BA:604:G:OP2	1.89	0.71
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.19	0.71
35:BA:1892:C:C2'	35:BA:1893:C:H5'	2.15	0.71
35:BA:2278:A:OP1	48:BQ:11:LYS:HG3	1.89	0.71
38:BD:208:LYS:HG3	38:BD:210:GLY:N	2.04	0.71
41:BG:56:ALA:O	41:BG:59:GLU:HG2	1.90	0.71
47:BP:112:LEU:HD22	47:BP:113:LYS:N	2.05	0.71
48:BQ:133:ARG:HH11	48:BQ:133:ARG:CB	2.02	0.71
1:AA:390:C:H2'	1:AA:391:G:H8	1.54	0.71
1:AA:719:C:O2	18:AR:50:ILE:HG12	1.89	0.71
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.55	0.71
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.03	0.71
3:AC:139:GLN:NE2	3:AC:143:GLU:HB2	2.05	0.71
10:AJ:64:GLU:CG	14:AN:59:ALA:HA	2.20	0.71
16:AP:21:VAL:HG12	16:AP:34:GLU:O	1.91	0.71
18:AR:44:LEU:HB3	18:AR:48:GLY:HA2	1.71	0.71
19:AS:9:VAL:HG13	19:AS:39:THR:OG1	1.90	0.71
24:AY:395:PRO:HG2	24:AY:398:PHE:CZ	2.25	0.71
27:B2:2:LYS:HD2	27:B2:5:GLU:OE2	1.89	0.71
28:B3:8:LEU:HD13	28:B3:30:ARG:O	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:6:GLN:HA	32:B7:6:GLN:OE1	1.90	0.71
34:B9:19:ARG:NH1	35:BA:2755:C:C6	2.58	0.71
35:BA:1911:U:C2	35:BA:1918:A:C2	2.79	0.71
35:BA:2223:G:H5''	38:BD:269:PHE:HZ	1.55	0.71
35:BA:2840:C:O2'	35:BA:2841:C:H5'	1.89	0.71
46:BO:64:ARG:NE	51:BT:70:VAL:HG21	2.05	0.71
47:BP:38:GLN:CG	47:BP:39:LYS:H	1.99	0.71
50:BS:85:VAL:H	50:BS:106:ARG:HA	1.54	0.71
57:BZ:155:LEU:HD23	57:BZ:155:LEU:H	1.54	0.71
1:AA:585:G:H4'	12:AL:8:ASN:ND2	2.05	0.71
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.25	0.71
2:AB:61:LEU:N	2:AB:64:ARG:HH21	1.88	0.71
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.19	0.71
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.53	0.71
32:B7:2:LYS:HB2	35:BA:1620:G:O2'	1.91	0.71
35:BA:1024:G:H8	35:BA:1024:G:O5'	1.74	0.71
35:BA:1444:G:H2'	35:BA:1445(A):C:C4	2.24	0.71
35:BA:1805:U:O2	38:BD:50:THR:HB	1.89	0.71
35:BA:1817:G:C2'	35:BA:1818:U:H5'	2.19	0.71
35:BA:2113:U:H2'	35:BA:2114:A:C8	2.18	0.71
35:BA:2821:A:OP1	39:BE:110:GLY:N	2.16	0.71
39:BE:98:PRO:HD3	39:BE:175:VAL:CG1	2.20	0.71
41:BG:40:ASN:HB2	41:BG:91:ARG:HB2	1.72	0.71
47:BP:85:LEU:HA	47:BP:88:LEU:HB3	1.71	0.71
51:BT:107:ASP:CG	51:BT:108:ARG:H	1.97	0.71
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.24	0.71
1:AA:1348:U:OP1	9:AI:110:GLU:N	2.20	0.71
1:AA:1371:G:H2'	1:AA:1372:U:C6	2.25	0.71
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.21	0.71
11:AK:63:LEU:HD23	11:AK:63:LEU:H	1.55	0.71
13:AM:10:PRO:HB3	13:AM:18:ALA:HB1	1.73	0.71
24:AY:346:LEU:HB2	24:AY:366:GLY:CA	2.18	0.71
24:AY:508:MET:O	24:AY:511:LEU:HB3	1.91	0.71
30:B5:7:PRO:HG2	35:BA:2016:U:O2	1.90	0.71
31:B6:13:CYS:SG	31:B6:22:ALA:HB3	2.30	0.71
35:BA:1494:A:H3'	35:BA:1494:A:N3	2.05	0.71
35:BA:2873:A:H1'	49:BR:6:SER:OG	1.90	0.71
38:BD:247:ALA:CB	38:BD:252:TRP:O	2.38	0.71
51:BT:62:THR:CG2	51:BT:75:ILE:HG13	2.20	0.71
54:BW:26:GLY:N	54:BW:71:VAL:HB	2.06	0.71
57:BZ:100:VAL:HG11	57:BZ:137:ILE:HG12	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1047:G:H5''	14:AN:4:LYS:CE	2.18	0.71
3:AC:83:ARG:HG3	3:AC:87:LEU:HD11	1.71	0.71
11:AK:126:ARG:C	11:AK:128:ALA:H	1.98	0.71
12:AL:41:ARG:HB2	12:AL:41:ARG:NH1	2.04	0.71
24:AY:21:HIS:HD2	24:AY:122:ARG:N	1.87	0.71
24:AY:78:PRO:HB3	24:AY:83:LEU:CB	2.20	0.71
24:AY:134:ASP:OD1	24:AY:249:GLY:HA2	1.89	0.71
28:B3:30:ARG:O	28:B3:33:GLN:HB2	1.89	0.71
35:BA:515:A:H2'	35:BA:516:C:H5'	1.72	0.71
35:BA:1912:A:H5''	35:BA:1918:A:N6	2.05	0.71
35:BA:1951:U:H2'	35:BA:1953:A:OP2	1.89	0.71
35:BA:2001:A:H2'	35:BA:2002:G:H8	1.51	0.71
38:BD:181:GLU:HG3	38:BD:272:ALA:CB	2.20	0.71
47:BP:34:GLY:O	47:BP:35:HIS:HB2	1.89	0.71
48:BQ:30:GLY:N	48:BQ:105:GLU:OE2	2.23	0.71
51:BT:29:ARG:HE	51:BT:86:ILE:CG2	2.03	0.71
51:BT:54:ARG:HA	51:BT:59:THR:CB	2.20	0.71
1:AA:226:G:C2'	1:AA:227:G:H5'	2.20	0.71
1:AA:356:A:O3'	1:AA:367:U:H6	1.73	0.71
1:AA:1202:G:C2	14:AN:42:ILE:CG2	2.73	0.71
2:AB:23:ARG:O	2:AB:23:ARG:NH1	2.23	0.71
9:AI:53:VAL:HG13	9:AI:95:LYS:NZ	2.04	0.71
16:AP:57:ARG:HA	16:AP:60:LEU:HD12	1.70	0.71
22:AV:55:U:C6	22:AV:57:A:OP2	2.44	0.71
24:AY:138:LEU:HD13	24:AY:268:MET:SD	2.30	0.71
24:AY:440:ALA:HB2	24:AY:446:PHE:CE1	2.26	0.71
24:AY:483:GLU:O	24:AY:486:LYS:HG2	1.90	0.71
26:B1:79:GLY:HA2	35:BA:271(H):G:N2	2.06	0.71
35:BA:897:C:H6	35:BA:897:C:H5''	1.55	0.71
35:BA:2243:U:O2'	35:BA:2244:U:H5'	1.89	0.71
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.21	0.71
37:BC:183:GLU:O	37:BC:187:ASP:HB2	1.91	0.71
39:BE:197:ILE:CD1	39:BE:199:ARG:HH22	2.04	0.71
41:BG:47:LYS:HG2	41:BG:81:LYS:HG3	1.72	0.71
49:BR:13:HIS:CE1	49:BR:16:HIS:HB2	2.25	0.71
49:BR:38:VAL:HB	49:BR:39:PRO:HD3	1.71	0.71
56:BY:52:SER:O	56:BY:54:LYS:N	2.24	0.71
1:AA:427:U:H5'	4:AD:41:GLY:HA2	1.73	0.71
1:AA:499:A:O3'	1:AA:500:G:H8	1.73	0.71
8:AH:110:ALA:HB3	8:AH:121:ASP:HB3	1.72	0.71
22:AV:48:C:H6	22:AV:48:C:OP1	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:390:ILE:HG22	24:AY:390:ILE:O	1.90	0.71
35:BA:568:U:H2'	35:BA:570:G:OP2	1.89	0.71
35:BA:1012:U:O4	45:BN:28:THR:HG21	1.90	0.71
35:BA:1361:G:O2'	35:BA:1362:C:H5'	1.90	0.71
35:BA:1447:G:C5'	35:BA:1545:A:H4'	2.17	0.71
35:BA:1773:A:C2'	35:BA:1774:C:H5'	2.21	0.71
37:BC:141:LYS:HZ1	37:BC:164:ARG:NH2	1.89	0.71
38:BD:142:VAL:O	38:BD:163:ALA:HB3	1.90	0.71
40:BF:131:GLY:C	40:BF:138:GLU:HB3	2.16	0.71
48:BQ:95:ALA:O	48:BQ:97:VAL:HG23	1.89	0.71
57:BZ:108:PRO:HG2	57:BZ:111:VAL:HG21	1.70	0.71
1:AA:64:G:H4'	1:AA:65:U:H5''	1.73	0.71
1:AA:768:A:OP1	1:AA:804:U:H4'	1.91	0.71
1:AA:1145:C:O2'	1:AA:1146:A:H8	1.73	0.71
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	1.91	0.71
1:AA:1286:A:O2'	1:AA:1287:A:H5''	1.90	0.71
24:AY:174:GLY:O	24:AY:179:PHE:HD1	1.72	0.71
24:AY:186:TYR:CE2	24:AY:241:PHE:HB3	2.25	0.71
24:AY:315:VAL:HG21	24:AY:346:LEU:HD12	1.71	0.71
26:B1:76:ARG:NH2	26:B1:95:LEU:HD13	2.06	0.71
32:B7:23:ARG:C	32:B7:24:THR:HG22	2.16	0.71
35:BA:1496:A:H2'	35:BA:1498:C:C4	2.26	0.71
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.25	0.71
35:BA:1819:A:H5''	38:BD:158:ALA:CB	2.19	0.71
35:BA:1830:C:H2'	35:BA:1831:G:H8	1.55	0.71
35:BA:1902:C:O2'	38:BD:244:ARG:CB	2.33	0.71
35:BA:2126:A:H61	35:BA:2163:C:H4'	1.53	0.71
35:BA:2378:A:N1	50:BS:19:LYS:HE3	2.04	0.71
40:BF:7:TYR:HD2	40:BF:16:GLY:CA	2.04	0.71
41:BG:86:MET:HG2	41:BG:86:MET:O	1.89	0.71
42:BH:94:TYR:HD1	42:BH:108:GLY:N	1.89	0.71
42:BH:122:THR:CG2	42:BH:123:PHE:H	1.99	0.71
47:BP:112:LEU:H	47:BP:128:HIS:CD2	2.09	0.71
47:BP:113:LYS:HE2	47:BP:131:SER:HB3	1.73	0.71
48:BQ:131:ILE:HD12	48:BQ:131:ILE:N	2.06	0.71
1:AA:92:C:H2'	1:AA:93:G:C8	2.26	0.71
1:AA:642:A:N3	8:AH:113:SER:OG	2.22	0.71
1:AA:720:C:C1'	18:AR:50:ILE:HG21	2.21	0.71
1:AA:853:G:O2'	1:AA:854:G:H5'	1.89	0.71
1:AA:1346:A:H5'	9:AI:120:ARG:NH1	2.04	0.71
2:AB:106:LYS:O	2:AB:109:SER:HB2	1.91	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:21:ARG:C	3:AC:22:TRP:CD1	2.69	0.71
3:AC:36:ASP:O	3:AC:40:ARG:HG3	1.90	0.71
5:AE:62:ALA:O	5:AE:64:ARG:N	2.24	0.71
5:AE:110:LEU:O	5:AE:113:ALA:HB3	1.91	0.71
7:AG:22:LEU:O	7:AG:22:LEU:HD23	1.90	0.71
12:AL:45:PRO:HD3	12:AL:51:ALA:O	1.91	0.71
13:AM:70:LEU:O	13:AM:73:GLU:HB3	1.90	0.71
19:AS:78:ARG:CB	19:AS:81:ARG:NH1	2.53	0.71
22:AV:47:U:H3'	22:AV:47:U:O2	1.91	0.71
24:AY:142:ASN:HD21	58:AY:1000:GCP:C6	2.04	0.71
35:BA:209:C:C5'	35:BA:681:G:H4'	2.21	0.71
35:BA:736:C:H2'	35:BA:737:C:H6	1.56	0.71
35:BA:1069:A:H1'	35:BA:1070:A:OP1	1.91	0.71
35:BA:1244:G:H4'	47:BP:11:GLY:HA2	1.72	0.71
35:BA:1500:G:N2	38:BD:99:ASP:O	2.23	0.71
35:BA:1766:U:H2'	35:BA:1767:C:H6	1.56	0.71
35:BA:2839:G:H4'	49:BR:49:ASP:CG	2.16	0.71
38:BD:87:ASN:HB2	38:BD:88:ARG:NE	2.05	0.71
38:BD:126:GLN:C	38:BD:193:VAL:HG21	2.16	0.71
42:BH:35:VAL:HG12	42:BH:72:ILE:CD1	2.21	0.71
47:BP:131:SER:HG	47:BP:134:ALA:HB3	1.56	0.71
49:BR:11:ASN:O	49:BR:12:ARG:HB2	1.90	0.71
49:BR:55:ALA:HB2	49:BR:79:LEU:CD1	2.21	0.71
52:BU:86:ALA:O	52:BU:88:ILE:HG23	1.91	0.71
53:BV:52:VAL:HG22	53:BV:52:VAL:O	1.90	0.71
53:BV:91:TYR:O	53:BV:92:THR:HG23	1.90	0.71
57:BZ:5:LEU:O	57:BZ:59:LEU:HA	1.91	0.71
57:BZ:42:VAL:HG13	57:BZ:43:GLU:H	1.56	0.71
57:BZ:123:ASP:C	57:BZ:124:ILE:HG12	2.16	0.71
1:AA:538:G:H2'	1:AA:539:A:C8	2.24	0.71
1:AA:868:C:C2'	1:AA:869:G:H5'	2.21	0.71
1:AA:943:U:O2'	1:AA:944:G:H5'	1.89	0.71
12:AL:69:TYR:HE1	12:AL:71:PRO:HA	1.56	0.71
13:AM:14:ARG:H	13:AM:44:ARG:HH11	1.38	0.71
14:AN:13:THR:H	14:AN:14:PRO:HD3	1.55	0.71
22:AV:20:U:O2'	22:AV:21:A:H4'	1.91	0.71
24:AY:255:PHE:HZ	24:AY:275:TRP:CH2	1.96	0.71
35:BA:253:C:H2'	35:BA:254:G:C8	2.26	0.71
35:BA:987:G:H2'	35:BA:988:A:O4'	1.91	0.71
35:BA:2718:G:H5'	51:BT:100:TYR:HE2	1.53	0.71
39:BE:47:VAL:HG21	39:BE:86:PRO:CD	2.20	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:82:ILE:HG12	40:BF:83:PHE:N	2.04	0.71
40:BF:103:LYS:HE3	40:BF:106:ARG:NH2	2.02	0.71
51:BT:96:ARG:HB2	51:BT:96:ARG:NH1	2.05	0.71
1:AA:50:A:N6	1:AA:361:G:H4'	2.05	0.70
1:AA:918:A:N6	1:AA:919:A:C6	2.59	0.70
1:AA:1014:A:C2	19:AS:34:TRP:CE2	2.79	0.70
1:AA:1201:A:H4'	1:AA:1202:G:O5'	1.90	0.70
1:AA:1394:A:N7	1:AA:1501:C:H4'	2.06	0.70
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.54	0.70
3:AC:95:THR:O	3:AC:97:LYS:N	2.23	0.70
3:AC:131:ARG:HH11	3:AC:166:GLU:HG3	1.56	0.70
13:AM:29:ARG:O	13:AM:32:GLU:HB3	1.90	0.70
18:AR:63:GLN:OE1	18:AR:66:LEU:HD23	1.90	0.70
24:AY:30:THR:CG2	24:AY:86:LEU:HD21	2.21	0.70
24:AY:74:VAL:HG21	24:AY:87:LEU:CD2	2.21	0.70
24:AY:108:CYS:CB	24:AY:136:PRO:HG2	2.21	0.70
24:AY:349:MET:CE	24:AY:358:GLU:HG2	2.21	0.70
27:B2:12:GLU:O	27:B2:16:LEU:HG	1.91	0.70
35:BA:272(H):C:C2'	35:BA:272(I):U:H5''	2.19	0.70
35:BA:370:G:H5''	35:BA:423:A:N6	2.06	0.70
35:BA:705:A:N1	35:BA:727:A:C1'	2.53	0.70
35:BA:950:G:H2'	35:BA:951:C:C6	2.26	0.70
35:BA:2125:G:H21	35:BA:2173:A:H61	1.38	0.70
35:BA:2273:A:H2'	35:BA:2274:A:C8	2.26	0.70
38:BD:147:LEU:HD23	38:BD:183:ARG:CZ	2.21	0.70
38:BD:242:ARG:HD2	38:BD:242:ARG:N	2.06	0.70
42:BH:87:LEU:HD21	42:BH:162:ILE:HD11	1.73	0.70
46:BO:63:VAL:HG12	46:BO:106:LEU:HD11	1.73	0.70
51:BT:120:ARG:HA	51:BT:123:GLN:OE1	1.91	0.70
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.26	0.70
3:AC:48:TYR:CE1	3:AC:118:GLN:NE2	2.57	0.70
3:AC:131:ARG:HH11	3:AC:166:GLU:CG	2.04	0.70
3:AC:157:ILE:HG21	3:AC:164:ARG:HH21	1.56	0.70
7:AG:24:THR:HA	7:AG:27:ILE:HB	1.72	0.70
9:AI:47:LEU:HG	9:AI:50:LEU:HD12	1.72	0.70
13:AM:13:LYS:CA	13:AM:44:ARG:HH11	2.03	0.70
15:AO:68:ARG:HD3	15:AO:72:ARG:HE	1.55	0.70
16:AP:1:MET:SD	16:AP:3:LYS:HE3	2.31	0.70
24:AY:94:ASP:O	24:AY:97:GLU:HG3	1.90	0.70
24:AY:174:GLY:O	24:AY:179:PHE:HA	1.90	0.70
24:AY:420:SER:C	24:AY:422:GLU:H	1.98	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:19:SER:CB	33:B8:21:LYS:HE3	2.19	0.70
35:BA:528:A:C2	35:BA:2043:C:H4'	2.21	0.70
35:BA:586:A:H5'	40:BF:89:VAL:HG11	1.72	0.70
35:BA:892:G:H2'	35:BA:893:C:C6	2.26	0.70
35:BA:2641:G:H8	35:BA:2641:G:H5'	1.55	0.70
39:BE:142:GLY:C	39:BE:143:ASN:HD22	1.99	0.70
50:BS:65:VAL:C	50:BS:69:VAL:HG12	2.16	0.70
5:AE:20:GLN:HG2	5:AE:21:ALA:H	1.56	0.70
7:AG:31:MET:HG2	7:AG:32:ARG:N	2.04	0.70
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.05	0.70
24:AY:104:THR:O	24:AY:105:ALA:CB	2.39	0.70
24:AY:246:PHE:CD1	24:AY:253:PRO:HD3	2.26	0.70
24:AY:315:VAL:HG12	24:AY:317:PHE:H	1.57	0.70
24:AY:380:THR:HG21	24:AY:383:GLU:HB2	1.74	0.70
24:AY:425:VAL:HG12	24:AY:445:GLN:HE21	1.54	0.70
29:B4:15:ILE:HD13	29:B4:21:VAL:HG13	1.72	0.70
35:BA:1803:A:O2'	38:BD:259:THR:HG21	1.89	0.70
35:BA:2161:C:H2'	35:BA:2162:G:H8	1.56	0.70
35:BA:2361:A:O2'	35:BA:2362:G:H5'	1.91	0.70
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.56	0.70
38:BD:24:ILE:HG23	38:BD:82:ILE:C	2.17	0.70
39:BE:54:GLN:O	39:BE:75:VAL:CG2	2.40	0.70
45:BN:22:THR:O	45:BN:26:LEU:HB2	1.92	0.70
46:BO:34:THR:N	46:BO:37:ASP:OD2	2.23	0.70
47:BP:7:ARG:HB3	47:BP:8:PRO:HD3	1.72	0.70
47:BP:88:LEU:HD21	47:BP:125:VAL:CG2	2.21	0.70
48:BQ:56:ARG:O	48:BQ:58:PHE:N	2.24	0.70
51:BT:89:VAL:HG11	51:BT:91:ARG:HE	1.56	0.70
52:BU:9:VAL:C	52:BU:13:LYS:HE2	2.16	0.70
56:BY:28:LYS:HG2	56:BY:39:VAL:H	1.56	0.70
57:BZ:151:HIS:HB3	57:BZ:171:ILE:N	2.05	0.70
1:AA:778:G:H2'	1:AA:779:C:O4'	1.90	0.70
1:AA:1347:G:H3'	9:AI:108:VAL:O	1.91	0.70
1:AA:1465:C:H2'	1:AA:1466:C:C6	2.25	0.70
11:AK:91:ARG:HG3	11:AK:91:ARG:HH11	1.56	0.70
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.39	0.70
13:AM:2:ALA:N	13:AM:9:ILE:HG23	2.04	0.70
22:AV:48:C:H4'	22:AV:49:G:C5'	2.18	0.70
24:AY:11:ALA:O	24:AY:14:ARG:NH2	2.24	0.70
24:AY:170:THR:HB	24:AY:182:VAL:CG1	2.21	0.70
35:BA:780:G:H2'	35:BA:782:A:N7	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:813:U:H2'	35:BA:814:C:C6	2.26	0.70
35:BA:1563:G:O2'	35:BA:1564:C:H5'	1.92	0.70
35:BA:1917:U:C2'	35:BA:1918:A:H5'	2.21	0.70
35:BA:2402:C:C2'	35:BA:2403:C:H5'	2.20	0.70
35:BA:2439:A:C8	35:BA:2439:A:C5'	2.74	0.70
38:BD:24:ILE:CG2	38:BD:83:GLU:HA	2.21	0.70
38:BD:181:GLU:C	38:BD:272:ALA:HB1	2.17	0.70
39:BE:14:ILE:HD11	39:BE:173:VAL:CG1	2.21	0.70
39:BE:56:PRO:O	39:BE:57:LYS:HE3	1.91	0.70
51:BT:8:LYS:HA	51:BT:11:GLU:OE2	1.91	0.70
1:AA:568:G:O2'	1:AA:569:C:H5'	1.91	0.70
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.26	0.70
11:AK:57:THR:CG2	11:AK:60:ALA:H	2.04	0.70
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.71	0.70
35:BA:636:G:OP2	47:BP:113:LYS:NZ	2.24	0.70
35:BA:1106:G:H4'	43:BJ:57:UNK:O	1.91	0.70
35:BA:1332:G:N2	35:BA:1610:A:C8	2.60	0.70
35:BA:1639:U:C4'	35:BA:2699:C:H4'	2.20	0.70
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.26	0.70
36:BB:7:G:H3'	36:BB:8:U:H5''	1.72	0.70
39:BE:172:VAL:O	39:BE:173:VAL:C	2.34	0.70
42:BH:71:LEU:HD22	42:BH:72:ILE:HD12	1.72	0.70
56:BY:73:ARG:O	56:BY:74:PRO:O	2.09	0.70
1:AA:231:G:H2'	1:AA:232:G:C8	2.24	0.70
1:AA:326:G:C2'	1:AA:327:A:H5'	2.21	0.70
1:AA:1034:G:O2'	1:AA:1035:A:H5'	1.92	0.70
24:AY:30:THR:O	24:AY:33:VAL:HB	1.90	0.70
24:AY:221:GLU:CA	24:AY:225:GLN:HE22	2.03	0.70
26:B1:78:LYS:O	26:B1:80:LEU:N	2.25	0.70
35:BA:272(J):C:C3'	35:BA:274:G:H5''	2.22	0.70
35:BA:1779:U:C5	35:BA:1783:A:C8	2.79	0.70
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.27	0.70
35:BA:2023:G:H1	35:BA:2040:C:N4	1.89	0.70
35:BA:2415:G:O3'	47:BP:66:GLY:HA3	1.92	0.70
37:BC:77:ILE:HG13	37:BC:115:ALA:HB2	1.73	0.70
37:BC:115:ALA:HB3	37:BC:120:MET:CE	2.20	0.70
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.74	0.70
45:BN:2:LYS:HZ1	52:BU:95:LEU:HD21	1.55	0.70
46:BO:1:MET:HE2	46:BO:32:TYR:CE2	2.26	0.70
49:BR:62:ALA:HA	49:BR:65:LEU:HB2	1.71	0.70
1:AA:613:C:H2'	1:AA:614:A:C8	2.27	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1157:A:H5'	1:AA:1158:C:C5	2.26	0.70
1:AA:1296:C:H4'	1:AA:1302:U:H5	1.57	0.70
2:AB:122:PHE:HA	2:AB:139:LYS:HZ2	1.57	0.70
5:AE:34:VAL:HG12	5:AE:62:ALA:HB1	1.71	0.70
6:AF:91:VAL:HG12	6:AF:92:LYS:O	1.92	0.70
9:AI:121:ARG:HH11	9:AI:121:ARG:HG2	1.56	0.70
10:AJ:54:PHE:O	10:AJ:56:HIS:N	2.24	0.70
20:AT:13:LEU:HD23	20:AT:13:LEU:N	2.06	0.70
22:AV:17:C:C3'	22:AV:17(A):U:H5'	2.20	0.70
32:B7:17:GLY:O	32:B7:20:ALA:HB3	1.92	0.70
35:BA:496:G:O4'	54:BW:61:ASN:ND2	2.24	0.70
35:BA:1169:G:H1	35:BA:1180:C:H42	1.38	0.70
35:BA:1427:A:H1'	35:BA:1428:C:H5	1.56	0.70
35:BA:1799:G:O6	38:BD:179:SER:HB3	1.92	0.70
35:BA:1843:C:H2'	35:BA:1844:C:C6	2.26	0.70
35:BA:2707:G:H2'	35:BA:2708:G:C8	2.25	0.70
36:BB:116:G:C2	36:BB:117:G:N7	2.60	0.70
38:BD:137:PRO:O	38:BD:140:THR:HG23	1.91	0.70
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.40	0.70
40:BF:156:LEU:O	40:BF:157:VAL:HG13	1.91	0.70
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.54	0.70
1:AA:1087:G:H22	1:AA:1099:G:H1'	1.57	0.70
3:AC:88:ARG:NH1	3:AC:88:ARG:HG3	2.06	0.70
4:AD:19:LEU:HG	4:AD:21:LEU:HD21	1.74	0.70
6:AF:6:VAL:HB	6:AF:63:TYR:HB2	1.73	0.70
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.54	0.70
18:AR:34:TYR:CD2	18:AR:72:ARG:HD3	2.27	0.70
20:AT:50:GLU:HB2	20:AT:100:ILE:HD13	1.73	0.70
24:AY:241:PHE:CZ	24:AY:275:TRP:CD1	2.80	0.70
24:AY:297:THR:HB	24:AY:322:SER:HG	1.57	0.70
24:AY:327:LYS:HZ1	24:AY:344:ASP:HB3	1.56	0.70
24:AY:473:TRP:CE2	24:AY:527:ARG:HG2	2.27	0.70
30:B5:49:CYS:O	30:B5:56:LYS:HD2	1.92	0.70
33:B8:54:GLU:O	33:B8:58:ILE:HG12	1.91	0.70
35:BA:253:C:H2'	35:BA:254:G:H8	1.56	0.70
35:BA:1267:U:H2'	35:BA:1268:A:H8	1.57	0.70
35:BA:1375:C:H2'	35:BA:1376:C:C6	2.24	0.70
35:BA:1428:C:H42	35:BA:1569:A:H3'	1.53	0.70
35:BA:1498:C:C2'	35:BA:1499:C:C5'	2.70	0.70
35:BA:2102:U:H2'	35:BA:2103:C:C1'	2.22	0.70
35:BA:2127:G:H2'	35:BA:2128:C:C5	2.27	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2781:A:C5'	35:BA:2782:G:H5'	2.21	0.70
37:BC:49:ILE:HG22	37:BC:204:ALA:HB1	1.73	0.70
37:BC:119:VAL:O	37:BC:123:VAL:HB	1.91	0.70
37:BC:217:THR:HG22	37:BC:218:MET:N	2.07	0.70
42:BH:41:MET:HG3	42:BH:42:ARG:N	2.07	0.70
46:BO:78:ARG:NH2	51:BT:73:GLU:OE1	2.22	0.70
49:BR:30:THR:HG23	49:BR:31:HIS:CD2	2.26	0.70
51:BT:89:VAL:CG1	51:BT:91:ARG:HG3	2.22	0.70
56:BY:77:PRO:O	56:BY:99:CYS:SG	2.49	0.70
1:AA:173:U:H5'	1:AA:197:A:O4'	1.92	0.70
1:AA:689:C:H2'	1:AA:690:G:O4'	1.91	0.70
1:AA:697:U:H1'	1:AA:786:G:O4'	1.92	0.70
1:AA:868:C:H2'	1:AA:869:G:H5'	1.74	0.70
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.73	0.70
1:AA:1124:G:H2'	1:AA:1145:C:N4	2.06	0.70
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.07	0.70
3:AC:19:GLU:O	3:AC:56:ASP:HA	1.92	0.70
4:AD:96:LEU:H	4:AD:96:LEU:HD12	1.56	0.70
5:AE:79:GLU:O	8:AH:104:ARG:CZ	2.39	0.70
5:AE:128:PRO:HB2	5:AE:129:ILE:HD12	1.74	0.70
7:AG:15:ASP:HB3	7:AG:19:GLY:CA	2.22	0.70
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	1.99	0.70
13:AM:14:ARG:H	13:AM:44:ARG:NH1	1.88	0.70
22:AV:33:U:H5'	22:AV:33:U:H6	1.55	0.70
24:AY:78:PRO:HB2	24:AY:83:LEU:HD22	1.74	0.70
24:AY:89:THR:HB	24:AY:90:PRO:CD	2.21	0.70
24:AY:94:ASP:OD2	24:AY:442:GLY:HA3	1.90	0.70
24:AY:342:ILE:O	24:AY:342:ILE:CG1	2.40	0.70
31:B6:8:LYS:HD2	31:B6:27:LYS:HD3	1.73	0.70
35:BA:264:C:H4'	35:BA:428:A:C2	2.26	0.70
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.73	0.70
35:BA:1625:C:C2'	35:BA:1626:G:H5'	2.21	0.70
35:BA:1847:A:C2	35:BA:1848:A:N6	2.60	0.70
35:BA:1999:C:H4'	35:BA:2723:C:O2	1.92	0.70
35:BA:2127:G:H2'	35:BA:2128:C:C6	2.27	0.70
35:BA:2848:G:O6	51:BT:54:ARG:NH2	2.25	0.70
35:BA:2864:G:H2'	35:BA:2865:U:C6	2.26	0.70
38:BD:183:ARG:CG	38:BD:270:ILE:HG23	2.21	0.70
41:BG:64:THR:HG23	41:BG:66:GLN:N	2.04	0.70
41:BG:79:ASN:O	41:BG:80:PHE:HB2	1.91	0.70
45:BN:134:ARG:HH21	45:BN:136:GLU:HB2	1.56	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:121:ILE:HA	51:BT:124:ASP:HB2	1.74	0.70
1:AA:741:G:H2'	1:AA:742:G:C8	2.26	0.70
1:AA:929:G:O2'	1:AA:930:C:H5'	1.90	0.70
1:AA:1452:C:H5''	1:AA:1456:G:OP1	1.92	0.70
4:AD:15:GLU:CG	4:AD:63:LYS:HG3	2.22	0.70
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.27	0.70
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.26	0.70
22:AV:32:C:H2'	22:AV:33:U:H5''	1.74	0.70
24:AY:7:LEU:HD22	24:AY:292:SER:HB3	1.74	0.70
24:AY:168:PRO:CG	24:AY:171:TRP:HZ2	2.02	0.70
24:AY:302:LYS:O	24:AY:316:ALA:CA	2.38	0.70
26:B1:23:LYS:HD3	26:B1:28:GLY:CA	2.19	0.70
32:B7:37:LYS:HG2	32:B7:37:LYS:O	1.92	0.70
35:BA:1667:G:OP1	46:BO:6:THR:HA	1.92	0.70
35:BA:2111:C:H1'	35:BA:2118:U:O4'	1.92	0.70
35:BA:2144:U:O2	35:BA:2147:G:O6	2.10	0.70
35:BA:2789:C:H1'	35:BA:2892:A:N1	2.07	0.70
39:BE:48:GLN:HE22	39:BE:64:LYS:HZ1	1.38	0.70
45:BN:21:LYS:HD3	45:BN:22:THR:N	2.06	0.70
56:BY:86:ARG:C	56:BY:88:LYS:HZ2	2.00	0.70
1:AA:1265:G:H2'	1:AA:1266:G:C8	2.27	0.69
2:AB:43:ASP:OD2	2:AB:46:LYS:HE3	1.91	0.69
2:AB:105:PHE:O	2:AB:107:THR:N	2.25	0.69
2:AB:189:ASP:O	2:AB:191:ASP:N	2.25	0.69
4:AD:59:ARG:HH11	4:AD:59:ARG:HG2	1.55	0.69
4:AD:159:ARG:NH1	4:AD:159:ARG:HG3	2.07	0.69
10:AJ:28:ARG:C	10:AJ:30:SER:H	1.99	0.69
24:AY:4:SER:HB3	24:AY:7:LEU:HD12	1.73	0.69
24:AY:207:VAL:HG12	24:AY:207:VAL:O	1.92	0.69
25:B0:62:LEU:O	25:B0:63:VAL:HG13	1.92	0.69
33:B8:6:THR:HG22	33:B8:61:LEU:HD12	1.71	0.69
35:BA:893:C:O2'	35:BA:894:C:H5'	1.92	0.69
37:BC:59:ARG:HD2	37:BC:164:ARG:NE	2.06	0.69
38:BD:213:ARG:HH12	38:BD:219:PRO:HD3	1.55	0.69
40:BF:203:GLN:C	40:BF:205:ARG:H	2.00	0.69
41:BG:101:ILE:HG22	41:BG:105:LYS:HZ2	1.56	0.69
45:BN:61:ARG:HG3	45:BN:61:ARG:NH1	2.05	0.69
54:BW:29:LEU:HD23	54:BW:33:ARG:HD2	1.74	0.69
54:BW:37:ARG:HG3	54:BW:37:ARG:HH11	1.57	0.69
1:AA:810:C:H2'	1:AA:811:C:O4'	1.92	0.69
2:AB:20:GLU:HG2	2:AB:189:ASP:OD1	1.92	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:30:ARG:HD2	2:AB:31:TYR:CE1	2.27	0.69
17:AQ:5:VAL:HA	17:AQ:59:ILE:O	1.91	0.69
24:AY:421:GLU:O	24:AY:421:GLU:HG2	1.91	0.69
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.28	0.69
35:BA:770:G:N3	35:BA:1354:A:H2	1.89	0.69
35:BA:976:C:N4	35:BA:987:G:H1	1.88	0.69
35:BA:976:C:H5'	35:BA:1156:A:N6	2.07	0.69
35:BA:2359:C:O2'	35:BA:2360:A:H5'	1.92	0.69
35:BA:2395:C:H2'	35:BA:2396:G:O4'	1.92	0.69
35:BA:2648:C:H2'	35:BA:2649:U:C6	2.27	0.69
35:BA:2718:G:OP1	51:BT:100:TYR:HD2	1.75	0.69
35:BA:2729:G:H1'	39:BE:187:ALA:CB	2.21	0.69
35:BA:2784:C:H4'	39:BE:41:LYS:O	1.91	0.69
36:BB:94:C:H2'	36:BB:95:C:H6	1.57	0.69
37:BC:107:TRP:CZ3	37:BC:131:LEU:HD21	2.26	0.69
37:BC:128:GLY:HA2	37:BC:137:LEU:HD23	1.73	0.69
40:BF:66:PRO:HB2	40:BF:70:THR:CG2	2.22	0.69
40:BF:181:LEU:HD12	40:BF:182:ASN:H	1.56	0.69
44:BK:101:UNK:CB	44:BK:138:UNK:HA	2.22	0.69
45:BN:120:LEU:HD11	45:BN:122:VAL:CG2	2.22	0.69
52:BU:57:PHE:CD1	52:BU:60:LEU:HD12	2.27	0.69
1:AA:1053:G:H2'	1:AA:1199:U:H5	1.57	0.69
1:AA:1495:U:O2'	1:AA:1496:C:H5'	1.92	0.69
2:AB:92:TYR:CG	2:AB:151:GLY:HA3	2.27	0.69
9:AI:118:LYS:O	9:AI:119:ALA:HB2	1.92	0.69
19:AS:26:GLY:HA2	29:B4:47:GLN:C	2.17	0.69
22:AV:24:U:H2'	22:AV:25:C:H5'	1.73	0.69
26:B1:75:GLU:O	26:B1:78:LYS:HG2	1.91	0.69
28:B3:21:ALA:O	35:BA:849:A:C2	2.45	0.69
28:B3:26:LEU:HB2	28:B3:28:LEU:CD2	2.22	0.69
31:B6:15:GLU:HG2	31:B6:18:ARG:CZ	2.21	0.69
31:B6:30:THR:HG22	31:B6:31:PRO:HD2	1.74	0.69
35:BA:206:U:O2'	35:BA:207:A:H5'	1.92	0.69
35:BA:869:G:O2'	35:BA:870:A:H5'	1.93	0.69
35:BA:1186:G:H2'	35:BA:1187:G:O4'	1.93	0.69
35:BA:2107:C:H2'	35:BA:2108:C:C6	2.25	0.69
35:BA:2310:A:O2'	35:BA:2311:A:C5'	2.38	0.69
35:BA:2616:C:H2'	35:BA:2617:C:H6	1.57	0.69
38:BD:60:ARG:CZ	38:BD:87:ASN:HA	2.22	0.69
41:BG:85:GLY:O	41:BG:86:MET:HB3	1.92	0.69
46:BO:47:ILE:HG12	46:BO:48:PRO:HD2	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:15:ARG:HB2	50:BS:15:ARG:HH11	1.56	0.69
57:BZ:166:SER:HB2	57:BZ:167:PRO:C	2.17	0.69
1:AA:155:C:H2'	1:AA:156:G:H8	1.57	0.69
3:AC:55:VAL:HG22	3:AC:68:VAL:CG1	2.21	0.69
24:AY:78:PRO:CB	24:AY:83:LEU:HD22	2.22	0.69
24:AY:225:GLN:CA	24:AY:228:ARG:HB2	2.22	0.69
35:BA:1005:C:O2'	35:BA:1006:C:H5'	1.92	0.69
35:BA:1028:A:H2'	35:BA:1029:A:H8	1.56	0.69
35:BA:1499:C:O2'	35:BA:1500:G:H5'	1.91	0.69
35:BA:1605:C:H2'	35:BA:1606:G:H5'	1.74	0.69
35:BA:1654:A:N6	35:BA:2006:C:O4'	2.25	0.69
36:BB:82:G:N1	36:BB:96:U:N3	2.40	0.69
38:BD:10:THR:O	38:BD:10:THR:OG1	2.05	0.69
39:BE:199:ARG:HH11	39:BE:199:ARG:CB	2.05	0.69
42:BH:69:ARG:O	42:BH:73:ALA:CB	2.40	0.69
42:BH:107:VAL:O	42:BH:107:VAL:HG23	1.92	0.69
51:BT:62:THR:HG22	51:BT:75:ILE:CG2	2.21	0.69
56:BY:20:TYR:HD2	56:BY:23:ARG:HG3	1.56	0.69
1:AA:632:A:H3'	1:AA:633:G:C8	2.27	0.69
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.08	0.69
13:AM:86:CYS:SG	13:AM:88:ARG:HB3	2.33	0.69
14:AN:4:LYS:HB2	14:AN:4:LYS:NZ	2.08	0.69
15:AO:33:THR:HG23	15:AO:34:LEU:N	2.08	0.69
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.57	0.69
24:AY:272:LEU:HD12	24:AY:273:VAL:HG23	1.73	0.69
28:B3:35:ARG:CG	28:B3:35:ARG:HH11	2.06	0.69
33:B8:52:LYS:N	33:B8:53:PRO:HD2	2.06	0.69
35:BA:324:A:O2'	35:BA:325:G:H5'	1.92	0.69
35:BA:1141:U:H4'	35:BA:1142(A):A:C8	2.28	0.69
35:BA:1683:C:H2'	35:BA:1684:C:C6	2.27	0.69
35:BA:2072:G:H1'	35:BA:2440:C:N4	2.08	0.69
35:BA:2346:A:H5'	35:BA:2383:G:O4'	1.91	0.69
35:BA:2807:G:H1	35:BA:2893:G:H1	1.39	0.69
37:BC:100:ILE:HG23	37:BC:127:MET:CG	2.21	0.69
38:BD:121:PRO:C	38:BD:123:ALA:H	2.00	0.69
39:BE:144:ARG:CG	39:BE:145:LYS:H	2.05	0.69
46:BO:7:TYR:C	46:BO:8:LEU:HD12	2.18	0.69
50:BS:35:ILE:O	50:BS:35:ILE:HG12	1.92	0.69
52:BU:57:PHE:HA	52:BU:60:LEU:HB2	1.74	0.69
56:BY:45:VAL:HG13	56:BY:62:GLU:OE1	1.92	0.69
1:AA:525:C:H2'	1:AA:526:C:C6	2.28	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:687:A:H1'	1:AA:688:G:O4'	1.92	0.69
1:AA:1325:C:N4	1:AA:1326:C:H41	1.91	0.69
1:AA:1493:A:O2'	1:AA:1494:G:C8	2.45	0.69
10:AJ:55:LYS:HE3	10:AJ:55:LYS:H	1.56	0.69
19:AS:23:ASN:HA	29:B4:47:GLN:CB	2.22	0.69
24:AY:62:MET:HG2	24:AY:451:ALA:CB	2.21	0.69
32:B7:40:TRP:CD2	35:BA:459:U:H5'	2.27	0.69
34:B9:36:GLN:HE22	35:BA:1031:G:N2	1.87	0.69
35:BA:729:G:C6	38:BD:208:LYS:HB2	2.27	0.69
35:BA:774:A:C2	35:BA:787:U:O2'	2.45	0.69
35:BA:1571:A:H2'	35:BA:1572:A:C8	2.27	0.69
35:BA:1782:C:H1'	35:BA:2609:U:H5''	1.74	0.69
35:BA:1915:U:H2'	35:BA:1916:A:H5'	1.70	0.69
35:BA:2078:C:O2'	35:BA:2079:U:H5'	1.92	0.69
35:BA:2777:G:H5''	35:BA:2778:A:C5'	2.23	0.69
37:BC:128:GLY:CA	37:BC:137:LEU:HD23	2.22	0.69
39:BE:62:PRO:C	39:BE:64:LYS:N	2.48	0.69
42:BH:65:HIS:C	42:BH:67:LEU:H	1.99	0.69
42:BH:66:GLY:HA2	42:BH:69:ARG:CD	2.22	0.69
45:BN:48:MET:H	45:BN:48:MET:HE3	1.55	0.69
46:BO:24:VAL:HG21	46:BO:30:ALA:O	1.93	0.69
49:BR:89:ASP:O	49:BR:91:GLN:HG3	1.91	0.69
51:BT:13:ARG:HA	51:BT:13:ARG:NE	2.08	0.69
1:AA:199:G:H2'	1:AA:200:G:H8	1.57	0.69
1:AA:972:C:O2'	1:AA:973:G:H5'	1.92	0.69
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.74	0.69
1:AA:1228:C:C2'	1:AA:1229:A:H5'	2.22	0.69
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.55	0.69
3:AC:64:VAL:HG12	3:AC:65:ALA:N	2.07	0.69
4:AD:5:ILE:CA	4:AD:115:ARG:HH12	2.05	0.69
16:AP:5:ARG:HE	16:AP:22:THR:CG2	2.05	0.69
24:AY:470:THR:HG21	24:AY:472:ARG:NH2	2.03	0.69
30:B5:28:PRO:CD	54:BW:35:ILE:HG23	2.22	0.69
31:B6:18:ARG:HG3	31:B6:19:ARG:H	1.58	0.69
35:BA:15:G:O2'	35:BA:16:G:H5'	1.92	0.69
35:BA:143(A):C:H2'	35:BA:144:C:C6	2.27	0.69
35:BA:1406:U:OP2	35:BA:1406:U:H6	1.75	0.69
35:BA:1614:A:N1	54:BW:87:PRO:HB3	2.08	0.69
35:BA:2092:U:C4'	35:BA:2093:G:H5''	2.21	0.69
38:BD:181:GLU:HG3	38:BD:272:ALA:HB1	1.75	0.69
45:BN:62:VAL:HG13	45:BN:62:VAL:O	1.91	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:38:GLN:O	47:BP:39:LYS:HB2	1.93	0.69
47:BP:59:LEU:HD23	47:BP:59:LEU:O	1.92	0.69
47:BP:146:VAL:HG22	47:BP:147:LEU:N	2.06	0.69
49:BR:20:LEU:O	49:BR:23:ASN:N	2.25	0.69
57:BZ:48:PHE:HD1	57:BZ:52:SER:HA	1.58	0.69
1:AA:773:G:H5''	38:BD:203:ASN:ND2	2.07	0.69
1:AA:973:G:H1'	10:AJ:55:LYS:HZ1	1.56	0.69
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.56	0.69
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.28	0.69
2:AB:51:LEU:HD23	2:AB:55:PHE:CE2	2.20	0.69
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.73	0.69
2:AB:103:THR:HG23	2:AB:176:GLU:OE1	1.92	0.69
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.72	0.69
4:AD:30:LYS:C	4:AD:32:ALA:N	2.41	0.69
4:AD:98:GLU:HA	4:AD:103:ASN:ND2	2.08	0.69
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.72	0.69
7:AG:118:VAL:CG2	7:AG:119:ARG:N	2.56	0.69
9:AI:26:VAL:HG13	9:AI:61:ALA:CB	2.20	0.69
10:AJ:6:ILE:HD12	10:AJ:8:LEU:HD11	1.75	0.69
10:AJ:16:LEU:HD11	10:AJ:70:ARG:CG	2.22	0.69
12:AL:53:ARG:HH11	12:AL:53:ARG:HG2	1.58	0.69
12:AL:76:ASN:O	12:AL:77:LEU:HD23	1.93	0.69
20:AT:36:LEU:CD1	20:AT:59:ALA:HB2	2.22	0.69
24:AY:6:TYR:O	24:AY:10:VAL:CG2	2.40	0.69
24:AY:125:LYS:HD3	24:AY:128:GLU:OE1	1.91	0.69
24:AY:144:LEU:HD12	24:AY:179:PHE:CE1	2.27	0.69
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	1.92	0.69
35:BA:296:C:O2'	35:BA:297:C:H5'	1.92	0.69
35:BA:464:U:H2'	35:BA:465:G:O4'	1.92	0.69
35:BA:637:A:OP2	47:BP:115:LEU:HB2	1.92	0.69
35:BA:999:U:H5	35:BA:1154:G:C4	2.10	0.69
35:BA:1047:G:H2'	35:BA:1110:G:H21	1.58	0.69
35:BA:1453:U:OP1	49:BR:77:ARG:HD3	1.92	0.69
35:BA:1776:G:H8	35:BA:1776:G:O5'	1.76	0.69
35:BA:1789:A:H5''	38:BD:221:VAL:HG12	1.75	0.69
37:BC:32:LEU:HD11	37:BC:222:VAL:HG22	1.75	0.69
37:BC:189:ILE:HD13	37:BC:214:VAL:HG21	1.74	0.69
37:BC:214:VAL:CG2	37:BC:224:ILE:HD13	2.22	0.69
39:BE:101:ARG:NH1	39:BE:171:GLU:HG3	2.08	0.69
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.92	0.69
52:BU:28:ARG:NH1	52:BU:38:THR:HG23	2.00	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:G:O3'	4:AD:14:ARG:NH2	2.25	0.69
1:AA:826:C:C4	1:AA:827:U:C5	2.81	0.69
1:AA:975:A:O2'	14:AN:32:SER:HB3	1.93	0.69
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.74	0.69
3:AC:153:VAL:O	3:AC:154:SER:HB3	1.92	0.69
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.57	0.69
11:AK:43:SER:HB2	11:AK:71:LYS:HZ1	1.58	0.69
16:AP:45:THR:CG2	16:AP:47:ASP:HB3	2.22	0.69
24:AY:420:SER:C	24:AY:422:GLU:N	2.48	0.69
27:B2:50:ILE:CG2	35:BA:61:G:H5'	2.15	0.69
35:BA:94(A):G:H2'	35:BA:95:G:O4'	1.93	0.69
35:BA:201:C:C2'	35:BA:202:U:H5'	2.23	0.69
35:BA:221:A:H4'	35:BA:222:A:O5'	1.93	0.69
35:BA:443:A:H2	35:BA:1245:G:N3	1.91	0.69
35:BA:1102:C:H2'	35:BA:1103:A:C8	2.27	0.69
35:BA:2535:G:H2'	35:BA:2536:G:C8	2.27	0.69
36:BB:98:G:C5	36:BB:99:G:C8	2.81	0.69
37:BC:47:LEU:CD1	37:BC:47:LEU:H	2.06	0.69
38:BD:26:LYS:O	38:BD:27:THR:HG23	1.93	0.69
38:BD:33:LEU:CG	38:BD:34:VAL:HG13	2.22	0.69
45:BN:3:THR:HG22	45:BN:4:TYR:H	1.58	0.69
56:BY:20:TYR:CD2	56:BY:23:ARG:HG3	2.27	0.69
1:AA:285:G:H2'	1:AA:286:G:H8	1.58	0.69
1:AA:1118:C:N4	1:AA:1155:G:H1	1.90	0.69
2:AB:8:LYS:NZ	2:AB:217:ARG:CZ	2.56	0.69
7:AG:34:GLY:C	7:AG:36:LYS:H	2.00	0.69
8:AH:9:MET:O	8:AH:13:ILE:HG12	1.93	0.69
15:AO:74:ASP:OD1	15:AO:74:ASP:C	2.35	0.69
24:AY:16:PHE:CE2	24:AY:84:VAL:CG1	2.75	0.69
24:AY:331:LEU:CB	24:AY:379:PHE:CE2	2.69	0.69
24:AY:443:VAL:O	24:AY:445:GLN:N	2.25	0.69
35:BA:225:A:O2'	35:BA:257:A:H4'	1.92	0.69
35:BA:472:A:H5'	35:BA:472:A:H8	1.58	0.69
35:BA:657:U:H2'	35:BA:658:C:C6	2.27	0.69
35:BA:884:C:H3'	35:BA:885:C:C5'	2.22	0.69
35:BA:962:G:H2'	35:BA:963:U:O4'	1.92	0.69
35:BA:970:C:H2'	35:BA:971:C:H6	1.58	0.69
35:BA:1956:U:H2'	35:BA:1957:C:H5'	1.75	0.69
35:BA:2443:C:C2'	35:BA:2444:G:H5'	2.22	0.69
38:BD:73:VAL:O	38:BD:75:ILE:HD12	1.93	0.69
39:BE:56:PRO:HD2	39:BE:58:ARG:NH1	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:138:GLN:NE2	41:BG:144:ILE:HD11	2.07	0.69
51:BT:20:PRO:CD	51:BT:85:LYS:HB2	2.17	0.69
51:BT:91:ARG:HG2	51:BT:116:ALA:HA	1.75	0.69
52:BU:13:LYS:HD3	52:BU:13:LYS:H	1.58	0.69
52:BU:106:PHE:O	52:BU:110:VAL:HG23	1.93	0.69
56:BY:13:VAL:HG22	56:BY:73:ARG:O	1.93	0.69
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.27	0.68
2:AB:10:LEU:C	2:AB:10:LEU:HD13	2.18	0.68
4:AD:107:ARG:HH12	4:AD:114:ARG:NH2	1.90	0.68
7:AG:139:GLU:O	7:AG:143:ARG:N	2.26	0.68
8:AH:95:VAL:HG22	8:AH:133:LEU:HD13	1.75	0.68
18:AR:38:GLU:HG2	18:AR:39:VAL:H	1.57	0.68
19:AS:49:ILE:HD12	19:AS:49:ILE:N	2.07	0.68
20:AT:18:GLN:HG2	20:AT:22:ARG:HH11	1.58	0.68
21:AU:18:TYR:HB3	21:AU:22:ARG:O	1.93	0.68
22:AV:49:G:H21	22:AV:50:U:H1'	1.57	0.68
24:AY:297:THR:HG22	24:AY:321:VAL:HB	1.76	0.68
24:AY:449:VAL:HG23	24:AY:463:TYR:OH	1.93	0.68
25:B0:20:ARG:NH2	35:BA:2271:G:H4'	2.08	0.68
35:BA:76:C:H2'	35:BA:77:C:C6	2.28	0.68
35:BA:199:A:C2	35:BA:2433:A:N3	2.61	0.68
35:BA:246:C:OP1	47:BP:71:VAL:HB	1.92	0.68
35:BA:566:U:H4'	35:BA:809:G:OP2	1.93	0.68
35:BA:886:C:H2'	35:BA:887:A:O5'	1.93	0.68
35:BA:917:A:C2	36:BB:79:C:O2	2.45	0.68
35:BA:1136:G:N3	35:BA:2038:G:H4'	2.08	0.68
35:BA:1316:U:H3	35:BA:1336:A:H61	1.41	0.68
35:BA:1569:A:H2'	35:BA:1570:A:H8	1.55	0.68
37:BC:30:LYS:HZ1	37:BC:30:LYS:HA	1.57	0.68
39:BE:4:ILE:CG2	39:BE:198:VAL:HB	2.22	0.68
39:BE:78:LEU:O	39:BE:79:ARG:HD2	1.93	0.68
40:BF:81:PRO:HG2	40:BF:82:ILE:H	1.58	0.68
40:BF:126:VAL:HG23	40:BF:127:GLU:H	1.56	0.68
41:BG:11:TYR:O	41:BG:15:VAL:HB	1.92	0.68
42:BH:38:SER:HB2	42:BH:64:LEU:HD11	1.75	0.68
45:BN:23:LEU:HA	45:BN:26:LEU:HB3	1.73	0.68
45:BN:27:ALA:CA	45:BN:30:ILE:HD12	2.23	0.68
47:BP:101:VAL:CG2	47:BP:102:ARG:N	2.56	0.68
50:BS:53:SER:N	50:BS:55:ALA:HB3	2.08	0.68
53:BV:75:PHE:HD2	53:BV:82:ARG:HG3	1.57	0.68
1:AA:1320:C:H5'	1:AA:1320:C:C6	2.27	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1392:G:H21	1:AA:1502:A:H8	1.41	0.68
2:AB:101:MET:HB2	2:AB:102:LEU:CD1	2.22	0.68
24:AY:30:THR:HG23	24:AY:86:LEU:CD2	2.22	0.68
25:B0:37:LEU:HD21	25:B0:60:PHE:C	2.19	0.68
35:BA:117:G:H5'	35:BA:126:A:N3	2.08	0.68
35:BA:373:U:H2'	35:BA:374:A:C8	2.26	0.68
35:BA:999:U:C5	35:BA:1154:G:C5	2.81	0.68
35:BA:1340:U:OP2	55:BX:78:LYS:NZ	2.25	0.68
35:BA:2287:A:H61	35:BA:2344:U:H3	1.38	0.68
37:BC:100:ILE:HG12	37:BC:127:MET:CE	2.20	0.68
42:BH:32:GLU:O	42:BH:33:LEU:HD23	1.93	0.68
45:BN:14:VAL:CG1	45:BN:137:LYS:HG3	2.22	0.68
51:BT:32:TYR:CG	51:BT:81:PRO:HB2	2.28	0.68
51:BT:60:THR:CG2	51:BT:77:PRO:HA	2.22	0.68
53:BV:88:ARG:O	53:BV:90:PRO:HD3	1.93	0.68
1:AA:918:A:C6	1:AA:919:A:C6	2.82	0.68
1:AA:1175:G:O2'	1:AA:1176:A:H5'	1.93	0.68
1:AA:1285:A:H4'	1:AA:1286:A:O5'	1.94	0.68
2:AB:44:LEU:HA	2:AB:47:THR:OG1	1.93	0.68
2:AB:115:LEU:HD13	2:AB:145:LEU:CD1	2.22	0.68
2:AB:121:LEU:HG	2:AB:126:GLU:HB2	1.75	0.68
2:AB:141:GLU:O	2:AB:145:LEU:HB2	1.92	0.68
6:AF:87:ARG:CG	6:AF:87:ARG:NH1	2.55	0.68
14:AN:40:CYS:O	14:AN:43:CYS:N	2.25	0.68
17:AQ:57:VAL:HG23	17:AQ:58:GLU:O	1.93	0.68
19:AS:22:LEU:O	29:B4:48:ARG:N	2.25	0.68
19:AS:47:HIS:O	19:AS:62:ILE:CG2	2.42	0.68
24:AY:173:ILE:HG22	24:AY:180:LYS:HB2	1.75	0.68
24:AY:272:LEU:O	24:AY:276:ALA:CB	2.41	0.68
31:B6:30:THR:O	31:B6:31:PRO:C	2.36	0.68
33:B8:30:ARG:NH2	35:BA:2419:U:O4	2.26	0.68
35:BA:875:G:H4'	57:BZ:170:THR:OG1	1.93	0.68
35:BA:954:G:H5''	48:BQ:13:GLN:HB3	1.74	0.68
35:BA:1094:U:H1'	35:BA:1097:U:H5	1.58	0.68
35:BA:1539:G:H2'	35:BA:1540:U:O4'	1.94	0.68
35:BA:1772:G:N2	35:BA:1774:C:H5''	2.08	0.68
35:BA:2638:G:OP2	39:BE:82:ARG:NH2	2.26	0.68
36:BB:7:G:C3'	36:BB:8:U:H5''	2.24	0.68
38:BD:92:ILE:HG22	38:BD:106:ILE:HG12	1.74	0.68
41:BG:39:ILE:CD1	41:BG:157:ILE:HG12	2.22	0.68
51:BT:33:LYS:HG3	51:BT:43:GLN:CB	2.21	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:17:ILE:HG23	52:BU:39:LEU:HD11	1.72	0.68
55:BX:14:SER:OG	55:BX:17:ALA:HB2	1.92	0.68
1:AA:106:C:O2'	1:AA:379:C:H5''	1.93	0.68
1:AA:122:G:H2'	1:AA:123:C:O4'	1.93	0.68
1:AA:507:C:P	1:AA:508:C:H3'	2.33	0.68
1:AA:754:C:C4'	15:AO:72:ARG:HH12	2.06	0.68
1:AA:939:G:P	7:AG:95:ARG:HH22	2.15	0.68
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.58	0.68
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.23	0.68
2:AB:30:ARG:C	2:AB:32:ILE:H	2.01	0.68
2:AB:115:LEU:CB	2:AB:145:LEU:HD12	2.24	0.68
2:AB:153:ARG:CG	2:AB:154:LEU:N	2.55	0.68
2:AB:178:ARG:HG3	2:AB:178:ARG:NH1	2.09	0.68
2:AB:224:GLN:O	2:AB:227:GLY:N	2.27	0.68
9:AI:121:ARG:HG2	9:AI:121:ARG:NH1	2.09	0.68
19:AS:8:GLY:O	19:AS:9:VAL:HG23	1.93	0.68
24:AY:29:ILE:HG12	24:AY:259:ALA:CB	2.24	0.68
25:B0:33:ALA:O	35:BA:2352:A:H2	1.76	0.68
25:B0:51:VAL:CG2	25:B0:80:HIS:HA	2.22	0.68
32:B7:43:THR:O	32:B7:44:PRO:C	2.34	0.68
35:BA:690:G:H21	38:BD:43:ARG:HH22	1.40	0.68
35:BA:1471:A:N6	35:BA:1519:G:H2'	2.08	0.68
35:BA:2186:G:H2'	35:BA:2187:G:C8	2.28	0.68
35:BA:2861:G:O2'	35:BA:2862:G:H5'	1.93	0.68
53:BV:99:ILE:HD13	53:BV:99:ILE:N	2.08	0.68
54:BW:5:ALA:HB2	54:BW:54:ALA:HB2	1.74	0.68
1:AA:706:A:C1'	11:AK:29:ILE:HD11	2.23	0.68
1:AA:719:C:C2	18:AR:50:ILE:HG12	2.28	0.68
1:AA:760:G:N2	17:AQ:94:ASN:HB3	2.07	0.68
1:AA:1192:C:O2'	5:AE:25:ARG:NH2	2.26	0.68
1:AA:1407:C:C2'	1:AA:1408:A:H5''	2.23	0.68
8:AH:2:LEU:HD21	8:AH:8:ASP:CB	2.23	0.68
8:AH:85:ARG:HH11	8:AH:85:ARG:HG3	1.59	0.68
9:AI:98:PRO:HB2	9:AI:99:LEU:HD22	1.74	0.68
20:AT:75:ASN:O	20:AT:79:ARG:HB2	1.94	0.68
22:AV:3:C:O2	35:BA:1851:U:H5''	1.94	0.68
24:AY:448:VAL:O	24:AY:452:ARG:HG2	1.93	0.68
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.59	0.68
35:BA:744:G:O2'	35:BA:745:G:H5'	1.94	0.68
35:BA:780:G:H21	35:BA:783:A:N6	1.91	0.68
35:BA:947:G:H2'	35:BA:948:G:H8	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1494:A:N3	35:BA:1494:A:H5'	2.08	0.68
35:BA:1567:A:H5'	38:BD:58:HIS:HD2	1.58	0.68
35:BA:1628:G:H2'	35:BA:1629:U:H6	1.58	0.68
35:BA:2110:G:H1	35:BA:2178:C:H41	1.40	0.68
35:BA:2181:G:O2'	35:BA:2182:G:H5'	1.94	0.68
35:BA:2616:C:H2'	35:BA:2617:C:C6	2.29	0.68
35:BA:2644:G:H2'	35:BA:2645:G:C8	2.28	0.68
38:BD:94:LEU:HD22	38:BD:95:LEU:N	2.07	0.68
38:BD:124:PRO:C	38:BD:129:ASN:HD22	2.01	0.68
45:BN:23:LEU:HB2	45:BN:99:LEU:HD21	1.76	0.68
48:BQ:12:GLN:OE1	48:BQ:72:LYS:HG3	1.93	0.68
52:BU:112:ARG:HH12	53:BV:46:VAL:CG1	2.00	0.68
55:BX:39:ILE:HG21	55:BX:54:VAL:HG11	1.75	0.68
56:BY:37:VAL:HG22	56:BY:67:LEU:O	1.92	0.68
1:AA:436:C:H5''	4:AD:156:GLU:OE1	1.92	0.68
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.29	0.68
2:AB:7:VAL:HG13	2:AB:11:LEU:CD1	2.23	0.68
3:AC:134:ILE:O	3:AC:138:VAL:HG12	1.93	0.68
7:AG:148:ASN:C	7:AG:150:ALA:N	2.51	0.68
15:AO:4:THR:CG2	15:AO:6:GLU:HB2	2.23	0.68
16:AP:11:SER:OG	16:AP:14:ASN:HB3	1.94	0.68
16:AP:67:THR:H	16:AP:70:ALA:HB3	1.58	0.68
27:B2:10:LEU:HD21	27:B2:59:ARG:CD	2.24	0.68
29:B4:36:CYS:O	29:B4:39:CYS:HB2	1.93	0.68
33:B8:4:MET:O	33:B8:62:LEU:HD11	1.93	0.68
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.24	0.68
35:BA:104:U:H2'	35:BA:105:C:H5'	1.76	0.68
35:BA:483:A:O3'	56:BY:49:VAL:HG22	1.94	0.68
35:BA:893:C:H2'	35:BA:894:C:H5'	1.73	0.68
35:BA:1331:A:HO2'	35:BA:1332:G:H8	1.39	0.68
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.21	0.68
35:BA:2157:G:O2'	35:BA:2158:A:H5'	1.93	0.68
35:BA:2422:A:H4'	35:BA:2423:U:OP1	1.94	0.68
36:BB:41:U:N3	41:BG:70:VAL:HB	2.07	0.68
37:BC:137:LEU:HD22	37:BC:138:PRO:CD	2.23	0.68
38:BD:160:GLY:N	38:BD:196:VAL:HG12	2.09	0.68
39:BE:117:MET:O	39:BE:121:ASN:HA	1.94	0.68
41:BG:52:ILE:HG12	41:BG:53:LEU:N	2.08	0.68
45:BN:65:LYS:HD3	45:BN:69:GLN:HE21	1.58	0.68
51:BT:65:LYS:HZ1	51:BT:66:VAL:H	1.38	0.68
52:BU:47:TYR:HA	52:BU:50:ARG:HD2	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1266:G:N2	1:AA:1268:A:C5'	2.55	0.68
3:AC:137:ALA:C	3:AC:139:GLN:H	2.02	0.68
3:AC:157:ILE:CB	3:AC:164:ARG:HH21	2.06	0.68
7:AG:72:ARG:O	7:AG:91:VAL:HG12	1.93	0.68
19:AS:51:VAL:HB	19:AS:58:VAL:HG22	1.75	0.68
22:AV:62:C:C2'	22:AV:63:G:H5''	2.23	0.68
27:B2:9:GLN:HG2	27:B2:56:GLN:NE2	2.09	0.68
34:B9:36:GLN:NE2	35:BA:1031:G:N2	2.38	0.68
35:BA:140:G:C1'	35:BA:141:A:H2	2.00	0.68
35:BA:144:C:H2'	35:BA:145:G:C8	2.29	0.68
35:BA:779:U:O2'	35:BA:780:G:H5'	1.93	0.68
35:BA:880:G:H1	35:BA:897:C:N4	1.88	0.68
35:BA:1654:A:P	49:BR:3:HIS:HB2	2.33	0.68
35:BA:1924:C:O2'	35:BA:1925:C:C6	2.46	0.68
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.93	0.68
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.75	0.68
35:BA:2306:C:N4	35:BA:2311:A:N7	2.41	0.68
35:BA:2504:U:O5'	35:BA:2504:U:H6	1.76	0.68
35:BA:2672:G:H3'	35:BA:2673:G:H5''	1.74	0.68
35:BA:2807:G:C2'	35:BA:2808:U:H5''	2.24	0.68
38:BD:24:ILE:HD13	38:BD:84:TYR:N	2.08	0.68
38:BD:79:VAL:HG23	38:BD:114:GLY:H	1.58	0.68
38:BD:92:ILE:HA	38:BD:107:ALA:N	2.08	0.68
40:BF:19:GLU:O	40:BF:20:LEU:HD23	1.92	0.68
40:BF:154:VAL:HG12	40:BF:155:LEU:N	2.08	0.68
45:BN:69:GLN:O	45:BN:71:ILE:HG13	1.94	0.68
46:BO:6:THR:O	46:BO:20:MET:HA	1.93	0.68
53:BV:40:LEU:CD2	53:BV:47:VAL:HG22	2.22	0.68
1:AA:619:U:C2	4:AD:135:LEU:HD11	2.28	0.68
1:AA:1325:C:OP1	21:AU:15:ARG:NH2	2.26	0.68
1:AA:1327:C:H2'	1:AA:1328:C:H6	1.58	0.68
2:AB:130:ARG:HA	2:AB:130:ARG:HE	1.57	0.68
3:AC:43:LEU:C	3:AC:45:LYS:H	1.99	0.68
14:AN:50:LYS:O	14:AN:52:GLN:HG2	1.94	0.68
19:AS:63:THR:HG22	19:AS:66:MET:CG	2.24	0.68
20:AT:48:LYS:O	20:AT:52:ALA:HB2	1.92	0.68
22:AV:76:A:P	35:BA:2432:A:H4'	2.34	0.68
24:AY:401:ILE:HD13	24:AY:462:VAL:O	1.93	0.68
32:B7:7:PRO:HA	35:BA:686:G:C8	2.28	0.68
35:BA:61:G:H1	35:BA:94:C:N4	1.91	0.68
35:BA:972:G:H2'	35:BA:973:A:N7	2.09	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1058:G:H2'	35:BA:1059:G:C5'	2.24	0.68
35:BA:1427:A:C1'	35:BA:1428:C:C5	2.77	0.68
36:BB:17:C:O2'	36:BB:18:G:H5'	1.93	0.68
39:BE:113:PHE:CE1	39:BE:158:GLY:HA2	2.28	0.68
39:BE:195:LEU:HD11	39:BE:197:ILE:CG2	2.23	0.68
40:BF:7:TYR:OH	40:BF:10:PRO:HB3	1.93	0.68
40:BF:65:TRP:CH2	40:BF:72:ARG:HB3	2.29	0.68
47:BP:38:GLN:OE1	47:BP:41:ARG:HD3	1.94	0.68
47:BP:97:PRO:HA	47:BP:100:LEU:HD23	1.76	0.68
48:BQ:67:ARG:HH11	48:BQ:67:ARG:CB	2.06	0.68
48:BQ:140:ALA:HB1	57:BZ:99:TYR:CD2	2.28	0.68
49:BR:44:LEU:HD13	49:BR:44:LEU:O	1.94	0.68
50:BS:49:VAL:HG12	50:BS:50:SER:H	1.57	0.68
57:BZ:113:ALA:O	57:BZ:114:GLY:C	2.36	0.68
1:AA:910:C:O2'	1:AA:911:U:H5'	1.94	0.68
1:AA:978:A:N6	1:AA:1318:A:N7	2.42	0.68
1:AA:1220:G:H21	19:AS:54:GLY:CA	2.06	0.68
1:AA:1228:C:OP1	13:AM:108:ARG:NH2	2.27	0.68
2:AB:187:LEU:HD11	2:AB:204:ASN:O	1.93	0.68
3:AC:11:ARG:NH2	3:AC:182:ILE:HD12	2.08	0.68
3:AC:53:ALA:O	3:AC:54:ARG:O	2.12	0.68
8:AH:85:ARG:NH1	8:AH:87:SER:O	2.27	0.68
9:AI:118:LYS:O	9:AI:119:ALA:CB	2.42	0.68
10:AJ:69:ASN:O	10:AJ:70:ARG:HD3	1.94	0.68
10:AJ:75:ILE:O	10:AJ:77:PRO:HD3	1.94	0.68
13:AM:75:ALA:CB	13:AM:79:LYS:HE3	2.22	0.68
24:AY:27:THR:HG1	24:AY:69:SER:HG	1.35	0.68
24:AY:331:LEU:CB	24:AY:379:PHE:HE2	1.99	0.68
24:AY:446:PHE:O	24:AY:449:VAL:CG2	2.42	0.68
28:B3:6:VAL:HA	28:B3:55:ARG:O	1.93	0.68
29:B4:40:HIS:HD2	29:B4:42:PHE:CD1	2.11	0.68
35:BA:64:A:O3'	55:BX:71:GLY:HA3	1.94	0.68
35:BA:977:G:H2'	35:BA:978:G:H8	1.59	0.68
35:BA:1498:C:C2'	35:BA:1499:C:H5''	2.23	0.68
35:BA:1537:G:H2'	35:BA:1538:G:C8	2.29	0.68
35:BA:2248:C:H2'	35:BA:2249:U:O4'	1.94	0.68
37:BC:3:HIS:HB3	37:BC:7:TYR:CD2	2.28	0.68
38:BD:176:ARG:C	38:BD:177:LEU:HD23	2.19	0.68
38:BD:252:TRP:CD1	38:BD:252:TRP:H	2.11	0.68
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.94	0.68
45:BN:36:GLY:H	45:BN:49:GLY:HA2	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:24:VAL:O	46:BO:26:LYS:N	2.26	0.68
48:BQ:52:VAL:O	48:BQ:55:VAL:HG13	1.94	0.68
52:BU:36:ARG:CB	52:BU:36:ARG:NH1	2.57	0.68
54:BW:18:ARG:NH1	54:BW:76:VAL:O	2.25	0.68
56:BY:54:LYS:HE3	56:BY:55:TYR:CE2	2.28	0.68
1:AA:40:C:H2'	1:AA:41:G:H8	1.59	0.68
1:AA:977:A:N3	1:AA:977:A:C2'	2.57	0.68
8:AH:11:THR:C	8:AH:13:ILE:N	2.50	0.68
16:AP:71:ARG:HA	16:AP:74:LEU:HD12	1.75	0.68
24:AY:78:PRO:HA	24:AY:83:LEU:HA	1.76	0.68
24:AY:399:ARG:HA	24:AY:466:VAL:CG2	2.24	0.68
24:AY:445:GLN:HA	24:AY:448:VAL:HG23	1.76	0.68
27:B2:41:ILE:HG13	27:B2:42:GLY:H	1.59	0.68
35:BA:631:A:H5''	47:BP:65:ARG:HH11	1.56	0.68
35:BA:631:A:H2'	35:BA:632:A:O4'	1.94	0.68
35:BA:1814:G:H4'	38:BD:51:VAL:HG21	1.76	0.68
35:BA:2787:C:O2	39:BE:61:ARG:NH1	2.27	0.68
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.25	0.68
36:BB:82:G:H2'	36:BB:83:G:H8	1.58	0.68
36:BB:111:G:O2'	36:BB:112:U:H5'	1.93	0.68
38:BD:169:GLU:O	38:BD:172:TYR:N	2.27	0.68
39:BE:68:ALA:C	39:BE:70:ALA:H	2.02	0.68
47:BP:47:ASP:HB2	47:BP:51:PHE:HD2	1.58	0.68
49:BR:48:VAL:CA	49:BR:51:LEU:HB2	2.24	0.68
52:BU:17:ILE:HD12	52:BU:17:ILE:N	2.08	0.68
52:BU:65:ILE:HD11	52:BU:96:ALA:HB3	1.76	0.68
57:BZ:119:GLU:HG3	57:BZ:122:ARG:NE	2.09	0.68
1:AA:59:A:H1'	1:AA:354:G:N2	2.09	0.67
1:AA:398:C:H6	1:AA:398:C:H3'	1.58	0.67
1:AA:807:A:H2'	1:AA:808:C:H6	1.58	0.67
1:AA:881:G:O2'	1:AA:882:C:H5'	1.94	0.67
1:AA:1117:G:N1	1:AA:1184:G:C6	2.62	0.67
1:AA:1118:C:N3	1:AA:1155:G:N2	2.39	0.67
2:AB:200:ILE:H	2:AB:200:ILE:HD12	1.59	0.67
5:AE:115:VAL:O	5:AE:116:THR:HG23	1.94	0.67
7:AG:118:VAL:CG2	7:AG:119:ARG:H	2.07	0.67
8:AH:119:LEU:CD2	8:AH:123:GLU:HB3	2.24	0.67
11:AK:29:ILE:HA	11:AK:44:SER:HB3	1.77	0.67
15:AO:54:ARG:O	15:AO:58:MET:SD	2.52	0.67
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	1.93	0.67
19:AS:45:VAL:HB	19:AS:63:THR:O	1.93	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:349:MET:SD	24:AY:356:VAL:HA	2.34	0.67
29:B4:5:ILE:HG12	29:B4:5:ILE:O	1.94	0.67
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.29	0.67
35:BA:2287:A:H62	35:BA:2344:U:H3	1.42	0.67
35:BA:2521:C:C2	35:BA:2545:G:N2	2.62	0.67
35:BA:2734:A:H62	35:BA:2770:G:H21	1.42	0.67
37:BC:100:ILE:CG1	37:BC:127:MET:HE2	2.21	0.67
38:BD:43:ARG:HB3	38:BD:54:ARG:O	1.94	0.67
38:BD:108:PRO:HB3	38:BD:143:HIS:NE2	2.07	0.67
39:BE:171:GLU:O	39:BE:173:VAL:N	2.23	0.67
40:BF:18:ARG:CZ	40:BF:199:TRP:HZ3	2.07	0.67
40:BF:23:ASP:O	40:BF:115:ALA:HB2	1.94	0.67
45:BN:18:ALA:HB3	45:BN:26:LEU:HD21	1.77	0.67
48:BQ:34:LEU:HA	48:BQ:130:LYS:O	1.94	0.67
49:BR:17:ARG:HH11	49:BR:17:ARG:CB	2.07	0.67
49:BR:47:PHE:O	49:BR:51:LEU:HD13	1.95	0.67
50:BS:101:LEU:C	50:BS:102:ALA:O	2.33	0.67
54:BW:69:LEU:HA	54:BW:108:GLY:O	1.93	0.67
55:BX:8:ILE:HD12	55:BX:8:ILE:N	2.07	0.67
1:AA:398:C:H3'	1:AA:398:C:C6	2.28	0.67
1:AA:633:G:H3'	1:AA:634:C:C6	2.28	0.67
1:AA:979:C:H41	1:AA:1360:A:H62	1.40	0.67
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.29	0.67
1:AA:1314:C:O2'	1:AA:1315:U:H5'	1.94	0.67
4:AD:61:LYS:CA	4:AD:203:VAL:HG22	2.24	0.67
7:AG:50:ILE:HA	7:AG:125:MET:HE3	1.73	0.67
11:AK:29:ILE:HA	11:AK:44:SER:CB	2.24	0.67
11:AK:111:ASP:O	11:AK:112:THR:C	2.37	0.67
12:AL:41:ARG:O	12:AL:42:THR:HB	1.92	0.67
15:AO:39:LEU:HD13	15:AO:56:LEU:HD23	1.75	0.67
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.19	0.67
22:AV:49:G:H2'	22:AV:50:U:H6	1.59	0.67
26:B1:89:GLU:HA	26:B1:92:LYS:HE3	1.77	0.67
33:B8:8:LYS:NZ	33:B8:11:LYS:CE	2.57	0.67
35:BA:239:U:H1'	35:BA:259:G:N2	2.08	0.67
35:BA:361:G:H2'	35:BA:362:U:H4'	1.76	0.67
35:BA:1030:G:OP2	48:BQ:128:LYS:HE2	1.93	0.67
35:BA:1440:G:O2'	35:BA:1441:G:H5'	1.94	0.67
35:BA:1915:U:C2'	35:BA:1916:A:O5'	2.42	0.67
35:BA:1998:G:C2'	35:BA:1999:C:H5'	2.24	0.67
35:BA:2746:U:H2'	35:BA:2747:G:C5'	2.20	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:156:LEU:HD12	40:BF:157:VAL:N	2.09	0.67
42:BH:40:GLU:HA	42:BH:40:GLU:OE1	1.93	0.67
45:BN:27:ALA:HA	45:BN:30:ILE:CD1	2.21	0.67
45:BN:35:ARG:O	45:BN:37:LYS:N	2.27	0.67
46:BO:33:ALA:HA	46:BO:37:ASP:OD2	1.94	0.67
47:BP:111:ARG:HA	47:BP:128:HIS:CD2	2.29	0.67
48:BQ:60:ARG:HB3	48:BQ:60:ARG:NH1	2.08	0.67
49:BR:60:LEU:O	49:BR:63:ARG:HB3	1.94	0.67
50:BS:13:ARG:O	50:BS:14:VAL:HB	1.94	0.67
50:BS:53:SER:C	50:BS:55:ALA:N	2.40	0.67
57:BZ:42:VAL:HG13	57:BZ:43:GLU:N	2.09	0.67
57:BZ:56:VAL:CG2	57:BZ:70:LEU:HD13	2.18	0.67
1:AA:778:G:H2'	1:AA:779:C:C6	2.29	0.67
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.76	0.67
1:AA:1506:U:O2'	1:AA:1507:A:H5'	1.93	0.67
3:AC:86:VAL:HG23	3:AC:87:LEU:CD2	2.25	0.67
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.09	0.67
19:AS:20:LEU:HA	19:AS:23:ASN:CB	2.24	0.67
31:B6:15:GLU:OE2	31:B6:41:PRO:HB3	1.93	0.67
35:BA:233:A:H2'	35:BA:234:C:C6	2.29	0.67
35:BA:852:G:H2'	35:BA:853:G:H8	1.60	0.67
35:BA:861:A:H2	35:BA:862:G:H1'	1.59	0.67
35:BA:952:G:C4	35:BA:966:G:N2	2.61	0.67
35:BA:1068:G:N7	44:BK:25:UNK:C	2.56	0.67
35:BA:1786:A:H3'	35:BA:1787:A:N7	2.09	0.67
35:BA:1915:U:O2'	35:BA:1916:A:C5'	2.40	0.67
35:BA:2101:G:C2'	35:BA:2102:U:H5''	2.25	0.67
35:BA:2692:C:H1'	35:BA:2847:U:O2'	1.95	0.67
41:BG:51:ARG:HA	41:BG:51:ARG:NE	2.08	0.67
41:BG:130:ASN:HB3	41:BG:160:VAL:HA	1.76	0.67
47:BP:16:ARG:HD3	47:BP:18:ARG:N	2.09	0.67
49:BR:29:LEU:HD21	49:BR:52:ILE:HD11	1.75	0.67
57:BZ:151:HIS:CB	57:BZ:170:THR:HA	2.24	0.67
1:AA:17:U:H2'	1:AA:18:C:C6	2.28	0.67
1:AA:1265:G:C6	1:AA:1266:G:O6	2.47	0.67
1:AA:1284:C:C2	1:AA:1285:A:N7	2.62	0.67
1:AA:1304:G:H1'	1:AA:1334:G:H22	1.60	0.67
1:AA:1350:A:OP2	9:AI:121:ARG:HG3	1.94	0.67
2:AB:97:TRP:CH2	2:AB:176:GLU:HG3	2.29	0.67
3:AC:74:GLY:HA2	3:AC:77:ILE:HD12	1.75	0.67
9:AI:34:ASN:O	9:AI:38:GLN:HB2	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:5:ARG:O	16:AP:6:LEU:HD12	1.93	0.67
18:AR:72:ARG:O	18:AR:76:LEU:HD23	1.93	0.67
24:AY:10:VAL:O	24:AY:279:PRO:HD3	1.94	0.67
24:AY:25:GLY:HA3	24:AY:29:ILE:HG13	1.74	0.67
24:AY:86:LEU:CD1	24:AY:88:ASP:H	2.07	0.67
24:AY:108:CYS:HA	24:AY:135:THR:CG2	2.25	0.67
24:AY:299:PHE:H	24:AY:299:PHE:HD2	1.42	0.67
25:B0:43:THR:H	35:BA:2331:G:C4'	1.95	0.67
28:B3:6:VAL:HB	28:B3:54:VAL:CG1	2.24	0.67
33:B8:52:LYS:O	33:B8:56:GLU:OE1	2.12	0.67
35:BA:315:G:H2'	35:BA:316:C:C6	2.29	0.67
35:BA:614:U:H1'	35:BA:614(C):A:N7	2.09	0.67
35:BA:1053:C:H2'	35:BA:1054:A:H8	1.59	0.67
35:BA:2110:G:O2'	35:BA:2111:C:OP1	2.12	0.67
35:BA:2454:G:O2'	35:BA:2455:G:H5'	1.94	0.67
37:BC:10:LEU:HD12	37:BC:32:LEU:CA	2.24	0.67
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.08	0.67
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.04	0.67
42:BH:59:ARG:HB2	42:BH:59:ARG:HH11	1.60	0.67
44:BK:5:UNK:O	44:BK:7:UNK:N	2.27	0.67
51:BT:50:ILE:HA	51:BT:99:LEU:CD1	2.23	0.67
51:BT:92:GLY:C	51:BT:94:ALA:H	2.02	0.67
1:AA:577:G:N2	1:AA:765:G:H1'	2.09	0.67
1:AA:778:G:H2'	1:AA:779:C:H6	1.59	0.67
2:AB:7:VAL:HG13	2:AB:11:LEU:HD12	1.76	0.67
2:AB:219:VAL:O	2:AB:223:ILE:HG13	1.94	0.67
3:AC:116:VAL:HG21	3:AC:202:ILE:HD11	1.76	0.67
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.07	0.67
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.10	0.67
15:AO:42:HIS:C	15:AO:42:HIS:CD2	2.72	0.67
17:AQ:62:SER:CB	17:AQ:72:ARG:HG3	2.24	0.67
24:AY:164:ILE:HG12	24:AY:252:THR:CG2	2.24	0.67
35:BA:110:G:O2'	35:BA:111:A:H5'	1.93	0.67
35:BA:872:A:H5'	48:BQ:69:PHE:CE2	2.26	0.67
35:BA:1969:A:O2'	35:BA:1972:A:H1'	1.94	0.67
35:BA:2131:G:H4'	35:BA:2132:U:OP2	1.92	0.67
35:BA:2307:G:H21	35:BA:2308:G:C5'	2.07	0.67
35:BA:2367:G:O2'	35:BA:2368:C:H5'	1.94	0.67
38:BD:136:ILE:HD12	38:BD:191:ALA:HB3	1.75	0.67
39:BE:7:VAL:C	39:BE:26:ILE:HG22	2.19	0.67
41:BG:67:LYS:HZ2	41:BG:67:LYS:H	1.43	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:51:ARG:HD3	51:BT:62:THR:HG21	1.76	0.67
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.74	0.67
1:AA:1405:G:H1'	1:AA:1519:A:C4'	2.25	0.67
1:AA:1491:G:C3'	1:AA:1492:A:C8	2.77	0.67
2:AB:155:LEU:CD2	2:AB:159:PRO:HG3	2.21	0.67
3:AC:137:ALA:HA	3:AC:140:ARG:CZ	2.25	0.67
4:AD:18:LYS:HG3	4:AD:33:MET:HB3	1.76	0.67
4:AD:173:TRP:HA	4:AD:187:ARG:HH12	1.58	0.67
6:AF:45:LEU:HD13	6:AF:59:TYR:HD1	1.59	0.67
15:AO:33:THR:CG2	15:AO:34:LEU:N	2.58	0.67
15:AO:56:LEU:O	15:AO:59:MET:HB2	1.94	0.67
15:AO:85:LEU:N	15:AO:85:LEU:CD2	2.58	0.67
22:AV:1:C:H42	22:AV:72:A:H61	1.42	0.67
24:AY:260:LEU:HD21	35:BA:2655:G:H5''	1.77	0.67
24:AY:308:ASP:O	24:AY:309:PRO:C	2.36	0.67
29:B4:35:VAL:HG12	29:B4:36:CYS:H	1.59	0.67
31:B6:18:ARG:HG2	31:B6:18:ARG:NH1	2.08	0.67
33:B8:23:VAL:HG13	33:B8:47:LYS:O	1.95	0.67
35:BA:193:U:C2'	35:BA:194:G:H5'	2.24	0.67
35:BA:289:A:H61	35:BA:351:G:H1'	1.59	0.67
35:BA:1190:G:H2'	35:BA:1191:G:H8	1.57	0.67
35:BA:1248:G:P	40:BF:92:PRO:HG3	2.35	0.67
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.09	0.67
35:BA:2758:A:H62	42:BH:67:LEU:HD11	1.55	0.67
36:BB:10:C:O2'	36:BB:11:C:H5'	1.94	0.67
39:BE:16:ARG:O	39:BE:17:ASP:C	2.38	0.67
39:BE:60:ASN:OD1	39:BE:61:ARG:N	2.26	0.67
39:BE:112:GLY:O	39:BE:114:ALA:N	2.27	0.67
45:BN:66:LYS:HB3	45:BN:70:LYS:HB2	1.75	0.67
46:BO:24:VAL:O	46:BO:24:VAL:HG23	1.94	0.67
1:AA:580:U:C5'	15:AO:58:MET:HE3	2.24	0.67
1:AA:687:A:O2'	1:AA:688:G:OP2	2.10	0.67
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.95	0.67
2:AB:63:MET:O	2:AB:64:ARG:C	2.38	0.67
13:AM:3:ARG:C	13:AM:4:ILE:HG13	2.20	0.67
19:AS:23:ASN:OD1	29:B4:47:GLN:HG3	1.95	0.67
19:AS:44:MET:HA	29:B4:47:GLN:OE1	1.95	0.67
33:B8:8:LYS:HZ3	33:B8:11:LYS:HZ3	0.78	0.67
35:BA:668:G:H2'	35:BA:670:A:H62	1.60	0.67
35:BA:1439:A:H2'	35:BA:1440:G:O4'	1.95	0.67
35:BA:2562:U:C2'	35:BA:2563:U:H5'	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2580:U:C5	35:BA:2581:G:C6	2.82	0.67
35:BA:2826:A:H2'	35:BA:2827:C:C6	2.29	0.67
37:BC:29:VAL:HG12	37:BC:222:VAL:HG21	1.75	0.67
39:BE:68:ALA:O	39:BE:70:ALA:N	2.26	0.67
41:BG:115:ARG:NH2	41:BG:136:ARG:HD2	2.08	0.67
45:BN:5:VAL:CG1	45:BN:7:LYS:HG3	2.20	0.67
47:BP:47:ASP:OD1	47:BP:49:ARG:HG3	1.95	0.67
49:BR:21:TYR:O	49:BR:25:ALA:HB2	1.93	0.67
50:BS:46:VAL:HG12	50:BS:47:THR:N	2.08	0.67
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG12	1.76	0.67
57:BZ:152:ALA:O	57:BZ:155:LEU:HD21	1.95	0.67
1:AA:175:C:H4'	20:AT:25:ARG:NH1	2.09	0.67
1:AA:404:U:C2	1:AA:405:U:C5	2.83	0.67
2:AB:92:TYR:CE1	2:AB:150:SER:HB2	2.30	0.67
2:AB:92:TYR:CZ	2:AB:150:SER:HB2	2.30	0.67
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	1.95	0.67
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.63	0.67
10:AJ:43:ARG:O	10:AJ:67:THR:HG22	1.93	0.67
10:AJ:49:VAL:HG21	14:AN:41:ARG:HB2	1.77	0.67
10:AJ:65:LEU:O	10:AJ:65:LEU:HG	1.95	0.67
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.94	0.67
19:AS:10:PHE:HE1	19:AS:70:LYS:HD2	1.59	0.67
20:AT:18:GLN:HG2	20:AT:22:ARG:NH1	2.10	0.67
22:AV:49:G:N2	22:AV:50:U:H1'	2.09	0.67
22:AV:51:C:C2	22:AV:52:G:N7	2.63	0.67
24:AY:135:THR:O	24:AY:137:ILE:HG13	1.95	0.67
24:AY:168:PRO:HB2	24:AY:171:TRP:CZ2	2.28	0.67
24:AY:413:LEU:HD11	24:AY:429:ARG:HD3	1.77	0.67
35:BA:1064:C:H3'	35:BA:1065:U:H5''	1.77	0.67
35:BA:1691:C:H2'	35:BA:1692:U:H6	1.59	0.67
35:BA:1802:A:N1	35:BA:1822:G:H1'	2.10	0.67
35:BA:2149:G:O2'	35:BA:2150:U:H5'	1.95	0.67
35:BA:2223:G:H4'	38:BD:269:PHE:CZ	2.30	0.67
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.29	0.67
35:BA:2312:U:OP1	41:BG:73:ALA:HA	1.95	0.67
35:BA:2446:G:C2	35:BA:2501:C:C5	2.82	0.67
38:BD:69:ARG:CD	38:BD:105:ILE:HD11	2.25	0.67
39:BE:87:GLU:O	39:BE:87:GLU:HG3	1.95	0.67
41:BG:11:TYR:HD1	41:BG:15:VAL:HB	1.59	0.67
42:BH:41:MET:HE2	42:BH:43:VAL:HG13	1.77	0.67
50:BS:73:LEU:O	50:BS:73:LEU:HD23	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:83:LEU:HG	52:BU:88:ILE:HD11	1.75	0.67
56:BY:81:LYS:HD2	56:BY:96:ILE:HD12	1.77	0.67
57:BZ:68:PRO:C	57:BZ:91:LEU:HD12	2.20	0.67
57:BZ:124:ILE:O	57:BZ:126:VAL:HG13	1.95	0.67
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.60	0.67
1:AA:1407:C:C2'	1:AA:1408:A:C5'	2.73	0.67
7:AG:99:LEU:HD23	7:AG:102:ARG:NH2	2.09	0.67
8:AH:5:PRO:HD2	8:AH:6:ILE:CD1	2.24	0.67
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.76	0.67
11:AK:63:LEU:HA	11:AK:66:LEU:HD11	1.76	0.67
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	1.94	0.67
20:AT:49:ALA:O	20:AT:52:ALA:HB3	1.94	0.67
22:AV:14:A:N3	22:AV:15:G:H1'	2.10	0.67
24:AY:472:ARG:HG3	24:AY:523:PHE:CZ	2.30	0.67
26:B1:35:THR:HG21	35:BA:2080:G:OP1	1.95	0.67
30:B5:3:LYS:HD3	35:BA:747:U:OP2	1.95	0.67
35:BA:266:G:H2'	35:BA:267:C:H5''	1.77	0.67
35:BA:531:C:O2'	35:BA:563:G:H5''	1.94	0.67
35:BA:906:G:H4'	48:BQ:67:ARG:NH2	2.09	0.67
35:BA:1826:G:H4'	38:BD:242:ARG:CZ	2.25	0.67
35:BA:2745:C:O2'	42:BH:142:GLY:HA3	1.94	0.67
37:BC:77:ILE:O	37:BC:78:ALA:O	2.13	0.67
37:BC:175:VAL:HG21	37:BC:189:ILE:CG1	2.15	0.67
38:BD:82:ILE:HA	38:BD:93:ALA:HA	1.77	0.67
39:BE:25:VAL:HG22	39:BE:183:LEU:HD11	1.76	0.67
41:BG:60:LEU:HD22	41:BG:63:ILE:CD1	2.24	0.67
42:BH:12:PRO:HD2	42:BH:15:VAL:CG1	2.25	0.67
47:BP:65:ARG:HB3	47:BP:68:GLN:HE22	1.58	0.67
47:BP:100:LEU:CB	47:BP:106:LEU:HD22	2.24	0.67
48:BQ:21:THR:CG2	48:BQ:101:ARG:HD2	2.25	0.67
53:BV:74:LYS:O	53:BV:75:PHE:HB3	1.95	0.67
1:AA:291:C:H2'	1:AA:292:G:H8	1.60	0.67
1:AA:838:G:C2'	1:AA:839:U:H5''	2.24	0.67
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.60	0.67
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.30	0.67
7:AG:78:ARG:O	7:AG:78:ARG:HG3	1.94	0.67
8:AH:114:THR:OG1	8:AH:119:LEU:HD12	1.94	0.67
12:AL:34:ARG:HD3	12:AL:105:TYR:CZ	2.30	0.67
12:AL:40:VAL:HG12	12:AL:40:VAL:O	1.95	0.67
15:AO:45:VAL:HG13	15:AO:46:HIS:CD2	2.29	0.67
18:AR:54:ARG:O	18:AR:55:ARG:HG2	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:67:C:H2'	22:AV:68:C:H6	1.59	0.67
24:AY:18:ILE:CD1	24:AY:30:THR:OG1	2.43	0.67
27:B2:2:LYS:HZ3	27:B2:5:GLU:CD	2.03	0.67
35:BA:884:C:O5'	35:BA:884:C:H6	1.78	0.67
35:BA:1135:C:C2	35:BA:1137:G:OP2	2.48	0.67
35:BA:2053:G:H4'	39:BE:145:LYS:HA	1.77	0.67
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.60	0.67
35:BA:2835:A:N6	35:BA:2878:U:H3'	2.10	0.67
37:BC:100:ILE:HG22	37:BC:100:ILE:O	1.94	0.67
38:BD:111:LEU:CD1	38:BD:115:GLN:NE2	2.58	0.67
40:BF:185:ASP:HA	40:BF:188:ARG:CD	2.23	0.67
41:BG:171:ALA:HA	41:BG:174:GLU:HB3	1.77	0.67
42:BH:66:GLY:C	42:BH:69:ARG:HB2	2.20	0.67
47:BP:112:LEU:N	47:BP:128:HIS:HD2	1.93	0.67
51:BT:89:VAL:HG21	51:BT:91:ARG:NH2	2.10	0.67
53:BV:21:ARG:HG2	53:BV:91:TYR:CG	2.30	0.67
57:BZ:54:HIS:HA	57:BZ:98:MET:HE1	1.77	0.67
1:AA:539:A:OP2	12:AL:115:LYS:HE3	1.94	0.66
1:AA:979:C:O2	14:AN:19:ARG:NE	2.27	0.66
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.13	0.66
2:AB:187:LEU:CD2	2:AB:201:ILE:O	2.43	0.66
4:AD:180:GLY:O	4:AD:181:MET:HB2	1.94	0.66
17:AQ:59:ILE:CD1	17:AQ:73:VAL:HA	2.24	0.66
18:AR:40:LEU:O	18:AR:43:PHE:HB2	1.96	0.66
31:B6:8:LYS:HE2	35:BA:2285:C:OP2	1.95	0.66
32:B7:16:HIS:HA	32:B7:21:ARG:NH1	2.09	0.66
35:BA:305:U:H2'	35:BA:306:U:C6	2.30	0.66
35:BA:491:G:H2'	35:BA:492:A:O4'	1.94	0.66
35:BA:748:G:H5''	35:BA:2612:C:N4	2.10	0.66
35:BA:864:G:N7	48:BQ:22:LYS:NZ	2.42	0.66
35:BA:1999:C:H2'	35:BA:2000:G:H8	1.60	0.66
35:BA:2319:G:H22	35:BA:2334:G:P	2.17	0.66
35:BA:2355:C:H2'	35:BA:2355:C:O2	1.95	0.66
35:BA:2525:G:O2'	35:BA:2526:G:H5'	1.95	0.66
35:BA:2553:G:H3'	35:BA:2554:U:H5''	1.75	0.66
35:BA:2817:G:H2'	35:BA:2818:G:O4'	1.94	0.66
35:BA:2841:C:H2'	35:BA:2842:G:H8	1.60	0.66
38:BD:213:ARG:NH1	38:BD:219:PRO:CD	2.53	0.66
39:BE:14:ILE:HD11	39:BE:173:VAL:HG11	1.77	0.66
40:BF:125:LEU:N	40:BF:125:LEU:HD23	2.09	0.66
47:BP:85:LEU:HA	47:BP:88:LEU:CB	2.25	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:24:LEU:CB	50:BS:85:VAL:HG12	2.26	0.66
50:BS:51:ALA:CB	50:BS:73:LEU:HB2	2.25	0.66
52:BU:57:PHE:HB3	52:BU:61:TRP:CE2	2.30	0.66
53:BV:2:PHE:CZ	53:BV:13:ARG:HD2	2.30	0.66
57:BZ:24:LEU:HD21	57:BZ:86:VAL:CG2	2.25	0.66
1:AA:974:A:N7	14:AN:31:ARG:NH1	2.43	0.66
1:AA:1204:A:H2'	1:AA:1205:U:O4'	1.94	0.66
5:AE:118:ILE:HG12	5:AE:119:LEU:N	2.10	0.66
12:AL:25:PRO:C	12:AL:27:LEU:H	2.01	0.66
12:AL:35:GLY:HA2	12:AL:59:ARG:O	1.95	0.66
15:AO:38:ARG:O	15:AO:42:HIS:N	2.28	0.66
35:BA:118:A:OP2	35:BA:119:A:H2'	1.94	0.66
35:BA:565:C:OP2	53:BV:78:LYS:N	2.27	0.66
35:BA:909:A:O2'	35:BA:911:A:OP2	2.12	0.66
35:BA:1486:A:N6	35:BA:1504:C:H42	1.93	0.66
35:BA:1865:G:H5'	35:BA:1866:C:P	2.34	0.66
35:BA:2153:G:N2	35:BA:2154:G:H1'	2.09	0.66
39:BE:23:VAL:HG12	39:BE:184:VAL:O	1.93	0.66
40:BF:122:LYS:HB3	40:BF:191:ARG:HG3	1.77	0.66
42:BH:118:PRO:HD2	42:BH:121:ILE:HG21	1.77	0.66
51:BT:83:ILE:HG13	51:BT:84:GLN:N	2.09	0.66
52:BU:101:ARG:O	52:BU:103:PRO:CD	2.36	0.66
57:BZ:41:LEU:O	57:BZ:44:PHE:HB3	1.94	0.66
1:AA:28:G:N2	1:AA:556:C:C2	2.63	0.66
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.30	0.66
2:AB:39:ILE:O	2:AB:41:ILE:HD12	1.95	0.66
5:AE:91:LEU:HD13	5:AE:120:THR:OG1	1.95	0.66
8:AH:13:ILE:C	8:AH:17:THR:HG23	2.20	0.66
11:AK:126:ARG:O	11:AK:128:ALA:N	2.28	0.66
15:AO:16:ALA:HB1	15:AO:21:ASP:OD1	1.96	0.66
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.10	0.66
24:AY:21:HIS:CG	24:AY:22:PRO:CD	2.79	0.66
26:B1:58:ILE:HD11	26:B1:91:LYS:HB2	1.77	0.66
35:BA:472:A:H2'	35:BA:473:G:H5'	1.77	0.66
35:BA:485:C:H2'	35:BA:486:C:C6	2.30	0.66
35:BA:1331:A:O2'	35:BA:1332:G:H8	1.76	0.66
35:BA:2514:U:O2'	35:BA:2515:C:H5'	1.95	0.66
35:BA:2559:C:H2'	35:BA:2560:C:H6	1.60	0.66
37:BC:47:LEU:HD11	37:BC:171:ILE:CG1	2.25	0.66
38:BD:24:ILE:HG23	38:BD:83:GLU:HA	1.77	0.66
38:BD:90:ALA:HB3	38:BD:106:ILE:HG23	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:186:HIS:NE2	38:BD:188:GLU:CD	2.53	0.66
52:BU:13:LYS:O	52:BU:16:LYS:HB2	1.95	0.66
52:BU:47:TYR:O	52:BU:51:LYS:HG2	1.95	0.66
56:BY:25:GLY:CA	56:BY:40:GLU:HG2	2.25	0.66
1:AA:427:U:OP1	4:AD:41:GLY:N	2.29	0.66
1:AA:506:G:H2'	1:AA:507:C:C6	2.30	0.66
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.31	0.66
2:AB:43:ASP:O	2:AB:44:LEU:C	2.39	0.66
2:AB:102:LEU:HD12	2:AB:102:LEU:N	2.11	0.66
4:AD:187:ARG:HB3	4:AD:187:ARG:HH11	1.59	0.66
6:AF:80:ARG:HG2	6:AF:88:VAL:CG2	2.25	0.66
13:AM:22:ILE:CB	13:AM:25:ILE:HD12	2.24	0.66
14:AN:12:ARG:HH11	14:AN:14:PRO:HG2	1.57	0.66
24:AY:402:ARG:C	24:AY:461:ALA:HB1	2.21	0.66
31:B6:15:GLU:HB2	31:B6:20:ASN:HB3	1.78	0.66
35:BA:271(L):U:C5'	35:BA:271(M):G:H5'	2.22	0.66
35:BA:303:U:H2'	35:BA:304:G:H8	1.60	0.66
35:BA:470:A:H2'	35:BA:471:A:O4'	1.96	0.66
35:BA:682:G:O2'	35:BA:683:C:H5'	1.94	0.66
35:BA:696:G:H2'	35:BA:696:G:N3	2.11	0.66
35:BA:762:U:H5'	35:BA:763:G:C2	2.29	0.66
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.55	0.66
35:BA:2378:A:C2	50:BS:19:LYS:HE3	2.30	0.66
35:BA:2870:C:OP1	49:BR:61:HIS:HE1	1.78	0.66
37:BC:103:ILE:HB	37:BC:127:MET:SD	2.35	0.66
38:BD:9:TYR:OH	38:BD:13:ARG:CD	2.43	0.66
38:BD:9:TYR:CD1	38:BD:10:THR:N	2.54	0.66
39:BE:107:THR:HA	39:BE:163:GLU:O	1.95	0.66
40:BF:126:VAL:HG21	40:BF:129:PHE:CZ	2.30	0.66
42:BH:94:TYR:HB3	42:BH:107:VAL:HB	1.78	0.66
50:BS:88:ASP:CG	50:BS:89:ARG:N	2.53	0.66
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ3	1.60	0.66
52:BU:27:LEU:HA	52:BU:30:LYS:HB2	1.77	0.66
54:BW:1:MET:HE1	54:BW:62:HIS:CD2	2.30	0.66
1:AA:231:G:O2'	1:AA:232:G:H5'	1.96	0.66
1:AA:326:G:O2'	1:AA:327:A:H5'	1.95	0.66
1:AA:858:G:C6	1:AA:869:G:N7	2.63	0.66
1:AA:1203:C:O2'	1:AA:1204:A:H5'	1.96	0.66
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.09	0.66
7:AG:148:ASN:C	7:AG:150:ALA:H	2.03	0.66
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.10	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:92:ARG:O	17:AQ:95:TYR:HB2	1.95	0.66
26:B1:86:SER:O	26:B1:90:ILE:HG12	1.96	0.66
27:B2:36:ARG:CA	27:B2:39:ALA:HB3	2.25	0.66
35:BA:205:G:O2'	35:BA:206:U:OP2	2.13	0.66
35:BA:654(L):G:H2'	35:BA:654(M):C:H4'	1.77	0.66
35:BA:781:A:C2	35:BA:1777:U:O4'	2.47	0.66
35:BA:910:A:N6	48:BQ:12:GLN:HA	2.04	0.66
35:BA:1830:C:O2'	35:BA:1831:G:H5'	1.95	0.66
35:BA:2101:G:H2'	35:BA:2102:U:C5'	2.24	0.66
35:BA:2311:A:O2'	35:BA:2312:U:C6	2.47	0.66
36:BB:29:A:O2'	36:BB:30:C:H5'	1.94	0.66
38:BD:169:GLU:O	38:BD:171:ASP:N	2.28	0.66
38:BD:273:ARG:HG3	38:BD:273:ARG:NH1	2.07	0.66
39:BE:172:VAL:HA	39:BE:183:LEU:O	1.95	0.66
39:BE:195:LEU:HD12	39:BE:196:VAL:N	2.11	0.66
42:BH:154:PRO:HA	42:BH:160:LYS:O	1.95	0.66
50:BS:28:VAL:HG12	50:BS:29:PHE:N	2.06	0.66
57:BZ:72:ARG:HH22	57:BZ:97:GLU:HB3	1.60	0.66
1:AA:241:C:O2'	1:AA:242:C:H5'	1.94	0.66
1:AA:675:A:H2'	1:AA:676:A:O4'	1.94	0.66
1:AA:917:G:H2'	1:AA:918:A:O4'	1.96	0.66
1:AA:939:G:H2'	1:AA:940:C:C6	2.31	0.66
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.94	0.66
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.60	0.66
20:AT:36:LEU:HD12	20:AT:59:ALA:CB	2.26	0.66
24:AY:403:LEU:HD11	24:AY:412:LEU:HB2	1.76	0.66
24:AY:425:VAL:HG21	24:AY:449:VAL:CG1	2.25	0.66
28:B3:46:ASN:O	28:B3:46:ASN:ND2	2.26	0.66
32:B7:3:ARG:NH2	35:BA:752:A:OP1	2.27	0.66
35:BA:1071:G:N2	35:BA:1091:G:N7	2.44	0.66
35:BA:2007:C:H5'	35:BA:2824:C:C1'	2.26	0.66
35:BA:2075:U:H5'	35:BA:2597:G:H1'	1.76	0.66
35:BA:2206:G:H3'	35:BA:2206:G:N3	2.11	0.66
35:BA:2284:C:H2'	35:BA:2285:C:H6	1.59	0.66
35:BA:2601:C:H6	35:BA:2601:C:O5'	1.77	0.66
35:BA:2606:C:H2'	35:BA:2607:G:C8	2.29	0.66
36:BB:104:U:O3'	57:BZ:72:ARG:HD2	1.96	0.66
37:BC:120:MET:SD	37:BC:123:VAL:HG11	2.36	0.66
48:BQ:67:ARG:HD2	48:BQ:105:GLU:OE1	1.96	0.66
51:BT:11:GLU:C	51:BT:13:ARG:H	2.04	0.66
52:BU:96:ALA:C	52:BU:98:LEU:N	2.52	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:26:GLY:H	54:BW:71:VAL:HB	1.59	0.66
1:AA:600:C:H2'	1:AA:601:C:C6	2.30	0.66
1:AA:678:U:O2	1:AA:777:A:H4'	1.96	0.66
1:AA:848:C:H2'	1:AA:849:C:C6	2.30	0.66
1:AA:1348:U:H5'	9:AI:110:GLU:OE1	1.96	0.66
2:AB:69:LEU:HD23	2:AB:159:PRO:HG3	1.77	0.66
3:AC:88:ARG:HG3	3:AC:88:ARG:HH11	1.60	0.66
4:AD:101:LEU:O	4:AD:105:VAL:HG23	1.95	0.66
5:AE:150:ARG:O	5:AE:151:LEU:HD23	1.95	0.66
19:AS:47:HIS:N	19:AS:62:ILE:HG21	2.10	0.66
24:AY:101:ARG:NH1	24:AY:301:PHE:O	2.28	0.66
24:AY:255:PHE:CE2	24:AY:268:MET:HA	2.31	0.66
31:B6:44:ARG:C	31:B6:45:LYS:HD3	2.20	0.66
32:B7:10:ARG:HH21	35:BA:1378:A:H5''	1.60	0.66
35:BA:94(A):G:C3'	35:BA:95:G:H5''	2.26	0.66
35:BA:1315:C:O2'	35:BA:1316:U:H5'	1.96	0.66
35:BA:1367:A:C2'	35:BA:1368:G:H5'	2.26	0.66
35:BA:2389:G:H5''	35:BA:2390:U:C5'	2.26	0.66
35:BA:2747:G:C2	35:BA:2756:U:H5	2.13	0.66
37:BC:189:ILE:HD13	37:BC:214:VAL:CG2	2.25	0.66
38:BD:44:ASN:ND2	38:BD:47:GLY:C	2.54	0.66
39:BE:147:PRO:HB2	39:BE:149:ARG:HG2	1.78	0.66
40:BF:159:GLY:HA2	40:BF:164:ARG:NH2	2.11	0.66
41:BG:125:PHE:HB3	41:BG:130:ASN:O	1.96	0.66
48:BQ:58:PHE:HD1	48:BQ:58:PHE:O	1.79	0.66
51:BT:123:GLN:HA	51:BT:126:ALA:CB	2.25	0.66
52:BU:36:ARG:HA	52:BU:39:LEU:HG	1.78	0.66
56:BY:67:LEU:HD23	56:BY:68:HIS:N	2.09	0.66
57:BZ:45:ASP:CG	57:BZ:49:ARG:HE	2.03	0.66
57:BZ:48:PHE:C	57:BZ:50:GLN:H	2.03	0.66
1:AA:622:A:N7	1:AA:623:C:C4	2.63	0.66
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.96	0.66
2:AB:87:ARG:NH1	2:AB:223:ILE:HD11	2.08	0.66
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.25	0.66
8:AH:5:PRO:O	8:AH:8:ASP:N	2.29	0.66
8:AH:44:PHE:CE2	8:AH:109:ILE:HG21	2.30	0.66
12:AL:41:ARG:HB3	12:AL:41:ARG:NH1	2.08	0.66
12:AL:89:ARG:HH11	12:AL:91:LYS:CA	2.09	0.66
15:AO:12:ILE:HG12	15:AO:27:VAL:HG12	1.77	0.66
15:AO:39:LEU:CD1	15:AO:56:LEU:CD2	2.72	0.66
16:AP:20:VAL:HG23	16:AP:34:GLU:O	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:73:LEU:HA	16:AP:76:GLN:NE2	2.11	0.66
22:AV:61:C:O2	22:AV:61:C:H2'	1.94	0.66
26:B1:3:LYS:HD2	35:BA:1364:G:C8	2.31	0.66
26:B1:27:GLU:HG3	26:B1:28:GLY:N	2.10	0.66
30:B5:19:ARG:O	30:B5:21:SER:N	2.28	0.66
35:BA:272(H):C:O5'	35:BA:272(H):C:H6	1.78	0.66
35:BA:608:A:H2'	35:BA:609:A:H8	1.59	0.66
35:BA:845:G:OP2	35:BA:845:G:C8	2.48	0.66
35:BA:1803:A:H2'	35:BA:1804:C:C6	2.29	0.66
35:BA:1827:C:C2	35:BA:1828:G:C8	2.83	0.66
35:BA:2009:G:H2'	35:BA:2010:G:C8	2.29	0.66
35:BA:2358:G:O2'	35:BA:2359:C:H5'	1.94	0.66
39:BE:117:MET:N	39:BE:122:PHE:HB2	2.10	0.66
48:BQ:141:GLN:HE22	57:BZ:72:ARG:HD3	1.59	0.66
49:BR:101:ALA:HB1	54:BW:38:TYR:HE1	1.61	0.66
54:BW:88:ARG:HH11	54:BW:88:ARG:CG	2.09	0.66
56:BY:86:ARG:NH1	56:BY:95:LYS:HZ2	1.92	0.66
57:BZ:60:GLU:HA	57:BZ:65:GLN:O	1.95	0.66
57:BZ:119:GLU:HG3	57:BZ:122:ARG:CZ	2.24	0.66
57:BZ:141:VAL:CA	57:BZ:144:LEU:HD23	2.24	0.66
1:AA:9:G:H5'	5:AE:122:GLU:OE1	1.96	0.66
1:AA:145:G:N2	1:AA:178:C:C2	2.64	0.66
1:AA:707:C:H2'	1:AA:708:C:H6	1.61	0.66
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.11	0.66
1:AA:980:C:H5'	1:AA:981:U:C4	2.31	0.66
1:AA:1377:A:OP2	7:AG:94:ARG:CZ	2.44	0.66
1:AA:1377:A:OP2	7:AG:94:ARG:NH2	2.28	0.66
2:AB:17:PHE:O	2:AB:18:GLY:O	2.13	0.66
4:AD:67:ILE:HG22	4:AD:67:ILE:O	1.96	0.66
5:AE:24:ARG:HH11	5:AE:24:ARG:HG2	1.59	0.66
5:AE:106:PRO:O	5:AE:110:LEU:HG	1.96	0.66
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	1.95	0.66
11:AK:84:VAL:HG22	11:AK:110:ASP:HA	1.78	0.66
12:AL:53:ARG:HG3	12:AL:69:TYR:HE2	1.60	0.66
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.11	0.66
19:AS:49:ILE:O	19:AS:60:VAL:CG1	2.44	0.66
24:AY:342:ILE:O	24:AY:342:ILE:HG13	1.93	0.66
28:B3:35:ARG:HH11	28:B3:35:ARG:HG3	1.59	0.66
35:BA:244:A:C2	35:BA:255:A:C4	2.83	0.66
35:BA:363(E):U:C5	35:BA:363(F):A:H2	2.14	0.66
35:BA:628:G:C2'	35:BA:629:G:C5'	2.69	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:780:G:H21	35:BA:783:A:H62	1.41	0.66
35:BA:1192:G:O2'	35:BA:1193:G:H5'	1.95	0.66
35:BA:1712:C:N4	35:BA:1747:G:H1	1.94	0.66
35:BA:1750:G:N3	35:BA:2860:A:C2	2.63	0.66
35:BA:1786:A:C6	35:BA:1938:A:C2	2.83	0.66
36:BB:57:A:N7	41:BG:29:TRP:HD1	1.94	0.66
39:BE:174:ASP:O	39:BE:183:LEU:HB2	1.96	0.66
48:BQ:54:MET:O	48:BQ:56:ARG:N	2.29	0.66
50:BS:53:SER:H	50:BS:55:ALA:HB3	1.61	0.66
52:BU:97:ASP:O	52:BU:100:VAL:HB	1.96	0.66
54:BW:72:LYS:CE	54:BW:108:GLY:HA3	2.26	0.66
55:BX:55:ASN:HB2	55:BX:80:ILE:CG1	2.26	0.66
57:BZ:116:VAL:C	57:BZ:174:VAL:HG13	2.20	0.66
1:AA:520:A:N6	1:AA:521:G:C2	2.64	0.66
1:AA:799:G:H2'	1:AA:800:G:H8	1.59	0.66
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.79	0.66
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.31	0.66
3:AC:58:GLU:C	3:AC:59:ARG:HG2	2.21	0.66
4:AD:26:CYS:O	4:AD:31:CYS:HB2	1.96	0.66
9:AI:126:SER:O	9:AI:127:LYS:HB3	1.95	0.66
22:AV:49:G:N3	22:AV:50:U:C6	2.64	0.66
24:AY:99:THR:HA	24:AY:102:THR:HG1	1.59	0.66
24:AY:197:LYS:CG	24:AY:202:GLN:HG3	2.25	0.66
24:AY:246:PHE:CE2	24:AY:247:LEU:HD23	2.31	0.66
24:AY:284:THR:HG23	24:AY:385:MET:HE1	1.78	0.66
24:AY:449:VAL:HG21	24:AY:463:TYR:OH	1.96	0.66
28:B3:8:LEU:HD23	28:B3:8:LEU:C	2.21	0.66
35:BA:292:C:C2	35:BA:349:G:N2	2.64	0.66
35:BA:864:G:H2'	35:BA:865:C:C6	2.30	0.66
35:BA:1007:C:OP1	45:BN:35:ARG:NH1	2.29	0.66
35:BA:1131:G:N7	35:BA:2025:C:H1'	2.10	0.66
35:BA:1317:A:H61	35:BA:1335:U:H3	1.44	0.66
35:BA:1579:A:H2'	35:BA:1580:A:C8	2.31	0.66
35:BA:1922:G:H2'	35:BA:1923:U:H5'	1.77	0.66
35:BA:1934:C:C2'	35:BA:1935:G:H5'	2.26	0.66
35:BA:2530:A:C2'	35:BA:2531:A:H5''	2.24	0.66
35:BA:2628:C:H1'	35:BA:2781:A:C2'	2.19	0.66
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.78	0.66
36:BB:98:G:C5	36:BB:99:G:N7	2.64	0.66
37:BC:30:LYS:HA	37:BC:30:LYS:NZ	2.11	0.66
38:BD:10:THR:O	38:BD:11:PRO:C	2.39	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:11:TYR:HA	41:BG:15:VAL:CG2	2.26	0.66
57:BZ:130:PRO:HA	57:BZ:133:ILE:HD11	1.78	0.66
1:AA:258:G:H2'	1:AA:259:G:C8	2.31	0.65
1:AA:625:G:H5'	16:AP:10:GLY:HA2	1.77	0.65
1:AA:687:A:N3	1:AA:688:G:H1'	2.11	0.65
1:AA:774:G:O2'	1:AA:775:G:H5'	1.96	0.65
1:AA:933:G:C2	1:AA:1385:G:C2	2.84	0.65
1:AA:1515:C:O2'	1:AA:1516:G:H5'	1.96	0.65
3:AC:108:ASN:HB3	3:AC:111:LEU:HB2	1.78	0.65
15:AO:57:LEU:HB2	15:AO:58:MET:SD	2.36	0.65
19:AS:21:GLU:HG3	19:AS:22:LEU:N	2.09	0.65
19:AS:24:ALA:O	19:AS:25:LYS:HG3	1.95	0.65
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.11	0.65
19:AS:47:HIS:CD2	29:B4:47:GLN:HB2	2.30	0.65
24:AY:138:LEU:HD22	24:AY:253:PRO:HG3	1.75	0.65
29:B4:5:ILE:H	29:B4:5:ILE:HD13	1.61	0.65
35:BA:132:G:H2'	35:BA:133:C:O4'	1.95	0.65
35:BA:677:A:H2'	35:BA:678:C:C6	2.31	0.65
35:BA:1277:G:O2'	49:BR:24:GLN:HG2	1.97	0.65
35:BA:1564:C:O2'	35:BA:1565:C:H5'	1.97	0.65
35:BA:2014:A:H2'	35:BA:2015:A:C8	2.30	0.65
36:BB:23:G:C2	36:BB:61:G:C2	2.84	0.65
36:BB:98:G:C4	36:BB:99:G:C8	2.84	0.65
36:BB:101:G:H2'	36:BB:102:A:C8	2.31	0.65
38:BD:226:MET:O	38:BD:227:ASN:OD1	2.13	0.65
40:BF:102:PRO:HB2	40:BF:105:VAL:CG2	2.26	0.65
41:BG:78:SER:C	41:BG:80:PHE:H	2.04	0.65
49:BR:17:ARG:NH1	49:BR:17:ARG:CB	2.60	0.65
49:BR:76:VAL:CG2	49:BR:80:PHE:HE2	2.08	0.65
52:BU:96:ALA:O	52:BU:98:LEU:N	2.29	0.65
55:BX:50:LYS:HB3	55:BX:87:GLN:HE22	1.59	0.65
1:AA:53:A:C2	1:AA:359:U:O2	2.49	0.65
1:AA:230:G:OP1	16:AP:33:ILE:CD1	2.44	0.65
1:AA:650:G:O2'	1:AA:651:C:H5'	1.95	0.65
1:AA:978:A:HO2'	1:AA:979:C:H6	1.44	0.65
2:AB:59:GLU:HB2	2:AB:221:LEU:HD11	1.78	0.65
2:AB:148:TYR:C	2:AB:149:LEU:HD23	2.22	0.65
2:AB:171:ALA:O	2:AB:174:VAL:HB	1.96	0.65
3:AC:55:VAL:HG22	3:AC:68:VAL:HG13	1.77	0.65
3:AC:137:ALA:HA	3:AC:140:ARG:NH1	2.11	0.65
6:AF:25:ILE:CA	6:AF:28:ARG:NH1	2.55	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:151:TYR:HA	7:AG:153:HIS:CE1	2.31	0.65
8:AH:32:LYS:O	8:AH:35:ILE:HB	1.95	0.65
19:AS:62:ILE:HA	19:AS:66:MET:CE	2.25	0.65
22:AV:74:C:H2'	22:AV:75:C:H5'	1.78	0.65
35:BA:1678:G:O5'	35:BA:1678:G:C8	2.45	0.65
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.60	0.65
35:BA:2066:C:C2	35:BA:2067:G:N7	2.64	0.65
35:BA:2177:C:HO2'	37:BC:168:THR:HG21	1.59	0.65
35:BA:2393:A:H2'	35:BA:2394:C:C6	2.24	0.65
35:BA:2715:C:H2'	35:BA:2716:U:C6	2.31	0.65
38:BD:65:ILE:HD11	38:BD:88:ARG:HD3	1.77	0.65
38:BD:181:GLU:CG	38:BD:272:ALA:HB1	2.26	0.65
42:BH:35:VAL:CG1	42:BH:72:ILE:CD1	2.73	0.65
45:BN:52:VAL:HG12	45:BN:53:VAL:N	2.10	0.65
45:BN:67:LEU:HA	45:BN:87:LEU:HD12	1.78	0.65
49:BR:71:GLN:CA	49:BR:71:GLN:HE21	2.07	0.65
54:BW:65:LEU:HD23	54:BW:68:ARG:NE	2.10	0.65
1:AA:60:A:H4'	1:AA:61:G:O5'	1.96	0.65
1:AA:196:A:N3	1:AA:222:U:H1'	2.11	0.65
1:AA:295:C:N3	1:AA:303:A:C2	2.65	0.65
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.30	0.65
1:AA:1265:G:C4	1:AA:1266:G:N7	2.64	0.65
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.11	0.65
13:AM:29:ARG:NH2	13:AM:64:TRP:HB3	2.12	0.65
15:AO:39:LEU:HB3	15:AO:56:LEU:CD2	2.21	0.65
18:AR:67:ALA:O	18:AR:71:LYS:HG3	1.95	0.65
22:AV:17(A):U:H4'	22:AV:18:G:OP1	1.95	0.65
24:AY:109:CYS:CB	24:AY:137:ILE:CG2	2.47	0.65
24:AY:417:VAL:O	24:AY:421:GLU:N	2.25	0.65
27:B2:36:ARG:C	27:B2:39:ALA:HB3	2.21	0.65
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.78	0.65
35:BA:285:C:H2'	35:BA:286:C:C6	2.30	0.65
35:BA:720:C:H2'	35:BA:721:C:H4'	1.78	0.65
35:BA:2101:G:H2'	35:BA:2102:U:C4'	2.26	0.65
35:BA:2306:C:H5	35:BA:2307:G:HO2'	1.42	0.65
37:BC:7:TYR:O	37:BC:10:LEU:HB2	1.96	0.65
38:BD:224:ALA:HA	38:BD:233:HIS:HB2	1.78	0.65
40:BF:82:ILE:CG1	40:BF:83:PHE:N	2.58	0.65
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.77	0.65
48:BQ:140:ALA:HB1	57:BZ:99:TYR:HD2	1.61	0.65
50:BS:29:PHE:C	50:BS:29:PHE:CD1	2.68	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:16:ARG:HH12	51:BT:19:LEU:HG	1.61	0.65
51:BT:121:ILE:C	51:BT:124:ASP:HB2	2.20	0.65
1:AA:319:G:H4'	1:AA:1468:A:H4'	1.77	0.65
1:AA:597:G:N2	8:AH:94:TYR:CE2	2.64	0.65
1:AA:798:G:C6	1:AA:799:G:N7	2.65	0.65
1:AA:824:C:H2'	1:AA:825:G:H8	1.62	0.65
1:AA:1316:G:O3'	14:AN:18:VAL:HG22	1.95	0.65
2:AB:8:LYS:C	2:AB:10:LEU:H	2.04	0.65
3:AC:123:GLN:HB3	3:AC:128:PHE:CD2	2.28	0.65
4:AD:96:LEU:HD12	4:AD:96:LEU:N	2.11	0.65
6:AF:47:ARG:CZ	6:AF:47:ARG:CB	2.73	0.65
11:AK:20:TYR:CE1	11:AK:83:ILE:HD12	2.32	0.65
11:AK:82:VAL:HG22	11:AK:83:ILE:N	2.11	0.65
15:AO:27:VAL:O	15:AO:30:ALA:N	2.29	0.65
17:AQ:13:ASP:O	17:AQ:15:MET:N	2.28	0.65
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	1.77	0.65
24:AY:487:ARG:C	24:AY:489:ASN:N	2.50	0.65
35:BA:918:A:N1	35:BA:919:G:H1'	2.12	0.65
35:BA:1789:A:C5'	38:BD:221:VAL:HG12	2.26	0.65
35:BA:1824:G:OP1	38:BD:52:ARG:CD	2.43	0.65
35:BA:1910:G:H1	35:BA:1920:C:N4	1.94	0.65
35:BA:2223:G:H5''	38:BD:269:PHE:CZ	2.32	0.65
39:BE:9:VAL:HG11	39:BE:25:VAL:HB	1.77	0.65
39:BE:24:THR:HB	39:BE:184:VAL:HG23	1.79	0.65
39:BE:105:THR:HG22	39:BE:106:GLY:N	2.11	0.65
40:BF:202:PHE:O	40:BF:205:ARG:HB3	1.95	0.65
41:BG:58:GLN:O	41:BG:61:ALA:HB3	1.96	0.65
41:BG:96:ARG:O	41:BG:97:ASP:HB2	1.95	0.65
46:BO:4:PRO:HB3	46:BO:22:ILE:O	1.97	0.65
47:BP:50:ARG:HH11	47:BP:50:ARG:HG2	1.62	0.65
50:BS:17:ARG:C	50:BS:19:LYS:H	2.03	0.65
53:BV:5:VAL:HG21	53:BV:35:LEU:CB	2.26	0.65
57:BZ:122:ARG:HG2	57:BZ:122:ARG:NH1	2.05	0.65
1:AA:589:C:H1'	1:AA:653:A:N6	2.11	0.65
1:AA:832:C:O2'	1:AA:833:U:H5'	1.97	0.65
1:AA:1527:C:O2'	1:AA:1528:U:H5'	1.96	0.65
2:AB:97:TRP:HZ3	2:AB:172:ILE:CG2	2.09	0.65
2:AB:106:LYS:HD3	2:AB:106:LYS:H	1.61	0.65
3:AC:6:HIS:HD2	3:AC:8:ILE:HB	1.61	0.65
4:AD:5:ILE:HA	4:AD:115:ARG:HH12	1.60	0.65
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:159:ARG:HG3	4:AD:159:ARG:HH11	1.61	0.65
10:AJ:53:PRO:C	14:AN:41:ARG:NH2	2.53	0.65
10:AJ:53:PRO:CA	14:AN:41:ARG:NH2	2.58	0.65
15:AO:36:ILE:CD1	15:AO:59:MET:HE2	2.26	0.65
22:AV:58:A:C6	22:AV:61:C:C4	2.85	0.65
24:AY:168:PRO:CB	24:AY:171:TRP:HZ2	2.02	0.65
30:B5:15:ARG:O	30:B5:18:ALA:HB3	1.97	0.65
35:BA:616:G:H5''	40:BF:103:LYS:NZ	2.10	0.65
35:BA:1372:U:O2'	35:BA:1373:A:H5'	1.96	0.65
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.59	0.65
35:BA:1999:C:H2'	35:BA:2000:G:C8	2.31	0.65
36:BB:105:A:H4'	57:BZ:89:PHE:CE1	2.31	0.65
39:BE:51:PHE:O	39:BE:53:PRO:N	2.30	0.65
40:BF:33:LEU:HD21	40:BF:112:MET:SD	2.37	0.65
40:BF:154:VAL:HG13	40:BF:191:ARG:HB3	1.79	0.65
41:BG:117:PHE:O	41:BG:118:ARG:HG3	1.97	0.65
45:BN:12:ARG:HB3	45:BN:50:ASP:OD2	1.97	0.65
46:BO:17:ARG:HH21	46:BO:99:PHE:HE2	1.44	0.65
46:BO:26:LYS:HB2	46:BO:30:ALA:HB3	1.79	0.65
47:BP:97:PRO:C	47:BP:99:LEU:N	2.50	0.65
48:BQ:60:ARG:HH11	48:BQ:60:ARG:HB2	1.61	0.65
48:BQ:63:LYS:NZ	57:BZ:175:VAL:HG11	2.10	0.65
51:BT:32:TYR:O	51:BT:33:LYS:HB2	1.94	0.65
52:BU:92:ARG:CD	52:BU:94:ASN:HB3	2.22	0.65
57:BZ:99:TYR:HA	57:BZ:124:ILE:O	1.96	0.65
1:AA:14:U:H2'	1:AA:16:A:OP2	1.95	0.65
1:AA:32:A:P	1:AA:398:C:H1'	2.36	0.65
1:AA:515:G:O2'	1:AA:516:U:H5'	1.96	0.65
1:AA:781:A:H4'	1:AA:1522:U:O2'	1.97	0.65
1:AA:817:C:C5	1:AA:819:A:H1'	2.32	0.65
1:AA:1009:G:H2'	1:AA:1010:G:C8	2.32	0.65
2:AB:153:ARG:HG3	2:AB:154:LEU:N	2.10	0.65
10:AJ:35:SER:OG	10:AJ:73:ASP:HB2	1.97	0.65
11:AK:79:SER:O	11:AK:80:VAL:HG13	1.96	0.65
24:AY:89:THR:HB	24:AY:99:THR:CG2	2.26	0.65
24:AY:412:LEU:CD2	24:AY:436:LEU:HD12	2.26	0.65
28:B3:46:ASN:C	28:B3:46:ASN:ND2	2.54	0.65
31:B6:42:TRP:O	31:B6:44:ARG:N	2.29	0.65
35:BA:61:G:H1	35:BA:94:C:H42	1.45	0.65
35:BA:81:G:H21	56:BY:2:ARG:NH1	1.92	0.65
35:BA:324:A:OP2	35:BA:1205:U:N3	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:396:G:H8	35:BA:396:G:O5'	1.80	0.65
35:BA:811:U:H6	47:BP:24:GLY:O	1.77	0.65
35:BA:1241:A:N6	35:BA:1242:A:N6	2.44	0.65
35:BA:1991:U:H2'	35:BA:1992:G:H5''	1.78	0.65
35:BA:2350:C:H2'	35:BA:2351:G:O4'	1.96	0.65
35:BA:2619:C:O2'	35:BA:2620:C:H5'	1.97	0.65
35:BA:2760:C:H2'	35:BA:2761:G:H5''	1.79	0.65
38:BD:78:LYS:O	38:BD:95:LEU:HA	1.97	0.65
38:BD:111:LEU:HD12	38:BD:112:GLN:N	2.10	0.65
41:BG:115:ARG:HH22	41:BG:136:ARG:CB	2.09	0.65
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CG	2.32	0.65
48:BQ:72:LYS:HB3	48:BQ:94:VAL:HG22	1.78	0.65
52:BU:113:ALA:C	52:BU:115:ALA:H	2.04	0.65
1:AA:22:G:H4'	1:AA:885:G:C8	2.31	0.65
1:AA:959:A:H2'	1:AA:960:U:H4'	1.79	0.65
1:AA:1152:A:OP1	10:AJ:70:ARG:NH2	2.30	0.65
2:AB:102:LEU:CD1	2:AB:102:LEU:N	2.59	0.65
4:AD:201:GLN:O	4:AD:205:GLU:HG3	1.96	0.65
6:AF:80:ARG:HG2	6:AF:88:VAL:HG21	1.77	0.65
10:AJ:53:PRO:HB3	14:AN:42:ILE:HG13	1.79	0.65
12:AL:102:ARG:NH2	12:AL:110:VAL:HG22	2.12	0.65
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG2	1.77	0.65
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	1.97	0.65
19:AS:41:VAL:HB	19:AS:44:MET:HG2	1.79	0.65
20:AT:91:LEU:C	20:AT:93:GLU:N	2.55	0.65
22:AV:59:A:H2'	22:AV:60:U:H5'	1.76	0.65
24:AY:138:LEU:CD1	24:AY:268:MET:SD	2.85	0.65
24:AY:246:PHE:HA	24:AY:251:ILE:CG1	2.26	0.65
24:AY:389:GLY:O	24:AY:390:ILE:CG1	2.44	0.65
35:BA:745:G:H2'	35:BA:746:A:H5'	1.79	0.65
35:BA:1013:C:H2'	35:BA:1014:U:H5'	1.78	0.65
35:BA:1376:C:C2'	35:BA:1377:G:H5'	2.27	0.65
35:BA:1914:C:O2	35:BA:1914:C:C5'	2.45	0.65
35:BA:2319:G:H1'	35:BA:2320:A:C8	2.32	0.65
37:BC:74:VAL:HG13	37:BC:112:ALA:HB3	1.79	0.65
39:BE:35:GLN:O	39:BE:36:ARG:HD2	1.96	0.65
39:BE:51:PHE:H	39:BE:74:PRO:HG3	1.61	0.65
45:BN:101:HIS:O	45:BN:102:ALA:C	2.39	0.65
47:BP:86:LYS:HB2	47:BP:117:GLU:O	1.97	0.65
47:BP:88:LEU:CD2	47:BP:125:VAL:HG21	2.24	0.65
54:BW:21:VAL:O	54:BW:24:ILE:HG12	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:18:TYR:C	55:BX:20:GLY:H	2.04	0.65
1:AA:291:C:H2'	1:AA:292:G:C8	2.32	0.65
1:AA:484:G:H4'	1:AA:485:G:O5'	1.97	0.65
1:AA:774:G:C4	1:AA:775:G:C8	2.85	0.65
1:AA:1423:G:H5''	46:BO:49:ARG:HH12	1.62	0.65
9:AI:55:ALA:HB1	9:AI:59:PHE:HE2	1.60	0.65
10:AJ:54:PHE:CE2	10:AJ:55:LYS:HD2	2.32	0.65
10:AJ:64:GLU:HG2	14:AN:59:ALA:HA	1.78	0.65
17:AQ:82:MET:O	17:AQ:86:GLU:HG2	1.96	0.65
18:AR:36:ASN:HA	18:AR:38:GLU:OE2	1.96	0.65
22:AV:20:U:C2'	22:AV:21:A:H4'	2.27	0.65
24:AY:16:PHE:HE2	24:AY:84:VAL:CG1	2.09	0.65
24:AY:261:GLY:O	24:AY:262:ASN:HB2	1.96	0.65
24:AY:469:ALA:C	24:AY:470:THR:HG22	2.21	0.65
24:AY:517:ARG:HH11	24:AY:517:ARG:HG2	1.62	0.65
35:BA:303:U:H2'	35:BA:304:G:C8	2.31	0.65
35:BA:329:G:H1'	35:BA:477:A:H1'	1.77	0.65
35:BA:751:A:C5	35:BA:789:A:C6	2.85	0.65
35:BA:1103:A:H5'	35:BA:1104:C:OP2	1.95	0.65
35:BA:1607:C:H4'	35:BA:1608:A:C5'	2.27	0.65
35:BA:1791:A:N6	35:BA:1829:A:H5'	2.12	0.65
35:BA:2060:A:H2'	40:BF:68:LYS:HE2	1.78	0.65
35:BA:2073:C:O3'	38:BD:228:PRO:HB2	1.96	0.65
35:BA:2152:G:O2'	35:BA:2153:G:H5'	1.97	0.65
35:BA:2180:U:H2'	35:BA:2181:G:H8	1.61	0.65
37:BC:39:GLU:O	37:BC:178:ALA:N	2.30	0.65
41:BG:171:ALA:O	41:BG:172:LEU:C	2.39	0.65
49:BR:58:GLY:HA2	49:BR:80:PHE:CE1	2.32	0.65
51:BT:80:SER:CB	51:BT:81:PRO:CD	2.73	0.65
53:BV:32:THR:HG22	53:BV:33:VAL:N	2.11	0.65
53:BV:91:TYR:HD1	53:BV:92:THR:N	1.95	0.65
54:BW:21:VAL:C	54:BW:23:LEU:H	2.04	0.65
55:BX:10:ALA:O	55:BX:28:PHE:HB2	1.96	0.65
57:BZ:108:PRO:HA	57:BZ:141:VAL:CG1	2.27	0.65
1:AA:28:G:N2	1:AA:556:C:N3	2.45	0.65
1:AA:658:G:O2'	1:AA:659:U:H5'	1.96	0.65
1:AA:1299:A:H5''	1:AA:1299:A:N3	2.12	0.65
1:AA:1318:A:C1'	19:AS:37:ARG:NH2	2.57	0.65
2:AB:12:GLU:C	2:AB:14:GLY:N	2.53	0.65
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	2.10	0.65
13:AM:68:GLY:C	13:AM:70:LEU:H	2.05	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:36:ILE:HD12	15:AO:60:VAL:HG22	1.78	0.65
18:AR:44:LEU:O	18:AR:45:SER:O	2.14	0.65
24:AY:173:ILE:HA	24:AY:227:LEU:HD11	1.77	0.65
24:AY:368:HIS:O	24:AY:369:ASN:HB2	1.96	0.65
27:B2:36:ARG:O	27:B2:39:ALA:HB3	1.97	0.65
33:B8:56:GLU:CD	33:B8:56:GLU:N	2.51	0.65
35:BA:746:A:H2'	35:BA:2612:C:H5''	1.78	0.65
35:BA:957:A:H2	35:BA:2459:A:OP1	1.80	0.65
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.10	0.65
35:BA:1663:C:HO2'	35:BA:1664:A:H8	1.45	0.65
35:BA:2365:G:O2'	35:BA:2366:A:C8	2.50	0.65
35:BA:2578:G:C5	39:BE:140:SER:HB2	2.32	0.65
37:BC:111:ASP:O	37:BC:136:LEU:HD21	1.97	0.65
38:BD:4:LYS:O	38:BD:17:THR:HG23	1.97	0.65
38:BD:33:LEU:CD2	38:BD:34:VAL:HG22	2.27	0.65
39:BE:199:ARG:HB2	39:BE:199:ARG:CZ	2.27	0.65
40:BF:154:VAL:HG11	40:BF:193:VAL:CG2	2.27	0.65
42:BH:94:TYR:CD1	42:BH:108:GLY:N	2.65	0.65
42:BH:103:LEU:HD22	42:BH:125:VAL:HG22	1.78	0.65
50:BS:89:ARG:HB3	50:BS:92:TYR:CB	2.26	0.65
51:BT:51:ARG:CG	51:BT:62:THR:OG1	2.38	0.65
54:BW:26:GLY:C	54:BW:27:LYS:HG3	2.22	0.65
54:BW:36:LEU:HD11	54:BW:47:VAL:HG12	1.78	0.65
57:BZ:51:ALA:HA	57:BZ:55:HIS:CD2	2.19	0.65
1:AA:625:G:O2'	1:AA:626:U:H5'	1.97	0.65
1:AA:971:G:H4'	1:AA:972:C:H5''	1.78	0.65
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.78	0.65
2:AB:152:PHE:HD1	2:AB:153:ARG:H	1.45	0.65
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.62	0.65
3:AC:52:LEU:HB3	3:AC:70:VAL:HG22	1.78	0.65
3:AC:120:VAL:HG12	3:AC:121:ALA:N	2.11	0.65
12:AL:10:LEU:O	17:AQ:32:TYR:CE2	2.49	0.65
14:AN:13:THR:H	14:AN:14:PRO:HD2	1.54	0.65
25:B0:26:TYR:CE2	35:BA:857:C:H1'	2.32	0.65
25:B0:45:PHE:HB2	25:B0:59:LEU:HD11	1.77	0.65
27:B2:32:LEU:O	27:B2:35:LEU:HB3	1.97	0.65
32:B7:37:LYS:NZ	35:BA:468:G:OP2	2.30	0.65
35:BA:45:C:OP2	35:BA:215:G:H5''	1.97	0.65
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	1.95	0.65
35:BA:366:C:H5''	35:BA:403:U:N3	2.11	0.65
35:BA:560:C:H2'	35:BA:561:G:C8	2.32	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:887:A:H2'	35:BA:887:A:N3	2.11	0.65
35:BA:1083:U:H1'	35:BA:1086:A:H61	1.61	0.65
35:BA:1149:G:O2'	35:BA:1150:C:H5'	1.96	0.65
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.62	0.65
35:BA:2334:G:H5'	50:BS:13:ARG:HD3	1.78	0.65
35:BA:2787:C:O2	35:BA:2787:C:H2'	1.95	0.65
37:BC:180:PHE:HB3	37:BC:184:LYS:CB	2.23	0.65
37:BC:192:PHE:CZ	37:BC:196:LEU:HD11	2.32	0.65
38:BD:63:ARG:O	38:BD:64:ILE:O	2.15	0.65
38:BD:265:PRO:O	38:BD:267:SER:O	2.15	0.65
40:BF:81:PRO:O	40:BF:82:ILE:O	2.14	0.65
42:BH:37:VAL:HG22	42:BH:72:ILE:CD1	2.26	0.65
42:BH:147:ASN:O	42:BH:151:ILE:HD11	1.97	0.65
46:BO:120:GLU:HB2	51:BT:68:TYR:CE2	2.32	0.65
51:BT:53:ARG:O	51:BT:59:THR:HA	1.97	0.65
53:BV:46:VAL:O	53:BV:48:GLY:N	2.30	0.65
55:BX:50:LYS:O	55:BX:83:VAL:HA	1.97	0.65
57:BZ:19:ARG:C	57:BZ:21:ALA:H	2.05	0.65
1:AA:726:C:O2'	1:AA:727:G:H5'	1.97	0.64
1:AA:1060:C:H4'	10:AJ:51:ARG:HB3	1.78	0.64
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.27	0.64
1:AA:1151:A:N3	10:AJ:39:PRO:HG3	2.12	0.64
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.32	0.64
1:AA:1359:C:C6	14:AN:35:ARG:NH2	2.65	0.64
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.61	0.64
3:AC:120:VAL:O	3:AC:122:GLU:N	2.29	0.64
3:AC:137:ALA:C	3:AC:139:GLN:N	2.52	0.64
13:AM:56:LEU:CD1	13:AM:60:VAL:HG21	2.26	0.64
24:AY:123:THR:HA	24:AY:126:LEU:HD12	1.79	0.64
35:BA:629:G:H5'	35:BA:629:G:C8	2.31	0.64
35:BA:877:U:C2'	35:BA:878:A:H5''	2.27	0.64
35:BA:1530:C:H2'	35:BA:1531:C:C6	2.32	0.64
35:BA:1661:G:O2'	35:BA:1662:C:H5'	1.97	0.64
35:BA:1820:U:O2	38:BD:201:HIS:HB3	1.97	0.64
35:BA:1925:C:H2'	35:BA:1926:U:H5'	1.78	0.64
35:BA:2645:G:H8	35:BA:2645:G:OP2	1.78	0.64
38:BD:148:GLU:CB	38:BD:151:LYS:HD3	2.22	0.64
39:BE:25:VAL:HG22	39:BE:183:LEU:CD1	2.27	0.64
40:BF:26:ALA:C	40:BF:27:GLU:HG3	2.22	0.64
42:BH:18:GLU:HB2	42:BH:25:LYS:HG3	1.80	0.64
45:BN:23:LEU:O	45:BN:25:ARG:N	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:11:ALA:O	46:BO:98:VAL:HG23	1.97	0.64
47:BP:112:LEU:O	47:BP:128:HIS:HB2	1.98	0.64
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CD2	2.32	0.64
49:BR:48:VAL:HA	49:BR:51:LEU:CB	2.26	0.64
56:BY:86:ARG:CZ	56:BY:95:LYS:NZ	2.59	0.64
1:AA:33:A:OP2	1:AA:398:C:H5'	1.98	0.64
1:AA:109:A:O3'	1:AA:110:C:H6	1.81	0.64
1:AA:1081:G:O2'	1:AA:1082:G:H5'	1.96	0.64
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.30	0.64
1:AA:1251:A:O2'	1:AA:1252:A:H5'	1.96	0.64
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.32	0.64
2:AB:92:TYR:HD1	2:AB:93:VAL:N	1.95	0.64
2:AB:138:LEU:HD23	2:AB:138:LEU:N	2.11	0.64
4:AD:96:LEU:HA	4:AD:99:SER:HB2	1.79	0.64
5:AE:94:ALA:HB1	5:AE:98:THR:HG21	1.79	0.64
7:AG:49:ILE:O	7:AG:50:ILE:C	2.40	0.64
9:AI:100:GLY:O	9:AI:103:THR:N	2.30	0.64
13:AM:78:ILE:HG22	13:AM:79:LYS:N	2.12	0.64
18:AR:45:SER:OG	18:AR:49:LYS:HB2	1.97	0.64
24:AY:6:TYR:HA	24:AY:360:TYR:CE2	2.28	0.64
24:AY:302:LYS:O	24:AY:316:ALA:C	2.39	0.64
24:AY:488:LYS:HD3	24:AY:518:TYR:OH	1.98	0.64
35:BA:253:C:O2'	35:BA:254:G:H5'	1.98	0.64
35:BA:398:G:H2'	35:BA:399:G:C8	2.33	0.64
35:BA:673:C:C2'	35:BA:674:G:H5'	2.28	0.64
35:BA:744:G:H2'	35:BA:745:G:O4'	1.97	0.64
35:BA:1922:G:H2'	35:BA:1923:U:H6	1.62	0.64
35:BA:2076:U:O2	35:BA:2076:U:H2'	1.96	0.64
35:BA:2080:G:C2	35:BA:2241:A:C2	2.85	0.64
35:BA:2679:A:P	39:BE:160:TYR:HH	2.20	0.64
37:BC:181:PRO:HB2	37:BC:182:PRO:CD	2.28	0.64
38:BD:65:ILE:HB	38:BD:67:PHE:CE2	2.31	0.64
38:BD:69:ARG:NH2	38:BD:105:ILE:HG13	2.12	0.64
38:BD:123:ALA:HB3	38:BD:131:LEU:HD21	1.77	0.64
38:BD:125:ILE:HD12	38:BD:137:PRO:CD	2.26	0.64
38:BD:267:SER:HA	38:BD:270:ILE:HG13	1.79	0.64
39:BE:111:ARG:HD2	39:BE:161:GLY:HA3	1.79	0.64
41:BG:16:ARG:NH1	41:BG:28:VAL:HG13	2.11	0.64
42:BH:41:MET:CG	42:BH:42:ARG:N	2.59	0.64
57:BZ:28:MET:HG3	57:BZ:37:VAL:HG11	1.79	0.64
57:BZ:96:VAL:HG12	57:BZ:130:PRO:HG3	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:719:C:H3'	1:AA:720:C:C6	2.32	0.64
1:AA:783:C:O5'	1:AA:783:C:H6	1.79	0.64
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.32	0.64
2:AB:136:VAL:O	2:AB:140:HIS:HB2	1.97	0.64
8:AH:5:PRO:O	8:AH:8:ASP:CB	2.45	0.64
11:AK:126:ARG:C	11:AK:128:ALA:N	2.48	0.64
18:AR:30:ASP:OD2	18:AR:32:ARG:HB3	1.97	0.64
30:B5:25:LEU:HD12	54:BW:23:LEU:HB2	1.79	0.64
32:B7:7:PRO:HG3	35:BA:1612:C:H5'	1.78	0.64
32:B7:16:HIS:CA	32:B7:21:ARG:HH12	2.10	0.64
35:BA:443:A:N6	40:BF:41:LEU:O	2.24	0.64
35:BA:956:G:OP2	48:BQ:87:LYS:NZ	2.30	0.64
35:BA:2158:A:H4'	35:BA:2159:G:H5'	1.77	0.64
35:BA:2634:G:H2'	35:BA:2635:C:C6	2.33	0.64
37:BC:91:ALA:HB2	37:BC:153:ILE:HG21	1.79	0.64
40:BF:178:PRO:C	40:BF:201:VAL:HG11	2.22	0.64
46:BO:6:THR:HG22	46:BO:7:TYR:H	1.62	0.64
46:BO:11:ALA:HB1	46:BO:99:PHE:O	1.97	0.64
46:BO:85:VAL:HG21	46:BO:114:ILE:HG12	1.79	0.64
51:BT:35:LYS:HZ1	51:BT:41:ARG:HD2	1.61	0.64
57:BZ:77:ASP:O	57:BZ:79:ARG:N	2.30	0.64
1:AA:720:C:H3'	1:AA:721:G:C8	2.32	0.64
1:AA:937:A:H2'	1:AA:938:A:C8	2.31	0.64
1:AA:1075:C:H4'	1:AA:1101:A:H62	1.62	0.64
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.32	0.64
2:AB:157:ARG:CZ	2:AB:157:ARG:HB3	2.28	0.64
4:AD:15:GLU:OE2	4:AD:66:ARG:NH1	2.30	0.64
4:AD:52:SER:O	4:AD:53:ASP:C	2.40	0.64
9:AI:46:ALA:HB1	9:AI:77:ILE:HG22	1.79	0.64
11:AK:82:VAL:HG22	11:AK:83:ILE:H	1.62	0.64
12:AL:45:PRO:HD2	12:AL:51:ALA:H	1.61	0.64
15:AO:42:HIS:O	15:AO:42:HIS:HD2	1.80	0.64
17:AQ:8:GLY:HA3	17:AQ:21:VAL:HG12	1.80	0.64
17:AQ:75:ARG:NH1	17:AQ:75:ARG:HG3	2.10	0.64
24:AY:247:LEU:O	24:AY:249:GLY:N	2.30	0.64
24:AY:402:ARG:HG2	24:AY:403:LEU:N	2.12	0.64
24:AY:431:ILE:HD13	24:AY:431:ILE:N	2.09	0.64
26:B1:19:GLN:NE2	35:BA:2081:C:OP1	2.30	0.64
35:BA:18:C:O3'	52:BU:23:GLY:HA2	1.98	0.64
35:BA:154:G:H2'	35:BA:154(A):C:C6	2.32	0.64
35:BA:498:G:H2'	35:BA:499:U:H6	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:963:U:H2'	35:BA:964:C:C6	2.33	0.64
35:BA:1165:U:H2'	35:BA:1166:C:C6	2.32	0.64
35:BA:1267:U:H2'	35:BA:1268:A:C8	2.33	0.64
35:BA:1652:A:H2'	35:BA:1653:G:C8	2.32	0.64
35:BA:1656:C:H2'	35:BA:1657:C:C6	2.31	0.64
35:BA:1889:A:H1'	35:BA:2087:G:O4'	1.97	0.64
38:BD:24:ILE:HG22	38:BD:25:THR:N	2.11	0.64
39:BE:1:MET:HB3	39:BE:200:GLU:CD	2.22	0.64
41:BG:139:LEU:HD22	41:BG:146:TYR:HB3	1.79	0.64
42:BH:162:ILE:O	42:BH:162:ILE:CD1	2.45	0.64
43:BJ:121:UNK:O	43:BJ:122:UNK:O	2.15	0.64
46:BO:36:GLY:HA3	46:BO:109:LYS:HE3	1.79	0.64
47:BP:95:VAL:HG23	47:BP:125:VAL:HG23	1.79	0.64
47:BP:101:VAL:CG2	47:BP:102:ARG:H	2.09	0.64
50:BS:34:HIS:C	50:BS:35:ILE:HG22	2.22	0.64
52:BU:83:LEU:H	52:BU:83:LEU:HD12	1.62	0.64
57:BZ:7:ALA:HB3	57:BZ:61:LEU:CD2	2.28	0.64
57:BZ:45:ASP:O	57:BZ:46:LYS:C	2.40	0.64
1:AA:403:C:H4'	4:AD:122:ARG:CZ	2.27	0.64
2:AB:17:PHE:O	2:AB:17:PHE:CD1	2.48	0.64
3:AC:128:PHE:O	3:AC:130:VAL:N	2.31	0.64
4:AD:80:GLU:HA	4:AD:80:GLU:OE1	1.97	0.64
8:AH:48:TYR:O	8:AH:49:GLU:HB3	1.98	0.64
11:AK:62:GLN:HG3	11:AK:66:LEU:HD21	1.79	0.64
12:AL:36:VAL:HG12	12:AL:82:VAL:HA	1.78	0.64
16:AP:21:VAL:HG11	16:AP:59:TRP:HE1	1.61	0.64
19:AS:47:HIS:O	19:AS:62:ILE:HG22	1.97	0.64
24:AY:115:ALA:CB	24:AY:148:ILE:HB	2.28	0.64
24:AY:241:PHE:HZ	24:AY:275:TRP:CD1	2.16	0.64
32:B7:12:ARG:NH2	35:BA:465:G:OP1	2.25	0.64
32:B7:18:PHE:CZ	32:B7:22:MET:SD	2.90	0.64
35:BA:783:A:C8	35:BA:784:A:H4'	2.33	0.64
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.33	0.64
35:BA:1310:G:O4'	35:BA:1611:C:H4'	1.97	0.64
35:BA:1495:A:H3'	35:BA:1496:A:C2	2.32	0.64
35:BA:1925:C:H2'	35:BA:1925:C:O2	1.97	0.64
35:BA:2716:U:H2'	35:BA:2717:G:C8	2.32	0.64
38:BD:198:ASN:C	38:BD:198:ASN:ND2	2.52	0.64
39:BE:31:CYS:O	39:BE:49:LEU:HD12	1.97	0.64
45:BN:74:ARG:HH21	45:BN:83:LYS:HD3	1.63	0.64
56:BY:86:ARG:NH1	56:BY:95:LYS:NZ	2.45	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:259:G:O2'	1:AA:260:G:H5'	1.97	0.64
1:AA:390:C:C4'	16:AP:28:ARG:HH21	2.05	0.64
1:AA:436:C:H2'	1:AA:437:U:C6	2.33	0.64
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.57	0.64
1:AA:1495:U:OP1	13:AM:125:ARG:HD3	1.98	0.64
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.97	0.64
2:AB:87:ARG:HE	2:AB:233:SER:HB3	1.62	0.64
4:AD:64:LEU:HD22	4:AD:203:VAL:HG21	1.78	0.64
13:AM:40:ASN:HD22	13:AM:43:THR:CG2	2.11	0.64
14:AN:12:ARG:HB3	14:AN:14:PRO:CD	2.26	0.64
16:AP:45:THR:C	16:AP:47:ASP:N	2.53	0.64
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.98	0.64
18:AR:56:THR:CB	18:AR:58:LEU:HD12	2.27	0.64
24:AY:369:ASN:HB2	24:AY:373:ILE:CG1	2.26	0.64
25:B0:33:ALA:O	35:BA:2352:A:C2	2.50	0.64
26:B1:50:ARG:HG2	26:B1:59:THR:HG22	1.80	0.64
27:B2:43:GLN:HG2	27:B2:44:LEU:N	2.06	0.64
34:B9:30:PRO:C	34:B9:32:HIS:H	2.05	0.64
35:BA:145:G:H3'	35:BA:146:G:H5''	1.78	0.64
35:BA:310:A:O2'	35:BA:311:A:H2'	1.97	0.64
35:BA:584:C:OP1	52:BU:5:LYS:HB2	1.97	0.64
35:BA:1407:C:H5'	35:BA:1408:C:OP2	1.97	0.64
35:BA:2323:G:O2'	35:BA:2324:C:H5'	1.97	0.64
35:BA:2346:A:H5'	35:BA:2383:G:C1'	2.27	0.64
35:BA:2523:G:O4'	35:BA:2765:A:N7	2.31	0.64
35:BA:2539:C:O2'	35:BA:2540:C:H5'	1.98	0.64
35:BA:2729:G:H1'	39:BE:187:ALA:HB2	1.78	0.64
36:BB:22:U:H2'	36:BB:23:G:C8	2.32	0.64
36:BB:75:G:H2'	57:BZ:85:HIS:HE1	1.63	0.64
37:BC:29:VAL:HG13	37:BC:222:VAL:HG21	1.80	0.64
39:BE:137:HIS:HB3	39:BE:138:PRO:CD	2.27	0.64
42:BH:104:GLU:O	42:BH:104:GLU:HG3	1.98	0.64
42:BH:154:PRO:O	42:BH:155:SER:CB	2.45	0.64
51:BT:30:VAL:HA	51:BT:44:ASP:HA	1.77	0.64
57:BZ:100:VAL:CG1	57:BZ:137:ILE:HG12	2.27	0.64
1:AA:106:C:N4	20:AT:14:LYS:NZ	2.45	0.64
1:AA:680:C:H2'	1:AA:681:C:C6	2.33	0.64
1:AA:751:U:H3'	1:AA:752:G:H8	1.62	0.64
1:AA:949:A:O2'	1:AA:950:U:H5'	1.98	0.64
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	2.12	0.64
1:AA:1066:C:H5'	1:AA:1067:A:OP2	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:187:LEU:HD13	2:AB:205:ASP:HB3	1.79	0.64
5:AE:77:PRO:HG2	5:AE:142:LEU:HD22	1.79	0.64
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.13	0.64
16:AP:69:THR:CA	16:AP:72:ARG:HB3	2.28	0.64
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.80	0.64
22:AV:1:C:C2'	22:AV:2:G:H5'	2.28	0.64
24:AY:32:LYS:O	24:AY:35:LEU:HB2	1.98	0.64
24:AY:144:LEU:H	24:AY:258:THR:HB	1.62	0.64
24:AY:303:ILE:HG12	24:AY:316:ALA:HB2	1.78	0.64
24:AY:401:ILE:HG12	24:AY:463:TYR:CE2	2.32	0.64
28:B3:5:LYS:HB3	28:B3:57:GLU:HB3	1.80	0.64
33:B8:37:SER:O	33:B8:41:ILE:HG22	1.98	0.64
35:BA:661:C:H2'	35:BA:662:G:C8	2.32	0.64
35:BA:894:C:O2'	35:BA:895:U:C6	2.49	0.64
35:BA:962:G:O2'	35:BA:963:U:H5'	1.97	0.64
35:BA:966:G:O4'	35:BA:2267:A:N6	2.30	0.64
35:BA:1350:C:N4	35:BA:1382:G:N1	2.45	0.64
35:BA:1384:A:N3	35:BA:1405:U:H1'	2.13	0.64
35:BA:1754:C:H5'	51:BT:101:PHE:CZ	2.33	0.64
35:BA:1837:C:N3	35:BA:1899:G:C6	2.65	0.64
35:BA:2283:C:N4	35:BA:2389:G:C5	2.66	0.64
35:BA:2305:A:C2	35:BA:2306:C:C1'	2.80	0.64
35:BA:2599:G:N7	38:BD:236:GLY:HA2	2.13	0.64
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.46	0.64
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.51	0.64
38:BD:165:ILE:N	38:BD:165:ILE:CD1	2.61	0.64
39:BE:179:GLU:O	39:BE:179:GLU:HG3	1.97	0.64
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.80	0.64
41:BG:109:VAL:HG12	41:BG:110:ALA:N	2.11	0.64
45:BN:108:PRO:HG2	45:BN:113:GLY:HA3	1.79	0.64
48:BQ:97:VAL:HG13	48:BQ:101:ARG:HG2	1.79	0.64
49:BR:14:SER:HA	49:BR:17:ARG:HH21	1.62	0.64
54:BW:29:LEU:CD2	54:BW:33:ARG:HD2	2.28	0.64
56:BY:63:LYS:HG2	56:BY:64:GLU:OE1	1.96	0.64
1:AA:429:U:H1'	1:AA:430:A:H5''	1.80	0.64
1:AA:958:A:H2	19:AS:54:GLY:O	1.81	0.64
2:AB:204:ASN:HD22	2:AB:205:ASP:N	1.95	0.64
5:AE:7:GLU:O	5:AE:8:GLU:HB3	1.97	0.64
8:AH:37:ARG:NH2	8:AH:41:ARG:HH22	1.95	0.64
12:AL:6:THR:H	12:AL:9:GLN:NE2	1.96	0.64
13:AM:60:VAL:HG12	13:AM:61:GLU:N	2.13	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:ASN:O	20:AT:30:LYS:HB2	1.98	0.64
24:AY:259:ALA:O	24:AY:261:GLY:N	2.30	0.64
24:AY:449:VAL:O	24:AY:453:LEU:HG	1.98	0.64
35:BA:1313:U:H4'	35:BA:1333:C:OP2	1.97	0.64
35:BA:1478:G:H2'	35:BA:1479:G:H8	1.62	0.64
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.78	0.64
35:BA:1921:G:O2'	35:BA:1922:G:H5'	1.98	0.64
37:BC:11:LEU:C	37:BC:13:LYS:H	2.05	0.64
38:BD:91:ARG:C	38:BD:107:ALA:HB2	2.23	0.64
42:BH:41:MET:CE	42:BH:52:VAL:HG22	2.28	0.64
46:BO:13:ASN:C	46:BO:15:GLY:H	2.06	0.64
47:BP:66:GLY:O	47:BP:67:MET:HB2	1.97	0.64
48:BQ:21:THR:OG1	48:BQ:99:PRO:O	2.16	0.64
48:BQ:62:GLY:HA3	48:BQ:109:VAL:HG23	1.78	0.64
49:BR:103:ARG:O	49:BR:111:LEU:CD1	2.46	0.64
51:BT:35:LYS:NZ	51:BT:41:ARG:HD2	2.13	0.64
53:BV:74:LYS:O	53:BV:75:PHE:CB	2.45	0.64
56:BY:14:LEU:HA	56:BY:24:VAL:HG22	1.79	0.64
1:AA:185:A:H2'	1:AA:186:C:C6	2.33	0.64
1:AA:865:A:C2	1:AA:866:C:C2	2.86	0.64
3:AC:64:VAL:CG1	3:AC:66:VAL:HG23	2.28	0.64
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.13	0.64
7:AG:54:THR:O	7:AG:56:GLN:N	2.31	0.64
7:AG:144:MET:O	7:AG:147:ALA:HB3	1.97	0.64
11:AK:52:GLY:H	11:AK:55:LYS:HE3	1.62	0.64
19:AS:16:LEU:C	19:AS:18:LYS:H	2.04	0.64
31:B6:27:LYS:O	31:B6:28:ARG:C	2.41	0.64
35:BA:199:A:C6	35:BA:2433:A:H2'	2.33	0.64
35:BA:553:G:O2'	35:BA:554:U:H5'	1.97	0.64
35:BA:632:A:H2'	35:BA:633:A:C8	2.33	0.64
35:BA:862:G:H2'	35:BA:863:A:C8	2.32	0.64
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.32	0.64
35:BA:2168:G:H2'	35:BA:2170:A:OP2	1.96	0.64
35:BA:2437:U:H2'	35:BA:2438:U:H6	1.63	0.64
39:BE:103:ASP:OD2	39:BE:202:LYS:HE3	1.98	0.64
40:BF:155:LEU:HD11	40:BF:176:LEU:HD13	1.80	0.64
49:BR:62:ALA:HA	49:BR:65:LEU:CB	2.28	0.64
50:BS:58:LEU:HG	50:BS:59:LYS:H	1.61	0.64
57:BZ:108:PRO:HA	57:BZ:141:VAL:HG12	1.80	0.64
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.63	0.64
1:AA:243:A:C2	1:AA:246:A:C8	2.86	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:622:A:C8	1:AA:623:C:C4	2.86	0.64
1:AA:956:U:O2'	1:AA:957:U:H5'	1.98	0.64
1:AA:975:A:H4'	1:AA:976:G:C5'	2.20	0.64
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.12	0.64
9:AI:85:LEU:HD12	9:AI:85:LEU:C	2.23	0.64
12:AL:35:GLY:C	12:AL:58:VAL:HG13	2.23	0.64
14:AN:50:LYS:O	14:AN:52:GLN:N	2.31	0.64
15:AO:12:ILE:HD13	15:AO:22:THR:HG22	1.79	0.64
19:AS:31:ILE:HG23	19:AS:31:ILE:O	1.97	0.64
19:AS:61:TYR:O	19:AS:62:ILE:HB	1.97	0.64
24:AY:164:ILE:CD1	24:AY:252:THR:CG2	2.69	0.64
24:AY:490:GLU:OE2	24:AY:490:GLU:O	2.15	0.64
33:B8:8:LYS:NZ	33:B8:11:LYS:HE2	2.13	0.64
33:B8:10:ALA:O	33:B8:13:ARG:HG2	1.97	0.64
35:BA:601:C:C5'	40:BF:108:LYS:NZ	2.61	0.64
35:BA:666:G:H4'	47:BP:49:ARG:HE	1.63	0.64
35:BA:729:G:HO2'	35:BA:763:G:H4'	1.61	0.64
35:BA:999:U:C2'	35:BA:1000:A:H5'	2.27	0.64
35:BA:1199:U:O2'	35:BA:1200:C:O4'	2.16	0.64
35:BA:2391:G:O6	35:BA:2427:C:H1'	1.97	0.64
35:BA:2639:A:H2'	35:BA:2640:G:O4'	1.97	0.64
36:BB:54:G:H21	36:BB:55:U:H1'	1.63	0.64
38:BD:126:GLN:O	38:BD:193:VAL:CG1	2.44	0.64
40:BF:172:TRP:CD1	40:BF:172:TRP:H	2.15	0.64
47:BP:23:PRO:O	47:BP:29:LYS:O	2.16	0.64
49:BR:100:LEU:HD21	49:BR:112:ALA:O	1.98	0.64
50:BS:34:HIS:HB2	50:BS:36:TYR:HE1	1.63	0.64
51:BT:20:PRO:HG2	51:BT:85:LYS:O	1.97	0.64
52:BU:88:ILE:O	52:BU:88:ILE:HG13	1.97	0.64
53:BV:4:ILE:HA	53:BV:12:TYR:O	1.98	0.64
1:AA:436:C:C5'	4:AD:156:GLU:OE1	2.46	0.63
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.61	0.63
1:AA:1423:G:C5'	46:BO:49:ARG:HH12	2.11	0.63
3:AC:138:VAL:HG23	3:AC:149:ALA:CB	2.28	0.63
12:AL:90:VAL:HG11	12:AL:93:LEU:HD12	1.80	0.63
15:AO:12:ILE:HG23	15:AO:27:VAL:HG11	1.77	0.63
15:AO:30:ALA:O	15:AO:33:THR:HG22	1.98	0.63
17:AQ:83:ASP:O	17:AQ:86:GLU:HB2	1.97	0.63
24:AY:197:LYS:HB2	24:AY:202:GLN:CG	2.27	0.63
24:AY:395:PRO:CA	24:AY:441:VAL:HG22	2.26	0.63
25:B0:27:GLU:CD	35:BA:856:C:H1'	2.23	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:29:LYS:O	32:B7:33:ARG:HB2	1.98	0.63
35:BA:814:C:H2'	35:BA:815:C:H6	1.63	0.63
35:BA:1613:G:H1	35:BA:1617:C:C2'	2.11	0.63
35:BA:2514:U:H3	35:BA:2570:G:H1	1.45	0.63
35:BA:2577:A:H8	35:BA:2577:A:O5'	1.79	0.63
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.79	0.63
38:BD:31:LYS:O	38:BD:35:LYS:CB	2.46	0.63
40:BF:158:THR:HB	40:BF:195:ASP:HB2	1.80	0.63
40:BF:179:GLU:C	40:BF:181:LEU:H	2.05	0.63
42:BH:22:GLY:C	42:BH:23:ARG:HD3	2.23	0.63
46:BO:5:GLN:O	46:BO:5:GLN:HG3	1.97	0.63
49:BR:96:ARG:HB2	49:BR:96:ARG:NH1	2.13	0.63
51:BT:16:ARG:HH11	51:BT:16:ARG:CB	2.09	0.63
52:BU:108:GLU:O	52:BU:111:GLU:N	2.31	0.63
54:BW:57:ASN:O	54:BW:61:ASN:HB2	1.99	0.63
1:AA:907:A:C4	1:AA:908:A:C8	2.85	0.63
1:AA:918:A:N6	1:AA:919:A:N1	2.46	0.63
1:AA:935:A:H2	1:AA:1383:C:H42	1.46	0.63
2:AB:30:ARG:O	2:AB:32:ILE:N	2.28	0.63
8:AH:1:MET:HE3	8:AH:2:LEU:C	2.23	0.63
19:AS:17:GLU:HG2	19:AS:17:GLU:O	1.97	0.63
19:AS:63:THR:HG22	19:AS:66:MET:HG2	1.79	0.63
24:AY:19:ILE:C	24:AY:126:LEU:HD13	2.23	0.63
24:AY:315:VAL:HG21	24:AY:346:LEU:HD11	1.79	0.63
35:BA:529:A:C5	35:BA:2042:A:C2	2.86	0.63
35:BA:1155:A:OP1	52:BU:55:ARG:NE	2.28	0.63
35:BA:1267:U:C6	35:BA:2012:G:N2	2.66	0.63
35:BA:1845:G:C2	35:BA:1846:G:C4	2.86	0.63
35:BA:1862:G:N2	35:BA:1881:C:C2	2.67	0.63
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.32	0.63
35:BA:2287:A:N6	35:BA:2344:U:N3	2.36	0.63
35:BA:2398:U:H5'	35:BA:2399:G:OP2	1.98	0.63
35:BA:2845:G:H2'	35:BA:2846:G:C8	2.33	0.63
36:BB:17:C:C2'	36:BB:18:G:H5'	2.28	0.63
38:BD:10:THR:C	38:BD:11:PRO:O	2.41	0.63
40:BF:81:PRO:HG2	40:BF:82:ILE:HG22	1.81	0.63
40:BF:159:GLY:N	40:BF:178:PRO:HD3	2.14	0.63
42:BH:118:PRO:HD2	42:BH:121:ILE:CG2	2.28	0.63
47:BP:55:ARG:HG2	47:BP:57:THR:H	1.63	0.63
48:BQ:54:MET:C	48:BQ:56:ARG:N	2.56	0.63
48:BQ:135:ASP:O	48:BQ:138:ASP:OD2	2.16	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:23:ARG:HB3	50:BS:24:LEU:CD2	2.25	0.63
51:BT:50:ILE:HD12	51:BT:50:ILE:N	2.13	0.63
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ2	1.63	0.63
54:BW:76:VAL:HG23	54:BW:103:ILE:HG23	1.81	0.63
1:AA:673:G:C5	1:AA:734:G:C2	2.87	0.63
1:AA:688:G:C2'	1:AA:689:C:H5'	2.27	0.63
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.97	0.63
2:AB:12:GLU:C	2:AB:14:GLY:H	2.06	0.63
5:AE:12:LEU:HD22	5:AE:13:ILE:O	1.99	0.63
7:AG:15:ASP:HB3	7:AG:19:GLY:C	2.23	0.63
21:AU:16:GLY:O	21:AU:17:THR:HG23	1.99	0.63
27:B2:32:LEU:HA	27:B2:53:LEU:HD13	1.78	0.63
30:B5:44:THR:HG22	30:B5:45:VAL:N	2.14	0.63
35:BA:560:C:H2'	35:BA:561:G:H8	1.64	0.63
35:BA:1569:A:C2	35:BA:1570:A:C5	2.86	0.63
35:BA:1833:U:C2	35:BA:1834:U:C5	2.86	0.63
35:BA:1904:G:O2'	35:BA:1905:C:H5'	1.99	0.63
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.33	0.63
35:BA:2796:U:C3'	35:BA:2799:C:H5'	2.28	0.63
35:BA:2841:C:H2'	35:BA:2842:G:C8	2.33	0.63
36:BB:70:C:O2'	36:BB:71:C:H5'	1.98	0.63
36:BB:102:A:H5'	36:BB:103:G:OP2	1.97	0.63
38:BD:182:LEU:N	38:BD:272:ALA:HB1	2.13	0.63
45:BN:70:LYS:HB3	45:BN:87:LEU:HB2	1.81	0.63
46:BO:14:THR:HG21	46:BO:94:ARG:HB2	1.78	0.63
51:BT:19:LEU:CD1	51:BT:78:LEU:HD23	2.28	0.63
51:BT:32:TYR:N	51:BT:32:TYR:CD1	2.66	0.63
54:BW:6:ILE:HA	54:BW:104:THR:HA	1.80	0.63
1:AA:528:C:H4'	1:AA:535:A:C5	2.34	0.63
1:AA:788:U:O2'	1:AA:789:U:H5'	1.98	0.63
1:AA:980:C:OP2	1:AA:981:U:O4	2.16	0.63
1:AA:1304:G:H1'	1:AA:1334:G:N2	2.13	0.63
1:AA:1353:G:C4	1:AA:1354:C:C5	2.85	0.63
1:AA:1491:G:C6	1:AA:1492:A:C6	2.87	0.63
2:AB:200:ILE:CG2	2:AB:202:PRO:HD3	2.28	0.63
4:AD:58:LEU:HD12	4:AD:59:ARG:NH1	2.07	0.63
4:AD:125:HIS:O	4:AD:126:ILE:HD12	1.97	0.63
4:AD:175:SER:HB3	4:AD:186:LEU:HD11	1.79	0.63
8:AH:44:PHE:HE2	8:AH:109:ILE:HG21	1.62	0.63
11:AK:15:ALA:HA	11:AK:77:MET:HA	1.79	0.63
11:AK:91:ARG:O	11:AK:94:ALA:HB3	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:14:ARG:N	13:AM:44:ARG:HH11	1.96	0.63
13:AM:90:LEU:O	13:AM:91:ARG:CB	2.45	0.63
24:AY:255:PHE:CZ	24:AY:275:TRP:HH2	2.10	0.63
24:AY:315:VAL:HG12	24:AY:316:ALA:N	2.13	0.63
24:AY:513:LEU:HD22	24:AY:517:ARG:NH2	2.13	0.63
28:B3:11:SER:HB2	35:BA:988:A:O5'	1.98	0.63
31:B6:16:CYS:O	31:B6:16:CYS:SG	2.56	0.63
32:B7:37:LYS:HZ3	32:B7:39:ARG:HH21	1.46	0.63
34:B9:2:LYS:HD3	34:B9:33:LYS:O	1.98	0.63
35:BA:307:G:N2	35:BA:310:A:O5'	2.31	0.63
35:BA:382:G:O2'	35:BA:383:U:H5'	1.97	0.63
35:BA:531:C:C5	35:BA:2035:G:C2	2.86	0.63
35:BA:1061:U:H3	44:BK:55:UNK:C	2.11	0.63
35:BA:1569:A:N3	35:BA:1570:A:C8	2.67	0.63
35:BA:1846:G:N2	35:BA:1847:A:C6	2.66	0.63
35:BA:1882:C:C2'	35:BA:1883:G:H5'	2.28	0.63
35:BA:2453:A:O2'	35:BA:2572:A:H1'	1.98	0.63
36:BB:69:G:N3	36:BB:69:G:H2'	2.13	0.63
38:BD:180:GLY:O	38:BD:182:LEU:HD12	1.98	0.63
41:BG:60:LEU:HD13	41:BG:60:LEU:O	1.98	0.63
41:BG:107:LEU:HD21	41:BG:178:PHE:CE1	2.34	0.63
47:BP:94:GLU:HG3	47:BP:124:LYS:HB2	1.80	0.63
52:BU:57:PHE:O	52:BU:58:ARG:C	2.41	0.63
53:BV:3:ALA:CB	53:BV:14:VAL:HG22	2.28	0.63
2:AB:97:TRP:HZ3	2:AB:172:ILE:HG22	1.64	0.63
3:AC:122:GLU:O	3:AC:125:GLU:N	2.31	0.63
5:AE:55:VAL:O	5:AE:58:ALA:HB3	1.98	0.63
11:AK:43:SER:HB2	11:AK:71:LYS:NZ	2.13	0.63
13:AM:6:GLY:O	13:AM:8:GLU:N	2.26	0.63
24:AY:62:MET:CG	24:AY:451:ALA:HB3	2.29	0.63
24:AY:154:LEU:HB3	24:AY:155:LEU:HD12	1.79	0.63
24:AY:197:LYS:HG3	24:AY:202:GLN:HG3	1.79	0.63
24:AY:249:GLY:O	24:AY:250:GLU:CB	2.46	0.63
28:B3:52:HIS:CG	36:BB:83:G:H4'	2.33	0.63
30:B5:41:PRO:HG2	30:B5:44:THR:CB	2.29	0.63
31:B6:15:GLU:OE2	31:B6:41:PRO:CB	2.46	0.63
33:B8:2:PRO:O	33:B8:4:MET:N	2.32	0.63
35:BA:654(J):A:C8	35:BA:654(L):G:H1'	2.30	0.63
35:BA:811:U:H4'	35:BA:1251:C:O4'	1.97	0.63
35:BA:1064:C:H3'	35:BA:1065:U:C5'	2.29	0.63
35:BA:1215:G:O2'	35:BA:1216:G:H5'	1.97	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1625:C:H2'	35:BA:1626:G:O4'	1.98	0.63
35:BA:1899:G:N2	35:BA:1902:C:N4	2.42	0.63
35:BA:2014:A:C2'	35:BA:2015:A:C8	2.82	0.63
35:BA:2240:C:O2'	35:BA:2241:A:H5'	1.98	0.63
37:BC:41:VAL:CG1	37:BC:214:VAL:HG13	2.28	0.63
40:BF:18:ARG:NH2	40:BF:199:TRP:HZ3	1.96	0.63
40:BF:158:THR:C	40:BF:160:ASN:H	2.07	0.63
41:BG:25:TYR:CD2	41:BG:31:VAL:HA	2.32	0.63
42:BH:91:GLY:HA2	42:BH:160:LYS:HZ1	1.64	0.63
45:BN:34:LEU:HD21	45:BN:120:LEU:CD2	2.18	0.63
48:BQ:77:LYS:HD3	48:BQ:81:VAL:HG13	1.80	0.63
50:BS:12:PHE:CD1	50:BS:12:PHE:N	2.59	0.63
51:BT:59:THR:OG1	51:BT:78:LEU:CD1	2.47	0.63
1:AA:623:C:H2'	1:AA:624:C:C6	2.33	0.63
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.61	0.63
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.79	0.63
10:AJ:82:ILE:CG2	10:AJ:86:MET:HE2	2.29	0.63
11:AK:63:LEU:HD23	11:AK:63:LEU:N	2.13	0.63
12:AL:102:ARG:HH21	12:AL:110:VAL:HG22	1.64	0.63
13:AM:75:ALA:HB1	13:AM:79:LYS:CE	2.25	0.63
15:AO:68:ARG:HD2	15:AO:72:ARG:HH21	1.63	0.63
19:AS:39:THR:HG22	19:AS:40:ILE:H	1.62	0.63
22:AV:15:G:H3'	22:AV:16:C:C5'	2.28	0.63
24:AY:86:LEU:HD12	24:AY:87:LEU:H	1.63	0.63
24:AY:307:MET:HG2	24:AY:313:ASP:N	2.14	0.63
26:B1:76:ARG:NH2	26:B1:95:LEU:CD1	2.62	0.63
27:B2:2:LYS:NZ	27:B2:5:GLU:CD	2.56	0.63
28:B3:45:GLY:C	28:B3:47:VAL:N	2.55	0.63
35:BA:55:G:H2'	35:BA:56:A:H8	1.63	0.63
35:BA:438:G:H2'	35:BA:440:G:H8	1.63	0.63
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.28	0.63
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.22	0.63
35:BA:1654:A:OP1	49:BR:3:HIS:N	2.32	0.63
35:BA:2641:G:H2'	35:BA:2642:G:O4'	1.97	0.63
36:BB:57:A:H8	41:BG:27:ASN:ND2	1.87	0.63
37:BC:6:ARG:HH22	37:BC:10:LEU:CD2	2.10	0.63
37:BC:107:TRP:O	37:BC:108:MET:HE3	1.99	0.63
37:BC:151:GLU:HA	37:BC:154:ARG:HG2	1.81	0.63
38:BD:131:LEU:HD22	38:BD:132:PRO:HD2	1.80	0.63
39:BE:77:ILE:CG2	39:BE:78:LEU:H	1.96	0.63
39:BE:197:ILE:HD11	39:BE:199:ARG:HH22	1.64	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:43:LYS:HG3	40:BF:43:LYS:O	1.97	0.63
40:BF:110:LEU:CD2	40:BF:183:VAL:HG13	2.27	0.63
41:BG:83:ARG:HB2	41:BG:84:LYS:HD2	1.79	0.63
42:BH:65:HIS:C	42:BH:65:HIS:CD2	2.76	0.63
47:BP:16:ARG:HB2	47:BP:16:ARG:HH11	1.61	0.63
49:BR:2:ARG:HH11	49:BR:2:ARG:HG3	1.63	0.63
49:BR:71:GLN:HE21	49:BR:71:GLN:HA	1.63	0.63
54:BW:27:LYS:H	54:BW:71:VAL:HG23	1.63	0.63
1:AA:961:U:O2'	1:AA:962:C:O5'	2.17	0.63
2:AB:130:ARG:NH2	2:AB:134:GLU:HG3	2.14	0.63
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.24	0.63
5:AE:84:PHE:CZ	5:AE:133:TYR:HB3	2.33	0.63
15:AO:39:LEU:CG	15:AO:56:LEU:HD21	2.27	0.63
15:AO:75:PRO:O	15:AO:79:ARG:HG3	1.98	0.63
24:AY:32:LYS:HZ3	24:AY:260:LEU:HA	1.62	0.63
24:AY:177:LYS:HE2	35:BA:2654:A:OP1	1.99	0.63
24:AY:259:ALA:C	24:AY:261:GLY:H	2.06	0.63
28:B3:13:ILE:HD11	35:BA:989:G:C4	2.34	0.63
35:BA:695:G:C4	35:BA:696:G:C8	2.87	0.63
35:BA:2147:G:H2'	35:BA:2148:G:H5'	1.81	0.63
36:BB:77:U:C4	36:BB:99:G:N2	2.66	0.63
37:BC:72:VAL:HG22	37:BC:74:VAL:HG23	1.80	0.63
38:BD:62:TYR:CE1	38:BD:64:ILE:HA	2.32	0.63
41:BG:7:LEU:O	41:BG:11:TYR:N	2.31	0.63
41:BG:60:LEU:O	41:BG:63:ILE:HG12	1.98	0.63
42:BH:26:VAL:HG22	42:BH:26:VAL:O	1.99	0.63
52:BU:36:ARG:HG2	52:BU:40:PHE:CE2	2.33	0.63
52:BU:108:GLU:O	52:BU:109:LEU:C	2.41	0.63
1:AA:360:A:H8	1:AA:360:A:O5'	1.80	0.63
1:AA:680:C:O2'	1:AA:681:C:H5'	1.98	0.63
5:AE:63:ARG:HA	5:AE:66:MET:HE2	1.81	0.63
19:AS:21:GLU:CG	19:AS:22:LEU:N	2.61	0.63
19:AS:44:MET:HE3	29:B4:47:GLN:CD	2.24	0.63
19:AS:47:HIS:NE2	29:B4:47:GLN:HB2	2.13	0.63
22:AV:62:C:C3'	22:AV:63:G:H5''	2.29	0.63
24:AY:158:VAL:O	24:AY:164:ILE:N	2.30	0.63
24:AY:177:LYS:HG2	35:BA:2654:A:OP1	1.98	0.63
24:AY:201:ILE:HA	24:AY:262:ASN:HD22	1.62	0.63
30:B5:19:ARG:HA	35:BA:2046:G:O5'	1.99	0.63
33:B8:53:PRO:CA	33:B8:56:GLU:OE1	2.46	0.63
35:BA:807:U:H5	47:BP:39:LYS:HZ1	1.46	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1791:A:O3'	38:BD:206:LEU:HD11	1.98	0.63
35:BA:1802:A:H2'	35:BA:1803:A:C8	2.34	0.63
35:BA:1922:G:H2'	35:BA:1923:U:C5'	2.29	0.63
35:BA:1927:A:N6	35:BA:1928:A:C2	2.67	0.63
35:BA:2080:G:C2	35:BA:2241:A:N3	2.67	0.63
35:BA:2390:U:O2'	35:BA:2391:G:H5'	1.99	0.63
38:BD:24:ILE:HG23	38:BD:82:ILE:O	1.98	0.63
39:BE:65:GLY:HA2	39:BE:70:ALA:HB1	1.80	0.63
39:BE:200:GLU:CD	39:BE:200:GLU:H	2.06	0.63
40:BF:33:LEU:HD21	40:BF:112:MET:CG	2.29	0.63
45:BN:24:GLY:C	45:BN:26:LEU:N	2.50	0.63
51:BT:26:ASP:CA	51:BT:48:ILE:HG23	2.29	0.63
51:BT:47:GLY:C	51:BT:48:ILE:HD12	2.24	0.63
57:BZ:69:THR:C	57:BZ:70:LEU:HD22	2.23	0.63
2:AB:152:PHE:O	2:AB:153:ARG:CG	2.47	0.63
2:AB:224:GLN:O	2:AB:226:ARG:N	2.31	0.63
4:AD:147:ALA:CB	4:AD:182:LYS:HG2	2.29	0.63
9:AI:99:LEU:O	9:AI:101:PHE:N	2.31	0.63
16:AP:72:ARG:HG2	16:AP:73:LEU:N	2.14	0.63
24:AY:398:PHE:CE1	24:AY:470:THR:HA	2.33	0.63
24:AY:415:GLY:HA3	24:AY:457:TYR:CE1	2.34	0.63
25:B0:32:ARG:HA	25:B0:64:ASP:OD1	1.98	0.63
28:B3:13:ILE:HD11	35:BA:989:G:C5	2.34	0.63
28:B3:28:LEU:HD23	28:B3:28:LEU:N	2.14	0.63
30:B5:12:SER:O	30:B5:16:ARG:N	2.31	0.63
33:B8:61:LEU:CD1	33:B8:62:LEU:H	2.12	0.63
35:BA:336:C:O3'	56:BY:7:VAL:HG22	1.99	0.63
35:BA:918:A:N3	36:BB:80:U:O2'	2.26	0.63
35:BA:991:C:H5'	35:BA:991:C:H6	1.63	0.63
35:BA:1044:G:OP2	43:BJ:4:UNK:N	2.31	0.63
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.32	0.63
35:BA:1799:G:O3'	38:BD:260:ARG:NH2	2.32	0.63
35:BA:2111:C:H1'	35:BA:2118:U:C4'	2.29	0.63
35:BA:2605:U:C2'	35:BA:2606:C:C6	2.73	0.63
38:BD:165:ILE:HA	38:BD:175:LEU:CD2	2.28	0.63
40:BF:82:ILE:O	40:BF:83:PHE:HB2	1.98	0.63
48:BQ:65:PHE:O	48:BQ:104:PHE:HB3	1.98	0.63
51:BT:62:THR:HG22	51:BT:75:ILE:HG13	1.81	0.63
52:BU:91:ASP:O	52:BU:95:LEU:HB2	1.99	0.63
54:BW:66:GLU:O	54:BW:68:ARG:N	2.31	0.63
56:BY:73:ARG:HB3	56:BY:80:GLY:CA	2.29	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:16:A:O2'	1:AA:17:U:H5'	1.98	0.62
1:AA:586:C:OP1	17:AQ:34:LYS:NZ	2.32	0.62
1:AA:1061:G:C2'	1:AA:1062:U:H5'	2.29	0.62
1:AA:1128:C:H2'	1:AA:1139:G:N7	2.14	0.62
5:AE:50:GLU:CG	5:AE:52:PRO:HD2	2.11	0.62
7:AG:40:ALA:HB1	7:AG:44:TYR:CE2	2.34	0.62
19:AS:75:ALA:N	19:AS:76:PRO:HD2	2.14	0.62
24:AY:21:HIS:HD2	24:AY:122:ARG:CB	2.12	0.62
24:AY:22:PRO:O	24:AY:24:ALA:N	2.32	0.62
24:AY:171:TRP:N	24:AY:182:VAL:HG13	2.13	0.62
24:AY:386:LYS:C	24:AY:386:LYS:HD2	2.24	0.62
27:B2:32:LEU:HD12	27:B2:57:ILE:HG13	1.81	0.62
27:B2:47:ASN:O	27:B2:50:ILE:HB	1.99	0.62
30:B5:40:LYS:HG3	30:B5:41:PRO:O	1.99	0.62
35:BA:292:C:O2'	35:BA:293:U:H5'	1.99	0.62
35:BA:654:A:C8	35:BA:654(V):A:H4'	2.34	0.62
35:BA:919:G:H4'	36:BB:81:G:O4'	1.99	0.62
35:BA:976:C:N3	35:BA:987:G:N2	2.46	0.62
35:BA:1293:C:H2'	35:BA:1294:U:H6	1.64	0.62
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.64	0.62
35:BA:2289:G:N2	35:BA:2344:U:N3	2.47	0.62
35:BA:2681:C:H5	35:BA:2727:G:C2	2.17	0.62
41:BG:16:ARG:NE	41:BG:31:VAL:HG11	2.13	0.62
41:BG:139:LEU:HB2	41:BG:146:TYR:HD1	1.63	0.62
49:BR:38:VAL:HG21	49:BR:110:PRO:HB2	1.81	0.62
50:BS:89:ARG:NH2	50:BS:91:PRO:HG2	2.13	0.62
51:BT:108:ARG:HB3	51:BT:111:ARG:HH22	1.63	0.62
55:BX:55:ASN:HB2	55:BX:80:ILE:HD11	1.81	0.62
1:AA:580:U:H5''	15:AO:58:MET:HG3	1.81	0.62
1:AA:730:G:H2'	1:AA:731:G:O4'	1.99	0.62
1:AA:753:A:H5''	15:AO:69:TYR:CZ	2.34	0.62
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.80	0.62
1:AA:1152:A:P	10:AJ:70:ARG:HH22	2.21	0.62
1:AA:1375:A:H2'	1:AA:1376:U:O4'	1.98	0.62
1:AA:1447:A:H2'	1:AA:1447:A:N3	2.14	0.62
3:AC:174:PRO:C	3:AC:176:HIS:N	2.56	0.62
8:AH:87:SER:OG	8:AH:93:VAL:N	2.32	0.62
10:AJ:33:GLN:HB2	10:AJ:75:ILE:HD11	1.80	0.62
12:AL:86:ARG:HG2	12:AL:86:ARG:O	1.99	0.62
16:AP:12:LYS:O	16:AP:13:HIS:HB2	1.98	0.62
19:AS:43:GLU:C	19:AS:45:VAL:N	2.57	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:51:GLU:O	20:AT:55:ILE:HG12	1.99	0.62
24:AY:305:ALA:CB	24:AY:423:GLY:H	2.12	0.62
24:AY:320:VAL:O	24:AY:361:PRO:HA	1.99	0.62
24:AY:419:LEU:HD23	24:AY:424:ALA:HB3	1.79	0.62
24:AY:420:SER:CB	24:AY:427:VAL:HG22	2.27	0.62
31:B6:19:ARG:NH1	31:B6:43:CYS:SG	2.72	0.62
33:B8:42:ARG:HG3	35:BA:2349:G:OP2	1.99	0.62
35:BA:194:G:H2'	35:BA:195:A:O4'	1.98	0.62
35:BA:675:A:O2'	40:BF:67:GLN:NE2	2.32	0.62
35:BA:1057:A:H2	35:BA:1082:U:H3	1.41	0.62
35:BA:1484:G:H2'	35:BA:1485:G:C5'	2.18	0.62
35:BA:1605:C:C2'	35:BA:1606:G:H5'	2.29	0.62
35:BA:1782:C:O5'	35:BA:1782:C:H6	1.82	0.62
35:BA:2311:A:H2'	35:BA:2312:U:C5	2.34	0.62
35:BA:2564:A:H2'	35:BA:2565:A:O4'	1.99	0.62
35:BA:2673:G:H8	35:BA:2673:G:H5'	1.64	0.62
35:BA:2811:G:P	39:BE:60:ASN:HB2	2.39	0.62
37:BC:120:MET:CE	37:BC:123:VAL:HG11	2.29	0.62
39:BE:81:ILE:HG22	39:BE:81:ILE:O	1.97	0.62
47:BP:113:LYS:HA	47:BP:129:ALA:O	1.99	0.62
53:BV:39:LEU:N	53:BV:39:LEU:HD22	2.13	0.62
57:BZ:45:ASP:OD2	57:BZ:49:ARG:NH2	2.32	0.62
1:AA:861:G:O2'	1:AA:862:C:H5'	1.98	0.62
1:AA:1376:U:C2	1:AA:1377:A:N7	2.68	0.62
3:AC:35:GLU:OE1	3:AC:59:ARG:NH1	2.31	0.62
3:AC:83:ARG:HG3	3:AC:87:LEU:CD1	2.28	0.62
11:AK:57:THR:HG22	11:AK:60:ALA:CB	2.29	0.62
19:AS:11:VAL:CG2	19:AS:38:SER:HB2	2.27	0.62
24:AY:26:LYS:HD3	24:AY:89:THR:O	2.00	0.62
24:AY:452:ARG:C	24:AY:454:LYS:H	2.06	0.62
27:B2:68:ARG:HG2	27:B2:68:ARG:O	1.99	0.62
29:B4:9:LEU:HD21	29:B4:26:SER:HA	1.81	0.62
32:B7:2:LYS:HE3	32:B7:6:GLN:CG	2.29	0.62
35:BA:360:G:O2'	35:BA:361:G:H5'	1.99	0.62
35:BA:816:C:N3	35:BA:1192:G:C2	2.67	0.62
35:BA:1248:G:OP2	40:BF:92:PRO:HG3	2.00	0.62
35:BA:1286:A:H2'	35:BA:1288:U:OP2	1.99	0.62
35:BA:2230:G:H8	35:BA:2230:G:O5'	1.83	0.62
35:BA:2292:C:H2'	35:BA:2293:C:H6	1.64	0.62
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.00	0.62
38:BD:176:ARG:CD	38:BD:182:LEU:HD11	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:186:HIS:NE2	38:BD:188:GLU:HB2	2.14	0.62
40:BF:185:ASP:HA	40:BF:188:ARG:CG	2.28	0.62
41:BG:33:ARG:N	41:BG:162:THR:HB	2.13	0.62
43:BJ:74:UNK:C	43:BJ:76:UNK:H	2.13	0.62
47:BP:50:ARG:CG	47:BP:51:PHE:H	2.12	0.62
50:BS:74:ALA:HB1	50:BS:103:GLU:CG	2.29	0.62
52:BU:70:ARG:HA	52:BU:74:LEU:O	2.00	0.62
54:BW:37:ARG:HG3	54:BW:37:ARG:NH1	2.14	0.62
1:AA:125:U:H2'	1:AA:126:G:C8	2.34	0.62
1:AA:306:G:C2'	1:AA:307:C:H5'	2.29	0.62
1:AA:1231:G:O2'	1:AA:1232:U:H5'	1.99	0.62
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.64	0.62
3:AC:43:LEU:O	3:AC:47:LEU:HB2	1.99	0.62
4:AD:3:ARG:HD3	4:AD:3:ARG:O	2.00	0.62
17:AQ:10:VAL:HG12	17:AQ:53:LEU:HA	1.80	0.62
18:AR:31:LEU:HD23	18:AR:31:LEU:H	1.64	0.62
18:AR:41:LYS:C	18:AR:43:PHE:H	2.08	0.62
18:AR:76:LEU:C	18:AR:78:LEU:H	2.06	0.62
24:AY:110:LEU:HD12	24:AY:138:LEU:O	1.99	0.62
24:AY:222:ASP:C	24:AY:226:GLN:HB2	2.22	0.62
24:AY:342:ILE:HD11	24:AY:345:ALA:HB1	1.78	0.62
24:AY:512:ARG:O	24:AY:516:GLU:CG	2.42	0.62
25:B0:38:VAL:CG1	25:B0:59:LEU:HD12	2.29	0.62
26:B1:50:ARG:O	26:B1:51:VAL:HG13	1.98	0.62
28:B3:8:LEU:HA	28:B3:54:VAL:HG22	1.79	0.62
30:B5:45:VAL:HG22	30:B5:51:TYR:CD1	2.35	0.62
34:B9:7:VAL:HG22	34:B9:34:GLN:HG3	1.82	0.62
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.64	0.62
35:BA:304:G:H1	35:BA:313:C:H42	1.47	0.62
35:BA:628:G:H2'	35:BA:629:G:H5'	1.81	0.62
35:BA:733:G:N7	35:BA:761:A:C6	2.67	0.62
35:BA:940:G:H2'	35:BA:941:A:O4'	1.98	0.62
35:BA:2043:C:OP1	35:BA:2777:G:O2'	2.15	0.62
35:BA:2444:G:P	40:BF:68:LYS:HE3	2.39	0.62
38:BD:31:LYS:N	38:BD:104:TYR:OH	2.32	0.62
38:BD:34:VAL:O	38:BD:34:VAL:HG23	1.98	0.62
38:BD:53:PHE:C	38:BD:218:ARG:HB2	2.24	0.62
38:BD:147:LEU:C	38:BD:189:CYS:SG	2.82	0.62
40:BF:140:LEU:O	40:BF:143:ALA:HB3	1.99	0.62
40:BF:165:ARG:HG2	40:BF:168:ARG:NH2	2.14	0.62
41:BG:25:TYR:CE2	41:BG:32:PRO:HD3	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:122:THR:C	42:BH:123:PHE:CD1	2.77	0.62
45:BN:9:VAL:CG1	45:BN:39:ARG:HH22	2.12	0.62
45:BN:46:VAL:HG12	45:BN:48:MET:HG3	1.81	0.62
46:BO:35:VAL:HG11	46:BO:103:ALA:HB3	1.80	0.62
48:BQ:12:GLN:OE1	48:BQ:72:LYS:HA	1.99	0.62
48:BQ:106:VAL:O	48:BQ:107:ALA:HB2	2.00	0.62
51:BT:52:ILE:HG12	51:BT:61:PHE:CB	2.29	0.62
53:BV:49:THR:HB	53:BV:50:PRO:CD	2.29	0.62
57:BZ:175:VAL:HB	57:BZ:176:PRO:CD	2.30	0.62
1:AA:397:A:H3'	1:AA:397:A:N3	2.14	0.62
1:AA:587:G:OP1	8:AH:92:ARG:NH1	2.32	0.62
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.35	0.62
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.63	0.62
3:AC:153:VAL:O	3:AC:154:SER:CB	2.48	0.62
4:AD:92:VAL:O	4:AD:96:LEU:HD13	1.98	0.62
4:AD:127:THR:N	4:AD:147:ALA:O	2.32	0.62
5:AE:80:ILE:HD11	5:AE:138:ALA:HA	1.81	0.62
5:AE:82:VAL:HG21	5:AE:138:ALA:N	2.14	0.62
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.29	0.62
15:AO:17:ARG:HB3	15:AO:17:ARG:HH11	1.64	0.62
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.62	0.62
21:AU:5:ASP:O	21:AU:7:ARG:N	2.32	0.62
25:B0:25:ARG:HD2	25:B0:29:GLN:NE2	2.13	0.62
32:B7:13:ALA:HB1	35:BA:125:G:H1'	1.81	0.62
33:B8:10:ALA:HA	33:B8:13:ARG:HG2	1.79	0.62
35:BA:58:G:N3	35:BA:73:A:H2	1.97	0.62
35:BA:307:G:H22	35:BA:310:A:C5'	2.13	0.62
35:BA:743:G:O3'	39:BE:132:HIS:HB3	1.99	0.62
35:BA:1137:G:O2'	35:BA:2039:C:H5''	1.99	0.62
35:BA:1286:A:H2	35:BA:1328:G:O2'	1.82	0.62
35:BA:1445(A):C:H2'	35:BA:1446:C:H6	1.59	0.62
35:BA:1707:G:O2'	35:BA:1708:C:H5'	1.99	0.62
35:BA:1827:C:O2'	35:BA:1828:G:H5'	2.00	0.62
35:BA:2142:C:O2'	35:BA:2143:C:H5'	1.99	0.62
35:BA:2238:G:N3	35:BA:2238:G:H2'	2.15	0.62
35:BA:2466:C:O2'	35:BA:2467:C:H5'	1.99	0.62
35:BA:2801(A):A:H4'	35:BA:2802:G:H2'	1.81	0.62
37:BC:186:ALA:HB1	37:BC:190:ARG:CZ	2.29	0.62
38:BD:70:TRP:CD1	38:BD:70:TRP:C	2.76	0.62
39:BE:62:PRO:O	39:BE:64:LYS:N	2.32	0.62
41:BG:92:VAL:O	41:BG:92:VAL:HG13	1.98	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:126:VAL:HG22	47:BP:145:PRO:HG2	1.79	0.62
50:BS:13:ARG:HA	50:BS:15:ARG:HD2	1.80	0.62
51:BT:123:GLN:HA	51:BT:126:ALA:HB3	1.81	0.62
53:BV:4:ILE:CD1	53:BV:40:LEU:HB2	2.30	0.62
53:BV:40:LEU:HD13	53:BV:46:VAL:H	1.64	0.62
55:BX:49:VAL:HG11	55:BX:88:LYS:O	1.98	0.62
1:AA:35:G:H2'	1:AA:36:C:C6	2.35	0.62
1:AA:40:C:H2'	1:AA:41:G:C8	2.34	0.62
1:AA:78:G:H1	1:AA:91:C:H42	1.47	0.62
1:AA:980:C:C5	1:AA:981:U:C2	2.87	0.62
2:AB:127:ILE:HD11	2:AB:139:LYS:CE	2.29	0.62
3:AC:131:ARG:HH11	3:AC:166:GLU:CD	2.07	0.62
3:AC:134:ILE:HG22	3:AC:168:ALA:HB3	1.81	0.62
4:AD:96:LEU:HD23	4:AD:139:ARG:HH11	1.65	0.62
9:AI:114:TYR:CD1	9:AI:114:TYR:O	2.53	0.62
12:AL:7:ILE:CD1	12:AL:10:LEU:HD12	2.30	0.62
24:AY:349:MET:SD	24:AY:356:VAL:HG13	2.40	0.62
24:AY:391:PRO:O	24:AY:392:ASN:CB	2.46	0.62
24:AY:462:VAL:CG1	24:AY:463:TYR:N	2.52	0.62
31:B6:11:LEU:HD13	31:B6:12:GLU:O	1.99	0.62
35:BA:566:U:H4'	35:BA:809:G:P	2.39	0.62
35:BA:618:C:O2'	35:BA:619:G:H5'	2.00	0.62
35:BA:750:A:C2'	35:BA:751:A:H5''	2.30	0.62
35:BA:1070:A:N6	44:BK:7:UNK:C	2.62	0.62
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.63	0.62
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.35	0.62
35:BA:2132:U:H3	37:BC:5:LYS:HB2	1.63	0.62
35:BA:2325:G:H2'	35:BA:2326:C:C6	2.34	0.62
38:BD:24:ILE:HD13	38:BD:84:TYR:HA	1.81	0.62
38:BD:24:ILE:HG23	38:BD:83:GLU:CA	2.29	0.62
39:BE:24:THR:HB	39:BE:184:VAL:CG2	2.29	0.62
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.81	0.62
41:BG:21:ARG:NE	41:BG:21:ARG:O	2.33	0.62
41:BG:82:LEU:HD21	41:BG:86:MET:HE2	1.81	0.62
42:BH:18:GLU:N	42:BH:25:LYS:O	2.33	0.62
42:BH:98:LEU:CD1	42:BH:102:ALA:O	2.47	0.62
52:BU:36:ARG:NH1	52:BU:36:ARG:HB2	2.15	0.62
1:AA:543:C:H5'	4:AD:14:ARG:NH2	2.15	0.62
1:AA:787:A:C2'	1:AA:788:U:H5'	2.30	0.62
1:AA:1152:A:H2'	1:AA:1153:C:C5	2.35	0.62
1:AA:1483:A:C2	35:BA:1960:A:H1'	2.35	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1500:A:C2'	1:AA:1501:C:H5'	2.30	0.62
2:AB:233:SER:O	2:AB:234:PRO:C	2.41	0.62
4:AD:118:ARG:O	4:AD:121:VAL:HB	1.99	0.62
5:AE:89:ILE:HG12	5:AE:90:VAL:N	2.15	0.62
7:AG:72:ARG:HB2	7:AG:142:GLU:OE2	2.00	0.62
7:AG:122:HIS:O	7:AG:125:MET:N	2.33	0.62
9:AI:37:PHE:CE2	9:AI:74:ILE:HG12	2.35	0.62
16:AP:19:ILE:HG12	16:AP:38:TYR:N	2.14	0.62
24:AY:30:THR:HG21	24:AY:88:ASP:HB2	1.81	0.62
24:AY:146:ARG:NH2	24:AY:177:LYS:HE2	2.14	0.62
24:AY:488:LYS:HB3	24:AY:518:TYR:OH	1.99	0.62
24:AY:503:TYR:CZ	24:AY:514:ALA:HB2	2.35	0.62
26:B1:54:ALA:HB3	26:B1:56:GLN:HG2	1.81	0.62
33:B8:26:LYS:NZ	35:BA:2361:A:OP2	2.29	0.62
35:BA:636:G:C2'	47:BP:115:LEU:HD12	2.29	0.62
35:BA:648:G:H5''	35:BA:2352:A:H5'	1.82	0.62
35:BA:888:C:C4	35:BA:890:A:OP1	2.53	0.62
35:BA:1498:C:H2'	35:BA:1499:C:H5''	1.82	0.62
35:BA:1887:C:H2'	35:BA:1888:G:H5''	1.82	0.62
35:BA:2101:G:C3'	35:BA:2102:U:H5''	2.29	0.62
35:BA:2106:G:O6	35:BA:2183:C:N3	2.33	0.62
35:BA:2620:C:H2'	35:BA:2621:A:O4'	1.98	0.62
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.81	0.62
37:BC:117:PRO:HG3	37:BC:145:VAL:CG1	2.30	0.62
38:BD:242:ARG:HG2	38:BD:242:ARG:NH1	2.12	0.62
40:BF:31:HIS:HB2	47:BP:13:ASN:OD1	2.00	0.62
41:BG:140:ILE:C	41:BG:140:ILE:CD1	2.73	0.62
46:BO:64:ARG:HH21	46:BO:100:GLY:HA3	1.64	0.62
48:BQ:21:THR:HG23	48:BQ:101:ARG:HD2	1.81	0.62
57:BZ:123:ASP:O	57:BZ:124:ILE:HG23	2.00	0.62
57:BZ:152:ALA:HB1	57:BZ:167:PRO:CB	2.16	0.62
1:AA:360:A:P	24:AY:411:GLN:HE22	2.22	0.62
1:AA:401:C:O2'	1:AA:621:A:N3	2.33	0.62
1:AA:528:C:H41	12:AL:49:ASN:HD21	1.48	0.62
1:AA:543:C:P	4:AD:10:ARG:HH12	2.23	0.62
1:AA:689:C:O2'	1:AA:690:G:H5'	1.99	0.62
1:AA:1134:G:N2	1:AA:1141:C:C2	2.67	0.62
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.30	0.62
15:AO:41:GLU:OE1	15:AO:41:GLU:HA	1.99	0.62
18:AR:61:LYS:O	18:AR:62:GLU:C	2.41	0.62
23:AX:14:A:C2'	23:AX:15:A:H5''	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:11:ALA:CA	24:AY:279:PRO:HD2	2.27	0.62
24:AY:315:VAL:HG12	24:AY:316:ALA:H	1.65	0.62
24:AY:453:LEU:CB	24:AY:459:VAL:HG23	2.21	0.62
26:B1:3:LYS:HZ3	26:B1:4:VAL:HG12	1.64	0.62
35:BA:489:G:N2	35:BA:1321:A:OP1	2.31	0.62
35:BA:857:C:N4	35:BA:920:G:H1	1.96	0.62
35:BA:1248:G:C5	52:BU:3:ARG:HB2	2.35	0.62
35:BA:1382:G:H4'	35:BA:1573:G:C2	2.35	0.62
35:BA:1636:C:O2	35:BA:1760:A:H2	1.83	0.62
35:BA:2006:C:O2'	35:BA:2823:A:N3	2.26	0.62
35:BA:2023:G:H2'	35:BA:2024:G:C8	2.33	0.62
35:BA:2043:C:H2'	35:BA:2044:C:C6	2.35	0.62
35:BA:2223:G:H4'	38:BD:269:PHE:HZ	1.64	0.62
35:BA:2681:C:O2	35:BA:2681:C:H2'	1.98	0.62
35:BA:2715:C:O2'	35:BA:2716:U:H5'	1.99	0.62
37:BC:10:LEU:O	37:BC:32:LEU:HD22	2.00	0.62
37:BC:186:ALA:HB1	37:BC:190:ARG:NH2	2.14	0.62
38:BD:33:LEU:HG	38:BD:34:VAL:N	2.13	0.62
42:BH:85:LYS:HZ1	42:BH:87:LEU:HD12	1.65	0.62
45:BN:126:PRO:O	45:BN:127:ASP:HB2	1.99	0.62
47:BP:62:LEU:HD22	47:BP:62:LEU:H	1.64	0.62
47:BP:146:VAL:HG13	47:BP:147:LEU:N	2.15	0.62
53:BV:59:ALA:HA	53:BV:95:LEU:O	1.99	0.62
53:BV:75:PHE:CD2	53:BV:82:ARG:HG3	2.34	0.62
54:BW:14:PRO:CB	54:BW:101:SER:HB3	2.29	0.62
56:BY:73:ARG:HE	56:BY:73:ARG:CA	2.06	0.62
57:BZ:51:ALA:O	57:BZ:53:ILE:N	2.32	0.62
57:BZ:151:HIS:HB3	57:BZ:170:THR:HA	1.81	0.62
1:AA:393:A:O2'	1:AA:394:G:H5'	1.98	0.62
1:AA:699:C:O2'	1:AA:700:G:H5'	2.00	0.62
1:AA:817:C:H5'	1:AA:820:U:OP2	2.00	0.62
1:AA:1351:U:H4'	7:AG:33:ASP:OD2	1.99	0.62
2:AB:80:ILE:H	2:AB:80:ILE:CD1	2.12	0.62
2:AB:162:ILE:O	2:AB:185:ILE:CD1	2.47	0.62
3:AC:174:PRO:C	3:AC:176:HIS:H	2.08	0.62
5:AE:70:PRO:HG2	5:AE:142:LEU:HD13	1.82	0.62
12:AL:27:LEU:O	12:AL:28:LYS:C	2.43	0.62
20:AT:10:LEU:C	20:AT:12:ALA:H	2.07	0.62
22:AV:26:G:H22	22:AV:44:A:N6	1.98	0.62
24:AY:6:TYR:CA	24:AY:360:TYR:HE2	2.13	0.62
25:B0:21:LEU:HD11	25:B0:41:ARG:HD3	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:20:ARG:HG3	26:B1:32:LYS:HD3	1.82	0.62
28:B3:13:ILE:HD11	35:BA:989:G:C2	2.35	0.62
28:B3:35:ARG:HG3	28:B3:35:ARG:NH1	2.15	0.62
35:BA:271(T):C:H2'	35:BA:271(U):G:H8	1.65	0.62
35:BA:863:A:H2'	35:BA:864:G:C8	2.35	0.62
35:BA:880:G:H8	35:BA:880:G:O5'	1.83	0.62
35:BA:1106:G:C2'	35:BA:1107:G:H5'	2.30	0.62
35:BA:1266:G:O2'	35:BA:2012:G:O6	2.17	0.62
35:BA:2581:G:C6	35:BA:2610:C:C2	2.88	0.62
35:BA:2681:C:C5	35:BA:2727:G:N2	2.68	0.62
38:BD:35:LYS:HG2	38:BD:63:ARG:HG2	1.80	0.62
38:BD:72:LYS:CD	38:BD:97:TYR:CE2	2.83	0.62
38:BD:95:LEU:H	38:BD:95:LEU:HD13	1.65	0.62
38:BD:111:LEU:HD13	38:BD:115:GLN:NE2	2.14	0.62
38:BD:164:GLN:HB3	38:BD:176:ARG:HB3	1.82	0.62
39:BE:87:GLU:O	39:BE:87:GLU:CG	2.48	0.62
46:BO:4:PRO:HA	46:BO:21:CYS:O	1.99	0.62
48:BQ:57:HIS:ND1	48:BQ:57:HIS:O	2.33	0.62
50:BS:83:LYS:HG2	50:BS:105:ALA:CB	2.28	0.62
51:BT:128:GLU:CD	51:BT:128:GLU:C	2.68	0.62
54:BW:4:LYS:HD3	54:BW:6:ILE:CD1	2.28	0.62
56:BY:26:LYS:HB2	56:BY:40:GLU:OE2	1.99	0.62
1:AA:667:G:O2'	15:AO:49:ASP:HA	1.99	0.62
1:AA:892:A:H2'	1:AA:893:C:H6	1.63	0.62
1:AA:1180:A:OP1	9:AI:103:THR:HG23	1.99	0.62
1:AA:1332:A:O2'	1:AA:1333:A:H5'	2.00	0.62
2:AB:8:LYS:NZ	2:AB:217:ARG:NH1	2.48	0.62
2:AB:15:VAL:HG21	2:AB:209:ARG:HE	1.65	0.62
2:AB:69:LEU:O	2:AB:162:ILE:CG1	2.44	0.62
4:AD:5:ILE:HA	4:AD:115:ARG:NH1	2.15	0.62
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.24	0.62
6:AF:43:LEU:N	6:AF:43:LEU:HD22	2.14	0.62
10:AJ:89:ASP:HB3	10:AJ:91:PRO:HD3	1.82	0.62
12:AL:33:ARG:NH2	12:AL:62:SER:HB3	2.15	0.62
13:AM:11:ARG:HG2	13:AM:12:ASN:H	1.64	0.62
15:AO:15:PHE:N	15:AO:15:PHE:CD1	2.67	0.62
18:AR:31:LEU:O	18:AR:31:LEU:HG	2.00	0.62
24:AY:10:VAL:HG22	24:AY:360:TYR:CD2	2.35	0.62
24:AY:181:GLY:HA3	24:AY:263:PHE:CE1	2.21	0.62
24:AY:305:ALA:HA	24:AY:422:GLU:HB3	1.80	0.62
24:AY:316:ALA:O	24:AY:317:PHE:O	2.18	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:487:ARG:C	24:AY:489:ASN:H	2.08	0.62
26:B1:82:LEU:O	26:B1:83:GLU:HG3	2.00	0.62
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.00	0.62
35:BA:644:A:N1	35:BA:2369:A:H1'	2.14	0.62
35:BA:1661:G:C5	35:BA:1662:C:C5	2.88	0.62
35:BA:2065:C:O2'	35:BA:2066:C:H5'	2.00	0.62
35:BA:2325:G:H2'	35:BA:2326:C:H6	1.64	0.62
35:BA:2474:C:H5''	35:BA:2475:C:C5	2.35	0.62
35:BA:2688:U:C4	35:BA:2719:G:H2'	2.34	0.62
38:BD:44:ASN:HD22	38:BD:47:GLY:C	2.07	0.62
38:BD:53:PHE:CA	38:BD:218:ARG:HB2	2.30	0.62
42:BH:51:ARG:HG2	42:BH:52:VAL:N	2.14	0.62
45:BN:55:VAL:HG22	45:BN:125:GLY:CA	2.23	0.62
45:BN:62:VAL:O	45:BN:63:THR:O	2.17	0.62
46:BO:89:ASN:O	46:BO:91:LEU:N	2.32	0.62
47:BP:50:ARG:HG3	47:BP:51:PHE:H	1.65	0.62
1:AA:277:C:H5''	17:AQ:68:ARG:HH22	1.65	0.61
1:AA:339:C:H2'	1:AA:340:U:C6	2.34	0.61
1:AA:736:C:O2'	6:AF:90:VAL:O	2.17	0.61
1:AA:763:G:O2'	1:AA:764:C:H5'	2.00	0.61
1:AA:902:G:O2'	1:AA:903:G:H5'	2.00	0.61
1:AA:1048:G:H5''	14:AN:2:ALA:HB1	1.83	0.61
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.30	0.61
2:AB:69:LEU:HD23	2:AB:159:PRO:CG	2.30	0.61
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.63	0.61
4:AD:65:ARG:HB2	4:AD:75:PHE:CE2	2.34	0.61
9:AI:114:TYR:HE2	10:AJ:60:ARG:H	1.47	0.61
10:AJ:64:GLU:OE2	10:AJ:66:ARG:CZ	2.48	0.61
13:AM:73:GLU:O	13:AM:76:ALA:HB3	1.98	0.61
13:AM:94:ARG:HG2	19:AS:82:GLY:N	2.15	0.61
19:AS:23:ASN:HB2	29:B4:47:GLN:CG	2.29	0.61
24:AY:18:ILE:HD12	24:AY:30:THR:OG1	2.00	0.61
24:AY:142:ASN:HD21	58:AY:1000:GCP:C5	2.13	0.61
29:B4:35:VAL:CG1	29:B4:36:CYS:H	2.12	0.61
30:B5:19:ARG:HA	35:BA:2046:G:C5'	2.30	0.61
31:B6:32:ASN:CG	31:B6:33:LYS:N	2.58	0.61
34:B9:30:PRO:O	34:B9:32:HIS:N	2.33	0.61
35:BA:1221:C:H2'	35:BA:1221(A):C:C5	2.34	0.61
35:BA:1514:U:H2'	35:BA:1515:G:C8	2.35	0.61
35:BA:1747(A):G:C2	35:BA:1748:G:C8	2.87	0.61
35:BA:1911:U:C2'	35:BA:1918:A:C2	2.77	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1917:U:O5'	35:BA:1917:U:H6	1.83	0.61
35:BA:2131:G:H5''	35:BA:2132:U:O5'	1.99	0.61
35:BA:2572:A:N7	39:BE:144:ARG:HG2	2.14	0.61
38:BD:68:LYS:HB3	38:BD:70:TRP:CZ3	2.34	0.61
39:BE:47:VAL:HB	39:BE:84:PHE:HD1	1.65	0.61
39:BE:82:ARG:O	39:BE:83:ASP:C	2.41	0.61
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	1.82	0.61
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.63	0.61
40:BF:170:LEU:HB3	40:BF:173:VAL:HG23	1.81	0.61
41:BG:56:ALA:CA	41:BG:153:ARG:HH21	2.12	0.61
42:BH:92:ILE:CD1	42:BH:95:ARG:NH2	2.62	0.61
45:BN:103:VAL:O	45:BN:104:LYS:C	2.42	0.61
47:BP:16:ARG:NH2	47:BP:18:ARG:HG3	2.15	0.61
47:BP:127:ALA:O	47:BP:148:LEU:HD12	2.00	0.61
48:BQ:133:ARG:HB3	48:BQ:133:ARG:NH1	2.12	0.61
50:BS:58:LEU:HD23	50:BS:65:VAL:HG13	1.82	0.61
50:BS:62:LYS:H	50:BS:65:VAL:CG2	2.13	0.61
51:BT:23:ARG:HB2	51:BT:24:PRO:HD2	1.82	0.61
52:BU:13:LYS:O	52:BU:17:ILE:HD13	2.00	0.61
52:BU:36:ARG:HA	52:BU:39:LEU:CG	2.29	0.61
53:BV:39:LEU:CD1	53:BV:51:VAL:HA	2.30	0.61
53:BV:95:LEU:HD13	53:BV:97:LYS:HE2	1.80	0.61
1:AA:354:G:H21	1:AA:388:G:H2'	1.65	0.61
1:AA:952:U:H6	1:AA:952:U:O5'	1.83	0.61
1:AA:981:U:O5'	1:AA:981:U:H6	1.83	0.61
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.35	0.61
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.00	0.61
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	1.99	0.61
4:AD:201:GLN:HA	4:AD:204:ILE:HD12	1.82	0.61
10:AJ:50:ILE:CD1	10:AJ:60:ARG:HD3	2.28	0.61
15:AO:63:ARG:HG2	15:AO:64:ARG:N	2.14	0.61
18:AR:55:ARG:HG3	18:AR:55:ARG:HH11	1.64	0.61
22:AV:71:C:H3'	22:AV:72:A:H8	1.65	0.61
24:AY:98:ASP:O	24:AY:102:THR:OG1	2.18	0.61
26:B1:48:LYS:NZ	26:B1:60:PHE:C	2.59	0.61
27:B2:36:ARG:HA	27:B2:39:ALA:CB	2.30	0.61
27:B2:54:LYS:HE2	35:BA:73:A:P	2.41	0.61
27:B2:62:THR:O	27:B2:65:ASN:HB2	2.00	0.61
27:B2:69:ARG:NH2	35:BA:111:A:H4'	2.15	0.61
30:B5:5:PRO:HB3	35:BA:2614:A:C4	2.35	0.61
33:B8:28:GLY:O	33:B8:32:LEU:HG	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:29:ASN:HD21	34:B9:32:HIS:CD2	2.19	0.61
35:BA:392:C:OP1	35:BA:409:C:OP1	2.17	0.61
35:BA:447:A:O4'	35:BA:449:A:N6	2.33	0.61
35:BA:1244:G:O2'	35:BA:1245:G:H5'	1.99	0.61
35:BA:1753:G:N2	35:BA:1755:A:H2'	2.14	0.61
35:BA:2054:A:OP1	39:BE:145:LYS:HE3	1.98	0.61
35:BA:2143:C:H5''	35:BA:2182:G:H4'	1.82	0.61
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.64	0.61
35:BA:2338:G:H8	35:BA:2338:G:O5'	1.84	0.61
35:BA:2391:G:H1'	35:BA:2429:G:N2	2.16	0.61
35:BA:2444:G:OP2	40:BF:68:LYS:NZ	2.29	0.61
35:BA:2577:A:H5''	35:BA:2578:G:C5'	2.30	0.61
35:BA:2777:G:C5'	35:BA:2778:A:H5'	2.30	0.61
36:BB:7:G:H4'	50:BS:29:PHE:CD2	2.35	0.61
38:BD:26:LYS:NZ	38:BD:113:VAL:CG2	2.54	0.61
38:BD:66:ASP:HB2	38:BD:103:ARG:HD2	1.83	0.61
38:BD:173:VAL:HG13	38:BD:185:VAL:O	1.99	0.61
41:BG:114:ILE:HA	41:BG:137:GLU:OE1	2.00	0.61
52:BU:112:ARG:CZ	53:BV:46:VAL:HG21	2.30	0.61
1:AA:503:C:O2'	1:AA:504:C:H5'	2.01	0.61
1:AA:601:C:H2'	1:AA:602:A:C8	2.33	0.61
1:AA:894:G:H2'	1:AA:895:G:C5'	2.29	0.61
1:AA:940:C:H2'	1:AA:941:G:C8	2.34	0.61
1:AA:1118:C:H42	1:AA:1155:G:H1	1.46	0.61
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.00	0.61
2:AB:9:GLU:N	2:AB:9:GLU:OE1	2.33	0.61
4:AD:65:ARG:HB2	4:AD:75:PHE:CD2	2.35	0.61
4:AD:118:ARG:CZ	4:AD:136:PRO:HG2	2.30	0.61
12:AL:33:ARG:O	12:AL:84:LEU:HD23	2.00	0.61
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.14	0.61
19:AS:51:VAL:HG11	19:AS:75:ALA:CB	2.30	0.61
24:AY:16:PHE:CE2	24:AY:84:VAL:HG11	2.35	0.61
24:AY:225:GLN:HA	24:AY:228:ARG:CB	2.27	0.61
35:BA:463:G:C2	35:BA:467:G:C6	2.88	0.61
35:BA:769:G:H2'	35:BA:770:G:H8	1.66	0.61
35:BA:962:G:C2	35:BA:963:U:H1'	2.35	0.61
35:BA:977:G:C6	35:BA:987:G:C5	2.88	0.61
35:BA:2100:G:C3'	35:BA:2101:G:C8	2.81	0.61
35:BA:2462:U:H1'	35:BA:2491:U:O4	2.01	0.61
35:BA:2781:A:H5''	35:BA:2782:G:H5'	1.81	0.61
38:BD:26:LYS:HZ2	38:BD:113:VAL:CG2	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:101:ARG:HD2	39:BE:169:ASN:HD22	1.64	0.61
40:BF:143:ALA:O	40:BF:148:LEU:HB2	2.00	0.61
50:BS:40:ILE:HB	50:BS:46:VAL:O	1.99	0.61
51:BT:107:ASP:N	51:BT:110:ILE:HG12	2.13	0.61
52:BU:83:LEU:H	52:BU:83:LEU:CD1	2.13	0.61
52:BU:102:GLU:HB2	52:BU:105:VAL:HG21	1.83	0.61
1:AA:582:U:C2	1:AA:583:A:C8	2.88	0.61
1:AA:600:C:H2'	1:AA:601:C:H6	1.66	0.61
1:AA:728:A:N6	15:AO:51:HIS:CD2	2.69	0.61
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.35	0.61
1:AA:1477:C:O2'	1:AA:1478:C:H5'	1.99	0.61
2:AB:201:ILE:O	2:AB:202:PRO:C	2.40	0.61
13:AM:102:ARG:HD3	13:AM:105:THR:OG1	2.01	0.61
18:AR:35:ARG:O	18:AR:37:VAL:N	2.34	0.61
21:AU:9:ARG:NH2	21:AU:23:PRO:HD2	2.15	0.61
22:AV:53:G:H22	22:AV:61:C:H42	1.49	0.61
24:AY:303:ILE:CG1	24:AY:375:ILE:CD1	2.78	0.61
30:B5:11:THR:OG1	35:BA:1264:G:H5'	2.00	0.61
35:BA:1057:A:H2'	35:BA:1058:G:H5'	1.83	0.61
35:BA:1776:G:O5'	35:BA:1776:G:C8	2.53	0.61
35:BA:1803:A:C2'	35:BA:1804:C:H6	2.12	0.61
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.32	0.61
35:BA:2521:C:H42	35:BA:2544:G:H1	1.45	0.61
35:BA:2870:C:H2'	35:BA:2871:C:H5'	1.83	0.61
38:BD:117:VAL:CG2	38:BD:129:ASN:OD1	2.48	0.61
39:BE:113:PHE:HE1	39:BE:158:GLY:HA2	1.64	0.61
39:BE:164:ARG:O	39:BE:165:VAL:HG23	2.00	0.61
40:BF:28:ILE:CG2	40:BF:116:ASP:HB2	2.29	0.61
45:BN:52:VAL:O	45:BN:53:VAL:HG23	1.99	0.61
48:BQ:137:TYR:OH	57:BZ:81:ARG:NE	2.33	0.61
49:BR:83:ILE:HA	49:BR:86:ARG:HD3	1.83	0.61
51:BT:130:ALA:O	51:BT:132:LYS:HE2	2.00	0.61
52:BU:9:VAL:HG23	52:BU:10:ARG:N	2.15	0.61
52:BU:88:ILE:HG22	53:BV:48:GLY:O	2.01	0.61
52:BU:112:ARG:NH1	53:BV:46:VAL:HG21	2.16	0.61
54:BW:17:VAL:O	54:BW:20:VAL:HG22	2.01	0.61
57:BZ:143:GLY:C	57:BZ:144:LEU:HD22	2.26	0.61
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.15	0.61
1:AA:1004:A:N6	1:AA:1035:A:C8	2.69	0.61
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.36	0.61
1:AA:1200:C:OP1	1:AA:1201:A:H2'	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.32	0.61
1:AA:1494:G:H2'	1:AA:1495:U:H5'	1.83	0.61
2:AB:36:ARG:HA	2:AB:36:ARG:NE	2.15	0.61
2:AB:210:SER:O	2:AB:213:LEU:HB3	1.99	0.61
3:AC:113:ALA:HB1	3:AC:200:ALA:O	2.01	0.61
13:AM:54:VAL:HG22	13:AM:57:ARG:CZ	2.31	0.61
21:AU:18:TYR:CZ	21:AU:24:ARG:NH1	2.69	0.61
24:AY:12:LYS:O	24:AY:13:ARG:O	2.17	0.61
24:AY:416:LEU:O	24:AY:417:VAL:C	2.44	0.61
25:B0:21:LEU:CD1	25:B0:41:ARG:HD3	2.31	0.61
28:B3:7:LYS:HG3	28:B3:32:GLN:O	1.99	0.61
28:B3:35:ARG:HG2	28:B3:36:VAL:H	1.64	0.61
30:B5:49:CYS:O	30:B5:56:LYS:CD	2.47	0.61
35:BA:8:A:H2'	35:BA:9:U:C5	2.35	0.61
35:BA:40:C:H2'	35:BA:41:C:C6	2.35	0.61
35:BA:327:G:C2	35:BA:336:C:N3	2.68	0.61
35:BA:372:G:H1'	35:BA:373:U:H5	1.65	0.61
35:BA:624:C:H5	47:BP:107:LYS:NZ	1.97	0.61
35:BA:693:C:H1'	35:BA:1354:A:H1'	1.81	0.61
35:BA:909:A:O2'	35:BA:910:A:H5'	2.00	0.61
35:BA:946:G:O2'	35:BA:947:G:H5'	2.01	0.61
35:BA:1056:G:N3	35:BA:1102:C:H5	1.97	0.61
35:BA:1720:U:C3'	35:BA:1721:G:H5''	2.30	0.61
35:BA:1754:C:H2'	35:BA:1755:A:O4'	2.01	0.61
35:BA:2496:C:H2'	35:BA:2497:A:C8	2.35	0.61
35:BA:2688:U:H2'	35:BA:2719:G:N2	2.16	0.61
35:BA:2839:G:OP1	49:BR:46:GLY:CA	2.47	0.61
37:BC:6:ARG:NH2	37:BC:10:LEU:CD2	2.64	0.61
37:BC:72:VAL:HG11	37:BC:156:ILE:O	2.00	0.61
37:BC:104:LEU:O	37:BC:105:ASP:HB2	2.00	0.61
38:BD:224:ALA:O	38:BD:234:GLY:HA2	1.99	0.61
38:BD:248:SER:CB	38:BD:252:TRP:CE2	2.83	0.61
39:BE:171:GLU:C	39:BE:173:VAL:H	2.08	0.61
40:BF:165:ARG:CA	40:BF:168:ARG:HH21	2.13	0.61
42:BH:18:GLU:CB	42:BH:25:LYS:HG3	2.30	0.61
45:BN:48:MET:HE3	45:BN:48:MET:N	2.16	0.61
46:BO:61:VAL:HG22	46:BO:62:VAL:O	2.00	0.61
47:BP:39:LYS:C	47:BP:41:ARG:HG2	2.23	0.61
47:BP:106:LEU:O	47:BP:107:LYS:HG2	2.00	0.61
51:BT:25:GLY:O	51:BT:49:VAL:HG12	1.99	0.61
55:BX:14:SER:OG	55:BX:17:ALA:CB	2.49	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:338:A:H2'	1:AA:339:C:O4'	1.99	0.61
1:AA:545:C:O2'	1:AA:546:G:H5'	2.00	0.61
1:AA:773:G:C2	1:AA:774:G:C8	2.89	0.61
1:AA:1195:C:C4	1:AA:1197:G:N7	2.68	0.61
2:AB:98:LEU:HB2	2:AB:101:MET:HE3	1.81	0.61
6:AF:98:LEU:N	6:AF:98:LEU:CD1	2.60	0.61
7:AG:124:LEU:O	7:AG:127:ALA:HB3	2.01	0.61
10:AJ:91:PRO:O	10:AJ:92:THR:C	2.43	0.61
21:AU:5:ASP:C	21:AU:7:ARG:N	2.56	0.61
24:AY:70:ILE:O	24:AY:90:PRO:HG3	1.99	0.61
24:AY:72:THR:CG2	24:AY:90:PRO:HD3	2.27	0.61
24:AY:101:ARG:NH1	24:AY:390:ILE:HG23	2.15	0.61
24:AY:281:PRO:C	24:AY:282:ARG:HD2	2.24	0.61
26:B1:44:PRO:CG	26:B1:46:LEU:HD23	2.30	0.61
26:B1:44:PRO:HG2	26:B1:46:LEU:HD23	1.83	0.61
30:B5:25:LEU:HB3	54:BW:23:LEU:HD13	1.80	0.61
35:BA:336:C:H4'	56:BY:7:VAL:HG21	1.81	0.61
35:BA:482:A:H4'	56:BY:47:LYS:HG2	1.83	0.61
35:BA:886:C:C2'	35:BA:887:A:O5'	2.47	0.61
35:BA:1573:G:H3'	35:BA:1574:C:H6	1.66	0.61
35:BA:1996:C:H6	35:BA:1996:C:OP1	1.84	0.61
35:BA:2244:U:H1'	35:BA:2434:A:C5	2.36	0.61
35:BA:2246:G:O2'	35:BA:2247:A:H5'	2.01	0.61
35:BA:2656:U:C2'	35:BA:2657:A:H5''	2.31	0.61
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.34	0.61
37:BC:185:LEU:O	37:BC:189:ILE:HG13	2.01	0.61
39:BE:46:ALA:O	39:BE:47:VAL:HG23	2.01	0.61
39:BE:62:PRO:C	39:BE:64:LYS:H	2.09	0.61
41:BG:93:THR:O	41:BG:94:LEU:HD23	2.01	0.61
51:BT:42:ILE:O	51:BT:42:ILE:HG13	1.99	0.61
51:BT:72:VAL:HG12	51:BT:73:GLU:N	2.15	0.61
52:BU:66:ASN:C	52:BU:66:ASN:HD22	2.08	0.61
53:BV:78:LYS:O	53:BV:79:VAL:HG22	2.00	0.61
54:BW:88:ARG:HG2	54:BW:88:ARG:NH1	2.14	0.61
1:AA:229:U:OP1	16:AP:59:TRP:HH2	1.83	0.61
1:AA:274:A:O2'	1:AA:275:G:O4'	2.18	0.61
1:AA:394:G:H2'	1:AA:395:C:C6	2.35	0.61
1:AA:619:U:O2'	4:AD:133:VAL:HG13	2.00	0.61
1:AA:737:A:H2'	1:AA:738:C:H6	1.62	0.61
1:AA:859:A:H2'	1:AA:860:A:O4'	2.01	0.61
2:AB:106:LYS:HD3	2:AB:106:LYS:N	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:54:ARG:O	3:AC:55:VAL:CG2	2.43	0.61
4:AD:148:VAL:CG2	4:AD:181:MET:HB3	2.30	0.61
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.69	0.61
10:AJ:43:ARG:HB2	10:AJ:67:THR:CG2	2.28	0.61
13:AM:47:ASP:O	13:AM:48:LEU:HD23	2.00	0.61
13:AM:53:VAL:O	13:AM:56:LEU:HB3	2.00	0.61
24:AY:19:ILE:O	24:AY:19:ILE:HG13	2.00	0.61
24:AY:76:GLN:HB2	24:AY:348:PHE:HB3	1.81	0.61
24:AY:327:LYS:NZ	24:AY:344:ASP:HB3	2.14	0.61
24:AY:421:GLU:HA	24:AY:529:HIS:CE1	2.36	0.61
35:BA:391:G:O2'	35:BA:392:C:H5'	2.01	0.61
35:BA:583:G:P	52:BU:10:ARG:HH11	2.24	0.61
35:BA:1257:C:O2'	40:BF:84:VAL:N	2.34	0.61
35:BA:1287:A:O4'	49:BR:104:ARG:NH2	2.33	0.61
35:BA:2581:G:N2	35:BA:2610:C:H2'	2.16	0.61
36:BB:66:A:N6	36:BB:108:U:C6	2.69	0.61
37:BC:65:PRO:HG2	37:BC:187:ASP:O	1.99	0.61
39:BE:38:THR:HG22	39:BE:40:GLU:H	1.64	0.61
40:BF:7:TYR:HD2	40:BF:16:GLY:N	1.99	0.61
41:BG:82:LEU:HD21	41:BG:86:MET:CE	2.31	0.61
42:BH:40:GLU:O	42:BH:41:MET:HB3	2.00	0.61
52:BU:22:LYS:NZ	52:BU:29:SER:O	2.33	0.61
54:BW:68:ARG:O	54:BW:109:GLU:HA	2.00	0.61
57:BZ:104:PHE:HA	57:BZ:139:VAL:HB	1.82	0.61
1:AA:404:U:H5''	4:AD:122:ARG:HD3	1.83	0.61
1:AA:954:G:N2	1:AA:1228:C:N3	2.49	0.61
1:AA:1030(A):G:H2'	1:AA:1030(C):G:OP2	2.00	0.61
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.01	0.61
3:AC:63:ASN:HA	3:AC:98:ASN:O	2.01	0.61
3:AC:157:ILE:HB	3:AC:164:ARG:HH21	1.64	0.61
7:AG:29:LYS:HE2	7:AG:102:ARG:CA	2.22	0.61
11:AK:28:THR:HG22	11:AK:29:ILE:H	1.66	0.61
17:AQ:29:HIS:HB3	17:AQ:33:GLY:N	2.16	0.61
24:AY:259:ALA:C	24:AY:261:GLY:N	2.57	0.61
24:AY:272:LEU:O	24:AY:276:ALA:HB2	2.01	0.61
24:AY:303:ILE:HG13	24:AY:375:ILE:HD12	1.83	0.61
24:AY:344:ASP:O	24:AY:344:ASP:CG	2.43	0.61
24:AY:416:LEU:HD13	24:AY:427:VAL:CG1	2.30	0.61
27:B2:34:GLU:O	27:B2:38:GLN:HG2	2.00	0.61
28:B3:16:PRO:HB3	28:B3:18:ASP:OD1	2.01	0.61
28:B3:22:ALA:O	28:B3:25:ALA:HB3	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(H):G:O2'	35:BA:271(I):G:H8	1.83	0.61
35:BA:271(T):C:H2'	35:BA:271(U):G:C8	2.35	0.61
35:BA:523:C:O2'	35:BA:524:U:H5'	2.01	0.61
35:BA:528:A:H2	35:BA:2043:C:C4'	2.10	0.61
35:BA:615:G:OP2	40:BF:40:GLN:HG3	2.00	0.61
35:BA:833:U:H2'	35:BA:834:C:H6	1.65	0.61
35:BA:1029:A:O2'	35:BA:1030:G:H5'	2.00	0.61
35:BA:1030:G:C6	35:BA:1125:G:N2	2.69	0.61
35:BA:1089:G:N2	35:BA:1102:C:N3	2.48	0.61
35:BA:1919:A:C3'	35:BA:1920:C:H5''	2.28	0.61
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.82	0.61
35:BA:2049:G:H1'	39:BE:113:PHE:HZ	1.66	0.61
35:BA:2306:C:H5	35:BA:2307:G:O2'	1.83	0.61
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.35	0.61
35:BA:2460:U:C2'	35:BA:2461:C:H5'	2.31	0.61
35:BA:2519:U:C4	35:BA:2542:A:C2	2.88	0.61
35:BA:2692:C:H2'	35:BA:2693:A:H8	1.65	0.61
35:BA:2808:U:H5'	35:BA:2891:G:O6	2.01	0.61
35:BA:2821:A:H2'	35:BA:2822:G:C8	2.36	0.61
36:BB:115:G:C4	36:BB:116:G:C8	2.89	0.61
37:BC:25:ALA:HA	37:BC:222:VAL:HG11	1.81	0.61
37:BC:64:LEU:HD11	37:BC:174:PRO:O	2.01	0.61
37:BC:141:LYS:HZ3	37:BC:164:ARG:HH21	1.47	0.61
46:BO:62:VAL:HA	46:BO:84:ALA:HB2	1.82	0.61
47:BP:50:ARG:CG	47:BP:51:PHE:N	2.61	0.61
48:BQ:141:GLN:HE22	57:BZ:72:ARG:C	2.07	0.61
51:BT:80:SER:OG	51:BT:81:PRO:HD3	2.00	0.61
1:AA:675:A:O2'	1:AA:676:A:H5'	2.00	0.61
1:AA:980:C:H5	1:AA:981:U:O2	1.84	0.61
2:AB:238:LEU:O	2:AB:238:LEU:HG	2.00	0.61
3:AC:17:ASP:O	3:AC:54:ARG:NH2	2.34	0.61
3:AC:35:GLU:OE2	3:AC:97:LYS:NZ	2.23	0.61
5:AE:39:GLY:O	5:AE:69:VAL:HG23	2.01	0.61
8:AH:109:ILE:HG23	8:AH:137:VAL:O	2.00	0.61
8:AH:119:LEU:HB3	8:AH:123:GLU:HB3	1.83	0.61
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.16	0.61
15:AO:36:ILE:HD11	15:AO:59:MET:HE2	1.83	0.61
17:AQ:91:ARG:HH11	17:AQ:91:ARG:HB3	1.66	0.61
18:AR:25:THR:O	18:AR:26:LEU:HG	2.01	0.61
21:AU:9:ARG:HH22	21:AU:23:PRO:HD2	1.65	0.61
24:AY:106:VAL:CG2	24:AY:107:ASP:H	2.13	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:421:GLU:HA	24:AY:529:HIS:HE1	1.66	0.61
33:B8:8:LYS:NZ	35:BA:244:A:OP2	2.33	0.61
35:BA:583:G:P	52:BU:10:ARG:NH1	2.73	0.61
35:BA:673:C:H2'	35:BA:674:G:H5'	1.82	0.61
35:BA:677:A:H2'	35:BA:678:C:H6	1.64	0.61
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.36	0.61
35:BA:2012:G:C5'	54:BW:96:ILE:HD11	2.30	0.61
35:BA:2461:C:H2'	35:BA:2462:U:C6	2.36	0.61
35:BA:2887:U:O2'	35:BA:2888:C:H5'	2.01	0.61
36:BB:68:C:H2'	36:BB:69:G:O4'	2.01	0.61
37:BC:45:ALA:O	37:BC:47:LEU:HD12	2.01	0.61
37:BC:46:LYS:HG3	37:BC:46:LYS:O	2.01	0.61
37:BC:103:ILE:HG23	37:BC:107:TRP:NE1	2.15	0.61
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.30	0.61
39:BE:28:ALA:CB	39:BE:182:LEU:HD22	2.30	0.61
39:BE:48:GLN:HE22	39:BE:64:LYS:NZ	1.99	0.61
39:BE:138:PRO:HD2	39:BE:139:GLY:H	1.65	0.61
39:BE:198:VAL:CG1	39:BE:199:ARG:N	2.64	0.61
40:BF:70:THR:C	40:BF:72:ARG:N	2.59	0.61
45:BN:16:ILE:HG23	45:BN:54:VAL:HG22	1.82	0.61
45:BN:44:PRO:HG3	52:BU:60:LEU:HD21	1.83	0.61
46:BO:39:ILE:HG12	46:BO:60:ALA:O	2.01	0.61
48:BQ:64:ILE:CG2	48:BQ:65:PHE:N	2.64	0.61
49:BR:48:VAL:C	49:BR:51:LEU:HB2	2.26	0.61
55:BX:78:LYS:O	55:BX:78:LYS:HG3	2.00	0.61
57:BZ:10:ARG:NE	57:BZ:36:LYS:HB2	2.14	0.61
1:AA:253:U:O2	1:AA:275:G:H1'	2.01	0.61
1:AA:429:U:OP2	4:AD:36:ARG:NH1	2.34	0.61
1:AA:697:U:O4'	1:AA:786:G:H4'	2.00	0.61
1:AA:1298:C:N4	7:AG:114:ARG:HB3	2.15	0.61
3:AC:23:TYR:C	3:AC:23:TYR:CD1	2.79	0.61
4:AD:36:ARG:N	4:AD:37:PRO:HD3	2.15	0.61
8:AH:86:ILE:CG1	8:AH:135:CYS:HA	2.27	0.61
16:AP:73:LEU:O	16:AP:76:GLN:HB3	2.00	0.61
17:AQ:10:VAL:HG11	17:AQ:53:LEU:HA	1.83	0.61
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.01	0.61
22:AV:7:G:H2'	22:AV:49:G:OP2	2.01	0.61
22:AV:35:A:O2'	22:AV:36:U:H5'	2.01	0.61
24:AY:70:ILE:HG23	24:AY:95:PHE:CE1	2.35	0.61
24:AY:149:ARG:O	24:AY:150:ASP:HB2	2.00	0.61
24:AY:223:LEU:O	24:AY:227:LEU:HG	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:303:ILE:O	24:AY:305:ALA:N	2.34	0.61
24:AY:416:LEU:O	24:AY:419:LEU:N	2.33	0.61
35:BA:111:A:H2'	35:BA:112:U:C6	2.35	0.61
35:BA:363(E):U:C5	35:BA:363(F):A:C2	2.89	0.61
35:BA:444:C:H2'	35:BA:445:C:C5	2.36	0.61
35:BA:961:C:C5	35:BA:2031:A:C2	2.89	0.61
35:BA:1087:G:H8	35:BA:1088:A:H4'	1.65	0.61
35:BA:1418:G:O6	35:BA:1578:U:H5''	2.00	0.61
35:BA:1695:G:H2'	35:BA:1696:G:C5'	2.27	0.61
35:BA:2027:G:O2'	35:BA:2028:U:C5'	2.49	0.61
35:BA:2484:G:O2'	48:BQ:124:LYS:HB3	2.00	0.61
36:BB:111:G:C2'	36:BB:112:U:H5'	2.30	0.61
37:BC:166:ASP:O	37:BC:168:THR:N	2.26	0.61
40:BF:110:LEU:C	40:BF:110:LEU:HD13	2.25	0.61
45:BN:18:ALA:HB1	45:BN:21:LYS:CB	2.29	0.61
52:BU:92:ARG:O	52:BU:95:LEU:N	2.25	0.61
53:BV:19:LYS:HE2	53:BV:19:LYS:HA	1.82	0.61
53:BV:57:VAL:HG23	53:BV:98:GLU:O	2.01	0.61
57:BZ:99:TYR:CE1	57:BZ:125:LEU:HD12	2.33	0.61
57:BZ:151:HIS:HA	57:BZ:171:ILE:CG1	2.30	0.61
1:AA:505:G:OP2	1:AA:535:A:H5'	2.01	0.60
1:AA:881:G:C2'	1:AA:882:C:H5'	2.31	0.60
1:AA:919:A:O2'	1:AA:1080:A:N1	2.30	0.60
1:AA:1009:G:H2'	1:AA:1010:G:H8	1.65	0.60
1:AA:1047:G:C5'	14:AN:4:LYS:HE2	2.28	0.60
1:AA:1319:A:H5'	1:AA:1320:C:OP1	2.01	0.60
1:AA:1494:G:C2'	1:AA:1495:U:H5'	2.31	0.60
9:AI:114:TYR:HE2	10:AJ:59:SER:CA	2.14	0.60
19:AS:44:MET:O	19:AS:62:ILE:HG12	2.01	0.60
19:AS:51:VAL:HB	19:AS:58:VAL:HG21	1.80	0.60
20:AT:79:ARG:O	20:AT:83:ARG:HG3	2.00	0.60
24:AY:68:ILE:O	24:AY:68:ILE:HG13	2.00	0.60
24:AY:221:GLU:O	24:AY:222:ASP:C	2.42	0.60
25:B0:22:GLY:N	25:B0:39:ARG:O	2.30	0.60
29:B4:6:HIS:HA	41:BG:67:LYS:CE	2.31	0.60
30:B5:41:PRO:HG2	30:B5:44:THR:HB	1.83	0.60
35:BA:739:G:N2	35:BA:740:U:O4	2.31	0.60
35:BA:1003:G:N3	35:BA:1010:A:H2	1.98	0.60
35:BA:1542:A:H5'	35:BA:1543:C:OP2	2.01	0.60
35:BA:1789:A:OP1	38:BD:222:ARG:N	2.32	0.60
35:BA:2097:C:C2	35:BA:2193:G:N1	2.68	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2185:C:H2'	35:BA:2186:G:H5'	1.82	0.60
35:BA:2801:A:C8	35:BA:2894:G:OP1	2.48	0.60
38:BD:215:LEU:HB2	38:BD:217:ARG:HG3	1.83	0.60
39:BE:13:ARG:HB3	39:BE:22:PRO:CA	2.26	0.60
39:BE:25:VAL:HA	39:BE:182:LEU:O	2.01	0.60
39:BE:109:LYS:O	39:BE:111:ARG:NE	2.34	0.60
39:BE:127:ASP:HA	39:BE:135:HIS:CD2	2.36	0.60
41:BG:57:ALA:HA	41:BG:90:LEU:HD21	1.83	0.60
42:BH:94:TYR:HE1	42:BH:108:GLY:HA3	1.66	0.60
45:BN:48:MET:H	45:BN:48:MET:CE	2.14	0.60
45:BN:60:ILE:HD13	45:BN:99:LEU:HD23	1.83	0.60
48:BQ:4:PRO:HG3	48:BQ:7:MET:HE2	1.83	0.60
49:BR:76:VAL:HG22	49:BR:80:PHE:CD2	2.35	0.60
56:BY:39:VAL:HG12	56:BY:40:GLU:N	2.16	0.60
1:AA:265:G:H2'	1:AA:266:G:H5''	1.83	0.60
1:AA:528:C:H4'	1:AA:535:A:C6	2.36	0.60
1:AA:790:A:H2'	1:AA:791:G:C8	2.35	0.60
2:AB:117:GLU:O	2:AB:120:ALA:HB3	2.01	0.60
2:AB:221:LEU:O	2:AB:222:ILE:C	2.42	0.60
6:AF:16:GLN:HA	6:AF:19:LEU:HB3	1.81	0.60
6:AF:87:ARG:HG2	6:AF:87:ARG:NH1	1.99	0.60
8:AH:20:TYR:CE1	8:AH:76:PRO:HG2	2.36	0.60
8:AH:35:ILE:O	8:AH:36:LEU:C	2.43	0.60
10:AJ:27:ALA:HA	10:AJ:30:SER:HB3	1.83	0.60
15:AO:31:LEU:O	15:AO:35:ARG:HG3	2.01	0.60
15:AO:58:MET:O	15:AO:61:GLY:N	2.33	0.60
24:AY:9:GLU:OE1	24:AY:360:TYR:OH	2.17	0.60
24:AY:327:LYS:HD3	24:AY:357:GLU:HG3	1.82	0.60
24:AY:359:ALA:HB1	24:AY:363:ASP:HB3	1.83	0.60
26:B1:46:LEU:HA	26:B1:63:ALA:HA	1.82	0.60
27:B2:55:ARG:O	27:B2:58:ALA:HB3	2.01	0.60
33:B8:10:ALA:O	33:B8:13:ARG:N	2.27	0.60
33:B8:49:VAL:O	33:B8:50:LEU:HB2	2.00	0.60
35:BA:67:U:H2'	35:BA:68:G:H8	1.65	0.60
35:BA:80:G:O2'	35:BA:81:G:H5'	2.00	0.60
35:BA:733:G:N2	35:BA:734:A:N7	2.48	0.60
35:BA:833:U:C5'	47:BP:48:PRO:HG3	2.20	0.60
35:BA:1041:G:C2	35:BA:1042:G:C8	2.89	0.60
35:BA:1710:C:O2	35:BA:1749:A:C2	2.54	0.60
35:BA:1975:G:C6	35:BA:1976:U:C4	2.88	0.60
35:BA:2049:G:O2'	35:BA:2050:C:H5'	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2147:G:C2'	35:BA:2148:G:H5'	2.30	0.60
35:BA:2319:G:OP2	35:BA:2319:G:H4'	2.01	0.60
35:BA:2685:G:H4'	46:BO:67:LYS:HZ2	1.66	0.60
38:BD:87:ASN:HD22	38:BD:88:ARG:CZ	2.14	0.60
38:BD:160:GLY:H	38:BD:196:VAL:HG12	1.65	0.60
39:BE:47:VAL:HG12	39:BE:49:LEU:HD22	1.82	0.60
40:BF:156:LEU:HD23	40:BF:167:ALA:CB	2.31	0.60
48:BQ:63:LYS:CG	57:BZ:175:VAL:HG21	2.29	0.60
49:BR:99:LYS:HA	49:BR:112:ALA:HA	1.83	0.60
53:BV:40:LEU:HA	53:BV:45:THR:HB	1.84	0.60
1:AA:507:C:OP1	1:AA:508:C:H3'	2.01	0.60
1:AA:1168:A:OP1	1:AA:1168:A:H8	1.85	0.60
1:AA:1500:A:OP1	1:AA:1508:G:OP1	2.20	0.60
5:AE:30:ALA:N	5:AE:46:GLY:O	2.32	0.60
14:AN:14:PRO:O	14:AN:15:LYS:O	2.19	0.60
14:AN:15:LYS:O	14:AN:16:PHE:O	2.19	0.60
15:AO:49:ASP:OD2	15:AO:52:SER:CB	2.47	0.60
16:AP:35:LYS:O	16:AP:36:ILE:HG23	2.02	0.60
22:AV:48:C:O2'	22:AV:59:A:H1'	2.01	0.60
24:AY:473:TRP:N	24:AY:524:HIS:O	2.34	0.60
29:B4:35:VAL:CG1	29:B4:36:CYS:N	2.64	0.60
35:BA:30:G:H2'	35:BA:31:C:H6	1.62	0.60
35:BA:90:U:H2'	35:BA:90:U:O2	2.02	0.60
35:BA:916:G:C2'	35:BA:917:A:H5''	2.31	0.60
35:BA:962:G:C2	35:BA:963:U:C2	2.89	0.60
35:BA:972:G:H3'	35:BA:973:A:H2'	1.83	0.60
35:BA:1934:C:O2'	35:BA:1935:G:H5'	2.01	0.60
35:BA:2109:U:H1'	35:BA:2181:G:C2	2.36	0.60
35:BA:2199:A:H2'	35:BA:2199:A:N3	2.16	0.60
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.31	0.60
35:BA:2268:A:C2'	35:BA:2269:A:H5'	2.32	0.60
35:BA:2361:A:H2'	35:BA:2362:G:C8	2.33	0.60
35:BA:2529:G:OP2	35:BA:2530:A:H8	1.83	0.60
35:BA:2875:C:H4'	51:BT:5:ALA:HB2	1.83	0.60
38:BD:182:LEU:H	38:BD:272:ALA:CB	2.15	0.60
38:BD:208:LYS:O	38:BD:210:GLY:O	2.20	0.60
38:BD:268:ARG:H	38:BD:270:ILE:HD12	1.66	0.60
40:BF:110:LEU:HD22	40:BF:183:VAL:HG12	1.83	0.60
41:BG:97:ASP:H	41:BG:100:TRP:HD1	1.47	0.60
42:BH:43:VAL:HG11	42:BH:52:VAL:CG2	2.24	0.60
49:BR:38:VAL:HG23	49:BR:110:PRO:HB2	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:101:LEU:HD12	50:BS:102:ALA:O	2.02	0.60
51:BT:27:THR:O	51:BT:28:VAL:HB	2.00	0.60
51:BT:72:VAL:HG12	51:BT:73:GLU:H	1.66	0.60
53:BV:93:GLU:O	53:BV:94:LEU:HD23	2.01	0.60
1:AA:495:A:H1'	1:AA:496:A:C8	2.36	0.60
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.84	0.60
2:AB:102:LEU:CD1	2:AB:102:LEU:H	2.15	0.60
7:AG:39:ALA:O	7:AG:42:ILE:HB	2.01	0.60
15:AO:49:ASP:CG	15:AO:52:SER:HB3	2.26	0.60
22:AV:17(A):U:H1'	22:AV:18:G:O5'	2.01	0.60
24:AY:13:ARG:HD2	24:AY:363:ASP:OD2	2.01	0.60
24:AY:72:THR:O	24:AY:74:VAL:N	2.34	0.60
24:AY:115:ALA:HB1	24:AY:148:ILE:HB	1.83	0.60
24:AY:255:PHE:CD1	24:AY:268:MET:SD	2.95	0.60
24:AY:326:GLU:HA	24:AY:357:GLU:O	2.02	0.60
34:B9:16:VAL:O	34:B9:17:ILE:O	2.18	0.60
35:BA:445:C:OP1	52:BU:3:ARG:N	2.35	0.60
35:BA:685:A:C4	35:BA:689:A:N6	2.69	0.60
35:BA:1335:U:H2'	35:BA:1336:A:C8	2.37	0.60
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.37	0.60
35:BA:1491:G:N1	35:BA:1500:G:C2	2.69	0.60
35:BA:1569:A:C2	35:BA:1570:A:C4	2.88	0.60
35:BA:2598:A:N7	35:BA:2599:G:H1'	2.16	0.60
35:BA:2807:G:H2'	35:BA:2808:U:C5'	2.31	0.60
37:BC:4:GLY:O	37:BC:7:TYR:N	2.33	0.60
37:BC:167:LYS:O	37:BC:168:THR:HG23	2.00	0.60
39:BE:167:VAL:HG12	39:BE:189:PRO:HD2	1.83	0.60
41:BG:25:TYR:CZ	41:BG:32:PRO:HD3	2.37	0.60
42:BH:132:ARG:O	42:BH:133:VAL:CG2	2.49	0.60
48:BQ:32:TYR:HA	48:BQ:133:ARG:HA	1.82	0.60
48:BQ:64:ILE:HG22	48:BQ:65:PHE:N	2.16	0.60
50:BS:14:VAL:O	50:BS:15:ARG:C	2.44	0.60
50:BS:102:ALA:C	50:BS:103:GLU:OE1	2.45	0.60
52:BU:19:LYS:C	52:BU:21:ALA:N	2.59	0.60
1:AA:253:U:N3	1:AA:274:A:H2	2.00	0.60
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.02	0.60
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.30	0.60
1:AA:1351:U:C2	1:AA:1352:C:C5	2.89	0.60
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.82	0.60
6:AF:22:GLU:OE2	6:AF:82:ARG:NE	2.35	0.60
8:AH:1:MET:HE1	8:AH:3:THR:HG23	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:89:ASN:O	9:AI:92:TYR:HB2	2.02	0.60
10:AJ:38:ILE:HG13	10:AJ:40:LEU:CD2	2.31	0.60
17:AQ:3:LYS:O	17:AQ:4:LYS:O	2.19	0.60
18:AR:53:ARG:C	18:AR:55:ARG:H	2.09	0.60
22:AV:36:U:C2'	22:AV:37:A:H5'	2.31	0.60
24:AY:346:LEU:O	24:AY:348:PHE:CZ	2.54	0.60
25:B0:41:ARG:HB3	35:BA:2330:G:H1'	1.83	0.60
28:B3:13:ILE:HD11	35:BA:989:G:C6	2.37	0.60
35:BA:66:C:H2'	35:BA:67:U:O4'	2.01	0.60
35:BA:696:G:H2'	35:BA:697:C:C6	2.37	0.60
35:BA:711:G:N2	35:BA:721:C:O2'	2.34	0.60
35:BA:824:A:H1'	35:BA:2358:G:N7	2.17	0.60
35:BA:922:U:H2'	35:BA:923:C:C6	2.37	0.60
35:BA:1019:U:H1'	35:BA:1144:G:H22	1.65	0.60
35:BA:1491:G:O2'	35:BA:1492:G:H5'	2.02	0.60
35:BA:1653:G:H5''	35:BA:2822:G:N1	2.17	0.60
35:BA:1803:A:H2'	35:BA:1804:C:O4'	2.02	0.60
35:BA:2553:G:C2	35:BA:2583:G:H1'	2.36	0.60
36:BB:68:C:C2	36:BB:69:G:C8	2.89	0.60
37:BC:49:ILE:CG2	37:BC:208:PHE:HE1	2.14	0.60
37:BC:59:ARG:NH1	37:BC:164:ARG:NH1	2.49	0.60
38:BD:95:LEU:HD13	38:BD:103:ARG:O	2.00	0.60
38:BD:111:LEU:CD1	38:BD:115:GLN:HE21	2.14	0.60
40:BF:82:ILE:O	40:BF:83:PHE:CB	2.49	0.60
45:BN:23:LEU:HB3	45:BN:60:ILE:CG2	2.26	0.60
46:BO:2:ILE:CB	46:BO:33:ALA:HB3	2.20	0.60
47:BP:16:ARG:CD	47:BP:18:ARG:H	2.09	0.60
48:BQ:18:LYS:HB2	48:BQ:18:LYS:NZ	2.16	0.60
55:BX:55:ASN:HB2	55:BX:80:ILE:HG12	1.81	0.60
57:BZ:166:SER:HB2	57:BZ:168:GLU:HB3	1.83	0.60
1:AA:19:C:O2'	1:AA:20:U:H5'	2.01	0.60
1:AA:169:C:H2'	1:AA:170:U:H5'	1.83	0.60
1:AA:225:C:H2'	1:AA:226:G:H8	1.66	0.60
1:AA:285:G:O2'	1:AA:286:G:H5'	2.01	0.60
1:AA:369:C:H6	1:AA:369:C:O5'	1.84	0.60
1:AA:405:U:C3'	1:AA:406:G:H5'	2.23	0.60
1:AA:1060:C:P	14:AN:45:ARG:HH22	2.25	0.60
1:AA:1177:G:O2'	1:AA:1178:G:H5'	2.01	0.60
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.66	0.60
2:AB:74:LYS:HB2	2:AB:74:LYS:NZ	2.15	0.60
3:AC:142:MET:O	3:AC:144:SER:N	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:200:GLU:O	4:AD:204:ILE:HG13	2.01	0.60
7:AG:13:GLN:O	7:AG:14:PRO:C	2.45	0.60
8:AH:9:MET:SD	8:AH:36:LEU:HD21	2.42	0.60
9:AI:112:LYS:C	9:AI:112:LYS:CD	2.75	0.60
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.01	0.60
13:AM:41:PRO:O	13:AM:42:ALA:C	2.45	0.60
24:AY:189:GLU:HB2	24:AY:206:ILE:CG2	2.31	0.60
24:AY:231:LEU:O	24:AY:231:LEU:HD12	2.01	0.60
24:AY:444:LEU:O	24:AY:447:ASP:N	2.34	0.60
25:B0:45:PHE:HE1	25:B0:77:ARG:HE	1.49	0.60
28:B3:7:LYS:HA	28:B3:34:GLU:HA	1.82	0.60
30:B5:4:HIS:CG	35:BA:2577:A:HO2'	2.19	0.60
34:B9:26:ILE:CG2	34:B9:27:CYS:H	2.14	0.60
35:BA:204:A:OP1	35:BA:204:A:H8	1.84	0.60
35:BA:730:C:H2'	35:BA:731:C:H6	1.64	0.60
35:BA:1061:U:C5'	35:BA:1070:A:H1'	2.31	0.60
35:BA:1205:U:H4'	35:BA:1206:G:OP2	2.00	0.60
35:BA:1222:C:C2'	35:BA:1223:G:H5''	2.28	0.60
35:BA:1317:A:C2	35:BA:1336:A:C2	2.90	0.60
35:BA:1494:A:O2'	35:BA:1495:A:H5''	2.01	0.60
35:BA:1528(A):A:C8	35:BA:1529:G:C8	2.90	0.60
35:BA:1814:G:C4'	38:BD:51:VAL:HG21	2.31	0.60
35:BA:2268:A:O2'	35:BA:2269:A:C5'	2.48	0.60
35:BA:2358:G:H2'	35:BA:2359:C:H6	1.67	0.60
35:BA:2557:G:H2'	35:BA:2558:C:C6	2.36	0.60
37:BC:59:ARG:NE	37:BC:164:ARG:HD2	2.17	0.60
38:BD:147:LEU:O	38:BD:189:CYS:SG	2.58	0.60
46:BO:43:VAL:HG21	46:BO:52:VAL:CG1	2.31	0.60
48:BQ:53:ALA:C	48:BQ:56:ARG:HB2	2.26	0.60
50:BS:30:ARG:HH22	50:BS:62:LYS:CB	2.12	0.60
53:BV:2:PHE:HB3	53:BV:41:GLY:C	2.27	0.60
53:BV:5:VAL:CG2	53:BV:35:LEU:HB3	2.30	0.60
1:AA:668:G:O4'	15:AO:49:ASP:HB2	2.02	0.60
1:AA:706:A:H1'	11:AK:29:ILE:HD11	1.83	0.60
1:AA:751:U:H3'	1:AA:752:G:C8	2.36	0.60
1:AA:764:C:H2'	1:AA:765:G:O4'	2.01	0.60
1:AA:1339:A:H2'	1:AA:1340:A:O4'	2.02	0.60
1:AA:1374:A:O2'	1:AA:1375:A:H5'	2.02	0.60
1:AA:1491:G:H3'	1:AA:1492:A:C8	2.35	0.60
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.80	0.60
22:AV:23:C:O5'	22:AV:23:C:H6	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:33:MET:SD	55:BX:5:TYR:HB3	2.41	0.60
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.78	0.60
30:B5:25:LEU:HD12	54:BW:19:LEU:O	2.01	0.60
35:BA:221:A:O2'	35:BA:222:A:OP2	2.18	0.60
35:BA:977:G:O2'	35:BA:978:G:H5'	2.02	0.60
35:BA:1068:G:OP2	44:BK:22:UNK:N	2.35	0.60
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.02	0.60
35:BA:1754:C:C5	35:BA:1755:A:N7	2.69	0.60
35:BA:2070:G:C2	35:BA:2071:A:C4	2.90	0.60
35:BA:2469:A:H3'	35:BA:2470:G:O4'	2.02	0.60
35:BA:2579:C:C4'	39:BE:134:ILE:HG21	2.32	0.60
35:BA:2689:U:H4'	35:BA:2690:C:OP2	2.01	0.60
36:BB:30:C:H2'	36:BB:31:C:O4'	2.01	0.60
38:BD:43:ARG:HD2	38:BD:49:ILE:HD13	1.84	0.60
38:BD:183:ARG:NH2	38:BD:269:PHE:HD2	2.00	0.60
38:BD:183:ARG:HB2	38:BD:270:ILE:HG22	1.84	0.60
38:BD:213:ARG:HH11	38:BD:219:PRO:HD3	1.62	0.60
38:BD:265:PRO:O	38:BD:267:SER:N	2.35	0.60
40:BF:28:ILE:H	40:BF:28:ILE:CD1	2.14	0.60
40:BF:154:VAL:HG13	40:BF:191:ARG:C	2.26	0.60
42:BH:12:PRO:HD2	42:BH:15:VAL:HG11	1.84	0.60
51:BT:59:THR:OG1	51:BT:78:LEU:HD12	2.02	0.60
52:BU:104:GLN:C	52:BU:106:PHE:H	2.10	0.60
53:BV:5:VAL:HG23	53:BV:37:VAL:O	2.01	0.60
1:AA:141:A:C4'	1:AA:182:U:H1'	2.32	0.60
1:AA:247:G:OP2	17:AQ:99:SER:HB2	2.01	0.60
1:AA:670:G:O2'	1:AA:671:G:H5'	2.01	0.60
1:AA:920:U:C1'	1:AA:1080:A:C2	2.84	0.60
1:AA:1423:G:H5''	46:BO:49:ARG:NH1	2.16	0.60
5:AE:136:MET:HA	5:AE:139:LEU:HD12	1.84	0.60
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.66	0.60
7:AG:19:GLY:O	7:AG:20:ASP:C	2.44	0.60
11:AK:32:ILE:HD13	11:AK:72:ALA:HB2	1.84	0.60
11:AK:91:ARG:HG3	11:AK:91:ARG:NH1	2.13	0.60
22:AV:42:G:H2'	22:AV:43:A:O4'	2.02	0.60
24:AY:305:ALA:HB2	24:AY:423:GLY:H	1.65	0.60
27:B2:2:LYS:O	27:B2:5:GLU:HG2	2.00	0.60
27:B2:35:LEU:CD1	27:B2:50:ILE:HG13	2.23	0.60
30:B5:28:PRO:CG	54:BW:35:ILE:HG23	2.32	0.60
32:B7:32:LYS:HE2	35:BA:180:G:OP2	2.01	0.60
33:B8:21:LYS:HD2	35:BA:651:G:OP1	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:7:VAL:O	35:BA:1031:G:O2'	2.14	0.60
35:BA:483:A:H4'	56:BY:48:ALA:O	2.01	0.60
35:BA:588:U:O4	35:BA:670:A:H1'	2.01	0.60
35:BA:824:A:H2'	35:BA:825:C:H6	1.66	0.60
35:BA:1050:A:H1'	35:BA:2751:G:N2	2.16	0.60
35:BA:1919:A:H2'	35:BA:1920:C:C5'	2.21	0.60
35:BA:2300:G:H2'	35:BA:2301:C:C6	2.37	0.60
35:BA:2626:C:H2'	35:BA:2627:G:H8	1.67	0.60
37:BC:59:ARG:NH2	37:BC:142:ALA:HB2	2.17	0.60
38:BD:80:ALA:CB	38:BD:96:HIS:NE2	2.65	0.60
39:BE:51:PHE:HD1	39:BE:52:LEU:N	1.96	0.60
39:BE:195:LEU:O	39:BE:196:VAL:HG13	2.01	0.60
40:BF:109:GLY:O	40:BF:112:MET:HB3	2.02	0.60
41:BG:52:ILE:CG1	41:BG:53:LEU:H	2.07	0.60
42:BH:106:THR:CB	42:BH:112:PRO:HA	2.32	0.60
49:BR:24:GLN:HA	49:BR:27:SER:HB2	1.84	0.60
49:BR:96:ARG:HB2	49:BR:96:ARG:CZ	2.29	0.60
51:BT:32:TYR:O	51:BT:42:ILE:HA	2.00	0.60
51:BT:52:ILE:HG12	51:BT:61:PHE:HB3	1.84	0.60
52:BU:27:LEU:HA	52:BU:30:LYS:CG	2.32	0.60
57:BZ:120:ILE:CG1	57:BZ:172:ALA:HA	2.27	0.60
1:AA:245:C:O2'	1:AA:246:A:H5'	2.01	0.60
1:AA:359:U:H2'	1:AA:360:A:C8	2.35	0.60
1:AA:742:G:O2'	1:AA:743:U:H5'	2.02	0.60
1:AA:836:G:C6	1:AA:851:G:C6	2.90	0.60
1:AA:848:C:H2'	1:AA:849:C:H6	1.66	0.60
1:AA:1060:C:H5'	14:AN:45:ARG:HH21	1.66	0.60
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.33	0.60
1:AA:1480:G:C6	1:AA:1481:U:C4	2.89	0.60
3:AC:38:ARG:O	3:AC:39:ILE:C	2.43	0.60
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.64	0.60
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.62	0.60
8:AH:4:ASP:OD1	8:AH:6:ILE:HB	2.00	0.60
10:AJ:38:ILE:HG13	10:AJ:40:LEU:HD21	1.82	0.60
15:AO:3:ILE:HG12	15:AO:8:LYS:HE2	1.80	0.60
24:AY:135:THR:HG22	24:AY:136:PRO:CD	2.25	0.60
24:AY:281:PRO:HB3	24:AY:290:GLU:HA	1.83	0.60
24:AY:325:TYR:CE2	24:AY:357:GLU:OE2	2.54	0.60
26:B1:45:ASN:HB2	35:BA:397:G:H5''	1.83	0.60
26:B1:87:PRO:HG2	26:B1:88:LYS:N	2.17	0.60
35:BA:479:A:N3	35:BA:481:G:O4'	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:532:A:H5''	52:BU:28:ARG:NH2	2.15	0.60
35:BA:729:G:O6	38:BD:208:LYS:HB2	2.01	0.60
35:BA:955:C:C2'	35:BA:956:G:H5'	2.32	0.60
35:BA:1526:G:O2'	35:BA:1527:G:H5'	2.02	0.60
35:BA:2180:U:H2'	35:BA:2181:G:C8	2.36	0.60
35:BA:2801:A:O2'	35:BA:2895:U:H5'	2.01	0.60
35:BA:2845:G:H5''	51:BT:54:ARG:O	2.01	0.60
37:BC:41:VAL:HG12	37:BC:43:VAL:HG23	1.84	0.60
37:BC:47:LEU:CD1	37:BC:171:ILE:HD12	2.30	0.60
37:BC:100:ILE:HA	37:BC:127:MET:HE2	1.84	0.60
38:BD:33:LEU:HD23	38:BD:34:VAL:H	1.67	0.60
39:BE:9:VAL:O	39:BE:192:ASN:OD1	2.20	0.60
41:BG:42:GLY:CA	41:BG:90:LEU:H	2.10	0.60
42:BH:86:GLU:N	42:BH:86:GLU:OE1	2.34	0.60
47:BP:80:TYR:HA	47:BP:111:ARG:CB	2.32	0.60
49:BR:61:HIS:CE1	49:BR:65:LEU:HD22	2.36	0.60
50:BS:42:ASP:C	50:BS:44:LYS:N	2.54	0.60
51:BT:32:TYR:N	51:BT:32:TYR:HD1	1.99	0.60
54:BW:43:GLY:O	54:BW:45:TYR:N	2.35	0.60
55:BX:54:VAL:HG22	55:BX:81:VAL:HG12	1.84	0.60
56:BY:43:ASN:CB	56:BY:64:GLU:HA	2.30	0.60
1:AA:59:A:H3'	1:AA:331:G:H22	1.66	0.60
1:AA:507:C:OP2	1:AA:508:C:C2'	2.46	0.60
1:AA:570:G:O4'	1:AA:820:U:C2	2.55	0.60
1:AA:950:U:H2'	1:AA:951:G:H8	1.64	0.60
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.36	0.60
1:AA:1393:U:H2'	1:AA:1395:C:C5	2.32	0.60
2:AB:208:ILE:O	2:AB:209:ARG:C	2.45	0.60
2:AB:222:ILE:HD13	2:AB:222:ILE:H	1.67	0.60
3:AC:5:ILE:HG21	14:AN:58:LYS:NZ	2.17	0.60
5:AE:50:GLU:HA	5:AE:50:GLU:OE1	2.02	0.60
16:AP:3:LYS:HA	16:AP:65:GLN:H	1.66	0.60
24:AY:21:HIS:HA	24:AY:122:ARG:HB2	1.84	0.60
24:AY:79:TYR:CD1	24:AY:80:HIS:N	2.68	0.60
24:AY:208:LYS:O	24:AY:209:GLY:C	2.43	0.60
26:B1:48:LYS:HZ2	26:B1:60:PHE:C	2.09	0.60
30:B5:8:LYS:HG2	35:BA:2054:A:C2	2.37	0.60
31:B6:15:GLU:CD	31:B6:18:ARG:CZ	2.75	0.60
31:B6:33:LYS:O	31:B6:34:LEU:HB2	2.01	0.60
33:B8:30:ARG:HA	33:B8:30:ARG:HE	1.66	0.60
35:BA:438:G:H2'	35:BA:440:G:C8	2.37	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:879:G:N1	35:BA:898:C:N4	2.50	0.60
35:BA:1498:C:C2'	35:BA:1499:C:H5'	2.31	0.60
35:BA:1600:C:O5'	35:BA:1600:C:H6	1.85	0.60
35:BA:2052:G:O4'	39:BE:142:GLY:HA3	2.01	0.60
35:BA:2472:G:N2	35:BA:2478:A:H62	1.97	0.60
35:BA:2573:C:OP1	35:BA:2574:G:OP1	2.19	0.60
35:BA:2879:C:H4'	35:BA:2880:C:OP1	2.02	0.60
40:BF:132:VAL:HG22	40:BF:133:ASN:ND2	2.17	0.60
41:BG:125:PHE:HD2	41:BG:131:TYR:HB2	1.67	0.60
47:BP:92:GLU:HA	47:BP:123:LEU:CD1	2.32	0.60
50:BS:106:ARG:HD2	50:BS:107:GLU:N	2.17	0.60
52:BU:92:ARG:HD3	52:BU:94:ASN:CB	2.24	0.60
52:BU:115:ALA:O	52:BU:117:GLN:N	2.35	0.60
53:BV:39:LEU:HA	53:BV:47:VAL:HG11	1.84	0.60
53:BV:52:VAL:CG1	53:BV:55:ALA:HB3	2.29	0.60
1:AA:966:G:C2	1:AA:967:C:C2	2.90	0.59
1:AA:980:C:C5	1:AA:981:U:O2	2.55	0.59
1:AA:1309:G:O2'	1:AA:1310:G:H5'	2.02	0.59
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.01	0.59
1:AA:1395:C:H4'	1:AA:1401:G:H21	1.66	0.59
2:AB:54:THR:CG2	2:AB:201:ILE:HD11	2.19	0.59
2:AB:189:ASP:OD1	2:AB:189:ASP:C	2.44	0.59
2:AB:222:ILE:O	2:AB:226:ARG:HG3	2.02	0.59
4:AD:70:ILE:HG22	4:AD:71:SER:N	2.16	0.59
11:AK:94:ALA:O	11:AK:97:ALA:HB3	2.02	0.59
11:AK:96:ARG:O	11:AK:97:ALA:C	2.45	0.59
12:AL:37:CYS:SG	12:AL:81:SER:O	2.59	0.59
19:AS:63:THR:CG2	19:AS:66:MET:HG2	2.32	0.59
24:AY:13:ARG:HD3	24:AY:363:ASP:OD2	1.98	0.59
35:BA:640:C:N4	35:BA:641:C:H41	2.00	0.59
35:BA:654(I):C:H5''	35:BA:654(J):A:OP1	2.02	0.59
35:BA:762:U:H5'	35:BA:763:G:H21	1.66	0.59
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.36	0.59
35:BA:1598:C:H5'	55:BX:36:LYS:HD3	1.84	0.59
35:BA:2219:G:O2'	35:BA:2220:G:H5'	2.02	0.59
35:BA:2393:A:C2	35:BA:2394:C:H1'	2.37	0.59
35:BA:2653:U:H5''	35:BA:2654:A:H2'	1.84	0.59
35:BA:2769:C:H2'	35:BA:2770:G:C8	2.37	0.59
38:BD:70:TRP:NE1	38:BD:150:LYS:HE3	2.16	0.59
38:BD:93:ALA:N	38:BD:105:ILE:O	2.35	0.59
38:BD:106:ILE:O	38:BD:108:PRO:CD	2.49	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:3:GLY:O	39:BE:4:ILE:CB	2.49	0.59
40:BF:179:GLU:O	40:BF:181:LEU:N	2.34	0.59
42:BH:41:MET:HG3	42:BH:42:ARG:O	2.02	0.59
42:BH:85:LYS:NZ	42:BH:87:LEU:CD1	2.63	0.59
42:BH:137:ASP:O	42:BH:141:VAL:HG13	2.02	0.59
45:BN:56:ASN:H	45:BN:125:GLY:H	1.49	0.59
45:BN:74:ARG:NH2	45:BN:83:LYS:HD3	2.17	0.59
47:BP:107:LYS:O	47:BP:109:GLY:N	2.35	0.59
49:BR:48:VAL:HA	49:BR:51:LEU:CG	2.32	0.59
50:BS:56:LEU:O	50:BS:57:LYS:C	2.45	0.59
51:BT:48:ILE:O	51:BT:63:VAL:HG13	2.01	0.59
51:BT:62:THR:HA	51:BT:75:ILE:HA	1.83	0.59
52:BU:92:ARG:HB2	53:BV:11:GLN:NE2	2.17	0.59
52:BU:112:ARG:O	52:BU:115:ALA:HB3	2.01	0.59
53:BV:28:GLU:HB3	53:BV:29:PRO:CD	2.32	0.59
1:AA:332:G:H2'	1:AA:333:G:C8	2.34	0.59
1:AA:574:A:N3	1:AA:883:C:H1'	2.17	0.59
1:AA:1179:A:H2'	1:AA:1180:A:O5'	2.01	0.59
3:AC:165:THR:HG23	3:AC:165:THR:O	2.00	0.59
14:AN:53:LEU:CB	14:AN:56:VAL:HG21	2.30	0.59
17:AQ:83:ASP:CG	17:AQ:84:LEU:N	2.58	0.59
23:AX:16:A:H2'	23:AX:17:U:H6	1.67	0.59
24:AY:4:SER:OG	24:AY:5:PRO:HD2	2.01	0.59
24:AY:109:CYS:C	24:AY:137:ILE:HG22	2.27	0.59
24:AY:307:MET:HG2	24:AY:313:ASP:H	1.67	0.59
26:B1:22:GLY:O	26:B1:32:LYS:HE2	2.01	0.59
27:B2:25:VAL:C	27:B2:27:GLU:H	2.10	0.59
35:BA:271(L):U:H5''	35:BA:271(M):G:C5'	2.26	0.59
35:BA:1264:G:C8	35:BA:1265:A:C8	2.90	0.59
35:BA:1286:A:C2	35:BA:1329:U:C6	2.90	0.59
35:BA:1297:C:OP2	35:BA:2710:C:H4'	2.02	0.59
35:BA:2741:A:H2'	35:BA:2742:C:H5'	1.84	0.59
35:BA:2744:G:H22	42:BH:143:GLN:NE2	1.84	0.59
36:BB:40:U:H3'	36:BB:41:U:C5'	2.30	0.59
37:BC:47:LEU:N	37:BC:47:LEU:CD1	2.63	0.59
37:BC:49:ILE:HG23	37:BC:208:PHE:CD1	2.37	0.59
39:BE:67:PHE:HD1	39:BE:68:ALA:H	1.50	0.59
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.17	0.59
41:BG:15:VAL:HG12	41:BG:19:LEU:HD11	1.84	0.59
53:BV:58:VAL:CG1	53:BV:59:ALA:H	2.12	0.59
54:BW:3:ALA:O	54:BW:106:ILE:HA	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:55:A:C4	24:AY:311:HIS:NE2	2.69	0.59
1:AA:1296:C:H4'	1:AA:1302:U:C5	2.36	0.59
1:AA:1359:C:H3'	14:AN:35:ARG:NH2	2.17	0.59
1:AA:1393:U:H5'	1:AA:1502:A:OP1	2.02	0.59
2:AB:33:TYR:CE1	2:AB:43:ASP:OD1	2.54	0.59
4:AD:30:LYS:C	4:AD:32:ALA:H	2.06	0.59
5:AE:12:LEU:O	5:AE:13:ILE:HD12	2.00	0.59
6:AF:74:ASP:HB3	6:AF:77:ARG:NH2	2.14	0.59
7:AG:64:GLN:HE21	7:AG:68:ASN:ND2	1.99	0.59
12:AL:43:VAL:N	12:AL:53:ARG:O	2.27	0.59
16:AP:20:VAL:HA	16:AP:36:ILE:CG1	2.31	0.59
18:AR:69:THR:HA	18:AR:72:ARG:HD2	1.84	0.59
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.16	0.59
19:AS:43:GLU:HG2	29:B4:47:GLN:NE2	2.17	0.59
21:AU:24:ARG:O	21:AU:24:ARG:CG	2.50	0.59
24:AY:303:ILE:CG1	24:AY:375:ILE:HD11	2.32	0.59
26:B1:54:ALA:HB1	26:B1:56:GLN:HE21	1.66	0.59
27:B2:21:LEU:O	27:B2:24:LEU:HB3	2.02	0.59
35:BA:15:G:H2'	35:BA:16:G:H8	1.67	0.59
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.37	0.59
35:BA:687:C:H42	35:BA:787:U:H4'	1.66	0.59
35:BA:1041:G:H22	35:BA:1114:G:N2	2.00	0.59
35:BA:1645:G:H5''	35:BA:1646:C:H5'	1.84	0.59
35:BA:2312:U:OP1	41:BG:73:ALA:CA	2.50	0.59
35:BA:2737:G:H8	35:BA:2737:G:O5'	1.86	0.59
36:BB:48:A:C6	36:BB:49:C:N4	2.70	0.59
36:BB:82:G:H2'	36:BB:83:G:C8	2.37	0.59
38:BD:37:LEU:HD13	38:BD:62:TYR:CD1	2.38	0.59
38:BD:117:VAL:HG22	38:BD:118:VAL:H	1.67	0.59
39:BE:154:LYS:O	39:BE:155:LYS:C	2.44	0.59
41:BG:96:ARG:N	41:BG:99:MET:HE2	2.17	0.59
45:BN:93:THR:O	45:BN:93:THR:HG23	2.01	0.59
47:BP:33:ARG:O	47:BP:34:GLY:O	2.20	0.59
48:BQ:78:PRO:O	48:BQ:81:VAL:HG12	2.02	0.59
51:BT:62:THR:CG2	51:BT:75:ILE:HG23	2.31	0.59
51:BT:77:PRO:O	51:BT:78:LEU:HB2	2.02	0.59
52:BU:6:THR:HG21	52:BU:10:ARG:NH2	2.17	0.59
52:BU:43:GLY:O	53:BV:73:SER:O	2.20	0.59
56:BY:15:VAL:HB	56:BY:23:ARG:O	2.02	0.59
57:BZ:44:PHE:HD1	57:BZ:44:PHE:C	2.10	0.59
57:BZ:63:ASP:HB3	57:BZ:65:GLN:NE2	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:177:PRO:O	57:BZ:178:GLU:OE1	2.19	0.59
1:AA:896:C:H2'	1:AA:897:C:H5'	1.84	0.59
1:AA:1013:G:O2'	1:AA:1015:A:N7	2.34	0.59
3:AC:87:LEU:HD23	3:AC:87:LEU:N	2.17	0.59
4:AD:12:CYS:SG	4:AD:19:LEU:C	2.84	0.59
7:AG:115:ARG:O	7:AG:118:VAL:HG22	2.01	0.59
10:AJ:8:LEU:HD12	10:AJ:8:LEU:N	2.18	0.59
12:AL:45:PRO:CD	12:AL:51:ALA:O	2.50	0.59
13:AM:32:GLU:O	13:AM:35:GLU:HG2	2.02	0.59
16:AP:74:LEU:C	16:AP:79:VAL:HG23	2.28	0.59
17:AQ:59:ILE:HG22	17:AQ:60:ILE:N	2.18	0.59
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.13	0.59
19:AS:45:VAL:HA	19:AS:62:ILE:HG12	1.83	0.59
22:AV:27:U:H2'	22:AV:27:U:O2	2.00	0.59
24:AY:25:GLY:O	24:AY:29:ILE:N	2.26	0.59
24:AY:178:LEU:O	24:AY:180:LYS:HG3	2.01	0.59
24:AY:473:TRP:CD2	24:AY:527:ARG:HG2	2.37	0.59
25:B0:72:ARG:HB2	25:B0:75:LEU:HB3	1.84	0.59
26:B1:43:TYR:O	35:BA:396:G:O2'	2.17	0.59
28:B3:8:LEU:HD22	28:B3:31:LEU:HA	1.84	0.59
35:BA:13:A:H61	35:BA:525:U:H3'	1.66	0.59
35:BA:44:G:H21	35:BA:435:C:N4	2.00	0.59
35:BA:233:A:H2'	35:BA:234:C:H6	1.66	0.59
35:BA:271(Y):U:OP1	35:BA:272(D):G:H5''	2.01	0.59
35:BA:782:A:H2	38:BD:226:MET:CG	2.10	0.59
35:BA:1055:G:N2	35:BA:1085:A:H1'	2.17	0.59
35:BA:1061:U:O4	44:BK:55:UNK:HA	2.02	0.59
35:BA:1753:G:N2	35:BA:1758:G:N7	2.47	0.59
35:BA:2385:C:O2	35:BA:2386:C:C6	2.55	0.59
35:BA:2628:C:O2'	35:BA:2781:A:H2'	2.02	0.59
35:BA:2685:G:H4'	46:BO:67:LYS:NZ	2.17	0.59
35:BA:2847:U:H5''	51:BT:97:ALA:HB2	1.85	0.59
36:BB:69:G:C2	36:BB:70:C:C6	2.90	0.59
38:BD:24:ILE:HG12	38:BD:82:ILE:HG21	1.85	0.59
40:BF:199:TRP:O	40:BF:202:PHE:HB3	2.02	0.59
48:BQ:55:VAL:HA	48:BQ:58:PHE:HE1	1.63	0.59
51:BT:16:ARG:HH22	51:BT:19:LEU:HD21	1.66	0.59
51:BT:62:THR:HG22	51:BT:75:ILE:CG1	2.32	0.59
53:BV:3:ALA:HB3	53:BV:14:VAL:O	2.02	0.59
57:BZ:43:GLU:O	57:BZ:47:VAL:HG23	2.03	0.59
1:AA:547:A:OP2	4:AD:2:GLY:N	2.34	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:68:VAL:HG23	3:AC:102:ASN:O	2.02	0.59
3:AC:108:ASN:O	3:AC:111:LEU:HB2	2.03	0.59
6:AF:11:ASN:ND2	6:AF:86:ARG:HH22	1.99	0.59
11:AK:33:THR:HB	11:AK:38:ASN:C	2.28	0.59
20:AT:53:LEU:HD22	20:AT:100:ILE:O	2.02	0.59
24:AY:403:LEU:H	24:AY:403:LEU:CD2	2.13	0.59
24:AY:446:PHE:O	24:AY:449:VAL:HG23	2.01	0.59
35:BA:104:U:H2'	35:BA:105:C:C5'	2.33	0.59
35:BA:597:U:H2'	35:BA:598:G:C8	2.36	0.59
35:BA:601:C:C4'	40:BF:108:LYS:HZ1	2.16	0.59
35:BA:940:G:H2'	35:BA:941:A:H5''	1.85	0.59
35:BA:1193:G:H2'	35:BA:1194:A:O4'	2.02	0.59
35:BA:1308:A:H2'	35:BA:1309:G:O4'	2.03	0.59
35:BA:1826:G:C4'	38:BD:242:ARG:NH2	2.66	0.59
35:BA:1858:G:C6	35:BA:1883:G:C6	2.90	0.59
35:BA:2635:C:OP1	39:BE:77:ILE:HD12	2.03	0.59
38:BD:209:ALA:O	38:BD:210:GLY:C	2.44	0.59
38:BD:235:GLY:O	38:BD:236:GLY:O	2.21	0.59
40:BF:110:LEU:HD12	40:BF:206:ILE:CD1	2.32	0.59
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.84	0.59
40:BF:130:ALA:C	40:BF:132:VAL:H	2.10	0.59
46:BO:87:ILE:HG22	46:BO:92:GLU:N	2.18	0.59
48:BQ:54:MET:O	48:BQ:55:VAL:C	2.45	0.59
50:BS:35:ILE:HD11	50:BS:99:LYS:CE	2.28	0.59
53:BV:72:VAL:CG2	53:BV:85:LYS:HB3	2.27	0.59
1:AA:46:G:O2'	1:AA:365:U:H1'	2.03	0.59
1:AA:345:C:H4'	1:AA:346:G:OP1	2.03	0.59
1:AA:505:G:H2'	1:AA:506:G:H8	1.67	0.59
1:AA:866:C:H2'	1:AA:867:G:O4'	2.01	0.59
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.20	0.59
1:AA:1284:C:H2'	1:AA:1285:A:H8	1.68	0.59
5:AE:41:VAL:O	5:AE:66:MET:CA	2.48	0.59
5:AE:47:LYS:O	5:AE:48:ALA:CB	2.51	0.59
8:AH:11:THR:C	8:AH:13:ILE:H	2.10	0.59
9:AI:87:GLN:HG2	9:AI:88:TYR:HD1	1.67	0.59
13:AM:51:ALA:O	13:AM:52:GLU:C	2.46	0.59
13:AM:70:LEU:HA	13:AM:73:GLU:CB	2.33	0.59
15:AO:3:ILE:CD1	15:AO:8:LYS:HE2	2.32	0.59
15:AO:23:GLY:O	15:AO:24:SER:CB	2.50	0.59
15:AO:55:GLY:O	15:AO:59:MET:HG3	2.02	0.59
18:AR:86:VAL:O	18:AR:87:ARG:HB3	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:29:ARG:HB2	19:AS:48:THR:HB	1.84	0.59
19:AS:58:VAL:HG23	19:AS:58:VAL:O	2.03	0.59
24:AY:34:LEU:HD21	24:AY:86:LEU:HD23	1.85	0.59
24:AY:128:GLU:O	24:AY:131:ARG:HG3	2.01	0.59
25:B0:20:ARG:HD3	35:BA:2356:C:O3'	2.03	0.59
32:B7:2:LYS:CE	35:BA:687:C:H5''	2.32	0.59
34:B9:29:ASN:ND2	34:B9:32:HIS:CE1	2.70	0.59
35:BA:432:A:H2'	35:BA:433:C:H6	1.66	0.59
35:BA:482:A:N6	35:BA:506:G:C8	2.70	0.59
35:BA:912:C:C2'	35:BA:913:U:H5'	2.32	0.59
35:BA:988:A:C2	35:BA:989:G:N2	2.71	0.59
35:BA:1516:C:C2'	35:BA:1517:G:H5''	2.31	0.59
35:BA:1894:C:H2'	35:BA:1894:C:O2	2.02	0.59
35:BA:1971:A:N7	38:BD:241:PRO:HG3	2.17	0.59
35:BA:2498:C:H2'	35:BA:2499:C:H5''	1.85	0.59
36:BB:57:A:H2'	36:BB:57:A:N3	2.17	0.59
38:BD:11:PRO:O	38:BD:12:SER:OG	2.18	0.59
38:BD:24:ILE:HG21	38:BD:84:TYR:N	2.18	0.59
39:BE:1:MET:HB3	39:BE:200:GLU:OE2	2.03	0.59
41:BG:71:THR:CG2	41:BG:72:ARG:N	2.65	0.59
45:BN:4:TYR:N	45:BN:4:TYR:CD1	2.68	0.59
49:BR:20:LEU:O	49:BR:22:ARG:N	2.36	0.59
49:BR:101:ALA:O	49:BR:102:GLU:HB2	2.02	0.59
50:BS:69:VAL:O	50:BS:72:ALA:HB3	2.01	0.59
55:BX:30:VAL:HG21	55:BX:39:ILE:HD11	1.83	0.59
57:BZ:117:LEU:HD12	57:BZ:118:GLN:H	1.68	0.59
1:AA:376:G:O3'	16:AP:5:ARG:HD3	2.02	0.59
1:AA:575:G:C5	1:AA:881:G:C2	2.91	0.59
1:AA:597:G:C2'	1:AA:598:U:H5'	2.31	0.59
3:AC:109:PRO:C	3:AC:111:LEU:H	2.10	0.59
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.85	0.59
7:AG:138:LYS:O	7:AG:141:VAL:HB	2.03	0.59
8:AH:2:LEU:HD22	8:AH:5:PRO:HA	1.85	0.59
12:AL:84:LEU:O	12:AL:101:VAL:HG23	2.03	0.59
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.02	0.59
19:AS:40:ILE:HG21	19:AS:66:MET:O	2.02	0.59
24:AY:164:ILE:HD11	24:AY:251:ILE:O	2.01	0.59
24:AY:299:PHE:HE2	24:AY:319:ARG:CG	2.16	0.59
24:AY:359:ALA:CA	24:AY:363:ASP:OD2	2.50	0.59
26:B1:69:LYS:O	26:B1:72:GLU:N	2.32	0.59
35:BA:601:C:H5'	40:BF:108:LYS:NZ	2.18	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:783:A:C5	35:BA:785:G:C8	2.90	0.59
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.20	0.59
35:BA:1417:C:O2'	35:BA:1418:G:H5'	2.02	0.59
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.37	0.59
37:BC:22:ILE:HG22	37:BC:22:ILE:O	2.02	0.59
37:BC:53:ARG:NH1	37:BC:56:GLN:NE2	2.49	0.59
37:BC:171:ILE:HD13	37:BC:196:LEU:HD22	1.85	0.59
38:BD:124:PRO:HD2	38:BD:129:ASN:ND2	2.18	0.59
40:BF:3:GLU:C	40:BF:24:LEU:HG	2.28	0.59
40:BF:3:GLU:HA	40:BF:24:LEU:CB	2.33	0.59
40:BF:195:ASP:O	40:BF:199:TRP:N	2.36	0.59
42:BH:71:LEU:HD22	42:BH:72:ILE:HD13	1.80	0.59
45:BN:47:ALA:CA	45:BN:48:MET:HE3	2.32	0.59
45:BN:118:LYS:C	45:BN:120:LEU:H	2.11	0.59
50:BS:97:ARG:HH22	50:BS:98:VAL:HA	1.58	0.59
51:BT:110:ILE:HG22	51:BT:111:ARG:N	2.16	0.59
52:BU:68:ALA:HB1	52:BU:106:PHE:HE2	1.67	0.59
55:BX:35:THR:C	55:BX:37:THR:H	2.11	0.59
56:BY:101:LYS:CG	56:BY:102:CYS:N	2.65	0.59
1:AA:986:A:H2'	1:AA:987:G:O4'	2.03	0.59
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.38	0.59
1:AA:1503:A:H2'	23:AX:12:A:N6	2.18	0.59
2:AB:16:HIS:HD2	2:AB:209:ARG:C	2.09	0.59
5:AE:43:LEU:HD21	5:AE:132:ALA:CB	2.23	0.59
6:AF:18:GLN:HA	6:AF:21:LEU:HB2	1.85	0.59
6:AF:22:GLU:O	6:AF:25:ILE:HG22	2.02	0.59
7:AG:50:ILE:HD11	7:AG:121:ALA:HA	1.85	0.59
9:AI:33:PHE:O	9:AI:35:GLU:N	2.36	0.59
9:AI:45:ALA:C	9:AI:47:LEU:H	2.10	0.59
12:AL:93:LEU:O	12:AL:96:VAL:HG23	2.03	0.59
15:AO:68:ARG:HG3	15:AO:72:ARG:HE	1.68	0.59
16:AP:5:ARG:HE	16:AP:22:THR:HG21	1.67	0.59
19:AS:29:ARG:HB3	19:AS:48:THR:H	1.68	0.59
24:AY:336:THR:O	24:AY:337:ALA:HB3	2.03	0.59
24:AY:527:ARG:HH12	24:AY:529:HIS:HA	1.62	0.59
35:BA:572:A:C2'	35:BA:573:G:O4'	2.50	0.59
35:BA:1135:C:O2	35:BA:1135:C:H2'	2.01	0.59
35:BA:1210:A:H5'	35:BA:1210:A:H8	1.65	0.59
35:BA:1214:A:H5'	35:BA:1239:G:H4'	1.84	0.59
35:BA:2331:G:N2	35:BA:2385:C:C5	2.71	0.59
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.83	0.59
35:BA:2820:A:H62	39:BE:192:ASN:CB	2.08	0.59
36:BB:54:G:N2	36:BB:55:U:C2	2.70	0.59
37:BC:49:ILE:HG23	37:BC:208:PHE:CE1	2.37	0.59
38:BD:13:ARG:HA	38:BD:16:MET:SD	2.42	0.59
38:BD:129:ASN:N	38:BD:193:VAL:CG1	2.66	0.59
38:BD:143:HIS:O	38:BD:144:ALA:HB3	2.02	0.59
38:BD:208:LYS:HG3	38:BD:210:GLY:H	1.67	0.59
39:BE:48:GLN:CG	39:BE:78:LEU:HD13	2.33	0.59
39:BE:63:LEU:O	39:BE:64:LYS:C	2.45	0.59
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.28	0.59
40:BF:78:ILE:C	40:BF:80:ALA:H	2.10	0.59
42:BH:107:VAL:O	42:BH:152:ARG:NH1	2.36	0.59
43:BJ:24:UNK:HA	43:BJ:85:LEU:O	2.02	0.59
45:BN:46:VAL:O	45:BN:47:ALA:HB3	2.03	0.59
47:BP:146:VAL:O	47:BP:147:LEU:C	2.45	0.59
49:BR:87:TYR:CE2	49:BR:94:TYR:HB3	2.37	0.59
50:BS:51:ALA:HB2	50:BS:73:LEU:HB2	1.84	0.59
52:BU:112:ARG:HH11	52:BU:112:ARG:HG3	1.67	0.59
54:BW:64:MET:O	54:BW:65:LEU:O	2.20	0.59
57:BZ:24:LEU:HD21	57:BZ:86:VAL:HG21	1.83	0.59
1:AA:34:C:H2'	1:AA:35:G:H8	1.68	0.59
1:AA:344:A:H5''	1:AA:345:C:H5	1.68	0.59
1:AA:883:C:N3	1:AA:884:U:C4	2.70	0.59
1:AA:1201:A:H4'	1:AA:1202:G:C5'	2.32	0.59
2:AB:146:GLN:O	2:AB:148:TYR:N	2.36	0.59
3:AC:145:GLY:O	3:AC:146:ALA:HB3	2.01	0.59
8:AH:1:MET:O	8:AH:1:MET:HG2	2.01	0.59
14:AN:47:LEU:HD13	14:AN:52:GLN:CB	2.29	0.59
15:AO:68:ARG:CG	15:AO:72:ARG:NE	2.66	0.59
17:AQ:7:THR:HA	17:AQ:58:GLU:HA	1.85	0.59
17:AQ:63:ARG:HG2	17:AQ:64:PRO:CD	2.33	0.59
18:AR:34:TYR:CD1	18:AR:35:ARG:HG3	2.38	0.59
20:AT:10:LEU:HD12	20:AT:11:SER:H	1.67	0.59
20:AT:104:LEU:C	20:AT:104:LEU:HD23	2.28	0.59
24:AY:155:LEU:H	24:AY:155:LEU:CD1	2.14	0.59
24:AY:210:LEU:N	24:AY:210:LEU:HD22	2.18	0.59
24:AY:261:GLY:C	24:AY:263:PHE:H	2.11	0.59
24:AY:282:ARG:NE	24:AY:319:ARG:HH12	2.00	0.59
24:AY:518:TYR:N	24:AY:518:TYR:HD1	2.00	0.59
25:B0:37:LEU:HG	25:B0:59:LEU:C	2.27	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:52:GLY:HA3	25:B0:60:PHE:CZ	2.37	0.59
33:B8:8:LYS:NZ	33:B8:11:LYS:NZ	2.36	0.59
35:BA:7:G:O2'	35:BA:8:A:H5'	2.03	0.59
35:BA:23:G:H1	35:BA:517:C:H42	1.48	0.59
35:BA:443:A:C2	35:BA:1245:G:N3	2.70	0.59
35:BA:588:U:H2'	35:BA:589:C:H6	1.68	0.59
35:BA:824:A:H2'	35:BA:825:C:C6	2.37	0.59
35:BA:961:C:N4	35:BA:2031:A:H1'	2.18	0.59
35:BA:1496:A:C8	35:BA:1498:C:N4	2.71	0.59
35:BA:1670:C:O5'	35:BA:1670:C:H6	1.85	0.59
35:BA:1926:U:H3'	35:BA:1927:A:H5''	1.85	0.59
35:BA:2068:U:H3	35:BA:2430:A:H2	1.47	0.59
35:BA:2590:A:O2'	35:BA:2591:C:H5'	2.03	0.59
35:BA:2606:C:O2'	35:BA:2607:G:H5'	2.03	0.59
37:BC:161:ILE:HG21	37:BC:174:PRO:HG2	1.85	0.59
38:BD:11:PRO:O	38:BD:12:SER:CB	2.50	0.59
38:BD:21:PHE:O	38:BD:25:THR:OG1	2.21	0.59
39:BE:12:THR:HG23	39:BE:13:ARG:H	1.66	0.59
39:BE:38:THR:C	39:BE:40:GLU:H	2.09	0.59
41:BG:6:ALA:O	41:BG:10:LYS:N	2.28	0.59
42:BH:67:LEU:O	42:BH:71:LEU:HB2	2.02	0.59
42:BH:94:TYR:HD1	42:BH:107:VAL:C	2.11	0.59
43:BJ:91:UNK:O	43:BJ:93:UNK:N	2.36	0.59
45:BN:62:VAL:HG11	45:BN:67:LEU:HD21	1.84	0.59
47:BP:70:GLN:HB3	47:BP:72:PRO:CD	2.32	0.59
48:BQ:31:ASP:HB3	48:BQ:32:TYR:CD1	2.38	0.59
48:BQ:109:VAL:O	48:BQ:110:THR:C	2.44	0.59
49:BR:72:ASP:OD2	49:BR:75:LEU:HD23	2.03	0.59
57:BZ:162:GLU:C	57:BZ:163:LEU:HD23	2.27	0.59
1:AA:275:G:H2'	1:AA:276:G:C8	2.35	0.59
1:AA:355:C:N4	1:AA:356:A:N6	2.51	0.59
1:AA:826:C:C5	1:AA:827:U:H5	2.21	0.59
1:AA:862:C:O2'	1:AA:863:U:H5'	2.03	0.59
1:AA:874:G:C6	1:AA:875:C:C4	2.90	0.59
1:AA:914:A:H2'	1:AA:915:A:H8	1.67	0.59
1:AA:1124:G:C2	1:AA:1127:G:N2	2.71	0.59
1:AA:1392:G:N2	1:AA:1502:A:H8	2.00	0.59
1:AA:1494:G:C5	1:AA:1495:U:C4	2.90	0.59
2:AB:41:ILE:HG22	2:AB:42:ILE:O	2.03	0.59
2:AB:51:LEU:CD2	2:AB:55:PHE:HE2	2.12	0.59
7:AG:21:VAL:O	7:AG:23:VAL:N	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:20:ARG:O	9:AI:22:GLY:N	2.36	0.59
11:AK:37:GLY:C	11:AK:38:ASN:HD22	2.09	0.59
12:AL:7:ILE:CG1	12:AL:10:LEU:HD12	2.33	0.59
19:AS:49:ILE:O	19:AS:60:VAL:HG13	2.02	0.59
22:AV:26:G:C2'	22:AV:27:U:OP1	2.51	0.59
24:AY:470:THR:CG2	24:AY:472:ARG:NH2	2.65	0.59
31:B6:25:LYS:NZ	35:BA:2285:C:H41	2.01	0.59
32:B7:11:LYS:HE3	35:BA:686:G:N2	2.18	0.59
33:B8:32:LEU:HB3	33:B8:36:LYS:HE2	1.85	0.59
35:BA:9:U:HO2'	35:BA:10:G:H8	1.50	0.59
35:BA:145:G:H2'	35:BA:146:G:O4'	2.03	0.59
35:BA:531:C:H5''	35:BA:532:A:C5	2.38	0.59
35:BA:603:A:C2	35:BA:604:G:H1'	2.38	0.59
35:BA:989:G:C5'	35:BA:1157:G:H4'	2.27	0.59
35:BA:1133:U:O2'	35:BA:1137:G:OP1	2.17	0.59
35:BA:1190:G:OP1	47:BP:32:THR:OG1	2.20	0.59
35:BA:1498:C:O2'	35:BA:1499:C:H5''	2.03	0.59
35:BA:2394:C:OP1	47:BP:63:PRO:HD2	2.03	0.59
35:BA:2581:G:C6	35:BA:2610:C:N3	2.71	0.59
35:BA:2656:U:H2'	35:BA:2657:A:H5''	1.83	0.59
35:BA:2716:U:H2'	35:BA:2717:G:H8	1.68	0.59
35:BA:2839:G:H2'	35:BA:2840:C:H6	1.67	0.59
38:BD:227:ASN:HB3	38:BD:229:VAL:HG12	1.85	0.59
39:BE:114:ALA:O	39:BE:119:ARG:HB2	2.03	0.59
40:BF:154:VAL:CG2	40:BF:191:ARG:HB3	2.29	0.59
45:BN:46:VAL:CG1	45:BN:48:MET:HG3	2.33	0.59
47:BP:58:THR:C	47:BP:61:ARG:HE	2.09	0.59
47:BP:92:GLU:HA	47:BP:123:LEU:HD11	1.84	0.59
53:BV:3:ALA:HB1	53:BV:14:VAL:HG22	1.84	0.59
53:BV:16:PRO:O	53:BV:96:ILE:O	2.21	0.59
57:BZ:120:ILE:N	57:BZ:120:ILE:HD13	2.18	0.59
1:AA:18:C:P	5:AE:14:ARG:HH12	2.26	0.58
1:AA:170:U:O2'	1:AA:171:A:H5'	2.03	0.58
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.17	0.58
2:AB:162:ILE:CG1	2:AB:163:PHE:N	2.65	0.58
3:AC:53:ALA:HB2	3:AC:114:PRO:HB2	1.84	0.58
4:AD:140:VAL:HG11	4:AD:146:ILE:HD11	1.84	0.58
7:AG:21:VAL:C	7:AG:23:VAL:H	2.11	0.58
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.18	0.58
10:AJ:12:ASP:C	10:AJ:14:LYS:H	2.11	0.58
10:AJ:61:GLU:OE2	14:AN:58:LYS:HD3	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:62:GLN:HA	15:AO:65:ARG:CD	2.33	0.58
19:AS:75:ALA:N	19:AS:76:PRO:CD	2.66	0.58
21:AU:13:ILE:O	21:AU:16:GLY:N	2.35	0.58
22:AV:8:U:H1'	22:AV:48:C:H1'	1.85	0.58
24:AY:106:VAL:CG2	24:AY:107:ASP:N	2.65	0.58
25:B0:25:ARG:HH11	25:B0:25:ARG:HG2	1.68	0.58
29:B4:8:LYS:O	29:B4:9:LEU:HB2	2.03	0.58
35:BA:317:G:N2	35:BA:318:C:H1'	2.18	0.58
35:BA:670:A:H4'	35:BA:671:C:H5''	1.86	0.58
35:BA:729:G:C5	38:BD:208:LYS:HD2	2.38	0.58
35:BA:811:U:O2	35:BA:1251:C:C5	2.56	0.58
35:BA:817:C:O2'	35:BA:839:U:H5''	2.02	0.58
35:BA:1025:G:H1	35:BA:1140:C:N4	2.00	0.58
35:BA:1216:G:O2'	35:BA:1217:C:H5'	2.03	0.58
35:BA:1439:A:H3'	35:BA:1440:G:H8	1.68	0.58
35:BA:1909:C:H42	35:BA:1921:G:H1	1.50	0.58
35:BA:2399:G:O6	35:BA:2417:C:N3	2.36	0.58
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.33	0.58
38:BD:66:ASP:OD2	38:BD:103:ARG:CZ	2.51	0.58
39:BE:52:LEU:HD23	39:BE:75:VAL:CB	2.27	0.58
40:BF:89:VAL:HG12	40:BF:90:PHE:CD2	2.37	0.58
48:BQ:21:THR:HA	48:BQ:98:LYS:HB2	1.83	0.58
48:BQ:131:ILE:N	48:BQ:131:ILE:CD1	2.66	0.58
53:BV:29:PRO:O	53:BV:61:VAL:HG23	2.03	0.58
56:BY:79:CYS:O	56:BY:81:LYS:N	2.36	0.58
1:AA:18:C:H2'	1:AA:19:C:C6	2.38	0.58
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.02	0.58
1:AA:913:A:H4'	1:AA:914:A:C4'	2.33	0.58
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.19	0.58
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.17	0.58
2:AB:127:ILE:HD11	2:AB:139:LYS:HE3	1.85	0.58
2:AB:155:LEU:HD13	2:AB:157:ARG:O	2.03	0.58
2:AB:187:LEU:HD23	2:AB:201:ILE:O	2.02	0.58
2:AB:200:ILE:HG22	2:AB:202:PRO:CD	2.28	0.58
3:AC:21:ARG:O	3:AC:22:TRP:CD1	2.56	0.58
4:AD:91:SER:O	4:AD:94:LEU:HB2	2.03	0.58
5:AE:115:VAL:CG1	5:AE:116:THR:N	2.65	0.58
5:AE:149:GLU:C	5:AE:151:LEU:H	2.11	0.58
13:AM:103:THR:O	13:AM:105:THR:N	2.36	0.58
15:AO:65:ARG:HG2	15:AO:65:ARG:NH1	2.17	0.58
16:AP:3:LYS:HB3	16:AP:65:GLN:O	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:55:LYS:HG2	19:AS:56:GLN:NE2	2.18	0.58
22:AV:39:C:H2'	22:AV:39:C:O2	2.03	0.58
22:AV:50:U:H2'	22:AV:51:C:C6	2.37	0.58
24:AY:14:ARG:CG	24:AY:276:ALA:HB1	2.33	0.58
24:AY:138:LEU:HD22	24:AY:275:TRP:HZ3	1.67	0.58
24:AY:443:VAL:CG2	24:AY:444:LEU:HD22	2.33	0.58
24:AY:508:MET:HA	24:AY:511:LEU:HB3	1.84	0.58
25:B0:40:GLN:OE1	25:B0:44:ARG:HB2	2.03	0.58
26:B1:48:LYS:CE	26:B1:59:THR:HB	2.33	0.58
26:B1:53:VAL:O	26:B1:54:ALA:HB3	2.03	0.58
35:BA:20:C:H2'	35:BA:21:A:C8	2.38	0.58
35:BA:1287:A:C2'	35:BA:1288:U:H5'	2.33	0.58
35:BA:1341:U:OP1	35:BA:1397:U:N3	2.36	0.58
35:BA:1665:A:H8	35:BA:1665:A:O5'	1.85	0.58
35:BA:1887:C:C2'	35:BA:1888:G:H5''	2.33	0.58
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.69	0.58
35:BA:2282:G:H5''	35:BA:2283:C:O4'	2.03	0.58
35:BA:2514:U:O4'	39:BE:151:TYR:HE2	1.87	0.58
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.84	0.58
35:BA:2680:C:H5'	39:BE:189:PRO:HA	1.85	0.58
35:BA:2787:C:O2	39:BE:61:ARG:HD3	2.03	0.58
37:BC:74:VAL:HG13	37:BC:112:ALA:CB	2.32	0.58
38:BD:6:PHE:CE2	38:BD:17:THR:HA	2.38	0.58
38:BD:63:ARG:O	38:BD:64:ILE:C	2.45	0.58
38:BD:147:LEU:CD2	38:BD:183:ARG:CZ	2.80	0.58
45:BN:112:LEU:O	45:BN:115:ARG:HB3	2.02	0.58
46:BO:17:ARG:NH2	46:BO:99:PHE:CE2	2.71	0.58
49:BR:5:LYS:O	49:BR:6:SER:HB2	2.03	0.58
49:BR:47:PHE:O	49:BR:49:ASP:N	2.36	0.58
51:BT:65:LYS:HE3	51:BT:66:VAL:H	1.69	0.58
52:BU:109:LEU:O	52:BU:113:ALA:N	2.36	0.58
57:BZ:71:VAL:HG12	57:BZ:73:GLN:O	2.03	0.58
1:AA:622:A:H3'	1:AA:623:C:C6	2.38	0.58
1:AA:769:G:N2	1:AA:811:C:H1'	2.18	0.58
1:AA:945:G:H2'	1:AA:946:A:H5'	1.84	0.58
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.18	0.58
3:AC:6:HIS:O	3:AC:7:PRO:C	2.44	0.58
6:AF:80:ARG:HA	6:AF:85:VAL:HG11	1.85	0.58
8:AH:5:PRO:HD2	8:AH:6:ILE:HD12	1.85	0.58
10:AJ:82:ILE:HG22	10:AJ:86:MET:HE2	1.85	0.58
12:AL:41:ARG:CZ	12:AL:41:ARG:CB	2.80	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:70:LEU:O	15:AO:74:ASP:O	2.21	0.58
24:AY:215:LEU:HD23	24:AY:216:ASP:H	1.68	0.58
24:AY:223:LEU:HA	24:AY:226:GLN:OE1	2.02	0.58
24:AY:446:PHE:HA	24:AY:449:VAL:HG22	1.85	0.58
27:B2:47:ASN:HA	27:B2:50:ILE:HD13	1.85	0.58
35:BA:1003:G:N2	35:BA:1004:C:O2	2.37	0.58
35:BA:1045:A:OP1	35:BA:1046:A:H3'	2.04	0.58
35:BA:1070:A:C6	35:BA:1097:U:H4'	2.37	0.58
35:BA:1218:C:C2'	35:BA:1219:G:H5'	2.33	0.58
35:BA:1304:C:H2'	35:BA:1305:C:H6	1.67	0.58
35:BA:1683:C:H6	35:BA:1683:C:O5'	1.86	0.58
35:BA:1799:G:OP1	38:BD:260:ARG:NE	2.36	0.58
35:BA:2277:G:C6	35:BA:2278:A:N7	2.71	0.58
35:BA:2579:C:O4'	39:BE:134:ILE:HG21	2.03	0.58
35:BA:2795:G:N3	35:BA:2795:G:H2'	2.18	0.58
38:BD:226:MET:SD	38:BD:230:ASP:O	2.61	0.58
39:BE:38:THR:HB	39:BE:41:LYS:HG2	1.85	0.58
39:BE:52:LEU:CD2	39:BE:75:VAL:HB	2.26	0.58
39:BE:81:ILE:O	39:BE:82:ARG:O	2.20	0.58
40:BF:101:LEU:CD1	40:BF:102:PRO:HD2	2.20	0.58
47:BP:71:VAL:H	47:BP:72:PRO:HD2	1.64	0.58
47:BP:107:LYS:C	47:BP:109:GLY:H	2.11	0.58
47:BP:114:ILE:CG2	47:BP:130:PHE:CD1	2.86	0.58
51:BT:121:ILE:O	51:BT:124:ASP:CB	2.48	0.58
52:BU:57:PHE:HD1	52:BU:60:LEU:HD12	1.68	0.58
57:BZ:48:PHE:O	57:BZ:50:GLN:N	2.36	0.58
57:BZ:48:PHE:O	57:BZ:52:SER:N	2.36	0.58
1:AA:840:C:H5'	1:AA:841:U:OP1	2.03	0.58
1:AA:878:G:P	8:AH:88:LYS:HD2	2.44	0.58
1:AA:914:A:O2'	1:AA:915:A:H5'	2.02	0.58
2:AB:92:TYR:CD1	2:AB:93:VAL:N	2.71	0.58
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.85	0.58
4:AD:30:LYS:O	4:AD:31:CYS:C	2.46	0.58
11:AK:28:THR:HG22	11:AK:29:ILE:N	2.17	0.58
11:AK:95:ILE:O	11:AK:98:LEU:HB2	2.04	0.58
12:AL:53:ARG:HG2	12:AL:53:ARG:NH1	2.17	0.58
12:AL:82:VAL:HG22	24:AY:406:PRO:HB3	1.84	0.58
22:AV:72:A:O2'	35:BA:1852:C:H4'	2.02	0.58
31:B6:7:ILE:HB	31:B6:27:LYS:HZ2	1.69	0.58
31:B6:19:ARG:HH11	31:B6:19:ARG:HG3	1.67	0.58
35:BA:30:G:O2'	35:BA:31:C:H5'	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:85:G:OP1	56:BY:30:VAL:HB	2.02	0.58
35:BA:254:G:O2'	35:BA:384:U:H5'	2.03	0.58
35:BA:981:A:H8	35:BA:982:C:C5	2.22	0.58
35:BA:1057:A:C2'	35:BA:1058:G:H5'	2.33	0.58
35:BA:1070:A:C6	44:BK:7:UNK:C	2.86	0.58
35:BA:1463:C:H2'	35:BA:1464:C:C6	2.38	0.58
35:BA:1691:C:H2'	35:BA:1692:U:C6	2.37	0.58
35:BA:2243:U:O2	35:BA:2434:A:C2	2.56	0.58
35:BA:2576:G:OP1	35:BA:2577:A:OP1	2.21	0.58
35:BA:2868:A:H2'	35:BA:2869:G:H8	1.66	0.58
36:BB:68:C:C2'	36:BB:69:G:H8	2.15	0.58
38:BD:36:PRO:O	38:BD:37:LEU:CB	2.48	0.58
40:BF:63:LYS:HZ1	40:BF:67:GLN:HA	1.69	0.58
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.21	0.58
41:BG:71:THR:HB	41:BG:89:GLY:CA	2.32	0.58
42:BH:109:PHE:CD2	42:BH:152:ARG:NH1	2.72	0.58
45:BN:76:SER:N	45:BN:81:GLY:O	2.35	0.58
45:BN:90:MET:CE	45:BN:90:MET:HA	2.33	0.58
47:BP:94:GLU:HG3	47:BP:124:LYS:CB	2.34	0.58
50:BS:49:VAL:HG12	50:BS:50:SER:N	2.18	0.58
54:BW:6:ILE:HG23	54:BW:104:THR:HG22	1.86	0.58
1:AA:67:C:H6	1:AA:67:C:H3'	1.68	0.58
1:AA:938:A:H2'	1:AA:939:G:O4'	2.04	0.58
1:AA:980:C:O2'	14:AN:19:ARG:HG2	2.04	0.58
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.68	0.58
1:AA:1266:G:N2	1:AA:1268:A:H3'	2.18	0.58
3:AC:83:ARG:O	3:AC:87:LEU:HG	2.04	0.58
5:AE:72:GLN:O	5:AE:73:ASN:CB	2.49	0.58
6:AF:53:ALA:C	6:AF:55:ASP:H	2.11	0.58
9:AI:46:ALA:HB1	9:AI:77:ILE:CG2	2.33	0.58
13:AM:23:TYR:HB3	13:AM:67:GLU:CB	2.33	0.58
15:AO:60:VAL:O	15:AO:63:ARG:HB3	2.03	0.58
18:AR:83:GLU:C	18:AR:84:LYS:NZ	2.61	0.58
19:AS:9:VAL:CG1	19:AS:11:VAL:HG12	2.24	0.58
22:AV:34:C:H2'	22:AV:35:A:C8	2.37	0.58
24:AY:316:ALA:O	24:AY:317:PHE:C	2.46	0.58
24:AY:325:TYR:O	24:AY:358:GLU:HA	2.02	0.58
24:AY:470:THR:OG1	24:AY:471:ALA:N	2.37	0.58
30:B5:59:GLU:O	30:B5:59:GLU:HG3	2.04	0.58
35:BA:143:G:H5''	35:BA:1598:C:O2'	2.03	0.58
35:BA:448:U:H5'	35:BA:449:A:C8	2.37	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:568:U:C5'	35:BA:945:A:N6	2.67	0.58
35:BA:627:A:H61	35:BA:636:G:H2'	1.67	0.58
35:BA:654(Q):C:O2'	35:BA:654(R):C:H5'	2.04	0.58
35:BA:742:G:H4'	35:BA:1675:C:O2'	2.03	0.58
35:BA:782:A:N1	38:BD:226:MET:HE3	2.19	0.58
35:BA:1951:U:O2	35:BA:1954:G:H8	1.86	0.58
35:BA:2360:A:O2'	35:BA:2361:A:O4'	2.21	0.58
35:BA:2689:U:H5''	35:BA:2690:C:C5'	2.25	0.58
35:BA:2796:U:OP2	35:BA:2799:C:C5	2.56	0.58
38:BD:182:LEU:CA	38:BD:272:ALA:HB2	2.33	0.58
39:BE:4:ILE:HG22	39:BE:198:VAL:HB	1.85	0.58
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.02	0.58
45:BN:24:GLY:C	45:BN:26:LEU:H	2.12	0.58
50:BS:97:ARG:CZ	50:BS:97:ARG:C	2.76	0.58
52:BU:92:ARG:NH2	53:BV:10:LYS:HG2	2.19	0.58
53:BV:40:LEU:CD1	53:BV:46:VAL:H	2.16	0.58
56:BY:6:HIS:CD2	56:BY:6:HIS:H	2.21	0.58
57:BZ:44:PHE:C	57:BZ:44:PHE:CD1	2.81	0.58
57:BZ:72:ARG:O	57:BZ:73:GLN:HB3	2.02	0.58
1:AA:18:C:H2'	1:AA:19:C:H6	1.69	0.58
1:AA:383:A:H2'	1:AA:384:G:H5'	1.83	0.58
1:AA:777:A:H2'	1:AA:778:G:H8	1.68	0.58
1:AA:1014:A:H5'	19:AS:14:HIS:CD2	2.39	0.58
5:AE:24:ARG:HD3	5:AE:26:PHE:CE2	2.39	0.58
5:AE:115:VAL:HG13	5:AE:116:THR:N	2.18	0.58
7:AG:76:ARG:HH11	7:AG:76:ARG:HG2	1.69	0.58
15:AO:68:ARG:HG3	15:AO:72:ARG:CG	2.33	0.58
16:AP:40:ASP:OD1	16:AP:43:LYS:N	2.37	0.58
16:AP:61:SER:O	16:AP:62:VAL:HG13	2.03	0.58
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	1.86	0.58
24:AY:28:THR:O	24:AY:32:LYS:HG3	2.03	0.58
24:AY:138:LEU:CD2	24:AY:275:TRP:CE3	2.84	0.58
24:AY:210:LEU:HD22	24:AY:210:LEU:H	1.67	0.58
24:AY:430:PRO:C	24:AY:432:SER:H	2.12	0.58
24:AY:446:PHE:O	24:AY:449:VAL:HG22	2.04	0.58
24:AY:518:TYR:N	24:AY:518:TYR:CD1	2.71	0.58
26:B1:90:ILE:O	26:B1:94:LEU:HD13	2.03	0.58
35:BA:154:G:H1	35:BA:172:C:H42	1.50	0.58
35:BA:225:A:C2'	35:BA:226:G:H5'	2.33	0.58
35:BA:1012:U:O5'	35:BA:1013:C:H5''	2.02	0.58
35:BA:1655:A:C2	35:BA:2049:G:H4'	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2115:G:C3'	35:BA:2116:G:H5''	2.34	0.58
35:BA:2439:A:C5'	35:BA:2439:A:H8	2.16	0.58
36:BB:73:A:H2'	36:BB:74:U:O4'	2.04	0.58
37:BC:155:GLU:HG3	37:BC:160:ARG:HD3	1.84	0.58
38:BD:2:ALA:C	38:BD:3:VAL:CG2	2.77	0.58
38:BD:90:ALA:HB3	38:BD:106:ILE:CG2	2.32	0.58
41:BG:7:LEU:HD22	41:BG:176:LEU:HD21	1.84	0.58
42:BH:30:LYS:HB2	42:BH:79:VAL:O	2.03	0.58
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.68	0.58
45:BN:57:ALA:HB3	45:BN:124:ALA:HA	1.86	0.58
49:BR:117:VAL:HG22	49:BR:118:GLU:H	1.68	0.58
53:BV:6:LYS:O	53:BV:37:VAL:HG21	2.04	0.58
57:BZ:8:TYR:HB2	57:BZ:38:TYR:CZ	2.38	0.58
1:AA:415:A:H2'	1:AA:416:G:C8	2.38	0.58
1:AA:679:C:H2'	1:AA:680:C:C6	2.39	0.58
1:AA:951:G:O2'	1:AA:952:U:H5'	2.02	0.58
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.38	0.58
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.39	0.58
8:AH:85:ARG:HG3	8:AH:85:ARG:NH1	2.18	0.58
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.22	0.58
12:AL:36:VAL:CB	12:AL:82:VAL:HA	2.34	0.58
12:AL:82:VAL:O	12:AL:83:VAL:HG13	2.03	0.58
17:AQ:11:VAL:HG22	17:AQ:20:THR:O	2.03	0.58
20:AT:13:LEU:HD23	20:AT:13:LEU:H	1.68	0.58
26:B1:20:ARG:HB2	26:B1:33:LYS:O	2.03	0.58
33:B8:2:PRO:O	33:B8:3:LYS:C	2.46	0.58
35:BA:81:G:H3'	35:BA:82:G:H8	1.68	0.58
35:BA:182:A:H2'	35:BA:183:C:C6	2.39	0.58
35:BA:406:G:H2'	35:BA:407:G:C8	2.39	0.58
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.04	0.58
35:BA:1238:G:N2	35:BA:1239:G:H1'	2.19	0.58
35:BA:1491:G:C6	35:BA:1500:G:C2	2.92	0.58
35:BA:1642:G:O2'	35:BA:1643:G:H5'	2.03	0.58
35:BA:2443:C:H6	35:BA:2443:C:H3'	1.69	0.58
35:BA:2563:U:H1'	35:BA:2566:A:N6	2.19	0.58
35:BA:2680:C:OP2	39:BE:111:ARG:NH2	2.36	0.58
35:BA:2739:U:H5	35:BA:2763:G:C5	2.21	0.58
40:BF:154:VAL:HG12	40:BF:193:VAL:HG23	1.84	0.58
40:BF:165:ARG:HA	40:BF:168:ARG:NH2	2.19	0.58
41:BG:25:TYR:CE2	41:BG:32:PRO:CD	2.86	0.58
42:BH:33:LEU:HD21	42:BH:136:ILE:CG2	2.32	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:67:LEU:CD2	42:BH:71:LEU:HD12	2.34	0.58
49:BR:42:LYS:O	49:BR:45:ARG:HG2	2.03	0.58
52:BU:13:LYS:HD3	52:BU:13:LYS:N	2.17	0.58
53:BV:39:LEU:HB3	53:BV:47:VAL:CG2	2.27	0.58
57:BZ:110:GLY:O	57:BZ:115:GLY:HA2	2.04	0.58
1:AA:357:G:OP1	1:AA:367:U:H2'	2.04	0.58
1:AA:452:A:H62	1:AA:480:U:H3	1.51	0.58
1:AA:586:C:O3'	8:AH:89:PRO:HB2	2.04	0.58
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.37	0.58
1:AA:1513:A:O2'	1:AA:1514:C:H5'	2.03	0.58
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.86	0.58
2:AB:67:THR:CG2	2:AB:90:MET:HE1	2.33	0.58
2:AB:155:LEU:CD1	2:AB:157:ARG:O	2.51	0.58
3:AC:43:LEU:C	3:AC:45:LYS:N	2.57	0.58
6:AF:4:TYR:HD1	6:AF:92:LYS:HA	1.69	0.58
7:AG:42:ILE:HG22	7:AG:43:PHE:N	2.18	0.58
9:AI:77:ILE:C	9:AI:79:LEU:H	2.12	0.58
13:AM:120:LYS:HE3	13:AM:120:LYS:HA	1.84	0.58
24:AY:207:VAL:O	24:AY:208:LYS:C	2.47	0.58
24:AY:227:LEU:O	24:AY:231:LEU:HB3	2.04	0.58
35:BA:201:C:H2'	35:BA:202:U:C5'	2.34	0.58
35:BA:341:G:H2'	35:BA:342:G:O4'	2.03	0.58
35:BA:848:G:H5'	35:BA:848:G:H8	1.68	0.58
35:BA:931:G:N2	35:BA:933:A:N7	2.51	0.58
35:BA:977:G:C6	35:BA:987:G:C6	2.92	0.58
35:BA:1228:G:N2	35:BA:1229:G:H1'	2.19	0.58
35:BA:1270:C:O4'	35:BA:1325:G:C6	2.56	0.58
35:BA:1556:C:O2'	35:BA:1557:C:H5'	2.04	0.58
35:BA:1651:G:H5'	49:BR:39:PRO:HG2	1.86	0.58
35:BA:1859:A:N6	35:BA:1883:G:H1'	2.19	0.58
35:BA:2307:G:N2	35:BA:2308:G:H5''	2.18	0.58
35:BA:2394:C:OP1	47:BP:63:PRO:CG	2.51	0.58
35:BA:2406:U:N3	47:BP:72:PRO:HB2	2.18	0.58
35:BA:2459:A:N1	35:BA:2494:G:N3	2.51	0.58
36:BB:47:C:H5'	36:BB:48:A:OP2	2.04	0.58
40:BF:20:LEU:O	40:BF:24:LEU:HD23	2.03	0.58
42:BH:83:TYR:CB	42:BH:135:GLY:H	2.16	0.58
45:BN:2:LYS:NZ	52:BU:95:LEU:CD2	2.65	0.58
47:BP:7:ARG:HB3	47:BP:8:PRO:CD	2.33	0.58
47:BP:112:LEU:HD22	47:BP:113:LYS:H	1.67	0.58
47:BP:113:LYS:CE	47:BP:131:SER:HB3	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:125:LEU:N	48:BQ:125:LEU:HD22	2.17	0.58
48:BQ:141:GLN:OXT	57:BZ:53:ILE:HB	2.04	0.58
51:BT:64:ARG:NH1	51:BT:103:ARG:HA	2.19	0.58
53:BV:33:VAL:O	53:BV:58:VAL:HG13	2.04	0.58
53:BV:96:ILE:H	53:BV:96:ILE:CD1	1.92	0.58
54:BW:36:LEU:HD12	54:BW:48:ALA:HB2	1.86	0.58
57:BZ:123:ASP:O	57:BZ:124:ILE:HG12	2.03	0.58
57:BZ:151:HIS:CG	57:BZ:170:THR:HA	2.38	0.58
1:AA:8:A:C5	4:AD:209:ARG:HB3	2.39	0.58
1:AA:80:G:H5''	1:AA:81:U:C5	2.38	0.58
1:AA:114:U:H2'	1:AA:115:G:C8	2.38	0.58
1:AA:702:A:H61	35:BA:1846:G:C5'	2.14	0.58
1:AA:833:U:C2	1:AA:834:C:C5	2.91	0.58
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.04	0.58
1:AA:1152:A:C6	1:AA:1153:C:N4	2.72	0.58
2:AB:8:LYS:HE2	2:AB:217:ARG:NH2	2.19	0.58
2:AB:95:GLN:O	2:AB:96:ARG:HD2	2.04	0.58
5:AE:50:GLU:HG3	5:AE:52:PRO:CD	2.12	0.58
10:AJ:5:ARG:HG2	10:AJ:71:LEU:CD1	2.30	0.58
10:AJ:40:LEU:HB3	10:AJ:41:PRO:HD2	1.85	0.58
17:AQ:52:LYS:O	17:AQ:55:ASP:OD2	2.22	0.58
20:AT:39:LYS:O	20:AT:43:LEU:HG	2.04	0.58
22:AV:14:A:C2	22:AV:15:G:H1'	2.39	0.58
22:AV:15:G:O6	22:AV:48:C:O2	2.22	0.58
27:B2:35:LEU:HD13	27:B2:35:LEU:C	2.29	0.58
32:B7:22:MET:HE2	35:BA:118:A:OP1	2.04	0.58
33:B8:12:LYS:CD	47:BP:68:GLN:HG3	2.32	0.58
33:B8:50:LEU:O	33:B8:51:ALA:HB2	2.03	0.58
34:B9:16:VAL:HG11	35:BA:1032:A:O3'	2.04	0.58
35:BA:9:U:O2'	35:BA:10:G:H8	1.87	0.58
35:BA:335:C:OP1	35:BA:335:C:H6	1.87	0.58
35:BA:1202:C:H2'	35:BA:1203:G:H5'	1.86	0.58
35:BA:1328:G:H2'	35:BA:1330:C:C5	2.39	0.58
35:BA:1697:G:H5''	35:BA:1979:C:OP1	2.04	0.58
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.39	0.58
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.68	0.58
35:BA:2046:G:H2'	35:BA:2047:U:C6	2.38	0.58
35:BA:2091:U:H3	35:BA:2228:G:H1	1.52	0.58
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.85	0.58
35:BA:2389:G:H5''	35:BA:2390:U:C4'	2.34	0.58
35:BA:2619:C:H5'	39:BE:150:VAL:O	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2722:G:O2'	49:BR:5:LYS:CB	2.52	0.58
36:BB:57:A:H2	36:BB:58:A:C4	2.22	0.58
37:BC:37:PHE:HZ	37:BC:217:THR:HG21	1.68	0.58
38:BD:169:GLU:O	38:BD:170:GLY:C	2.47	0.58
40:BF:5:ALA:HB2	40:BF:24:LEU:CD1	2.28	0.58
41:BG:76:SER:HA	41:BG:83:ARG:HA	1.85	0.58
42:BH:106:THR:HG21	42:BH:112:PRO:C	2.29	0.58
44:BK:86:UNK:O	44:BK:87:UNK:CB	2.51	0.58
45:BN:18:ALA:HB3	45:BN:26:LEU:CD2	2.34	0.58
45:BN:27:ALA:O	45:BN:30:ILE:N	2.36	0.58
46:BO:76:ALA:HB3	51:BT:75:ILE:HD13	1.85	0.58
46:BO:120:GLU:HB2	51:BT:68:TYR:HE2	1.68	0.58
50:BS:29:PHE:HE1	50:BS:31:SER:CB	2.04	0.58
57:BZ:63:ASP:HB3	57:BZ:65:GLN:HE21	1.68	0.58
1:AA:279:A:H2'	17:AQ:95:TYR:CE1	2.39	0.58
1:AA:750:G:O2'	15:AO:21:ASP:HB2	2.04	0.58
1:AA:974:A:C8	1:AA:974:A:OP1	2.56	0.58
1:AA:1206:G:H4'	3:AC:192:THR:O	2.03	0.58
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.86	0.58
1:AA:1300:G:C5	1:AA:1334:G:N7	2.71	0.58
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	2.03	0.58
1:AA:1372:U:H5''	9:AI:71:SER:HB2	1.84	0.58
2:AB:157:ARG:CB	2:AB:157:ARG:NH1	2.67	0.58
3:AC:206:GLU:O	3:AC:207:VAL:O	2.22	0.58
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.69	0.58
6:AF:22:GLU:HA	6:AF:22:GLU:OE1	2.03	0.58
10:AJ:24:VAL:O	10:AJ:28:ARG:HG3	2.04	0.58
15:AO:24:SER:OG	15:AO:27:VAL:HG23	2.04	0.58
20:AT:48:LYS:O	20:AT:52:ALA:CB	2.52	0.58
24:AY:169:ILE:C	24:AY:170:THR:HG23	2.29	0.58
27:B2:19:VAL:CG1	27:B2:23:LYS:HE3	2.33	0.58
31:B6:11:LEU:HD21	31:B6:51:GLU:CG	2.32	0.58
35:BA:628:G:H2'	35:BA:629:G:H8	1.69	0.58
35:BA:761:A:H8	35:BA:761:A:O5'	1.86	0.58
35:BA:878:A:C2	35:BA:879:G:C8	2.91	0.58
35:BA:886:C:C4	35:BA:887:A:N7	2.72	0.58
35:BA:1794:U:H2'	35:BA:1795:C:H6	1.68	0.58
35:BA:1817:G:H2'	35:BA:1818:U:H5'	1.85	0.58
35:BA:1826:G:OP1	38:BD:224:ALA:HB2	2.04	0.58
35:BA:1976:U:O2'	35:BA:1977:A:C8	2.56	0.58
35:BA:2235:G:H2'	35:BA:2236:C:H6	1.69	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2304:G:C2	35:BA:2313:C:N3	2.71	0.58
35:BA:2580:U:C5	35:BA:2581:G:C5	2.92	0.58
35:BA:2744:G:H21	42:BH:143:GLN:NE2	2.02	0.58
35:BA:2839:G:H4'	49:BR:49:ASP:HB3	1.84	0.58
38:BD:226:MET:SD	38:BD:230:ASP:HB3	2.44	0.58
40:BF:24:LEU:O	40:BF:26:ALA:N	2.36	0.58
40:BF:64:ILE:HG23	40:BF:65:TRP:N	2.18	0.58
41:BG:142:PRO:C	41:BG:143:GLU:HG2	2.28	0.58
45:BN:121:LYS:O	45:BN:122:VAL:HG23	2.04	0.58
47:BP:68:GLN:N	47:BP:68:GLN:OE1	2.37	0.58
48:BQ:18:LYS:HG2	48:BQ:19:GLY:N	2.17	0.58
48:BQ:56:ARG:O	48:BQ:57:HIS:C	2.47	0.58
53:BV:57:VAL:HG22	53:BV:58:VAL:O	2.04	0.58
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG23	1.85	0.58
1:AA:580:U:H4'	15:AO:58:MET:HG3	1.85	0.57
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.39	0.57
1:AA:1312:G:H2'	1:AA:1313:U:H6	1.69	0.57
1:AA:1395:C:C4'	1:AA:1401:G:H21	2.17	0.57
2:AB:162:ILE:HG23	2:AB:184:VAL:HA	1.84	0.57
3:AC:136:GLN:O	3:AC:140:ARG:NH1	2.37	0.57
3:AC:172:ARG:NH2	3:AC:206:GLU:OE1	2.37	0.57
13:AM:18:ALA:O	13:AM:21:TYR:HB2	2.04	0.57
24:AY:76:GLN:HG3	24:AY:85:ASN:ND2	2.19	0.57
24:AY:86:LEU:HD12	24:AY:87:LEU:N	2.19	0.57
24:AY:114:ASP:OD2	24:AY:143:LYS:HG3	2.04	0.57
24:AY:309:PRO:HG2	24:AY:311:HIS:O	2.04	0.57
28:B3:17:LYS:HG2	35:BA:969:U:OP1	2.04	0.57
29:B4:14:ILE:HG13	29:B4:31:ILE:CG2	2.34	0.57
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.28	0.57
35:BA:68:G:C2	35:BA:69:C:C2	2.91	0.57
35:BA:150:C:O2'	35:BA:151:C:H5'	2.03	0.57
35:BA:152:G:H2'	35:BA:153:C:C6	2.39	0.57
35:BA:471:A:C2'	35:BA:472:A:H5''	2.31	0.57
35:BA:625:G:O6	47:BP:107:LYS:HD2	2.04	0.57
35:BA:751:A:C6	35:BA:789:A:C5	2.91	0.57
35:BA:1070:A:N6	44:BK:8:UNK:HA	2.18	0.57
35:BA:2222:G:O4'	38:BD:149:PRO:HG3	2.04	0.57
35:BA:2307:G:N2	35:BA:2308:G:C5'	2.67	0.57
35:BA:2582:G:OP2	35:BA:2583:G:OP2	2.21	0.57
35:BA:2830:G:OP1	39:BE:75:VAL:HG13	2.04	0.57
35:BA:2837:G:H8	35:BA:2837:G:O5'	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:74:VAL:HA	37:BC:112:ALA:HB3	1.85	0.57
38:BD:80:ALA:CB	38:BD:94:LEU:CD1	2.82	0.57
40:BF:7:TYR:CD2	40:BF:16:GLY:CA	2.87	0.57
40:BF:110:LEU:HD22	40:BF:183:VAL:HG13	1.85	0.57
40:BF:126:VAL:CG1	40:BF:142:TRP:HH2	2.00	0.57
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.16	0.57
41:BG:36:LYS:HE2	41:BG:38:VAL:CG2	2.34	0.57
41:BG:107:LEU:HD11	41:BG:178:PHE:HE1	1.69	0.57
42:BH:27:LYS:HG2	42:BH:32:GLU:CG	2.31	0.57
42:BH:66:GLY:O	42:BH:69:ARG:HB2	2.04	0.57
42:BH:103:LEU:O	42:BH:105:LEU:HD22	2.04	0.57
47:BP:100:LEU:H	47:BP:100:LEU:HD22	1.69	0.57
47:BP:125:VAL:O	47:BP:125:VAL:HG13	2.04	0.57
49:BR:33:ARG:O	49:BR:34:ILE:HD13	2.04	0.57
49:BR:104:ARG:HD3	49:BR:107:ASP:OD1	2.04	0.57
50:BS:101:LEU:O	50:BS:101:LEU:HG	2.03	0.57
51:BT:10:VAL:O	51:BT:13:ARG:HG2	2.03	0.57
52:BU:66:ASN:ND2	52:BU:70:ARG:HG3	2.19	0.57
52:BU:69:CYS:HB2	52:BU:74:LEU:HD12	1.85	0.57
52:BU:99:ALA:HB2	52:BU:106:PHE:CZ	2.38	0.57
1:AA:559:A:H4'	1:AA:560:U:H5''	1.86	0.57
2:AB:46:LYS:O	2:AB:47:THR:C	2.47	0.57
2:AB:201:ILE:O	2:AB:202:PRO:O	2.21	0.57
6:AF:25:ILE:HG23	6:AF:26:ILE:N	2.18	0.57
6:AF:46:ARG:HB2	6:AF:60:PHE:HE1	1.69	0.57
10:AJ:91:PRO:C	10:AJ:93:GLY:N	2.59	0.57
16:AP:7:ALA:HA	16:AP:28:ARG:HG3	1.86	0.57
24:AY:78:PRO:CA	24:AY:83:LEU:HA	2.34	0.57
24:AY:189:GLU:HA	24:AY:208:LYS:HA	1.86	0.57
24:AY:412:LEU:O	24:AY:414:LYS:N	2.37	0.57
24:AY:526:THR:OG1	24:AY:527:ARG:N	2.37	0.57
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
35:BA:252:G:O2'	35:BA:253:C:H5'	2.04	0.57
35:BA:456:C:O2'	55:BX:68:ARG:NH1	2.37	0.57
35:BA:578:A:OP1	35:BA:1255:U:O2'	2.20	0.57
35:BA:852:G:C5	35:BA:926:A:C2	2.92	0.57
35:BA:1495:A:H3'	35:BA:1496:A:H2	1.67	0.57
35:BA:1519:G:H5'	35:BA:1520:G:P	2.43	0.57
35:BA:1818:U:O2'	38:BD:155:LEU:HA	2.04	0.57
35:BA:2095:C:H2'	35:BA:2096:U:C6	2.39	0.57
35:BA:2152:G:C2'	35:BA:2153:G:H5'	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2290:G:O2'	35:BA:2291:U:H5'	2.04	0.57
35:BA:2393:A:C4	35:BA:2394:C:C5	2.92	0.57
35:BA:2514:U:H2'	35:BA:2515:C:O4'	2.03	0.57
35:BA:2724:C:H2'	35:BA:2725:A:C8	2.39	0.57
35:BA:2792:G:O2'	35:BA:2793:G:H5'	2.03	0.57
35:BA:2821:A:P	39:BE:110:GLY:H	2.24	0.57
37:BC:103:ILE:HG22	37:BC:103:ILE:O	2.04	0.57
38:BD:43:ARG:HH11	38:BD:49:ILE:CD1	2.16	0.57
38:BD:108:PRO:CB	38:BD:143:HIS:CE1	2.82	0.57
39:BE:4:ILE:CG2	39:BE:96:PHE:HE2	2.14	0.57
39:BE:167:VAL:O	39:BE:167:VAL:HG13	2.03	0.57
40:BF:10:PRO:HD2	40:BF:13:SER:O	2.04	0.57
41:BG:52:ILE:H	41:BG:52:ILE:CD1	2.08	0.57
41:BG:64:THR:CG2	41:BG:65:GLY:H	2.16	0.57
41:BG:178:PHE:HB3	41:BG:180:PHE:CE1	2.38	0.57
48:BQ:12:GLN:CG	48:BQ:73:PRO:HD2	2.29	0.57
52:BU:13:LYS:H	52:BU:13:LYS:CD	2.16	0.57
1:AA:471:G:H8	1:AA:471:G:O5'	1.86	0.57
1:AA:517:G:H4'	1:AA:519:C:C5	2.39	0.57
1:AA:774:G:N2	1:AA:775:G:H1'	2.18	0.57
5:AE:64:ARG:O	5:AE:65:ASN:HB2	2.04	0.57
6:AF:10:LEU:O	6:AF:11:ASN:C	2.45	0.57
8:AH:14:ARG:NE	8:AH:83:ILE:CG2	2.67	0.57
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.38	0.57
24:AY:74:VAL:HG11	24:AY:317:PHE:HE2	1.68	0.57
24:AY:138:LEU:HD23	24:AY:253:PRO:HG2	1.83	0.57
24:AY:264:GLY:HA2	24:AY:267:HIS:CE1	2.39	0.57
25:B0:43:THR:O	25:B0:43:THR:CG2	2.53	0.57
25:B0:53:MET:HA	25:B0:58:THR:O	2.04	0.57
27:B2:25:VAL:CG2	27:B2:60:LEU:HB3	2.35	0.57
31:B6:35:GLU:HB3	31:B6:51:GLU:HB2	1.87	0.57
35:BA:154:G:H2'	35:BA:154(A):C:H6	1.68	0.57
35:BA:332:A:O2'	35:BA:333:G:O5'	2.23	0.57
35:BA:527:C:O5'	35:BA:2779:U:C5	2.57	0.57
35:BA:650:C:H5'	35:BA:651:G:OP2	2.04	0.57
35:BA:884:C:C2'	35:BA:885:C:H5''	2.33	0.57
35:BA:943:U:OP2	47:BP:38:GLN:HB3	2.04	0.57
35:BA:1894:C:C2'	35:BA:1895:C:H5''	2.34	0.57
35:BA:2072:G:H8	35:BA:2072:G:O5'	1.87	0.57
35:BA:2281:C:H4'	35:BA:2389:G:H21	1.69	0.57
35:BA:2703:C:H2'	35:BA:2703:C:O2	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2758:A:O2'	35:BA:2759:G:O4'	2.22	0.57
35:BA:2818:G:H4'	35:BA:2837:G:O4'	2.04	0.57
37:BC:117:PRO:HG3	37:BC:145:VAL:HG12	1.85	0.57
38:BD:134:ARG:HG2	38:BD:135:PHE:N	2.19	0.57
38:BD:206:LEU:HB2	38:BD:211:ARG:HG2	1.85	0.57
39:BE:9:VAL:HG13	39:BE:10:GLY:N	2.19	0.57
39:BE:119:ARG:HD3	39:BE:120:TRP:NE1	2.19	0.57
40:BF:132:VAL:HG22	40:BF:133:ASN:HD22	1.70	0.57
40:BF:141:ALA:C	40:BF:143:ALA:H	2.10	0.57
40:BF:183:VAL:O	40:BF:187:VAL:HG23	2.04	0.57
42:BH:20:ALA:HB3	42:BH:23:ARG:O	2.04	0.57
42:BH:54:ARG:HD3	42:BH:57:ASP:OD2	2.05	0.57
42:BH:107:VAL:HG21	42:BH:152:ARG:HG2	1.85	0.57
45:BN:56:ASN:N	45:BN:125:GLY:H	2.01	0.57
46:BO:19:ILE:CG2	46:BO:43:VAL:HA	2.25	0.57
51:BT:51:ARG:O	51:BT:61:PHE:HA	2.04	0.57
52:BU:35:ALA:O	52:BU:38:THR:N	2.38	0.57
52:BU:112:ARG:NH1	52:BU:112:ARG:HG3	2.19	0.57
55:BX:55:ASN:HB2	55:BX:80:ILE:CD1	2.34	0.57
1:AA:538:G:H2'	1:AA:539:A:H8	1.69	0.57
1:AA:855:G:O2'	1:AA:856:C:H5'	2.05	0.57
1:AA:954:G:H4'	13:AM:120:LYS:CD	2.34	0.57
1:AA:1310:G:H2'	1:AA:1311:G:H8	1.66	0.57
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.84	0.57
1:AA:1444:C:O5'	1:AA:1444:C:H6	1.88	0.57
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.86	0.57
2:AB:47:THR:C	2:AB:51:LEU:HD12	2.29	0.57
3:AC:142:MET:HA	3:AC:145:GLY:O	2.03	0.57
7:AG:21:VAL:C	7:AG:23:VAL:N	2.62	0.57
11:AK:92:GLU:OE2	11:AK:95:ILE:HD12	2.05	0.57
11:AK:122:LYS:O	11:AK:126:ARG:HB2	2.04	0.57
15:AO:23:GLY:O	15:AO:27:VAL:HG21	2.05	0.57
18:AR:20:ALA:O	18:AR:21:LYS:C	2.47	0.57
21:AU:18:TYR:N	21:AU:18:TYR:CD1	2.71	0.57
22:AV:27:U:C2'	22:AV:28:C:H5'	2.33	0.57
24:AY:113:ILE:CG2	24:AY:118:GLY:HA2	2.34	0.57
24:AY:412:LEU:C	24:AY:414:LYS:N	2.59	0.57
26:B1:50:ARG:HD3	26:B1:57:GLU:OE2	2.04	0.57
30:B5:41:PRO:HD3	54:BW:38:TYR:CZ	2.39	0.57
33:B8:28:GLY:C	33:B8:32:LEU:HG	2.30	0.57
35:BA:56:A:H2'	35:BA:57:C:C6	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:145:G:H2'	35:BA:146:G:H5''	1.85	0.57
35:BA:571:A:H1'	35:BA:573:G:C8	2.39	0.57
35:BA:915:C:N4	35:BA:916:G:C6	2.72	0.57
35:BA:1335:U:OP1	55:BX:65:ARG:NH2	2.37	0.57
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.58	0.57
35:BA:1663:C:O2'	35:BA:1664:A:H8	1.87	0.57
35:BA:1666:G:C8	35:BA:1667:G:N7	2.72	0.57
35:BA:1712:C:H2'	35:BA:1713:U:H5'	1.87	0.57
35:BA:2051:A:H5''	35:BA:2578:G:O5'	2.04	0.57
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.86	0.57
38:BD:17:THR:N	38:BD:205:VAL:O	2.37	0.57
39:BE:116:VAL:O	39:BE:117:MET:CB	2.51	0.57
39:BE:171:GLU:C	39:BE:173:VAL:N	2.62	0.57
41:BG:56:ALA:HA	41:BG:153:ARG:NH2	2.15	0.57
46:BO:5:GLN:HE21	46:BO:20:MET:HE2	1.69	0.57
55:BX:12:VAL:HG12	55:BX:27:THR:O	2.04	0.57
1:AA:236:G:OP1	17:AQ:42:TYR:HE1	1.87	0.57
1:AA:357:G:H2'	1:AA:358:U:C6	2.38	0.57
1:AA:737:A:H1'	6:AF:73:ASN:OD1	2.04	0.57
1:AA:1405:G:H1'	1:AA:1519:A:H4'	1.87	0.57
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.85	0.57
2:AB:196:LEU:HD12	2:AB:197:VAL:CG2	2.33	0.57
5:AE:31:LEU:CD2	5:AE:43:LEU:HD11	2.34	0.57
5:AE:84:PHE:CD1	5:AE:133:TYR:HB3	2.40	0.57
15:AO:9:GLN:O	15:AO:13:GLN:HG2	2.03	0.57
22:AV:57:A:O2'	22:AV:58:A:C5'	2.53	0.57
24:AY:94:ASP:OD1	24:AY:442:GLY:O	2.23	0.57
24:AY:508:MET:C	24:AY:511:LEU:HB3	2.29	0.57
27:B2:54:LYS:HG2	35:BA:73:A:OP1	2.05	0.57
32:B7:34:ARG:NH2	35:BA:467:G:N7	2.51	0.57
32:B7:46:VAL:CG1	32:B7:47:ARG:H	2.12	0.57
35:BA:44:G:H2'	35:BA:215:G:N7	2.20	0.57
35:BA:48:G:H4'	35:BA:52:A:O4'	2.05	0.57
35:BA:66:C:C4	35:BA:67:U:C5	2.93	0.57
35:BA:390:A:H5'	35:BA:412:A:O4'	2.04	0.57
35:BA:586:A:C5'	40:BF:89:VAL:HG11	2.34	0.57
35:BA:591:C:H2'	35:BA:592:G:H8	1.68	0.57
35:BA:981:A:C8	35:BA:982:C:C5	2.92	0.57
35:BA:1296:G:H2'	35:BA:1297:C:C6	2.39	0.57
35:BA:1351:C:H4'	35:BA:1572:A:O4'	2.05	0.57
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.40	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2267:A:H5''	35:BA:2268:A:H5''	1.86	0.57
35:BA:2709:G:O2'	35:BA:2710:C:H5'	2.03	0.57
36:BB:66:A:N6	36:BB:108:U:C5	2.72	0.57
37:BC:161:ILE:HG21	37:BC:174:PRO:CG	2.35	0.57
38:BD:242:ARG:HG2	38:BD:246:PRO:HG3	1.85	0.57
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.69	0.57
40:BF:122:LYS:CB	40:BF:191:ARG:HG3	2.35	0.57
41:BG:36:LYS:HE2	41:BG:38:VAL:HG22	1.86	0.57
41:BG:151:ALA:HB3	41:BG:153:ARG:NH1	2.19	0.57
45:BN:74:ARG:NH2	45:BN:85:ILE:HD11	2.20	0.57
47:BP:83:VAL:O	47:BP:114:ILE:HD12	2.04	0.57
48:BQ:133:ARG:CB	48:BQ:133:ARG:NH1	2.66	0.57
52:BU:28:ARG:HD3	52:BU:38:THR:OG1	2.03	0.57
52:BU:92:ARG:O	52:BU:94:ASN:N	2.38	0.57
55:BX:8:ILE:H	55:BX:8:ILE:CD1	2.14	0.57
57:BZ:8:TYR:HB2	57:BZ:38:TYR:CE2	2.40	0.57
57:BZ:119:GLU:HG2	57:BZ:119:GLU:O	2.04	0.57
1:AA:47:C:C6	1:AA:365:U:H2'	2.39	0.57
1:AA:67:C:H3'	1:AA:67:C:C6	2.40	0.57
1:AA:398:C:C6	1:AA:398:C:C3'	2.86	0.57
1:AA:415:A:H2'	1:AA:416:G:H8	1.69	0.57
1:AA:837:G:C2	1:AA:850:U:O2	2.57	0.57
1:AA:880:C:O2'	1:AA:881:G:H5'	2.05	0.57
1:AA:1256:A:O4'	1:AA:1256:A:OP2	2.23	0.57
2:AB:157:ARG:HB3	2:AB:157:ARG:NH1	2.19	0.57
3:AC:70:VAL:C	3:AC:106:VAL:HG23	2.30	0.57
3:AC:96:GLY:O	3:AC:97:LYS:HG2	2.04	0.57
3:AC:121:ALA:HB2	3:AC:187:ALA:HB1	1.85	0.57
4:AD:5:ILE:H	4:AD:115:ARG:HH12	1.52	0.57
4:AD:170:VAL:HG21	4:AD:176:LEU:HB2	1.87	0.57
5:AE:34:VAL:O	5:AE:41:VAL:HA	2.04	0.57
5:AE:80:ILE:HG13	5:AE:81:GLU:N	2.20	0.57
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.20	0.57
9:AI:53:VAL:HG13	9:AI:95:LYS:HZ1	1.68	0.57
12:AL:41:ARG:HG2	12:AL:42:THR:O	2.03	0.57
12:AL:69:TYR:CE1	12:AL:71:PRO:HA	2.38	0.57
12:AL:88:GLY:H	12:AL:98:TYR:HA	1.68	0.57
13:AM:54:VAL:HG12	13:AM:58:GLU:CD	2.30	0.57
17:AQ:69:LYS:C	17:AQ:70:ARG:HD2	2.29	0.57
18:AR:34:TYR:HD1	18:AR:35:ARG:HG3	1.68	0.57
20:AT:72:LEU:HD21	20:AT:80:ARG:HH21	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:246:PHE:CD2	24:AY:247:LEU:HD23	2.39	0.57
27:B2:24:LEU:HD22	27:B2:60:LEU:CD2	2.35	0.57
30:B5:39:MET:O	54:BW:38:TYR:HE2	1.88	0.57
33:B8:13:ARG:HH11	47:BP:61:ARG:CD	2.15	0.57
33:B8:17:THR:HG21	35:BA:650:C:O3'	2.04	0.57
35:BA:271(I):G:H2'	35:BA:271(J):C:H6	1.68	0.57
35:BA:603:A:O3'	47:BP:90:ARG:NH2	2.37	0.57
35:BA:845:G:O2'	35:BA:846:C:H5	1.87	0.57
35:BA:1309:G:O2'	35:BA:1310:G:H5'	2.04	0.57
35:BA:1666:G:H8	35:BA:1666:G:H5'	1.69	0.57
35:BA:1666:G:H3'	35:BA:1667:G:H8	1.69	0.57
35:BA:1789:A:H5''	38:BD:221:VAL:CA	2.32	0.57
35:BA:1834:U:H4'	35:BA:1969:A:C6	2.39	0.57
35:BA:1930:G:O2'	35:BA:1968:G:N1	2.32	0.57
35:BA:2281:C:H4'	35:BA:2389:G:N2	2.19	0.57
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.39	0.57
36:BB:53:A:C5	36:BB:54:G:N7	2.73	0.57
37:BC:66:HIS:CG	37:BC:184:LYS:HD2	2.39	0.57
38:BD:242:ARG:N	38:BD:242:ARG:CD	2.68	0.57
39:BE:63:LEU:O	39:BE:65:GLY:N	2.37	0.57
40:BF:33:LEU:HD11	40:BF:109:GLY:O	2.05	0.57
41:BG:39:ILE:HG13	41:BG:156:ASP:O	2.04	0.57
42:BH:12:PRO:CG	42:BH:15:VAL:HG13	2.34	0.57
42:BH:37:VAL:HG22	42:BH:72:ILE:HD13	1.85	0.57
45:BN:27:ALA:HA	45:BN:30:ILE:HB	1.87	0.57
45:BN:97:ARG:O	45:BN:99:LEU:N	2.37	0.57
46:BO:60:ALA:CB	46:BO:85:VAL:O	2.51	0.57
47:BP:6:LEU:HG	47:BP:9:ASN:CB	2.34	0.57
48:BQ:133:ARG:CG	48:BQ:134:ARG:N	2.61	0.57
51:BT:54:ARG:HA	51:BT:59:THR:CG2	2.34	0.57
52:BU:115:ALA:C	52:BU:117:GLN:N	2.59	0.57
53:BV:38:LEU:C	53:BV:39:LEU:HD22	2.30	0.57
56:BY:45:VAL:HA	56:BY:62:GLU:HB2	1.85	0.57
57:BZ:10:ARG:HB3	57:BZ:36:LYS:C	2.29	0.57
57:BZ:41:LEU:HD11	57:BZ:82:ARG:NH2	2.19	0.57
1:AA:357:G:H2'	1:AA:358:U:H6	1.69	0.57
1:AA:1113:C:C6	3:AC:178:LEU:HD23	2.40	0.57
1:AA:1152:A:H5'	10:AJ:70:ARG:HH21	1.70	0.57
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.70	0.57
4:AD:9:CYS:HB3	4:AD:32:ALA:HB3	1.86	0.57
9:AI:53:VAL:C	9:AI:55:ALA:H	2.10	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:117:HIS:HB2	9:AI:121:ARG:O	2.04	0.57
11:AK:103:LEU:N	11:AK:103:LEU:HD22	2.19	0.57
12:AL:34:ARG:O	12:AL:61:THR:HG23	2.04	0.57
12:AL:36:VAL:CG1	12:AL:82:VAL:HA	2.34	0.57
12:AL:91:LYS:O	12:AL:92:ASP:CB	2.49	0.57
13:AM:30:ALA:O	13:AM:33:ALA:N	2.37	0.57
13:AM:86:CYS:SG	13:AM:88:ARG:N	2.78	0.57
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.17	0.57
19:AS:58:VAL:O	19:AS:60:VAL:HG12	2.05	0.57
20:AT:19:SER:HA	20:AT:22:ARG:CD	2.34	0.57
22:AV:52:G:C2'	22:AV:53:G:H8	2.15	0.57
24:AY:10:VAL:O	24:AY:279:PRO:CD	2.52	0.57
24:AY:10:VAL:CG1	24:AY:291:ALA:HB1	2.33	0.57
24:AY:21:HIS:CD2	24:AY:122:ARG:N	2.59	0.57
24:AY:219:VAL:CG2	24:AY:224:ALA:HB2	2.32	0.57
24:AY:299:PHE:HE1	24:AY:387:PHE:CE1	2.23	0.57
30:B5:6:VAL:HG22	35:BA:2016:U:O2	2.04	0.57
34:B9:1:MET:HG3	34:B9:32:HIS:HA	1.85	0.57
35:BA:568:U:O4	35:BA:973:A:OP2	2.21	0.57
35:BA:783:A:C6	35:BA:785:G:C8	2.93	0.57
35:BA:2045:C:C2	35:BA:2624:G:N2	2.73	0.57
35:BA:2274:A:H5''	35:BA:2275:C:OP2	2.04	0.57
35:BA:2423:U:H5''	35:BA:2423:U:H6	1.69	0.57
35:BA:2781:A:H5'	35:BA:2782:G:O4'	2.05	0.57
35:BA:2850:A:H2	49:BR:61:HIS:CD2	2.22	0.57
38:BD:25:THR:HG22	38:BD:26:LYS:H	1.69	0.57
41:BG:166:ASP:O	41:BG:167:GLU:C	2.46	0.57
45:BN:3:THR:HG22	45:BN:4:TYR:N	2.20	0.57
47:BP:67:MET:O	47:BP:69:GLY:N	2.38	0.57
50:BS:87:PHE:CD1	50:BS:88:ASP:N	2.67	0.57
52:BU:27:LEU:O	52:BU:31:SER:N	2.27	0.57
52:BU:74:LEU:CD1	52:BU:79:PHE:HB2	2.34	0.57
56:BY:28:LYS:HG2	56:BY:39:VAL:N	2.19	0.57
56:BY:46:LYS:HG2	56:BY:47:LYS:H	1.70	0.57
1:AA:298:A:H2'	1:AA:299:G:O4'	2.03	0.57
1:AA:360:A:OP1	24:AY:411:GLN:NE2	2.37	0.57
1:AA:429:U:H2'	4:AD:25:ARG:NH1	2.19	0.57
1:AA:630:G:H5'	1:AA:631:G:OP2	2.04	0.57
1:AA:1202:G:C1'	14:AN:29:ARG:HD3	2.35	0.57
1:AA:1308:U:O2'	1:AA:1309:G:H5'	2.05	0.57
1:AA:1351:U:C2	1:AA:1352:C:H5	2.23	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1497:G:H2'	1:AA:1498:U:C5'	2.35	0.57
2:AB:45:GLN:HG2	2:AB:46:LYS:N	2.19	0.57
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.87	0.57
4:AD:11:LEU:N	4:AD:11:LEU:HD23	2.20	0.57
4:AD:147:ALA:HA	4:AD:182:LYS:HA	1.87	0.57
7:AG:122:HIS:O	7:AG:125:MET:HB2	2.05	0.57
7:AG:137:LYS:O	7:AG:141:VAL:HG23	2.05	0.57
10:AJ:18:ALA:C	10:AJ:20:ALA:H	2.13	0.57
13:AM:13:LYS:O	13:AM:14:ARG:C	2.48	0.57
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	2.20	0.57
22:AV:49:G:C2	22:AV:50:U:C6	2.93	0.57
24:AY:324:LYS:HG3	24:AY:360:TYR:CG	2.40	0.57
24:AY:419:LEU:HD21	24:AY:424:ALA:HB3	1.87	0.57
26:B1:80:LEU:HD22	26:B1:82:LEU:CD2	2.34	0.57
30:B5:45:VAL:HG12	30:B5:50:GLY:HA2	1.86	0.57
35:BA:556:G:C6	35:BA:557:U:C4	2.93	0.57
35:BA:603:A:N3	35:BA:604:G:H1'	2.20	0.57
35:BA:744:G:OP1	39:BE:132:HIS:HB3	2.03	0.57
35:BA:1020:A:H5'	35:BA:1021:A:N3	2.20	0.57
35:BA:1297:C:H2'	35:BA:1298:C:C6	2.39	0.57
35:BA:2241:A:O2'	35:BA:2242:G:H5'	2.04	0.57
35:BA:2459:A:N7	35:BA:2460:U:C4	2.72	0.57
35:BA:2493:U:H6	35:BA:2493:U:O5'	1.88	0.57
35:BA:2532:G:H2'	35:BA:2533:A:O4'	2.05	0.57
35:BA:2599:G:H2'	35:BA:2600:A:H8	1.70	0.57
35:BA:2753:A:O2'	35:BA:2754:U:H5'	2.04	0.57
36:BB:57:A:N7	41:BG:29:TRP:CD1	2.72	0.57
37:BC:59:ARG:CZ	37:BC:164:ARG:HD2	2.35	0.57
37:BC:78:ALA:HB1	37:BC:82:LYS:O	2.04	0.57
38:BD:28:GLU:N	38:BD:29:PRO:CD	2.67	0.57
38:BD:31:LYS:O	38:BD:35:LYS:HB3	2.05	0.57
38:BD:186:HIS:ND1	38:BD:187:GLY:N	2.52	0.57
38:BD:229:VAL:CG1	38:BD:230:ASP:N	2.65	0.57
40:BF:51:THR:OG1	40:BF:88:VAL:HG11	2.04	0.57
41:BG:99:MET:HG2	41:BG:103:LEU:HD12	1.87	0.57
42:BH:59:ARG:HH11	42:BH:59:ARG:CB	2.17	0.57
45:BN:10:GLU:OE2	45:BN:11:PRO:HD2	2.04	0.57
45:BN:27:ALA:O	45:BN:30:ILE:HB	2.05	0.57
45:BN:76:SER:OG	45:BN:77:GLY:N	2.38	0.57
45:BN:95:PRO:O	45:BN:98:VAL:CG2	2.52	0.57
48:BQ:31:ASP:C	48:BQ:32:TYR:CD1	2.83	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:19:LEU:HD12	51:BT:78:LEU:HD23	1.86	0.57
51:BT:60:THR:HG22	51:BT:77:PRO:CA	2.25	0.57
53:BV:12:TYR:HE2	53:BV:22:VAL:HG12	1.69	0.57
54:BW:4:LYS:CA	54:BW:106:ILE:HG22	2.29	0.57
54:BW:6:ILE:HG12	54:BW:104:THR:HG22	1.87	0.57
1:AA:109:A:H5'	1:AA:110:C:C5	2.40	0.57
1:AA:528:C:H41	12:AL:49:ASN:ND2	2.03	0.57
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.40	0.57
1:AA:1283:G:O2'	1:AA:1284:C:P	2.63	0.57
1:AA:1368:G:OP2	9:AI:112:LYS:CD	2.53	0.57
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.35	0.57
2:AB:163:PHE:HD1	2:AB:185:ILE:HB	1.69	0.57
2:AB:170:GLU:C	2:AB:172:ILE:H	2.13	0.57
2:AB:228:GLY:O	2:AB:229:VAL:O	2.23	0.57
3:AC:11:ARG:HE	3:AC:180:ALA:HB3	1.69	0.57
8:AH:33:GLU:O	8:AH:34:GLU:C	2.48	0.57
8:AH:121:ASP:OD1	8:AH:122:ARG:N	2.38	0.57
14:AN:45:ARG:O	14:AN:49:HIS:CD2	2.57	0.57
17:AQ:27:PHE:O	17:AQ:36:ILE:HG13	2.04	0.57
22:AV:27:U:C2'	22:AV:28:C:C5'	2.82	0.57
24:AY:303:ILE:HA	24:AY:316:ALA:HA	1.87	0.57
24:AY:305:ALA:HA	24:AY:422:GLU:CD	2.29	0.57
30:B5:25:LEU:CD1	54:BW:19:LEU:O	2.52	0.57
35:BA:74:A:O2'	35:BA:75:G:OP2	2.20	0.57
35:BA:219:G:C6	35:BA:220:G:C6	2.93	0.57
35:BA:484:C:P	56:BY:49:VAL:HG22	2.45	0.57
35:BA:579:G:H1'	35:BA:2017:U:N3	2.18	0.57
35:BA:631:A:H4'	47:BP:65:ARG:HD3	1.85	0.57
35:BA:783:A:N3	35:BA:785:G:H1'	2.20	0.57
35:BA:900:A:N3	35:BA:900:A:H2'	2.20	0.57
35:BA:950:G:C2	35:BA:951:C:C2	2.93	0.57
35:BA:1814:G:O3'	38:BD:54:ARG:NH2	2.37	0.57
35:BA:2629:A:OP2	35:BA:2629:A:H3'	2.04	0.57
35:BA:2673:G:O2'	35:BA:2674:G:H5'	2.05	0.57
35:BA:2711:A:OP1	35:BA:2712(A):A:P	2.61	0.57
35:BA:2739:U:C5	35:BA:2763:G:C5	2.93	0.57
35:BA:2791:C:N4	35:BA:2801(A):A:H62	2.03	0.57
37:BC:21:THR:HA	37:BC:225:ASN:HB2	1.86	0.57
37:BC:175:VAL:HG13	37:BC:188:ASN:CB	2.34	0.57
37:BC:175:VAL:HG22	37:BC:189:ILE:HA	1.85	0.57
38:BD:117:VAL:HG13	38:BD:118:VAL:N	2.18	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:229:VAL:CG1	38:BD:230:ASP:H	2.17	0.57
39:BE:195:LEU:HD11	39:BE:197:ILE:HG22	1.86	0.57
40:BF:2:LYS:HG3	40:BF:25:PRO:CG	2.35	0.57
41:BG:110:ALA:HB1	41:BG:140:ILE:HD13	1.86	0.57
45:BN:52:VAL:CG1	45:BN:53:VAL:H	2.17	0.57
47:BP:9:ASN:N	47:BP:10:PRO:HD2	2.14	0.57
48:BQ:31:ASP:HB3	48:BQ:32:TYR:CE1	2.39	0.57
52:BU:13:LYS:O	52:BU:17:ILE:CD1	2.53	0.57
54:BW:69:LEU:HD22	54:BW:107:LEU:HB2	1.87	0.57
1:AA:706:A:O4'	11:AK:29:ILE:HD11	2.05	0.57
1:AA:728:A:N6	15:AO:51:HIS:HD2	2.03	0.57
1:AA:754:C:O2'	15:AO:66:LEU:HD23	2.04	0.57
1:AA:986:A:H1'	19:AS:54:GLY:O	2.05	0.57
1:AA:1031:G:H2'	1:AA:1032:G:O4'	2.04	0.57
1:AA:1353:G:C6	1:AA:1354:C:N4	2.73	0.57
1:AA:1423:G:OP1	46:BO:48:PRO:HB3	2.05	0.57
2:AB:67:THR:CA	2:AB:90:MET:HE1	2.35	0.57
2:AB:181:PHE:CE1	8:AH:70:GLN:HB3	2.39	0.57
2:AB:223:ILE:HG21	2:AB:230:VAL:HG22	1.87	0.57
3:AC:52:LEU:HB2	3:AC:69:HIS:O	2.04	0.57
3:AC:124:ILE:HG12	3:AC:130:VAL:HG22	1.87	0.57
4:AD:89:THR:O	4:AD:93:PHE:N	2.38	0.57
4:AD:98:GLU:C	4:AD:100:ARG:H	2.13	0.57
5:AE:41:VAL:HG11	5:AE:113:ALA:HA	1.86	0.57
8:AH:106:GLY:C	8:AH:108:GLY:H	2.13	0.57
13:AM:16:ASP:HB2	13:AM:31:LYS:HG2	1.87	0.57
24:AY:97:GLU:HB3	24:AY:392:ASN:ND2	2.19	0.57
24:AY:103:LEU:HD12	24:AY:103:LEU:N	2.18	0.57
24:AY:103:LEU:HD23	24:AY:109:CYS:SG	2.45	0.57
35:BA:134:C:C2	35:BA:135:G:C8	2.93	0.57
35:BA:322:A:H5'	35:BA:340:A:C1'	2.35	0.57
35:BA:601:C:C5'	40:BF:108:LYS:HZ1	2.18	0.57
35:BA:729:G:H5'	35:BA:730:C:H5''	1.86	0.57
35:BA:871:U:O2	35:BA:871:U:H2'	2.04	0.57
35:BA:914:C:H2'	35:BA:915:C:C5'	2.17	0.57
35:BA:1060:U:C4'	35:BA:1061:U:H5	2.17	0.57
35:BA:1661:G:H2'	35:BA:1662:C:C6	2.36	0.57
35:BA:1667:G:H22	35:BA:1991:U:H3'	1.69	0.57
35:BA:1676:A:C6	35:BA:1677:A:C6	2.93	0.57
35:BA:1925:C:C3'	35:BA:1926:U:H5''	2.28	0.57
35:BA:1971:A:C8	38:BD:241:PRO:CB	2.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2712:U:OP1	35:BA:2714:G:O2'	2.20	0.57
35:BA:2880:C:O3'	49:BR:90:ARG:NH1	2.38	0.57
36:BB:101:G:H2'	36:BB:102:A:H8	1.68	0.57
37:BC:44:HIS:HA	37:BC:171:ILE:O	2.05	0.57
38:BD:65:ILE:HD11	38:BD:88:ARG:HH11	1.70	0.57
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.30	0.57
40:BF:116:ASP:O	40:BF:120:GLU:HG2	2.05	0.57
41:BG:166:ASP:O	41:BG:168:GLU:N	2.38	0.57
47:BP:31:ALA:O	47:BP:33:ARG:N	2.31	0.57
47:BP:40:SER:OG	47:BP:45:LEU:HD21	2.04	0.57
48:BQ:65:PHE:HD2	48:BQ:105:GLU:O	1.88	0.57
54:BW:5:ALA:O	54:BW:6:ILE:HB	2.04	0.57
54:BW:12:ILE:HG13	54:BW:42:ARG:NH1	2.19	0.57
54:BW:36:LEU:CD1	54:BW:48:ALA:HB2	2.35	0.57
56:BY:95:LYS:HA	56:BY:101:LYS:C	2.30	0.57
57:BZ:102:LEU:HB2	57:BZ:122:ARG:C	2.29	0.57
1:AA:79:G:H3'	1:AA:83:U:OP1	2.05	0.56
1:AA:730:G:O6	15:AO:51:HIS:HE1	1.88	0.56
1:AA:1389:C:O2'	1:AA:1390:U:H5'	2.04	0.56
2:AB:48:MET:O	2:AB:51:LEU:N	2.38	0.56
4:AD:58:LEU:CD1	4:AD:62:GLN:HG3	2.34	0.56
5:AE:33:VAL:CG2	5:AE:43:LEU:CD1	2.81	0.56
13:AM:107:ALA:O	13:AM:111:LYS:HD3	2.04	0.56
15:AO:36:ILE:HG12	15:AO:59:MET:CE	2.35	0.56
16:AP:50:LYS:O	16:AP:50:LYS:HE2	2.05	0.56
22:AV:40:C:H2'	22:AV:41:C:H6	1.70	0.56
24:AY:72:THR:HA	24:AY:89:THR:HA	1.87	0.56
24:AY:127:MET:O	24:AY:130:THR:HG22	2.05	0.56
24:AY:193:TYR:HB3	24:AY:263:PHE:CE1	2.37	0.56
28:B3:8:LEU:CD1	28:B3:30:ARG:O	2.53	0.56
33:B8:6:THR:HG22	33:B8:61:LEU:CD1	2.34	0.56
35:BA:639:U:O2'	35:BA:640:C:H5'	2.04	0.56
35:BA:747:U:C4	35:BA:2613:U:C5	2.93	0.56
35:BA:1060:U:C4'	35:BA:1061:U:C5	2.88	0.56
35:BA:1256:G:H2'	35:BA:1257:C:C6	2.40	0.56
35:BA:1665:A:H4'	46:BO:66:LYS:O	2.04	0.56
35:BA:1954:G:H22	35:BA:1986:A:P	2.28	0.56
35:BA:2020:A:C2	35:BA:2022:U:C6	2.92	0.56
35:BA:2057:A:H2'	35:BA:2058:A:H8	1.64	0.56
35:BA:2101:G:H2'	35:BA:2102:U:O4'	2.05	0.56
35:BA:2292:C:O2'	35:BA:2293:C:H5'	2.04	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2359:C:C2'	35:BA:2360:A:H5'	2.34	0.56
35:BA:2455:G:C6	35:BA:2456:C:N4	2.73	0.56
38:BD:31:LYS:O	38:BD:35:LYS:HB2	2.05	0.56
39:BE:74:PRO:O	39:BE:75:VAL:C	2.48	0.56
40:BF:119:ARG:NH2	40:BF:120:GLU:OE2	2.38	0.56
45:BN:10:GLU:CG	45:BN:11:PRO:HD2	2.35	0.56
46:BO:35:VAL:HG23	46:BO:65:THR:HG23	1.85	0.56
47:BP:16:ARG:HD3	47:BP:17:LYS:N	2.20	0.56
47:BP:121:LYS:O	47:BP:123:LEU:HD23	2.05	0.56
49:BR:47:PHE:O	49:BR:50:HIS:N	2.38	0.56
50:BS:89:ARG:HG2	50:BS:92:TYR:HA	1.87	0.56
50:BS:106:ARG:HD2	50:BS:106:ARG:C	2.30	0.56
51:BT:83:ILE:O	51:BT:84:GLN:C	2.48	0.56
51:BT:121:ILE:CA	51:BT:124:ASP:HB2	2.34	0.56
52:BU:65:ILE:CD1	52:BU:96:ALA:HB3	2.35	0.56
54:BW:66:GLU:C	54:BW:68:ARG:H	2.13	0.56
57:BZ:108:PRO:HG2	57:BZ:111:VAL:CG2	2.34	0.56
1:AA:232:G:C2	1:AA:233:C:C2	2.93	0.56
1:AA:458:C:N4	1:AA:474:G:N1	2.53	0.56
1:AA:628:G:O2'	1:AA:629:G:H5'	2.05	0.56
1:AA:680:C:H2'	1:AA:681:C:H6	1.69	0.56
1:AA:781:A:H2'	1:AA:782:A:H5'	1.86	0.56
1:AA:826:C:C4	1:AA:827:U:H5	2.21	0.56
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.39	0.56
3:AC:70:VAL:O	3:AC:106:VAL:HG23	2.04	0.56
3:AC:183:ASP:O	3:AC:202:ILE:N	2.33	0.56
5:AE:73:ASN:ND2	5:AE:73:ASN:O	2.38	0.56
7:AG:50:ILE:HD11	7:AG:121:ALA:CA	2.35	0.56
7:AG:52:GLU:O	7:AG:53:LYS:C	2.48	0.56
8:AH:2:LEU:CD2	8:AH:5:PRO:HA	2.35	0.56
8:AH:95:VAL:CG2	8:AH:133:LEU:HD13	2.35	0.56
9:AI:23:ASN:OD1	9:AI:24:GLY:N	2.38	0.56
12:AL:129:ALA:N	24:AY:487:ARG:NH1	2.54	0.56
15:AO:27:VAL:O	15:AO:30:ALA:CB	2.54	0.56
15:AO:60:VAL:HA	15:AO:63:ARG:HD2	1.87	0.56
24:AY:14:ARG:HD3	24:AY:276:ALA:HB1	1.85	0.56
29:B4:40:HIS:CG	29:B4:41:PRO:HA	2.40	0.56
32:B7:37:LYS:HZ3	32:B7:39:ARG:NH2	2.03	0.56
33:B8:7:HIS:ND1	33:B8:7:HIS:O	2.38	0.56
35:BA:482:A:H1'	35:BA:498:G:N2	2.20	0.56
35:BA:573:G:N2	35:BA:2029:G:N2	2.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:704:G:N3	35:BA:726:G:C2	2.73	0.56
35:BA:1092:C:OP2	35:BA:1093:G:N7	2.38	0.56
35:BA:1257:C:H4'	40:BF:83:PHE:CD1	2.39	0.56
35:BA:1322:A:OP1	54:BW:11:ARG:HG3	2.04	0.56
35:BA:1349:A:N6	35:BA:1598:C:H42	2.02	0.56
35:BA:1422:G:H2'	35:BA:1423:G:H8	1.70	0.56
35:BA:1478:G:C2	35:BA:1479:G:N7	2.72	0.56
35:BA:1508:A:N3	35:BA:1508:A:H2'	2.19	0.56
35:BA:1954:G:H21	35:BA:1956:U:H3	1.53	0.56
35:BA:2281:C:H2'	35:BA:2282:G:C8	2.40	0.56
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.04	0.56
35:BA:2578:G:O2'	35:BA:2579:C:H5'	2.05	0.56
36:BB:15:A:H1'	36:BB:110:G:C5	2.40	0.56
38:BD:79:VAL:HG23	38:BD:114:GLY:N	2.20	0.56
38:BD:126:GLN:O	38:BD:193:VAL:HG21	2.04	0.56
40:BF:33:LEU:HD21	40:BF:112:MET:HG2	1.87	0.56
40:BF:118:ALA:HA	40:BF:123:LEU:HB3	1.85	0.56
42:BH:105:LEU:HD22	42:BH:105:LEU:N	2.13	0.56
45:BN:62:VAL:HG11	45:BN:67:LEU:CD2	2.35	0.56
49:BR:27:SER:C	49:BR:30:THR:HG22	2.30	0.56
51:BT:77:PRO:O	51:BT:78:LEU:CB	2.52	0.56
53:BV:5:VAL:HG21	53:BV:35:LEU:CG	2.34	0.56
1:AA:162:A:C5	1:AA:163:C:H1'	2.40	0.56
1:AA:197:A:C6	1:AA:221:C:H4'	2.38	0.56
1:AA:244:U:H4'	1:AA:245:C:H5''	1.88	0.56
1:AA:402:G:O2'	1:AA:403:C:H5'	2.05	0.56
1:AA:404:U:C5'	4:AD:122:ARG:HD3	2.35	0.56
1:AA:507:C:OP1	1:AA:508:C:O3'	2.23	0.56
1:AA:796:C:H2'	1:AA:797:C:H6	1.70	0.56
1:AA:822:C:O2'	1:AA:823:G:H5'	2.04	0.56
1:AA:834:C:C4	1:AA:853:G:N1	2.73	0.56
1:AA:939:G:H1	1:AA:1344:C:H42	1.50	0.56
1:AA:956:U:C2'	1:AA:957:U:H5'	2.34	0.56
1:AA:1001(A):G:C8	1:AA:1002:G:C8	2.88	0.56
1:AA:1019:C:C2'	1:AA:1020:U:H5'	2.35	0.56
1:AA:1068:G:N2	1:AA:1069:C:C2	2.73	0.56
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.05	0.56
1:AA:1267:C:C2	21:AU:20:LYS:HD2	2.40	0.56
1:AA:1366:C:O2'	10:AJ:60:ARG:NH2	2.36	0.56
1:AA:1399:C:C2	1:AA:1502:A:N6	2.74	0.56
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.23	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:28:PHE:CD1	2:AB:28:PHE:O	2.58	0.56
2:AB:55:PHE:O	2:AB:56:ARG:C	2.49	0.56
2:AB:67:THR:HG22	2:AB:90:MET:HE1	1.88	0.56
4:AD:5:ILE:N	4:AD:115:ARG:HH12	2.02	0.56
6:AF:22:GLU:HA	6:AF:25:ILE:HG22	1.85	0.56
7:AG:99:LEU:HD23	7:AG:102:ARG:CZ	2.35	0.56
8:AH:32:LYS:O	8:AH:36:LEU:HG	2.05	0.56
9:AI:33:PHE:CZ	9:AI:43:ALA:HB1	2.36	0.56
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.40	0.56
11:AK:29:ILE:O	11:AK:29:ILE:HG12	2.05	0.56
11:AK:57:THR:HG22	11:AK:60:ALA:HB3	1.87	0.56
14:AN:50:LYS:C	14:AN:52:GLN:N	2.59	0.56
17:AQ:81:ARG:C	17:AQ:83:ASP:H	2.12	0.56
17:AQ:95:TYR:HD1	17:AQ:98:LEU:CD1	2.14	0.56
18:AR:84:LYS:HZ3	18:AR:84:LYS:N	2.03	0.56
20:AT:48:LYS:HD2	20:AT:51:GLU:OE2	2.05	0.56
22:AV:32:C:H2'	22:AV:33:U:C5'	2.34	0.56
24:AY:103:LEU:H	24:AY:103:LEU:CD1	2.17	0.56
24:AY:336:THR:O	24:AY:337:ALA:HB2	2.05	0.56
24:AY:403:LEU:N	24:AY:403:LEU:CD2	2.68	0.56
25:B0:26:TYR:N	25:B0:26:TYR:CD1	2.72	0.56
25:B0:51:VAL:HG21	25:B0:80:HIS:HA	1.86	0.56
28:B3:8:LEU:CD2	28:B3:8:LEU:C	2.79	0.56
28:B3:52:HIS:CE1	36:BB:83:G:H5''	2.39	0.56
30:B5:7:PRO:HA	35:BA:2615:U:C6	2.41	0.56
32:B7:9:ARG:HH11	32:B7:9:ARG:HG3	1.69	0.56
32:B7:34:ARG:O	32:B7:39:ARG:HB2	2.05	0.56
33:B8:38:GLY:O	33:B8:41:ILE:HG23	2.06	0.56
35:BA:74:A:H4'	35:BA:75:G:O5'	2.05	0.56
35:BA:185:U:C2	35:BA:212:G:N2	2.74	0.56
35:BA:201:C:H2'	35:BA:202:U:H5'	1.88	0.56
35:BA:203:C:H3'	35:BA:204:A:H5''	1.87	0.56
35:BA:219:G:H2'	35:BA:220:G:C8	2.41	0.56
35:BA:631:A:H2'	35:BA:632:A:C8	2.40	0.56
35:BA:674:G:N3	40:BF:74:ARG:NH1	2.54	0.56
35:BA:721:C:H2'	35:BA:721:C:O2	2.05	0.56
35:BA:786:C:C2	35:BA:787:U:C5	2.94	0.56
35:BA:942:G:C6	35:BA:943:U:C4	2.93	0.56
35:BA:1007:C:O2'	45:BN:108:PRO:HA	2.04	0.56
35:BA:1047:G:C2	35:BA:1110:G:H2'	2.40	0.56
35:BA:1313:U:H3'	35:BA:1313:U:O2	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1408:C:C2	35:BA:1595:G:N2	2.74	0.56
35:BA:1496:A:C2'	35:BA:1498:C:H41	2.15	0.56
35:BA:1569:A:O2'	38:BD:38:LYS:HG2	2.04	0.56
35:BA:1887:C:H2'	35:BA:1888:G:C4'	2.35	0.56
35:BA:2014:A:C4	35:BA:2015:A:N6	2.74	0.56
35:BA:2085:C:H2'	35:BA:2086:U:C6	2.41	0.56
35:BA:2097:C:H1'	35:BA:2193:G:N2	2.20	0.56
35:BA:2640:G:H2'	35:BA:2641:G:H5''	1.87	0.56
35:BA:2794:C:N4	35:BA:2801(A):A:N6	2.53	0.56
37:BC:49:ILE:CG2	37:BC:208:PHE:CE1	2.88	0.56
37:BC:76:ALA:HA	37:BC:114:VAL:HG23	1.86	0.56
38:BD:92:ILE:CB	38:BD:106:ILE:HA	2.34	0.56
38:BD:95:LEU:N	38:BD:95:LEU:HD13	2.20	0.56
38:BD:146:GLU:OE1	38:BD:152:GLY:N	2.38	0.56
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.35	0.56
39:BE:51:PHE:O	39:BE:52:LEU:C	2.47	0.56
39:BE:55:ASN:O	39:BE:56:PRO:O	2.23	0.56
40:BF:165:ARG:CB	40:BF:168:ARG:HH21	2.18	0.56
42:BH:145:ALA:HB1	42:BH:164:TYR:OH	2.05	0.56
45:BN:115:ARG:HA	45:BN:118:LYS:HE2	1.87	0.56
46:BO:14:THR:CG2	46:BO:94:ARG:HB2	2.35	0.56
49:BR:102:GLU:OE1	49:BR:105:ARG:NH2	2.37	0.56
50:BS:13:ARG:CG	50:BS:14:VAL:N	2.50	0.56
51:BT:29:ARG:NE	51:BT:86:ILE:HG23	2.12	0.56
52:BU:26:GLY:C	52:BU:28:ARG:N	2.63	0.56
52:BU:49:HIS:O	52:BU:53:ARG:N	2.33	0.56
52:BU:66:ASN:HD21	52:BU:70:ARG:HG3	1.71	0.56
55:BX:24:GLY:HA3	55:BX:82:GLN:NE2	2.20	0.56
56:BY:76:CYS:O	56:BY:77:PRO:C	2.48	0.56
57:BZ:24:LEU:N	57:BZ:39:VAL:O	2.27	0.56
1:AA:116:A:O2'	1:AA:117:G:H5'	2.04	0.56
1:AA:122:G:C2	1:AA:123:C:C2	2.94	0.56
1:AA:279:A:H2'	17:AQ:95:TYR:HE1	1.69	0.56
1:AA:299:G:H2'	1:AA:300:A:N7	2.21	0.56
1:AA:374:A:H4'	1:AA:451:A:OP1	2.05	0.56
1:AA:575:G:C8	1:AA:881:G:N2	2.73	0.56
1:AA:1332:A:C2'	1:AA:1333:A:H5'	2.35	0.56
1:AA:1480:G:C2	1:AA:1481:U:C2	2.94	0.56
3:AC:47:LEU:HD11	3:AC:76:VAL:HG12	1.87	0.56
4:AD:59:ARG:CZ	4:AD:59:ARG:CA	2.72	0.56
4:AD:173:TRP:HB3	4:AD:187:ARG:HH22	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:60:VAL:HG13	15:AO:63:ARG:HD2	1.86	0.56
16:AP:40:ASP:OD1	16:AP:40:ASP:C	2.48	0.56
17:AQ:76:LEU:CD1	17:AQ:78:GLU:H	2.19	0.56
19:AS:30:LEU:C	19:AS:30:LEU:HD23	2.31	0.56
19:AS:32:LYS:HB3	19:AS:57:HIS:CE1	2.40	0.56
20:AT:40:ALA:HB2	20:AT:55:ILE:CG2	2.34	0.56
23:AX:14:A:C3'	23:AX:15:A:C5'	2.73	0.56
24:AY:284:THR:HG22	24:AY:287:ARG:O	2.06	0.56
24:AY:416:LEU:HD13	24:AY:427:VAL:HG11	1.88	0.56
26:B1:19:GLN:HB2	26:B1:35:THR:HG23	1.86	0.56
27:B2:25:VAL:CG2	27:B2:60:LEU:HD13	2.21	0.56
35:BA:904:C:O2'	57:BZ:169:GLU:OE1	2.23	0.56
35:BA:996:A:H4'	52:BU:92:ARG:CZ	2.35	0.56
35:BA:1168:G:H2'	35:BA:1169:G:H8	1.71	0.56
35:BA:1429:G:H2'	35:BA:1430:C:C6	2.39	0.56
35:BA:1473:G:O6	35:BA:1519:G:C2	2.59	0.56
35:BA:1669:A:O3'	35:BA:2549:G:H5'	2.06	0.56
35:BA:2352:A:N7	35:BA:2366:A:C6	2.73	0.56
35:BA:2764:A:H2'	35:BA:2766:G:C8	2.41	0.56
38:BD:109:ASP:OD1	38:BD:110:GLY:N	2.38	0.56
38:BD:177:LEU:HD23	38:BD:177:LEU:N	2.20	0.56
38:BD:206:LEU:HB3	38:BD:211:ARG:HG2	1.88	0.56
38:BD:212:SER:HA	38:BD:215:LEU:CD1	2.33	0.56
39:BE:126:PRO:O	39:BE:128:SER:N	2.38	0.56
43:BJ:56:UNK:O	43:BJ:57:UNK:O	2.22	0.56
44:BK:23:UNK:O	44:BK:25:UNK:N	2.38	0.56
45:BN:95:PRO:O	45:BN:98:VAL:HB	2.06	0.56
47:BP:77:ARG:HH11	47:BP:77:ARG:HG2	1.71	0.56
48:BQ:60:ARG:CB	48:BQ:60:ARG:NH1	2.63	0.56
49:BR:67:LEU:CD1	49:BR:71:GLN:O	2.53	0.56
50:BS:29:PHE:CE1	50:BS:31:SER:CB	2.82	0.56
51:BT:65:LYS:NZ	51:BT:66:VAL:H	2.03	0.56
51:BT:92:GLY:C	51:BT:94:ALA:N	2.63	0.56
51:BT:106:SER:O	51:BT:107:ASP:HB3	2.05	0.56
52:BU:17:ILE:O	52:BU:18:LEU:C	2.47	0.56
57:BZ:8:TYR:HD2	57:BZ:38:TYR:OH	1.76	0.56
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.06	0.56
1:AA:195:A:OP1	20:AT:68:LYS:NZ	2.37	0.56
1:AA:712:A:H5'	38:BD:139:GLY:HA3	1.87	0.56
1:AA:1286:A:O2'	1:AA:1287:A:C5'	2.53	0.56
2:AB:60:ASP:C	2:AB:64:ARG:HH21	2.13	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:223:ILE:O	2:AB:226:ARG:CB	2.49	0.56
3:AC:139:GLN:OE1	3:AC:139:GLN:HA	2.04	0.56
7:AG:17:VAL:HG12	7:AG:18:TYR:N	2.19	0.56
11:AK:83:ILE:HA	11:AK:109:VAL:O	2.04	0.56
14:AN:22:THR:HB	14:AN:33:VAL:HG21	1.88	0.56
14:AN:50:LYS:C	14:AN:52:GLN:H	2.13	0.56
19:AS:23:ASN:HA	29:B4:47:GLN:HB3	1.87	0.56
19:AS:31:ILE:CG2	19:AS:49:ILE:HA	2.36	0.56
24:AY:247:LEU:C	24:AY:249:GLY:N	2.61	0.56
24:AY:269:LEU:O	24:AY:273:VAL:HG23	2.06	0.56
24:AY:335:ARG:NE	24:AY:374:GLN:OE1	2.38	0.56
24:AY:506:THR:HG22	24:AY:506:THR:O	2.06	0.56
25:B0:7:LEU:HD13	48:BQ:85:LYS:NZ	2.20	0.56
28:B3:10:LYS:NZ	35:BA:987:G:OP1	2.34	0.56
29:B4:9:LEU:HA	29:B4:26:SER:O	2.04	0.56
30:B5:46:CYS:HB2	30:B5:48:GLU:HG2	1.88	0.56
31:B6:40:CYS:SG	31:B6:45:LYS:HB2	2.44	0.56
35:BA:117:G:H2'	35:BA:119:A:C8	2.41	0.56
35:BA:145:G:C2'	35:BA:146:G:H5''	2.36	0.56
35:BA:584:C:O2'	35:BA:585:G:H5'	2.04	0.56
35:BA:607:U:H5	35:BA:619:G:C4	2.23	0.56
35:BA:682:G:H2'	35:BA:683:C:C6	2.41	0.56
35:BA:687:C:H2'	35:BA:688:U:H5'	1.87	0.56
35:BA:884:C:H2'	35:BA:885:C:H5''	1.88	0.56
35:BA:1223:G:C2	35:BA:1227:G:C5	2.94	0.56
35:BA:1904:G:H1'	35:BA:1927:A:N6	2.17	0.56
35:BA:2101:G:C6	35:BA:2102:U:C5	2.94	0.56
35:BA:2115:G:N2	35:BA:2119:A:OP1	2.36	0.56
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.06	0.56
35:BA:2629:A:H2'	35:BA:2629:A:N3	2.21	0.56
35:BA:2673:G:H2'	35:BA:2674:G:H8	1.71	0.56
35:BA:2745:C:H2'	35:BA:2746:U:H6	1.71	0.56
35:BA:2760:C:C3'	35:BA:2761:G:H5''	2.36	0.56
37:BC:72:VAL:HG22	37:BC:74:VAL:CG2	2.34	0.56
38:BD:214:TRP:CD1	38:BD:214:TRP:H	2.24	0.56
40:BF:29:ASN:O	40:BF:33:LEU:HD23	2.06	0.56
40:BF:156:LEU:C	40:BF:157:VAL:HG13	2.30	0.56
44:BK:91:UNK:O	44:BK:92:UNK:CB	2.54	0.56
46:BO:87:ILE:HG22	46:BO:92:GLU:H	1.70	0.56
47:BP:48:PRO:O	47:BP:49:ARG:C	2.48	0.56
51:BT:65:LYS:CE	51:BT:66:VAL:N	2.68	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:155:LEU:HD23	57:BZ:155:LEU:N	2.20	0.56
1:AA:107:G:C2	1:AA:108:G:H1'	2.41	0.56
2:AB:101:MET:O	2:AB:105:PHE:HD1	1.89	0.56
3:AC:52:LEU:HD12	3:AC:55:VAL:CG2	2.35	0.56
4:AD:100:ARG:O	4:AD:104:VAL:HG23	2.05	0.56
4:AD:163:GLU:OE1	4:AD:163:GLU:HA	2.06	0.56
5:AE:35:GLY:CA	5:AE:40:ARG:O	2.54	0.56
5:AE:138:ALA:O	5:AE:141:GLN:N	2.36	0.56
7:AG:114:ARG:O	7:AG:119:ARG:NH1	2.39	0.56
8:AH:112:LEU:HB2	8:AH:132:GLU:O	2.05	0.56
16:AP:9:PHE:HB2	16:AP:16:HIS:O	2.05	0.56
18:AR:22:VAL:CG1	18:AR:43:PHE:HE1	2.18	0.56
24:AY:138:LEU:CD1	24:AY:272:LEU:HB3	2.31	0.56
24:AY:198:GLY:HA2	24:AY:262:ASN:CG	2.31	0.56
24:AY:210:LEU:C	24:AY:212:ASN:H	2.11	0.56
24:AY:473:TRP:O	24:AY:524:HIS:O	2.22	0.56
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.06	0.56
32:B7:14:LYS:HD2	35:BA:125:G:H5'	1.86	0.56
33:B8:4:MET:CE	35:BA:592:G:H21	2.19	0.56
35:BA:44:G:H21	35:BA:435:C:H41	1.52	0.56
35:BA:71:A:H3'	35:BA:71:A:OP2	2.05	0.56
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.86	0.56
35:BA:672:C:H2'	35:BA:673:C:C5'	2.35	0.56
35:BA:1057:A:C2	35:BA:1082:U:N3	2.64	0.56
35:BA:1058:G:OP1	44:BK:1:UNK:C	2.54	0.56
35:BA:1119:C:O2'	35:BA:1120:G:H5'	2.05	0.56
35:BA:1370:C:H3'	35:BA:1371:G:H8	1.71	0.56
35:BA:1458:C:H6	35:BA:1458:C:O5'	1.89	0.56
35:BA:1667:G:H5'	46:BO:5:GLN:O	2.06	0.56
35:BA:1911:U:H6	35:BA:1911:U:O5'	1.88	0.56
35:BA:2179:C:H5''	35:BA:2180:U:OP1	2.06	0.56
35:BA:2334:G:H4'	35:BA:2335:A:OP2	2.05	0.56
35:BA:2464:C:C2	35:BA:2465:C:C6	2.93	0.56
35:BA:2821:A:O2'	35:BA:2822:G:H5'	2.05	0.56
37:BC:6:ARG:CZ	37:BC:7:TYR:HA	2.35	0.56
37:BC:28:LEU:O	37:BC:28:LEU:HG	2.06	0.56
37:BC:53:ARG:NH1	37:BC:55:ASP:HB2	2.13	0.56
37:BC:75:LEU:HB2	37:BC:93:TYR:O	2.05	0.56
37:BC:141:LYS:NZ	37:BC:164:ARG:HH21	2.00	0.56
38:BD:184:LYS:HG3	38:BD:269:PHE:O	2.06	0.56
40:BF:8:GLN:CG	40:BF:9:ILE:H	2.18	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:57:VAL:HG12	40:BF:59:TYR:N	2.15	0.56
40:BF:81:PRO:C	40:BF:82:ILE:O	2.49	0.56
45:BN:24:GLY:O	45:BN:28:THR:HG22	2.05	0.56
45:BN:28:THR:N	45:BN:106:MET:HE3	2.20	0.56
47:BP:71:VAL:N	47:BP:72:PRO:CD	2.47	0.56
47:BP:84:ASN:HA	47:BP:115:LEU:O	2.04	0.56
48:BQ:1:MET:HE1	48:BQ:48:GLU:CB	2.33	0.56
48:BQ:106:VAL:HG21	48:BQ:114:ALA:CB	2.35	0.56
49:BR:27:SER:O	49:BR:30:THR:HG22	2.06	0.56
49:BR:45:ARG:C	49:BR:49:ASP:HB2	2.29	0.56
50:BS:57:LYS:O	50:BS:57:LYS:HD2	2.05	0.56
50:BS:89:ARG:O	50:BS:90:GLY:C	2.47	0.56
51:BT:53:ARG:HB2	51:BT:53:ARG:HH11	1.70	0.56
52:BU:66:ASN:C	52:BU:66:ASN:ND2	2.62	0.56
52:BU:79:PHE:HE1	52:BU:83:LEU:CD2	2.19	0.56
57:BZ:140:ASP:OD1	57:BZ:150:LEU:HD13	2.05	0.56
1:AA:127:G:C2	1:AA:235:C:N3	2.74	0.56
1:AA:505:G:H2'	1:AA:506:G:C8	2.41	0.56
1:AA:929:G:H8	1:AA:929:G:O5'	1.89	0.56
1:AA:1113:C:O2'	1:AA:1114:C:H5'	2.06	0.56
1:AA:1117:G:C2	1:AA:1184:G:C2	2.94	0.56
2:AB:19:HIS:HD2	2:AB:20:GLU:OE1	1.89	0.56
2:AB:153:ARG:CG	2:AB:154:LEU:H	2.19	0.56
3:AC:14:ILE:HD11	3:AC:178:LEU:HG	1.86	0.56
3:AC:34:LEU:O	3:AC:38:ARG:HG2	2.05	0.56
4:AD:8:VAL:C	4:AD:10:ARG:N	2.63	0.56
5:AE:77:PRO:HB2	5:AE:78:HIS:HD2	1.71	0.56
6:AF:12:PRO:HG2	6:AF:13:ASN:ND2	2.20	0.56
8:AH:83:ILE:HG23	8:AH:83:ILE:O	2.05	0.56
12:AL:18:VAL:O	12:AL:19:ARG:HB3	2.06	0.56
14:AN:22:THR:HB	14:AN:33:VAL:CG2	2.35	0.56
15:AO:39:LEU:CB	15:AO:56:LEU:CD2	2.74	0.56
19:AS:23:ASN:CB	29:B4:47:GLN:HG2	2.33	0.56
22:AV:34:C:O5'	22:AV:34:C:H6	1.89	0.56
24:AY:282:ARG:O	24:AY:283:GLN:CB	2.54	0.56
28:B3:31:LEU:CD2	28:B3:32:GLN:HE21	2.18	0.56
31:B6:28:ARG:HA	31:B6:32:ASN:ND2	2.21	0.56
32:B7:35:ARG:NH1	32:B7:42:LEU:HD11	2.21	0.56
33:B8:12:LYS:HG2	47:BP:68:GLN:HE21	1.70	0.56
35:BA:27:G:O2'	35:BA:28:A:OP2	2.24	0.56
35:BA:353:G:C2	35:BA:354:G:C8	2.93	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:377:C:O2'	35:BA:378:C:H5'	2.04	0.56
35:BA:720:C:N3	35:BA:721:C:H1'	2.20	0.56
35:BA:774:A:H2	35:BA:787:U:O2'	1.89	0.56
35:BA:1166:C:O2	35:BA:1184:G:C2	2.59	0.56
35:BA:1203:G:C5	35:BA:1204:A:N1	2.74	0.56
35:BA:1479:G:N2	35:BA:1480:G:H1'	2.20	0.56
35:BA:1667:G:N3	35:BA:1991:U:C4	2.74	0.56
35:BA:2462:U:H2'	35:BA:2463:C:O4'	2.06	0.56
35:BA:2590:A:P	38:BD:238:GLY:HA2	2.46	0.56
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.06	0.56
35:BA:2764:A:H3'	35:BA:2766:G:N7	2.20	0.56
36:BB:10:C:C4	36:BB:11:C:C5	2.94	0.56
39:BE:7:VAL:O	39:BE:26:ILE:HG22	2.06	0.56
41:BG:34:LEU:CA	41:BG:161:THR:HG22	2.25	0.56
41:BG:42:GLY:O	41:BG:43:LEU:HB2	2.06	0.56
42:BH:27:LYS:CG	42:BH:32:GLU:HG2	2.33	0.56
42:BH:103:LEU:O	42:BH:105:LEU:HD13	2.04	0.56
45:BN:67:LEU:O	45:BN:68:GLU:HB2	2.05	0.56
46:BO:4:PRO:HB3	46:BO:22:ILE:C	2.31	0.56
46:BO:13:ASN:C	46:BO:15:GLY:N	2.63	0.56
46:BO:17:ARG:O	46:BO:18:LYS:HG3	2.04	0.56
47:BP:7:ARG:O	47:BP:10:PRO:HD2	2.05	0.56
49:BR:21:TYR:HB3	49:BR:47:PHE:CE2	2.41	0.56
49:BR:38:VAL:HG23	49:BR:110:PRO:O	2.05	0.56
51:BT:78:LEU:HD23	51:BT:78:LEU:O	2.06	0.56
52:BU:104:GLN:C	52:BU:106:PHE:N	2.59	0.56
57:BZ:157:LEU:O	57:BZ:158:PRO:C	2.48	0.56
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.71	0.56
1:AA:300:A:H8	1:AA:300:A:O5'	1.89	0.56
1:AA:509:A:C2	1:AA:510:A:C2	2.93	0.56
1:AA:824:C:H2'	1:AA:825:G:C8	2.40	0.56
2:AB:170:GLU:C	2:AB:172:ILE:N	2.64	0.56
3:AC:123:GLN:CB	3:AC:128:PHE:HD2	2.18	0.56
4:AD:30:LYS:O	4:AD:32:ALA:N	2.38	0.56
6:AF:25:ILE:N	6:AF:28:ARG:NH1	2.53	0.56
9:AI:52:ALA:HB3	9:AI:95:LYS:HZ3	1.70	0.56
12:AL:41:ARG:CG	12:AL:42:THR:H	2.07	0.56
15:AO:62:GLN:HA	15:AO:65:ARG:CG	2.36	0.56
18:AR:34:TYR:HD2	18:AR:72:ARG:HH11	1.54	0.56
24:AY:221:GLU:HG2	24:AY:222:ASP:H	1.70	0.56
24:AY:527:ARG:CD	24:AY:528:GLU:H	2.15	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:27:GLU:OE2	35:BA:856:C:H1'	2.05	0.56
31:B6:6:ARG:NH1	31:B6:7:ILE:HG13	2.20	0.56
32:B7:2:LYS:HE2	35:BA:687:C:H5''	1.88	0.56
35:BA:564:C:H2'	35:BA:565:C:H6	1.70	0.56
35:BA:1803:A:H3'	35:BA:1804:C:C6	2.41	0.56
35:BA:2039:C:C2	35:BA:2040:C:C5	2.94	0.56
35:BA:2163:C:H2'	35:BA:2164:C:O4'	2.04	0.56
35:BA:2521:C:N4	35:BA:2544:G:H1	2.03	0.56
35:BA:2639:A:H3'	35:BA:2640:G:C8	2.41	0.56
35:BA:2784:C:O2'	39:BE:37:ARG:NH1	2.38	0.56
37:BC:37:PHE:HE1	37:BC:39:GLU:HG3	1.68	0.56
38:BD:79:VAL:CG2	38:BD:115:GLN:N	2.69	0.56
39:BE:34:VAL:CG1	39:BE:48:GLN:HE21	2.17	0.56
39:BE:48:GLN:HA	39:BE:79:ARG:O	2.06	0.56
40:BF:57:VAL:HG12	40:BF:58:ALA:N	2.20	0.56
40:BF:156:LEU:O	40:BF:157:VAL:CG1	2.54	0.56
45:BN:6:PRO:O	45:BN:9:VAL:HG23	2.06	0.56
45:BN:90:MET:HA	45:BN:90:MET:HE2	1.87	0.56
45:BN:99:LEU:HD13	45:BN:103:VAL:HG23	1.86	0.56
45:BN:134:ARG:NH2	45:BN:136:GLU:HB2	2.21	0.56
47:BP:85:LEU:CD1	47:BP:120:ALA:HB2	2.35	0.56
49:BR:47:PHE:C	49:BR:49:ASP:N	2.59	0.56
53:BV:72:VAL:HG23	53:BV:85:LYS:HB2	1.85	0.56
55:BX:18:TYR:C	55:BX:20:GLY:N	2.60	0.56
1:AA:771:G:H2'	1:AA:772:U:H6	1.70	0.56
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.88	0.56
1:AA:1324:A:H2'	1:AA:1325:C:O4'	2.05	0.56
1:AA:1371:G:OP2	9:AI:11:LYS:HD2	2.06	0.56
2:AB:142:LEU:HA	2:AB:145:LEU:HB3	1.87	0.56
8:AH:13:ILE:N	8:AH:13:ILE:HD13	2.20	0.56
9:AI:16:ARG:HG3	9:AI:16:ARG:HH11	1.71	0.56
9:AI:104:ARG:NH1	9:AI:104:ARG:HG3	2.18	0.56
10:AJ:53:PRO:HA	14:AN:42:ILE:HD11	1.87	0.56
14:AN:52:GLN:O	14:AN:54:PRO:HD3	2.05	0.56
15:AO:5:LYS:HA	15:AO:8:LYS:HG3	1.87	0.56
15:AO:60:VAL:HG13	15:AO:63:ARG:CD	2.36	0.56
18:AR:22:VAL:HG11	18:AR:43:PHE:CE1	2.41	0.56
19:AS:51:VAL:HG11	19:AS:75:ALA:HB2	1.88	0.56
20:AT:76:ALA:O	20:AT:77:ALA:C	2.49	0.56
21:AU:23:PRO:C	21:AU:25:LYS:N	2.55	0.56
24:AY:138:LEU:CD2	24:AY:275:TRP:HE3	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:254:VAL:HG12	24:AY:256:PHE:CE1	2.41	0.56
25:B0:38:VAL:HG11	25:B0:59:LEU:HD12	1.88	0.56
26:B1:87:PRO:CG	26:B1:88:LYS:H	2.19	0.56
30:B5:41:PRO:HD3	54:BW:38:TYR:CE1	2.41	0.56
35:BA:242:G:H1'	35:BA:243:U:C5	2.39	0.56
35:BA:419:C:H2'	35:BA:420:C:H6	1.71	0.56
35:BA:485:C:C4	35:BA:486:C:N4	2.74	0.56
35:BA:961:C:H42	35:BA:2031:A:H1'	1.70	0.56
35:BA:1050:A:H1'	35:BA:2751:G:C2	2.41	0.56
35:BA:1278:A:C2	35:BA:1293:C:N3	2.73	0.56
35:BA:1432:C:O2	35:BA:1562:A:C2	2.59	0.56
35:BA:1514:U:H2'	35:BA:1515:G:H8	1.71	0.56
35:BA:1664:A:H2	46:BO:1:MET:HE1	1.70	0.56
35:BA:1910:G:N2	35:BA:1920:C:N3	2.45	0.56
35:BA:2023:G:H2'	35:BA:2024:G:H8	1.70	0.56
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.70	0.56
35:BA:2572:A:C4	39:BE:144:ARG:NH1	2.74	0.56
35:BA:2810:A:N3	39:BE:61:ARG:NH2	2.54	0.56
37:BC:47:LEU:CD2	37:BC:171:ILE:HD12	2.35	0.56
38:BD:108:PRO:CG	38:BD:143:HIS:NE2	2.69	0.56
39:BE:9:VAL:CG1	39:BE:10:GLY:N	2.68	0.56
42:BH:126:PRO:HD2	42:BH:131:VAL:HA	1.88	0.56
45:BN:55:VAL:HG13	45:BN:56:ASN:N	2.19	0.56
45:BN:58:ASP:C	45:BN:60:ILE:N	2.56	0.56
52:BU:26:GLY:O	52:BU:28:ARG:N	2.39	0.56
52:BU:46:ALA:O	52:BU:49:HIS:N	2.38	0.56
53:BV:39:LEU:CD1	53:BV:47:VAL:HG11	2.36	0.56
57:BZ:41:LEU:O	57:BZ:44:PHE:CB	2.53	0.56
57:BZ:57:ILE:H	57:BZ:57:ILE:CD1	2.19	0.56
1:AA:184:G:O4'	1:AA:224:C:H5''	2.05	0.56
1:AA:220:G:C2'	1:AA:221:C:H5'	2.35	0.56
1:AA:377:G:H2'	1:AA:378:G:H8	1.71	0.56
1:AA:622:A:C8	1:AA:623:C:C5	2.94	0.56
1:AA:929:G:O5'	1:AA:929:G:C8	2.59	0.56
1:AA:945:G:C2'	1:AA:946:A:H5'	2.36	0.56
2:AB:18:GLY:O	2:AB:19:HIS:HB2	2.04	0.56
9:AI:100:GLY:O	9:AI:102:LEU:N	2.39	0.56
12:AL:86:ARG:HH21	12:AL:99:HIS:CD2	2.23	0.56
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.31	0.56
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.04	0.56
18:AR:34:TYR:HD2	18:AR:72:ARG:HD3	1.69	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.21	0.56
22:AV:17(A):U:C4'	22:AV:18:G:OP1	2.54	0.56
22:AV:71:C:H3'	22:AV:72:A:C8	2.40	0.56
24:AY:454:LYS:O	24:AY:454:LYS:HD3	2.06	0.56
25:B0:10:THR:HG22	25:B0:12:ASN:N	2.18	0.56
26:B1:43:TYR:HB2	35:BA:2230:G:O3'	2.06	0.56
26:B1:80:LEU:HD22	26:B1:82:LEU:HD22	1.87	0.56
29:B4:14:ILE:CG1	29:B4:31:ILE:HB	2.30	0.56
31:B6:33:LYS:HA	31:B6:33:LYS:CE	2.19	0.56
35:BA:241:A:H5'	35:BA:243:U:H1'	1.87	0.56
35:BA:723:G:C2	35:BA:724:U:C2	2.94	0.56
35:BA:925:C:C3'	35:BA:926:A:H5''	2.36	0.56
35:BA:1367:A:H2'	35:BA:1368:G:C5'	2.35	0.56
35:BA:1712:C:N4	35:BA:1747:G:N1	2.54	0.56
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.87	0.56
35:BA:1964:G:C6	35:BA:1967:C:N4	2.74	0.56
35:BA:2043:C:H2'	35:BA:2044:C:H6	1.69	0.56
35:BA:2110:G:H22	35:BA:2178:C:H5	1.54	0.56
38:BD:24:ILE:HD13	38:BD:84:TYR:CA	2.34	0.56
40:BF:6:VAL:HG11	40:BF:124:LEU:CD1	2.36	0.56
41:BG:83:ARG:NH1	41:BG:84:LYS:HZ1	2.04	0.56
42:BH:108:GLY:O	42:BH:109:PHE:C	2.49	0.56
44:BK:125:UNK:HA	44:BK:129:UNK:CB	2.36	0.56
48:BQ:5:ARG:C	48:BQ:6:ARG:HG2	2.30	0.56
50:BS:67:ARG:NH2	50:BS:100:ALA:CB	2.69	0.56
51:BT:11:GLU:CD	51:BT:11:GLU:N	2.58	0.56
57:BZ:6:LYS:O	57:BZ:39:VAL:HG12	2.06	0.56
57:BZ:128:VAL:CG1	57:BZ:133:ILE:HD13	2.36	0.56
1:AA:274:A:O2'	1:AA:275:G:C8	2.60	0.55
1:AA:748:C:O2'	1:AA:749:C:P	2.64	0.55
1:AA:990:C:H2'	1:AA:991:U:C1'	2.35	0.55
1:AA:1074:G:H2'	1:AA:1075:C:H6	1.72	0.55
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.40	0.55
1:AA:1109:C:C2	1:AA:1110:A:C8	2.94	0.55
1:AA:1210:C:H5'	1:AA:1214:C:N4	2.21	0.55
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.60	0.55
5:AE:103:GLY:HA3	5:AE:122:GLU:OE1	2.06	0.55
7:AG:15:ASP:OD1	7:AG:16:LEU:N	2.39	0.55
7:AG:140:ASP:O	7:AG:143:ARG:HB2	2.06	0.55
12:AL:88:GLY:O	12:AL:99:HIS:ND1	2.37	0.55
20:AT:53:LEU:O	20:AT:54:LYS:C	2.49	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:56:MET:HA	20:AT:59:ALA:HB3	1.88	0.55
24:AY:147:ASP:HA	24:AY:175:CYS:HB3	1.88	0.55
24:AY:279:PRO:HB2	24:AY:361:PRO:O	2.06	0.55
24:AY:423:GLY:O	24:AY:425:VAL:N	2.38	0.55
25:B0:26:TYR:HB3	25:B0:27:GLU:OE2	2.06	0.55
27:B2:2:LYS:HB2	35:BA:97:C:C5'	2.22	0.55
35:BA:272(D):G:H1	35:BA:364:C:H42	1.54	0.55
35:BA:648:G:H4'	35:BA:2351:G:H5''	1.88	0.55
35:BA:797:C:C2'	35:BA:798:G:H8	2.00	0.55
35:BA:1590:U:C3'	35:BA:1591:G:H5''	2.36	0.55
35:BA:1774:C:H4'	35:BA:1979:C:O2	2.06	0.55
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.72	0.55
35:BA:2035:G:H3'	35:BA:2036:C:C5'	2.33	0.55
35:BA:2366:A:H2'	35:BA:2367:G:O4'	2.06	0.55
35:BA:2487:G:H2'	35:BA:2488:A:C8	2.42	0.55
35:BA:2639:A:H3'	35:BA:2640:G:H8	1.71	0.55
38:BD:33:LEU:HD23	38:BD:34:VAL:HG22	1.88	0.55
38:BD:131:LEU:CB	38:BD:136:ILE:HG13	2.27	0.55
39:BE:34:VAL:HG13	39:BE:34:VAL:O	2.06	0.55
39:BE:37:ARG:O	39:BE:45:THR:HA	2.06	0.55
40:BF:8:GLN:CG	40:BF:9:ILE:N	2.66	0.55
40:BF:195:ASP:OD2	40:BF:197:ASP:HB2	2.05	0.55
41:BG:159:VAL:CG2	41:BG:159:VAL:O	2.53	0.55
45:BN:94:HIS:N	45:BN:95:PRO:CD	2.69	0.55
47:BP:146:VAL:HG13	47:BP:147:LEU:H	1.71	0.55
48:BQ:39:PRO:O	48:BQ:40:ALA:HB2	2.06	0.55
50:BS:24:LEU:HD13	50:BS:41:ASP:OD1	2.05	0.55
51:BT:30:VAL:HA	51:BT:43:GLN:O	2.06	0.55
55:BX:26:TYR:HD2	55:BX:92:LEU:HD12	1.70	0.55
56:BY:15:VAL:CG1	56:BY:17:SER:OG	2.54	0.55
57:BZ:120:ILE:HG12	57:BZ:172:ALA:N	2.20	0.55
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.36	0.55
1:AA:193:C:O2'	1:AA:194:C:H5'	2.06	0.55
1:AA:913:A:H4'	1:AA:914:A:H4'	1.88	0.55
1:AA:1392:G:N2	1:AA:1502:A:C8	2.74	0.55
2:AB:97:TRP:CZ2	2:AB:173:ALA:HA	2.42	0.55
4:AD:52:SER:O	4:AD:56:VAL:HG23	2.06	0.55
5:AE:80:ILE:HA	8:AH:104:ARG:HH22	1.65	0.55
6:AF:36:ARG:HB3	6:AF:66:GLU:HB3	1.88	0.55
7:AG:94:ARG:O	7:AG:97:GLN:N	2.40	0.55
7:AG:129:GLU:OE1	7:AG:131:LYS:HE2	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:28:LYS:O	12:AL:30:ALA:N	2.39	0.55
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.88	0.55
21:AU:20:LYS:O	21:AU:20:LYS:HG2	2.04	0.55
24:AY:78:PRO:CB	24:AY:83:LEU:HA	2.35	0.55
24:AY:170:THR:HG22	24:AY:184:HIS:CA	2.16	0.55
35:BA:723:G:H2'	35:BA:724:U:H6	1.64	0.55
35:BA:1036:G:C2	35:BA:1120:G:C6	2.94	0.55
35:BA:1054:A:H2	35:BA:1055:G:C5	2.24	0.55
35:BA:1244:G:H4'	47:BP:11:GLY:CA	2.35	0.55
35:BA:1286:A:C2	35:BA:1329:U:C5	2.94	0.55
35:BA:1653:G:O2'	35:BA:1654:A:OP2	2.17	0.55
35:BA:2021:C:H4'	35:BA:2022:U:OP2	2.06	0.55
35:BA:2049:G:C2'	35:BA:2050:C:H5'	2.37	0.55
36:BB:54:G:N2	36:BB:55:U:N1	2.53	0.55
37:BC:6:ARG:NH1	37:BC:34:THR:O	2.39	0.55
37:BC:59:ARG:NH1	37:BC:164:ARG:CZ	2.69	0.55
37:BC:186:ALA:HB1	37:BC:190:ARG:NH1	2.20	0.55
41:BG:41:GLN:CG	41:BG:155:MET:HE2	2.36	0.55
41:BG:66:GLN:O	41:BG:68:PRO:HD3	2.06	0.55
41:BG:76:SER:HB3	41:BG:83:ARG:HG2	1.89	0.55
41:BG:123:ASN:HB2	41:BG:126:ASP:OD2	2.06	0.55
45:BN:116:LEU:O	45:BN:119:ARG:N	2.38	0.55
47:BP:85:LEU:HD12	47:BP:120:ALA:HB2	1.88	0.55
49:BR:92:GLY:C	49:BR:94:TYR:CE1	2.84	0.55
51:BT:50:ILE:HA	51:BT:99:LEU:HD11	1.88	0.55
51:BT:62:THR:HG22	51:BT:75:ILE:CB	2.36	0.55
1:AA:754:C:C5'	15:AO:72:ARG:HH12	2.19	0.55
1:AA:834:C:O2'	1:AA:835:U:H5'	2.05	0.55
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.27	0.55
2:AB:68:ILE:HB	2:AB:70:PHE:HE1	1.71	0.55
2:AB:152:PHE:O	2:AB:153:ARG:CB	2.54	0.55
2:AB:167:PRO:O	2:AB:171:ALA:HB2	2.07	0.55
4:AD:96:LEU:H	4:AD:96:LEU:CD1	2.18	0.55
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.68	0.55
10:AJ:6:ILE:C	10:AJ:71:LEU:HD12	2.30	0.55
10:AJ:27:ALA:CA	10:AJ:30:SER:HB3	2.37	0.55
12:AL:82:VAL:C	12:AL:83:VAL:HG22	2.30	0.55
14:AN:55:GLY:O	14:AN:56:VAL:C	2.48	0.55
15:AO:10:LYS:O	15:AO:13:GLN:HB2	2.06	0.55
24:AY:21:HIS:CD2	24:AY:122:ARG:HB2	2.41	0.55
24:AY:413:LEU:O	24:AY:417:VAL:HG23	2.05	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:8:LYS:CB	35:BA:2054:A:C2	2.90	0.55
31:B6:10:LEU:HD13	33:B8:34:TRP:HD1	1.70	0.55
33:B8:23:VAL:HG12	33:B8:46:ARG:NH1	2.20	0.55
33:B8:25:MET:SD	47:BP:64:LYS:HD3	2.46	0.55
35:BA:449:A:H2'	35:BA:450:G:H8	1.71	0.55
35:BA:598:G:C6	35:BA:599:G:C6	2.95	0.55
35:BA:635:C:O2'	35:BA:636:G:H5'	2.05	0.55
35:BA:811:U:O2	35:BA:1251:C:C4	2.59	0.55
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.41	0.55
35:BA:1770:G:C2'	35:BA:1771:C:H5'	2.36	0.55
35:BA:1889:A:O2'	35:BA:2087:G:H5'	2.05	0.55
35:BA:1922:G:H2'	35:BA:1923:U:C6	2.41	0.55
35:BA:2050:C:N4	35:BA:2051:A:C6	2.74	0.55
35:BA:2394:C:O2	35:BA:2394:C:H2'	2.06	0.55
35:BA:2493:U:H2'	35:BA:2494:G:O4'	2.06	0.55
35:BA:2519:U:C5	35:BA:2542:A:C2	2.94	0.55
35:BA:2692:C:H1'	35:BA:2847:U:H1'	1.88	0.55
35:BA:2857:G:H2'	35:BA:2858:C:O5'	2.07	0.55
36:BB:116:G:C2	36:BB:117:G:C5	2.94	0.55
37:BC:47:LEU:HD22	37:BC:58:VAL:HG21	1.87	0.55
38:BD:64:ILE:HG13	38:BD:65:ILE:N	2.21	0.55
38:BD:72:LYS:HZ3	38:BD:101:GLU:HB3	1.70	0.55
38:BD:90:ALA:CB	38:BD:106:ILE:HG23	2.36	0.55
38:BD:208:LYS:HG3	38:BD:210:GLY:CA	2.36	0.55
39:BE:8:LYS:HA	39:BE:26:ILE:CG2	2.36	0.55
40:BF:179:GLU:O	40:BF:205:ARG:NH1	2.39	0.55
45:BN:47:ALA:N	45:BN:48:MET:HE3	2.21	0.55
48:BQ:76:LYS:HB3	48:BQ:91:GLU:HG3	1.88	0.55
53:BV:38:LEU:C	53:BV:39:LEU:HD13	2.31	0.55
54:BW:43:GLY:C	54:BW:45:TYR:H	2.13	0.55
57:BZ:96:VAL:CG1	57:BZ:130:PRO:HG3	2.36	0.55
1:AA:30:U:H1'	1:AA:31:G:OP1	2.06	0.55
1:AA:657:G:H4'	15:AO:28:GLN:HG2	1.88	0.55
1:AA:797:C:H2'	1:AA:797:C:O2	2.05	0.55
1:AA:882:C:H2'	1:AA:883:C:H6	1.70	0.55
1:AA:948:C:P	13:AM:108:ARG:H	2.29	0.55
1:AA:1063:C:H42	1:AA:1193:G:H1	1.54	0.55
1:AA:1371:G:H5''	9:AI:69:GLY:N	2.21	0.55
1:AA:1418:A:C2	1:AA:1483:A:C2	2.94	0.55
1:AA:1436:U:C5	1:AA:1437:C:C5	2.94	0.55
2:AB:123:ALA:O	2:AB:124:SER:HB2	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:73:PRO:HG3	3:AC:105:GLU:HB2	1.87	0.55
6:AF:62:TRP:CD2	18:AR:35:ARG:NH2	2.75	0.55
7:AG:17:VAL:C	7:AG:19:GLY:H	2.14	0.55
9:AI:29:ASN:OD1	9:AI:64:THR:HA	2.06	0.55
10:AJ:51:ARG:HG3	10:AJ:51:ARG:HH11	1.71	0.55
15:AO:45:VAL:CG1	15:AO:46:HIS:N	2.69	0.55
16:AP:7:ALA:HB1	16:AP:29:ASP:HA	1.87	0.55
16:AP:74:LEU:CB	16:AP:79:VAL:HG21	2.36	0.55
20:AT:12:ALA:C	20:AT:14:LYS:N	2.61	0.55
24:AY:18:ILE:HD11	24:AY:30:THR:OG1	2.06	0.55
24:AY:236:GLY:O	24:AY:237:ALA:CB	2.54	0.55
24:AY:360:TYR:HB3	24:AY:361:PRO:CD	2.27	0.55
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.67	0.55
30:B5:32:PRO:HD2	35:BA:2886:G:O2'	2.05	0.55
35:BA:139:G:C6	35:BA:140:G:H2'	2.41	0.55
35:BA:848:G:N3	35:BA:933:A:H1'	2.21	0.55
35:BA:955:C:OP1	48:BQ:87:LYS:HE3	2.06	0.55
35:BA:1712:C:C2'	35:BA:1713:U:H5'	2.36	0.55
35:BA:1720:U:H2'	35:BA:1721:G:C4'	2.36	0.55
35:BA:2159:G:C2'	35:BA:2160:G:C5'	2.81	0.55
35:BA:2839:G:C4'	49:BR:49:ASP:OD2	2.53	0.55
38:BD:44:ASN:HD22	38:BD:48:ARG:N	2.04	0.55
38:BD:165:ILE:HA	38:BD:175:LEU:HD22	1.88	0.55
39:BE:9:VAL:HG12	39:BE:25:VAL:C	2.31	0.55
39:BE:33:VAL:HG11	39:BE:88:GLY:C	2.31	0.55
39:BE:126:PRO:C	39:BE:128:SER:H	2.14	0.55
40:BF:18:ARG:CZ	40:BF:199:TRP:CZ3	2.88	0.55
40:BF:154:VAL:HG12	40:BF:155:LEU:H	1.71	0.55
41:BG:171:ALA:CA	41:BG:174:GLU:HB3	2.36	0.55
47:BP:96:THR:C	47:BP:97:PRO:O	2.45	0.55
52:BU:12:ARG:HB2	52:BU:13:LYS:NZ	2.22	0.55
53:BV:98:GLU:OE2	53:BV:100:ARG:HD3	2.06	0.55
54:BW:1:MET:HG3	54:BW:64:MET:CE	2.36	0.55
54:BW:72:LYS:HE3	54:BW:108:GLY:HA3	1.87	0.55
57:BZ:100:VAL:HG11	57:BZ:137:ILE:HG13	1.89	0.55
1:AA:22:G:H5''	1:AA:885:G:OP2	2.07	0.55
1:AA:127:G:N2	1:AA:235:C:C2	2.75	0.55
1:AA:575:G:C5	1:AA:881:G:N2	2.75	0.55
1:AA:622:A:H3'	1:AA:623:C:C5	2.41	0.55
1:AA:874:G:C6	1:AA:875:C:N4	2.75	0.55
1:AA:951:G:C2'	1:AA:952:U:C6	2.66	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.06	0.55
2:AB:142:LEU:O	2:AB:146:GLN:N	2.39	0.55
3:AC:7:PRO:HG2	3:AC:8:ILE:H	1.71	0.55
10:AJ:91:PRO:O	10:AJ:93:GLY:N	2.40	0.55
12:AL:75:HIS:HD2	12:AL:77:LEU:HB2	1.70	0.55
17:AQ:7:THR:O	17:AQ:23:VAL:HG13	2.07	0.55
19:AS:40:ILE:HG13	19:AS:69:HIS:O	2.07	0.55
19:AS:63:THR:HG23	19:AS:65:ASN:N	2.19	0.55
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.07	0.55
24:AY:28:THR:N	58:AY:1000:GCP:O1A	2.31	0.55
24:AY:72:THR:OG1	24:AY:302:LYS:NZ	2.35	0.55
24:AY:241:PHE:CZ	24:AY:275:TRP:NE1	2.74	0.55
24:AY:425:VAL:HG21	24:AY:449:VAL:HG13	1.88	0.55
24:AY:505:ALA:C	24:AY:507:SER:H	2.15	0.55
26:B1:18:ILE:HG21	26:B1:20:ARG:CZ	2.36	0.55
27:B2:8:LYS:O	27:B2:12:GLU:HB2	2.05	0.55
27:B2:27:GLU:O	27:B2:30:ARG:N	2.38	0.55
28:B3:5:LYS:CB	28:B3:36:VAL:HG12	2.37	0.55
30:B5:40:LYS:NZ	30:B5:45:VAL:HA	2.22	0.55
31:B6:9:LEU:HD22	31:B6:10:LEU:N	2.20	0.55
35:BA:35:G:C4	35:BA:454:A:C2	2.94	0.55
35:BA:184:C:O3'	35:BA:217:G:N2	2.39	0.55
35:BA:271(M):G:O2'	35:BA:271(O):C:H5'	2.05	0.55
35:BA:341:G:O2'	35:BA:342:G:H5'	2.06	0.55
35:BA:535:C:O2'	35:BA:536:A:H5'	2.07	0.55
35:BA:1054:A:C2	35:BA:1055:G:C5	2.94	0.55
35:BA:1528(A):A:H8	35:BA:1529:G:C8	2.24	0.55
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.70	0.55
35:BA:1806:C:H2'	35:BA:1807:G:H8	1.72	0.55
35:BA:1826:G:C6	35:BA:1827:C:C4	2.95	0.55
35:BA:2706:G:H5''	35:BA:2851:A:H5''	1.89	0.55
36:BB:31:C:H2'	36:BB:31:C:O2	2.05	0.55
36:BB:31:C:N4	36:BB:51:G:H1	2.04	0.55
38:BD:40:THR:O	38:BD:41:GLY:O	2.24	0.55
38:BD:62:TYR:HE1	38:BD:64:ILE:CA	2.19	0.55
41:BG:5:VAL:CG1	41:BG:6:ALA:H	2.09	0.55
41:BG:28:VAL:O	41:BG:29:TRP:CG	2.60	0.55
45:BN:94:HIS:HA	45:BN:96:GLU:OE2	2.06	0.55
57:BZ:16:SER:C	57:BZ:20:ARG:HG2	2.31	0.55
1:AA:482:A:H2'	1:AA:483:C:O4'	2.07	0.55
1:AA:1030:C:N4	1:AA:1032:G:N2	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1030:C:N4	1:AA:1032:G:H21	2.05	0.55
1:AA:1055:A:C6	1:AA:1206:G:C5	2.95	0.55
2:AB:152:PHE:HD1	2:AB:153:ARG:N	2.04	0.55
2:AB:185:ILE:N	2:AB:185:ILE:CD1	2.69	0.55
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.55	0.55
4:AD:134:ASP:OD1	4:AD:134:ASP:N	2.40	0.55
6:AF:80:ARG:NH1	6:AF:88:VAL:O	2.39	0.55
9:AI:52:ALA:HB3	9:AI:95:LYS:NZ	2.21	0.55
9:AI:99:LEU:C	9:AI:101:PHE:H	2.14	0.55
12:AL:113:ARG:HG3	12:AL:114:LYS:N	2.22	0.55
12:AL:121:GLY:O	12:AL:122:THR:O	2.25	0.55
19:AS:20:LEU:CA	19:AS:23:ASN:HB3	2.34	0.55
19:AS:61:TYR:O	19:AS:62:ILE:CB	2.54	0.55
24:AY:289:VAL:HG12	24:AY:322:SER:HB3	1.87	0.55
24:AY:473:TRP:HZ3	24:AY:500:ASN:CB	1.93	0.55
25:B0:37:LEU:HD23	25:B0:37:LEU:N	2.20	0.55
30:B5:28:PRO:HG2	54:BW:35:ILE:CD1	2.35	0.55
32:B7:8:ASN:HA	35:BA:1309:G:H5'	1.89	0.55
35:BA:83:G:H22	35:BA:102:G:H2'	1.69	0.55
35:BA:116:C:OP1	35:BA:128:C:N4	2.40	0.55
35:BA:126:A:C6	35:BA:127:A:C2	2.94	0.55
35:BA:1429:G:H5'	35:BA:1568:G:O2'	2.05	0.55
35:BA:1773:A:C2	35:BA:1978:A:C2	2.95	0.55
35:BA:2008:C:O2'	35:BA:2009:G:H5'	2.07	0.55
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.06	0.55
35:BA:2586:C:H6	35:BA:2586:C:O5'	1.90	0.55
35:BA:2646:C:O2	35:BA:2646:C:H2'	2.06	0.55
35:BA:2864:G:OP1	51:BT:119:LYS:HG3	2.06	0.55
38:BD:211:ARG:HH11	38:BD:211:ARG:HG3	1.71	0.55
47:BP:16:ARG:HD3	47:BP:16:ARG:C	2.32	0.55
48:BQ:19:GLY:O	48:BQ:98:LYS:HD3	2.07	0.55
48:BQ:50:ALA:O	48:BQ:52:VAL:N	2.40	0.55
51:BT:23:ARG:CZ	51:BT:120:ARG:HD3	2.37	0.55
51:BT:57:PHE:O	51:BT:79:HIS:CE1	2.59	0.55
51:BT:80:SER:OG	51:BT:81:PRO:CD	2.55	0.55
52:BU:113:ALA:C	52:BU:115:ALA:N	2.65	0.55
53:BV:57:VAL:HG22	53:BV:58:VAL:N	2.22	0.55
55:BX:12:VAL:HG12	55:BX:27:THR:CA	2.36	0.55
56:BY:88:LYS:NZ	56:BY:93:GLY:N	2.54	0.55
57:BZ:127:LYS:HG2	57:BZ:162:GLU:HG3	1.88	0.55
1:AA:1200:C:H1'	1:AA:1205:U:O4	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1226:C:C6	13:AM:104:ARG:HA	2.41	0.55
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.72	0.55
4:AD:9:CYS:HA	4:AD:12:CYS:SG	2.46	0.55
7:AG:119:ARG:O	7:AG:120:ILE:C	2.50	0.55
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	1.99	0.55
11:AK:66:LEU:O	11:AK:69:ALA:HB3	2.06	0.55
12:AL:103:GLY:HA3	12:AL:121:GLY:HA2	1.87	0.55
16:AP:38:TYR:OH	16:AP:47:ASP:OD1	2.24	0.55
24:AY:186:TYR:OH	24:AY:241:PHE:N	2.40	0.55
24:AY:472:ARG:HD3	24:AY:525:GLN:HB3	1.87	0.55
27:B2:27:GLU:O	27:B2:30:ARG:HB3	2.06	0.55
30:B5:4:HIS:HB2	30:B5:5:PRO:HD3	1.89	0.55
32:B7:1:MET:O	32:B7:2:LYS:C	2.49	0.55
32:B7:35:ARG:HG2	32:B7:35:ARG:HH11	1.72	0.55
35:BA:575:A:O2'	35:BA:576:U:C5'	2.54	0.55
35:BA:578:A:C8	35:BA:2018:G:H5'	2.41	0.55
35:BA:1018:C:H2'	35:BA:1019:U:O4'	2.07	0.55
35:BA:1061:U:P	44:BK:1:UNK:H2	2.30	0.55
35:BA:1070:A:H8	35:BA:1070:A:OP2	1.89	0.55
35:BA:1345:C:H4'	35:BA:1396:U:N3	2.22	0.55
35:BA:1451:C:H5'	35:BA:1452:A:H5'	1.88	0.55
35:BA:1607:C:N4	35:BA:1621:U:H2'	2.22	0.55
35:BA:1754:C:H4'	51:BT:101:PHE:CD1	2.42	0.55
35:BA:2282:G:H1	35:BA:2427:C:H42	1.54	0.55
35:BA:2305:A:C8	41:BG:135:LEU:O	2.60	0.55
35:BA:2309:A:H2'	35:BA:2310:A:C5'	2.36	0.55
35:BA:2839:G:O2'	35:BA:2840:C:H5'	2.07	0.55
36:BB:89:G:H2'	36:BB:90:A:C8	2.42	0.55
38:BD:143:HIS:O	38:BD:192:THR:HG23	2.07	0.55
38:BD:242:ARG:HD2	38:BD:242:ARG:H	1.70	0.55
39:BE:12:THR:HG23	39:BE:13:ARG:N	2.21	0.55
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.88	0.55
41:BG:7:LEU:HD22	41:BG:176:LEU:CD2	2.36	0.55
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.37	0.55
46:BO:105:GLU:HA	46:BO:108:GLU:CD	2.31	0.55
49:BR:9:LYS:O	49:BR:10:LEU:HD23	2.06	0.55
49:BR:17:ARG:HB2	49:BR:17:ARG:CZ	2.37	0.55
50:BS:97:ARG:CZ	50:BS:97:ARG:O	2.55	0.55
1:AA:105:G:H2'	1:AA:106:C:H6	1.65	0.55
1:AA:131:C:O2	1:AA:131:C:H2'	2.05	0.55
1:AA:236:G:H5''	17:AQ:42:TYR:OH	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:741:G:O2'	1:AA:742:G:H5'	2.07	0.55
1:AA:928:G:H2'	1:AA:929:G:C8	2.41	0.55
1:AA:1067:A:O2'	1:AA:1068:G:C8	2.59	0.55
1:AA:1221:G:OP1	1:AA:1321:C:N3	2.39	0.55
1:AA:1418:A:H2	1:AA:1483:A:C2	2.25	0.55
1:AA:1423:G:OP1	46:BO:49:ARG:NH2	2.40	0.55
4:AD:96:LEU:HA	4:AD:99:SER:CB	2.37	0.55
6:AF:72:VAL:O	6:AF:75:LEU:N	2.38	0.55
10:AJ:32:ALA:HB3	10:AJ:76:ASN:HB2	1.89	0.55
12:AL:35:GLY:CA	12:AL:59:ARG:O	2.54	0.55
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.70	0.55
13:AM:70:LEU:HA	13:AM:73:GLU:HB3	1.87	0.55
18:AR:58:LEU:CD1	18:AR:66:LEU:HD22	2.27	0.55
22:AV:51:C:H6	22:AV:51:C:O5'	1.90	0.55
25:B0:51:VAL:HG23	25:B0:80:HIS:HA	1.87	0.55
33:B8:30:ARG:HA	33:B8:30:ARG:NE	2.22	0.55
34:B9:36:GLN:OE1	35:BA:1124:C:H1'	2.06	0.55
35:BA:453:C:O4'	35:BA:457:A:C2	2.60	0.55
35:BA:1357:U:H2'	35:BA:1358:G:O4'	2.07	0.55
35:BA:1389:G:C2	35:BA:1399:C:O2	2.60	0.55
35:BA:1887:C:H2'	35:BA:1888:G:O4'	2.06	0.55
35:BA:1919:A:C2'	35:BA:1920:C:C5'	2.82	0.55
35:BA:2266:A:H8	35:BA:2266:A:OP1	1.90	0.55
35:BA:2314:C:H5''	41:BG:38:VAL:HG21	1.89	0.55
35:BA:2615:U:H2'	35:BA:2616:C:C6	2.42	0.55
35:BA:2631:G:H1	39:BE:61:ARG:HH12	1.54	0.55
37:BC:193:ILE:HG22	37:BC:193:ILE:O	2.07	0.55
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.53	0.55
40:BF:42:ALA:C	40:BF:44:ARG:H	2.15	0.55
44:BK:55:UNK:CB	44:BK:69:UNK:HA	2.37	0.55
46:BO:43:VAL:O	46:BO:54:GLU:HA	2.07	0.55
46:BO:105:GLU:HG3	46:BO:108:GLU:OE2	2.07	0.55
51:BT:53:ARG:NH1	51:BT:53:ARG:CB	2.70	0.55
52:BU:27:LEU:HA	52:BU:30:LYS:CB	2.36	0.55
52:BU:92:ARG:C	52:BU:94:ASN:N	2.62	0.55
52:BU:98:LEU:C	52:BU:100:VAL:N	2.62	0.55
55:BX:4:ALA:C	55:BX:6:ASP:H	2.14	0.55
55:BX:4:ALA:C	55:BX:6:ASP:N	2.64	0.55
1:AA:452:A:N7	1:AA:480:U:O4	2.39	0.55
1:AA:534:U:H5'	1:AA:534:U:H6	1.71	0.55
1:AA:909:A:OP1	12:AL:21:LYS:NZ	2.35	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:992:U:O2	1:AA:992:U:H2'	2.07	0.55
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.41	0.55
1:AA:1503:A:H2'	23:AX:12:A:H62	1.72	0.55
2:AB:138:LEU:N	2:AB:138:LEU:CD2	2.67	0.55
3:AC:154:SER:HA	3:AC:165:THR:HA	1.88	0.55
5:AE:82:VAL:HG11	5:AE:134:ALA:O	2.07	0.55
6:AF:50:TYR:CD1	6:AF:50:TYR:C	2.84	0.55
15:AO:53:HIS:C	15:AO:53:HIS:HD1	2.15	0.55
17:AQ:76:LEU:HD12	17:AQ:78:GLU:H	1.72	0.55
17:AQ:91:ARG:HH11	17:AQ:91:ARG:CB	2.20	0.55
19:AS:51:VAL:HG23	19:AS:60:VAL:HG11	1.89	0.55
24:AY:99:THR:HA	24:AY:102:THR:CB	2.36	0.55
24:AY:138:LEU:CD1	24:AY:268:MET:CE	2.82	0.55
24:AY:150:ASP:OD1	24:AY:151:PRO:HD2	2.07	0.55
24:AY:154:LEU:C	24:AY:156:ASP:H	2.14	0.55
24:AY:176:GLY:O	24:AY:179:PHE:HB2	2.07	0.55
24:AY:327:LYS:NZ	24:AY:344:ASP:CB	2.69	0.55
24:AY:349:MET:HE1	24:AY:358:GLU:CD	2.32	0.55
33:B8:29:LYS:HA	33:B8:32:LEU:HB2	1.88	0.55
33:B8:50:LEU:O	33:B8:51:ALA:CB	2.55	0.55
34:B9:36:GLN:CD	35:BA:1124:C:H1'	2.32	0.55
35:BA:131:G:H2'	35:BA:132:G:C8	2.42	0.55
35:BA:391:G:C2	35:BA:392:C:C2	2.95	0.55
35:BA:459:U:H2'	35:BA:460:A:C8	2.42	0.55
35:BA:485:C:H2'	35:BA:486:C:C5	2.42	0.55
35:BA:734:A:H2'	35:BA:735:A:O4'	2.06	0.55
35:BA:803:U:HO2'	35:BA:804:A:H5'	1.70	0.55
35:BA:807:U:O2'	35:BA:2060:A:N1	2.40	0.55
35:BA:818:G:N2	35:BA:1188:U:OP2	2.36	0.55
35:BA:931:G:C2	35:BA:933:A:C5	2.94	0.55
35:BA:1160:G:O2'	35:BA:1161:C:H5'	2.07	0.55
35:BA:1528(A):A:H62	35:BA:1541:G:H21	1.49	0.55
35:BA:1625:C:H2'	35:BA:1626:G:C5'	2.37	0.55
35:BA:2222:G:H5'	38:BD:149:PRO:HG3	1.89	0.55
35:BA:2391:G:H1'	35:BA:2429:G:H21	1.71	0.55
35:BA:2396:G:N1	35:BA:2421:G:O6	2.40	0.55
37:BC:131:LEU:HD22	37:BC:136:LEU:CD1	2.37	0.55
37:BC:134:ARG:HD2	37:BC:134:ARG:H	1.72	0.55
38:BD:3:VAL:HG22	38:BD:200:ASP:OD1	2.07	0.55
38:BD:70:TRP:CD1	38:BD:150:LYS:HE3	2.42	0.55
38:BD:158:ALA:O	38:BD:196:VAL:CG1	2.47	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:248:SER:OG	38:BD:252:TRP:NE1	2.39	0.55
39:BE:189:PRO:O	39:BE:190:GLY:O	2.25	0.55
40:BF:123:LEU:HD11	40:BF:125:LEU:HD22	1.89	0.55
41:BG:19:LEU:O	41:BG:22:ARG:N	2.40	0.55
41:BG:137:GLU:O	41:BG:138:GLN:HB3	2.07	0.55
42:BH:43:VAL:CG1	42:BH:52:VAL:CG2	2.83	0.55
45:BN:1:MET:HE1	45:BN:3:THR:OG1	2.07	0.55
47:BP:100:LEU:H	47:BP:100:LEU:CD2	2.20	0.55
49:BR:58:GLY:HA2	49:BR:80:PHE:HE1	1.71	0.55
50:BS:89:ARG:O	50:BS:92:TYR:CB	2.54	0.55
51:BT:107:ASP:H	51:BT:110:ILE:HG13	1.66	0.55
52:BU:12:ARG:HD2	52:BU:13:LYS:NZ	2.22	0.55
53:BV:28:GLU:O	53:BV:61:VAL:CG2	2.55	0.55
53:BV:69:LYS:HA	53:BV:87:HIS:O	2.07	0.55
1:AA:443:C:O5'	1:AA:443:C:H6	1.89	0.55
1:AA:538:G:H5''	12:AL:114:LYS:CB	2.36	0.55
1:AA:758:G:H4'	1:AA:880:C:H4'	1.89	0.55
1:AA:790:A:N6	1:AA:1498:U:OP1	2.39	0.55
1:AA:896:C:C2'	1:AA:897:C:H5'	2.36	0.55
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.37	0.55
1:AA:1423:G:H5''	46:BO:49:ARG:CZ	2.36	0.55
2:AB:36:ARG:HB3	2:AB:41:ILE:HD11	1.89	0.55
2:AB:57:PHE:O	2:AB:61:LEU:N	2.32	0.55
2:AB:88:ALA:O	2:AB:89:GLY:C	2.49	0.55
3:AC:39:ILE:O	3:AC:43:LEU:HG	2.06	0.55
5:AE:35:GLY:HA2	5:AE:40:ARG:O	2.07	0.55
8:AH:27:PRO:HG3	8:AH:58:TYR:CE1	2.42	0.55
12:AL:85:ILE:HG22	12:AL:86:ARG:N	2.22	0.55
13:AM:78:ILE:O	13:AM:81:LEU:HB2	2.07	0.55
15:AO:4:THR:O	15:AO:7:GLU:N	2.40	0.55
19:AS:62:ILE:HG23	19:AS:62:ILE:O	2.07	0.55
20:AT:77:ALA:O	20:AT:81:LYS:HG3	2.07	0.55
24:AY:12:LYS:O	24:AY:82:CYS:CB	2.55	0.55
24:AY:194:GLN:HB3	24:AY:202:GLN:HG2	1.89	0.55
28:B3:31:LEU:HD22	28:B3:32:GLN:HG2	1.88	0.55
29:B4:11:PRO:HB3	29:B4:25:TYR:CE2	2.42	0.55
30:B5:47:PRO:HG2	30:B5:48:GLU:OE1	2.07	0.55
35:BA:257:A:H2'	35:BA:258:G:H5'	1.89	0.55
35:BA:476:G:N2	35:BA:479:A:C8	2.74	0.55
35:BA:762:U:H5'	35:BA:763:G:N3	2.22	0.55
35:BA:974:G:P	35:BA:1186:G:H21	2.29	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1467:C:C2	35:BA:1468:C:C5	2.95	0.55
35:BA:1683:C:C4	35:BA:1684:C:N4	2.75	0.55
35:BA:1815:A:P	38:BD:54:ARG:HH22	2.30	0.55
35:BA:1827:C:H2'	35:BA:1828:G:H8	1.72	0.55
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.37	0.55
35:BA:2428:G:H5''	35:BA:2429:G:O5'	2.07	0.55
35:BA:2684:U:H1'	46:BO:70:LYS:CD	2.33	0.55
35:BA:2699:C:O2'	35:BA:2700:C:H5'	2.07	0.55
39:BE:116:VAL:HG22	39:BE:122:PHE:CB	2.36	0.55
41:BG:171:ALA:O	41:BG:174:GLU:HB3	2.06	0.55
45:BN:6:PRO:HG3	52:BU:64:ARG:HH22	1.72	0.55
46:BO:92:GLU:CG	46:BO:93:PRO:HD2	2.31	0.55
47:BP:47:ASP:CG	47:BP:49:ARG:N	2.65	0.55
47:BP:62:LEU:CD2	47:BP:62:LEU:N	2.70	0.55
49:BR:76:VAL:CG2	49:BR:80:PHE:CE2	2.86	0.55
49:BR:103:ARG:O	49:BR:111:LEU:HD13	2.07	0.55
50:BS:24:LEU:HB3	50:BS:85:VAL:HG12	1.88	0.55
50:BS:27:SER:O	50:BS:28:VAL:HG22	2.07	0.55
51:BT:107:ASP:CG	51:BT:108:ARG:N	2.65	0.55
51:BT:128:GLU:O	51:BT:129:ARG:C	2.50	0.55
52:BU:93:LYS:HD2	52:BU:93:LYS:H	1.72	0.55
56:BY:15:VAL:C	56:BY:17:SER:H	2.15	0.55
56:BY:28:LYS:HB3	56:BY:37:VAL:HB	1.88	0.55
57:BZ:48:PHE:C	57:BZ:50:GLN:N	2.63	0.55
1:AA:186:C:H2'	1:AA:187:C:H6	1.72	0.54
1:AA:441:A:H3'	1:AA:442:C:H6	1.70	0.54
1:AA:881:G:H2'	1:AA:882:C:O4'	2.07	0.54
1:AA:943:U:C2'	1:AA:944:G:H5'	2.37	0.54
1:AA:1037:C:O5'	1:AA:1037:C:H6	1.90	0.54
1:AA:1078:U:H5	1:AA:1079:G:C5	2.25	0.54
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.07	0.54
2:AB:20:GLU:HG2	2:AB:189:ASP:CG	2.32	0.54
5:AE:107:ARG:C	5:AE:109:ILE:N	2.62	0.54
6:AF:48:LEU:HD12	6:AF:55:ASP:O	2.06	0.54
8:AH:103:VAL:O	8:AH:104:ARG:C	2.50	0.54
13:AM:107:ALA:O	13:AM:108:ARG:HD2	2.07	0.54
14:AN:19:ARG:O	14:AN:20:ALA:O	2.25	0.54
15:AO:33:THR:CG2	15:AO:34:LEU:H	2.20	0.54
16:AP:48:TRP:CD1	16:AP:48:TRP:H	2.25	0.54
19:AS:22:LEU:CD1	19:AS:27:GLU:HB2	2.37	0.54
20:AT:14:LYS:C	20:AT:16:HIS:H	2.13	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:74:VAL:CG1	24:AY:317:PHE:CE2	2.91	0.54
24:AY:142:ASN:O	24:AY:143:LYS:HB2	2.07	0.54
24:AY:183:TYR:CD2	24:AY:189:GLU:C	2.85	0.54
24:AY:424:ALA:O	24:AY:445:GLN:HB2	2.07	0.54
24:AY:487:ARG:O	24:AY:489:ASN:N	2.40	0.54
24:AY:512:ARG:HA	24:AY:515:GLN:CG	2.36	0.54
27:B2:25:VAL:C	27:B2:27:GLU:N	2.64	0.54
32:B7:11:LYS:CE	35:BA:686:G:N2	2.71	0.54
35:BA:151:C:H2'	35:BA:152:G:C8	2.42	0.54
35:BA:271(I):G:H2'	35:BA:271(J):C:C6	2.41	0.54
35:BA:385:C:O2'	35:BA:388:G:N2	2.39	0.54
35:BA:481:G:OP2	56:BY:47:LYS:CD	2.54	0.54
35:BA:570:G:O6	35:BA:2499:C:OP1	2.26	0.54
35:BA:970:C:H2'	35:BA:971:C:C6	2.41	0.54
35:BA:1260:G:O2'	35:BA:1261:C:H5'	2.07	0.54
35:BA:1287:A:O2'	35:BA:1288:U:H5'	2.06	0.54
35:BA:1411:C:H2'	35:BA:1412:A:C8	2.42	0.54
35:BA:1631(A):A:O2'	35:BA:1632:A:H5'	2.06	0.54
35:BA:1632:A:C6	35:BA:1633:G:C6	2.95	0.54
35:BA:1827:C:H5''	35:BA:1971:A:O3'	2.07	0.54
35:BA:2126:A:N6	35:BA:2163:C:C4'	2.70	0.54
35:BA:2184:G:H2'	35:BA:2185:C:O4'	2.06	0.54
35:BA:2312:U:OP1	41:BG:74:LYS:N	2.41	0.54
35:BA:2393:A:C2'	35:BA:2394:C:H6	2.13	0.54
35:BA:2718:G:H5'	51:BT:100:TYR:CE2	2.40	0.54
35:BA:2882:A:OP1	49:BR:96:ARG:NE	2.35	0.54
38:BD:117:VAL:HG21	38:BD:128:GLY:C	2.32	0.54
39:BE:119:ARG:HG2	39:BE:120:TRP:N	2.22	0.54
40:BF:203:GLN:C	40:BF:205:ARG:N	2.62	0.54
41:BG:11:TYR:HD1	41:BG:15:VAL:CB	2.20	0.54
41:BG:64:THR:CG2	41:BG:65:GLY:N	2.70	0.54
41:BG:83:ARG:CZ	41:BG:84:LYS:NZ	2.70	0.54
45:BN:25:ARG:C	45:BN:28:THR:HG22	2.32	0.54
45:BN:95:PRO:O	45:BN:98:VAL:HG23	2.07	0.54
45:BN:97:ARG:O	45:BN:98:VAL:C	2.49	0.54
46:BO:107:ARG:HH11	51:BT:36:GLU:HG3	1.72	0.54
47:BP:39:LYS:O	47:BP:41:ARG:CG	2.51	0.54
48:BQ:79:LEU:O	48:BQ:80:GLU:HB2	2.06	0.54
52:BU:80:ILE:O	52:BU:80:ILE:HG22	2.05	0.54
53:BV:68:LYS:HD2	53:BV:69:LYS:H	1.72	0.54
54:BW:5:ALA:N	54:BW:105:VAL:O	2.39	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:54:HIS:HB3	57:BZ:101:PRO:HD3	1.89	0.54
1:AA:272:C:C4	1:AA:273:A:N7	2.75	0.54
1:AA:436:C:H2'	1:AA:437:U:H6	1.70	0.54
1:AA:519:C:H2'	1:AA:520:A:O4'	2.07	0.54
1:AA:621:A:C5	1:AA:622:A:N7	2.75	0.54
1:AA:1040:U:O2'	1:AA:1041:A:H5'	2.07	0.54
1:AA:1124:G:O5'	10:AJ:35:SER:HB2	2.06	0.54
2:AB:69:LEU:HD12	2:AB:71:VAL:HG22	1.89	0.54
2:AB:118:LEU:HD11	2:AB:141:GLU:OE2	2.07	0.54
5:AE:12:LEU:HD22	5:AE:13:ILE:C	2.33	0.54
5:AE:89:ILE:CG1	5:AE:90:VAL:N	2.70	0.54
7:AG:107:ALA:HB1	7:AG:123:GLU:OE1	2.07	0.54
8:AH:126:LYS:HG2	8:AH:127:LEU:N	2.22	0.54
9:AI:57:GLY:O	9:AI:58:ARG:HB3	2.08	0.54
9:AI:70:LYS:HA	9:AI:73:GLN:NE2	2.22	0.54
10:AJ:64:GLU:OE1	14:AN:59:ALA:HA	2.07	0.54
10:AJ:78:ASN:ND2	10:AJ:80:LYS:HB3	2.22	0.54
13:AM:74:VAL:C	13:AM:76:ALA:N	2.62	0.54
15:AO:24:SER:O	15:AO:25:THR:C	2.50	0.54
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	1.89	0.54
16:AP:58:TYR:HE2	16:AP:59:TRP:CZ3	2.23	0.54
18:AR:38:GLU:H	18:AR:38:GLU:CD	2.15	0.54
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.08	0.54
21:AU:6:ARG:HG2	21:AU:15:ARG:NH1	2.21	0.54
25:B0:41:ARG:O	25:B0:42:GLY:O	2.24	0.54
28:B3:19:GLN:O	28:B3:22:ALA:HB3	2.08	0.54
33:B8:8:LYS:HZ2	33:B8:11:LYS:CE	2.18	0.54
35:BA:712:G:O2'	35:BA:713:G:H5'	2.06	0.54
35:BA:1260:G:H2'	35:BA:1261:C:H6	1.73	0.54
35:BA:1334:G:O2'	35:BA:1335:U:H5'	2.07	0.54
35:BA:1462:C:C5'	35:BA:2703:C:O4'	2.55	0.54
35:BA:1503:U:O2'	35:BA:1504:C:H5'	2.08	0.54
35:BA:1563:G:C2'	35:BA:1564:C:H5'	2.37	0.54
35:BA:2012:G:H4'	54:BW:96:ILE:HD11	1.90	0.54
35:BA:2108:C:O2	35:BA:2108:C:C2'	2.55	0.54
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.43	0.54
35:BA:2289:G:N2	35:BA:2344:U:C2	2.75	0.54
35:BA:2454:G:H2'	35:BA:2455:G:H8	1.72	0.54
35:BA:2591:C:OP1	38:BD:239:ARG:HG3	2.07	0.54
35:BA:2661:G:O2'	35:BA:2662:A:H5'	2.08	0.54
35:BA:2761:G:H8	35:BA:2761:G:H5'	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2791:C:C5	35:BA:2793:G:O6	2.60	0.54
36:BB:67:G:O2'	36:BB:68:C:O5'	2.24	0.54
37:BC:8:ARG:C	37:BC:10:LEU:H	2.15	0.54
38:BD:267:SER:HA	38:BD:270:ILE:CG1	2.36	0.54
47:BP:50:ARG:HG2	47:BP:50:ARG:NH1	2.21	0.54
48:BQ:10:ARG:NH1	48:BQ:10:ARG:CB	2.66	0.54
49:BR:47:PHE:C	49:BR:49:ASP:H	2.16	0.54
50:BS:63:THR:O	50:BS:65:VAL:N	2.40	0.54
56:BY:90:LEU:O	56:BY:91:GLU:HG2	2.08	0.54
57:BZ:98:MET:O	57:BZ:126:VAL:HG22	2.07	0.54
57:BZ:118:GLN:O	57:BZ:172:ALA:HB1	2.07	0.54
1:AA:141:A:H4'	1:AA:182:U:H1'	1.89	0.54
1:AA:323:U:H4'	20:AT:22:ARG:HD3	1.87	0.54
1:AA:959:A:H2'	1:AA:960:U:C4'	2.37	0.54
1:AA:1004:A:C3'	1:AA:1005:A:H5'	2.37	0.54
1:AA:1155:G:O2'	1:AA:1156:G:H5'	2.07	0.54
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.42	0.54
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.07	0.54
2:AB:16:HIS:HD2	2:AB:210:SER:N	2.05	0.54
2:AB:40:HIS:HB3	2:AB:190:THR:HG21	1.90	0.54
3:AC:58:GLU:N	3:AC:65:ALA:CB	2.67	0.54
3:AC:157:ILE:HG21	3:AC:164:ARG:NH2	2.21	0.54
4:AD:6:GLY:N	4:AD:115:ARG:HH22	2.05	0.54
5:AE:10:MET:HG2	5:AE:10:MET:O	2.07	0.54
6:AF:33:TYR:CG	6:AF:75:LEU:HD13	2.42	0.54
8:AH:6:ILE:O	8:AH:7:ALA:C	2.49	0.54
8:AH:67:PRO:C	8:AH:68:ARG:O	2.46	0.54
11:AK:42:TRP:O	11:AK:71:LYS:NZ	2.38	0.54
12:AL:20:LYS:HD3	12:AL:20:LYS:N	2.21	0.54
13:AM:74:VAL:C	13:AM:76:ALA:H	2.14	0.54
15:AO:11:VAL:HG12	15:AO:15:PHE:CE1	2.42	0.54
17:AQ:3:LYS:O	17:AQ:60:ILE:CG1	2.45	0.54
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.89	0.54
17:AQ:46:ASP:OD2	17:AQ:51:TYR:CD2	2.55	0.54
19:AS:16:LEU:N	19:AS:16:LEU:CD1	2.71	0.54
19:AS:42:PRO:HG3	19:AS:67:VAL:HG11	1.90	0.54
24:AY:314:ARG:NH1	24:AY:418:GLN:OE1	2.40	0.54
25:B0:27:GLU:CA	25:B0:67:VAL:O	2.56	0.54
33:B8:17:THR:HG1	33:B8:21:LYS:HB2	1.71	0.54
33:B8:35:GLN:C	33:B8:36:LYS:HG3	2.32	0.54
35:BA:43:A:O2'	35:BA:44:G:H5'	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:77:C:H2'	35:BA:78:A:C8	2.42	0.54
35:BA:484:C:O2'	35:BA:485:C:H5'	2.08	0.54
35:BA:682:G:H2'	35:BA:683:C:H6	1.71	0.54
35:BA:768:G:O2'	35:BA:1379:A:N6	2.40	0.54
35:BA:1061:U:H5'	35:BA:1070:A:H1'	1.89	0.54
35:BA:1667:G:C2	35:BA:1991:U:C5	2.95	0.54
35:BA:1791:A:N1	35:BA:1829:A:C4'	2.71	0.54
35:BA:2139:C:H2'	35:BA:2140:C:C6	2.41	0.54
35:BA:2142:C:H2'	35:BA:2143:C:C6	2.43	0.54
35:BA:2348:U:H5	35:BA:2382:G:N2	2.05	0.54
35:BA:2395:C:C2'	35:BA:2396:G:O5'	2.55	0.54
36:BB:101:G:C4	36:BB:102:A:C8	2.96	0.54
38:BD:138:VAL:HG23	38:BD:168:ARG:NE	2.23	0.54
43:BJ:16:UNK:O	43:BJ:20:UNK:CB	2.56	0.54
45:BN:57:ALA:H	45:BN:124:ALA:HA	1.72	0.54
47:BP:123:LEU:N	47:BP:123:LEU:CD2	2.70	0.54
48:BQ:12:GLN:OE1	48:BQ:73:PRO:HD3	2.07	0.54
49:BR:14:SER:HA	49:BR:17:ARG:CZ	2.34	0.54
49:BR:67:LEU:HD11	49:BR:71:GLN:O	2.06	0.54
50:BS:56:LEU:O	50:BS:56:LEU:CD2	2.53	0.54
50:BS:92:TYR:O	50:BS:93:LYS:CB	2.54	0.54
53:BV:49:THR:O	53:BV:50:PRO:C	2.50	0.54
54:BW:14:PRO:CG	54:BW:78:GLU:HG3	2.18	0.54
54:BW:21:VAL:O	54:BW:23:LEU:N	2.40	0.54
1:AA:289:G:N2	1:AA:312:C:C2	2.75	0.54
1:AA:740:U:HO2'	1:AA:741:G:C5'	2.21	0.54
1:AA:825:G:O2'	1:AA:826:C:H5'	2.07	0.54
1:AA:1049:U:H2'	14:AN:2:ALA:HA	1.88	0.54
1:AA:1072:G:C6	1:AA:1073:U:C4	2.95	0.54
1:AA:1238:A:H2	1:AA:1241:G:N3	2.04	0.54
1:AA:1254:C:H6	1:AA:1254:C:O5'	1.90	0.54
1:AA:1314:C:H2'	1:AA:1315:U:O4'	2.08	0.54
7:AG:118:VAL:O	7:AG:119:ARG:C	2.50	0.54
10:AJ:43:ARG:O	10:AJ:67:THR:CG2	2.55	0.54
18:AR:55:ARG:HG3	18:AR:55:ARG:NH1	2.22	0.54
20:AT:91:LEU:O	20:AT:93:GLU:N	2.40	0.54
24:AY:86:LEU:HD12	24:AY:88:ASP:H	1.71	0.54
24:AY:114:ASP:O	24:AY:118:GLY:CA	2.53	0.54
24:AY:440:ALA:HA	24:AY:445:GLN:NE2	2.22	0.54
24:AY:508:MET:CA	24:AY:511:LEU:HB3	2.38	0.54
35:BA:396:G:O5'	35:BA:396:G:C8	2.60	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:910:A:H5'	35:BA:911:A:OP2	2.08	0.54
35:BA:1107:G:OP1	43:BJ:59:UNK:N	2.39	0.54
35:BA:1479:G:H2'	35:BA:1480:G:C8	2.42	0.54
35:BA:1705:G:O2'	35:BA:1706:U:H5'	2.07	0.54
35:BA:1882:C:C3'	35:BA:1883:G:H5'	2.38	0.54
35:BA:2007:C:O4'	35:BA:2824:C:H4'	2.06	0.54
35:BA:2146:C:H4'	35:BA:2147:G:N7	2.21	0.54
35:BA:2441:C:H4'	35:BA:2441:C:OP1	2.08	0.54
35:BA:2460:U:H2'	35:BA:2461:C:H5'	1.89	0.54
35:BA:2718:G:P	51:BT:100:TYR:HD2	2.30	0.54
35:BA:2847:U:C5	35:BA:2848:G:C5	2.95	0.54
46:BO:86:ILE:C	46:BO:87:ILE:HD13	2.33	0.54
48:BQ:58:PHE:CZ	48:BQ:64:ILE:HD11	2.43	0.54
48:BQ:101:ARG:NH1	48:BQ:102:VAL:O	2.40	0.54
50:BS:25:ARG:HH11	50:BS:25:ARG:HG2	1.73	0.54
53:BV:81:TYR:HE1	53:BV:83:ARG:HH21	1.54	0.54
53:BV:91:TYR:CD1	53:BV:92:THR:N	2.74	0.54
56:BY:13:VAL:O	56:BY:24:VAL:HG13	2.07	0.54
1:AA:18:C:H1'	1:AA:1079:G:N2	2.23	0.54
1:AA:109:A:O2'	1:AA:110:C:OP1	2.19	0.54
1:AA:119:A:H4'	1:AA:120:A:O5'	2.07	0.54
1:AA:663:A:O2'	1:AA:664:G:H5'	2.07	0.54
1:AA:771:G:H2'	1:AA:772:U:C6	2.43	0.54
1:AA:920:U:H1'	1:AA:1080:A:N3	2.22	0.54
1:AA:951:G:O2'	1:AA:952:U:C5'	2.56	0.54
1:AA:981:U:O5'	1:AA:981:U:C6	2.60	0.54
1:AA:1057:G:H2'	1:AA:1058:G:H5'	1.89	0.54
1:AA:1100:C:O2	1:AA:1102:A:H5''	2.08	0.54
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.42	0.54
1:AA:1266:G:N2	1:AA:1268:A:OP2	2.40	0.54
2:AB:50:GLU:O	2:AB:54:THR:N	2.39	0.54
2:AB:219:VAL:HA	2:AB:222:ILE:HG12	1.89	0.54
5:AE:145:LYS:HD2	8:AH:107:LEU:CD2	2.37	0.54
7:AG:65:ALA:HB1	7:AG:124:LEU:HD23	1.90	0.54
7:AG:75:VAL:CG2	7:AG:144:MET:HB3	2.37	0.54
9:AI:100:GLY:O	9:AI:101:PHE:C	2.51	0.54
11:AK:21:ILE:HD13	11:AK:94:ALA:HB1	1.89	0.54
16:AP:67:THR:H	16:AP:70:ALA:CB	2.21	0.54
24:AY:12:LYS:O	24:AY:82:CYS:HB3	2.07	0.54
24:AY:307:MET:HE1	24:AY:456:GLU:OE2	2.08	0.54
24:AY:440:ALA:CB	24:AY:446:PHE:CE1	2.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:3:LYS:HE2	35:BA:2611:U:HO2'	1.70	0.54
32:B7:11:LYS:O	32:B7:13:ALA:N	2.40	0.54
35:BA:204:A:OP1	35:BA:204:A:C8	2.61	0.54
35:BA:325:G:O2'	35:BA:326:G:H5'	2.07	0.54
35:BA:637:A:N1	35:BA:652:C:H5'	2.23	0.54
35:BA:981:A:H5''	35:BA:982:C:OP2	2.08	0.54
35:BA:1225:G:H2'	35:BA:1226:A:C8	2.42	0.54
35:BA:1714:G:H2'	35:BA:1717:G:O4'	2.07	0.54
35:BA:1720:U:C2'	35:BA:1721:G:C5'	2.77	0.54
35:BA:1851:U:O2'	35:BA:1852:C:H5'	2.07	0.54
35:BA:1903:G:N2	35:BA:1927:A:C2	2.73	0.54
35:BA:1947:C:C2'	35:BA:1948:G:C5'	2.58	0.54
35:BA:2208:A:H1'	35:BA:2219:G:C6	2.43	0.54
35:BA:2394:C:OP1	47:BP:63:PRO:CD	2.56	0.54
35:BA:2870:C:H2'	35:BA:2871:C:C5'	2.38	0.54
37:BC:58:VAL:O	37:BC:59:ARG:HB2	2.08	0.54
38:BD:66:ASP:OD1	38:BD:103:ARG:NH1	2.40	0.54
38:BD:70:TRP:NE1	38:BD:150:LYS:CE	2.70	0.54
38:BD:92:ILE:HB	38:BD:105:ILE:O	2.08	0.54
38:BD:182:LEU:O	38:BD:271:ILE:HG13	2.08	0.54
45:BN:39:ARG:C	45:BN:41:ASP:H	2.16	0.54
46:BO:2:ILE:HB	46:BO:33:ALA:CB	2.22	0.54
47:BP:17:LYS:C	47:BP:19:VAL:N	2.65	0.54
47:BP:122:PRO:CB	47:BP:141:ALA:HB3	2.35	0.54
48:BQ:141:GLN:C	57:BZ:53:ILE:HB	2.32	0.54
50:BS:33:LYS:O	50:BS:34:HIS:HD2	1.91	0.54
51:BT:124:ASP:HB3	51:BT:125:ARG:HH11	1.61	0.54
52:BU:6:THR:CB	52:BU:10:ARG:NH2	2.71	0.54
53:BV:77:ALA:O	53:BV:79:VAL:HG23	2.07	0.54
1:AA:38:G:H5'	1:AA:547:A:N6	2.23	0.54
1:AA:66:G:H4'	1:AA:173:U:C5	2.43	0.54
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.08	0.54
1:AA:413:G:H21	1:AA:428:G:H1'	1.72	0.54
1:AA:493:G:H8	1:AA:493:G:O5'	1.89	0.54
1:AA:600:C:OP1	8:AH:97:VAL:HG12	2.07	0.54
1:AA:673:G:H4'	6:AF:87:ARG:HH21	1.73	0.54
1:AA:949:A:C6	1:AA:950:U:C4	2.95	0.54
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.08	0.54
1:AA:1215:G:O2'	1:AA:1216:G:H5'	2.07	0.54
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.07	0.54
4:AD:8:VAL:O	4:AD:10:ARG:N	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:18:LYS:HG3	4:AD:33:MET:CB	2.38	0.54
7:AG:49:ILE:O	7:AG:52:GLU:N	2.37	0.54
8:AH:4:ASP:O	8:AH:5:PRO:C	2.50	0.54
9:AI:53:VAL:C	9:AI:55:ALA:N	2.65	0.54
10:AJ:7:LYS:HA	10:AJ:70:ARG:O	2.07	0.54
15:AO:12:ILE:HG23	15:AO:27:VAL:HG13	1.87	0.54
15:AO:12:ILE:O	15:AO:16:ALA:N	2.40	0.54
19:AS:15:LEU:HD13	19:AS:19:VAL:CG2	2.38	0.54
20:AT:90:GLN:O	20:AT:91:LEU:HD23	2.06	0.54
24:AY:21:HIS:HD2	24:AY:122:ARG:HB2	1.73	0.54
24:AY:79:TYR:O	24:AY:80:HIS:C	2.51	0.54
24:AY:173:ILE:CD1	24:AY:190:THR:HG23	2.37	0.54
24:AY:457:TYR:C	24:AY:459:VAL:H	2.16	0.54
25:B0:27:GLU:OE1	35:BA:856:C:H1'	2.07	0.54
26:B1:67:ILE:C	26:B1:69:LYS:H	2.15	0.54
33:B8:8:LYS:HD3	33:B8:11:LYS:CD	2.34	0.54
35:BA:13:A:C2	35:BA:526:A:C8	2.96	0.54
35:BA:27:G:H22	35:BA:512:G:H2'	1.71	0.54
35:BA:94(A):G:H2'	35:BA:95:G:C4'	2.38	0.54
35:BA:203:C:C3'	35:BA:204:A:H5''	2.38	0.54
35:BA:491:G:N2	35:BA:492:A:H1'	2.23	0.54
35:BA:958:U:H5''	48:BQ:14:ARG:HH11	1.73	0.54
35:BA:1022:G:C5	35:BA:1140:C:C4	2.95	0.54
35:BA:1478:G:H2'	35:BA:1479:G:C8	2.42	0.54
35:BA:1499:C:O2'	35:BA:1500:G:C5'	2.55	0.54
35:BA:1638:C:H5''	35:BA:2710:C:O2'	2.08	0.54
35:BA:1665:A:C3'	35:BA:1666:G:H5''	2.36	0.54
35:BA:2011:U:H2'	35:BA:2012:G:H5'	1.89	0.54
35:BA:2075:U:H2'	35:BA:2238:G:N2	2.23	0.54
35:BA:2124:G:H3'	35:BA:2125:G:H8	1.73	0.54
35:BA:2563:U:H1'	35:BA:2566:A:C6	2.43	0.54
35:BA:2687:U:C4	35:BA:2688:U:C5	2.95	0.54
37:BC:70:LYS:O	37:BC:71:GLN:O	2.26	0.54
38:BD:97:TYR:C	38:BD:99:ASP:N	2.63	0.54
39:BE:33:VAL:HG13	39:BE:69:LYS:HD2	1.89	0.54
40:BF:154:VAL:HG22	40:BF:191:ARG:CB	2.32	0.54
47:BP:139:LYS:HG2	47:BP:139:LYS:O	2.08	0.54
54:BW:24:ILE:O	54:BW:71:VAL:HG21	2.08	0.54
56:BY:37:VAL:O	56:BY:38:ILE:HD13	2.08	0.54
56:BY:45:VAL:HG11	56:BY:60:PHE:HD2	1.71	0.54
56:BY:46:LYS:HG2	56:BY:47:LYS:N	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:46:LYS:CA	56:BY:62:GLU:HG2	2.37	0.54
1:AA:123:C:H5''	1:AA:311:C:C2'	2.37	0.54
1:AA:132:C:O2'	1:AA:133:U:H5'	2.07	0.54
1:AA:404:U:H5'	4:AD:122:ARG:HE	1.72	0.54
1:AA:906:G:H8	1:AA:906:G:O5'	1.90	0.54
1:AA:1501:C:N3	1:AA:1504:G:C6	2.76	0.54
1:AA:1502:A:N1	1:AA:1504:G:C2	2.75	0.54
2:AB:57:PHE:O	2:AB:60:ASP:N	2.39	0.54
2:AB:87:ARG:NH1	2:AB:219:VAL:HB	2.22	0.54
3:AC:95:THR:HG22	3:AC:97:LYS:HB2	1.88	0.54
5:AE:89:ILE:HG22	5:AE:134:ALA:HB1	1.90	0.54
6:AF:25:ILE:CG2	6:AF:26:ILE:N	2.70	0.54
8:AH:73:ASP:OD1	8:AH:75:ARG:NE	2.41	0.54
8:AH:109:ILE:HG13	8:AH:110:ALA:N	2.21	0.54
10:AJ:4:ILE:CB	10:AJ:74:ILE:HD11	2.37	0.54
11:AK:65:ALA:O	11:AK:68:ALA:N	2.40	0.54
13:AM:70:LEU:O	13:AM:71:ARG:C	2.50	0.54
15:AO:65:ARG:HH11	15:AO:65:ARG:HG2	1.71	0.54
17:AQ:58:GLU:O	17:AQ:59:ILE:HG12	2.07	0.54
18:AR:71:LYS:O	18:AR:72:ARG:C	2.51	0.54
24:AY:16:PHE:HA	24:AY:106:VAL:HG21	1.85	0.54
24:AY:16:PHE:CA	24:AY:106:VAL:HG23	2.34	0.54
24:AY:227:LEU:HA	24:AY:230:GLU:HB2	1.88	0.54
24:AY:444:LEU:O	24:AY:446:PHE:N	2.41	0.54
24:AY:479:ALA:O	24:AY:482:PHE:HB3	2.07	0.54
28:B3:5:LYS:HE2	28:B3:34:GLU:OE2	2.07	0.54
35:BA:49:A:H5''	35:BA:51:G:O4'	2.08	0.54
35:BA:182:A:H2'	35:BA:183:C:H6	1.71	0.54
35:BA:324:A:C2	35:BA:325:G:H1'	2.42	0.54
35:BA:359:A:H2'	35:BA:360:G:O4'	2.06	0.54
35:BA:673:C:O2'	35:BA:674:G:H5'	2.08	0.54
35:BA:1839:G:N9	35:BA:1927:A:H1'	2.21	0.54
35:BA:1948:G:C2'	35:BA:1949:G:H5'	2.36	0.54
35:BA:2010:G:H4'	54:BW:42:ARG:HB2	1.88	0.54
35:BA:2637:U:C2'	35:BA:2638:G:H5'	2.37	0.54
35:BA:2650:U:H2'	35:BA:2651:C:C6	2.43	0.54
37:BC:39:GLU:HG3	37:BC:217:THR:OG1	2.08	0.54
38:BD:80:ALA:CB	38:BD:94:LEU:HD12	2.37	0.54
39:BE:82:ARG:HG3	39:BE:83:ASP:N	2.19	0.54
41:BG:106:LEU:O	41:BG:106:LEU:HD12	2.08	0.54
46:BO:6:THR:CG2	46:BO:7:TYR:N	2.70	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:120:ARG:HA	51:BT:123:GLN:CD	2.33	0.54
52:BU:107:ALA:O	52:BU:111:GLU:HG2	2.08	0.54
53:BV:43:GLU:C	53:BV:44:LYS:HG3	2.33	0.54
54:BW:62:HIS:C	54:BW:63:ASP:CG	2.75	0.54
56:BY:12:THR:HG22	56:BY:13:VAL:N	2.23	0.54
57:BZ:105:VAL:HG22	57:BZ:106:GLY:N	2.23	0.54
1:AA:723:U:H2'	1:AA:723:U:O2	2.06	0.54
1:AA:874:G:O2'	1:AA:875:C:H5'	2.08	0.54
1:AA:928:G:H2'	1:AA:929:G:H8	1.72	0.54
1:AA:1337:G:H5''	1:AA:1338:G:OP1	2.07	0.54
2:AB:14:GLY:HA3	2:AB:16:HIS:HE1	1.72	0.54
2:AB:229:VAL:CG1	2:AB:230:VAL:H	2.21	0.54
3:AC:58:GLU:CB	3:AC:65:ALA:HB2	2.37	0.54
4:AD:199:ASN:OD1	4:AD:199:ASN:C	2.50	0.54
6:AF:77:ARG:HH11	6:AF:77:ARG:HG2	1.73	0.54
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.42	0.54
20:AT:19:SER:O	20:AT:20:LEU:C	2.51	0.54
24:AY:16:PHE:CE2	24:AY:86:LEU:HB2	2.43	0.54
24:AY:76:GLN:OE1	24:AY:349:MET:HA	2.07	0.54
24:AY:78:PRO:HG3	24:AY:350:ALA:HB2	1.88	0.54
24:AY:108:CYS:CA	24:AY:136:PRO:HG2	2.37	0.54
24:AY:223:LEU:HD23	24:AY:226:GLN:OE1	2.08	0.54
24:AY:300:VAL:HG13	24:AY:316:ALA:HB1	1.89	0.54
24:AY:305:ALA:HA	24:AY:422:GLU:CG	2.38	0.54
26:B1:62:VAL:HG21	26:B1:66:HIS:O	2.07	0.54
35:BA:57:C:C2'	35:BA:58:G:H5'	2.38	0.54
35:BA:135:G:O2'	35:BA:136:G:H5'	2.08	0.54
35:BA:955:C:H2'	35:BA:956:G:H5'	1.90	0.54
35:BA:962:G:C2	35:BA:963:U:C1'	2.91	0.54
35:BA:985:C:O5'	35:BA:985:C:H6	1.91	0.54
35:BA:1061:U:O2'	44:BK:9:UNK:CB	2.56	0.54
35:BA:1094:U:H1'	35:BA:1097:U:C5	2.41	0.54
35:BA:1310:G:C4'	35:BA:1611:C:H5''	2.37	0.54
35:BA:1411:C:H2'	35:BA:1412:A:H8	1.73	0.54
35:BA:1600:C:O5'	35:BA:1600:C:C6	2.61	0.54
35:BA:1772:G:H2'	35:BA:1773:A:H4'	1.89	0.54
35:BA:1934:C:H2'	35:BA:1935:G:H5'	1.90	0.54
35:BA:2018:G:H21	52:BU:34:LYS:NZ	2.05	0.54
35:BA:2415:G:H4'	47:BP:66:GLY:CA	2.37	0.54
35:BA:2688:U:O4	35:BA:2719:G:H3'	2.08	0.54
36:BB:116:G:N3	36:BB:116:G:H2'	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:10:LEU:HD11	37:BC:34:THR:OG1	2.08	0.54
39:BE:102:VAL:HB	39:BE:199:ARG:O	2.08	0.54
39:BE:164:ARG:O	39:BE:165:VAL:CG2	2.55	0.54
40:BF:62:ARG:HG2	40:BF:62:ARG:HH11	1.72	0.54
40:BF:159:GLY:HA2	40:BF:178:PRO:HD3	1.88	0.54
41:BG:163:ALA:HB1	41:BG:168:GLU:CB	2.38	0.54
46:BO:64:ARG:HE	46:BO:101:PRO:HG2	1.72	0.54
47:BP:29:LYS:O	47:BP:30:THR:O	2.26	0.54
47:BP:55:ARG:C	47:BP:57:THR:H	2.14	0.54
47:BP:95:VAL:HG23	47:BP:95:VAL:O	2.06	0.54
48:BQ:12:GLN:CD	48:BQ:73:PRO:HD3	2.33	0.54
48:BQ:27:VAL:HG12	48:BQ:29:PHE:H	1.72	0.54
49:BR:21:TYR:HB3	49:BR:47:PHE:CZ	2.43	0.54
49:BR:67:LEU:CD2	49:BR:76:VAL:HB	2.38	0.54
52:BU:49:HIS:O	52:BU:50:ARG:C	2.50	0.54
52:BU:105:VAL:O	52:BU:109:LEU:HG	2.08	0.54
53:BV:12:TYR:CE2	53:BV:22:VAL:HG12	2.41	0.54
53:BV:46:VAL:O	53:BV:46:VAL:HG13	2.08	0.54
53:BV:47:VAL:HG12	53:BV:52:VAL:CB	2.30	0.54
57:BZ:35:ARG:O	57:BZ:37:VAL:HG13	2.08	0.54
57:BZ:54:HIS:C	57:BZ:98:MET:HE1	2.32	0.54
1:AA:123:C:O2'	1:AA:290:C:O2	2.21	0.54
1:AA:368:U:C6	24:AY:370:HIS:NE2	2.73	0.54
1:AA:447:G:N2	1:AA:486:U:C5	2.76	0.54
1:AA:688:G:O2'	1:AA:689:C:H5'	2.08	0.54
1:AA:730:G:O6	15:AO:51:HIS:CE1	2.61	0.54
1:AA:756:C:H2'	1:AA:757:U:O4'	2.08	0.54
1:AA:1202:G:C2	14:AN:42:ILE:HG22	2.42	0.54
1:AA:1204:A:C2'	1:AA:1205:U:H6	2.16	0.54
1:AA:1236:A:P	21:AU:3:LYS:HD2	2.48	0.54
1:AA:1508:G:C2	1:AA:1509:C:C2	2.96	0.54
2:AB:146:GLN:O	2:AB:147:LYS:C	2.50	0.54
4:AD:133:VAL:CG1	4:AD:135:LEU:HD22	2.38	0.54
6:AF:54:LYS:O	6:AF:56:PRO:HD3	2.07	0.54
7:AG:46:ALA:O	7:AG:50:ILE:HG12	2.08	0.54
9:AI:63:ILE:HD13	9:AI:77:ILE:HD13	1.90	0.54
12:AL:35:GLY:C	12:AL:58:VAL:CG1	2.80	0.54
13:AM:56:LEU:HD22	13:AM:60:VAL:CG2	2.38	0.54
16:AP:39:TYR:O	16:AP:41:PRO:HD3	2.08	0.54
24:AY:74:VAL:CG1	24:AY:317:PHE:HE2	2.21	0.54
24:AY:74:VAL:HA	24:AY:87:LEU:HA	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:144:LEU:O	24:AY:179:PHE:CD1	2.60	0.54
24:AY:198:GLY:O	24:AY:262:ASN:ND2	2.37	0.54
24:AY:284:THR:O	24:AY:287:ARG:O	2.25	0.54
24:AY:285:ASP:HB3	24:AY:387:PHE:HB3	1.89	0.54
24:AY:402:ARG:O	24:AY:461:ALA:CB	2.54	0.54
24:AY:480:LYS:O	24:AY:480:LYS:HE2	2.08	0.54
25:B0:14:ARG:HB2	35:BA:2279:G:O6	2.08	0.54
31:B6:38:LYS:HD2	35:BA:2344:U:OP1	2.08	0.54
35:BA:55:G:H2'	35:BA:56:A:C8	2.42	0.54
35:BA:118:A:OP2	35:BA:119:A:H5''	2.08	0.54
35:BA:1266:G:O2'	35:BA:2012:G:C6	2.55	0.54
35:BA:1366:A:N6	35:BA:1367:A:C6	2.76	0.54
35:BA:1436:G:N2	35:BA:1557:C:O2	2.40	0.54
35:BA:1799:G:OP1	38:BD:260:ARG:HB2	2.07	0.54
35:BA:2092:U:H4'	35:BA:2093:G:C5'	2.32	0.54
35:BA:2385:C:C2	35:BA:2386:C:C5	2.96	0.54
35:BA:2420:C:H2'	35:BA:2421:G:H8	1.73	0.54
35:BA:2626:C:H2'	35:BA:2627:G:C8	2.43	0.54
35:BA:2689:U:C4'	35:BA:2690:C:H5'	2.38	0.54
35:BA:2741:A:C2'	35:BA:2742:C:H5'	2.37	0.54
35:BA:2791:C:H5	35:BA:2793:G:O6	1.90	0.54
35:BA:2839:G:H4'	49:BR:49:ASP:CB	2.37	0.54
37:BC:76:ALA:CB	37:BC:153:ILE:HD11	2.35	0.54
37:BC:120:MET:HE2	37:BC:123:VAL:HG11	1.90	0.54
38:BD:97:TYR:O	38:BD:99:ASP:N	2.41	0.54
41:BG:58:GLN:HE22	41:BG:62:LEU:HD13	1.72	0.54
42:BH:68:THR:HA	42:BH:71:LEU:CB	2.32	0.54
42:BH:129:THR:O	42:BH:131:VAL:HG22	2.08	0.54
46:BO:50:GLY:O	46:BO:52:VAL:N	2.41	0.54
46:BO:86:ILE:HG22	46:BO:94:ARG:CG	2.07	0.54
46:BO:108:GLU:HG2	46:BO:108:GLU:O	2.07	0.54
48:BQ:59:ARG:O	48:BQ:59:ARG:HD2	2.08	0.54
49:BR:17:ARG:HH11	49:BR:17:ARG:HB3	1.72	0.54
49:BR:82:GLU:C	49:BR:85:PRO:HD2	2.33	0.54
51:BT:92:GLY:O	51:BT:94:ALA:N	2.40	0.54
51:BT:132:LYS:O	51:BT:134:GLU:N	2.36	0.54
52:BU:17:ILE:N	52:BU:17:ILE:CD1	2.70	0.54
54:BW:83:LYS:NZ	54:BW:97:LYS:HD3	2.23	0.54
54:BW:88:ARG:CG	54:BW:88:ARG:NH1	2.67	0.54
56:BY:14:LEU:N	56:BY:73:ARG:O	2.41	0.54
56:BY:68:HIS:C	56:BY:70:SER:H	2.16	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:141:VAL:HG12	57:BZ:141:VAL:O	2.07	0.54
1:AA:55:A:C4	24:AY:311:HIS:CD2	2.96	0.54
1:AA:64:G:H4'	1:AA:65:U:C5'	2.37	0.54
1:AA:293:G:H5'	1:AA:610:G:N2	2.23	0.54
1:AA:669:U:H2'	1:AA:670:G:C8	2.43	0.54
1:AA:741:G:C5'	15:AO:39:LEU:HD21	2.37	0.54
1:AA:817:C:C4	1:AA:819:A:C1'	2.90	0.54
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	2.08	0.54
1:AA:1236:A:OP1	21:AU:3:LYS:HG3	2.07	0.54
1:AA:1238:A:C2	1:AA:1241:G:N3	2.76	0.54
1:AA:1402:C:H2'	1:AA:1403:C:H6	1.71	0.54
2:AB:162:ILE:CG2	2:AB:184:VAL:HA	2.38	0.54
3:AC:48:TYR:O	3:AC:50:ALA:N	2.42	0.54
3:AC:52:LEU:HD12	3:AC:55:VAL:HG21	1.90	0.54
3:AC:148:GLY:O	3:AC:203:PHE:HB3	2.08	0.54
4:AD:59:ARG:NH1	4:AD:59:ARG:CA	2.71	0.54
4:AD:112:VAL:HG12	4:AD:116:GLN:CD	2.32	0.54
4:AD:164:ALA:O	4:AD:168:ARG:HD3	2.08	0.54
6:AF:1:MET:N	6:AF:67:MET:O	2.41	0.54
11:AK:82:VAL:CG1	11:AK:108:ILE:HA	2.38	0.54
12:AL:89:ARG:HD2	12:AL:91:LYS:H	1.73	0.54
13:AM:70:LEU:O	13:AM:73:GLU:CB	2.55	0.54
15:AO:49:ASP:CG	15:AO:52:SER:CB	2.80	0.54
15:AO:49:ASP:OD1	15:AO:52:SER:N	2.34	0.54
16:AP:17:TYR:HE1	16:AP:41:PRO:HG3	1.73	0.54
20:AT:53:LEU:O	20:AT:56:MET:N	2.41	0.54
22:AV:3:C:C4	22:AV:4:G:N7	2.76	0.54
24:AY:215:LEU:HD23	24:AY:216:ASP:N	2.22	0.54
24:AY:360:TYR:CB	24:AY:361:PRO:CD	2.86	0.54
31:B6:15:GLU:CG	31:B6:18:ARG:CZ	2.86	0.54
33:B8:12:LYS:O	47:BP:65:ARG:HB2	2.07	0.54
35:BA:352:G:H2'	35:BA:352:G:N3	2.22	0.54
35:BA:705:A:O2'	35:BA:706:A:H5'	2.07	0.54
35:BA:990:A:O5'	35:BA:991:C:OP2	2.25	0.54
35:BA:1598:C:H5'	55:BX:36:LYS:HG2	1.90	0.54
35:BA:1847:A:H61	35:BA:1893:C:N4	2.06	0.54
35:BA:1859:A:H1'	35:BA:1884:A:C2	2.43	0.54
35:BA:1864:U:H2'	35:BA:1865:G:C8	2.42	0.54
35:BA:1964:G:H4'	35:BA:1965:C:OP2	2.07	0.54
35:BA:2578:G:C6	39:BE:140:SER:HB2	2.43	0.54
35:BA:2811:G:H5'	39:BE:60:ASN:CG	2.32	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:49:ILE:HG21	37:BC:208:PHE:HE1	1.73	0.54
38:BD:9:TYR:CD1	38:BD:9:TYR:N	2.72	0.54
38:BD:247:ALA:HB2	38:BD:253:GLN:HA	1.86	0.54
41:BG:135:LEU:O	41:BG:154:GLY:HA3	2.07	0.54
41:BG:180:PHE:C	41:BG:182:LYS:N	2.62	0.54
42:BH:118:PRO:HD2	42:BH:121:ILE:HB	1.89	0.54
45:BN:16:ILE:O	45:BN:54:VAL:HG13	2.08	0.54
47:BP:9:ASN:O	47:BP:10:PRO:C	2.51	0.54
50:BS:97:ARG:NH2	50:BS:98:VAL:CA	2.62	0.54
51:BT:64:ARG:NH1	51:BT:102:ILE:O	2.41	0.54
52:BU:9:VAL:O	52:BU:13:LYS:HG2	2.08	0.54
52:BU:79:PHE:CD1	52:BU:79:PHE:C	2.86	0.54
52:BU:92:ARG:NH1	53:BV:11:GLN:H	2.05	0.54
56:BY:46:LYS:H	56:BY:62:GLU:CG	2.16	0.54
57:BZ:158:PRO:O	57:BZ:159:PRO:C	2.51	0.54
1:AA:61:G:H2'	1:AA:62:U:C6	2.43	0.53
1:AA:130:A:H4'	1:AA:189(G):G:C2	2.42	0.53
1:AA:527:G:O2'	1:AA:535:A:N1	2.39	0.53
1:AA:880:C:H5	12:AL:9:GLN:NE2	2.06	0.53
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.08	0.53
3:AC:189:ALA:O	3:AC:195:VAL:HA	2.08	0.53
4:AD:123:HIS:N	4:AD:123:HIS:CD2	2.76	0.53
4:AD:199:ASN:ND2	4:AD:202:LEU:HG	2.23	0.53
6:AF:63:TYR:O	6:AF:64:GLN:HB2	2.08	0.53
10:AJ:16:LEU:CD1	10:AJ:70:ARG:HG3	2.34	0.53
15:AO:36:ILE:HG12	15:AO:59:MET:HE1	1.90	0.53
17:AQ:67:LYS:HG2	17:AQ:68:ARG:CG	2.37	0.53
18:AR:46:GLU:OE1	18:AR:46:GLU:HA	2.08	0.53
22:AV:27:U:OP1	22:AV:27:U:O4'	2.26	0.53
24:AY:170:THR:OG1	24:AY:182:VAL:HG11	2.08	0.53
24:AY:198:GLY:C	24:AY:262:ASN:ND2	2.65	0.53
24:AY:210:LEU:N	24:AY:210:LEU:CD2	2.71	0.53
24:AY:505:ALA:HB2	24:AY:511:LEU:HD12	1.91	0.53
27:B2:29:LYS:HA	27:B2:32:LEU:HB2	1.90	0.53
28:B3:31:LEU:CD2	28:B3:32:GLN:HG2	2.38	0.53
35:BA:54:G:H8	35:BA:54:G:OP2	1.90	0.53
35:BA:245:G:O3'	47:BP:71:VAL:HG23	2.08	0.53
35:BA:382:G:H2'	35:BA:383:U:H5'	1.87	0.53
35:BA:654(N):G:H2'	35:BA:654(O):G:O4'	2.08	0.53
35:BA:693:C:C1'	35:BA:1354:A:H1'	2.37	0.53
35:BA:940:G:H2'	35:BA:941:A:C4'	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1406:U:H2'	35:BA:1407:C:C1'	2.38	0.53
35:BA:1803:A:H3'	35:BA:1804:C:C5	2.43	0.53
35:BA:1805:U:H5'	38:BD:250:TRP:CZ3	2.43	0.53
35:BA:1812:A:H2	38:BD:50:THR:HG21	1.72	0.53
35:BA:1927:A:N6	35:BA:1928:A:N1	2.56	0.53
35:BA:2009:G:H5'	54:BW:40:ASN:ND2	2.22	0.53
35:BA:2122:U:C2	35:BA:2123:G:N7	2.76	0.53
35:BA:2187:G:C2'	35:BA:2188:C:H5'	2.33	0.53
35:BA:2311:A:C2'	35:BA:2312:U:C5	2.92	0.53
35:BA:2769:C:H2'	35:BA:2770:G:H8	1.71	0.53
35:BA:2773:C:H2'	35:BA:2774:C:C6	2.44	0.53
35:BA:2801(A):A:H5''	35:BA:2802:G:H5'	1.89	0.53
39:BE:44:TYR:HD2	39:BE:45:THR:O	1.91	0.53
40:BF:109:GLY:HA2	40:BF:112:MET:CB	2.38	0.53
41:BG:114:ILE:O	41:BG:114:ILE:HG23	2.08	0.53
42:BH:41:MET:HE1	42:BH:53:GLU:H	1.73	0.53
42:BH:94:TYR:CD1	42:BH:107:VAL:HB	2.43	0.53
46:BO:8:LEU:HD23	46:BO:84:ALA:CB	2.38	0.53
48:BQ:50:ALA:O	48:BQ:53:ALA:N	2.40	0.53
50:BS:54:LEU:O	50:BS:55:ALA:C	2.51	0.53
50:BS:66:ALA:HA	50:BS:69:VAL:CG1	2.39	0.53
50:BS:92:TYR:O	50:BS:93:LYS:HB3	2.08	0.53
51:BT:65:LYS:NZ	51:BT:65:LYS:HA	2.22	0.53
51:BT:133:GLU:HG2	51:BT:133:GLU:O	2.08	0.53
52:BU:97:ASP:O	52:BU:100:VAL:CB	2.55	0.53
53:BV:18:LEU:CD2	53:BV:19:LYS:H	2.21	0.53
1:AA:135:C:O2	16:AP:1:MET:HB3	2.07	0.53
1:AA:895:G:C6	1:AA:904:C:N3	2.77	0.53
1:AA:929:G:H2'	1:AA:930:C:O4'	2.09	0.53
1:AA:1031:G:O2'	1:AA:1032:G:H5'	2.08	0.53
1:AA:1151:A:H1'	1:AA:1152:A:C8	2.43	0.53
1:AA:1155:G:H2'	1:AA:1156:G:O4'	2.09	0.53
4:AD:52:SER:H	4:AD:55:ALA:HB3	1.73	0.53
4:AD:155:LEU:O	4:AD:159:ARG:HG2	2.09	0.53
6:AF:14:LEU:HD12	6:AF:18:GLN:HB2	1.89	0.53
8:AH:30:ARG:HB3	8:AH:30:ARG:CZ	2.37	0.53
8:AH:30:ARG:O	8:AH:33:GLU:HB2	2.09	0.53
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.70	0.53
12:AL:6:THR:HG1	12:AL:9:GLN:HG3	1.72	0.53
15:AO:12:ILE:HG13	15:AO:31:LEU:CD1	2.37	0.53
16:AP:71:ARG:HG2	16:AP:75:ARG:NH2	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:76:LEU:C	18:AR:78:LEU:N	2.63	0.53
24:AY:10:VAL:HG13	24:AY:360:TYR:HB2	1.89	0.53
24:AY:246:PHE:CD2	24:AY:247:LEU:CD2	2.91	0.53
26:B1:4:VAL:O	26:B1:4:VAL:HG13	2.08	0.53
30:B5:4:HIS:O	35:BA:2056:G:N2	2.41	0.53
35:BA:141:A:C6	35:BA:142:A:N6	2.76	0.53
35:BA:632:A:H2'	35:BA:633:A:H8	1.73	0.53
35:BA:1248:G:N1	52:BU:3:ARG:HD2	2.23	0.53
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.89	0.53
35:BA:1840:G:N2	35:BA:1902:C:N3	2.52	0.53
35:BA:1982:C:O5'	35:BA:1982:C:H6	1.91	0.53
35:BA:2230:G:H2'	35:BA:2231:C:C6	2.43	0.53
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.37	0.53
35:BA:2489:G:O5'	35:BA:2489:G:C8	2.53	0.53
37:BC:96:GLY:O	37:BC:97:GLU:HG2	2.08	0.53
37:BC:222:VAL:O	37:BC:224:ILE:N	2.41	0.53
38:BD:33:LEU:CG	38:BD:34:VAL:N	2.72	0.53
38:BD:73:VAL:O	38:BD:75:ILE:CD1	2.56	0.53
38:BD:124:PRO:CB	38:BD:129:ASN:ND2	2.69	0.53
38:BD:146:GLU:CB	38:BD:152:GLY:O	2.57	0.53
39:BE:34:VAL:HG11	39:BE:78:LEU:HD21	1.87	0.53
39:BE:120:TRP:NE1	39:BE:156:MET:O	2.41	0.53
42:BH:122:THR:O	42:BH:123:PHE:CD1	2.62	0.53
45:BN:63:THR:HB	45:BN:66:LYS:CE	2.38	0.53
47:BP:97:PRO:CA	47:BP:100:LEU:HD23	2.39	0.53
48:BQ:90:VAL:HG12	48:BQ:91:GLU:N	2.23	0.53
49:BR:9:LYS:C	49:BR:10:LEU:HD23	2.33	0.53
49:BR:50:HIS:O	49:BR:53:HIS:HB3	2.08	0.53
52:BU:6:THR:O	52:BU:9:VAL:HG22	2.09	0.53
56:BY:3:VAL:HG12	56:BY:3:VAL:O	2.09	0.53
1:AA:280:C:N4	17:AQ:91:ARG:HE	2.07	0.53
1:AA:550:G:C5	1:AA:551:U:C5	2.95	0.53
1:AA:693:G:H2'	1:AA:694:A:C8	2.44	0.53
1:AA:1368:G:OP1	9:AI:114:TYR:HB3	2.07	0.53
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.08	0.53
1:AA:1493:A:N3	1:AA:1493:A:C3'	2.70	0.53
1:AA:1494:G:C4	1:AA:1495:U:C5	2.97	0.53
2:AB:15:VAL:N	2:AB:16:HIS:CE1	2.76	0.53
2:AB:51:LEU:O	2:AB:55:PHE:HB2	2.08	0.53
2:AB:97:TRP:CH2	2:AB:176:GLU:CG	2.91	0.53
2:AB:131:PRO:O	2:AB:135:GLN:HG3	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:2:LEU:HD11	8:AH:8:ASP:OD2	2.07	0.53
9:AI:22:GLY:HA3	9:AI:60:ASP:OD2	2.08	0.53
14:AN:27:CYS:C	14:AN:29:ARG:H	2.16	0.53
14:AN:40:CYS:O	14:AN:41:ARG:C	2.52	0.53
24:AY:170:THR:CB	24:AY:182:VAL:CG1	2.86	0.53
24:AY:171:TRP:HB3	24:AY:172:PRO:CD	2.38	0.53
25:B0:27:GLU:HA	25:B0:67:VAL:C	2.34	0.53
25:B0:27:GLU:CD	25:B0:27:GLU:H	2.15	0.53
34:B9:16:VAL:O	34:B9:16:VAL:HG12	2.07	0.53
35:BA:28:A:H1'	35:BA:513:A:N1	2.24	0.53
35:BA:195:A:N7	35:BA:197:A:OP1	2.42	0.53
35:BA:706:A:H2'	35:BA:707:G:O4'	2.09	0.53
35:BA:893:C:H2'	35:BA:894:C:C5'	2.39	0.53
35:BA:1003:G:N3	35:BA:1010:A:C2	2.76	0.53
35:BA:1144:G:H2'	35:BA:1145:C:C6	2.43	0.53
35:BA:1275:A:N7	49:BR:13:HIS:CE1	2.76	0.53
35:BA:1747:G:C4	35:BA:1747(A):G:C8	2.96	0.53
35:BA:2077:A:H2'	35:BA:2078:C:H6	1.73	0.53
35:BA:2145:C:OP2	35:BA:2146:C:H5	1.92	0.53
35:BA:2393:A:C5	35:BA:2394:C:C5	2.97	0.53
36:BB:87:G:H2'	36:BB:88:C:H5''	1.91	0.53
37:BC:40:THR:O	37:BC:216:THR:HG22	2.08	0.53
37:BC:75:LEU:HD12	37:BC:76:ALA:N	2.23	0.53
38:BD:136:ILE:CD1	38:BD:191:ALA:HB3	2.38	0.53
38:BD:263:ARG:CG	38:BD:263:ARG:NH1	2.61	0.53
39:BE:135:HIS:O	39:BE:136:ARG:HG2	2.08	0.53
39:BE:199:ARG:HG2	39:BE:200:GLU:H	1.72	0.53
40:BF:162:LEU:H	40:BF:162:LEU:CD1	2.18	0.53
49:BR:6:SER:OG	49:BR:8:ARG:NH2	2.36	0.53
50:BS:74:ALA:HB1	50:BS:103:GLU:HG3	1.89	0.53
52:BU:79:PHE:CE1	52:BU:83:LEU:HD11	2.43	0.53
54:BW:20:VAL:O	54:BW:23:LEU:HB3	2.09	0.53
1:AA:186:C:H2'	1:AA:187:C:C6	2.43	0.53
1:AA:280:C:N4	17:AQ:91:ARG:HH21	2.05	0.53
1:AA:437:U:H5''	4:AD:155:LEU:HD21	1.90	0.53
1:AA:796:C:N3	1:AA:797:C:C5	2.76	0.53
1:AA:1107:C:OP1	3:AC:174:PRO:HG3	2.08	0.53
1:AA:1418:A:C8	1:AA:1419:G:C1'	2.92	0.53
1:AA:1442(A):G:N2	51:BT:121:ILE:O	2.42	0.53
2:AB:12:GLU:O	2:AB:13:ALA:C	2.50	0.53
2:AB:222:ILE:HD13	2:AB:222:ILE:N	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:120:VAL:O	3:AC:121:ALA:C	2.51	0.53
6:AF:22:GLU:O	6:AF:23:LYS:C	2.49	0.53
7:AG:99:LEU:O	7:AG:100:ALA:C	2.52	0.53
8:AH:114:THR:HG22	8:AH:130:GLY:O	2.09	0.53
9:AI:114:TYR:HE2	10:AJ:60:ARG:N	2.07	0.53
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB2	2.38	0.53
16:AP:69:THR:HA	16:AP:72:ARG:CB	2.37	0.53
24:AY:79:TYR:CG	24:AY:80:HIS:N	2.76	0.53
24:AY:269:LEU:O	24:AY:273:VAL:CG2	2.57	0.53
25:B0:36:ILE:HD11	35:BA:2355:C:C1'	2.39	0.53
25:B0:45:PHE:HD1	25:B0:77:ARG:O	1.92	0.53
28:B3:3:ARG:HB2	28:B3:59:VAL:C	2.33	0.53
30:B5:19:ARG:HG3	35:BA:2046:G:H5'	1.89	0.53
33:B8:5:LYS:HG2	35:BA:242:G:C8	2.43	0.53
35:BA:15:G:H2'	35:BA:16:G:C8	2.44	0.53
35:BA:483:A:H4'	56:BY:48:ALA:C	2.33	0.53
35:BA:662:G:C2	35:BA:663:G:N7	2.76	0.53
35:BA:810:U:OP1	35:BA:1253:A:N7	2.42	0.53
35:BA:1133:U:H5	35:BA:2026:C:HO2'	1.55	0.53
35:BA:1827:C:H2'	35:BA:1828:G:C8	2.43	0.53
35:BA:1844:C:C2	35:BA:1845:G:C8	2.96	0.53
35:BA:2251:G:C8	35:BA:2450:A:H4'	2.44	0.53
35:BA:2314:C:OP1	41:BG:38:VAL:HG11	2.07	0.53
35:BA:2447:G:C5	35:BA:2501:C:C2	2.97	0.53
35:BA:2521:C:C2	35:BA:2545:G:C2	2.96	0.53
35:BA:2688:U:H6	35:BA:2721:A:H62	1.55	0.53
35:BA:2872:G:O2'	35:BA:2873:A:H5'	2.09	0.53
38:BD:53:PHE:HE2	38:BD:220:HIS:CE1	2.27	0.53
38:BD:80:ALA:CB	38:BD:96:HIS:CD2	2.90	0.53
38:BD:148:GLU:C	38:BD:189:CYS:SG	2.92	0.53
40:BF:63:LYS:NZ	40:BF:65:TRP:O	2.41	0.53
40:BF:90:PHE:O	40:BF:91:GLY:O	2.27	0.53
41:BG:167:GLU:CD	41:BG:167:GLU:H	2.17	0.53
47:BP:149:GLU:O	47:BP:150:ALA:HB2	2.08	0.53
49:BR:35:THR:HG23	49:BR:112:ALA:O	2.08	0.53
51:BT:28:VAL:CG1	51:BT:46:GLU:HA	2.39	0.53
51:BT:108:ARG:HB3	51:BT:111:ARG:CZ	2.36	0.53
53:BV:15:GLU:O	53:BV:16:PRO:C	2.52	0.53
56:BY:31:LEU:HB2	56:BY:32:PRO:HA	1.90	0.53
1:AA:273:A:N1	1:AA:274:A:C2	2.76	0.53
1:AA:681:C:H4'	38:BD:174:ILE:CD1	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:740:U:OP1	15:AO:38:ARG:HG3	2.09	0.53
1:AA:863:U:C5	1:AA:867:G:N1	2.77	0.53
1:AA:979:C:C2	1:AA:1318:A:N6	2.75	0.53
1:AA:1165:C:O2'	1:AA:1166:G:H5'	2.08	0.53
1:AA:1290:G:O2'	9:AI:40:LEU:HD21	2.09	0.53
1:AA:1484:C:H4'	35:BA:1961:C:H4'	1.89	0.53
3:AC:31:HIS:O	3:AC:32:LEU:C	2.52	0.53
3:AC:53:ALA:CB	3:AC:114:PRO:HB2	2.38	0.53
5:AE:63:ARG:CA	5:AE:66:MET:HE2	2.38	0.53
7:AG:64:GLN:NE2	7:AG:68:ASN:ND2	2.56	0.53
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.42	0.53
10:AJ:89:ASP:CB	10:AJ:91:PRO:HD3	2.39	0.53
10:AJ:90:LEU:H	10:AJ:91:PRO:CD	2.18	0.53
13:AM:15:VAL:HG13	13:AM:43:THR:O	2.09	0.53
14:AN:12:ARG:NH1	14:AN:14:PRO:CG	2.67	0.53
19:AS:29:ARG:O	19:AS:48:THR:O	2.26	0.53
19:AS:47:HIS:O	19:AS:61:TYR:O	2.27	0.53
21:AU:13:ILE:O	21:AU:14:TRP:C	2.52	0.53
24:AY:10:VAL:C	24:AY:279:PRO:CD	2.81	0.53
24:AY:22:PRO:O	24:AY:23:ASP:C	2.51	0.53
24:AY:141:MET:O	24:AY:257:GLY:O	2.25	0.53
24:AY:142:ASN:OD1	58:AY:1000:GCP:O6	2.27	0.53
24:AY:155:LEU:C	24:AY:158:VAL:HG23	2.33	0.53
24:AY:168:PRO:HB3	24:AY:171:TRP:CE2	2.42	0.53
24:AY:445:GLN:C	24:AY:448:VAL:HB	2.32	0.53
26:B1:3:LYS:HA	35:BA:1365:A:OP2	2.08	0.53
27:B2:51:ARG:HB2	27:B2:55:ARG:NH1	2.23	0.53
31:B6:19:ARG:O	31:B6:20:ASN:O	2.25	0.53
35:BA:185:U:H4'	35:BA:218:A:H4'	1.91	0.53
35:BA:586:A:H2	35:BA:809:G:N3	2.06	0.53
35:BA:702:G:O2'	35:BA:703:U:H5'	2.09	0.53
35:BA:906:G:O2'	48:BQ:67:ARG:NH1	2.41	0.53
35:BA:973:A:H5'	35:BA:1188:U:H1'	1.90	0.53
35:BA:1000:A:C2	35:BA:1155:A:C5	2.97	0.53
35:BA:1087:G:O2'	35:BA:1089:G:H5'	2.09	0.53
35:BA:1356:G:O2'	35:BA:1357:U:H5'	2.09	0.53
35:BA:1791:A:C6	35:BA:1829:A:H5'	2.43	0.53
35:BA:1939:U:O2	35:BA:2592:G:H5'	2.07	0.53
35:BA:2690:C:OP2	49:BR:14:SER:OG	2.24	0.53
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.43	0.53
35:BA:2756:U:H1'	35:BA:2757:A:H5''	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:30:LYS:HD3	37:BC:185:LEU:CD1	2.38	0.53
37:BC:42:GLU:N	37:BC:215:THR:O	2.39	0.53
37:BC:222:VAL:O	37:BC:224:ILE:HG23	2.09	0.53
38:BD:75:ILE:O	38:BD:118:VAL:CG2	2.57	0.53
38:BD:134:ARG:HG2	38:BD:135:PHE:CD1	2.44	0.53
39:BE:170:LEU:HD21	39:BE:187:ALA:O	2.09	0.53
40:BF:37:VAL:HG12	40:BF:38:ARG:N	2.24	0.53
40:BF:127:GLU:HB2	40:BF:196:LEU:HD12	1.90	0.53
47:BP:88:LEU:HD11	47:BP:95:VAL:HG21	1.91	0.53
48:BQ:55:VAL:O	48:BQ:58:PHE:O	2.27	0.53
49:BR:71:GLN:HA	49:BR:71:GLN:NE2	2.22	0.53
50:BS:17:ARG:O	50:BS:20:ARG:HB2	2.09	0.53
53:BV:81:TYR:C	53:BV:82:ARG:HD2	2.33	0.53
53:BV:91:TYR:CD1	53:BV:91:TYR:C	2.86	0.53
55:BX:41:ASN:O	55:BX:45:THR:OG1	2.27	0.53
56:BY:28:LYS:HG2	56:BY:39:VAL:CA	2.39	0.53
57:BZ:151:HIS:CD2	57:BZ:170:THR:HA	2.43	0.53
57:BZ:151:HIS:HD2	57:BZ:170:THR:HG23	1.73	0.53
1:AA:179:A:O2'	1:AA:180:U:H5'	2.08	0.53
1:AA:266:G:H5''	1:AA:267:C:C5	2.44	0.53
1:AA:398:C:O2'	1:AA:399:G:H5'	2.09	0.53
1:AA:769:G:H22	1:AA:811:C:H1'	1.73	0.53
1:AA:778:G:C2'	1:AA:779:C:O4'	2.57	0.53
1:AA:973:G:H2'	1:AA:974:A:OP1	2.07	0.53
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.91	0.53
1:AA:1057:G:C2'	1:AA:1058:G:H5'	2.39	0.53
1:AA:1183:A:HO2'	1:AA:1184:G:P	2.31	0.53
1:AA:1294:G:O2'	1:AA:1295:G:H5'	2.08	0.53
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.70	0.53
3:AC:51:GLY:O	3:AC:70:VAL:HG13	2.08	0.53
3:AC:117:ALA:O	3:AC:187:ALA:HB2	2.09	0.53
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.89	0.53
10:AJ:54:PHE:CE1	10:AJ:55:LYS:NZ	2.76	0.53
13:AM:82:MET:O	13:AM:83:ASP:O	2.26	0.53
17:AQ:26:GLN:HE21	17:AQ:37:LYS:HD3	1.74	0.53
19:AS:23:ASN:CB	29:B4:47:GLN:CG	2.86	0.53
24:AY:103:LEU:CD2	24:AY:109:CYS:SG	2.97	0.53
24:AY:139:THR:HB	24:AY:254:VAL:HA	1.90	0.53
24:AY:139:THR:O	24:AY:255:PHE:N	2.34	0.53
24:AY:282:ARG:HG3	24:AY:319:ARG:NH1	2.23	0.53
24:AY:310:LYS:C	24:AY:311:HIS:CD2	2.87	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:62:LEU:C	25:B0:63:VAL:HG22	2.34	0.53
26:B1:76:ARG:HH22	26:B1:95:LEU:CD1	2.21	0.53
27:B2:54:LYS:O	27:B2:57:ILE:HB	2.09	0.53
29:B4:26:SER:HB3	41:BG:105:LYS:HE3	1.91	0.53
35:BA:130:C:O3'	35:BA:1349:A:H1'	2.08	0.53
35:BA:252:G:O2'	35:BA:253:C:C5'	2.57	0.53
35:BA:673:C:H6	35:BA:673:C:C5'	2.19	0.53
35:BA:692:C:H2'	35:BA:693:C:C6	2.38	0.53
35:BA:770:G:N3	35:BA:1354:A:C2	2.73	0.53
35:BA:849:A:C8	35:BA:850:C:C5	2.96	0.53
35:BA:1064:C:C3'	35:BA:1065:U:H5''	2.38	0.53
35:BA:1297:C:P	35:BA:2710:C:H4'	2.49	0.53
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.09	0.53
35:BA:1744:C:H5''	35:BA:1744:C:H6	1.73	0.53
35:BA:2423:U:H6	35:BA:2423:U:C5'	2.22	0.53
35:BA:2628:C:OP1	35:BA:2629:A:H5''	2.09	0.53
35:BA:2666:C:C5	35:BA:2667:C:C4	2.96	0.53
35:BA:2812:G:N2	35:BA:2889:C:C2	2.77	0.53
36:BB:57:A:C2	36:BB:58:A:N9	2.77	0.53
37:BC:23:ASP:O	37:BC:27:HIS:N	2.41	0.53
37:BC:29:VAL:HG12	37:BC:222:VAL:CG2	2.38	0.53
37:BC:37:PHE:CE1	37:BC:217:THR:HG21	2.43	0.53
38:BD:183:ARG:HG3	38:BD:270:ILE:HG23	1.89	0.53
38:BD:201:HIS:ND1	38:BD:201:HIS:O	2.41	0.53
39:BE:4:ILE:HG23	39:BE:198:VAL:HB	1.90	0.53
39:BE:138:PRO:CD	39:BE:139:GLY:H	2.21	0.53
40:BF:82:ILE:CG1	40:BF:83:PHE:H	2.21	0.53
40:BF:195:ASP:CB	40:BF:198:ALA:HB3	2.37	0.53
41:BG:11:TYR:HA	41:BG:15:VAL:HG23	1.90	0.53
42:BH:66:GLY:CA	42:BH:69:ARG:HB2	2.39	0.53
45:BN:116:LEU:O	45:BN:117:PHE:C	2.51	0.53
45:BN:133:GLN:CG	45:BN:135:PRO:HD3	2.24	0.53
47:BP:20:GLY:O	47:BP:21:ARG:HB2	2.09	0.53
48:BQ:46:GLN:C	48:BQ:49:ALA:HB3	2.33	0.53
54:BW:33:ARG:C	54:BW:34:ASN:HD22	2.15	0.53
56:BY:54:LYS:HE3	56:BY:55:TYR:CD2	2.44	0.53
1:AA:77:G:H5'	1:AA:78:G:OP2	2.08	0.53
1:AA:102:G:H2'	1:AA:103:C:H6	1.74	0.53
1:AA:112:G:C4'	1:AA:389:A:H4'	2.37	0.53
1:AA:255:G:H1'	17:AQ:16:GLN:HE22	1.74	0.53
1:AA:412:A:C2	4:AD:35:ARG:HG3	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:532:A:H2	3:AC:156:ARG:HH22	1.56	0.53
1:AA:826:C:H1'	8:AH:15:ASN:ND2	2.24	0.53
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.73	0.53
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.44	0.53
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.23	0.53
1:AA:1253:G:N1	1:AA:1285:A:N6	2.56	0.53
1:AA:1351:U:N3	1:AA:1352:C:H5	2.07	0.53
2:AB:164:VAL:HG12	2:AB:166:ASP:N	2.24	0.53
5:AE:36:ASP:CG	5:AE:40:ARG:HB2	2.33	0.53
5:AE:145:LYS:O	5:AE:148:VAL:HB	2.09	0.53
5:AE:150:ARG:O	5:AE:150:ARG:HG2	2.08	0.53
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.09	0.53
16:AP:19:ILE:N	16:AP:19:ILE:HD13	2.24	0.53
17:AQ:62:SER:HB3	17:AQ:72:ARG:HG3	1.90	0.53
22:AV:48:C:C5'	22:AV:49:G:H5''	2.39	0.53
24:AY:169:ILE:O	24:AY:170:THR:CG2	2.56	0.53
28:B3:40:THR:O	28:B3:41:PRO:C	2.51	0.53
31:B6:7:ILE:HB	31:B6:27:LYS:NZ	2.23	0.53
35:BA:271(Y):U:OP1	35:BA:272(D):G:C5'	2.55	0.53
35:BA:895:U:H3'	35:BA:896:A:H5''	1.90	0.53
35:BA:928:G:H8	35:BA:928:G:O5'	1.92	0.53
35:BA:1010:A:H8	35:BA:1010:A:O5'	1.91	0.53
35:BA:1428:C:H2'	35:BA:1569:A:OP1	2.09	0.53
35:BA:1754:C:N4	35:BA:1755:A:N6	2.56	0.53
35:BA:2000:G:H2'	35:BA:2001:A:H8	1.73	0.53
35:BA:2102:U:C5	35:BA:2103:C:C4	2.97	0.53
35:BA:2760:C:C2'	35:BA:2761:G:H5''	2.39	0.53
35:BA:2796:U:O2'	35:BA:2799:C:H5'	2.09	0.53
36:BB:50:G:P	50:BS:63:THR:HG23	2.49	0.53
37:BC:56:GLN:HG2	37:BC:204:ALA:HB2	1.89	0.53
37:BC:67:GLY:N	37:BC:188:ASN:HD21	2.06	0.53
38:BD:90:ALA:CB	38:BD:106:ILE:CG2	2.86	0.53
39:BE:144:ARG:CG	39:BE:145:LYS:N	2.69	0.53
45:BN:23:LEU:HB2	45:BN:99:LEU:CD2	2.38	0.53
45:BN:52:VAL:O	45:BN:53:VAL:CG2	2.56	0.53
46:BO:62:VAL:HG12	46:BO:63:VAL:N	2.24	0.53
50:BS:26:LEU:HD23	50:BS:27:SER:O	2.07	0.53
52:BU:75:ASN:O	52:BU:76:TYR:C	2.50	0.53
52:BU:95:LEU:CD1	53:BV:4:ILE:HG23	2.37	0.53
56:BY:8:LYS:HE2	56:BY:72:VAL:HG23	1.91	0.53
57:BZ:39:VAL:HB	57:BZ:43:GLU:OE2	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:431:A:H2'	1:AA:432:A:C8	2.43	0.53
1:AA:653:A:O5'	8:AH:56:LYS:HE3	2.09	0.53
1:AA:762:C:H2'	1:AA:763:G:H8	1.72	0.53
1:AA:909:A:P	12:AL:21:LYS:NZ	2.82	0.53
1:AA:928:G:H8	1:AA:928:G:O5'	1.91	0.53
1:AA:979:C:H1'	1:AA:1318:A:N1	2.24	0.53
1:AA:1047:G:O3'	14:AN:4:LYS:HB3	2.07	0.53
1:AA:1075:C:C4'	1:AA:1101:A:N6	2.72	0.53
1:AA:1288:A:H1'	1:AA:1353:G:O4'	2.08	0.53
1:AA:1304:G:C1'	1:AA:1334:G:H22	2.21	0.53
1:AA:1375:A:C2	1:AA:1376:U:C2	2.97	0.53
2:AB:118:LEU:HB3	2:AB:142:LEU:CD1	2.38	0.53
3:AC:179:ARG:HD2	3:AC:207:VAL:HA	1.91	0.53
4:AD:19:LEU:CG	4:AD:21:LEU:HD21	2.38	0.53
4:AD:89:THR:HA	4:AD:92:VAL:CB	2.34	0.53
5:AE:30:ALA:HB3	5:AE:54:ALA:O	2.08	0.53
8:AH:90:GLY:O	8:AH:91:ARG:HB2	2.07	0.53
11:AK:32:ILE:HD11	11:AK:68:ALA:O	2.08	0.53
14:AN:58:LYS:O	14:AN:59:ALA:C	2.51	0.53
20:AT:25:ARG:O	20:AT:29:LYS:HG3	2.09	0.53
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.91	0.53
22:AV:32:C:C2'	22:AV:33:U:H5''	2.39	0.53
22:AV:64:G:C2	22:AV:65:C:C2	2.97	0.53
24:AY:158:VAL:HG12	24:AY:162:LEU:HB3	1.91	0.53
24:AY:485:PHE:O	24:AY:489:ASN:O	2.25	0.53
34:B9:35:ARG:NE	34:B9:35:ARG:O	2.42	0.53
35:BA:106:C:H2'	35:BA:107:C:C6	2.44	0.53
35:BA:176:G:C2'	35:BA:177:G:H5'	2.38	0.53
35:BA:476:G:O4'	35:BA:505:A:C2	2.62	0.53
35:BA:811:U:H2'	47:BP:24:GLY:O	2.08	0.53
35:BA:818:G:O5'	35:BA:818:G:C8	2.54	0.53
35:BA:874:G:C2	35:BA:875:G:C4	2.97	0.53
35:BA:962:G:C2	35:BA:963:U:N1	2.77	0.53
35:BA:989:G:H5'	35:BA:1157:G:C4'	2.30	0.53
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.43	0.53
35:BA:2120:G:H1	35:BA:2177:C:H42	1.57	0.53
35:BA:2701:C:H2'	35:BA:2702:U:H2'	1.90	0.53
35:BA:2735:G:H2'	35:BA:2736:G:C8	2.41	0.53
36:BB:54:G:H21	36:BB:55:U:C1'	2.22	0.53
36:BB:93:G:N2	36:BB:94:C:C2	2.77	0.53
37:BC:175:VAL:CG2	37:BC:189:ILE:HG12	2.17	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:20:ASP:OD2	38:BD:22:SER:OG	2.19	0.53
38:BD:43:ARG:NH1	38:BD:49:ILE:HD11	2.22	0.53
38:BD:65:ILE:HB	38:BD:67:PHE:CZ	2.44	0.53
38:BD:80:ALA:HB1	38:BD:96:HIS:NE2	2.23	0.53
40:BF:51:THR:O	40:BF:52:LYS:HG3	2.08	0.53
46:BO:66:LYS:HE3	46:BO:80:ASP:HA	1.90	0.53
48:BQ:109:VAL:HG12	48:BQ:113:GLN:HB2	1.91	0.53
54:BW:43:GLY:C	54:BW:45:TYR:N	2.67	0.53
55:BX:20:GLY:O	55:BX:25:LYS:O	2.26	0.53
57:BZ:28:MET:O	57:BZ:29:TYR:HB3	2.08	0.53
57:BZ:33:LEU:CD1	57:BZ:34:ASN:N	2.53	0.53
1:AA:101:A:C2'	1:AA:102:G:O5'	2.57	0.53
1:AA:556:C:O2'	1:AA:557:G:H5'	2.08	0.53
1:AA:1223:C:OP2	19:AS:78:ARG:NH2	2.41	0.53
1:AA:1367:C:H5'	10:AJ:60:ARG:NH2	2.24	0.53
2:AB:61:LEU:O	2:AB:62:ALA:C	2.51	0.53
2:AB:168:THR:HG23	2:AB:192:SER:HA	1.90	0.53
4:AD:170:VAL:O	4:AD:171:GLY:C	2.51	0.53
5:AE:6:PHE:HB2	5:AE:34:VAL:CG2	2.38	0.53
7:AG:69:VAL:HG11	7:AG:104:LEU:CD2	2.39	0.53
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.44	0.53
13:AM:81:LEU:C	13:AM:93:ARG:HH11	2.17	0.53
15:AO:69:TYR:HA	15:AO:72:ARG:HB2	1.90	0.53
16:AP:28:ARG:NH1	16:AP:29:ASP:OD1	2.42	0.53
16:AP:80:PHE:N	16:AP:80:PHE:CD1	2.76	0.53
22:AV:24:U:C2'	22:AV:25:C:H5'	2.38	0.53
24:AY:194:GLN:CB	24:AY:202:GLN:HG2	2.39	0.53
24:AY:391:PRO:O	24:AY:392:ASN:HB3	2.08	0.53
24:AY:515:GLN:HB3	24:AY:523:PHE:CG	2.44	0.53
25:B0:72:ARG:HD3	36:BB:11:C:OP2	2.09	0.53
26:B1:48:LYS:HZ2	26:B1:61:ARG:N	2.06	0.53
26:B1:78:LYS:HG3	26:B1:79:GLY:H	1.74	0.53
27:B2:30:ARG:CZ	55:BX:5:TYR:OH	2.57	0.53
35:BA:70:G:H21	35:BA:71:A:H62	1.57	0.53
35:BA:107:C:H2'	35:BA:108:U:C6	2.44	0.53
35:BA:257:A:C2'	35:BA:258:G:H5'	2.38	0.53
35:BA:310:A:P	56:BY:18:GLY:HA2	2.49	0.53
35:BA:483:A:H1'	56:BY:60:PHE:CE1	2.44	0.53
35:BA:589:C:H2'	35:BA:590:A:C8	2.36	0.53
35:BA:868:U:O5'	35:BA:868:U:H6	1.92	0.53
35:BA:974:G:C6	35:BA:1186:G:C6	2.97	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.05	0.53
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.38	0.53
35:BA:1332:G:N2	35:BA:1609:A:O2'	2.42	0.53
35:BA:1549:C:H5''	35:BA:1549:C:H6	1.74	0.53
35:BA:1842:G:C4	35:BA:1901:A:C2	2.97	0.53
35:BA:2030:A:H4'	35:BA:2031:A:C8	2.44	0.53
35:BA:2352:A:H2'	35:BA:2353:G:H5'	1.90	0.53
35:BA:2435:A:C6	35:BA:2436:G:C5	2.97	0.53
35:BA:2574:G:H2'	35:BA:2575:C:C6	2.44	0.53
35:BA:2588:G:C6	35:BA:2607:G:C2	2.97	0.53
35:BA:2823:A:H2'	35:BA:2824:C:O4'	2.09	0.53
36:BB:16:G:O2'	36:BB:17:C:H6	1.92	0.53
36:BB:40:U:O2	36:BB:43:C:H5''	2.09	0.53
37:BC:37:PHE:O	37:BC:39:GLU:OE2	2.26	0.53
37:BC:98:GLU:O	37:BC:98:GLU:HG3	2.09	0.53
38:BD:71:ASP:CG	38:BD:103:ARG:NH1	2.65	0.53
38:BD:87:ASN:CB	38:BD:88:ARG:NH2	2.69	0.53
38:BD:146:GLU:HB2	38:BD:152:GLY:O	2.09	0.53
38:BD:147:LEU:CD1	38:BD:155:LEU:CD1	2.87	0.53
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	2.23	0.53
39:BE:45:THR:HG22	39:BE:46:ALA:N	2.24	0.53
40:BF:155:LEU:O	40:BF:193:VAL:N	2.38	0.53
41:BG:37:VAL:HG13	41:BG:158:ALA:O	2.08	0.53
43:BJ:100:UNK:CB	43:BJ:132:UNK:CB	2.87	0.53
46:BO:64:ARG:NH1	46:BO:81:ASP:OD2	2.42	0.53
47:BP:111:ARG:HA	47:BP:128:HIS:HD2	1.72	0.53
48:BQ:4:PRO:CG	48:BQ:7:MET:HE2	2.39	0.53
48:BQ:113:GLN:O	48:BQ:114:ALA:C	2.52	0.53
51:BT:13:ARG:HA	51:BT:13:ARG:CZ	2.39	0.53
52:BU:91:ASP:O	52:BU:92:ARG:O	2.26	0.53
1:AA:405:U:H5''	1:AA:495:A:C2	2.43	0.53
1:AA:437:U:H5''	4:AD:155:LEU:CD2	2.39	0.53
1:AA:458:C:C2'	1:AA:460:G:H5'	2.39	0.53
1:AA:618:C:H42	1:AA:623:C:N4	2.04	0.53
1:AA:658:G:H5''	15:AO:31:LEU:CD2	2.38	0.53
1:AA:1234:C:O4'	1:AA:1364:U:H1'	2.09	0.53
1:AA:1286:A:H1'	1:AA:1287:A:H4'	1.90	0.53
1:AA:1398:A:H61	5:AE:22:GLY:N	2.05	0.53
2:AB:71:VAL:N	2:AB:163:PHE:O	2.42	0.53
7:AG:24:THR:CA	7:AG:27:ILE:HB	2.37	0.53
8:AH:2:LEU:HD21	8:AH:8:ASP:HB2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:14:ARG:O	8:AH:15:ASN:C	2.52	0.53
12:AL:36:VAL:HB	12:AL:82:VAL:HA	1.91	0.53
15:AO:25:THR:OG1	15:AO:26:GLU:N	2.41	0.53
17:AQ:46:ASP:CG	17:AQ:51:TYR:HD2	2.17	0.53
19:AS:11:VAL:HG23	19:AS:38:SER:CB	2.30	0.53
19:AS:16:LEU:C	19:AS:18:LYS:N	2.64	0.53
19:AS:20:LEU:HD22	19:AS:23:ASN:ND2	2.24	0.53
22:AV:17(A):U:HO2'	22:AV:18:G:H4'	1.72	0.53
22:AV:47:U:O2	22:AV:47:U:C3'	2.57	0.53
24:AY:84:VAL:HG12	24:AY:85:ASN:N	2.23	0.53
24:AY:296:PHE:CD2	24:AY:331:LEU:HD21	2.44	0.53
29:B4:7:PRO:HG2	41:BG:65:GLY:HA2	1.90	0.53
35:BA:70:G:H2'	35:BA:113:G:O2'	2.08	0.53
35:BA:203:C:C5'	35:BA:204:A:H5''	2.39	0.53
35:BA:331:A:N6	35:BA:1209:G:H2'	2.24	0.53
35:BA:496:G:C1'	54:BW:61:ASN:ND2	2.71	0.53
35:BA:515:A:C2'	35:BA:516:C:H5'	2.37	0.53
35:BA:638:G:C6	35:BA:639:U:C4	2.97	0.53
35:BA:650:C:H3'	35:BA:651:G:H5''	1.91	0.53
35:BA:855:G:N2	35:BA:923:C:O2	2.42	0.53
35:BA:1598:C:O3'	55:BX:35:THR:HG23	2.08	0.53
35:BA:1665:A:C5'	46:BO:66:LYS:O	2.57	0.53
35:BA:1953:A:C2	35:BA:2550:G:O4'	2.62	0.53
35:BA:2345:G:N3	35:BA:2381:C:H2'	2.23	0.53
35:BA:2723:C:O3'	49:BR:2:ARG:NH2	2.41	0.53
36:BB:18:G:H2'	36:BB:19:G:H8	1.74	0.53
38:BD:260:ARG:HG2	38:BD:261:LYS:O	2.09	0.53
39:BE:200:GLU:N	39:BE:200:GLU:OE1	2.42	0.53
40:BF:64:ILE:CG2	40:BF:65:TRP:N	2.72	0.53
40:BF:84:VAL:O	40:BF:85:GLY:C	2.48	0.53
40:BF:174:VAL:HG12	40:BF:176:LEU:HD11	1.90	0.53
45:BN:56:ASN:H	45:BN:125:GLY:N	2.07	0.53
45:BN:57:ALA:O	45:BN:58:ASP:O	2.27	0.53
46:BO:17:ARG:NH2	46:BO:99:PHE:HE2	2.07	0.53
47:BP:89:ALA:HA	47:BP:121:LYS:HD3	1.91	0.53
48:BQ:48:GLU:CA	48:BQ:51:ARG:HB3	2.38	0.53
48:BQ:128:LYS:O	48:BQ:129:THR:HG23	2.08	0.53
52:BU:79:PHE:CE1	52:BU:83:LEU:CD1	2.92	0.53
53:BV:21:ARG:HG2	53:BV:91:TYR:CD2	2.44	0.53
55:BX:20:GLY:C	55:BX:22:ALA:H	2.17	0.53
55:BX:24:GLY:H	55:BX:82:GLN:HE22	1.55	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:133:ILE:O	57:BZ:134:PRO:C	2.50	0.53
57:BZ:153:SER:HA	57:BZ:155:LEU:HD23	1.90	0.53
1:AA:197:A:N6	1:AA:221:C:C4'	2.67	0.52
1:AA:298:A:H3'	1:AA:299:G:C8	2.44	0.52
1:AA:664:G:N2	1:AA:742:G:N2	2.56	0.52
1:AA:901:A:H2'	1:AA:902:G:H5'	1.91	0.52
1:AA:960:U:C5	19:AS:78:ARG:HD3	2.44	0.52
1:AA:1005:A:H4'	1:AA:1037:C:O2	2.09	0.52
1:AA:1265:G:H2'	1:AA:1266:G:H8	1.73	0.52
1:AA:1324:A:H8	1:AA:1324:A:OP2	1.92	0.52
1:AA:1505:G:H5''	1:AA:1506:U:OP1	2.09	0.52
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.39	0.52
3:AC:80:GLY:C	3:AC:82:GLU:H	2.17	0.52
4:AD:59:ARG:HH11	4:AD:59:ARG:CG	2.22	0.52
5:AE:24:ARG:HH11	5:AE:24:ARG:CG	2.21	0.52
19:AS:49:ILE:O	19:AS:60:VAL:HG12	2.09	0.52
19:AS:72:GLY:O	19:AS:74:PHE:N	2.42	0.52
20:AT:50:GLU:O	20:AT:53:LEU:N	2.42	0.52
24:AY:144:LEU:O	24:AY:179:PHE:CG	2.61	0.52
24:AY:216:ASP:HA	24:AY:224:ALA:HB2	1.86	0.52
26:B1:29:GLY:O	26:B1:31:GLY:N	2.40	0.52
26:B1:44:PRO:HA	35:BA:396:G:O3'	2.09	0.52
26:B1:54:ALA:CB	26:B1:56:GLN:HE21	2.21	0.52
27:B2:56:GLN:O	27:B2:59:ARG:HG3	2.08	0.52
28:B3:5:LYS:HD2	28:B3:57:GLU:OE1	2.09	0.52
29:B4:5:ILE:HD13	29:B4:5:ILE:N	2.23	0.52
31:B6:11:LEU:HD13	31:B6:12:GLU:N	2.24	0.52
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.24	0.52
35:BA:85:G:O5'	56:BY:30:VAL:HB	2.08	0.52
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.91	0.52
35:BA:716:A:H2'	35:BA:717:G:O5'	2.09	0.52
35:BA:983:A:H2'	35:BA:984:A:O4'	2.09	0.52
35:BA:1651:G:H2'	35:BA:1652:A:C8	2.44	0.52
35:BA:1813:G:N3	38:BD:50:THR:OG1	2.37	0.52
35:BA:1832:C:C4	35:BA:1833:U:C5	2.96	0.52
35:BA:1839:G:H8	35:BA:1839:G:H5'	1.74	0.52
35:BA:1991:U:C6	35:BA:1991:U:H5''	2.44	0.52
35:BA:2189:U:H2'	35:BA:2190:G:H4'	1.91	0.52
35:BA:2262:U:C4'	35:BA:2328:A:C2	2.86	0.52
35:BA:2271:G:O2'	35:BA:2272:U:H5'	2.09	0.52
35:BA:2374:C:H2'	35:BA:2375:G:O4'	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2603:G:H21	35:BA:2604:U:H1'	1.74	0.52
35:BA:2850:A:C2	49:BR:61:HIS:CD2	2.98	0.52
36:BB:66:A:C6	36:BB:108:U:C4	2.97	0.52
38:BD:87:ASN:ND2	38:BD:88:ARG:CZ	2.71	0.52
39:BE:37:ARG:HH11	39:BE:42:ASP:CG	2.16	0.52
39:BE:45:THR:CG2	39:BE:46:ALA:N	2.72	0.52
40:BF:164:ARG:O	40:BF:165:ARG:C	2.52	0.52
41:BG:101:ILE:O	41:BG:104:GLU:HB3	2.08	0.52
41:BG:111:LEU:H	41:BG:112:PRO:HD2	1.73	0.52
41:BG:120:LEU:HD12	41:BG:179:PRO:HD2	1.91	0.52
42:BH:126:PRO:O	42:BH:127:GLU:CB	2.56	0.52
45:BN:6:PRO:O	45:BN:9:VAL:CG2	2.58	0.52
47:BP:17:LYS:C	47:BP:19:VAL:H	2.16	0.52
49:BR:2:ARG:HG3	49:BR:2:ARG:NH1	2.22	0.52
51:BT:120:ARG:O	51:BT:123:GLN:HG2	2.08	0.52
53:BV:31:ALA:O	53:BV:61:VAL:CG2	2.54	0.52
57:BZ:28:MET:HE1	57:BZ:35:ARG:CB	2.39	0.52
1:AA:15:G:C5	1:AA:16:A:N7	2.78	0.52
1:AA:357:G:OP1	1:AA:367:U:H5''	2.09	0.52
1:AA:518:C:C5	1:AA:530:G:C8	2.98	0.52
1:AA:868:C:O2'	1:AA:869:G:H5'	2.08	0.52
1:AA:1188:A:H8	1:AA:1188:A:O5'	1.91	0.52
1:AA:1254:C:H5'	1:AA:1356:G:H4'	1.91	0.52
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.72	0.52
1:AA:1494:G:C5	1:AA:1495:U:C5	2.97	0.52
2:AB:11:LEU:O	2:AB:16:HIS:CE1	2.62	0.52
2:AB:80:ILE:HD12	2:AB:80:ILE:N	2.16	0.52
10:AJ:58:ASP:N	10:AJ:58:ASP:OD1	2.42	0.52
10:AJ:81:THR:O	10:AJ:82:ILE:C	2.52	0.52
12:AL:90:VAL:O	12:AL:92:ASP:N	2.42	0.52
14:AN:23:ARG:O	14:AN:24:CYS:C	2.50	0.52
15:AO:82:ILE:CG2	15:AO:83:GLU:N	2.72	0.52
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	2.09	0.52
20:AT:14:LYS:O	20:AT:16:HIS:N	2.42	0.52
20:AT:93:GLU:CD	20:AT:94:ALA:N	2.68	0.52
22:AV:15:G:H3'	22:AV:16:C:H5''	1.91	0.52
22:AV:59:A:O2'	22:AV:60:U:H5'	2.08	0.52
24:AY:260:LEU:CD2	35:BA:2655:G:H5''	2.39	0.52
24:AY:310:LYS:HB2	24:AY:311:HIS:CD2	2.45	0.52
24:AY:380:THR:CG2	24:AY:383:GLU:HB2	2.39	0.52
25:B0:27:GLU:HG3	25:B0:69:PHE:CD1	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:25:LYS:HZ3	35:BA:2285:C:H41	1.56	0.52
32:B7:11:LYS:HE2	35:BA:686:G:H5'	1.91	0.52
33:B8:36:LYS:O	33:B8:37:SER:O	2.27	0.52
35:BA:151:C:H2'	35:BA:152:G:H8	1.72	0.52
35:BA:482:A:H4'	56:BY:47:LYS:CG	2.40	0.52
35:BA:621:A:C2'	35:BA:622:G:H5'	2.32	0.52
35:BA:654(M):C:C2'	35:BA:654(N):G:C8	2.89	0.52
35:BA:729:G:H1'	35:BA:763:G:O3'	2.09	0.52
35:BA:880:G:H2'	35:BA:881:G:C8	2.44	0.52
35:BA:1223:G:N2	35:BA:1226:A:OP2	2.42	0.52
35:BA:1683:C:H2'	35:BA:1684:C:H6	1.72	0.52
35:BA:1796:U:O2'	35:BA:1797:C:O4'	2.18	0.52
35:BA:1827:C:OP1	35:BA:1971:A:O2'	2.20	0.52
35:BA:2133:G:H1'	35:BA:2158:A:H61	1.73	0.52
35:BA:2153:G:C2	35:BA:2154:G:H1'	2.43	0.52
35:BA:2508:G:HO2'	35:BA:2509:G:H5'	1.73	0.52
35:BA:2590:A:O3'	38:BD:239:ARG:HG3	2.09	0.52
35:BA:2822:G:O6	49:BR:4:LEU:HD23	2.08	0.52
36:BB:115:G:N3	36:BB:116:G:C8	2.77	0.52
37:BC:29:VAL:HG12	37:BC:32:LEU:HD12	1.92	0.52
37:BC:40:THR:HG23	37:BC:176:GLY:C	2.35	0.52
37:BC:68:LEU:CD2	37:BC:174:PRO:HB2	2.39	0.52
38:BD:125:ILE:CD1	38:BD:137:PRO:HD3	2.34	0.52
39:BE:27:LEU:HD13	39:BE:180:ASN:O	2.09	0.52
39:BE:62:PRO:O	39:BE:63:LEU:C	2.52	0.52
41:BG:25:TYR:C	41:BG:26:GLN:OE1	2.52	0.52
41:BG:128:ARG:O	41:BG:129:GLY:O	2.26	0.52
46:BO:10:VAL:HG22	46:BO:17:ARG:HA	1.91	0.52
47:BP:23:PRO:HB2	47:BP:33:ARG:HG3	1.91	0.52
48:BQ:20:ALA:H	57:BZ:79:ARG:HH21	1.58	0.52
49:BR:28:LEU:C	49:BR:30:THR:H	2.16	0.52
49:BR:29:LEU:CD2	49:BR:52:ILE:HD11	2.39	0.52
51:BT:72:VAL:C	51:BT:73:GLU:HG3	2.33	0.52
52:BU:29:SER:O	52:BU:30:LYS:HD3	2.09	0.52
53:BV:21:ARG:HA	53:BV:92:THR:O	2.09	0.52
53:BV:78:LYS:C	53:BV:79:VAL:CG2	2.83	0.52
57:BZ:48:PHE:HZ	57:BZ:74:VAL:HG21	1.74	0.52
1:AA:381:C:H2'	1:AA:382:A:H8	1.71	0.52
1:AA:992:U:O2'	1:AA:993:G:P	2.67	0.52
1:AA:1078:U:C5	1:AA:1079:G:C5	2.97	0.52
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1117:G:N2	1:AA:1184:G:C4	2.77	0.52
1:AA:1127:G:H1	1:AA:1145:C:H42	1.58	0.52
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.37	0.52
1:AA:1516:G:N1	1:AA:1519:A:OP2	2.41	0.52
2:AB:103:THR:OG1	2:AB:104:ASN:N	2.43	0.52
6:AF:13:ASN:O	6:AF:14:LEU:HD22	2.10	0.52
8:AH:72:PRO:O	8:AH:73:ASP:C	2.52	0.52
17:AQ:56:VAL:O	17:AQ:57:VAL:HG12	2.08	0.52
17:AQ:59:ILE:HG22	17:AQ:60:ILE:H	1.73	0.52
20:AT:73:HIS:CB	20:AT:74:LYS:HD3	2.39	0.52
22:AV:68:C:H2'	22:AV:68:C:O2	2.08	0.52
24:AY:196:GLY:O	24:AY:197:LYS:CG	2.52	0.52
27:B2:29:LYS:O	27:B2:32:LEU:HB3	2.10	0.52
29:B4:7:PRO:HD3	41:BG:67:LYS:HE3	1.92	0.52
31:B6:6:ARG:NH1	31:B6:6:ARG:HB3	2.24	0.52
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.09	0.52
33:B8:49:VAL:HB	33:B8:53:PRO:HD3	1.92	0.52
35:BA:289:A:H2'	35:BA:290:G:C8	2.44	0.52
35:BA:474:G:C6	35:BA:510:C:N4	2.77	0.52
35:BA:580:C:H2'	35:BA:581:C:C6	2.44	0.52
35:BA:653:A:N3	35:BA:653:A:H2'	2.23	0.52
35:BA:718:A:H2'	35:BA:719:C:H5'	1.90	0.52
35:BA:963:U:H2'	35:BA:964:C:H6	1.73	0.52
35:BA:1151:G:N2	35:BA:1152:C:O2	2.42	0.52
35:BA:1184:G:O2'	35:BA:1185:C:H5'	2.09	0.52
35:BA:1202:C:C2'	35:BA:1203:G:H5'	2.39	0.52
35:BA:1248:G:OP1	35:BA:1248:G:H8	1.92	0.52
35:BA:1351:C:H2'	35:BA:1352:U:C6	2.43	0.52
35:BA:1485:G:O2'	35:BA:1486:A:H5'	2.09	0.52
35:BA:2222:G:O4'	38:BD:149:PRO:CG	2.56	0.52
35:BA:2244:U:H1'	35:BA:2434:A:C4	2.45	0.52
35:BA:2291:U:OP1	35:BA:2381:C:H5'	2.09	0.52
35:BA:2338:G:O5'	35:BA:2338:G:C8	2.62	0.52
35:BA:2459:A:C8	35:BA:2460:U:C5	2.97	0.52
35:BA:2648:C:H2'	35:BA:2649:U:H6	1.71	0.52
35:BA:2822:G:O2'	35:BA:2823:A:O5'	2.26	0.52
37:BC:100:ILE:CG2	37:BC:126:LYS:HE3	2.39	0.52
38:BD:85:ASP:OD1	38:BD:88:ARG:CD	2.34	0.52
38:BD:147:LEU:CD1	38:BD:155:LEU:HD13	2.40	0.52
38:BD:169:GLU:O	38:BD:169:GLU:HG2	2.07	0.52
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:82:ARG:O	39:BE:84:PHE:N	2.42	0.52
40:BF:109:GLY:HA2	40:BF:112:MET:HB3	1.90	0.52
41:BG:16:ARG:NH1	41:BG:28:VAL:CG1	2.73	0.52
41:BG:133:LEU:CD1	41:BG:157:ILE:HB	2.39	0.52
45:BN:68:GLU:HA	45:BN:86:PRO:HB2	1.90	0.52
45:BN:75:TYR:HA	45:BN:82:LEU:HA	1.90	0.52
46:BO:100:GLY:O	46:BO:119:PRO:HD2	2.09	0.52
48:BQ:125:LEU:H	48:BQ:125:LEU:CD2	2.22	0.52
51:BT:50:ILE:HA	51:BT:99:LEU:HD12	1.92	0.52
52:BU:27:LEU:O	52:BU:28:ARG:C	2.51	0.52
55:BX:10:ALA:HB1	55:BX:11:PRO:HD2	1.91	0.52
1:AA:8:A:N6	4:AD:209:ARG:OXT	2.43	0.52
1:AA:22:G:H5'	1:AA:885:G:O4'	2.09	0.52
1:AA:436:C:O2'	4:AD:157:LEU:HD11	2.09	0.52
1:AA:575:G:C4'	1:AA:576:G:O5'	2.55	0.52
1:AA:918:A:C5	1:AA:919:A:C5	2.98	0.52
1:AA:1091:U:O2	1:AA:1095:U:C2	2.62	0.52
1:AA:1169:A:H8	1:AA:1169:A:O5'	1.92	0.52
1:AA:1191:A:OP1	3:AC:4:LYS:NZ	2.41	0.52
1:AA:1192:C:H2'	1:AA:1193:G:O4'	2.09	0.52
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.73	0.52
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.41	0.52
2:AB:194:PRO:O	2:AB:196:LEU:N	2.43	0.52
2:AB:200:ILE:HD12	2:AB:200:ILE:N	2.25	0.52
9:AI:55:ALA:C	9:AI:57:GLY:N	2.65	0.52
12:AL:75:HIS:CD2	12:AL:77:LEU:H	2.27	0.52
13:AM:73:GLU:O	13:AM:73:GLU:OE1	2.27	0.52
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.34	0.52
18:AR:44:LEU:O	18:AR:45:SER:C	2.52	0.52
19:AS:43:GLU:O	19:AS:45:VAL:N	2.42	0.52
20:AT:74:LYS:CG	20:AT:75:ASN:H	2.22	0.52
22:AV:49:G:N2	22:AV:50:U:C1'	2.72	0.52
24:AY:169:ILE:O	24:AY:185:LEU:N	2.43	0.52
24:AY:171:TRP:O	24:AY:182:VAL:HG13	2.08	0.52
24:AY:413:LEU:O	24:AY:417:VAL:CG2	2.57	0.52
24:AY:483:GLU:HA	24:AY:486:LYS:HE3	1.91	0.52
26:B1:46:LEU:HD13	26:B1:62:VAL:O	2.09	0.52
27:B2:16:LEU:O	27:B2:21:LEU:HG	2.08	0.52
29:B4:9:LEU:HD13	29:B4:26:SER:O	2.09	0.52
35:BA:467:G:H2'	35:BA:468:G:H8	1.74	0.52
35:BA:886:C:C2	35:BA:887:A:C8	2.97	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1053:C:O2'	35:BA:1054:A:H5'	2.09	0.52
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.44	0.52
35:BA:1417:C:C2'	35:BA:1418:G:H5'	2.39	0.52
35:BA:1441:G:H4'	35:BA:1628:G:OP1	2.09	0.52
35:BA:1892:C:C3'	35:BA:1893:C:C5'	2.87	0.52
35:BA:2305:A:C2'	35:BA:2306:C:O5'	2.58	0.52
35:BA:2366:A:N7	35:BA:2367:G:C5	2.77	0.52
35:BA:2734:A:H62	35:BA:2770:G:N2	2.06	0.52
35:BA:2833:G:C3'	35:BA:2834:G:C5'	2.72	0.52
36:BB:93:G:O2'	36:BB:94:C:H5'	2.10	0.52
37:BC:175:VAL:HG13	37:BC:188:ASN:HB2	1.90	0.52
38:BD:169:GLU:OE1	38:BD:184:LYS:CD	2.53	0.52
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.44	0.52
39:BE:120:TRP:O	39:BE:121:ASN:CB	2.58	0.52
39:BE:198:VAL:CG1	39:BE:199:ARG:H	2.21	0.52
44:BK:30:UNK:O	44:BK:31:UNK:CB	2.57	0.52
45:BN:68:GLU:H	45:BN:87:LEU:HB3	1.75	0.52
49:BR:43:GLU:HA	49:BR:43:GLU:OE1	2.09	0.52
54:BW:107:LEU:H	54:BW:107:LEU:HD12	1.73	0.52
56:BY:86:ARG:HB3	56:BY:88:LYS:CE	2.36	0.52
1:AA:502:G:H8	1:AA:502:G:O5'	1.93	0.52
1:AA:754:C:C4'	15:AO:72:ARG:NH1	2.66	0.52
1:AA:787:A:H2'	1:AA:788:U:H5'	1.91	0.52
1:AA:1243:C:H2'	1:AA:1244:C:C6	2.45	0.52
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.91	0.52
1:AA:1406:U:O2	1:AA:1518:A:C1'	2.55	0.52
1:AA:1506:U:O4	1:AA:1521:G:H5''	2.10	0.52
2:AB:9:GLU:C	2:AB:12:GLU:HB2	2.34	0.52
2:AB:219:VAL:O	2:AB:222:ILE:HG12	2.10	0.52
3:AC:71:ALA:O	3:AC:73:PRO:CD	2.57	0.52
4:AD:15:GLU:OE1	4:AD:59:ARG:NE	2.43	0.52
6:AF:45:LEU:CD1	6:AF:59:TYR:HD1	2.23	0.52
7:AG:104:LEU:O	7:AG:107:ALA:CB	2.58	0.52
8:AH:1:MET:HE2	8:AH:1:MET:H3	1.73	0.52
8:AH:40:ALA:HA	8:AH:45:ILE:HG13	1.90	0.52
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.35	0.52
9:AI:52:ALA:CB	9:AI:95:LYS:NZ	2.73	0.52
10:AJ:12:ASP:C	10:AJ:14:LYS:N	2.66	0.52
10:AJ:52:GLY:O	14:AN:41:ARG:NH2	2.33	0.52
12:AL:45:PRO:CG	12:AL:51:ALA:HB3	2.29	0.52
12:AL:55:VAL:HG22	12:AL:56:ALA:N	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:5:LYS:HG2	15:AO:8:LYS:HD2	1.91	0.52
15:AO:12:ILE:HD11	15:AO:31:LEU:HD21	1.91	0.52
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.52	0.52
18:AR:50:ILE:HD11	18:AR:70:ILE:HG21	1.90	0.52
19:AS:20:LEU:C	19:AS:23:ASN:HB3	2.35	0.52
19:AS:75:ALA:O	19:AS:76:PRO:O	2.28	0.52
20:AT:73:HIS:ND1	20:AT:74:LYS:HD3	2.24	0.52
24:AY:29:ILE:HG12	24:AY:259:ALA:HB3	1.90	0.52
24:AY:78:PRO:HB2	24:AY:83:LEU:CD2	2.39	0.52
24:AY:222:ASP:O	24:AY:226:GLN:N	2.42	0.52
25:B0:56:ASP:O	25:B0:57:PHE:HB2	2.08	0.52
26:B1:45:ASN:ND2	35:BA:2230:G:H1'	2.24	0.52
27:B2:2:LYS:N	35:BA:98:G:P	2.83	0.52
27:B2:41:ILE:CG1	27:B2:42:GLY:N	2.72	0.52
31:B6:15:GLU:CD	31:B6:18:ARG:NE	2.67	0.52
32:B7:12:ARG:HA	35:BA:686:G:O6	2.10	0.52
34:B9:10:ILE:HD13	34:B9:32:HIS:HB3	1.91	0.52
35:BA:237:C:O2'	35:BA:238:C:H5'	2.09	0.52
35:BA:321:G:OP1	40:BF:135:LYS:HD2	2.10	0.52
35:BA:433:C:C2	35:BA:434:U:C5	2.97	0.52
35:BA:886:C:HO2'	35:BA:887:A:P	2.32	0.52
35:BA:906:G:C6	35:BA:907:U:C5	2.97	0.52
35:BA:946:G:C2'	35:BA:947:G:H5'	2.40	0.52
35:BA:1543:C:O5'	35:BA:1543:C:H6	1.93	0.52
35:BA:1570:A:O4'	38:BD:38:LYS:HD3	2.09	0.52
35:BA:1799:G:O6	38:BD:179:SER:CB	2.57	0.52
35:BA:1951:U:O2	35:BA:1954:G:C8	2.62	0.52
35:BA:2128:C:O2'	35:BA:2129:C:H5'	2.10	0.52
35:BA:2275:C:H5'	35:BA:2275:C:C6	2.45	0.52
35:BA:2386:C:H2'	35:BA:2387:U:C6	2.45	0.52
35:BA:2684:U:O2'	46:BO:68:GLU:HG3	2.09	0.52
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.91	0.52
36:BB:111:G:H2'	36:BB:112:U:H5'	1.91	0.52
37:BC:47:LEU:HD23	37:BC:208:PHE:CE1	2.42	0.52
37:BC:201:PRO:HD2	37:BC:208:PHE:CE1	2.44	0.52
38:BD:80:ALA:HB3	38:BD:94:LEU:CD1	2.40	0.52
38:BD:108:PRO:HG3	38:BD:143:HIS:NE2	2.25	0.52
38:BD:120:GLY:O	38:BD:123:ALA:HB2	2.08	0.52
39:BE:117:MET:H	39:BE:122:PHE:HB2	1.73	0.52
40:BF:97:TYR:O	40:BF:98:SER:O	2.26	0.52
40:BF:124:LEU:O	40:BF:193:VAL:HA	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:175:LEU:O	41:BG:176:LEU:HB2	2.09	0.52
46:BO:50:GLY:C	46:BO:52:VAL:N	2.67	0.52
46:BO:113:LYS:NZ	46:BO:113:LYS:HB3	2.24	0.52
48:BQ:21:THR:C	48:BQ:23:GLY:H	2.17	0.52
50:BS:28:VAL:CG1	50:BS:29:PHE:H	2.08	0.52
51:BT:65:LYS:CE	51:BT:66:VAL:H	2.22	0.52
52:BU:65:ILE:HG23	52:BU:106:PHE:HZ	1.75	0.52
52:BU:92:ARG:CB	53:BV:11:GLN:NE2	2.72	0.52
53:BV:72:VAL:O	53:BV:85:LYS:HB2	2.10	0.52
56:BY:95:LYS:HA	56:BY:101:LYS:CA	2.40	0.52
1:AA:52:G:N2	1:AA:360:A:H1'	2.24	0.52
1:AA:246:A:O3'	1:AA:247:G:C4'	2.58	0.52
1:AA:652:U:O4	1:AA:752:G:O2'	2.23	0.52
1:AA:691:G:H2'	1:AA:692:U:C6	2.44	0.52
1:AA:753:A:O4'	1:AA:754:C:N3	2.42	0.52
1:AA:841:U:O2'	1:AA:848:C:H5'	2.10	0.52
1:AA:907:A:C5	1:AA:908:A:N7	2.78	0.52
1:AA:945:G:C2	1:AA:1337:G:N2	2.77	0.52
1:AA:1055:A:C5	1:AA:1206:G:C2	2.98	0.52
1:AA:1179:A:C2'	1:AA:1180:A:O5'	2.58	0.52
2:AB:79:ASP:OD1	2:AB:79:ASP:N	2.42	0.52
3:AC:113:ALA:N	3:AC:202:ILE:HD12	2.25	0.52
4:AD:100:ARG:HB3	4:AD:103:ASN:CB	2.40	0.52
4:AD:159:ARG:HH11	4:AD:159:ARG:CG	2.22	0.52
5:AE:94:ALA:HB1	5:AE:98:THR:CB	2.39	0.52
6:AF:22:GLU:O	6:AF:26:ILE:HB	2.09	0.52
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.92	0.52
12:AL:43:VAL:O	12:AL:53:ARG:N	2.42	0.52
17:AQ:13:ASP:C	17:AQ:15:MET:N	2.63	0.52
20:AT:53:LEU:HD11	20:AT:92:LEU:CD1	2.39	0.52
20:AT:61:SER:OG	20:AT:62:LEU:N	2.38	0.52
24:AY:68:ILE:HD13	24:AY:92:HIS:NE2	2.25	0.52
24:AY:120:GLU:O	24:AY:121:ASP:C	2.51	0.52
24:AY:121:ASP:O	24:AY:125:LYS:HB2	2.10	0.52
24:AY:135:THR:O	24:AY:137:ILE:CG1	2.57	0.52
24:AY:194:GLN:HB2	24:AY:202:GLN:CB	2.40	0.52
24:AY:303:ILE:CD1	24:AY:375:ILE:CD1	2.87	0.52
26:B1:58:ILE:HG23	26:B1:58:ILE:O	2.08	0.52
27:B2:37:PHE:C	27:B2:39:ALA:N	2.61	0.52
33:B8:51:ALA:H	33:B8:53:PRO:HD2	1.73	0.52
35:BA:271(M):G:C2'	35:BA:271(N):U:H5''	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:481:G:OP2	56:BY:47:LYS:HD3	2.09	0.52
35:BA:634:C:H2'	35:BA:635:C:C6	2.44	0.52
35:BA:674:G:OP1	40:BF:76:GLY:HA3	2.10	0.52
35:BA:819:A:C8	35:BA:1188:U:O4	2.62	0.52
35:BA:870:A:C2	35:BA:871:U:H1'	2.44	0.52
35:BA:872:A:H2'	35:BA:873:G:C8	2.43	0.52
35:BA:1614:A:H61	54:BW:87:PRO:CA	2.15	0.52
35:BA:1663:C:N3	35:BA:1992:G:N7	2.58	0.52
35:BA:1881:C:H2'	35:BA:1881:C:O2	2.10	0.52
35:BA:2147:G:O2'	35:BA:2148:G:H5'	2.09	0.52
35:BA:2154:G:C6	35:BA:2155:G:N7	2.78	0.52
35:BA:2461:C:H1'	35:BA:2492:U:C4	2.44	0.52
35:BA:2615:U:H2'	35:BA:2616:C:H6	1.75	0.52
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.40	0.52
36:BB:69:G:N2	36:BB:70:C:H1'	2.25	0.52
37:BC:175:VAL:CG2	37:BC:189:ILE:HA	2.39	0.52
38:BD:6:PHE:CE1	38:BD:13:ARG:NH2	2.70	0.52
38:BD:17:THR:CG2	38:BD:18:VAL:N	2.44	0.52
38:BD:35:LYS:HG2	38:BD:63:ARG:HG3	1.88	0.52
38:BD:213:ARG:HH12	38:BD:219:PRO:CG	2.22	0.52
39:BE:35:GLN:NE2	39:BE:36:ARG:O	2.29	0.52
46:BO:4:PRO:O	46:BO:5:GLN:CB	2.56	0.52
48:BQ:37:LEU:O	48:BQ:99:PRO:HB3	2.09	0.52
49:BR:73:VAL:O	49:BR:76:VAL:HG12	2.10	0.52
49:BR:84:ALA:N	49:BR:85:PRO:CD	2.73	0.52
50:BS:89:ARG:CG	50:BS:92:TYR:HB3	2.38	0.52
51:BT:29:ARG:CD	51:BT:30:VAL:H	2.22	0.52
51:BT:50:ILE:HG23	51:BT:99:LEU:HD12	1.92	0.52
52:BU:79:PHE:HE1	52:BU:83:LEU:HD21	1.75	0.52
52:BU:88:ILE:O	52:BU:88:ILE:CG1	2.57	0.52
53:BV:82:ARG:HD2	53:BV:82:ARG:N	2.24	0.52
54:BW:25:ARG:HA	54:BW:71:VAL:CB	2.39	0.52
54:BW:76:VAL:O	54:BW:76:VAL:HG13	2.10	0.52
55:BX:12:VAL:HG22	55:BX:13:LEU:H	1.72	0.52
57:BZ:24:LEU:HD13	57:BZ:44:PHE:HD2	1.74	0.52
57:BZ:29:TYR:O	57:BZ:90:VAL:HG23	2.09	0.52
57:BZ:102:LEU:HD21	57:BZ:124:ILE:CD1	2.31	0.52
57:BZ:152:ALA:O	57:BZ:155:LEU:CD2	2.56	0.52
1:AA:408:A:H2'	1:AA:409:G:C8	2.44	0.52
1:AA:413:G:N2	1:AA:428:G:H1'	2.24	0.52
1:AA:446:G:O2'	1:AA:447:G:H5'	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:597:G:N2	8:AH:94:TYR:HE2	2.08	0.52
1:AA:660:G:C2	1:AA:746:A:C2	2.97	0.52
1:AA:669:U:H2'	1:AA:670:G:H8	1.74	0.52
1:AA:672:U:HO2'	1:AA:673:G:H8	1.58	0.52
1:AA:687:A:HO2'	1:AA:688:G:P	2.32	0.52
1:AA:895:G:O2'	1:AA:896:C:H5'	2.09	0.52
1:AA:957:U:H6	1:AA:957:U:O5'	1.92	0.52
1:AA:1119:C:O5'	1:AA:1119:C:H6	1.93	0.52
1:AA:1240:U:OP1	7:AG:116:ALA:HB2	2.10	0.52
1:AA:1375:A:C4	1:AA:1376:U:C6	2.98	0.52
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.09	0.52
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.45	0.52
4:AD:58:LEU:HD13	4:AD:62:GLN:HG3	1.91	0.52
4:AD:173:TRP:HB3	4:AD:187:ARG:NH2	2.25	0.52
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.08	0.52
7:AG:27:ILE:HG22	7:AG:27:ILE:O	2.09	0.52
8:AH:1:MET:HE2	8:AH:1:MET:H2	1.72	0.52
15:AO:62:GLN:O	15:AO:63:ARG:C	2.53	0.52
16:AP:5:ARG:HE	16:AP:22:THR:HG23	1.73	0.52
16:AP:6:LEU:HD23	16:AP:17:TYR:CG	2.43	0.52
18:AR:22:VAL:CG1	18:AR:43:PHE:CE1	2.93	0.52
18:AR:70:ILE:O	18:AR:73:ALA:HB3	2.10	0.52
20:AT:104:LEU:C	20:AT:104:LEU:CD2	2.83	0.52
22:AV:26:G:H2'	22:AV:27:U:OP1	2.10	0.52
24:AY:74:VAL:HG13	24:AY:74:VAL:O	2.10	0.52
24:AY:177:LYS:NZ	42:BH:110:SER:HB3	2.24	0.52
24:AY:312:ARG:HH12	24:AY:370:HIS:HB3	1.73	0.52
24:AY:398:PHE:C	24:AY:399:ARG:HG2	2.30	0.52
26:B1:53:VAL:O	26:B1:54:ALA:CB	2.57	0.52
27:B2:35:LEU:HD11	27:B2:50:ILE:CD1	2.39	0.52
29:B4:22:ILE:HG22	29:B4:24:THR:HG23	1.91	0.52
30:B5:6:VAL:O	35:BA:2615:U:C4	2.62	0.52
31:B6:26:ASN:O	31:B6:27:LYS:HB2	2.09	0.52
31:B6:28:ARG:CA	31:B6:32:ASN:HD22	2.22	0.52
32:B7:35:ARG:HH12	32:B7:42:LEU:HD11	1.74	0.52
34:B9:16:VAL:O	34:B9:17:ILE:C	2.51	0.52
35:BA:38:A:H5'	40:BF:50:SER:OG	2.09	0.52
35:BA:68:G:C6	35:BA:69:C:C4	2.98	0.52
35:BA:81:G:H3'	35:BA:82:G:C8	2.45	0.52
35:BA:177:G:H3'	35:BA:178:G:C8	2.45	0.52
35:BA:565:C:P	53:BV:78:LYS:H	2.32	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:636:G:H2'	47:BP:115:LEU:CD1	2.34	0.52
35:BA:771:G:C2	35:BA:772:C:C5	2.97	0.52
35:BA:955:C:C5	35:BA:956:G:N7	2.77	0.52
35:BA:1198:U:H2'	35:BA:1199:U:C6	2.45	0.52
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.45	0.52
35:BA:1785:A:H4'	35:BA:1982:C:H1'	1.92	0.52
35:BA:2011:U:C2'	35:BA:2012:G:H5'	2.40	0.52
35:BA:2180:U:C6	35:BA:2181:G:N7	2.77	0.52
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.75	0.52
35:BA:2681:C:H5	35:BA:2727:G:N2	2.08	0.52
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.10	0.52
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.92	0.52
39:BE:46:ALA:O	39:BE:84:PHE:O	2.28	0.52
39:BE:93:VAL:HG11	39:BE:182:LEU:HD13	1.90	0.52
40:BF:159:GLY:CA	40:BF:164:ARG:HH21	2.20	0.52
41:BG:7:LEU:O	41:BG:8:LYS:C	2.53	0.52
41:BG:15:VAL:O	41:BG:19:LEU:HG	2.10	0.52
41:BG:22:ARG:HD2	41:BG:23:PHE:CE1	2.44	0.52
41:BG:139:LEU:C	41:BG:141:PHE:H	2.15	0.52
44:BK:7:UNK:O	44:BK:8:UNK:CB	2.55	0.52
46:BO:50:GLY:C	46:BO:52:VAL:H	2.16	0.52
47:BP:147:LEU:O	47:BP:148:LEU:CB	2.57	0.52
48:BQ:57:HIS:ND1	48:BQ:57:HIS:C	2.67	0.52
48:BQ:109:VAL:CG1	48:BQ:113:GLN:HB2	2.39	0.52
51:BT:72:VAL:O	51:BT:73:GLU:HG3	2.09	0.52
52:BU:62:ILE:HG23	52:BU:76:TYR:CE2	2.45	0.52
53:BV:32:THR:HG22	53:BV:33:VAL:H	1.75	0.52
53:BV:39:LEU:CB	53:BV:47:VAL:HG21	2.31	0.52
54:BW:72:LYS:CD	54:BW:108:GLY:HA3	2.40	0.52
57:BZ:154:ASP:N	57:BZ:154:ASP:OD1	2.42	0.52
1:AA:135:C:O2	16:AP:1:MET:N	2.39	0.52
1:AA:244:U:H4'	1:AA:245:C:C5'	2.40	0.52
1:AA:492:G:O2'	1:AA:493:G:H5'	2.10	0.52
1:AA:527:G:N2	1:AA:528:C:C2	2.78	0.52
1:AA:664:G:N2	1:AA:742:G:C2	2.77	0.52
1:AA:673:G:N2	1:AA:674:G:C2	2.78	0.52
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.92	0.52
1:AA:834:C:OP1	18:AR:60:ALA:HB2	2.09	0.52
1:AA:895:G:N1	1:AA:904:C:O2	2.32	0.52
1:AA:1057:G:O3'	3:AC:197:GLY:HA3	2.09	0.52
1:AA:1189:C:O3'	3:AC:5:ILE:CD1	2.57	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:8:LYS:HZ1	2:AB:217:ARG:NH1	2.08	0.52
2:AB:52:GLU:O	2:AB:56:ARG:HG3	2.09	0.52
2:AB:109:SER:O	2:AB:113:HIS:CE1	2.63	0.52
3:AC:34:LEU:CD2	3:AC:38:ARG:HD2	2.39	0.52
3:AC:142:MET:C	3:AC:144:SER:N	2.59	0.52
7:AG:136:LYS:O	7:AG:138:LYS:N	2.43	0.52
9:AI:52:ALA:C	9:AI:95:LYS:HZ1	2.17	0.52
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.91	0.52
13:AM:8:GLU:OE1	13:AM:67:GLU:HG2	2.10	0.52
13:AM:57:ARG:O	13:AM:60:VAL:HB	2.10	0.52
17:AQ:92:ARG:HA	17:AQ:95:TYR:HD2	1.71	0.52
19:AS:53:ASN:OD1	19:AS:55:LYS:HB3	2.09	0.52
24:AY:136:PRO:C	24:AY:137:ILE:CG1	2.65	0.52
24:AY:168:PRO:CB	24:AY:171:TRP:CE2	2.92	0.52
24:AY:284:THR:HG22	24:AY:287:ARG:H	1.75	0.52
24:AY:307:MET:SD	24:AY:307:MET:C	2.88	0.52
26:B1:94:LEU:HD13	26:B1:94:LEU:H	1.73	0.52
28:B3:19:GLN:HG2	28:B3:49:LYS:HE3	1.90	0.52
30:B5:50:GLY:HA3	30:B5:56:LYS:HD3	1.91	0.52
31:B6:26:ASN:ND2	31:B6:32:ASN:HD21	2.04	0.52
33:B8:7:HIS:ND1	33:B8:59:LYS:NZ	2.57	0.52
35:BA:8:A:H2'	35:BA:9:U:H5	1.73	0.52
35:BA:254:G:HO2'	35:BA:384:U:H5'	1.75	0.52
35:BA:851:U:H3	35:BA:926:A:H61	1.57	0.52
35:BA:1062:G:H1'	44:BK:73:UNK:CB	2.40	0.52
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.09	0.52
35:BA:2283:C:C5	35:BA:2389:G:C4	2.98	0.52
35:BA:2551:C:H2'	35:BA:2552:U:O4'	2.10	0.52
36:BB:102:A:H2'	36:BB:102:A:N3	2.25	0.52
37:BC:177:LYS:O	37:BC:185:LEU:HD21	2.09	0.52
38:BD:109:ASP:N	38:BD:195:ALA:O	2.42	0.52
38:BD:212:SER:O	38:BD:217:ARG:HB2	2.09	0.52
40:BF:52:LYS:C	40:BF:88:VAL:HG12	2.35	0.52
40:BF:174:VAL:HG12	40:BF:176:LEU:CD1	2.40	0.52
41:BG:52:ILE:O	41:BG:53:LEU:HB2	2.10	0.52
45:BN:120:LEU:CD1	45:BN:120:LEU:C	2.83	0.52
46:BO:105:GLU:HA	46:BO:108:GLU:OE1	2.10	0.52
47:BP:98:GLU:C	47:BP:101:VAL:HG22	2.35	0.52
47:BP:105:LEU:HD12	47:BP:105:LEU:N	2.25	0.52
48:BQ:115:MET:O	48:BQ:116:GLU:C	2.52	0.52
51:BT:11:GLU:O	51:BT:13:ARG:N	2.37	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:22:PHE:HE2	51:BT:85:LYS:CE	2.22	0.52
52:BU:15:LYS:CA	52:BU:18:LEU:HD23	2.31	0.52
52:BU:26:GLY:C	52:BU:28:ARG:H	2.16	0.52
56:BY:88:LYS:O	56:BY:89:PHE:HB2	2.09	0.52
1:AA:64:G:C2	1:AA:67:C:N4	2.77	0.52
1:AA:66:G:N2	1:AA:172:A:H2	2.08	0.52
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.45	0.52
2:AB:77:ALA:CA	2:AB:80:ILE:HD13	2.39	0.52
2:AB:97:TRP:HH2	2:AB:176:GLU:CG	2.22	0.52
4:AD:116:GLN:HG2	4:AD:116:GLN:O	2.08	0.52
6:AF:28:ARG:O	6:AF:32:ASN:HB2	2.10	0.52
7:AG:26:PHE:CZ	7:AG:124:LEU:HD11	2.45	0.52
7:AG:145:ALA:O	7:AG:147:ALA:N	2.43	0.52
11:AK:90:GLY:O	11:AK:94:ALA:N	2.43	0.52
12:AL:113:ARG:HG3	12:AL:114:LYS:H	1.75	0.52
14:AN:39:LEU:HD12	14:AN:44:LEU:HD12	1.91	0.52
15:AO:79:ARG:O	15:AO:82:ILE:HG22	2.10	0.52
22:AV:34:C:O5'	22:AV:34:C:C6	2.63	0.52
24:AY:138:LEU:CD2	24:AY:253:PRO:HG2	2.40	0.52
24:AY:146:ARG:HA	24:AY:176:GLY:HA2	1.91	0.52
24:AY:146:ARG:NE	35:BA:2656:U:H1'	2.24	0.52
24:AY:320:VAL:HG11	24:AY:359:ALA:O	2.10	0.52
24:AY:513:LEU:O	24:AY:517:ARG:HB2	2.09	0.52
25:B0:31:VAL:HG22	25:B0:65:GLY:O	2.10	0.52
29:B4:37:SER:C	29:B4:39:CYS:H	2.17	0.52
30:B5:8:LYS:HB2	35:BA:2054:A:C2	2.44	0.52
31:B6:20:ASN:OD1	31:B6:21:TYR:N	2.43	0.52
32:B7:23:ARG:O	32:B7:24:THR:HG22	2.09	0.52
35:BA:206:U:H2'	35:BA:207:A:H8	1.74	0.52
35:BA:748:G:O6	35:BA:751:A:H4'	2.09	0.52
35:BA:976:C:O2'	35:BA:977:G:H5'	2.09	0.52
35:BA:1057:A:O2'	35:BA:1058:G:H5'	2.10	0.52
35:BA:1060:U:H4'	35:BA:1061:U:C5	2.45	0.52
35:BA:1108:U:OP1	43:BJ:80:UNK:HA	2.09	0.52
35:BA:1286:A:OP1	49:BR:105:ARG:CZ	2.58	0.52
35:BA:1783:A:O2'	35:BA:2607:G:O2'	2.06	0.52
35:BA:2046:G:C2	35:BA:2047:U:C2	2.98	0.52
35:BA:2280:G:N1	35:BA:2281:C:C4	2.77	0.52
37:BC:25:ALA:CB	37:BC:224:ILE:HG22	2.40	0.52
38:BD:77:ALA:HA	38:BD:97:TYR:HA	1.91	0.52
39:BE:33:VAL:HG23	39:BE:47:VAL:HG13	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:128:SER:O	39:BE:129:HIS:HB2	2.10	0.52
40:BF:110:LEU:HD12	40:BF:206:ILE:HD11	1.92	0.52
42:BH:121:ILE:CG2	42:BH:122:THR:N	2.72	0.52
47:BP:24:GLY:HA3	47:BP:33:ARG:NH1	2.25	0.52
47:BP:106:LEU:O	47:BP:107:LYS:CG	2.58	0.52
48:BQ:58:PHE:HZ	48:BQ:64:ILE:HD11	1.75	0.52
51:BT:125:ARG:C	51:BT:128:GLU:HG3	2.34	0.52
52:BU:68:ALA:O	52:BU:71:GLN:HB3	2.10	0.52
53:BV:98:GLU:C	53:BV:99:ILE:HD13	2.35	0.52
55:BX:83:VAL:O	55:BX:84:ALA:C	2.53	0.52
56:BY:90:LEU:O	56:BY:90:LEU:HG	2.10	0.52
57:BZ:54:HIS:HA	57:BZ:98:MET:CE	2.38	0.52
1:AA:169:C:C2'	1:AA:170:U:H5'	2.39	0.52
1:AA:309:G:O2'	1:AA:310:G:H5'	2.09	0.52
1:AA:838:G:C6	1:AA:840:C:H1'	2.44	0.52
1:AA:979:C:H41	1:AA:1360:A:N6	2.08	0.52
1:AA:1393:U:C5'	1:AA:1502:A:OP1	2.58	0.52
1:AA:1409:C:C2	1:AA:1410:G:N7	2.78	0.52
2:AB:61:LEU:N	2:AB:64:ARG:NH2	2.57	0.52
3:AC:6:HIS:CE1	3:AC:184:TYR:CE2	2.98	0.52
5:AE:70:PRO:O	5:AE:72:GLN:HG3	2.10	0.52
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.24	0.52
7:AG:84:ASN:ND2	7:AG:84:ASN:C	2.68	0.52
8:AH:32:LYS:O	8:AH:33:GLU:C	2.53	0.52
10:AJ:62:HIS:HB2	14:AN:59:ALA:HB3	1.91	0.52
13:AM:42:ALA:O	13:AM:43:THR:C	2.52	0.52
13:AM:97:PRO:N	13:AM:110:ARG:HD3	2.24	0.52
15:AO:82:ILE:O	15:AO:83:GLU:C	2.53	0.52
24:AY:7:LEU:HA	24:AY:10:VAL:CG2	2.40	0.52
24:AY:29:ILE:O	24:AY:32:LYS:N	2.43	0.52
30:B5:17:ASP:HA	30:B5:20:ARG:HD2	1.92	0.52
32:B7:32:LYS:HE2	35:BA:180:G:P	2.50	0.52
34:B9:19:ARG:C	34:B9:21:GLY:H	2.18	0.52
35:BA:230:U:O2'	35:BA:231:C:H5'	2.10	0.52
35:BA:388:G:C4	35:BA:390:A:C6	2.98	0.52
35:BA:388:G:H2'	35:BA:390:A:N7	2.25	0.52
35:BA:480:A:H3'	35:BA:481:G:H5''	1.91	0.52
35:BA:586:A:OP1	40:BF:89:VAL:HG21	2.10	0.52
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.91	0.52
35:BA:861:A:C2'	35:BA:862:G:H5'	2.40	0.52
35:BA:994:C:OP2	52:BU:54:LYS:NZ	2.36	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1000:A:C6	35:BA:1155:A:C8	2.98	0.52
35:BA:1070:A:H62	35:BA:1096:A:H2'	1.73	0.52
35:BA:1169:G:H1	35:BA:1180:C:N4	2.08	0.52
35:BA:1173:G:H3'	35:BA:1174:A:C5'	2.40	0.52
35:BA:1308:A:C6	35:BA:1309:G:C2	2.98	0.52
35:BA:1543:C:C3'	35:BA:1544:A:C5'	2.81	0.52
35:BA:1598:C:H5'	55:BX:36:LYS:CG	2.39	0.52
35:BA:1799:G:N2	38:BD:155:LEU:HG	2.24	0.52
35:BA:2280:G:O2'	35:BA:2281:C:H5'	2.10	0.52
35:BA:2319:G:H1'	35:BA:2320:A:N7	2.25	0.52
35:BA:2370:G:H2'	35:BA:2371:G:C8	2.45	0.52
35:BA:2707:G:H2'	35:BA:2708:G:H8	1.72	0.52
35:BA:2747:G:C2	35:BA:2756:U:C5	2.96	0.52
37:BC:65:PRO:HD2	37:BC:188:ASN:HA	1.90	0.52
41:BG:125:PHE:CD2	41:BG:131:TYR:CD1	2.97	0.52
42:BH:16:SER:O	42:BH:26:VAL:HG23	2.10	0.52
45:BN:10:GLU:HG3	45:BN:11:PRO:HD2	1.92	0.52
48:BQ:68:ILE:HD13	48:BQ:103:MET:HB3	1.92	0.52
50:BS:97:ARG:O	50:BS:99:LYS:HG2	2.09	0.52
51:BT:53:ARG:HH11	51:BT:53:ARG:CB	2.23	0.52
51:BT:131:ALA:C	51:BT:133:GLU:N	2.67	0.52
53:BV:2:PHE:CE1	53:BV:13:ARG:HD2	2.44	0.52
56:BY:2:ARG:HH11	56:BY:2:ARG:HG2	1.73	0.52
1:AA:52:G:C6	1:AA:360:A:C2	2.98	0.51
1:AA:588:G:C8	1:AA:753:A:C2	2.99	0.51
1:AA:633:G:C5'	1:AA:634:C:OP2	2.58	0.51
1:AA:855:G:H2'	1:AA:856:C:H6	1.74	0.51
1:AA:1155:G:C2'	1:AA:1156:G:H5'	2.40	0.51
1:AA:1188:A:C2'	1:AA:1189:C:H5'	2.40	0.51
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.10	0.51
1:AA:1327:C:OP1	21:AU:20:LYS:HB3	2.10	0.51
2:AB:22:LYS:CE	2:AB:40:HIS:CE1	2.94	0.51
2:AB:70:PHE:N	2:AB:70:PHE:CD1	2.77	0.51
2:AB:170:GLU:O	2:AB:172:ILE:N	2.43	0.51
2:AB:178:ARG:NH1	8:AH:71:GLY:O	2.42	0.51
3:AC:6:HIS:CE1	3:AC:184:TYR:HE2	2.28	0.51
3:AC:11:ARG:HH21	3:AC:180:ALA:HB3	1.75	0.51
5:AE:34:VAL:O	5:AE:42:GLY:N	2.43	0.51
7:AG:24:THR:HA	7:AG:27:ILE:CG1	2.40	0.51
11:AK:126:ARG:HH11	11:AK:126:ARG:CB	2.02	0.51
12:AL:39:VAL:HG11	12:AL:41:ARG:NH2	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:88:ARG:HA	13:AM:98:VAL:HG13	1.93	0.51
16:AP:2:VAL:O	16:AP:2:VAL:HG13	2.09	0.51
17:AQ:90:ILE:O	17:AQ:93:GLN:HB3	2.10	0.51
22:AV:7:G:H8	22:AV:7:G:OP2	1.93	0.51
24:AY:225:GLN:O	24:AY:228:ARG:CB	2.58	0.51
24:AY:315:VAL:CG1	24:AY:316:ALA:H	2.22	0.51
24:AY:386:LYS:HD2	24:AY:387:PHE:N	2.26	0.51
26:B1:23:LYS:CE	26:B1:28:GLY:HA3	2.40	0.51
30:B5:51:TYR:HD2	30:B5:52:TYR:CE1	2.28	0.51
32:B7:5:TRP:CH2	35:BA:464:U:H4'	2.45	0.51
33:B8:12:LYS:HD3	47:BP:68:GLN:CG	2.38	0.51
33:B8:35:GLN:O	33:B8:36:LYS:HG3	2.10	0.51
35:BA:197:A:H5'	35:BA:197:A:C8	2.45	0.51
35:BA:271(L):U:H4'	35:BA:271(M):G:C8	2.45	0.51
35:BA:586:A:OP1	40:BF:89:VAL:CG2	2.58	0.51
35:BA:606:U:H4'	35:BA:658:C:O4'	2.10	0.51
35:BA:627:A:O2'	35:BA:628:G:C8	2.62	0.51
35:BA:636:G:C8	47:BP:113:LYS:NZ	2.74	0.51
35:BA:770:G:O2'	35:BA:1354:A:N1	2.36	0.51
35:BA:852:G:O6	35:BA:926:A:C6	2.63	0.51
35:BA:1139:G:N3	35:BA:1143:A:H2	2.08	0.51
35:BA:1963:U:H2'	35:BA:1963:U:O2	2.10	0.51
35:BA:2048:G:H1'	35:BA:2823:A:N6	2.25	0.51
35:BA:2331:G:N2	35:BA:2385:C:C4	2.78	0.51
35:BA:2461:C:H2'	35:BA:2462:U:H6	1.74	0.51
35:BA:2572:A:C2	39:BE:144:ARG:NH1	2.78	0.51
35:BA:2687:U:O2'	35:BA:2688:U:H5'	2.10	0.51
35:BA:2751:G:H2'	35:BA:2751:G:N3	2.25	0.51
35:BA:2875:C:O2'	51:BT:6:LEU:HG	2.10	0.51
35:BA:2877:G:C5	35:BA:2878:U:C4	2.98	0.51
37:BC:28:LEU:O	37:BC:32:LEU:HG	2.10	0.51
39:BE:167:VAL:CG1	39:BE:188:VAL:HA	2.33	0.51
45:BN:56:ASN:H	45:BN:125:GLY:CA	2.23	0.51
45:BN:98:VAL:O	45:BN:102:ALA:HB2	2.09	0.51
47:BP:80:TYR:HA	47:BP:111:ARG:HB3	1.92	0.51
48:BQ:50:ALA:O	48:BQ:51:ARG:C	2.53	0.51
49:BR:48:VAL:O	49:BR:51:LEU:HB2	2.10	0.51
50:BS:106:ARG:CD	50:BS:107:GLU:O	2.58	0.51
52:BU:6:THR:OG1	52:BU:10:ARG:NH2	2.43	0.51
52:BU:101:ARG:NH1	52:BU:101:ARG:HG3	2.25	0.51
55:BX:26:TYR:N	55:BX:26:TYR:CD1	2.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:28:MET:HE1	57:BZ:35:ARG:HB3	1.92	0.51
57:BZ:70:LEU:CD2	57:BZ:70:LEU:N	2.72	0.51
57:BZ:118:GLN:N	57:BZ:173:ALA:O	2.35	0.51
1:AA:575:G:N7	1:AA:881:G:N2	2.58	0.51
1:AA:668:G:H4'	15:AO:48:LYS:CB	2.38	0.51
1:AA:969:A:C2'	1:AA:970:C:H5'	2.40	0.51
1:AA:1204:A:C2'	1:AA:1205:U:O4'	2.59	0.51
1:AA:1483:A:C2	35:BA:1960:A:C1'	2.92	0.51
2:AB:68:ILE:HB	2:AB:70:PHE:CE1	2.45	0.51
2:AB:80:ILE:CG2	2:AB:212:GLN:HA	2.40	0.51
3:AC:106:VAL:O	3:AC:107:GLN:C	2.53	0.51
4:AD:152:SER:CB	4:AD:155:LEU:HD12	2.35	0.51
5:AE:55:VAL:HG12	5:AE:56:GLN:N	2.25	0.51
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.76	0.51
6:AF:82:ARG:CB	6:AF:85:VAL:HG23	2.39	0.51
9:AI:94:ALA:O	9:AI:95:LYS:HB3	2.10	0.51
13:AM:28:ALA:O	13:AM:29:ARG:C	2.53	0.51
15:AO:65:ARG:CG	15:AO:65:ARG:NH1	2.61	0.51
19:AS:10:PHE:CE1	19:AS:70:LYS:HD2	2.42	0.51
22:AV:15:G:H5''	22:AV:16:C:H5'	1.92	0.51
24:AY:25:GLY:HA3	24:AY:29:ILE:CG1	2.40	0.51
24:AY:173:ILE:HA	24:AY:227:LEU:CD1	2.40	0.51
24:AY:272:LEU:O	24:AY:276:ALA:N	2.33	0.51
35:BA:199:A:N1	35:BA:2433:A:C2'	2.73	0.51
35:BA:295:G:C6	35:BA:344:G:C2	2.98	0.51
35:BA:514:A:N3	35:BA:581:C:O2'	2.33	0.51
35:BA:687:C:H2'	35:BA:688:U:C5'	2.40	0.51
35:BA:803:U:C2'	35:BA:804:A:C5'	2.84	0.51
35:BA:868:U:C4	35:BA:869:G:N7	2.78	0.51
35:BA:925:C:H2'	35:BA:926:A:C5'	2.29	0.51
35:BA:947:G:H2'	35:BA:948:G:C8	2.42	0.51
35:BA:962:G:C4	35:BA:963:U:C6	2.97	0.51
35:BA:1010:A:H1'	35:BA:1153:C:C1'	2.37	0.51
35:BA:1215:G:H2'	35:BA:1216:G:H8	1.74	0.51
35:BA:1315:C:C2'	35:BA:1316:U:H5'	2.41	0.51
35:BA:1764:G:H2'	35:BA:1765:C:C6	2.45	0.51
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.09	0.51
35:BA:1947:C:O2'	35:BA:1948:G:H5''	2.07	0.51
35:BA:2054:A:OP1	35:BA:2055:C:O2'	2.23	0.51
35:BA:2110:G:H1	35:BA:2178:C:N4	2.06	0.51
35:BA:2245:U:O2	35:BA:2435:A:C8	2.63	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.45	0.51
36:BB:61:G:H2'	36:BB:62:C:C6	2.45	0.51
37:BC:110:PHE:O	37:BC:111:ASP:CG	2.52	0.51
37:BC:120:MET:HE1	37:BC:138:PRO:HB3	1.92	0.51
38:BD:108:PRO:CB	38:BD:143:HIS:NE2	2.73	0.51
38:BD:233:HIS:NE2	38:BD:246:PRO:HA	2.25	0.51
38:BD:274:ARG:HH11	38:BD:274:ARG:CG	2.24	0.51
39:BE:188:VAL:O	39:BE:189:PRO:O	2.28	0.51
39:BE:195:LEU:HD11	39:BE:197:ILE:HG23	1.91	0.51
40:BF:141:ALA:C	40:BF:143:ALA:N	2.65	0.51
41:BG:46:ALA:C	41:BG:47:LYS:CD	2.77	0.51
41:BG:51:ARG:NH1	41:BG:53:LEU:HD21	2.25	0.51
41:BG:125:PHE:CD2	41:BG:131:TYR:HB2	2.44	0.51
42:BH:155:SER:C	42:BH:157:TYR:H	2.18	0.51
43:BJ:64:UNK:C	43:BJ:66:UNK:N	2.72	0.51
48:BQ:57:HIS:C	48:BQ:57:HIS:HD1	2.17	0.51
50:BS:35:ILE:N	50:BS:53:SER:HB2	2.25	0.51
57:BZ:15:PRO:HA	57:BZ:18:LEU:HD23	1.92	0.51
57:BZ:72:ARG:NH2	57:BZ:97:GLU:O	2.43	0.51
57:BZ:141:VAL:C	57:BZ:143:GLY:H	2.19	0.51
1:AA:115:G:O2'	1:AA:116:A:C8	2.58	0.51
1:AA:144:G:H2'	1:AA:145:G:O4'	2.10	0.51
1:AA:146:G:N2	1:AA:177:C:C2	2.79	0.51
1:AA:407:G:H1	1:AA:435:C:H42	1.58	0.51
1:AA:508:C:H1'	1:AA:509:A:N7	2.25	0.51
1:AA:679:C:C4	1:AA:680:C:N4	2.78	0.51
1:AA:781:A:N7	1:AA:801:U:O4	2.43	0.51
1:AA:973:G:OP2	1:AA:974:A:H2'	2.10	0.51
1:AA:1010:G:H2'	1:AA:1011:G:C8	2.46	0.51
1:AA:1097:C:O5'	1:AA:1097:C:H6	1.94	0.51
1:AA:1192:C:C2'	5:AE:25:ARG:HH22	2.24	0.51
1:AA:1235:U:O3'	21:AU:3:LYS:HB2	2.10	0.51
1:AA:1241:G:C4	1:AA:1242:C:C5	2.98	0.51
1:AA:1320:C:H6	1:AA:1320:C:C5'	2.21	0.51
1:AA:1353:G:C2	1:AA:1354:C:C5	2.98	0.51
3:AC:11:ARG:O	3:AC:14:ILE:O	2.27	0.51
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.23	0.51
3:AC:86:VAL:HA	3:AC:89:GLU:HB3	1.92	0.51
3:AC:108:ASN:HB3	3:AC:111:LEU:CG	2.40	0.51
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.39	0.51
5:AE:152:ARG:NH2	8:AH:44:PHE:CE1	2.79	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:12:PRO:HB3	6:AF:58:GLY:CA	2.40	0.51
7:AG:17:VAL:C	7:AG:19:GLY:N	2.66	0.51
7:AG:34:GLY:C	7:AG:36:LYS:N	2.68	0.51
7:AG:46:ALA:HB1	7:AG:121:ALA:HB2	1.92	0.51
7:AG:141:VAL:O	7:AG:144:MET:HB2	2.10	0.51
9:AI:121:ARG:HH11	9:AI:121:ARG:CG	2.22	0.51
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.24	0.51
11:AK:32:ILE:CD1	11:AK:72:ALA:HB2	2.41	0.51
11:AK:98:LEU:O	11:AK:99:GLN:C	2.53	0.51
12:AL:26:ALA:O	12:AL:27:LEU:O	2.28	0.51
14:AN:27:CYS:SG	14:AN:43:CYS:SG	3.05	0.51
24:AY:7:LEU:HA	24:AY:10:VAL:HG21	1.91	0.51
25:B0:40:GLN:HE22	25:B0:43:THR:HA	1.75	0.51
27:B2:51:ARG:O	27:B2:54:LYS:N	2.42	0.51
30:B5:48:GLU:O	30:B5:49:CYS:HB3	2.10	0.51
34:B9:10:ILE:HG21	35:BA:2477:C:H5	1.76	0.51
34:B9:16:VAL:HG21	35:BA:1033:U:OP1	2.11	0.51
35:BA:327:G:C2	35:BA:328:U:C2	2.98	0.51
35:BA:392:C:H5''	35:BA:409:C:H5''	1.92	0.51
35:BA:695:G:N3	35:BA:696:G:C8	2.78	0.51
35:BA:744:G:P	39:BE:132:HIS:HB3	2.50	0.51
35:BA:817:C:H42	35:BA:1190:G:H1	1.59	0.51
35:BA:897:C:H5''	35:BA:897:C:C6	2.41	0.51
35:BA:942:G:H5''	47:BP:36:LYS:HA	1.91	0.51
35:BA:1015:G:C5	35:BA:1148:A:C2	2.98	0.51
35:BA:1261:C:C2	35:BA:1262:A:C8	2.99	0.51
35:BA:1695:G:H3'	35:BA:1695:G:N3	2.25	0.51
35:BA:1934:C:H5'	35:BA:1974:C:H4'	1.91	0.51
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.39	0.51
35:BA:2581:G:N1	35:BA:2610:C:C2	2.78	0.51
35:BA:2812:G:N2	35:BA:2889:C:N3	2.58	0.51
35:BA:2838:G:H4'	49:BR:45:ARG:HD2	1.91	0.51
37:BC:77:ILE:HG13	37:BC:115:ALA:CB	2.40	0.51
37:BC:114:VAL:HG12	37:BC:144:THR:CB	2.41	0.51
37:BC:173:ALA:HB3	37:BC:192:PHE:CZ	2.45	0.51
39:BE:51:PHE:N	39:BE:74:PRO:HG3	2.25	0.51
41:BG:12:TYR:O	41:BG:17:PRO:HD2	2.11	0.51
42:BH:144:VAL:O	42:BH:148:ILE:HG12	2.10	0.51
44:BK:97:UNK:O	44:BK:134:UNK:O	2.29	0.51
46:BO:60:ALA:CA	46:BO:87:ILE:HG12	2.25	0.51
47:BP:16:ARG:NE	47:BP:18:ARG:HB2	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:28:VAL:HG13	51:BT:45:PHE:O	2.09	0.51
51:BT:50:ILE:HD11	51:BT:64:ARG:CB	2.40	0.51
51:BT:123:GLN:HA	51:BT:126:ALA:HB2	1.93	0.51
52:BU:76:TYR:HD1	52:BU:77:SER:N	2.08	0.51
1:AA:9:G:C2	1:AA:26:A:C2	2.99	0.51
1:AA:148:G:C2	1:AA:175:C:N3	2.78	0.51
1:AA:241:C:N3	1:AA:242:C:C5	2.79	0.51
1:AA:878:G:C6	1:AA:879:C:N4	2.78	0.51
1:AA:938:A:O2'	1:AA:939:G:H5'	2.09	0.51
1:AA:944:G:C2	1:AA:1340:A:C6	2.99	0.51
1:AA:1431:C:N3	1:AA:1470:G:C2	2.78	0.51
2:AB:153:ARG:HG2	2:AB:154:LEU:H	1.75	0.51
3:AC:131:ARG:NH1	3:AC:166:GLU:HG3	2.23	0.51
3:AC:157:ILE:HD13	3:AC:166:GLU:HB2	1.91	0.51
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.93	0.51
13:AM:56:LEU:C	13:AM:60:VAL:HG23	2.35	0.51
15:AO:21:ASP:OD1	15:AO:21:ASP:O	2.28	0.51
15:AO:61:GLY:O	15:AO:62:GLN:C	2.53	0.51
20:AT:73:HIS:C	20:AT:74:LYS:HD3	2.36	0.51
24:AY:169:ILE:C	24:AY:170:THR:CG2	2.84	0.51
24:AY:380:THR:CB	24:AY:383:GLU:HB2	2.40	0.51
24:AY:401:ILE:CG2	24:AY:412:LEU:HD21	2.40	0.51
24:AY:438:VAL:O	24:AY:446:PHE:HE2	1.93	0.51
24:AY:475:GLU:O	24:AY:522:GLN:OE1	2.29	0.51
27:B2:16:LEU:O	27:B2:17:SER:O	2.28	0.51
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.35	0.51
30:B5:13:LYS:O	30:B5:16:ARG:CB	2.54	0.51
31:B6:9:LEU:HD13	31:B6:10:LEU:N	2.25	0.51
34:B9:10:ILE:O	34:B9:11:CYS:CB	2.57	0.51
35:BA:171:G:O2'	35:BA:172:C:H5'	2.10	0.51
35:BA:363(E):U:H2'	35:BA:363(F):A:C1'	2.40	0.51
35:BA:382:G:N2	35:BA:393:C:C2	2.79	0.51
35:BA:558:G:P	45:BN:111:PRO:HD2	2.50	0.51
35:BA:813:U:C2	35:BA:814:C:C4	2.99	0.51
35:BA:864:G:C6	35:BA:865:C:N4	2.79	0.51
35:BA:1083:U:O2	35:BA:1086:A:N1	2.44	0.51
35:BA:1402:C:O2'	35:BA:1403:C:H5'	2.11	0.51
35:BA:1666:G:H3'	35:BA:1667:G:C8	2.45	0.51
35:BA:1759:A:N7	35:BA:2696:U:H1'	2.25	0.51
35:BA:1825:A:OP2	38:BD:220:HIS:NE2	2.32	0.51
35:BA:1882:C:H2'	35:BA:1882:C:O2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2143:C:H5'	35:BA:2182:G:C4'	2.40	0.51
35:BA:2206:G:N2	35:BA:2207:G:H4'	2.26	0.51
35:BA:2469:A:N7	35:BA:2482:G:C1'	2.68	0.51
35:BA:2703:C:HO2'	35:BA:2704:C:H5'	1.69	0.51
35:BA:2770:G:H5'	35:BA:2771:C:OP2	2.10	0.51
36:BB:105:A:O2'	36:BB:106:G:H5'	2.10	0.51
38:BD:111:LEU:HD11	38:BD:115:GLN:NE2	2.21	0.51
38:BD:154:LYS:C	38:BD:155:LEU:HD12	2.34	0.51
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.93	0.51
40:BF:42:ALA:CA	40:BF:45:ARG:HG3	2.33	0.51
45:BN:44:PRO:O	45:BN:45:ASN:CB	2.55	0.51
47:BP:67:MET:C	47:BP:69:GLY:N	2.68	0.51
50:BS:27:SER:C	50:BS:28:VAL:CG2	2.83	0.51
50:BS:51:ALA:HB3	50:BS:73:LEU:HB2	1.91	0.51
50:BS:58:LEU:CD2	50:BS:65:VAL:HG13	2.40	0.51
50:BS:102:ALA:HB3	50:BS:103:GLU:OE1	2.11	0.51
52:BU:83:LEU:HD12	52:BU:83:LEU:N	2.24	0.51
56:BY:81:LYS:O	56:BY:82:PRO:O	2.28	0.51
57:BZ:14:LYS:O	57:BZ:17:ALA:HB3	2.10	0.51
57:BZ:119:GLU:CG	57:BZ:122:ARG:CZ	2.89	0.51
57:BZ:128:VAL:HG22	57:BZ:129:SER:N	2.25	0.51
1:AA:101:A:H2'	1:AA:102:G:O5'	2.11	0.51
1:AA:408:A:H2'	1:AA:409:G:H8	1.76	0.51
1:AA:585:G:C4'	12:AL:8:ASN:ND2	2.71	0.51
1:AA:683:G:H3'	1:AA:684:A:H8	1.75	0.51
1:AA:950:U:H3'	13:AM:102:ARG:HH22	1.75	0.51
1:AA:951:G:N1	1:AA:1231:G:C6	2.78	0.51
1:AA:971:G:H4'	1:AA:972:C:C5'	2.41	0.51
1:AA:1152:A:C5'	10:AJ:13:HIS:HD2	2.19	0.51
1:AA:1333:A:N6	1:AA:1334:G:C2	2.79	0.51
2:AB:223:ILE:O	2:AB:224:GLN:C	2.53	0.51
3:AC:9:GLY:O	3:AC:10:PHE:C	2.51	0.51
5:AE:84:PHE:CZ	5:AE:133:TYR:CD2	2.98	0.51
6:AF:29:ALA:O	6:AF:30:LEU:C	2.53	0.51
7:AG:70:LYS:O	7:AG:138:LYS:HE3	2.10	0.51
12:AL:24:VAL:CG1	12:AL:98:TYR:CE2	2.91	0.51
19:AS:51:VAL:O	19:AS:58:VAL:N	2.44	0.51
24:AY:20:SER:C	24:AY:126:LEU:HD11	2.35	0.51
24:AY:136:PRO:O	24:AY:137:ILE:CG1	2.54	0.51
24:AY:420:SER:CB	24:AY:427:VAL:CG2	2.88	0.51
25:B0:17:GLN:O	25:B0:18:ALA:C	2.54	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:85:G:P	56:BY:30:VAL:HB	2.49	0.51
35:BA:116:C:N4	35:BA:117:G:C6	2.78	0.51
35:BA:134:C:C4	35:BA:135:G:N7	2.79	0.51
35:BA:310:A:O2'	35:BA:311:A:C2'	2.57	0.51
35:BA:526:A:OP1	35:BA:527:C:OP1	2.27	0.51
35:BA:649:G:H2'	35:BA:650:C:C6	2.45	0.51
35:BA:668:G:H2'	35:BA:670:A:N6	2.24	0.51
35:BA:948:G:C6	35:BA:949:C:C4	2.99	0.51
35:BA:1202:C:H2'	35:BA:1203:G:C5'	2.40	0.51
35:BA:1674:G:H1'	35:BA:1676:A:N6	2.25	0.51
35:BA:2131:G:OP1	35:BA:2132:U:H3'	2.10	0.51
35:BA:2308:G:N7	35:BA:2310:A:H5'	2.25	0.51
35:BA:2325:G:C6	35:BA:2326:C:N4	2.78	0.51
35:BA:2459:A:N7	35:BA:2460:U:C5	2.79	0.51
35:BA:2489:G:O2'	35:BA:2490:G:H5'	2.11	0.51
35:BA:2619:C:O3'	39:BE:152:LYS:HA	2.10	0.51
35:BA:2838:G:O4'	49:BR:45:ARG:NH1	2.44	0.51
36:BB:20:C:C2'	36:BB:21:G:H5''	2.30	0.51
37:BC:59:ARG:HB2	37:BC:164:ARG:HG3	1.92	0.51
37:BC:64:LEU:HD12	37:BC:159:GLY:O	2.10	0.51
39:BE:200:GLU:CD	39:BE:200:GLU:N	2.68	0.51
41:BG:42:GLY:C	41:BG:43:LEU:HD22	2.35	0.51
41:BG:86:MET:N	41:BG:87:PRO:CD	2.73	0.51
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.92	0.51
47:BP:95:VAL:CG2	47:BP:125:VAL:HG23	2.41	0.51
48:BQ:54:MET:CE	48:BQ:64:ILE:HD13	2.40	0.51
48:BQ:110:THR:O	48:BQ:111:GLU:C	2.53	0.51
50:BS:15:ARG:HH11	50:BS:15:ARG:CB	2.24	0.51
51:BT:28:VAL:CG2	51:BT:46:GLU:HA	2.40	0.51
51:BT:91:ARG:HA	51:BT:117:ASP:H	1.75	0.51
54:BW:42:ARG:HG2	54:BW:42:ARG:O	2.11	0.51
57:BZ:111:VAL:C	57:BZ:113:ALA:O	2.54	0.51
1:AA:80:G:C2'	1:AA:81:U:H5'	2.41	0.51
1:AA:576:G:OP2	1:AA:576:G:H3'	2.09	0.51
1:AA:1014:A:N3	19:AS:34:TRP:CD2	2.78	0.51
1:AA:1060:C:C5'	10:AJ:51:ARG:HD3	2.28	0.51
1:AA:1068:G:N7	1:AA:1108:G:N2	2.59	0.51
1:AA:1249:C:H4'	9:AI:36:TYR:OH	2.11	0.51
2:AB:17:PHE:HD1	2:AB:17:PHE:C	2.09	0.51
2:AB:83:MET:O	2:AB:86:GLU:N	2.44	0.51
2:AB:159:PRO:HB2	2:AB:161:ALA:O	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:209:ARG:O	2:AB:213:LEU:HB2	2.11	0.51
2:AB:236:TYR:N	2:AB:236:TYR:CD1	2.76	0.51
3:AC:157:ILE:CG2	3:AC:164:ARG:NH2	2.66	0.51
4:AD:192:GLU:O	4:AD:193:ASP:C	2.54	0.51
6:AF:43:LEU:H	6:AF:43:LEU:CD2	2.23	0.51
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.70	0.51
9:AI:57:GLY:O	9:AI:58:ARG:CB	2.59	0.51
11:AK:115:PRO:C	11:AK:117:ASN:N	2.52	0.51
12:AL:126:LYS:CB	24:AY:487:ARG:HE	2.19	0.51
15:AO:77:ARG:O	15:AO:81:LEU:HB3	2.11	0.51
15:AO:80:ALA:O	15:AO:81:LEU:C	2.53	0.51
20:AT:88:VAL:HG12	20:AT:92:LEU:CD1	2.40	0.51
24:AY:369:ASN:ND2	24:AY:373:ILE:CG1	2.59	0.51
24:AY:412:LEU:HA	24:AY:459:VAL:HG11	1.92	0.51
27:B2:65:ASN:HD21	35:BA:112:U:H5'	1.76	0.51
29:B4:9:LEU:CD1	29:B4:10:VAL:H	2.21	0.51
30:B5:8:LYS:CG	35:BA:2054:A:C2	2.94	0.51
33:B8:45:GLY:O	33:B8:46:ARG:CB	2.55	0.51
35:BA:271(J):C:H2'	35:BA:271(J):C:O2	2.10	0.51
35:BA:438:G:O2'	35:BA:440:G:H5'	2.11	0.51
35:BA:523:C:C2'	35:BA:524:U:H5'	2.41	0.51
35:BA:530:G:H21	35:BA:2021:C:H1'	1.76	0.51
35:BA:614(C):A:H8	35:BA:614(C):A:O5'	1.94	0.51
35:BA:752:A:C8	35:BA:1781:C:O2	2.63	0.51
35:BA:875:G:O2'	35:BA:876:C:H5'	2.09	0.51
35:BA:917:A:H2'	35:BA:918:A:O4'	2.11	0.51
35:BA:998:C:OP2	52:BU:93:LYS:NZ	2.39	0.51
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.45	0.51
35:BA:1636:C:O5'	35:BA:1636:C:H6	1.93	0.51
35:BA:1806:C:H2'	35:BA:1807:G:C8	2.45	0.51
35:BA:2123:G:C2	35:BA:2124:G:C8	2.98	0.51
35:BA:2206:G:N2	35:BA:2208:A:C2	2.78	0.51
35:BA:2243:U:H2'	35:BA:2244:U:H6	1.72	0.51
35:BA:2464:C:O2'	35:BA:2465:C:P	2.68	0.51
35:BA:2631:G:N2	39:BE:61:ARG:HH22	2.09	0.51
35:BA:2726:U:HO2'	35:BA:2727:G:H8	1.56	0.51
36:BB:80:U:H2'	36:BB:81:G:N2	2.24	0.51
38:BD:141:VAL:O	38:BD:194:GLY:O	2.29	0.51
39:BE:46:ALA:C	39:BE:84:PHE:O	2.54	0.51
39:BE:108:SER:O	39:BE:109:LYS:C	2.53	0.51
39:BE:116:VAL:CG2	39:BE:122:PHE:CD2	2.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:113:ARG:HB3	41:BG:140:ILE:HB	1.93	0.51
41:BG:129:GLY:C	41:BG:130:ASN:CG	2.76	0.51
42:BH:83:TYR:HB2	42:BH:134:SER:HA	1.91	0.51
43:BJ:68:UNK:C	43:BJ:70:UNK:N	2.69	0.51
48:BQ:70:PRO:HA	48:BQ:94:VAL:O	2.09	0.51
49:BR:42:LYS:O	49:BR:45:ARG:CG	2.58	0.51
50:BS:63:THR:O	50:BS:66:ALA:N	2.42	0.51
51:BT:25:GLY:O	51:BT:48:ILE:HG22	2.10	0.51
52:BU:17:ILE:CG2	52:BU:39:LEU:HD11	2.41	0.51
52:BU:21:ALA:HB2	52:BU:39:LEU:CD2	2.29	0.51
57:BZ:30:ASN:O	57:BZ:32:HIS:N	2.43	0.51
57:BZ:153:SER:HA	57:BZ:155:LEU:CD2	2.40	0.51
1:AA:9:G:OP2	5:AE:121:LYS:HD2	2.11	0.51
1:AA:66:G:O4'	1:AA:173:U:C4	2.64	0.51
1:AA:80:G:H1	1:AA:90:U:H5'	1.76	0.51
1:AA:260:G:O2'	1:AA:261:U:H5'	2.11	0.51
1:AA:805:C:C2'	1:AA:806:C:H5'	2.41	0.51
2:AB:7:VAL:CG1	2:AB:11:LEU:HD12	2.41	0.51
3:AC:52:LEU:CB	3:AC:70:VAL:HG22	2.39	0.51
4:AD:13:ARG:HA	4:AD:33:MET:HE2	1.89	0.51
13:AM:81:LEU:C	13:AM:93:ARG:NH1	2.69	0.51
13:AM:97:PRO:HB2	13:AM:101:GLN:HE21	1.75	0.51
14:AN:12:ARG:CB	14:AN:14:PRO:HD2	2.37	0.51
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.93	0.51
20:AT:14:LYS:C	20:AT:16:HIS:N	2.68	0.51
22:AV:17(A):U:O2'	22:AV:18:G:C4'	2.54	0.51
24:AY:171:TRP:C	24:AY:182:VAL:HG13	2.35	0.51
26:B1:83:GLU:N	26:B1:83:GLU:OE1	2.44	0.51
30:B5:45:VAL:HG13	30:B5:51:TYR:H	1.76	0.51
35:BA:296:C:H42	35:BA:342:G:H1	1.58	0.51
35:BA:391:G:C2'	35:BA:392:C:H5'	2.41	0.51
35:BA:412:A:C2	35:BA:413:C:H1'	2.46	0.51
35:BA:572:A:C2	35:BA:2033:A:C2	2.98	0.51
35:BA:593:G:H2'	35:BA:594:U:O4'	2.10	0.51
35:BA:699:A:C8	35:BA:734:A:C2	2.99	0.51
35:BA:942:G:H5''	47:BP:36:LYS:N	2.26	0.51
35:BA:943:U:OP2	47:BP:38:GLN:NE2	2.44	0.51
35:BA:977:G:H2'	35:BA:978:G:C8	2.43	0.51
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.72	0.51
35:BA:1248:G:OP1	40:BF:92:PRO:HG3	2.10	0.51
35:BA:2143:C:O2'	35:BA:2144:U:H5'	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2196:C:O2'	35:BA:2197:U:H5'	2.10	0.51
35:BA:2870:C:C2'	35:BA:2871:C:H5'	2.41	0.51
39:BE:112:GLY:HA2	39:BE:159:HIS:CD2	2.46	0.51
41:BG:180:PHE:C	41:BG:182:LYS:H	2.19	0.51
47:BP:47:ASP:CB	47:BP:48:PRO:CA	2.76	0.51
51:BT:8:LYS:CA	51:BT:11:GLU:OE2	2.59	0.51
55:BX:6:ASP:O	55:BX:9:LEU:CD2	2.59	0.51
1:AA:623:C:H3'	1:AA:624:C:H6	1.76	0.51
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.11	0.51
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.10	0.51
1:AA:1179:A:OP2	9:AI:93:ARG:NH2	2.44	0.51
1:AA:1319:A:OP1	19:AS:5:LEU:HD23	2.11	0.51
1:AA:1382:C:O2'	1:AA:1383:C:H5'	2.10	0.51
1:AA:1414:U:C2'	1:AA:1415:G:H8	2.21	0.51
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.89	0.51
2:AB:42:ILE:CD1	2:AB:203:GLY:HA2	2.40	0.51
2:AB:127:ILE:C	2:AB:135:GLN:HE22	2.19	0.51
2:AB:187:LEU:CD1	2:AB:205:ASP:HB3	2.40	0.51
3:AC:88:ARG:HH11	3:AC:88:ARG:CG	2.24	0.51
3:AC:92:ALA:O	3:AC:95:THR:N	2.29	0.51
9:AI:63:ILE:HD13	9:AI:77:ILE:CD1	2.41	0.51
12:AL:75:HIS:CD2	12:AL:77:LEU:HB2	2.46	0.51
13:AM:90:LEU:H	13:AM:90:LEU:CD2	2.03	0.51
17:AQ:29:HIS:HA	17:AQ:36:ILE:HD11	1.93	0.51
19:AS:7:LYS:HB2	19:AS:7:LYS:HZ2	1.76	0.51
22:AV:40:C:H2'	22:AV:41:C:C6	2.46	0.51
22:AV:48:C:H6	22:AV:48:C:P	2.34	0.51
24:AY:15:THR:O	24:AY:106:VAL:HG23	2.11	0.51
25:B0:35:ASN:OD1	35:BA:2353:G:O2'	2.23	0.51
31:B6:42:TRP:HA	31:B6:42:TRP:CE3	2.45	0.51
35:BA:139(A):G:N2	55:BX:44:GLU:OE1	2.33	0.51
35:BA:144:C:H2'	35:BA:145:G:H8	1.76	0.51
35:BA:249:C:H2'	35:BA:2395:C:P	2.51	0.51
35:BA:401:A:H2'	35:BA:402:A:H8	1.76	0.51
35:BA:754:C:H2'	35:BA:755:C:H6	1.66	0.51
35:BA:874:G:H2'	35:BA:875:G:H8	1.75	0.51
35:BA:1108:U:H5'	35:BA:1109:C:OP2	2.11	0.51
35:BA:1264:G:H3'	35:BA:1265:A:H5''	1.93	0.51
35:BA:1453:U:H5	35:BA:2702:U:O4	1.94	0.51
35:BA:1551:C:H2'	35:BA:1552:G:H5'	1.92	0.51
35:BA:1907:G:C5	35:BA:1908:C:C4	2.98	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2026:C:C2	35:BA:2027:G:C8	2.99	0.51
35:BA:2072:G:H2'	35:BA:2073:C:O4'	2.10	0.51
35:BA:2580:U:H5	35:BA:2581:G:C6	2.25	0.51
35:BA:2766:G:H2'	35:BA:2767:C:C6	2.46	0.51
36:BB:116:G:N3	36:BB:117:G:C8	2.79	0.51
37:BC:55:ASP:C	37:BC:56:GLN:HG3	2.35	0.51
37:BC:180:PHE:CD2	37:BC:184:LYS:HG3	2.41	0.51
38:BD:4:LYS:CE	38:BD:20:ASP:OD1	2.57	0.51
38:BD:247:ALA:HB2	38:BD:253:GLN:HG2	1.93	0.51
38:BD:248:SER:CB	38:BD:252:TRP:CZ2	2.94	0.51
39:BE:96:PHE:HD1	39:BE:100:GLU:OE1	1.94	0.51
39:BE:111:ARG:HA	49:BR:2:ARG:HG2	1.92	0.51
41:BG:102:PHE:HD1	41:BG:103:LEU:N	2.08	0.51
42:BH:162:ILE:O	42:BH:162:ILE:CG1	2.59	0.51
45:BN:40:PRO:HB3	52:BU:64:ARG:O	2.10	0.51
45:BN:57:ALA:CB	45:BN:124:ALA:HA	2.41	0.51
47:BP:67:MET:C	47:BP:69:GLY:H	2.19	0.51
50:BS:34:HIS:HB3	50:BS:53:SER:HB3	1.93	0.51
52:BU:66:ASN:ND2	52:BU:66:ASN:O	2.41	0.51
53:BV:66:ARG:HA	53:BV:90:PRO:HA	1.92	0.51
56:BY:15:VAL:O	56:BY:15:VAL:CG1	2.59	0.51
56:BY:95:LYS:HA	56:BY:101:LYS:HA	1.93	0.51
56:BY:96:ILE:HG13	56:BY:99:CYS:HB2	1.93	0.51
57:BZ:65:GLN:HB3	57:BZ:67:LEU:HD11	1.93	0.51
57:BZ:100:VAL:HG23	57:BZ:126:VAL:HG22	1.89	0.51
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.74	0.51
1:AA:1093:A:H2	1:AA:1109:C:O2	1.93	0.51
1:AA:1357:A:HO2'	14:AN:34:TYR:HE1	1.58	0.51
2:AB:129:GLU:O	2:AB:130:ARG:O	2.29	0.51
3:AC:128:PHE:O	3:AC:129:ALA:C	2.54	0.51
4:AD:111:ALA:HB3	4:AD:117:ALA:HB2	1.93	0.51
9:AI:53:VAL:O	9:AI:55:ALA:N	2.44	0.51
13:AM:66:LEU:O	13:AM:67:GLU:C	2.53	0.51
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.24	0.51
15:AO:3:ILE:HG13	15:AO:8:LYS:HG2	1.93	0.51
15:AO:3:ILE:HD11	15:AO:8:LYS:HE2	1.93	0.51
15:AO:11:VAL:O	15:AO:15:PHE:HD1	1.93	0.51
24:AY:445:GLN:O	24:AY:448:VAL:CB	2.53	0.51
28:B3:45:GLY:O	28:B3:48:GLU:N	2.44	0.51
35:BA:334:C:P	35:BA:335:C:H41	2.33	0.51
35:BA:459:U:C2	35:BA:460:A:C8	2.99	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:654(M):C:H2'	35:BA:654(N):G:H8	1.72	0.51
35:BA:832:G:P	47:BP:40:SER:HB3	2.50	0.51
35:BA:845:G:O2'	35:BA:846:C:C5	2.64	0.51
35:BA:958:U:C6	35:BA:958:U:H3'	2.45	0.51
35:BA:1293:C:H2'	35:BA:1294:U:C6	2.43	0.51
35:BA:1777:U:O2'	35:BA:1778:U:H5'	2.11	0.51
35:BA:2125:G:N2	35:BA:2172:U:OP1	2.42	0.51
35:BA:2187:G:H2'	35:BA:2188:C:C5'	2.34	0.51
35:BA:2306:C:C5	35:BA:2307:G:O2'	2.58	0.51
35:BA:2684:U:O4'	46:BO:70:LYS:HD2	2.10	0.51
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.09	0.51
37:BC:14:VAL:HG23	37:BC:32:LEU:HD21	1.92	0.51
37:BC:45:ALA:HB3	37:BC:171:ILE:HG21	1.93	0.51
38:BD:35:LYS:CG	38:BD:63:ARG:HG2	2.40	0.51
38:BD:45:ASN:N	38:BD:45:ASN:HD22	2.09	0.51
38:BD:66:ASP:CG	38:BD:103:ARG:CZ	2.83	0.51
38:BD:214:TRP:CD1	38:BD:214:TRP:N	2.79	0.51
38:BD:241:PRO:O	38:BD:242:ARG:C	2.53	0.51
38:BD:246:PRO:O	38:BD:247:ALA:HB2	2.09	0.51
40:BF:185:ASP:O	40:BF:188:ARG:HG2	2.10	0.51
42:BH:103:LEU:O	42:BH:105:LEU:N	2.44	0.51
46:BO:24:VAL:O	46:BO:24:VAL:CG2	2.59	0.51
48:BQ:31:ASP:O	48:BQ:32:TYR:CD1	2.64	0.51
49:BR:66:VAL:C	49:BR:68:ARG:N	2.65	0.51
50:BS:35:ILE:C	50:BS:36:TYR:HD1	2.19	0.51
50:BS:70:GLY:C	50:BS:72:ALA:N	2.66	0.51
51:BT:16:ARG:NH2	51:BT:82:LEU:O	2.43	0.51
51:BT:27:THR:O	51:BT:28:VAL:CB	2.59	0.51
52:BU:74:LEU:HD13	52:BU:75:ASN:N	2.24	0.51
52:BU:76:TYR:CE1	52:BU:80:ILE:HG13	2.45	0.51
52:BU:85:LYS:HG2	52:BU:116:ALA:HB1	1.93	0.51
56:BY:28:LYS:HG2	56:BY:39:VAL:HA	1.93	0.51
56:BY:82:PRO:O	56:BY:96:ILE:HG22	2.11	0.51
57:BZ:120:ILE:HG12	57:BZ:171:ILE:C	2.36	0.51
1:AA:42:G:H2'	1:AA:43:C:C6	2.46	0.51
1:AA:300:A:H1'	1:AA:565:U:O2	2.11	0.51
1:AA:356:A:H2	1:AA:368:U:O2	1.94	0.51
1:AA:868:C:H2'	1:AA:869:G:C5'	2.40	0.51
1:AA:882:C:O2'	1:AA:883:C:H5'	2.11	0.51
1:AA:1013:G:N2	1:AA:1016:A:OP2	2.44	0.51
1:AA:1026:G:H5'	1:AA:1027:C:OP2	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1149:C:H2'	1:AA:1150:U:H6	1.70	0.51
1:AA:1187:G:N3	1:AA:1187:G:H2'	2.26	0.51
1:AA:1432:G:N2	1:AA:1469:G:C6	2.79	0.51
1:AA:1518:A:C2	1:AA:1519:A:C2	2.99	0.51
2:AB:28:PHE:O	2:AB:28:PHE:HD1	1.93	0.51
2:AB:224:GLN:O	2:AB:225:ALA:C	2.54	0.51
3:AC:83:ARG:C	3:AC:85:ARG:H	2.18	0.51
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.24	0.51
5:AE:91:LEU:CD1	5:AE:120:THR:HB	2.41	0.51
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.11	0.51
13:AM:4:ILE:HG23	13:AM:57:ARG:HB2	1.93	0.51
13:AM:46:LYS:HG2	13:AM:46:LYS:O	2.11	0.51
14:AN:4:LYS:HB2	14:AN:4:LYS:HZ3	1.74	0.51
15:AO:42:HIS:O	15:AO:45:VAL:HG12	2.11	0.51
20:AT:53:LEU:HD11	20:AT:92:LEU:HD13	1.93	0.51
24:AY:15:THR:O	24:AY:106:VAL:CG2	2.59	0.51
24:AY:122:ARG:O	24:AY:123:THR:C	2.52	0.51
24:AY:131:ARG:HH22	24:AY:162:LEU:HD13	1.76	0.51
24:AY:144:LEU:HD12	24:AY:179:PHE:HE1	1.71	0.51
25:B0:32:ARG:H	25:B0:35:ASN:ND2	2.08	0.51
26:B1:85:LEU:O	26:B1:87:PRO:HD3	2.10	0.51
27:B2:57:ILE:O	27:B2:60:LEU:HB2	2.10	0.51
28:B3:54:VAL:CG1	28:B3:55:ARG:N	2.74	0.51
30:B5:10:LYS:O	30:B5:11:THR:C	2.54	0.51
35:BA:7:G:H2'	35:BA:8:A:H8	1.76	0.51
35:BA:363:G:H2'	35:BA:363(A):A:H8	1.76	0.51
35:BA:491:G:H2'	35:BA:492:A:C8	2.46	0.51
35:BA:527:C:O5'	35:BA:2779:U:H5	1.92	0.51
35:BA:847:U:C2'	35:BA:848:G:H5''	2.38	0.51
35:BA:1011:G:C2	35:BA:1013:C:C2	2.99	0.51
35:BA:1494:A:N3	35:BA:1494:A:C3'	2.74	0.51
35:BA:1826:G:C2	35:BA:1827:C:C6	2.99	0.51
35:BA:1977:A:C2'	35:BA:1978:A:O4'	2.55	0.51
35:BA:2199:A:C5'	35:BA:2200:C:OP2	2.49	0.51
35:BA:2223:G:C4'	38:BD:269:PHE:HZ	2.23	0.51
35:BA:2249:U:H4'	35:BA:2275:C:C5	2.46	0.51
35:BA:2305:A:C5'	41:BG:134:GLY:HA3	2.05	0.51
35:BA:2830:G:OP1	39:BE:75:VAL:CG1	2.58	0.51
37:BC:80:GLY:O	37:BC:83:ILE:HD12	2.10	0.51
37:BC:181:PRO:CB	37:BC:182:PRO:CD	2.87	0.51
38:BD:17:THR:O	38:BD:211:ARG:NH2	2.38	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:45:ASN:ND2	38:BD:46:GLN:H	2.09	0.51
38:BD:263:ARG:NH1	38:BD:263:ARG:HB3	2.26	0.51
40:BF:203:GLN:O	40:BF:205:ARG:N	2.43	0.51
43:BJ:118:UNK:O	43:BJ:119:UNK:CB	2.59	0.51
45:BN:10:GLU:CD	45:BN:11:PRO:HD2	2.36	0.51
45:BN:118:LYS:O	45:BN:120:LEU:N	2.44	0.51
49:BR:102:GLU:O	49:BR:103:ARG:C	2.53	0.51
51:BT:91:ARG:O	51:BT:117:ASP:CB	2.58	0.51
54:BW:10:VAL:O	54:BW:11:ARG:CB	2.59	0.51
54:BW:14:PRO:HG3	54:BW:101:SER:CB	2.29	0.51
56:BY:60:PHE:HA	56:BY:62:GLU:OE1	2.11	0.51
1:AA:88:A:C2	1:AA:89:C:H5	2.28	0.50
1:AA:229:U:OP1	16:AP:59:TRP:CH2	2.64	0.50
1:AA:265:G:H2'	1:AA:267:C:C5	2.38	0.50
1:AA:276:G:O3'	17:AQ:68:ARG:NH1	2.45	0.50
1:AA:279:A:C8	1:AA:281:G:N2	2.78	0.50
1:AA:346:G:O2'	1:AA:347:G:C8	2.64	0.50
1:AA:966:G:N2	1:AA:967:C:C2	2.78	0.50
1:AA:1151:A:C4	1:AA:1152:A:C8	2.99	0.50
1:AA:1201:A:H4'	1:AA:1202:G:H5''	1.93	0.50
1:AA:1309:G:C2'	1:AA:1310:G:H5'	2.40	0.50
1:AA:1342:C:C5'	9:AI:125:TYR:HB3	2.38	0.50
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.69	0.50
2:AB:15:VAL:HG21	2:AB:209:ARG:NE	2.26	0.50
2:AB:163:PHE:CD1	2:AB:185:ILE:HB	2.46	0.50
4:AD:175:SER:OG	4:AD:186:LEU:HD21	2.11	0.50
5:AE:87:SER:OG	5:AE:131:ILE:CD1	2.57	0.50
5:AE:107:ARG:C	5:AE:109:ILE:H	2.19	0.50
6:AF:25:ILE:HD13	6:AF:25:ILE:O	2.11	0.50
6:AF:71:ARG:HG3	6:AF:71:ARG:NH1	2.26	0.50
9:AI:22:GLY:HA3	9:AI:60:ASP:CG	2.35	0.50
9:AI:52:ALA:CB	9:AI:95:LYS:HZ3	2.24	0.50
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.20	0.50
11:AK:57:THR:HG23	11:AK:60:ALA:N	2.19	0.50
12:AL:6:THR:O	12:AL:8:ASN:N	2.45	0.50
12:AL:92:ASP:C	12:AL:93:LEU:HD23	2.35	0.50
18:AR:22:VAL:HG11	18:AR:43:PHE:CD1	2.46	0.50
24:AY:99:THR:O	24:AY:100:TYR:C	2.53	0.50
24:AY:186:TYR:N	24:AY:186:TYR:CD1	2.79	0.50
24:AY:226:GLN:HE22	42:BH:97:ARG:CZ	2.24	0.50
24:AY:267:HIS:CD2	24:AY:267:HIS:H	2.28	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:312:ARG:NH1	24:AY:370:HIS:HB3	2.25	0.50
24:AY:378:THR:OG1	24:AY:386:LYS:HG2	2.11	0.50
24:AY:389:GLY:O	24:AY:390:ILE:CB	2.59	0.50
28:B3:41:PRO:O	28:B3:44:ARG:HB3	2.11	0.50
32:B7:38:GLY:O	35:BA:458:G:H5'	2.11	0.50
35:BA:30:G:H2'	35:BA:31:C:O4'	2.11	0.50
35:BA:328:U:H4'	56:BY:68:HIS:CE1	2.47	0.50
35:BA:779:U:H2'	35:BA:780:G:O4'	2.10	0.50
35:BA:908:C:O2'	35:BA:909:A:C5'	2.57	0.50
35:BA:910:A:N6	48:BQ:13:GLN:H	2.09	0.50
35:BA:954:G:OP1	48:BQ:15:GLY:HA2	2.11	0.50
35:BA:1060:U:H5'	35:BA:1061:U:H5	1.75	0.50
35:BA:1138:G:O2'	45:BN:102:ALA:O	2.29	0.50
35:BA:1164:G:H1	35:BA:1185:C:H42	1.59	0.50
35:BA:1720:U:H2'	35:BA:1721:G:O4'	2.11	0.50
35:BA:2009:G:C5'	54:BW:40:ASN:ND2	2.74	0.50
35:BA:2090:G:C6	35:BA:2091:U:C4	2.99	0.50
35:BA:2247:A:H2'	35:BA:2248:C:C6	2.47	0.50
35:BA:2455:G:O2'	35:BA:2456:C:H5'	2.12	0.50
35:BA:2464:C:N3	35:BA:2487:G:C2	2.79	0.50
35:BA:2535:G:H2'	35:BA:2536:G:O4'	2.12	0.50
37:BC:114:VAL:HG12	37:BC:144:THR:HB	1.93	0.50
39:BE:198:VAL:HG12	39:BE:199:ARG:H	1.72	0.50
40:BF:158:THR:HG23	40:BF:160:ASN:H	1.76	0.50
40:BF:194:MET:SD	40:BF:199:TRP:HD1	2.34	0.50
41:BG:166:ASP:C	41:BG:168:GLU:N	2.69	0.50
42:BH:154:PRO:O	42:BH:155:SER:OG	2.26	0.50
46:BO:8:LEU:HD12	46:BO:8:LEU:N	2.26	0.50
48:BQ:16:ARG:CG	48:BQ:17:LEU:H	2.24	0.50
48:BQ:111:GLU:O	48:BQ:113:GLN:N	2.44	0.50
49:BR:99:LYS:HD2	49:BR:99:LYS:N	2.22	0.50
50:BS:94:TYR:CD1	50:BS:94:TYR:O	2.63	0.50
52:BU:88:ILE:HD12	52:BU:90:VAL:HG23	1.93	0.50
52:BU:96:ALA:O	52:BU:99:ALA:N	2.38	0.50
53:BV:39:LEU:HA	53:BV:47:VAL:CG1	2.40	0.50
57:BZ:109:ALA:O	57:BZ:111:VAL:N	2.45	0.50
1:AA:62:U:H4'	1:AA:385:C:O2	2.11	0.50
1:AA:347:G:H21	1:AA:348:G:H1'	1.77	0.50
1:AA:552:U:C2	1:AA:553:A:C8	3.00	0.50
1:AA:708:C:H2'	1:AA:709:G:H8	1.76	0.50
1:AA:783:C:O2'	1:AA:784:C:H5'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:833:U:H3	1:AA:853:G:H1	1.58	0.50
1:AA:834:C:C2	1:AA:853:G:C2	2.99	0.50
1:AA:981:U:H2'	1:AA:982:U:C6	2.47	0.50
1:AA:1068:G:N7	1:AA:1094:G:H2'	2.26	0.50
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.75	0.50
1:AA:1371:G:H2'	1:AA:1372:U:H6	1.72	0.50
1:AA:1397:C:O4'	1:AA:1397:C:O2	2.29	0.50
2:AB:67:THR:HG22	2:AB:90:MET:CE	2.41	0.50
2:AB:69:LEU:HD12	2:AB:71:VAL:CG2	2.41	0.50
2:AB:212:GLN:C	2:AB:212:GLN:CD	2.79	0.50
4:AD:12:CYS:SG	4:AD:19:LEU:CB	2.98	0.50
4:AD:46:LYS:O	4:AD:47:ARG:C	2.55	0.50
6:AF:14:LEU:CD1	6:AF:18:GLN:HB2	2.40	0.50
6:AF:26:ILE:HG22	6:AF:27:GLN:N	2.26	0.50
6:AF:47:ARG:HB3	6:AF:47:ARG:HH11	1.68	0.50
8:AH:56:LYS:O	8:AH:58:TYR:HD2	1.94	0.50
9:AI:6:GLY:HA3	9:AI:84:ALA:HB2	1.92	0.50
9:AI:46:ALA:HB2	9:AI:74:ILE:HG23	1.94	0.50
19:AS:38:SER:O	19:AS:70:LYS:HA	2.10	0.50
22:AV:37:A:C2'	22:AV:38:A:H5'	2.41	0.50
22:AV:64:G:H2'	22:AV:65:C:O4'	2.10	0.50
26:B1:7:ILE:HD13	26:B1:69:LYS:CG	2.41	0.50
26:B1:91:LYS:O	26:B1:93:GLU:N	2.44	0.50
28:B3:30:ARG:HG3	35:BA:1184:G:OP1	2.12	0.50
33:B8:61:LEU:HD13	33:B8:62:LEU:HG	1.93	0.50
35:BA:12:U:H1'	35:BA:2627:G:OP1	2.12	0.50
35:BA:209:C:C4'	35:BA:681:G:H4'	2.42	0.50
35:BA:646:A:H5'	35:BA:646:A:N3	2.26	0.50
35:BA:792:G:N7	35:BA:2440:C:H1'	2.26	0.50
35:BA:792:G:H2'	35:BA:2440:C:O2	2.11	0.50
35:BA:827:U:O2	35:BA:2246:G:H4'	2.11	0.50
35:BA:999:U:C6	35:BA:1154:G:C6	2.99	0.50
35:BA:1160:G:C2'	35:BA:1161:C:H5'	2.42	0.50
35:BA:1399:C:O5'	35:BA:1399:C:H6	1.94	0.50
35:BA:2101:G:H3'	35:BA:2102:U:H5''	1.93	0.50
35:BA:2264:C:C4	35:BA:2265:U:C4	3.00	0.50
35:BA:2564:A:N6	35:BA:2565:A:N6	2.59	0.50
36:BB:10:C:N4	36:BB:11:C:H41	2.10	0.50
36:BB:106:G:O2'	36:BB:107:G:H5'	2.10	0.50
37:BC:67:GLY:H	37:BC:188:ASN:HD21	1.60	0.50
37:BC:133:PRO:C	37:BC:135:GLY:H	2.19	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:175:VAL:CG1	37:BC:188:ASN:HB2	2.41	0.50
38:BD:21:PHE:CD1	38:BD:91:ARG:NH2	2.79	0.50
38:BD:33:LEU:HD21	38:BD:34:VAL:HG22	1.93	0.50
38:BD:35:LYS:N	38:BD:36:PRO:CD	2.59	0.50
38:BD:218:ARG:O	38:BD:219:PRO:C	2.54	0.50
38:BD:227:ASN:HD22	38:BD:228:PRO:HD2	1.76	0.50
38:BD:274:ARG:NH1	38:BD:274:ARG:HG3	2.25	0.50
39:BE:116:VAL:HG22	39:BE:122:PHE:CG	2.46	0.50
39:BE:202:LYS:N	39:BE:202:LYS:HD2	2.26	0.50
40:BF:65:TRP:HZ3	40:BF:73:ALA:O	1.94	0.50
40:BF:139:PHE:O	40:BF:140:LEU:C	2.55	0.50
41:BG:43:LEU:HB3	41:BG:45:GLU:HG2	1.92	0.50
42:BH:120:GLY:O	42:BH:121:ILE:HG12	2.11	0.50
45:BN:59:LYS:O	45:BN:60:ILE:C	2.54	0.50
46:BO:11:ALA:O	46:BO:98:VAL:HA	2.11	0.50
46:BO:71:ARG:NH2	46:BO:77:ILE:HB	2.26	0.50
49:BR:37:THR:HG23	49:BR:40:LYS:HE2	1.93	0.50
49:BR:99:LYS:H	49:BR:99:LYS:CD	2.21	0.50
52:BU:108:GLU:O	52:BU:110:VAL:N	2.44	0.50
57:BZ:24:LEU:HD21	57:BZ:86:VAL:HG23	1.93	0.50
1:AA:18:C:C1'	1:AA:1079:G:H21	2.25	0.50
1:AA:59:A:H5'	1:AA:60:A:H5''	1.91	0.50
1:AA:280:C:N4	17:AQ:91:ARG:NE	2.60	0.50
1:AA:405:U:H5''	1:AA:406:G:O4'	2.11	0.50
1:AA:604:G:C6	1:AA:605:U:N3	2.80	0.50
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.64	0.50
1:AA:1269:A:H61	1:AA:1312:G:C2'	2.24	0.50
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	1.92	0.50
3:AC:114:PRO:O	3:AC:117:ALA:HB3	2.10	0.50
4:AD:200:GLU:O	4:AD:201:GLN:C	2.53	0.50
6:AF:43:LEU:N	6:AF:43:LEU:CD2	2.75	0.50
7:AG:103:TRP:O	7:AG:104:LEU:C	2.54	0.50
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.73	0.50
12:AL:113:ARG:CB	12:AL:122:THR:HG21	2.41	0.50
15:AO:66:LEU:O	15:AO:67:LEU:C	2.52	0.50
24:AY:108:CYS:HA	24:AY:136:PRO:HG2	1.94	0.50
24:AY:113:ILE:HG22	24:AY:118:GLY:HA2	1.92	0.50
24:AY:282:ARG:O	24:AY:283:GLN:HB2	2.10	0.50
31:B6:29:ASN:O	31:B6:30:THR:C	2.53	0.50
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.77	0.50
34:B9:11:CYS:SG	34:B9:27:CYS:SG	3.09	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:16:VAL:CG1	35:BA:1032:A:H4'	2.40	0.50
35:BA:289:A:C6	35:BA:290:G:C6	2.99	0.50
35:BA:582:G:H2'	35:BA:583:G:C8	2.46	0.50
35:BA:591:C:C2	35:BA:592:G:C8	2.99	0.50
35:BA:673:C:C2	35:BA:808:G:N2	2.80	0.50
35:BA:812:C:H1'	35:BA:1250:G:C2	2.46	0.50
35:BA:888:C:H2'	35:BA:888:C:O2	2.11	0.50
35:BA:996:A:OP1	53:BV:10:LYS:HD2	2.11	0.50
35:BA:1060:U:H1'	35:BA:1061:U:O5'	2.12	0.50
35:BA:1214:A:H2'	35:BA:1215:G:O4'	2.11	0.50
35:BA:1296:G:OP1	35:BA:2709:G:H4'	2.11	0.50
35:BA:1453:U:H4'	35:BA:1455:G:OP1	2.12	0.50
35:BA:1605:C:H2'	35:BA:1606:G:C5'	2.41	0.50
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.41	0.50
35:BA:2787:C:C1'	39:BE:61:ARG:HD3	2.41	0.50
37:BC:3:HIS:CG	37:BC:7:TYR:CD2	2.99	0.50
37:BC:128:GLY:HA3	37:BC:137:LEU:HD23	1.90	0.50
37:BC:142:ALA:HB1	37:BC:162:GLU:CD	2.36	0.50
38:BD:123:ALA:HB3	38:BD:131:LEU:CD2	2.41	0.50
38:BD:144:ALA:H	38:BD:156:ALA:HB3	1.75	0.50
38:BD:214:TRP:C	38:BD:216:GLY:N	2.66	0.50
40:BF:5:ALA:HB1	40:BF:123:LEU:HD21	1.93	0.50
40:BF:195:ASP:HB3	40:BF:198:ALA:H	1.75	0.50
42:BH:118:PRO:HD2	42:BH:121:ILE:CB	2.41	0.50
44:BK:82:UNK:CB	44:BK:98:UNK:N	2.73	0.50
47:BP:83:VAL:CG1	47:BP:112:LEU:HD21	2.41	0.50
51:BT:45:PHE:CE1	51:BT:74:ARG:HG3	2.45	0.50
51:BT:89:VAL:CG1	51:BT:91:ARG:HE	2.24	0.50
53:BV:23:GLU:OE2	53:BV:89:GLN:NE2	2.45	0.50
54:BW:40:ASN:O	54:BW:41:LYS:HG2	2.11	0.50
56:BY:46:LYS:CG	56:BY:47:LYS:H	2.23	0.50
57:BZ:54:HIS:CA	57:BZ:98:MET:HE1	2.40	0.50
57:BZ:129:SER:HB3	57:BZ:131:ARG:HD3	1.93	0.50
57:BZ:151:HIS:HA	57:BZ:171:ILE:CG2	2.41	0.50
1:AA:49:U:C4	1:AA:364:A:C5	2.99	0.50
1:AA:571:U:OP1	1:AA:819:A:N3	2.44	0.50
1:AA:577:G:OP1	1:AA:577:G:H8	1.95	0.50
1:AA:744:C:O2'	1:AA:745:C:H5'	2.10	0.50
1:AA:858:G:H8	1:AA:858:G:O5'	1.95	0.50
1:AA:976:G:OP2	1:AA:1358:U:O2'	2.29	0.50
1:AA:980:C:H5	1:AA:981:U:C2	2.29	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1057:G:C6	1:AA:1058:G:C4	3.00	0.50
1:AA:1408:A:O2'	1:AA:1409:C:H5'	2.11	0.50
1:AA:1485:U:O2'	1:AA:1486:G:H5'	2.11	0.50
2:AB:102:LEU:O	2:AB:105:PHE:CB	2.58	0.50
3:AC:95:THR:O	3:AC:95:THR:HG22	2.11	0.50
7:AG:65:ALA:HB3	7:AG:124:LEU:HD23	1.91	0.50
9:AI:77:ILE:C	9:AI:79:LEU:N	2.66	0.50
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.80	0.50
12:AL:89:ARG:HD3	12:AL:90:VAL:H	1.74	0.50
13:AM:30:ALA:C	13:AM:32:GLU:H	2.19	0.50
14:AN:38:GLY:O	14:AN:39:LEU:HD23	2.11	0.50
19:AS:12:ASP:OD2	19:AS:14:HIS:CE1	2.64	0.50
19:AS:42:PRO:O	19:AS:43:GLU:CB	2.59	0.50
24:AY:10:VAL:HG12	24:AY:279:PRO:HG3	1.87	0.50
24:AY:162:LEU:O	24:AY:163:LYS:HB2	2.11	0.50
33:B8:6:THR:OG1	35:BA:243:U:OP1	2.26	0.50
35:BA:143:G:OP1	35:BA:1598:C:H1'	2.11	0.50
35:BA:272(H):C:O5'	35:BA:272(H):C:C6	2.63	0.50
35:BA:616:G:C5'	40:BF:103:LYS:NZ	2.74	0.50
35:BA:649:G:C2	35:BA:650:C:C2	3.00	0.50
35:BA:1060:U:O3'	44:BK:1:UNK:N	2.44	0.50
35:BA:1206:G:C2	35:BA:1207:C:C2	2.99	0.50
35:BA:1257:C:O2'	40:BF:83:PHE:HD1	1.93	0.50
35:BA:1259:G:H2'	35:BA:1260:G:H8	1.76	0.50
35:BA:1287:A:H2'	35:BA:1288:U:H5'	1.92	0.50
35:BA:1394:U:H5''	35:BA:1603:A:O3'	2.12	0.50
35:BA:1510:G:C2	35:BA:1511:C:C2	3.00	0.50
35:BA:2093:G:C6	35:BA:2225:A:C8	2.98	0.50
35:BA:2132:U:O5'	35:BA:2132:U:H6	1.94	0.50
35:BA:2154:G:N1	35:BA:2155:G:N7	2.60	0.50
35:BA:2180:U:H6	35:BA:2181:G:N7	2.09	0.50
35:BA:2280:G:C2	35:BA:2281:C:C6	2.99	0.50
35:BA:2315:G:H4'	41:BG:130:ASN:ND2	2.27	0.50
36:BB:114:C:H2'	36:BB:115:G:C8	2.46	0.50
37:BC:4:GLY:C	37:BC:6:ARG:N	2.69	0.50
37:BC:21:THR:O	37:BC:25:ALA:HB3	2.11	0.50
37:BC:25:ALA:HB2	37:BC:224:ILE:HG22	1.91	0.50
37:BC:51:PRO:HG2	37:BC:52:ARG:HD3	1.92	0.50
38:BD:164:GLN:C	38:BD:165:ILE:HD12	2.36	0.50
42:BH:83:TYR:HB3	42:BH:135:GLY:H	1.76	0.50
42:BH:92:ILE:HD11	42:BH:95:ARG:NH2	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:65:ARG:HB3	47:BP:68:GLN:NE2	2.26	0.50
48:BQ:26:TYR:O	48:BQ:102:VAL:HG21	2.11	0.50
48:BQ:76:LYS:HB3	48:BQ:91:GLU:CG	2.41	0.50
50:BS:34:HIS:CB	50:BS:36:TYR:HE1	2.24	0.50
50:BS:96:GLY:O	50:BS:98:VAL:N	2.39	0.50
51:BT:60:THR:HG22	51:BT:76:PHE:O	2.11	0.50
52:BU:92:ARG:CB	53:BV:11:GLN:CD	2.82	0.50
57:BZ:99:TYR:CD1	57:BZ:125:LEU:HA	2.46	0.50
1:AA:11:G:H2'	1:AA:12:U:O4'	2.11	0.50
1:AA:67:C:C6	1:AA:67:C:C3'	2.95	0.50
1:AA:575:G:OP1	1:AA:576:G:OP1	2.30	0.50
1:AA:764:C:H5''	15:AO:50:HIS:CD2	2.46	0.50
1:AA:773:G:C5'	38:BD:203:ASN:ND2	2.74	0.50
1:AA:828:A:C8	1:AA:828:A:H3'	2.45	0.50
1:AA:1106:G:H5''	3:AC:172:ARG:HG2	1.93	0.50
2:AB:97:TRP:CZ3	2:AB:172:ILE:HB	2.47	0.50
3:AC:122:GLU:O	3:AC:125:GLU:HB2	2.12	0.50
4:AD:98:GLU:C	4:AD:100:ARG:N	2.69	0.50
4:AD:121:VAL:O	4:AD:134:ASP:CB	2.59	0.50
5:AE:91:LEU:HD12	5:AE:120:THR:HB	1.93	0.50
8:AH:32:LYS:C	8:AH:36:LEU:HG	2.36	0.50
9:AI:18:PHE:HB2	9:AI:62:TYR:HB3	1.92	0.50
11:AK:58:PRO:O	11:AK:61:ALA:HB3	2.12	0.50
13:AM:64:TRP:O	13:AM:66:LEU:CD1	2.60	0.50
16:AP:3:LYS:HD2	16:AP:24:ALA:HB2	1.92	0.50
19:AS:4:SER:O	19:AS:5:LEU:O	2.29	0.50
24:AY:138:LEU:HD22	24:AY:253:PRO:CG	2.34	0.50
24:AY:155:LEU:HD12	24:AY:155:LEU:N	2.23	0.50
26:B1:44:PRO:HB2	26:B1:46:LEU:HD23	1.93	0.50
29:B4:40:HIS:HD2	29:B4:42:PHE:CE1	2.30	0.50
32:B7:23:ARG:C	32:B7:24:THR:CG2	2.85	0.50
35:BA:186:G:O2'	35:BA:187:G:H5'	2.12	0.50
35:BA:310:A:O2'	35:BA:311:A:H3'	2.11	0.50
35:BA:513:A:H2	35:BA:582:G:H4'	1.76	0.50
35:BA:869:G:C2'	35:BA:870:A:H5'	2.41	0.50
35:BA:969:U:O5'	35:BA:969:U:H6	1.94	0.50
35:BA:1456:G:C2	35:BA:2704:C:C2	3.00	0.50
35:BA:1887:C:H2'	35:BA:1888:G:C5'	2.42	0.50
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.42	0.50
35:BA:2044:C:C2	35:BA:2625:G:C2	2.99	0.50
35:BA:2163:C:C2'	35:BA:2164:C:H5'	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2167:U:H3	35:BA:2171:A:H62	1.60	0.50
35:BA:2244:U:O4'	35:BA:2434:A:C6	2.65	0.50
35:BA:2261:C:O2'	35:BA:2262:U:H5'	2.11	0.50
35:BA:2293:C:N4	35:BA:2294:C:N4	2.59	0.50
35:BA:2322:A:N6	35:BA:2323:G:C6	2.80	0.50
35:BA:2420:C:H2'	35:BA:2421:G:C8	2.47	0.50
35:BA:2506:U:OP2	35:BA:2576:G:N1	2.42	0.50
35:BA:2589:A:H2'	35:BA:2590:A:H8	1.76	0.50
35:BA:2689:U:H4'	35:BA:2690:C:H5'	1.92	0.50
35:BA:2692:C:C1'	35:BA:2847:U:O2'	2.59	0.50
35:BA:2881:C:C5'	49:BR:117:VAL:HG21	2.42	0.50
38:BD:80:ALA:HB2	38:BD:96:HIS:NE2	2.25	0.50
40:BF:123:LEU:HD11	40:BF:125:LEU:CD2	2.41	0.50
41:BG:83:ARG:CZ	41:BG:84:LYS:HZ2	2.25	0.50
42:BH:138:LYS:O	42:BH:141:VAL:HG22	2.11	0.50
45:BN:27:ALA:O	45:BN:28:THR:C	2.55	0.50
48:BQ:74:TYR:C	48:BQ:74:TYR:HD1	2.20	0.50
48:BQ:141:GLN:CD	57:BZ:72:ARG:HD3	2.34	0.50
49:BR:48:VAL:N	49:BR:51:LEU:HD13	2.26	0.50
50:BS:85:VAL:H	50:BS:106:ARG:CA	2.24	0.50
52:BU:18:LEU:O	52:BU:22:LYS:HG2	2.11	0.50
52:BU:74:LEU:HD21	52:BU:79:PHE:HA	1.92	0.50
52:BU:108:GLU:C	52:BU:110:VAL:N	2.69	0.50
53:BV:87:HIS:NE2	53:BV:89:GLN:HG2	2.27	0.50
54:BW:97:LYS:HE3	54:BW:99:ARG:NH1	2.27	0.50
55:BX:55:ASN:O	55:BX:80:ILE:HG12	2.12	0.50
57:BZ:19:ARG:NH1	57:BZ:84:GLU:HG2	2.26	0.50
57:BZ:71:VAL:HG12	57:BZ:73:GLN:H	1.76	0.50
57:BZ:162:GLU:O	57:BZ:163:LEU:O	2.29	0.50
1:AA:552:U:H2'	1:AA:553:A:H8	1.77	0.50
1:AA:759:A:C1'	12:AL:12:ARG:HH22	2.23	0.50
1:AA:782:A:C8	1:AA:783:C:C5	3.00	0.50
1:AA:1005:A:H5''	1:AA:1038:C:O2	2.11	0.50
1:AA:1014:A:H5''	19:AS:14:HIS:CG	2.46	0.50
1:AA:1230:C:OP1	22:AV:30:G:H5''	2.12	0.50
1:AA:1491:G:C3'	1:AA:1492:A:H8	2.22	0.50
1:AA:1493:A:HO2'	1:AA:1494:G:C1'	2.25	0.50
1:AA:1493:A:H2'	1:AA:1494:G:C8	2.46	0.50
2:AB:63:MET:HG3	2:AB:64:ARG:H	1.76	0.50
2:AB:75:LYS:HD3	2:AB:75:LYS:C	2.36	0.50
3:AC:39:ILE:O	3:AC:42:LEU:HB3	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:55:VAL:CG2	3:AC:68:VAL:HG13	2.41	0.50
4:AD:31:CYS:O	4:AD:32:ALA:CB	2.59	0.50
4:AD:148:VAL:HG23	4:AD:181:MET:HB3	1.93	0.50
4:AD:150:GLU:O	4:AD:151:LYS:C	2.55	0.50
8:AH:22:GLU:O	8:AH:63:LEU:HD23	2.12	0.50
9:AI:100:GLY:C	9:AI:102:LEU:N	2.68	0.50
11:AK:33:THR:HG22	11:AK:39:PRO:HG3	1.93	0.50
12:AL:123:LYS:O	12:AL:125:PRO:HD3	2.12	0.50
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.94	0.50
18:AR:37:VAL:CG2	18:AR:38:GLU:N	2.73	0.50
21:AU:18:TYR:CE1	21:AU:24:ARG:NH2	2.79	0.50
24:AY:76:GLN:HG2	24:AY:77:PHE:N	2.27	0.50
24:AY:146:ARG:HG2	35:BA:2656:U:H4'	1.94	0.50
24:AY:403:LEU:CD1	24:AY:461:ALA:HB2	2.34	0.50
25:B0:10:THR:HG21	35:BA:2277:G:OP2	2.11	0.50
25:B0:80:HIS:N	25:B0:80:HIS:CD2	2.79	0.50
27:B2:29:LYS:HA	27:B2:32:LEU:CB	2.41	0.50
30:B5:36:CYS:SG	30:B5:48:GLU:O	2.69	0.50
35:BA:40:C:H2'	35:BA:41:C:H6	1.77	0.50
35:BA:824:A:C5	35:BA:825:C:C5	2.99	0.50
35:BA:871:U:O3'	48:BQ:69:PHE:CE2	2.64	0.50
35:BA:879:G:C6	35:BA:898:C:N4	2.80	0.50
35:BA:949:C:O2'	35:BA:950:G:H5'	2.11	0.50
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.12	0.50
35:BA:1058:G:OP2	44:BK:1:UNK:HA	2.12	0.50
35:BA:1125:G:H3'	35:BA:1126:A:C8	2.45	0.50
35:BA:1264:G:O3'	35:BA:2615:U:H5'	2.11	0.50
35:BA:1310:G:H4'	35:BA:1611:C:H5''	1.94	0.50
35:BA:1794:U:O4'	35:BA:1900:A:C2	2.64	0.50
35:BA:1805:U:C2	35:BA:1806:C:C5	2.98	0.50
35:BA:1924:C:HO2'	35:BA:1925:C:H6	1.46	0.50
35:BA:1926:U:O2	35:BA:1926:U:C2'	2.58	0.50
35:BA:1991:U:H5''	35:BA:1991:U:H6	1.76	0.50
35:BA:2514:U:O4'	39:BE:151:TYR:CE2	2.64	0.50
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.12	0.50
35:BA:2762:G:C5'	35:BA:2762:G:H8	2.24	0.50
36:BB:101:G:C2'	36:BB:102:A:O4'	2.55	0.50
36:BB:117:G:N2	36:BB:118:G:H1'	2.26	0.50
37:BC:14:VAL:HG21	37:BC:32:LEU:HD11	1.94	0.50
37:BC:180:PHE:CB	37:BC:184:LYS:HB3	2.28	0.50
38:BD:155:LEU:O	38:BD:156:ALA:HB3	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:9:VAL:CG1	39:BE:25:VAL:CB	2.89	0.50
40:BF:60:SER:OG	40:BF:61:GLY:N	2.44	0.50
40:BF:66:PRO:C	40:BF:68:LYS:N	2.69	0.50
41:BG:124:SER:HB2	41:BG:131:TYR:CZ	2.47	0.50
42:BH:85:LYS:HZ2	42:BH:87:LEU:CD1	2.17	0.50
46:BO:4:PRO:HD3	46:BO:24:VAL:CG1	2.41	0.50
46:BO:31:LYS:C	46:BO:32:TYR:CD1	2.89	0.50
50:BS:38:GLN:C	50:BS:39:ILE:HG13	2.36	0.50
50:BS:73:LEU:HD23	50:BS:73:LEU:C	2.37	0.50
52:BU:85:LYS:C	52:BU:87:GLY:H	2.19	0.50
54:BW:36:LEU:CD1	54:BW:47:VAL:HG12	2.41	0.50
56:BY:46:LYS:HB3	56:BY:62:GLU:HG3	1.94	0.50
56:BY:78:ALA:HB2	56:BY:81:LYS:NZ	2.27	0.50
1:AA:455:C:O2	1:AA:477:A:C2	2.64	0.50
1:AA:572:A:P	1:AA:573:A:OP1	2.70	0.50
1:AA:1003:G:C2	1:AA:1039:C:N3	2.80	0.50
1:AA:1345:U:H5''	9:AI:120:ARG:NH1	2.27	0.50
1:AA:1406:U:C2'	1:AA:1407:C:H5'	2.42	0.50
2:AB:8:LYS:C	2:AB:9:GLU:OE1	2.55	0.50
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.93	0.50
2:AB:97:TRP:HZ3	2:AB:172:ILE:CB	2.24	0.50
2:AB:224:GLN:C	2:AB:226:ARG:N	2.68	0.50
4:AD:3:ARG:O	4:AD:5:ILE:HG13	2.12	0.50
5:AE:12:LEU:CD2	5:AE:13:ILE:O	2.60	0.50
7:AG:24:THR:HA	7:AG:27:ILE:CB	2.39	0.50
8:AH:111:ILE:HG22	8:AH:112:LEU:N	2.26	0.50
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.26	0.50
11:AK:63:LEU:HA	11:AK:66:LEU:HG	1.94	0.50
11:AK:67:ASP:O	11:AK:68:ALA:C	2.55	0.50
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.12	0.50
12:AL:90:VAL:O	12:AL:91:LYS:C	2.54	0.50
15:AO:5:LYS:HA	15:AO:8:LYS:CG	2.41	0.50
16:AP:1:MET:O	16:AP:24:ALA:HB2	2.12	0.50
17:AQ:57:VAL:HG21	17:AQ:73:VAL:CG1	2.41	0.50
19:AS:6:LYS:N	19:AS:6:LYS:CD	2.64	0.50
19:AS:72:GLY:C	19:AS:74:PHE:H	2.20	0.50
20:AT:71:THR:HG22	20:AT:72:LEU:N	2.27	0.50
24:AY:63:GLU:OE2	24:AY:70:ILE:HB	2.11	0.50
24:AY:93:GLU:C	24:AY:94:ASP:CG	2.76	0.50
24:AY:135:THR:O	24:AY:136:PRO:O	2.30	0.50
24:AY:315:VAL:HG22	24:AY:367:LEU:O	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:331:LEU:HD22	24:AY:379:PHE:CG	2.31	0.50
24:AY:387:PHE:HD1	24:AY:387:PHE:N	2.05	0.50
25:B0:48:GLY:HA3	25:B0:80:HIS:HA	1.94	0.50
26:B1:25:LYS:HB2	35:BA:388:G:OP1	2.12	0.50
28:B3:45:GLY:C	28:B3:47:VAL:H	2.19	0.50
30:B5:34:PRO:O	30:B5:35:GLU:HG2	2.11	0.50
35:BA:13:A:C2	35:BA:526:A:N7	2.80	0.50
35:BA:225:A:H2'	35:BA:226:G:H5'	1.94	0.50
35:BA:331:A:H1'	35:BA:332:A:OP1	2.12	0.50
35:BA:524:U:O2'	35:BA:555:U:H4'	2.12	0.50
35:BA:693:C:H4'	35:BA:1353:A:O2'	2.11	0.50
35:BA:761:A:O5'	35:BA:761:A:C8	2.64	0.50
35:BA:954:G:OP1	48:BQ:15:GLY:N	2.44	0.50
35:BA:1247:A:O2'	35:BA:1248:G:H5''	2.12	0.50
35:BA:1484:G:C2	35:BA:1506:C:N3	2.79	0.50
35:BA:1719:G:C6	35:BA:1720:U:C4	2.99	0.50
35:BA:1826:G:H4'	38:BD:242:ARG:NE	2.26	0.50
35:BA:1926:U:H3'	35:BA:1927:A:C5'	2.42	0.50
35:BA:2721:A:H2'	35:BA:2722:G:O4'	2.12	0.50
35:BA:2835:A:H62	35:BA:2878:U:H3'	1.75	0.50
37:BC:75:LEU:O	37:BC:76:ALA:HB2	2.11	0.50
37:BC:114:VAL:HG21	37:BC:149:ILE:HD11	1.93	0.50
38:BD:9:TYR:HH	38:BD:13:ARG:CZ	2.23	0.50
38:BD:24:ILE:CG2	38:BD:83:GLU:CA	2.88	0.50
38:BD:109:ASP:OD1	38:BD:109:ASP:C	2.55	0.50
38:BD:111:LEU:HD22	38:BD:127:VAL:HB	1.92	0.50
40:BF:33:LEU:HD22	40:BF:33:LEU:N	2.27	0.50
40:BF:157:VAL:O	40:BF:158:THR:HB	2.12	0.50
40:BF:179:GLU:C	40:BF:181:LEU:N	2.69	0.50
42:BH:29:PRO:HG2	42:BH:30:LYS:H	1.76	0.50
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.27	0.50
42:BH:67:LEU:O	42:BH:71:LEU:N	2.39	0.50
42:BH:94:TYR:CG	42:BH:107:VAL:HB	2.47	0.50
46:BO:71:ARG:HH12	51:BT:74:ARG:NH2	2.09	0.50
47:BP:47:ASP:HB2	47:BP:51:PHE:CD2	2.43	0.50
47:BP:64:LYS:O	47:BP:65:ARG:C	2.54	0.50
47:BP:115:LEU:N	47:BP:115:LEU:HD23	2.26	0.50
48:BQ:29:PHE:HB2	48:BQ:105:GLU:OE2	2.12	0.50
50:BS:101:LEU:O	50:BS:102:ALA:O	2.29	0.50
51:BT:48:ILE:N	51:BT:48:ILE:CD1	2.72	0.50
51:BT:72:VAL:O	51:BT:73:GLU:CG	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:80:SER:HB3	51:BT:81:PRO:CD	2.33	0.50
52:BU:55:ARG:HH11	52:BU:55:ARG:HG3	1.76	0.50
56:BY:10:GLY:CA	56:BY:27:VAL:HG13	2.42	0.50
1:AA:279:A:C2'	17:AQ:95:TYR:HE1	2.25	0.50
1:AA:280:C:N4	17:AQ:91:ARG:NH2	2.59	0.50
1:AA:499:A:O3'	1:AA:500:G:C8	2.59	0.50
1:AA:500:G:H8	1:AA:500:G:P	2.35	0.50
1:AA:627:G:OP1	16:AP:38:TYR:HE2	1.94	0.50
1:AA:658:G:O4'	15:AO:22:THR:HB	2.11	0.50
1:AA:719:C:H3'	1:AA:720:C:H6	1.74	0.50
1:AA:827:U:H2'	1:AA:827:U:O2	2.11	0.50
1:AA:961:U:OP2	1:AA:1223:C:O4'	2.29	0.50
1:AA:1052:U:O2	1:AA:1207:G:N2	2.45	0.50
1:AA:1308:U:C5	13:AM:99:ARG:NH1	2.80	0.50
1:AA:1374:A:C2	1:AA:1375:A:C8	3.00	0.50
2:AB:58:ILE:O	2:AB:62:ALA:N	2.29	0.50
2:AB:171:ALA:HA	2:AB:174:VAL:HG21	1.93	0.50
2:AB:219:VAL:CA	2:AB:222:ILE:HG12	2.42	0.50
5:AE:96:PRO:HA	5:AE:117:ASP:CG	2.37	0.50
9:AI:87:GLN:HG2	9:AI:88:TYR:CD1	2.47	0.50
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.93	0.50
12:AL:31:PRO:O	12:AL:32:PHE:CG	2.65	0.50
12:AL:75:HIS:CG	12:AL:76:ASN:N	2.77	0.50
12:AL:82:VAL:HG12	12:AL:83:VAL:N	2.27	0.50
12:AL:111:LYS:HG2	12:AL:112:ASP:OD1	2.12	0.50
13:AM:70:LEU:O	13:AM:73:GLU:N	2.45	0.50
13:AM:97:PRO:HB2	13:AM:101:GLN:NE2	2.27	0.50
15:AO:80:ALA:O	15:AO:83:GLU:N	2.45	0.50
15:AO:85:LEU:HD23	15:AO:85:LEU:H	1.74	0.50
18:AR:76:LEU:O	18:AR:78:LEU:N	2.45	0.50
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.12	0.50
22:AV:33:U:H5'	22:AV:33:U:C6	2.43	0.50
22:AV:53:G:H22	22:AV:61:C:N4	2.10	0.50
22:AV:55:U:N3	22:AV:58:A:OP2	2.45	0.50
22:AV:64:G:H2'	22:AV:65:C:C6	2.47	0.50
24:AY:315:VAL:CG1	24:AY:316:ALA:N	2.73	0.50
24:AY:412:LEU:HD23	24:AY:436:LEU:CD1	2.39	0.50
24:AY:480:LYS:HE2	24:AY:480:LYS:HA	1.94	0.50
25:B0:50:ASN:O	25:B0:62:LEU:CD2	2.60	0.50
27:B2:37:PHE:O	27:B2:40:SER:N	2.35	0.50
28:B3:6:VAL:CG1	28:B3:56:VAL:HA	2.38	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:31:LEU:C	28:B3:33:GLN:H	2.20	0.50
31:B6:25:LYS:HD2	35:BA:2285:C:H42	1.77	0.50
31:B6:28:ARG:O	31:B6:32:ASN:HB3	2.12	0.50
32:B7:4:THR:CG2	35:BA:789:A:H5'	2.41	0.50
32:B7:40:TRP:CH2	35:BA:459:U:C4'	2.88	0.50
33:B8:13:ARG:NH1	47:BP:59:LEU:HD23	2.23	0.50
34:B9:31:LYS:O	34:B9:32:HIS:HD2	1.95	0.50
35:BA:53:A:H8	35:BA:53:A:O5'	1.95	0.50
35:BA:88:G:N3	35:BA:88:G:H2'	2.27	0.50
35:BA:94(A):G:C2'	35:BA:95:G:C5'	2.79	0.50
35:BA:376:C:H2'	35:BA:377:C:C6	2.46	0.50
35:BA:869:G:H1'	48:BQ:8:LYS:HD2	1.94	0.50
35:BA:886:C:O2'	35:BA:887:A:OP1	2.30	0.50
35:BA:938:G:H2'	35:BA:939:G:H8	1.77	0.50
35:BA:962:G:N1	35:BA:963:U:C2	2.80	0.50
35:BA:991:C:OP2	35:BA:1186:G:OP2	2.29	0.50
35:BA:994:C:O2'	35:BA:996:A:OP1	2.30	0.50
35:BA:1048:A:OP2	35:BA:1048:A:C8	2.64	0.50
35:BA:1244:G:H2'	35:BA:1245:G:H8	1.77	0.50
35:BA:1244:G:C4'	47:BP:11:GLY:HA2	2.42	0.50
35:BA:1267:U:C5	35:BA:2012:G:C2	2.99	0.50
35:BA:1712:C:N3	35:BA:1747:G:N2	2.59	0.50
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.12	0.50
35:BA:2498:C:C3'	35:BA:2499:C:H5''	2.42	0.50
35:BA:2687:U:C2'	35:BA:2688:U:H5'	2.42	0.50
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.46	0.50
36:BB:81:G:N1	36:BB:97:G:N1	2.60	0.50
37:BC:120:MET:HE1	37:BC:138:PRO:CB	2.41	0.50
38:BD:63:ARG:C	38:BD:64:ILE:O	2.55	0.50
38:BD:92:ILE:CG2	38:BD:106:ILE:HG12	2.42	0.50
38:BD:158:ALA:CB	38:BD:161:THR:OG1	2.56	0.50
39:BE:33:VAL:HG11	39:BE:89:ASP:N	2.26	0.50
39:BE:70:ALA:O	39:BE:72:VAL:N	2.40	0.50
39:BE:105:THR:HG23	39:BE:165:VAL:O	2.12	0.50
39:BE:111:ARG:O	39:BE:112:GLY:O	2.30	0.50
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.47	0.50
40:BF:107:LYS:O	40:BF:206:ILE:HG23	2.11	0.50
40:BF:192:LEU:C	40:BF:192:LEU:HD23	2.37	0.50
41:BG:55:LYS:O	41:BG:56:ALA:C	2.54	0.50
43:BJ:61:UNK:O	43:BJ:65:UNK:CB	2.59	0.50
48:BQ:24:GLY:O	48:BQ:26:TYR:N	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:38:GLU:CD	48:BQ:127:ILE:HB	2.36	0.50
48:BQ:58:PHE:O	48:BQ:58:PHE:CD1	2.63	0.50
52:BU:28:ARG:HD3	52:BU:38:THR:HG21	1.92	0.50
53:BV:4:ILE:HB	53:BV:39:LEU:O	2.12	0.50
57:BZ:110:GLY:O	57:BZ:115:GLY:CA	2.59	0.50
57:BZ:147:GLY:C	57:BZ:148:ASP:O	2.54	0.50
1:AA:217:C:H5''	1:AA:217:C:H6	1.76	0.50
1:AA:277:C:OP1	17:AQ:41:LYS:HE3	2.12	0.50
1:AA:624:C:H4'	16:AP:11:SER:HB3	1.93	0.50
1:AA:1114:C:O2'	1:AA:1115:C:H5'	2.12	0.50
1:AA:1151:A:HO2'	1:AA:1152:A:H8	1.57	0.50
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.47	0.50
3:AC:40:ARG:NE	14:AN:52:GLN:OE1	2.44	0.50
3:AC:77:ILE:HG23	3:AC:84:ILE:HG21	1.94	0.50
4:AD:15:GLU:HG2	4:AD:63:LYS:HG3	1.94	0.50
4:AD:26:CYS:HA	4:AD:31:CYS:CB	2.42	0.50
4:AD:39:PRO:HB3	4:AD:40:PRO:HD2	1.94	0.50
6:AF:52:ILE:HG21	6:AF:87:ARG:HH12	1.77	0.50
9:AI:4:TYR:CD2	9:AI:85:LEU:HA	2.38	0.50
10:AJ:9:ARG:HA	10:AJ:68:HIS:O	2.11	0.50
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.12	0.50
10:AJ:43:ARG:CB	10:AJ:67:THR:HG23	2.34	0.50
11:AK:71:LYS:O	11:AK:75:TYR:HD1	1.95	0.50
11:AK:98:LEU:O	11:AK:101:SER:OG	2.28	0.50
11:AK:108:ILE:HD12	11:AK:108:ILE:H	1.76	0.50
12:AL:105:TYR:C	12:AL:107:ALA:H	2.20	0.50
14:AN:31:ARG:C	14:AN:32:SER:OG	2.54	0.50
15:AO:11:VAL:O	15:AO:14:GLU:N	2.44	0.50
15:AO:64:ARG:HG2	15:AO:65:ARG:N	2.23	0.50
19:AS:51:VAL:O	19:AS:58:VAL:HG22	2.12	0.50
22:AV:33:U:O2	22:AV:35:A:C8	2.65	0.50
24:AY:170:THR:CA	24:AY:183:TYR:O	2.56	0.50
24:AY:200:THR:O	24:AY:201:ILE:C	2.55	0.50
24:AY:425:VAL:HG13	24:AY:445:GLN:HG3	1.93	0.50
26:B1:13:ILE:HG12	26:B1:14:VAL:O	2.12	0.50
32:B7:34:ARG:NE	35:BA:467:G:OP2	2.45	0.50
33:B8:13:ARG:NH1	47:BP:61:ARG:HD2	2.23	0.50
35:BA:244:A:N1	35:BA:255:A:H1'	2.27	0.50
35:BA:491:G:C2	35:BA:492:A:H1'	2.46	0.50
35:BA:534:U:O2'	52:BU:49:HIS:CD2	2.61	0.50
35:BA:565:C:C4'	35:BA:1253:A:N1	2.65	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:627:A:N6	35:BA:636:G:H2'	2.27	0.50
35:BA:679:C:O2'	35:BA:680:G:H5'	2.11	0.50
35:BA:803:U:H2'	35:BA:804:A:O4'	2.11	0.50
35:BA:952:G:C4	35:BA:966:G:C2	2.99	0.50
35:BA:1099:G:H2'	35:BA:1100:C:C6	2.47	0.50
35:BA:1141:U:H5	45:BN:66:LYS:NZ	2.10	0.50
35:BA:1240:U:H2'	35:BA:1241:A:OP2	2.11	0.50
35:BA:1625:C:C2'	35:BA:1626:G:C5'	2.89	0.50
35:BA:1820:U:N1	38:BD:202:LYS:HD3	2.27	0.50
35:BA:1835:G:C2	35:BA:1836:C:C5	3.00	0.50
35:BA:2000:G:C2	35:BA:2001:A:N7	2.80	0.50
35:BA:2559:C:H2'	35:BA:2560:C:C6	2.43	0.50
35:BA:2861:G:C2	35:BA:2862:G:C8	3.00	0.50
36:BB:49:C:H2'	36:BB:50:G:H8	1.77	0.50
36:BB:115:G:H2'	36:BB:116:G:C8	2.36	0.50
37:BC:22:ILE:HD13	37:BC:189:ILE:HG22	1.94	0.50
37:BC:173:ALA:HB3	37:BC:192:PHE:CE1	2.47	0.50
38:BD:183:ARG:HG3	38:BD:270:ILE:HA	1.93	0.50
39:BE:102:VAL:HG23	39:BE:104:VAL:HG23	1.94	0.50
39:BE:175:VAL:HG23	39:BE:182:LEU:CD1	2.42	0.50
40:BF:65:TRP:HB2	40:BF:66:PRO:HD2	1.92	0.50
42:BH:151:ILE:H	42:BH:151:ILE:CD1	2.09	0.50
46:BO:12:ASP:N	46:BO:12:ASP:OD1	2.44	0.50
46:BO:12:ASP:OD2	46:BO:85:VAL:HG13	2.11	0.50
46:BO:76:ALA:HB3	51:BT:75:ILE:HB	1.93	0.50
47:BP:107:LYS:C	47:BP:109:GLY:N	2.70	0.50
47:BP:138:LEU:HD21	47:BP:143:GLY:O	2.12	0.50
49:BR:96:ARG:NH1	49:BR:96:ARG:CB	2.75	0.50
51:BT:41:ARG:NH1	51:BT:41:ARG:HG2	2.27	0.50
53:BV:5:VAL:HG21	53:BV:35:LEU:HG	1.93	0.50
55:BX:39:ILE:CG2	55:BX:54:VAL:HG11	2.40	0.50
57:BZ:101:PRO:HG2	57:BZ:135:GLU:O	2.11	0.50
57:BZ:128:VAL:HG13	57:BZ:133:ILE:HD13	1.93	0.50
1:AA:253:U:N3	1:AA:274:A:C2	2.80	0.49
1:AA:404:U:H5'	4:AD:122:ARG:NE	2.26	0.49
1:AA:781:A:C8	1:AA:801:U:O4	2.65	0.49
1:AA:970:C:C2	1:AA:1231:G:H1'	2.46	0.49
1:AA:1151:A:H1'	1:AA:1152:A:H8	1.75	0.49
2:AB:9:GLU:HA	2:AB:12:GLU:HB2	1.93	0.49
2:AB:33:TYR:CD1	2:AB:43:ASP:OD1	2.64	0.49
2:AB:69:LEU:H	2:AB:162:ILE:HA	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:221:LEU:O	2:AB:225:ALA:N	2.45	0.49
3:AC:179:ARG:CD	3:AC:207:VAL:HA	2.42	0.49
5:AE:115:VAL:HG13	5:AE:117:ASP:H	1.77	0.49
8:AH:14:ARG:HE	8:AH:83:ILE:CG2	2.21	0.49
9:AI:9:ARG:CG	9:AI:14:VAL:HG22	2.42	0.49
9:AI:17:VAL:HG21	9:AI:80:GLY:HA3	1.94	0.49
9:AI:55:ALA:HB1	9:AI:59:PHE:CD2	2.46	0.49
15:AO:4:THR:HG22	15:AO:7:GLU:H	1.76	0.49
16:AP:75:ARG:N	16:AP:80:PHE:HE1	2.10	0.49
18:AR:34:TYR:HD1	18:AR:34:TYR:O	1.95	0.49
19:AS:20:LEU:O	19:AS:23:ASN:HB3	2.11	0.49
22:AV:61:C:C5'	22:AV:62:C:OP2	2.60	0.49
24:AY:104:THR:O	24:AY:104:THR:HG22	2.11	0.49
24:AY:187:LYS:O	24:AY:188:ASP:C	2.54	0.49
24:AY:231:LEU:HD12	24:AY:231:LEU:C	2.37	0.49
24:AY:332:ARG:CB	24:AY:339:ASP:OD1	2.59	0.49
33:B8:13:ARG:NH1	47:BP:61:ARG:O	2.45	0.49
35:BA:176:G:C5	35:BA:177:G:C6	3.00	0.49
35:BA:189:G:H2'	35:BA:205:G:H22	1.76	0.49
35:BA:444:C:H2'	35:BA:445:C:C6	2.47	0.49
35:BA:539:G:C6	35:BA:540:C:C4	3.00	0.49
35:BA:752:A:N7	35:BA:1781:C:O2	2.45	0.49
35:BA:941:A:H4'	47:BP:35:HIS:CE1	2.47	0.49
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.21	0.49
35:BA:1286:A:H2	35:BA:1328:G:HO2'	1.59	0.49
35:BA:1379:A:H5'	35:BA:1380:G:N7	2.27	0.49
35:BA:1442:G:H5'	35:BA:1628:G:H5''	1.94	0.49
35:BA:1657:C:O5'	35:BA:1657:C:H6	1.94	0.49
35:BA:2114:A:H2'	35:BA:2167:U:O2'	2.12	0.49
35:BA:2393:A:N3	35:BA:2394:C:C6	2.80	0.49
35:BA:2443:C:H2'	35:BA:2444:G:C5'	2.42	0.49
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.12	0.49
35:BA:2579:C:O2'	35:BA:2580:U:H5'	2.12	0.49
35:BA:2796:U:C2'	35:BA:2799:C:H5'	2.41	0.49
36:BB:54:G:C2	36:BB:55:U:C6	2.99	0.49
36:BB:77:U:C5	36:BB:99:G:N2	2.80	0.49
38:BD:72:LYS:HD3	38:BD:97:TYR:CD2	2.47	0.49
38:BD:158:ALA:O	38:BD:161:THR:CB	2.60	0.49
39:BE:24:THR:HG21	39:BE:188:VAL:CG1	2.33	0.49
39:BE:95:ILE:N	39:BE:95:ILE:HD13	2.26	0.49
40:BF:110:LEU:HD23	40:BF:183:VAL:HG13	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:127:GLU:CB	40:BF:196:LEU:HD12	2.41	0.49
42:BH:37:VAL:CG2	42:BH:72:ILE:HG12	2.43	0.49
50:BS:58:LEU:HG	50:BS:59:LYS:N	2.26	0.49
50:BS:106:ARG:NH1	50:BS:109:GLY:N	2.56	0.49
54:BW:70:TYR:O	54:BW:107:LEU:CB	2.58	0.49
56:BY:38:ILE:HD13	56:BY:66:PRO:HG3	1.94	0.49
1:AA:142:G:O2'	1:AA:196:A:N1	2.31	0.49
1:AA:244:U:O4	1:AA:893:C:N3	2.45	0.49
1:AA:502:G:C5	1:AA:503:C:C5	3.00	0.49
1:AA:748:C:O2'	1:AA:749:C:O5'	2.30	0.49
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.12	0.49
2:AB:21:ARG:HD2	2:AB:39:ILE:CG1	2.42	0.49
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.65	0.49
2:AB:112:VAL:O	2:AB:115:LEU:N	2.45	0.49
4:AD:63:LYS:O	4:AD:67:ILE:HG13	2.11	0.49
4:AD:98:GLU:HA	4:AD:103:ASN:HD21	1.75	0.49
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.75	0.49
13:AM:23:TYR:CE1	13:AM:70:LEU:HD22	2.46	0.49
13:AM:89:GLY:C	13:AM:90:LEU:O	2.53	0.49
16:AP:53:VAL:HG12	16:AP:78:GLY:O	2.12	0.49
16:AP:70:ALA:O	16:AP:74:LEU:HG	2.12	0.49
18:AR:47:THR:C	18:AR:83:GLU:HG2	2.37	0.49
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.94	0.49
19:AS:15:LEU:HD13	19:AS:19:VAL:HG21	1.94	0.49
19:AS:47:HIS:N	19:AS:62:ILE:CG2	2.76	0.49
22:AV:39:C:C2'	22:AV:40:C:H5'	2.39	0.49
22:AV:51:C:O2	22:AV:63:G:N1	2.44	0.49
24:AY:182:VAL:CG1	24:AY:183:TYR:N	2.51	0.49
25:B0:42:GLY:HA3	35:BA:2331:G:C1'	2.42	0.49
27:B2:3:LEU:HD23	27:B2:3:LEU:C	2.38	0.49
28:B3:13:ILE:HG22	28:B3:13:ILE:O	2.11	0.49
31:B6:35:GLU:OE1	31:B6:35:GLU:CA	2.53	0.49
32:B7:19:ARG:HH21	32:B7:23:ARG:HH22	1.61	0.49
33:B8:35:GLN:O	33:B8:35:GLN:CD	2.55	0.49
33:B8:46:ARG:NH1	33:B8:46:ARG:HG2	2.26	0.49
35:BA:572:A:OP2	53:BV:78:LYS:NZ	2.44	0.49
35:BA:746:A:C2'	35:BA:2612:C:H5''	2.42	0.49
35:BA:1052:C:O2'	35:BA:1053:C:P	2.70	0.49
35:BA:1188:U:C4'	53:BV:79:VAL:HG12	2.42	0.49
35:BA:1666:G:O3'	46:BO:6:THR:HG23	2.11	0.49
35:BA:1779:U:C6	35:BA:1783:A:N7	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2010:G:C6	35:BA:2011:U:C5	3.00	0.49
35:BA:2126:A:O2'	35:BA:2127:G:P	2.70	0.49
35:BA:2128:C:O2'	35:BA:2129:C:C5'	2.59	0.49
35:BA:2134:A:H1'	35:BA:2159:G:N3	2.27	0.49
35:BA:2173:A:N3	35:BA:2173:A:H2'	2.27	0.49
35:BA:2326:C:O2	35:BA:2388:A:N6	2.45	0.49
35:BA:2496:C:O5'	35:BA:2496:C:H6	1.95	0.49
35:BA:2594:C:O2'	35:BA:2595:G:H5'	2.12	0.49
36:BB:86:G:N2	36:BB:92:C:C2	2.81	0.49
37:BC:7:TYR:O	37:BC:10:LEU:CD2	2.60	0.49
39:BE:172:VAL:O	39:BE:174:ASP:N	2.45	0.49
41:BG:10:LYS:O	41:BG:14:GLU:HB2	2.12	0.49
41:BG:34:LEU:HA	41:BG:161:THR:CG2	2.28	0.49
42:BH:98:LEU:HB2	42:BH:103:LEU:HD13	1.94	0.49
43:BJ:95:UNK:O	43:BJ:99:UNK:CB	2.60	0.49
48:BQ:48:GLU:HG3	48:BQ:51:ARG:HD3	1.93	0.49
50:BS:73:LEU:O	50:BS:74:ALA:C	2.55	0.49
1:AA:321:A:C2	1:AA:333:G:C2	3.00	0.49
1:AA:547:A:O2'	1:AA:548:G:OP2	2.28	0.49
1:AA:719:C:O2	18:AR:50:ILE:N	2.45	0.49
1:AA:719:C:H2'	18:AR:50:ILE:HB	1.94	0.49
1:AA:867:G:H2'	1:AA:868:C:C6	2.47	0.49
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.31	0.49
1:AA:951:G:C2	1:AA:1231:G:C2	3.01	0.49
1:AA:1059:C:O2'	1:AA:1060:C:H5'	2.12	0.49
1:AA:1307:U:N3	1:AA:1308:U:C4	2.80	0.49
2:AB:46:LYS:O	2:AB:49:GLU:HB2	2.12	0.49
2:AB:97:TRP:CZ2	2:AB:176:GLU:OE2	2.65	0.49
2:AB:146:GLN:O	2:AB:149:LEU:N	2.33	0.49
2:AB:161:ALA:HB1	2:AB:185:ILE:HD11	1.94	0.49
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.27	0.49
8:AH:9:MET:O	8:AH:11:THR:N	2.46	0.49
12:AL:90:VAL:HG11	12:AL:93:LEU:CD1	2.41	0.49
13:AM:74:VAL:O	13:AM:76:ALA:N	2.45	0.49
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.42	0.49
20:AT:23:ARG:HH11	20:AT:23:ARG:HG2	1.76	0.49
24:AY:14:ARG:O	24:AY:85:ASN:N	2.42	0.49
24:AY:131:ARG:NH2	24:AY:162:LEU:O	2.45	0.49
24:AY:136:PRO:CB	24:AY:246:PHE:CZ	2.96	0.49
24:AY:323:GLY:O	24:AY:324:LYS:C	2.54	0.49
25:B0:4:LYS:HE3	48:BQ:82:ARG:HD2	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:9:GLN:HG2	27:B2:56:GLN:HE22	1.76	0.49
29:B4:5:ILE:O	29:B4:5:ILE:CG1	2.60	0.49
29:B4:9:LEU:HD13	29:B4:10:VAL:N	2.22	0.49
29:B4:11:PRO:HA	29:B4:25:TYR:CD2	2.47	0.49
29:B4:40:HIS:HD2	29:B4:42:PHE:HD1	1.60	0.49
30:B5:30:LEU:HD13	30:B5:39:MET:HB2	1.94	0.49
33:B8:46:ARG:HH11	33:B8:46:ARG:HG2	1.77	0.49
35:BA:408:G:O2'	35:BA:409:C:H5'	2.12	0.49
35:BA:413:C:H2'	35:BA:414:C:C6	2.47	0.49
35:BA:444:C:OP2	52:BU:2:PRO:HD3	2.12	0.49
35:BA:495:G:C6	35:BA:496:G:C5	3.01	0.49
35:BA:660:G:C2	35:BA:661:C:C2	3.00	0.49
35:BA:783:A:C8	35:BA:783:A:C3'	2.95	0.49
35:BA:1187:G:H5''	53:BV:81:TYR:HE1	1.73	0.49
35:BA:1242:A:H3'	35:BA:1243:G:H8	1.77	0.49
35:BA:1307:A:H2'	35:BA:1307:A:N3	2.27	0.49
35:BA:1387:C:C2	35:BA:1388:G:C8	3.00	0.49
35:BA:1433:U:H2'	35:BA:1433:U:O2	2.11	0.49
35:BA:1670:C:OP2	35:BA:1671:U:C5	2.65	0.49
35:BA:1799:G:H4'	35:BA:1800:C:H6	1.76	0.49
35:BA:2455:G:N1	35:BA:2498:C:N4	2.61	0.49
35:BA:2649:U:C2	35:BA:2672:G:N2	2.80	0.49
35:BA:2651:C:O2'	35:BA:2652:C:H5'	2.11	0.49
35:BA:2700:C:C2	35:BA:2701:C:C5	3.00	0.49
35:BA:2801(A):A:C5'	35:BA:2802:G:H5'	2.41	0.49
35:BA:2835:A:C2	35:BA:2879:C:C4	3.00	0.49
37:BC:30:LYS:HD3	37:BC:185:LEU:HD12	1.92	0.49
38:BD:53:PHE:CE2	38:BD:220:HIS:ND1	2.80	0.49
38:BD:75:ILE:O	38:BD:118:VAL:HG23	2.11	0.49
38:BD:158:ALA:O	38:BD:161:THR:HB	2.12	0.49
38:BD:268:ARG:H	38:BD:270:ILE:HD11	1.75	0.49
39:BE:81:ILE:C	39:BE:82:ARG:O	2.52	0.49
42:BH:92:ILE:CD1	42:BH:95:ARG:HH21	2.26	0.49
42:BH:132:ARG:C	42:BH:133:VAL:HG23	2.37	0.49
45:BN:62:VAL:HG11	45:BN:67:LEU:HG	1.94	0.49
46:BO:10:VAL:HG21	46:BO:16:ALA:O	2.12	0.49
46:BO:76:ALA:CB	51:BT:75:ILE:HD13	2.42	0.49
46:BO:87:ILE:HA	46:BO:92:GLU:O	2.12	0.49
47:BP:17:LYS:O	47:BP:17:LYS:HG2	2.12	0.49
48:BQ:2:LEU:O	48:BQ:3:MET:HB3	2.11	0.49
49:BR:114:VAL:O	49:BR:114:VAL:HG23	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:18:ILE:H	50:BS:18:ILE:HD12	1.76	0.49
51:BT:61:PHE:CZ	51:BT:76:PHE:HB2	2.47	0.49
51:BT:67:SER:O	51:BT:68:TYR:O	2.30	0.49
53:BV:39:LEU:HD11	53:BV:51:VAL:HA	1.93	0.49
53:BV:40:LEU:HD23	53:BV:47:VAL:HG22	1.94	0.49
53:BV:52:VAL:O	53:BV:54:GLY:N	2.45	0.49
54:BW:4:LYS:HG3	54:BW:106:ILE:CG2	2.41	0.49
1:AA:323:U:O2'	20:AT:22:ARG:NE	2.45	0.49
1:AA:332:G:C4	1:AA:333:G:C8	3.00	0.49
1:AA:356:A:O3'	1:AA:367:U:H2'	2.13	0.49
1:AA:356:A:N3	1:AA:368:U:O2'	2.40	0.49
1:AA:452:A:O2'	1:AA:453:A:H5'	2.11	0.49
1:AA:554:C:OP1	12:AL:22:SER:CB	2.59	0.49
1:AA:592:G:O2'	1:AA:593:G:H5'	2.11	0.49
1:AA:692:U:O2'	1:AA:694:A:N7	2.38	0.49
1:AA:774:G:H2'	1:AA:775:G:O4'	2.13	0.49
1:AA:839:U:O2	1:AA:839:U:C2'	2.60	0.49
1:AA:1068:G:H5'	1:AA:1388:C:OP1	2.12	0.49
1:AA:1413:A:C2	1:AA:1414:U:C2	3.01	0.49
2:AB:95:GLN:C	2:AB:96:ARG:HD2	2.37	0.49
4:AD:70:ILE:CG2	4:AD:71:SER:N	2.75	0.49
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.12	0.49
7:AG:139:GLU:HA	7:AG:142:GLU:HB2	1.93	0.49
13:AM:96:LEU:C	13:AM:110:ARG:HD3	2.37	0.49
19:AS:23:ASN:HA	29:B4:47:GLN:CG	2.43	0.49
20:AT:36:LEU:CD1	20:AT:55:ILE:HG22	2.43	0.49
22:AV:69:C:O2'	22:AV:70:G:H8	1.95	0.49
24:AY:25:GLY:HA3	24:AY:29:ILE:CD1	2.42	0.49
24:AY:223:LEU:CD2	42:BH:97:ARG:HH22	2.24	0.49
26:B1:48:LYS:NZ	26:B1:61:ARG:HG2	2.27	0.49
29:B4:5:ILE:O	41:BG:67:LYS:HD2	2.12	0.49
31:B6:15:GLU:O	31:B6:16:CYS:C	2.55	0.49
33:B8:4:MET:HE2	35:BA:592:G:N3	2.28	0.49
33:B8:30:ARG:O	33:B8:31:HIS:HB3	2.11	0.49
35:BA:214:G:H1'	35:BA:216:A:O2'	2.13	0.49
35:BA:627:A:C6	35:BA:637:A:C8	3.00	0.49
35:BA:701:G:H2'	35:BA:702:G:H8	1.76	0.49
35:BA:816:C:N3	35:BA:1192:G:N2	2.59	0.49
35:BA:833:U:H2'	35:BA:834:C:C6	2.45	0.49
35:BA:1058:G:N2	35:BA:1080:C:H42	2.11	0.49
35:BA:1065:U:O2'	35:BA:1066:U:H5''	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1414:G:N2	35:BA:1589:C:C2	2.81	0.49
35:BA:1462:C:H5'	35:BA:2703:C:O4'	2.12	0.49
35:BA:1842:G:C2	35:BA:1901:A:C2	2.99	0.49
35:BA:2292:C:H2'	35:BA:2293:C:C6	2.45	0.49
35:BA:2543:G:H5'	35:BA:2543:G:C8	2.38	0.49
35:BA:2641:G:O2'	35:BA:2642:G:H5'	2.13	0.49
35:BA:2657:A:N3	35:BA:2657:A:H5'	2.26	0.49
36:BB:42:C:O2'	36:BB:43:C:P	2.69	0.49
36:BB:57:A:C8	41:BG:27:ASN:ND2	2.69	0.49
36:BB:102:A:C2'	36:BB:103:G:H8	2.24	0.49
37:BC:46:LYS:HD2	37:BC:47:LEU:O	2.12	0.49
37:BC:62:VAL:O	37:BC:62:VAL:HG13	2.12	0.49
38:BD:24:ILE:HG23	38:BD:83:GLU:N	2.27	0.49
40:BF:26:ALA:O	40:BF:27:GLU:CG	2.55	0.49
40:BF:144:LYS:HG2	40:BF:144:LYS:O	2.12	0.49
41:BG:46:ALA:O	41:BG:47:LYS:HD2	2.11	0.49
42:BH:18:GLU:HB2	42:BH:25:LYS:O	2.13	0.49
42:BH:98:LEU:HD23	42:BH:125:VAL:HG23	1.95	0.49
47:BP:16:ARG:CZ	47:BP:18:ARG:HB2	2.42	0.49
47:BP:83:VAL:HG13	47:BP:114:ILE:CD1	2.42	0.49
50:BS:35:ILE:H	50:BS:53:SER:HB2	1.77	0.49
51:BT:94:ALA:C	51:BT:96:ARG:H	2.21	0.49
52:BU:13:LYS:HA	52:BU:16:LYS:HD2	1.95	0.49
55:BX:3:THR:O	55:BX:4:ALA:HB2	2.13	0.49
55:BX:12:VAL:HA	55:BX:27:THR:O	2.12	0.49
57:BZ:63:ASP:O	57:BZ:64:GLY:C	2.55	0.49
1:AA:22:G:O2'	1:AA:913:A:N1	2.46	0.49
1:AA:23:C:O2'	1:AA:24:U:C5'	2.58	0.49
1:AA:109:A:C8	1:AA:327:A:O4'	2.65	0.49
1:AA:357:G:P	1:AA:367:U:H2'	2.52	0.49
1:AA:537:G:H2'	1:AA:538:G:C8	2.47	0.49
1:AA:570:G:H1'	1:AA:820:U:N3	2.27	0.49
1:AA:571:U:H5''	1:AA:819:A:C4	2.47	0.49
1:AA:672:U:O2'	1:AA:673:G:H8	1.96	0.49
1:AA:1048:G:N3	1:AA:1050:G:N7	2.60	0.49
1:AA:1106:G:C4	1:AA:1107:C:C5	3.01	0.49
1:AA:1230:C:H6	1:AA:1230:C:O5'	1.94	0.49
3:AC:7:PRO:HG3	3:AC:184:TYR:HB2	1.93	0.49
3:AC:47:LEU:HD23	3:AC:52:LEU:CD1	2.39	0.49
4:AD:187:ARG:HB3	4:AD:187:ARG:CZ	2.42	0.49
5:AE:143:ARG:HH11	5:AE:143:ARG:HG3	1.78	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:15:ASP:OD1	6:AF:18:GLN:HG3	2.12	0.49
7:AG:54:THR:O	7:AG:54:THR:HG23	2.12	0.49
7:AG:70:LYS:HG2	7:AG:96:GLN:HG2	1.93	0.49
8:AH:85:ARG:O	8:AH:86:ILE:HD13	2.11	0.49
8:AH:85:ARG:CZ	8:AH:87:SER:O	2.60	0.49
9:AI:99:LEU:HB2	9:AI:101:PHE:HD1	1.77	0.49
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.68	0.49
15:AO:70:LEU:O	15:AO:74:ASP:C	2.55	0.49
22:AV:37:A:O2'	22:AV:38:A:H5'	2.13	0.49
22:AV:55:U:H2'	22:AV:56:C:H3'	1.93	0.49
22:AV:62:C:H3'	22:AV:63:G:H5''	1.94	0.49
24:AY:136:PRO:HB2	24:AY:246:PHE:CZ	2.48	0.49
24:AY:202:GLN:O	24:AY:203:GLU:C	2.54	0.49
24:AY:242:ASP:OD1	24:AY:245:LEU:HG	2.12	0.49
24:AY:430:PRO:HD2	24:AY:435:ASP:O	2.13	0.49
30:B5:43:HIS:N	30:B5:43:HIS:CD2	2.80	0.49
32:B7:2:LYS:HE3	32:B7:6:GLN:HG3	1.94	0.49
33:B8:4:MET:HE1	35:BA:592:G:H21	1.77	0.49
35:BA:143(A):C:H4'	55:BX:38:GLU:OE2	2.12	0.49
35:BA:895:U:H3'	35:BA:896:A:C5'	2.43	0.49
35:BA:906:G:O2'	48:BQ:67:ARG:NH2	2.46	0.49
35:BA:1188:U:O2'	35:BA:1189:A:H5'	2.11	0.49
35:BA:1830:C:O5'	35:BA:1830:C:H6	1.95	0.49
35:BA:1859:A:H61	35:BA:1883:G:H1'	1.77	0.49
35:BA:1951:U:C6	35:BA:1953:A:OP2	2.66	0.49
35:BA:2180:U:C6	35:BA:2181:G:C8	2.95	0.49
35:BA:2267:A:H3'	35:BA:2267:A:N3	2.28	0.49
35:BA:2343:C:O2'	35:BA:2344:U:H5'	2.11	0.49
35:BA:2456:C:H2'	35:BA:2457:U:C6	2.40	0.49
35:BA:2521:C:H5'	35:BA:2522:U:OP2	2.12	0.49
35:BA:2630:G:HO2'	35:BA:2892:A:HO2'	1.57	0.49
37:BC:132:GLY:N	37:BC:133:PRO:CD	2.75	0.49
41:BG:43:LEU:C	41:BG:45:GLU:HG2	2.38	0.49
42:BH:94:TYR:CD1	42:BH:107:VAL:C	2.90	0.49
45:BN:15:LEU:C	45:BN:15:LEU:HD13	2.37	0.49
45:BN:67:LEU:O	45:BN:68:GLU:CB	2.60	0.49
45:BN:72:TYR:HE1	45:BN:87:LEU:HD23	1.77	0.49
48:BQ:48:GLU:O	48:BQ:49:ALA:C	2.55	0.49
48:BQ:114:ALA:C	48:BQ:118:LEU:HD12	2.34	0.49
49:BR:20:LEU:O	49:BR:21:TYR:C	2.55	0.49
50:BS:85:VAL:CG2	50:BS:106:ARG:HB2	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:85:VAL:HG22	50:BS:106:ARG:HB2	1.93	0.49
51:BT:32:TYR:O	51:BT:41:ARG:O	2.30	0.49
51:BT:56:GLY:O	51:BT:57:PHE:C	2.56	0.49
53:BV:99:ILE:N	53:BV:99:ILE:CD1	2.74	0.49
55:BX:4:ALA:N	55:BX:6:ASP:OD2	2.41	0.49
56:BY:88:LYS:HZ3	56:BY:93:GLY:N	2.09	0.49
57:BZ:8:TYR:CB	57:BZ:38:TYR:CZ	2.95	0.49
57:BZ:42:VAL:C	57:BZ:44:PHE:N	2.67	0.49
57:BZ:144:LEU:HD22	57:BZ:144:LEU:N	2.27	0.49
1:AA:246:A:O2'	17:AQ:99:SER:HB2	2.12	0.49
1:AA:302:G:O2'	1:AA:556:C:H5''	2.12	0.49
1:AA:724:G:O2'	1:AA:725:G:H5'	2.13	0.49
1:AA:1038:C:O2'	1:AA:1039:C:H5'	2.13	0.49
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.31	0.49
1:AA:1282:C:H2'	1:AA:1283:G:H5'	1.93	0.49
1:AA:1345:U:H5''	9:AI:120:ARG:HH11	1.78	0.49
1:AA:1372:U:P	9:AI:69:GLY:HA3	2.52	0.49
1:AA:1438:G:OP1	20:AT:34:LYS:HD3	2.12	0.49
1:AA:1452:C:OP2	1:AA:1456:G:O6	2.30	0.49
2:AB:22:LYS:CA	2:AB:22:LYS:CE	2.86	0.49
2:AB:122:PHE:HA	2:AB:139:LYS:HZ3	1.77	0.49
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.12	0.49
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.27	0.49
10:AJ:29:ARG:O	10:AJ:29:ARG:CG	2.60	0.49
10:AJ:38:ILE:O	10:AJ:40:LEU:HD23	2.13	0.49
11:AK:80:VAL:HG22	11:AK:104:GLN:O	2.12	0.49
15:AO:81:LEU:O	15:AO:82:ILE:C	2.55	0.49
17:AQ:81:ARG:C	17:AQ:83:ASP:N	2.69	0.49
18:AR:59:SER:HG	18:AR:62:GLU:CD	2.20	0.49
19:AS:75:ALA:O	19:AS:76:PRO:C	2.55	0.49
22:AV:26:G:C5	22:AV:27:U:H5	2.30	0.49
22:AV:58:A:N1	22:AV:61:C:C5	2.80	0.49
24:AY:333:GLN:C	24:AY:335:ARG:H	2.20	0.49
24:AY:509:VAL:O	24:AY:512:ARG:HB2	2.13	0.49
24:AY:517:ARG:O	24:AY:519:PRO:HD3	2.12	0.49
25:B0:42:GLY:HA3	35:BA:2331:G:C4'	2.42	0.49
25:B0:49:LYS:HG3	25:B0:80:HIS:HD1	1.77	0.49
25:B0:62:LEU:HD23	25:B0:62:LEU:N	2.27	0.49
27:B2:29:LYS:HZ3	27:B2:57:ILE:HG21	1.77	0.49
33:B8:21:LYS:HD2	35:BA:651:G:P	2.51	0.49
35:BA:81:G:N2	56:BY:2:ARG:NH1	2.57	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:154:G:N1	35:BA:173:G:C6	2.80	0.49
35:BA:199:A:H61	35:BA:2433:A:C2'	2.24	0.49
35:BA:431:U:O5'	35:BA:431:U:H6	1.95	0.49
35:BA:636:G:H4'	35:BA:638:G:H4'	1.94	0.49
35:BA:745:G:C2'	35:BA:746:A:H5'	2.43	0.49
35:BA:861:A:H2'	35:BA:862:G:H5'	1.94	0.49
35:BA:1047:G:H2'	35:BA:1110:G:N2	2.26	0.49
35:BA:1167:U:N3	35:BA:1183:G:N1	2.60	0.49
35:BA:1291:C:O2'	35:BA:1292:U:H5'	2.12	0.49
35:BA:1315:C:C2	35:BA:1338:G:N2	2.81	0.49
35:BA:1766:U:O5'	35:BA:1766:U:H6	1.96	0.49
35:BA:1886:C:H2'	35:BA:1887:C:C6	2.48	0.49
35:BA:2050:C:H1'	39:BE:156:MET:HE1	1.93	0.49
35:BA:2068:U:N3	35:BA:2430:A:C2	2.73	0.49
35:BA:2761:G:H2'	35:BA:2762:G:C5'	2.41	0.49
35:BA:2785:C:H2'	35:BA:2786:U:H6	1.71	0.49
35:BA:2792:G:C2	35:BA:2805:G:N2	2.80	0.49
35:BA:2822:G:H8	35:BA:2822:G:O5'	1.95	0.49
36:BB:76:G:O2'	57:BZ:19:ARG:NH2	2.45	0.49
37:BC:100:ILE:CG2	37:BC:127:MET:HG3	2.27	0.49
38:BD:65:ILE:O	38:BD:67:PHE:N	2.45	0.49
38:BD:153:ALA:HB1	38:BD:157:ARG:HH11	1.77	0.49
39:BE:59:VAL:HG22	39:BE:63:LEU:HA	1.95	0.49
39:BE:186:GLY:O	39:BE:187:ALA:HB3	2.11	0.49
40:BF:101:LEU:HD12	40:BF:102:PRO:CD	2.21	0.49
40:BF:184:TYR:HE1	47:BP:7:ARG:HH21	1.60	0.49
45:BN:62:VAL:HG11	45:BN:67:LEU:CG	2.42	0.49
46:BO:53:LYS:O	46:BO:56:ASP:HB2	2.12	0.49
48:BQ:29:PHE:HE2	48:BQ:67:ARG:CZ	2.23	0.49
48:BQ:45:GLN:H	48:BQ:45:GLN:HE21	1.59	0.49
48:BQ:135:ASP:C	48:BQ:137:TYR:H	2.21	0.49
49:BR:59:ASP:O	49:BR:63:ARG:HB2	2.13	0.49
50:BS:85:VAL:HG23	50:BS:86:ALA:H	1.77	0.49
53:BV:39:LEU:HD12	53:BV:47:VAL:HG11	1.93	0.49
54:BW:18:ARG:NH1	54:BW:76:VAL:HG13	2.28	0.49
54:BW:72:LYS:HD2	54:BW:108:GLY:HA3	1.92	0.49
1:AA:106:C:H42	20:AT:14:LYS:NZ	2.09	0.49
1:AA:243:A:H4'	1:AA:244:U:O5'	2.13	0.49
1:AA:986:A:H2'	1:AA:987:G:C8	2.48	0.49
1:AA:1073:U:H6	1:AA:1073:U:O5'	1.96	0.49
1:AA:1117:G:H8	1:AA:1117:G:C5'	2.24	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1117:G:H1'	9:AI:106:ALA:HB1	1.95	0.49
1:AA:1199:U:C4'	10:AJ:54:PHE:CE2	2.92	0.49
1:AA:1348:U:H5'	9:AI:110:GLU:HB2	1.94	0.49
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.48	0.49
2:AB:20:GLU:HG3	2:AB:191:ASP:HB2	1.95	0.49
2:AB:22:LYS:HE3	2:AB:40:HIS:CE1	2.48	0.49
2:AB:32:ILE:CG2	2:AB:32:ILE:O	2.60	0.49
2:AB:44:LEU:O	2:AB:45:GLN:C	2.56	0.49
2:AB:112:VAL:O	2:AB:113:HIS:C	2.56	0.49
3:AC:71:ALA:O	3:AC:73:PRO:HD3	2.13	0.49
4:AD:65:ARG:HB2	4:AD:75:PHE:CZ	2.47	0.49
5:AE:9:LYS:HB3	5:AE:112:LEU:HD11	1.94	0.49
8:AH:29:SER:HB3	8:AH:32:LYS:CD	2.42	0.49
10:AJ:8:LEU:N	10:AJ:70:ARG:O	2.46	0.49
10:AJ:17:ASP:O	10:AJ:21:GLN:HB2	2.13	0.49
10:AJ:38:ILE:O	10:AJ:40:LEU:CD2	2.61	0.49
12:AL:34:ARG:HB3	12:AL:61:THR:HG21	1.94	0.49
14:AN:40:CYS:C	14:AN:42:ILE:N	2.71	0.49
24:AY:90:PRO:HD2	24:AY:99:THR:CG2	2.36	0.49
24:AY:178:LEU:O	24:AY:179:PHE:C	2.55	0.49
25:B0:45:PHE:HB2	25:B0:59:LEU:CD1	2.41	0.49
26:B1:37:ILE:C	26:B1:37:ILE:HD12	2.37	0.49
28:B3:14:GLY:C	28:B3:15:TYR:CD1	2.90	0.49
33:B8:62:LEU:HD22	35:BA:242:G:H5'	1.94	0.49
35:BA:116:C:O2'	35:BA:117:G:H5'	2.12	0.49
35:BA:153:C:N4	35:BA:154:G:O6	2.46	0.49
35:BA:471:A:N6	35:BA:472:A:C2	2.81	0.49
35:BA:587:C:H4'	35:BA:588:U:H6	1.76	0.49
35:BA:640:C:N4	35:BA:641:C:N4	2.61	0.49
35:BA:685:A:N3	35:BA:689:A:N6	2.61	0.49
35:BA:803:U:H2'	35:BA:804:A:C5'	2.43	0.49
35:BA:884:C:O5'	35:BA:884:C:C6	2.63	0.49
35:BA:954:G:N3	35:BA:2274:A:C2	2.81	0.49
35:BA:1029:A:C2'	35:BA:1030:G:H5'	2.42	0.49
35:BA:1241:A:N7	35:BA:1242:A:C5	2.81	0.49
35:BA:1258:C:O4'	40:BF:84:VAL:HG21	2.13	0.49
35:BA:1292:U:H2'	35:BA:1293:C:H6	1.74	0.49
35:BA:1326:U:C4	35:BA:1648:C:H4'	2.48	0.49
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.40	0.49
35:BA:1792:G:C6	35:BA:1793:C:C5	3.00	0.49
35:BA:1902:C:C5'	38:BD:246:PRO:CD	2.90	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2474:C:H5''	35:BA:2475:C:H5	1.76	0.49
35:BA:2581:G:H22	35:BA:2610:C:H2'	1.77	0.49
35:BA:2630:G:O2'	35:BA:2892:A:O2'	2.26	0.49
35:BA:2771:C:C2	35:BA:2772:C:C5	3.00	0.49
36:BB:85:G:N2	36:BB:93:G:C4	2.81	0.49
37:BC:21:THR:HG22	37:BC:225:ASN:CB	2.43	0.49
37:BC:58:VAL:O	37:BC:59:ARG:CB	2.60	0.49
38:BD:95:LEU:N	38:BD:95:LEU:CD1	2.75	0.49
39:BE:38:THR:C	39:BE:40:GLU:N	2.71	0.49
39:BE:117:MET:HA	39:BE:122:PHE:CA	2.42	0.49
40:BF:155:LEU:HB3	40:BF:192:LEU:HA	1.94	0.49
40:BF:157:VAL:HG21	40:BF:194:MET:HG2	1.95	0.49
42:BH:38:SER:HB3	42:BH:64:LEU:HD11	1.89	0.49
42:BH:41:MET:HE2	42:BH:42:ARG:O	2.12	0.49
42:BH:141:VAL:O	42:BH:145:ALA:N	2.43	0.49
47:BP:83:VAL:HG13	47:BP:114:ILE:HD12	1.93	0.49
47:BP:146:VAL:O	47:BP:148:LEU:HG	2.13	0.49
51:BT:61:PHE:CE2	51:BT:63:VAL:HG23	2.48	0.49
52:BU:17:ILE:CD1	52:BU:17:ILE:H	2.26	0.49
53:BV:76:LYS:O	53:BV:79:VAL:HG23	2.13	0.49
56:BY:6:HIS:H	56:BY:6:HIS:HD2	1.60	0.49
57:BZ:37:VAL:HG23	57:BZ:38:TYR:N	2.28	0.49
57:BZ:146:ILE:O	57:BZ:147:GLY:O	2.30	0.49
1:AA:52:G:O2'	1:AA:53:A:H5'	2.13	0.49
1:AA:66:G:C4'	1:AA:173:U:C4	2.96	0.49
1:AA:580:U:H5'	15:AO:58:MET:HE3	1.93	0.49
1:AA:623:C:H2'	1:AA:624:C:H6	1.76	0.49
1:AA:665:A:C8	1:AA:725:G:C2	3.01	0.49
1:AA:803:G:C5	1:AA:804:U:C4	3.00	0.49
1:AA:837:G:O2'	1:AA:838:G:H5'	2.12	0.49
1:AA:1014:A:C5'	19:AS:14:HIS:CD2	2.96	0.49
1:AA:1061:G:HO2'	1:AA:1062:U:H5'	1.73	0.49
1:AA:1127:G:O2'	1:AA:1128:C:H5'	2.13	0.49
1:AA:1195:C:C5	1:AA:1197:G:C8	3.01	0.49
1:AA:1261:A:N6	1:AA:1275:A:C8	2.81	0.49
2:AB:103:THR:HA	2:AB:180:LEU:CD1	2.40	0.49
3:AC:14:ILE:CD1	3:AC:178:LEU:HG	2.43	0.49
3:AC:35:GLU:HB2	3:AC:59:ARG:HH22	1.77	0.49
4:AD:166:LYS:C	4:AD:168:ARG:H	2.21	0.49
4:AD:175:SER:CB	4:AD:186:LEU:HD11	2.42	0.49
5:AE:79:GLU:OE1	5:AE:92:LYS:HE3	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:99:LEU:N	9:AI:99:LEU:CD2	2.71	0.49
13:AM:11:ARG:HG2	13:AM:12:ASN:N	2.27	0.49
16:AP:27:LYS:HG2	16:AP:30:GLY:CA	2.43	0.49
16:AP:52:ASP:O	16:AP:56:ALA:HB2	2.13	0.49
16:AP:67:THR:CA	16:AP:70:ALA:HB3	2.43	0.49
19:AS:60:VAL:HG13	19:AS:60:VAL:O	2.12	0.49
19:AS:79:THR:CG2	19:AS:80:TYR:N	2.75	0.49
20:AT:19:SER:O	20:AT:22:ARG:N	2.46	0.49
20:AT:36:LEU:HD13	20:AT:36:LEU:C	2.37	0.49
20:AT:43:LEU:O	20:AT:48:LYS:HB2	2.13	0.49
24:AY:87:LEU:O	24:AY:88:ASP:C	2.55	0.49
24:AY:138:LEU:CA	24:AY:253:PRO:HG2	2.36	0.49
24:AY:141:MET:O	24:AY:144:LEU:HD23	2.13	0.49
24:AY:169:ILE:O	24:AY:169:ILE:HG22	2.13	0.49
24:AY:197:LYS:HD2	24:AY:200:THR:HG23	1.94	0.49
24:AY:200:THR:O	24:AY:200:THR:HG23	2.11	0.49
24:AY:282:ARG:CD	24:AY:319:ARG:HH12	2.26	0.49
24:AY:469:ALA:O	24:AY:470:THR:HG22	2.13	0.49
26:B1:18:ILE:HD12	35:BA:380:U:OP2	2.13	0.49
27:B2:35:LEU:CD1	27:B2:36:ARG:N	2.73	0.49
32:B7:11:LYS:O	32:B7:12:ARG:C	2.55	0.49
34:B9:31:LYS:HE2	35:BA:2478:A:H5'	1.93	0.49
35:BA:286:C:H42	35:BA:355:G:H1	1.61	0.49
35:BA:662:G:H4'	47:BP:19:VAL:O	2.13	0.49
35:BA:960:A:H5'	35:BA:2457:U:H4'	1.94	0.49
35:BA:1038:C:C3'	35:BA:1039:G:C5'	2.89	0.49
35:BA:1184:G:C2'	35:BA:1185:C:H5'	2.42	0.49
35:BA:1416:G:H1'	35:BA:1417:C:C6	2.48	0.49
35:BA:1678:G:H1'	35:BA:1991:U:H1'	1.94	0.49
35:BA:1772:G:N2	35:BA:1774:C:C5'	2.75	0.49
35:BA:1878:G:H2'	35:BA:1879:C:C6	2.48	0.49
35:BA:1947:C:C4	35:BA:1948:G:N7	2.80	0.49
35:BA:2014:A:O2'	35:BA:2015:A:C8	2.65	0.49
35:BA:2020:A:OP1	52:BU:27:LEU:HD13	2.12	0.49
35:BA:2052:G:C4'	39:BE:143:ASN:O	2.57	0.49
35:BA:2110:G:N2	35:BA:2180:U:H3	2.11	0.49
35:BA:2111:C:H1'	35:BA:2118:U:H4'	1.94	0.49
35:BA:2185:C:N3	35:BA:2186:G:N7	2.61	0.49
35:BA:2199:A:C2	35:BA:2200:C:H1'	2.48	0.49
35:BA:2262:U:O2'	35:BA:2263:C:H5'	2.13	0.49
35:BA:2396:G:C2	35:BA:2397:G:N7	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2489:G:C6	35:BA:2490:G:C6	3.01	0.49
35:BA:2599:G:H2'	35:BA:2600:A:C8	2.48	0.49
35:BA:2743:C:C2	35:BA:2762:G:C2	3.01	0.49
35:BA:2875:C:H4'	51:BT:5:ALA:CB	2.43	0.49
37:BC:7:TYR:HA	37:BC:10:LEU:HD23	1.94	0.49
37:BC:10:LEU:CD1	37:BC:32:LEU:O	2.60	0.49
37:BC:168:THR:O	37:BC:169:GLY:C	2.55	0.49
38:BD:211:ARG:C	38:BD:213:ARG:N	2.70	0.49
38:BD:267:SER:O	38:BD:268:ARG:HB2	2.12	0.49
39:BE:49:LEU:HD11	39:BE:91:VAL:CG2	2.43	0.49
40:BF:54:ARG:HB2	40:BF:79:GLY:O	2.12	0.49
41:BG:69:ALA:O	41:BG:90:LEU:HD12	2.13	0.49
41:BG:78:SER:C	41:BG:80:PHE:N	2.69	0.49
41:BG:125:PHE:N	41:BG:125:PHE:CD1	2.76	0.49
41:BG:125:PHE:CB	41:BG:130:ASN:O	2.60	0.49
41:BG:139:LEU:HA	41:BG:144:ILE:HD13	1.95	0.49
42:BH:87:LEU:HB2	42:BH:131:VAL:O	2.13	0.49
45:BN:15:LEU:O	45:BN:136:GLU:HA	2.12	0.49
45:BN:132:ALA:O	45:BN:133:GLN:HB2	2.13	0.49
48:BQ:21:THR:HG22	48:BQ:23:GLY:O	2.13	0.49
49:BR:19:ALA:O	49:BR:23:ASN:HB2	2.13	0.49
49:BR:78:LYS:O	49:BR:83:ILE:HG12	2.12	0.49
50:BS:34:HIS:O	50:BS:35:ILE:HG22	2.13	0.49
51:BT:27:THR:HG23	51:BT:28:VAL:N	2.27	0.49
53:BV:19:LYS:HB3	53:BV:94:LEU:O	2.13	0.49
57:BZ:33:LEU:CG	57:BZ:34:ASN:N	2.75	0.49
1:AA:740:U:H4'	15:AO:42:HIS:ND1	2.27	0.49
1:AA:782:A:C2	1:AA:801:U:C2	3.01	0.49
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.95	0.49
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.13	0.49
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.66	0.49
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.77	0.49
1:AA:1442(B):A:HO2'	1:AA:1443:G:H8	1.61	0.49
1:AA:1493:A:C2'	1:AA:1494:G:C8	2.96	0.49
1:AA:1494:G:O6	1:AA:1495:U:O4	2.31	0.49
1:AA:1530:G:H2'	1:AA:1531:A:H8	1.77	0.49
2:AB:60:ASP:HB3	2:AB:64:ARG:HH21	1.77	0.49
2:AB:102:LEU:O	2:AB:103:THR:C	2.55	0.49
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.59	0.49
3:AC:155:GLY:O	3:AC:157:ILE:N	2.45	0.49
4:AD:155:LEU:C	4:AD:157:LEU:N	2.71	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:39:LEU:HB3	8:AH:45:ILE:HG12	1.95	0.49
8:AH:48:TYR:CD2	8:AH:49:GLU:N	2.80	0.49
8:AH:100:ILE:O	8:AH:102:ARG:NH1	2.46	0.49
14:AN:54:PRO:O	14:AN:56:VAL:HG23	2.13	0.49
17:AQ:58:GLU:OE1	17:AQ:75:ARG:NE	2.45	0.49
17:AQ:81:ARG:HB3	17:AQ:84:LEU:HD12	1.95	0.49
19:AS:44:MET:SD	29:B4:47:GLN:NE2	2.86	0.49
20:AT:73:HIS:ND1	20:AT:74:LYS:CD	2.76	0.49
24:AY:145:ASP:O	24:AY:176:GLY:O	2.31	0.49
24:AY:340:VAL:HG12	24:AY:342:ILE:HG22	1.95	0.49
24:AY:377:ASP:OD2	24:AY:378:THR:N	2.45	0.49
24:AY:415:GLY:CA	24:AY:457:TYR:CE1	2.95	0.49
29:B4:30:GLU:O	29:B4:31:ILE:HD12	2.12	0.49
30:B5:28:PRO:HG2	54:BW:35:ILE:HD13	1.94	0.49
31:B6:45:LYS:N	31:B6:45:LYS:CD	2.74	0.49
33:B8:38:GLY:O	33:B8:42:ARG:HB2	2.12	0.49
34:B9:30:PRO:C	34:B9:32:HIS:N	2.69	0.49
35:BA:78:A:H8	35:BA:78:A:O5'	1.96	0.49
35:BA:151:C:O2'	35:BA:152:G:H5'	2.13	0.49
35:BA:259:G:H21	35:BA:621:A:H8	1.61	0.49
35:BA:324:A:H2'	35:BA:325:G:O4'	2.12	0.49
35:BA:602:G:H2'	35:BA:602:G:N3	2.28	0.49
35:BA:832:G:N2	35:BA:833:U:C2	2.81	0.49
35:BA:956:G:C8	48:BQ:14:ARG:NH2	2.81	0.49
35:BA:1060:U:H3'	44:BK:1:UNK:CB	2.42	0.49
35:BA:1169:G:H2'	35:BA:1170:G:O4'	2.13	0.49
35:BA:1277:G:O2'	35:BA:1278:A:H5'	2.13	0.49
35:BA:1567:A:C4	38:BD:84:TYR:CD2	3.00	0.49
35:BA:1821:A:H8	35:BA:1821:A:O5'	1.96	0.49
35:BA:2103:C:H2'	35:BA:2104:G:C5'	2.42	0.49
35:BA:2221:G:N2	38:BD:151:LYS:HE3	2.27	0.49
35:BA:2232:U:O2'	35:BA:2233:U:H5'	2.13	0.49
35:BA:2603:G:C2	35:BA:2604:U:N1	2.81	0.49
37:BC:81:GLU:C	37:BC:83:ILE:H	2.19	0.49
38:BD:9:TYR:OH	38:BD:13:ARG:NE	2.45	0.49
38:BD:71:ASP:HB3	38:BD:103:ARG:NH1	2.22	0.49
38:BD:169:GLU:CD	38:BD:184:LYS:HZ2	2.20	0.49
38:BD:224:ALA:CB	38:BD:233:HIS:HB3	2.42	0.49
41:BG:161:THR:CG2	41:BG:172:LEU:CD1	2.90	0.49
42:BH:66:GLY:HA2	42:BH:69:ARG:CG	2.42	0.49
43:BJ:15:UNK:HA	43:BJ:18:UNK:CB	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:68:GLU:N	46:BO:68:GLU:OE1	2.44	0.49
49:BR:26:LYS:HG3	49:BR:70:LEU:HD23	1.95	0.49
51:BT:45:PHE:CZ	51:BT:74:ARG:HB2	2.46	0.49
51:BT:64:ARG:HG3	51:BT:73:GLU:HG2	1.95	0.49
54:BW:5:ALA:HB3	54:BW:105:VAL:H	1.77	0.49
56:BY:28:LYS:CG	56:BY:39:VAL:HA	2.42	0.49
57:BZ:68:PRO:O	57:BZ:91:LEU:HB2	2.13	0.49
1:AA:141:A:H4'	1:AA:182:U:C1'	2.42	0.49
1:AA:225:C:O2'	1:AA:226:G:H5'	2.13	0.49
1:AA:578:C:H4'	1:AA:729:A:O4'	2.13	0.49
1:AA:775:G:C2'	1:AA:776:G:H5'	2.42	0.49
1:AA:1055:A:C6	1:AA:1206:G:C4	3.01	0.49
1:AA:1314:C:C2	1:AA:1315:U:C6	3.01	0.49
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.12	0.49
2:AB:55:PHE:HE1	2:AB:218:ALA:CB	2.25	0.49
2:AB:72:GLY:O	2:AB:94:ASN:HA	2.13	0.49
2:AB:222:ILE:H	2:AB:222:ILE:CD1	2.25	0.49
3:AC:55:VAL:O	3:AC:55:VAL:HG12	2.12	0.49
3:AC:66:VAL:HB	3:AC:100:ALA:O	2.13	0.49
4:AD:58:LEU:HD13	4:AD:58:LEU:C	2.38	0.49
4:AD:101:LEU:C	4:AD:103:ASN:H	2.20	0.49
4:AD:174:LEU:HD23	4:AD:185:PHE:HA	1.93	0.49
5:AE:76:ILE:CG2	5:AE:118:ILE:HD12	2.43	0.49
6:AF:8:ILE:HG22	6:AF:10:LEU:HD12	1.94	0.49
9:AI:85:LEU:C	9:AI:85:LEU:CD1	2.86	0.49
13:AM:86:CYS:O	13:AM:87:TYR:C	2.54	0.49
14:AN:57:ARG:HH11	14:AN:57:ARG:CG	2.26	0.49
18:AR:76:LEU:O	18:AR:78:LEU:HG	2.13	0.49
19:AS:58:VAL:C	19:AS:60:VAL:H	2.20	0.49
24:AY:79:TYR:HE2	24:AY:269:LEU:HD13	1.78	0.49
24:AY:142:ASN:O	24:AY:143:LYS:CB	2.61	0.49
24:AY:198:GLY:HA2	24:AY:262:ASN:ND2	2.28	0.49
35:BA:625:G:O2'	35:BA:626:U:H5'	2.12	0.49
35:BA:680:G:N2	35:BA:798:G:C4	2.80	0.49
35:BA:724:U:O2'	35:BA:725:G:H5'	2.13	0.49
35:BA:824:A:C5	35:BA:825:C:C4	3.01	0.49
35:BA:840:C:H2'	35:BA:841:A:C8	2.47	0.49
35:BA:948:G:OP1	35:BA:962:G:OP1	2.29	0.49
35:BA:1168:G:H2'	35:BA:1169:G:C8	2.48	0.49
35:BA:1224:C:N4	35:BA:1225:G:C6	2.81	0.49
35:BA:1301:A:O2'	35:BA:1302:A:H2'	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1350:C:C4	35:BA:1382:G:C2	3.01	0.49
35:BA:1598:C:C5'	55:BX:36:LYS:HD3	2.43	0.49
35:BA:1842:G:N3	35:BA:1901:A:C2	2.80	0.49
35:BA:1844:C:C2'	35:BA:1845:G:C5'	2.80	0.49
35:BA:1991:U:C2'	35:BA:1992:G:H5''	2.41	0.49
35:BA:2345:G:C2	35:BA:2381:C:H2'	2.48	0.49
35:BA:2422:A:C2	35:BA:2424:C:C2	3.00	0.49
35:BA:2447:G:O6	35:BA:2504:U:O4	2.31	0.49
35:BA:2557:G:H2'	35:BA:2558:C:H6	1.77	0.49
35:BA:2713:A:H4'	35:BA:2713:A:OP2	2.13	0.49
35:BA:2864:G:O2'	35:BA:2865:U:H5'	2.13	0.49
36:BB:104:U:O2'	57:BZ:72:ARG:CG	2.59	0.49
38:BD:248:SER:OG	38:BD:252:TRP:CD1	2.65	0.49
40:BF:53:THR:O	40:BF:55:GLY:N	2.46	0.49
40:BF:205:ARG:O	40:BF:205:ARG:CG	2.60	0.49
41:BG:60:LEU:HD12	41:BG:68:PRO:HG3	1.95	0.49
42:BH:46:GLU:O	42:BH:47:GLU:HB2	2.11	0.49
42:BH:125:VAL:HA	42:BH:131:VAL:CG1	2.24	0.49
42:BH:148:ILE:N	42:BH:148:ILE:HD13	2.27	0.49
46:BO:8:LEU:HD23	46:BO:84:ALA:HB2	1.94	0.49
46:BO:43:VAL:HG23	46:BO:56:ASP:O	2.12	0.49
47:BP:115:LEU:HD23	47:BP:115:LEU:H	1.77	0.49
48:BQ:44:ALA:O	48:BQ:45:GLN:C	2.56	0.49
51:BT:8:LYS:O	51:BT:11:GLU:OE1	2.30	0.49
51:BT:11:GLU:C	51:BT:13:ARG:N	2.68	0.49
51:BT:27:THR:HG23	51:BT:28:VAL:H	1.78	0.49
52:BU:6:THR:HG21	52:BU:10:ARG:CZ	2.43	0.49
53:BV:58:VAL:O	53:BV:59:ALA:HB2	2.13	0.49
54:BW:7:ALA:O	54:BW:102:HIS:CB	2.61	0.49
56:BY:64:GLU:O	56:BY:65:ALA:HB2	2.13	0.49
56:BY:67:LEU:CD2	56:BY:71:LYS:HB2	2.39	0.49
57:BZ:24:LEU:HD13	57:BZ:44:PHE:CD2	2.48	0.49
57:BZ:29:TYR:HB2	57:BZ:33:LEU:O	2.12	0.49
57:BZ:126:VAL:HA	57:BZ:163:LEU:HB2	1.94	0.49
1:AA:580:U:N3	1:AA:581:G:C4	2.81	0.48
1:AA:699:C:C2'	1:AA:700:G:H5'	2.43	0.48
1:AA:722:A:H2'	1:AA:722:A:N3	2.28	0.48
1:AA:1112:C:O2	3:AC:179:ARG:HG2	2.13	0.48
2:AB:70:PHE:C	2:AB:71:VAL:CG2	2.86	0.48
11:AK:108:ILE:N	11:AK:108:ILE:CD1	2.75	0.48
14:AN:29:ARG:NH1	14:AN:31:ARG:O	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:33:ILE:N	16:AP:33:ILE:HD13	2.27	0.48
18:AR:29:PHE:CE1	18:AR:31:LEU:HB3	2.48	0.48
18:AR:29:PHE:HE1	18:AR:31:LEU:HB3	1.78	0.48
19:AS:9:VAL:HG12	19:AS:11:VAL:CG1	2.25	0.48
19:AS:51:VAL:CA	19:AS:58:VAL:HG22	2.43	0.48
20:AT:53:LEU:O	20:AT:55:ILE:N	2.46	0.48
20:AT:53:LEU:C	20:AT:55:ILE:N	2.71	0.48
24:AY:184:HIS:HE1	24:AY:191:TYR:CZ	2.30	0.48
24:AY:317:PHE:HA	24:AY:365:LEU:O	2.13	0.48
26:B1:14:VAL:HG22	35:BA:188:G:H5'	1.94	0.48
27:B2:61:LEU:O	27:B2:65:ASN:N	2.46	0.48
28:B3:3:ARG:HB2	28:B3:59:VAL:O	2.12	0.48
35:BA:62:C:O5'	35:BA:62:C:H6	1.95	0.48
35:BA:94(A):G:C2'	35:BA:95:G:O4'	2.60	0.48
35:BA:185:U:O2'	35:BA:186:G:H5'	2.12	0.48
35:BA:199:A:N1	35:BA:2433:A:O2'	2.45	0.48
35:BA:245:G:O2'	35:BA:246:C:H5'	2.13	0.48
35:BA:447:A:C5	35:BA:454:A:N7	2.81	0.48
35:BA:650:C:C5'	35:BA:651:G:OP2	2.61	0.48
35:BA:695:G:H4'	35:BA:1380:G:H5'	1.94	0.48
35:BA:729:G:H5'	35:BA:730:C:C5'	2.42	0.48
35:BA:740:U:H5''	35:BA:1784:A:OP1	2.13	0.48
35:BA:751:A:N7	35:BA:789:A:C6	2.81	0.48
35:BA:896:A:H4'	35:BA:897:C:OP2	2.13	0.48
35:BA:998:C:C2'	35:BA:999:U:O5'	2.61	0.48
35:BA:999:U:C5	35:BA:1154:G:C6	3.01	0.48
35:BA:1477:A:C6	35:BA:1478:G:C5	3.01	0.48
35:BA:1612:C:C2'	35:BA:1613:G:O5'	2.61	0.48
35:BA:1914:C:O2	35:BA:1914:C:C4'	2.61	0.48
35:BA:1954:G:H1'	35:BA:1956:U:O4	2.12	0.48
35:BA:2234:G:C2	35:BA:2235:G:C8	3.01	0.48
35:BA:2290:G:N2	35:BA:2373:G:O2'	2.46	0.48
35:BA:2373:G:O2'	35:BA:2374:C:H5'	2.12	0.48
35:BA:2794:C:N4	35:BA:2801(A):A:H61	2.11	0.48
37:BC:99:ILE:HG22	37:BC:99:ILE:O	2.13	0.48
37:BC:114:VAL:HG12	37:BC:144:THR:HG22	1.95	0.48
38:BD:124:PRO:O	38:BD:126:GLN:N	2.46	0.48
39:BE:46:ALA:HB2	39:BE:82:ARG:HA	1.94	0.48
40:BF:20:LEU:H	40:BF:24:LEU:HD21	1.78	0.48
40:BF:158:THR:C	40:BF:160:ASN:N	2.71	0.48
42:BH:143:GLN:OE1	42:BH:143:GLN:CA	2.59	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:103:VAL:O	45:BN:106:MET:N	2.29	0.48
45:BN:121:LYS:O	45:BN:122:VAL:CG2	2.61	0.48
46:BO:64:ARG:HD3	46:BO:79:PHE:CD2	2.47	0.48
48:BQ:66:ILE:O	48:BQ:66:ILE:HG13	2.12	0.48
48:BQ:117:ALA:C	48:BQ:119:ARG:H	2.21	0.48
50:BS:18:ILE:HD12	50:BS:18:ILE:N	2.28	0.48
50:BS:85:VAL:CG2	50:BS:86:ALA:H	2.26	0.48
55:BX:35:THR:HG22	55:BX:37:THR:H	1.78	0.48
1:AA:368:U:H6	24:AY:370:HIS:HE2	1.58	0.48
1:AA:538:G:H5''	12:AL:114:LYS:CG	2.42	0.48
1:AA:1082:G:H2'	1:AA:1083:U:O4'	2.12	0.48
1:AA:1353:G:C4	1:AA:1354:C:H5	2.32	0.48
1:AA:1375:A:C4	1:AA:1376:U:C5	3.01	0.48
1:AA:1407:C:O2'	1:AA:1408:A:H5''	2.13	0.48
1:AA:1412:C:C2	1:AA:1413:A:N7	2.80	0.48
1:AA:1413:A:O2'	1:AA:1414:U:H5'	2.13	0.48
2:AB:25:ASN:HB2	2:AB:191:ASP:O	2.13	0.48
2:AB:47:THR:O	2:AB:48:MET:C	2.56	0.48
2:AB:47:THR:HA	2:AB:202:PRO:HG2	1.95	0.48
2:AB:213:LEU:C	2:AB:213:LEU:CD2	2.87	0.48
3:AC:121:ALA:HA	3:AC:124:ILE:HD12	1.95	0.48
4:AD:70:ILE:HG22	4:AD:71:SER:O	2.13	0.48
4:AD:100:ARG:HB3	4:AD:103:ASN:HB3	1.95	0.48
4:AD:121:VAL:O	4:AD:134:ASP:HB3	2.13	0.48
4:AD:182:LYS:HE3	4:AD:182:LYS:HB2	1.58	0.48
6:AF:52:ILE:CG2	6:AF:87:ARG:HH12	2.26	0.48
13:AM:44:ARG:O	13:AM:48:LEU:HD21	2.13	0.48
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.12	0.48
17:AQ:9:VAL:O	17:AQ:11:VAL:HG13	2.13	0.48
19:AS:42:PRO:HG3	19:AS:67:VAL:CG1	2.43	0.48
22:AV:49:G:H2'	22:AV:50:U:C6	2.44	0.48
24:AY:15:THR:O	24:AY:107:ASP:N	2.36	0.48
24:AY:25:GLY:O	24:AY:26:LYS:C	2.55	0.48
24:AY:103:LEU:O	24:AY:104:THR:C	2.56	0.48
24:AY:158:VAL:O	24:AY:163:LYS:N	2.47	0.48
24:AY:215:LEU:HD23	24:AY:216:ASP:CG	2.38	0.48
24:AY:452:ARG:C	24:AY:454:LYS:N	2.69	0.48
27:B2:24:LEU:HD22	27:B2:60:LEU:HD21	1.95	0.48
32:B7:31:LEU:CD2	32:B7:42:LEU:HB3	2.43	0.48
35:BA:141:A:C6	35:BA:142:A:C6	3.01	0.48
35:BA:182:A:O2'	35:BA:183:C:H5'	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:199:A:OP1	35:BA:2242:G:O2'	2.30	0.48
35:BA:201:C:C2'	35:BA:202:U:C5'	2.89	0.48
35:BA:322:A:C5'	35:BA:340:A:H1'	2.40	0.48
35:BA:349:G:C6	35:BA:350:U:C2	3.01	0.48
35:BA:589:C:O2'	35:BA:590:A:H5'	2.13	0.48
35:BA:607:U:O4	35:BA:619:G:H2'	2.13	0.48
35:BA:691:C:H6	35:BA:691:C:O5'	1.95	0.48
35:BA:854:G:N2	35:BA:924:C:C2	2.81	0.48
35:BA:920:G:C2	35:BA:921:G:C5	3.01	0.48
35:BA:920:G:N3	35:BA:921:G:C8	2.80	0.48
35:BA:1087:G:C4	35:BA:1089:G:N7	2.81	0.48
35:BA:1382:G:H4'	35:BA:1573:G:N3	2.28	0.48
35:BA:1419:A:O2'	35:BA:1420:U:H5''	2.13	0.48
35:BA:1539:G:C2	35:BA:1540:U:C1'	2.83	0.48
35:BA:1624:G:C6	35:BA:1625:C:C4	3.01	0.48
35:BA:2185:C:H2'	35:BA:2185:C:O2	2.13	0.48
35:BA:2236:C:H2'	35:BA:2237:G:O4'	2.12	0.48
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.13	0.48
35:BA:2710:C:N4	35:BA:2711:A:N6	2.61	0.48
35:BA:2721:A:C2	35:BA:2873:A:C5	3.01	0.48
36:BB:63:G:H2'	36:BB:64:C:C6	2.48	0.48
36:BB:72:G:C2'	36:BB:73:A:H5''	2.43	0.48
36:BB:107:G:C2	36:BB:108:U:C5	3.02	0.48
38:BD:31:LYS:HG2	38:BD:33:LEU:HD22	1.95	0.48
38:BD:186:HIS:CE1	38:BD:188:GLU:H	2.30	0.48
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.78	0.48
40:BF:6:VAL:O	40:BF:7:TYR:HB2	2.13	0.48
41:BG:78:SER:O	41:BG:80:PHE:N	2.47	0.48
41:BG:180:PHE:O	41:BG:182:LYS:N	2.45	0.48
47:BP:65:ARG:O	47:BP:68:GLN:OE1	2.30	0.48
47:BP:122:PRO:HG3	47:BP:140:ALA:O	2.13	0.48
49:BR:11:ASN:O	49:BR:12:ARG:CB	2.60	0.48
50:BS:33:LYS:C	50:BS:34:HIS:HD2	2.21	0.48
50:BS:53:SER:C	50:BS:55:ALA:H	2.14	0.48
52:BU:12:ARG:O	52:BU:13:LYS:C	2.55	0.48
56:BY:8:LYS:CE	56:BY:72:VAL:HG23	2.43	0.48
56:BY:76:CYS:O	56:BY:78:ALA:N	2.46	0.48
57:BZ:23:LYS:HD3	57:BZ:38:TYR:CE1	2.49	0.48
1:AA:333:G:H2'	1:AA:334:C:C6	2.48	0.48
1:AA:925:G:H1'	1:AA:1502:A:N9	2.27	0.48
1:AA:1203:C:C4	1:AA:1204:A:N7	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:A:C5	1:AA:1249:C:C5	3.01	0.48
2:AB:36:ARG:O	2:AB:39:ILE:N	2.39	0.48
2:AB:201:ILE:HG21	2:AB:214:ILE:HG21	1.93	0.48
4:AD:82:ALA:HB2	4:AD:92:VAL:HG12	1.95	0.48
6:AF:11:ASN:HA	6:AF:86:ARG:CZ	2.43	0.48
6:AF:24:GLU:O	6:AF:25:ILE:C	2.56	0.48
7:AG:139:GLU:O	7:AG:140:ASP:C	2.56	0.48
8:AH:33:GLU:O	8:AH:36:LEU:N	2.47	0.48
9:AI:42:ARG:NH1	9:AI:74:ILE:HD12	2.27	0.48
10:AJ:12:ASP:O	10:AJ:14:LYS:N	2.46	0.48
13:AM:3:ARG:O	13:AM:4:ILE:HG13	2.13	0.48
13:AM:89:GLY:O	13:AM:90:LEU:C	2.56	0.48
13:AM:116:THR:O	13:AM:117:VAL:C	2.55	0.48
18:AR:38:GLU:HG2	18:AR:39:VAL:HG23	1.95	0.48
22:AV:8:U:O2	22:AV:48:C:O2	2.31	0.48
24:AY:492:GLN:HB3	24:AY:504:ILE:HB	1.94	0.48
24:AY:513:LEU:O	24:AY:517:ARG:CG	2.62	0.48
29:B4:6:HIS:HB3	41:BG:67:LYS:CE	2.43	0.48
31:B6:25:LYS:HD2	35:BA:2285:C:N4	2.28	0.48
34:B9:8:LYS:HE2	34:B9:8:LYS:HB3	1.72	0.48
34:B9:8:LYS:HE3	35:BA:1032:A:OP1	2.14	0.48
35:BA:585:G:H2'	35:BA:586:A:N7	2.28	0.48
35:BA:655:A:H4'	35:BA:656:G:C5'	2.22	0.48
35:BA:831:G:C6	35:BA:832:G:N7	2.81	0.48
35:BA:1056:G:C4	35:BA:1102:C:H5	2.32	0.48
35:BA:1469:A:H2'	35:BA:1470:G:O4'	2.14	0.48
35:BA:1484:G:C3'	35:BA:1485:G:H5''	2.42	0.48
35:BA:1543:C:O5'	35:BA:1543:C:C6	2.67	0.48
35:BA:1786:A:C6	35:BA:1938:A:H2	2.29	0.48
35:BA:2052:G:O3'	39:BE:143:ASN:O	2.32	0.48
35:BA:2077:A:C2	35:BA:2078:C:C5	3.01	0.48
35:BA:2257:U:H2'	35:BA:2258:C:C6	2.48	0.48
35:BA:2499:C:H2'	35:BA:2500:U:O4'	2.13	0.48
35:BA:2516:G:C6	35:BA:2517:C:N4	2.82	0.48
35:BA:2525:G:N1	35:BA:2526:G:C5	2.81	0.48
35:BA:2547:U:O4'	35:BA:2566:A:C2	2.66	0.48
35:BA:2729:G:C2	35:BA:2730:C:C2	3.00	0.48
36:BB:8:U:H5'	36:BB:8:U:H6	1.79	0.48
37:BC:28:LEU:HD21	37:BC:222:VAL:HG22	1.95	0.48
37:BC:100:ILE:O	37:BC:104:LEU:HG	2.13	0.48
38:BD:28:GLU:H	38:BD:29:PRO:CD	2.26	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:85:ASP:OD2	38:BD:87:ASN:ND2	2.47	0.48
40:BF:6:VAL:HG11	40:BF:124:LEU:HD13	1.95	0.48
40:BF:78:ILE:O	40:BF:80:ALA:N	2.38	0.48
40:BF:110:LEU:C	40:BF:112:MET:N	2.68	0.48
41:BG:51:ARG:CZ	41:BG:53:LEU:HD21	2.44	0.48
42:BH:125:VAL:N	42:BH:126:PRO:HD3	2.27	0.48
46:BO:67:LYS:HD2	46:BO:68:GLU:CD	2.39	0.48
47:BP:50:ARG:NH2	47:BP:51:PHE:CE2	2.81	0.48
47:BP:105:LEU:O	47:BP:106:LEU:HB2	2.12	0.48
48:BQ:56:ARG:C	48:BQ:58:PHE:N	2.71	0.48
51:BT:22:PHE:CE2	51:BT:85:LYS:HE3	2.48	0.48
51:BT:41:ARG:HG2	51:BT:41:ARG:HH11	1.79	0.48
51:BT:110:ILE:C	51:BT:112:ARG:H	2.21	0.48
52:BU:92:ARG:HH22	53:BV:10:LYS:CG	2.23	0.48
53:BV:22:VAL:HG22	53:BV:92:THR:O	2.13	0.48
1:AA:35:G:H2'	1:AA:36:C:H6	1.79	0.48
1:AA:502:G:C6	1:AA:503:C:C4	3.02	0.48
1:AA:770:C:O4'	1:AA:900:A:H2	1.96	0.48
1:AA:889:A:H4'	1:AA:890:G:OP1	2.13	0.48
1:AA:960:U:C5	1:AA:1225:A:C8	3.01	0.48
1:AA:965:A:OP1	1:AA:1198:G:H5''	2.11	0.48
1:AA:1076:C:C2	1:AA:1082:G:C2	3.01	0.48
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.45	0.48
1:AA:1219:U:H2'	1:AA:1220:G:O4'	2.13	0.48
1:AA:1283:G:O2'	1:AA:1284:C:C6	2.43	0.48
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.75	0.48
4:AD:135:LEU:O	4:AD:136:PRO:C	2.56	0.48
4:AD:187:ARG:HH11	4:AD:187:ARG:CB	2.25	0.48
5:AE:137:GLU:HA	5:AE:140:ARG:NH1	2.28	0.48
6:AF:24:GLU:O	6:AF:27:GLN:N	2.45	0.48
6:AF:86:ARG:O	6:AF:87:ARG:HG2	2.12	0.48
9:AI:11:LYS:C	9:AI:13:ALA:H	2.21	0.48
10:AJ:14:LYS:C	10:AJ:16:LEU:N	2.69	0.48
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.95	0.48
11:AK:67:ASP:O	11:AK:70:LYS:N	2.46	0.48
13:AM:15:VAL:HG23	13:AM:16:ASP:N	2.28	0.48
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.95	0.48
13:AM:37:THR:O	13:AM:39:ILE:HG13	2.14	0.48
13:AM:68:GLY:O	13:AM:70:LEU:N	2.46	0.48
13:AM:107:ALA:O	13:AM:111:LYS:CD	2.62	0.48
15:AO:53:HIS:O	15:AO:54:ARG:C	2.56	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:82:ILE:HA	15:AO:82:ILE:HD12	1.60	0.48
17:AQ:18:THR:HG23	17:AQ:44:ALA:O	2.13	0.48
20:AT:57:ARG:HB2	20:AT:57:ARG:HH11	1.77	0.48
20:AT:61:SER:O	20:AT:62:LEU:C	2.57	0.48
22:AV:53:G:N2	22:AV:61:C:H42	2.11	0.48
24:AY:26:LYS:HG3	24:AY:88:ASP:OD1	2.13	0.48
24:AY:113:ILE:HG23	24:AY:118:GLY:C	2.39	0.48
24:AY:289:VAL:HB	24:AY:321:VAL:O	2.13	0.48
24:AY:449:VAL:CG2	24:AY:463:TYR:HH	2.27	0.48
24:AY:511:LEU:HD23	24:AY:515:GLN:OE1	2.13	0.48
25:B0:26:TYR:HE2	35:BA:857:C:C1'	2.20	0.48
25:B0:27:GLU:CD	25:B0:27:GLU:N	2.72	0.48
25:B0:50:ASN:C	25:B0:62:LEU:CD2	2.86	0.48
26:B1:14:VAL:CG1	26:B1:39:LYS:HD2	2.43	0.48
35:BA:7:G:C8	35:BA:7:G:O5'	2.66	0.48
35:BA:285:C:H2'	35:BA:286:C:H6	1.75	0.48
35:BA:300:A:O5'	56:BY:97:ARG:NH1	2.46	0.48
35:BA:589:C:H42	35:BA:668:G:H1	1.61	0.48
35:BA:590:A:C2	35:BA:591:C:C2	3.02	0.48
35:BA:1082:U:O5'	35:BA:1082:U:H6	1.96	0.48
35:BA:1124:C:N4	35:BA:1125:G:C6	2.82	0.48
35:BA:1140:C:H1'	35:BA:1143:A:C2	2.48	0.48
35:BA:1150:C:C2'	35:BA:1151:G:H5'	2.43	0.48
35:BA:1368:G:C2	35:BA:1369:G:N7	2.82	0.48
35:BA:1447:G:H4'	35:BA:1545:A:C4'	2.43	0.48
35:BA:1688:U:H2'	35:BA:1698:A:N6	2.28	0.48
35:BA:1799:G:N1	35:BA:1819:A:C8	2.81	0.48
35:BA:1814:G:H2'	35:BA:1815:A:N7	2.29	0.48
35:BA:2177:C:H3'	35:BA:2178:C:O2	2.13	0.48
35:BA:2392:A:N3	35:BA:2392:A:H5'	2.28	0.48
35:BA:2437:U:C2	35:BA:2438:U:C5	3.02	0.48
35:BA:2681:C:O2	35:BA:2681:C:C2'	2.62	0.48
36:BB:76:G:C5	36:BB:77:U:C5	3.01	0.48
36:BB:111:G:H2'	36:BB:112:U:C5'	2.43	0.48
37:BC:14:VAL:CG2	37:BC:32:LEU:HD21	2.43	0.48
37:BC:66:HIS:CE1	37:BC:184:LYS:HZ3	2.31	0.48
37:BC:145:VAL:HG12	37:BC:145:VAL:O	2.14	0.48
37:BC:161:ILE:O	37:BC:161:ILE:HD12	2.13	0.48
38:BD:33:LEU:CD2	38:BD:102:LYS:HB2	2.34	0.48
38:BD:80:ALA:CB	38:BD:94:LEU:HD13	2.44	0.48
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:65:LYS:HD3	45:BN:69:GLN:NE2	2.28	0.48
48:BQ:74:TYR:HD1	48:BQ:75:THR:N	2.11	0.48
50:BS:70:GLY:O	50:BS:72:ALA:N	2.47	0.48
57:BZ:125:LEU:HD23	57:BZ:164:ALA:HB3	1.94	0.48
1:AA:415:A:O2'	1:AA:416:G:H5'	2.14	0.48
1:AA:431:A:O2'	1:AA:432:A:H5'	2.13	0.48
1:AA:863:U:C5	1:AA:867:G:C6	3.02	0.48
1:AA:939:G:H1	1:AA:1344:C:N4	2.12	0.48
1:AA:1004:A:H2'	1:AA:1005:A:H5'	1.96	0.48
1:AA:1407:C:H2'	1:AA:1408:A:H5''	1.90	0.48
2:AB:76:GLN:OE1	2:AB:206:ASP:O	2.32	0.48
2:AB:177:ALA:CB	2:AB:184:VAL:HG22	2.43	0.48
3:AC:15:THR:HG23	3:AC:181:ASN:HA	1.96	0.48
3:AC:34:LEU:HD22	3:AC:38:ARG:HD2	1.95	0.48
4:AD:11:LEU:HB3	4:AD:66:ARG:HD3	1.96	0.48
4:AD:12:CYS:HA	4:AD:19:LEU:CB	2.35	0.48
4:AD:65:ARG:HA	4:AD:75:PHE:CE1	2.48	0.48
4:AD:153:ARG:HG2	4:AD:181:MET:HE2	1.95	0.48
6:AF:9:VAL:HG22	6:AF:60:PHE:CD2	2.49	0.48
7:AG:135:VAL:O	7:AG:138:LYS:CB	2.53	0.48
8:AH:110:ALA:O	8:AH:112:LEU:HD23	2.13	0.48
11:AK:105:VAL:O	11:AK:105:VAL:HG23	2.13	0.48
13:AM:32:GLU:HA	13:AM:35:GLU:HG2	1.96	0.48
15:AO:45:VAL:HG13	15:AO:46:HIS:N	2.28	0.48
19:AS:12:ASP:HB2	19:AS:35:SER:OG	2.13	0.48
20:AT:94:ALA:O	20:AT:95:ALA:C	2.56	0.48
22:AV:5:G:H1	22:AV:68:C:N4	2.06	0.48
24:AY:277:PRO:HB3	24:AY:280:MET:HE3	1.95	0.48
24:AY:281:PRO:C	24:AY:282:ARG:CD	2.87	0.48
24:AY:308:ASP:O	24:AY:308:ASP:OD1	2.32	0.48
24:AY:326:GLU:O	24:AY:327:LYS:C	2.56	0.48
26:B1:14:VAL:HG21	35:BA:188:G:H5'	1.91	0.48
26:B1:42:GLN:OE1	35:BA:396:G:H1'	2.13	0.48
26:B1:87:PRO:CG	26:B1:88:LYS:N	2.77	0.48
29:B4:27:THR:O	29:B4:28:LYS:HB3	2.13	0.48
30:B5:8:LYS:HE2	35:BA:2054:A:H2'	1.95	0.48
30:B5:40:LYS:HZ2	30:B5:45:VAL:HA	1.78	0.48
33:B8:55:ALA:O	33:B8:58:ILE:N	2.44	0.48
35:BA:54:G:OP2	35:BA:54:G:C8	2.66	0.48
35:BA:58:G:N3	35:BA:73:A:C2	2.79	0.48
35:BA:349:G:C6	35:BA:350:U:N3	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:363:G:C5	35:BA:363(A):A:N7	2.81	0.48
35:BA:465:G:C6	35:BA:466:A:N6	2.82	0.48
35:BA:742:G:C5'	35:BA:1675:C:O2'	2.61	0.48
35:BA:774:A:N1	35:BA:787:U:O2'	2.40	0.48
35:BA:818:G:H5'	35:BA:839:U:OP1	2.13	0.48
35:BA:1119:C:H2'	35:BA:1120:G:H8	1.77	0.48
35:BA:1337:G:N7	55:BX:62:LYS:NZ	2.61	0.48
35:BA:1604:C:O2'	35:BA:1605:C:H5'	2.14	0.48
35:BA:1832:C:H2'	35:BA:1833:U:O4'	2.14	0.48
35:BA:1890:A:H8	35:BA:1890:A:O5'	1.97	0.48
35:BA:1909:C:N4	35:BA:1921:G:H1	2.11	0.48
35:BA:2720:U:H3'	35:BA:2721:A:C8	2.38	0.48
35:BA:2730:C:O2'	35:BA:2731:G:H5'	2.13	0.48
35:BA:2848:G:C8	51:BT:97:ALA:HB2	2.49	0.48
35:BA:2873:A:H3'	35:BA:2874:C:C5	2.48	0.48
36:BB:18:G:H2'	36:BB:19:G:C8	2.48	0.48
38:BD:14:ARG:O	38:BD:14:ARG:HG3	2.12	0.48
38:BD:186:HIS:NE2	38:BD:188:GLU:CG	2.77	0.48
39:BE:7:VAL:HA	39:BE:194:GLY:O	2.13	0.48
39:BE:22:PRO:O	39:BE:23:VAL:CG1	2.60	0.48
45:BN:22:THR:C	45:BN:23:LEU:O	2.56	0.48
45:BN:35:ARG:O	45:BN:36:GLY:C	2.57	0.48
50:BS:18:ILE:HG22	50:BS:18:ILE:O	2.14	0.48
51:BT:53:ARG:NH1	51:BT:53:ARG:HB3	2.27	0.48
55:BX:10:ALA:HB3	55:BX:29:TRP:HB2	1.94	0.48
57:BZ:25:PRO:HA	57:BZ:38:TYR:HB2	1.95	0.48
57:BZ:141:VAL:HA	57:BZ:144:LEU:CD2	2.31	0.48
1:AA:10:A:OP2	5:AE:126:ARG:HD2	2.14	0.48
1:AA:344:A:C5'	1:AA:345:C:H5	2.26	0.48
1:AA:767:A:H2'	1:AA:768:A:O4'	2.12	0.48
1:AA:796:C:C2	1:AA:797:C:C5	3.01	0.48
1:AA:939:G:N2	1:AA:940:C:C2	2.82	0.48
1:AA:945:G:N1	1:AA:1337:G:C2	2.82	0.48
1:AA:1424:C:H2'	1:AA:1425:U:O4'	2.14	0.48
1:AA:1484:C:H4'	35:BA:1961:C:C4'	2.43	0.48
1:AA:1484:C:O4'	35:BA:1960:A:O2'	2.31	0.48
2:AB:141:GLU:O	2:AB:145:LEU:N	2.40	0.48
2:AB:201:ILE:C	2:AB:202:PRO:O	2.53	0.48
2:AB:236:TYR:HB3	2:AB:239:VAL:CG2	2.43	0.48
3:AC:182:ILE:HG12	3:AC:203:PHE:CD1	2.49	0.48
4:AD:3:ARG:O	4:AD:4:TYR:C	2.56	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:98:THR:HG21	5:AE:119:LEU:CD2	2.39	0.48
8:AH:11:THR:O	8:AH:13:ILE:N	2.45	0.48
11:AK:79:SER:HA	11:AK:104:GLN:HB3	1.95	0.48
18:AR:35:ARG:O	18:AR:37:VAL:HG13	2.13	0.48
18:AR:73:ALA:HB1	18:AR:79:LEU:HG	1.94	0.48
19:AS:9:VAL:HG13	19:AS:39:THR:CB	2.44	0.48
19:AS:20:LEU:HD22	19:AS:23:ASN:HD22	1.78	0.48
19:AS:75:ALA:H	19:AS:76:PRO:CD	2.27	0.48
19:AS:78:ARG:CB	19:AS:81:ARG:HH11	2.17	0.48
24:AY:13:ARG:CD	24:AY:363:ASP:CG	2.75	0.48
24:AY:21:HIS:CE1	24:AY:22:PRO:HD2	2.43	0.48
24:AY:431:ILE:HD11	24:AY:493:LEU:HB3	1.94	0.48
24:AY:468:VAL:HG13	24:AY:506:THR:HA	1.94	0.48
27:B2:50:ILE:HG22	27:B2:51:ARG:H	1.73	0.48
31:B6:37:ARG:O	31:B6:49:HIS:N	2.46	0.48
32:B7:11:LYS:CE	35:BA:686:G:C2	2.97	0.48
33:B8:8:LYS:O	33:B8:9:GLY:C	2.56	0.48
35:BA:354:G:H2'	35:BA:355:G:C8	2.48	0.48
35:BA:624:C:C5	47:BP:107:LYS:NZ	2.80	0.48
35:BA:943:U:OP2	47:BP:38:GLN:CD	2.57	0.48
35:BA:993:G:C6	35:BA:994:C:C5	3.02	0.48
35:BA:1131:G:N7	35:BA:2025:C:C1'	2.76	0.48
35:BA:1259:G:H2'	35:BA:1260:G:C8	2.48	0.48
35:BA:1295:C:C2	35:BA:1296:G:C8	3.01	0.48
35:BA:1389:G:H2'	35:BA:1390:U:O4'	2.13	0.48
35:BA:1551:C:C2'	35:BA:1552:G:H5'	2.43	0.48
35:BA:1786:A:C4	35:BA:1938:A:N1	2.81	0.48
35:BA:1935:G:H3'	35:BA:1962:C:H42	1.79	0.48
35:BA:2057:A:O2'	35:BA:2058:A:H5'	2.14	0.48
35:BA:2074:U:O2'	35:BA:2597:G:H1'	2.14	0.48
35:BA:2257:U:HO2'	35:BA:2258:C:H5'	1.77	0.48
35:BA:2645:G:C2'	35:BA:2646:C:H5'	2.44	0.48
35:BA:2658:C:H42	35:BA:2663:G:H1	1.61	0.48
35:BA:2726:U:O2'	35:BA:2727:G:O4'	2.31	0.48
35:BA:2779:U:H1'	35:BA:2781:A:C5	2.48	0.48
37:BC:20:TYR:O	37:BC:225:ASN:HB2	2.14	0.48
37:BC:56:GLN:HA	37:BC:201:PRO:CB	2.37	0.48
38:BD:24:ILE:O	38:BD:25:THR:C	2.56	0.48
38:BD:45:ASN:ND2	38:BD:46:GLN:N	2.61	0.48
38:BD:211:ARG:O	38:BD:214:TRP:N	2.47	0.48
39:BE:9:VAL:HG11	39:BE:25:VAL:CB	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:15:PHE:HA	39:BE:19:ARG:O	2.13	0.48
39:BE:38:THR:HG22	39:BE:40:GLU:N	2.27	0.48
40:BF:64:ILE:HG23	40:BF:65:TRP:CD2	2.48	0.48
41:BG:121:ASN:ND2	41:BG:123:ASN:H	2.11	0.48
42:BH:61:HIS:O	42:BH:62:LYS:C	2.57	0.48
42:BH:91:GLY:HA3	42:BH:94:TYR:CE2	2.48	0.48
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.61	0.48
45:BN:22:THR:N	45:BN:61:ARG:HB2	2.29	0.48
46:BO:89:ASN:C	46:BO:91:LEU:N	2.55	0.48
48:BQ:101:ARG:NH1	48:BQ:101:ARG:HG3	2.28	0.48
48:BQ:125:LEU:HD22	48:BQ:125:LEU:H	1.77	0.48
48:BQ:141:GLN:CD	57:BZ:72:ARG:HA	2.38	0.48
49:BR:14:SER:CA	49:BR:17:ARG:NH2	2.64	0.48
50:BS:38:GLN:O	50:BS:39:ILE:HG13	2.12	0.48
50:BS:89:ARG:CG	50:BS:92:TYR:HA	2.44	0.48
51:BT:13:ARG:NE	51:BT:13:ARG:CA	2.76	0.48
52:BU:59:ARG:O	52:BU:62:ILE:N	2.46	0.48
52:BU:74:LEU:HD13	52:BU:75:ASN:C	2.38	0.48
52:BU:90:VAL:O	52:BU:92:ARG:N	2.47	0.48
1:AA:59:A:C4	1:AA:331:G:N2	2.81	0.48
1:AA:80:G:H5''	1:AA:81:U:C6	2.49	0.48
1:AA:109:A:C6	1:AA:327:A:C5	3.01	0.48
1:AA:115:G:O2'	1:AA:116:A:OP2	2.31	0.48
1:AA:901:A:H2'	1:AA:902:G:C5'	2.43	0.48
1:AA:1071:C:H2'	1:AA:1072:G:C8	2.48	0.48
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.79	0.48
1:AA:1305:G:H5''	21:AU:5:ASP:N	2.29	0.48
2:AB:15:VAL:CG2	2:AB:209:ARG:HE	2.27	0.48
2:AB:208:ILE:O	2:AB:210:SER:N	2.47	0.48
2:AB:218:ALA:O	2:AB:219:VAL:C	2.56	0.48
3:AC:35:GLU:O	3:AC:36:ASP:C	2.57	0.48
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.28	0.48
5:AE:105:VAL:O	5:AE:109:ILE:HG13	2.13	0.48
7:AG:40:ALA:HB1	7:AG:44:TYR:HE2	1.74	0.48
7:AG:136:LYS:NZ	7:AG:140:ASP:OD1	2.40	0.48
9:AI:22:GLY:O	9:AI:58:ARG:C	2.57	0.48
13:AM:49:THR:C	13:AM:51:ALA:N	2.72	0.48
17:AQ:77:VAL:HG12	17:AQ:77:VAL:O	2.14	0.48
17:AQ:95:TYR:HA	17:AQ:98:LEU:HD12	1.96	0.48
18:AR:41:LYS:O	18:AR:43:PHE:N	2.47	0.48
24:AY:68:ILE:HB	24:AY:92:HIS:CE1	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:115:ALA:CB	24:AY:148:ILE:CB	2.91	0.48
24:AY:210:LEU:C	24:AY:212:ASN:N	2.71	0.48
24:AY:221:GLU:HA	24:AY:225:GLN:NE2	2.15	0.48
24:AY:305:ALA:CA	24:AY:422:GLU:HB3	2.44	0.48
24:AY:517:ARG:HG2	24:AY:517:ARG:NH1	2.28	0.48
28:B3:10:LYS:O	28:B3:11:SER:C	2.56	0.48
30:B5:16:ARG:HD2	30:B5:20:ARG:NH2	2.29	0.48
30:B5:51:TYR:HB3	30:B5:52:TYR:H	1.50	0.48
33:B8:56:GLU:OE1	33:B8:56:GLU:N	2.45	0.48
35:BA:109:G:O2'	35:BA:110:G:H5'	2.14	0.48
35:BA:197:A:H5'	35:BA:197:A:H8	1.77	0.48
35:BA:599:G:C2	35:BA:600:G:N7	2.82	0.48
35:BA:601:C:C5'	40:BF:108:LYS:HZ2	2.26	0.48
35:BA:1422:G:C4	35:BA:1423:G:C8	3.01	0.48
35:BA:1438:U:H5'	35:BA:1516:C:O3'	2.13	0.48
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.29	0.48
35:BA:1811:G:H2'	35:BA:1812:A:H8	1.78	0.48
35:BA:1853:A:O2'	35:BA:1854:A:H5'	2.13	0.48
35:BA:1856:G:H2'	35:BA:1857:G:O4'	2.13	0.48
35:BA:2093:G:C6	35:BA:2225:A:N7	2.81	0.48
35:BA:2132:U:N3	37:BC:5:LYS:HB2	2.27	0.48
35:BA:2222:G:C2'	35:BA:2223:G:H5'	2.44	0.48
35:BA:2243:U:O2	35:BA:2434:A:H2	1.95	0.48
35:BA:2382:G:H3'	35:BA:2382:G:OP1	2.14	0.48
35:BA:2407:G:H2'	35:BA:2408:U:C6	2.48	0.48
35:BA:2692:C:H2'	35:BA:2693:A:C8	2.46	0.48
35:BA:2726:U:O2	35:BA:2726:U:H5'	2.13	0.48
35:BA:2807:G:H2'	35:BA:2808:U:C4'	2.42	0.48
35:BA:2884:U:C5	35:BA:2885:C:C5	3.02	0.48
36:BB:71:C:H2'	36:BB:72:G:H5'	1.96	0.48
38:BD:92:ILE:HA	38:BD:107:ALA:H	1.78	0.48
38:BD:158:ALA:C	38:BD:196:VAL:HG11	2.34	0.48
42:BH:103:LEU:HG	42:BH:105:LEU:CD1	2.39	0.48
45:BN:112:LEU:O	45:BN:115:ARG:N	2.46	0.48
48:BQ:125:LEU:N	48:BQ:125:LEU:CD2	2.77	0.48
49:BR:29:LEU:CG	49:BR:52:ILE:HD11	2.44	0.48
51:BT:118:ARG:HA	51:BT:121:ILE:CG2	2.44	0.48
52:BU:65:ILE:HG23	52:BU:106:PHE:CZ	2.49	0.48
52:BU:76:TYR:O	52:BU:79:PHE:HB3	2.13	0.48
1:AA:102:G:H2'	1:AA:103:C:C6	2.49	0.48
1:AA:171:A:H2'	1:AA:172:A:O4'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:296:U:C2	1:AA:302:G:N2	2.81	0.48
1:AA:951:G:C6	1:AA:1231:G:N1	2.81	0.48
1:AA:1001(A):G:C8	1:AA:1002:G:C5	3.01	0.48
1:AA:1046:A:C2	1:AA:1047:G:H1'	2.49	0.48
1:AA:1261:A:C2	1:AA:1262:C:H1'	2.49	0.48
1:AA:1418:A:C8	1:AA:1419:G:H1'	2.49	0.48
2:AB:179:LYS:HA	8:AH:72:PRO:CD	2.42	0.48
2:AB:182:ILE:O	2:AB:183:PRO:C	2.57	0.48
3:AC:36:ASP:HA	3:AC:39:ILE:HD12	1.95	0.48
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.14	0.48
4:AD:128:VAL:HA	4:AD:145:GLU:O	2.14	0.48
5:AE:110:LEU:HA	5:AE:113:ALA:CB	2.44	0.48
5:AE:115:VAL:HG13	5:AE:116:THR:H	1.78	0.48
5:AE:152:ARG:CZ	8:AH:44:PHE:CE1	2.97	0.48
6:AF:45:LEU:HD13	6:AF:59:TYR:CD1	2.45	0.48
7:AG:133:GLY:O	7:AG:136:LYS:HB2	2.14	0.48
9:AI:42:ARG:HH12	9:AI:74:ILE:HD12	1.78	0.48
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.79	0.48
11:AK:46:GLY:O	11:AK:48:ILE:O	2.32	0.48
11:AK:59:TYR:CZ	11:AK:63:LEU:HD11	2.48	0.48
12:AL:70:ILE:O	12:AL:71:PRO:O	2.32	0.48
13:AM:88:ARG:HA	13:AM:98:VAL:CG1	2.43	0.48
14:AN:59:ALA:O	14:AN:60:SER:CB	2.62	0.48
15:AO:68:ARG:O	15:AO:71:GLN:N	2.47	0.48
17:AQ:67:LYS:HG2	17:AQ:68:ARG:HG2	1.94	0.48
24:AY:16:PHE:HE2	24:AY:84:VAL:HG12	1.78	0.48
24:AY:267:HIS:CD2	24:AY:267:HIS:N	2.80	0.48
24:AY:284:THR:CG2	24:AY:385:MET:HE1	2.44	0.48
27:B2:6:VAL:O	27:B2:10:LEU:HG	2.14	0.48
28:B3:16:PRO:CB	28:B3:18:ASP:OD1	2.62	0.48
31:B6:22:ALA:HB2	31:B6:39:TYR:CE2	2.49	0.48
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.96	0.48
34:B9:10:ILE:O	34:B9:11:CYS:HB3	2.12	0.48
35:BA:141:A:C2	35:BA:142:A:N1	2.81	0.48
35:BA:332:A:O2'	35:BA:334:C:OP2	2.20	0.48
35:BA:879:G:H1	35:BA:898:C:N4	2.12	0.48
35:BA:900:A:H5''	35:BA:901:A:C8	2.49	0.48
35:BA:907:U:O2	35:BA:907:U:H2'	2.13	0.48
35:BA:1113:U:O5'	35:BA:1113:U:H6	1.97	0.48
35:BA:1425:G:C6	35:BA:1426:G:C2	3.01	0.48
35:BA:1502:C:H6	35:BA:1502:C:H5''	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.44	0.48
35:BA:2049:G:H2'	35:BA:2050:C:H5'	1.95	0.48
35:BA:2078:C:C2'	35:BA:2079:U:H5'	2.43	0.48
35:BA:2252:G:O2'	35:BA:2253:G:H5'	2.13	0.48
35:BA:2463:C:O2	35:BA:2488:A:C2	2.66	0.48
35:BA:2579:C:H4'	39:BE:134:ILE:CG2	2.43	0.48
35:BA:2645:G:C8	35:BA:2645:G:OP2	2.63	0.48
38:BD:224:ALA:HA	38:BD:233:HIS:CB	2.44	0.48
39:BE:47:VAL:HB	39:BE:84:PHE:CD1	2.46	0.48
40:BF:119:ARG:HG2	40:BF:119:ARG:NH1	2.27	0.48
41:BG:181:ARG:O	41:BG:182:LYS:OXT	2.32	0.48
42:BH:83:TYR:O	42:BH:84:SER:O	2.31	0.48
45:BN:65:LYS:CD	45:BN:69:GLN:HE21	2.26	0.48
45:BN:74:ARG:HH22	45:BN:85:ILE:HD11	1.78	0.48
45:BN:108:PRO:HG2	45:BN:113:GLY:CA	2.43	0.48
46:BO:68:GLU:OE1	46:BO:78:ARG:HD3	2.13	0.48
47:BP:35:HIS:O	47:BP:36:LYS:O	2.31	0.48
47:BP:47:ASP:CB	47:BP:51:PHE:HB2	2.43	0.48
47:BP:79:ARG:O	47:BP:79:ARG:HG3	2.12	0.48
47:BP:106:LEU:HD11	47:BP:112:LEU:CG	2.39	0.48
48:BQ:87:LYS:HG2	48:BQ:88:GLY:O	2.14	0.48
49:BR:87:TYR:C	49:BR:89:ASP:H	2.22	0.48
49:BR:97:VAL:HG13	49:BR:114:VAL:HG12	1.96	0.48
50:BS:56:LEU:O	50:BS:56:LEU:CG	2.62	0.48
51:BT:41:ARG:HH11	51:BT:41:ARG:CG	2.27	0.48
51:BT:102:ILE:O	51:BT:102:ILE:HD12	2.14	0.48
57:BZ:19:ARG:HH12	57:BZ:84:GLU:CB	2.25	0.48
57:BZ:102:LEU:HD11	57:BZ:124:ILE:CD1	2.44	0.48
1:AA:8:A:C6	4:AD:209:ARG:HB3	2.49	0.48
1:AA:126:G:H2'	1:AA:127:G:O4'	2.14	0.48
1:AA:246:A:O3'	1:AA:247:G:H4'	2.14	0.48
1:AA:326:G:H2'	1:AA:327:A:H5'	1.92	0.48
1:AA:413:G:H1'	1:AA:428:G:H21	1.79	0.48
1:AA:598:U:C2'	1:AA:599:C:H6	2.22	0.48
1:AA:838:G:N2	1:AA:849:C:C2	2.82	0.48
1:AA:972:C:H4'	10:AJ:57:LYS:CG	2.42	0.48
1:AA:1060:C:C5'	14:AN:45:ARG:NH2	2.77	0.48
1:AA:1407:C:C2'	1:AA:1408:A:H5'	2.36	0.48
2:AB:57:PHE:O	2:AB:60:ASP:HB3	2.14	0.48
5:AE:118:ILE:CG1	5:AE:119:LEU:N	2.77	0.48
6:AF:46:ARG:HB2	6:AF:60:PHE:CE1	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:24:SER:C	11:AK:26:ASN:H	2.22	0.48
14:AN:21:TYR:N	14:AN:21:TYR:CD1	2.81	0.48
17:AQ:58:GLU:OE1	17:AQ:74:LEU:HD12	2.14	0.48
20:AT:96:GLY:O	20:AT:97:ALA:O	2.32	0.48
24:AY:23:ASP:OD1	24:AY:23:ASP:N	2.47	0.48
24:AY:154:LEU:CB	24:AY:155:LEU:HD12	2.43	0.48
24:AY:170:THR:CB	24:AY:182:VAL:HG11	2.43	0.48
24:AY:513:LEU:HD22	24:AY:517:ARG:NE	2.29	0.48
26:B1:48:LYS:HD2	26:B1:48:LYS:HA	1.63	0.48
29:B4:9:LEU:CD1	29:B4:26:SER:H	2.26	0.48
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.47	0.48
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.47	0.48
35:BA:388:G:H5'	35:BA:389:G:OP2	2.13	0.48
35:BA:441:U:C2'	40:BF:46:ARG:HE	2.26	0.48
35:BA:660:G:H5'	40:BF:99:TYR:CE1	2.49	0.48
35:BA:1071:G:H1'	35:BA:1089:G:H2'	1.95	0.48
35:BA:1363:C:C2	35:BA:1369:G:N1	2.82	0.48
35:BA:1381:G:H2'	35:BA:1382:G:C8	2.49	0.48
35:BA:1426:G:H2'	35:BA:1427:A:C8	2.49	0.48
35:BA:1542:A:H3'	35:BA:1542:A:C8	2.49	0.48
35:BA:1649:G:O2'	49:BR:107:ASP:OD2	2.31	0.48
35:BA:1798:U:OP1	38:BD:260:ARG:N	2.45	0.48
35:BA:1865:G:H5'	35:BA:1866:C:OP1	2.14	0.48
35:BA:2376:A:C2	35:BA:2377:A:C1'	2.97	0.48
35:BA:2400:G:C2	35:BA:2401:U:O2	2.67	0.48
35:BA:2428:G:O4'	35:BA:2429:G:C5	2.67	0.48
35:BA:2539:C:H2'	35:BA:2540:C:H6	1.79	0.48
35:BA:2695:C:H2'	35:BA:2696:U:H6	1.78	0.48
35:BA:2789:C:O2'	35:BA:2790:A:H1'	2.14	0.48
35:BA:2866:U:C6	35:BA:2868:A:H1'	2.48	0.48
36:BB:73:A:C8	36:BB:105:A:C6	3.02	0.48
36:BB:94:C:O2'	36:BB:95:C:H5'	2.14	0.48
37:BC:45:ALA:N	37:BC:171:ILE:O	2.47	0.48
37:BC:129:ARG:O	37:BC:129:ARG:HG3	2.12	0.48
38:BD:248:SER:OG	38:BD:252:TRP:CG	2.65	0.48
40:BF:81:PRO:CG	40:BF:82:ILE:H	2.27	0.48
40:BF:156:LEU:CD2	40:BF:167:ALA:CB	2.91	0.48
41:BG:7:LEU:O	41:BG:10:LYS:N	2.46	0.48
41:BG:43:LEU:HD11	41:BG:153:ARG:HG3	1.96	0.48
41:BG:125:PHE:CD2	41:BG:131:TYR:HD1	2.30	0.48
42:BH:38:SER:HB3	42:BH:64:LEU:HD21	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:92:ILE:HD12	42:BH:95:ARG:NH2	2.28	0.48
43:BJ:127:UNK:HA	43:BJ:130:UNK:CB	2.44	0.48
48:BQ:74:TYR:C	48:BQ:74:TYR:CD1	2.92	0.48
48:BQ:77:LYS:HD3	48:BQ:81:VAL:CG1	2.44	0.48
50:BS:84:GLN:HB2	50:BS:106:ARG:HA	1.96	0.48
50:BS:95:HIS:CG	50:BS:96:GLY:N	2.80	0.48
52:BU:112:ARG:HA	52:BU:115:ALA:HB2	1.96	0.48
56:BY:8:LYS:H	56:BY:8:LYS:CD	2.18	0.48
1:AA:42:G:H2'	1:AA:43:C:H6	1.78	0.48
1:AA:277:C:OP2	17:AQ:41:LYS:NZ	2.45	0.48
1:AA:377:G:H2'	1:AA:378:G:C8	2.49	0.48
1:AA:601:C:C2	1:AA:638:G:N2	2.82	0.48
1:AA:708:C:O2'	1:AA:709:G:H5'	2.14	0.48
1:AA:711:G:H4'	38:BD:138:VAL:CG1	2.43	0.48
1:AA:735:C:H2'	1:AA:736:C:C5	2.47	0.48
1:AA:1000:U:H3	1:AA:1042:G:N2	2.12	0.48
1:AA:1091:U:O2	1:AA:1093:A:C8	2.67	0.48
1:AA:1190:G:OP1	3:AC:5:ILE:HD13	2.14	0.48
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.62	0.48
1:AA:1346:A:C5'	9:AI:120:ARG:NH1	2.68	0.48
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.44	0.48
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.14	0.48
7:AG:71:PRO:HG3	7:AG:103:TRP:HZ3	1.79	0.48
9:AI:9:ARG:HG3	9:AI:14:VAL:HG22	1.96	0.48
10:AJ:64:GLU:OE2	10:AJ:66:ARG:NH2	2.46	0.48
11:AK:27:ASN:CG	11:AK:28:THR:N	2.72	0.48
11:AK:80:VAL:CG2	11:AK:104:GLN:O	2.61	0.48
11:AK:101:SER:OG	11:AK:103:LEU:HD23	2.14	0.48
11:AK:121:PRO:HB2	11:AK:125:PHE:HB2	1.95	0.48
12:AL:76:ASN:O	12:AL:76:ASN:CG	2.54	0.48
13:AM:73:GLU:O	13:AM:76:ALA:CB	2.62	0.48
13:AM:79:LYS:C	13:AM:81:LEU:N	2.71	0.48
17:AQ:99:SER:OG	17:AQ:100:LYS:N	2.46	0.48
18:AR:56:THR:O	18:AR:58:LEU:N	2.47	0.48
19:AS:16:LEU:HA	19:AS:19:VAL:HB	1.96	0.48
19:AS:42:PRO:O	19:AS:43:GLU:HB3	2.14	0.48
20:AT:18:GLN:NE2	20:AT:22:ARG:NH1	2.51	0.48
22:AV:47:U:N1	22:AV:50:U:OP1	2.47	0.48
24:AY:108:CYS:SG	24:AY:109:CYS:N	2.87	0.48
24:AY:142:ASN:ND2	58:AY:1000:GCP:C6	2.75	0.48
24:AY:144:LEU:HD12	24:AY:179:PHE:CZ	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:154:LEU:C	24:AY:156:ASP:N	2.71	0.48
24:AY:216:ASP:O	24:AY:220:GLY:N	2.47	0.48
24:AY:253:PRO:HB2	24:AY:275:TRP:CZ3	2.49	0.48
24:AY:304:GLN:O	24:AY:304:GLN:HG2	2.13	0.48
24:AY:498:GLY:O	24:AY:499:ASP:HB2	2.13	0.48
25:B0:16:SER:OG	35:BA:2262:U:OP2	2.28	0.48
26:B1:48:LYS:HZ2	26:B1:61:ARG:HG2	1.79	0.48
27:B2:29:LYS:NZ	27:B2:57:ILE:CG2	2.77	0.48
27:B2:56:GLN:O	27:B2:57:ILE:C	2.57	0.48
28:B3:37:LEU:CD2	28:B3:38:GLU:H	2.17	0.48
29:B4:5:ILE:O	41:BG:67:LYS:HE2	2.14	0.48
30:B5:8:LYS:NZ	35:BA:2055:C:OP1	2.45	0.48
32:B7:9:ARG:HG3	32:B7:9:ARG:NH1	2.29	0.48
35:BA:654(H):G:O6	35:BA:654(L):G:N7	2.46	0.48
35:BA:783:A:H8	35:BA:784:A:O5'	1.96	0.48
35:BA:834:C:H2'	35:BA:835:A:O4'	2.14	0.48
35:BA:940:G:H2'	35:BA:941:A:C5'	2.44	0.48
35:BA:1462:C:H5''	35:BA:2703:C:H5'	1.96	0.48
35:BA:1527:G:H5''	35:BA:1528:A:OP1	2.14	0.48
35:BA:1964:G:C6	35:BA:1967:C:C4	3.02	0.48
35:BA:1996:C:OP1	35:BA:1996:C:C6	2.66	0.48
35:BA:2247:A:C2	35:BA:2257:U:O2	2.67	0.48
35:BA:2334:G:C6	50:BS:15:ARG:NH2	2.81	0.48
35:BA:2443:C:H2'	35:BA:2444:G:H5'	1.92	0.48
35:BA:2769:C:H2'	35:BA:2770:G:O4'	2.13	0.48
37:BC:175:VAL:HG11	37:BC:189:ILE:CG1	2.38	0.48
37:BC:186:ALA:O	37:BC:190:ARG:NH1	2.47	0.48
38:BD:61:LEU:HD12	38:BD:62:TYR:O	2.14	0.48
38:BD:203:ASN:O	38:BD:204:ILE:C	2.54	0.48
40:BF:44:ARG:O	40:BF:45:ARG:C	2.57	0.48
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.95	0.48
44:BK:116:UNK:C	44:BK:118:UNK:N	2.76	0.48
45:BN:2:LYS:HZ1	52:BU:95:LEU:CD2	2.23	0.48
45:BN:6:PRO:HG3	45:BN:41:ASP:O	2.14	0.48
53:BV:2:PHE:CD1	53:BV:13:ARG:NH1	2.81	0.48
53:BV:39:LEU:O	53:BV:40:LEU:CB	2.58	0.48
53:BV:95:LEU:HD23	53:BV:95:LEU:C	2.38	0.48
55:BX:6:ASP:O	55:BX:9:LEU:HD21	2.14	0.48
55:BX:8:ILE:O	55:BX:9:LEU:HD23	2.14	0.48
57:BZ:126:VAL:HA	57:BZ:163:LEU:CB	2.44	0.48
1:AA:126:G:H1	1:AA:235:C:H42	1.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:186:C:H6	1:AA:186:C:O5'	1.97	0.47
1:AA:282:A:C6	1:AA:283:C:C2	3.02	0.47
1:AA:690:G:N7	11:AK:55:LYS:NZ	2.62	0.47
1:AA:773:G:C6	1:AA:774:G:N7	2.82	0.47
1:AA:817:C:H42	1:AA:1529:G:H1	1.60	0.47
1:AA:863:U:H5	1:AA:867:G:C6	2.31	0.47
1:AA:884:U:H4'	1:AA:885:G:H5''	1.95	0.47
1:AA:945:G:N2	1:AA:1337:G:N2	2.61	0.47
1:AA:1011:G:O2'	1:AA:1012:U:H5'	2.14	0.47
1:AA:1210:C:O4'	1:AA:1214:C:C4	2.66	0.47
3:AC:11:ARG:O	3:AC:12:LEU:C	2.56	0.47
5:AE:36:ASP:OD1	5:AE:40:ARG:HB2	2.14	0.47
5:AE:115:VAL:HG11	5:AE:118:ILE:HG22	1.97	0.47
6:AF:33:TYR:CE2	6:AF:75:LEU:HA	2.49	0.47
7:AG:37:ASN:ND2	9:AI:40:LEU:HD23	2.28	0.47
8:AH:46:LYS:HG3	8:AH:64:LYS:HB2	1.96	0.47
9:AI:82:ALA:CB	9:AI:96:LEU:HD21	2.42	0.47
16:AP:48:TRP:CD1	16:AP:48:TRP:N	2.82	0.47
16:AP:79:VAL:HB	16:AP:80:PHE:CE1	2.49	0.47
19:AS:32:LYS:O	19:AS:33:THR:HB	2.12	0.47
24:AY:25:GLY:O	24:AY:29:ILE:HB	2.14	0.47
24:AY:111:MET:SD	24:AY:113:ILE:CD1	2.98	0.47
24:AY:149:ARG:O	24:AY:150:ASP:CB	2.62	0.47
24:AY:172:PRO:O	24:AY:227:LEU:HD13	2.14	0.47
24:AY:223:LEU:HD21	42:BH:97:ARG:HH22	1.78	0.47
24:AY:346:LEU:N	24:AY:366:GLY:O	2.44	0.47
24:AY:403:LEU:HD11	24:AY:412:LEU:HD22	1.96	0.47
26:B1:82:LEU:C	26:B1:83:GLU:HG3	2.38	0.47
29:B4:8:LYS:O	29:B4:9:LEU:CB	2.61	0.47
30:B5:7:PRO:HA	35:BA:2615:U:C4	2.49	0.47
34:B9:19:ARG:NH1	35:BA:2755:C:H2'	2.29	0.47
35:BA:90:U:O2	35:BA:90:U:C2'	2.61	0.47
35:BA:491:G:H2'	35:BA:492:A:H8	1.78	0.47
35:BA:595:C:C4	35:BA:596:G:N7	2.82	0.47
35:BA:600:G:H2'	35:BA:601:C:C6	2.49	0.47
35:BA:646:A:H3'	35:BA:647:G:H8	1.78	0.47
35:BA:666:G:H4'	47:BP:49:ARG:NE	2.29	0.47
35:BA:831:G:C6	35:BA:832:G:C5	3.02	0.47
35:BA:906:G:H4'	48:BQ:67:ARG:HH22	1.77	0.47
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.66	0.47
35:BA:1773:A:N3	35:BA:1978:A:C2	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1787:A:C2	35:BA:1788:C:C4	3.02	0.47
35:BA:1799:G:N2	35:BA:1819:A:OP2	2.36	0.47
35:BA:1812:A:C2	35:BA:1813:G:C4	3.02	0.47
35:BA:2147:G:C2'	35:BA:2148:G:C5'	2.89	0.47
36:BB:48:A:H2'	36:BB:49:C:C6	2.48	0.47
36:BB:58:A:H2'	36:BB:59:A:O4'	2.13	0.47
37:BC:66:HIS:CE1	37:BC:184:LYS:NZ	2.82	0.47
38:BD:69:ARG:CZ	38:BD:105:ILE:HG13	2.44	0.47
38:BD:134:ARG:HG2	38:BD:135:PHE:HD1	1.78	0.47
38:BD:143:HIS:O	38:BD:144:ALA:CB	2.62	0.47
41:BG:11:TYR:CD2	41:BG:12:TYR:CD1	3.02	0.47
41:BG:143:GLU:O	41:BG:144:ILE:C	2.57	0.47
45:BN:7:LYS:O	45:BN:8:GLN:C	2.57	0.47
45:BN:107:LEU:HB3	45:BN:108:PRO:HD2	1.96	0.47
47:BP:100:LEU:HD22	47:BP:100:LEU:N	2.28	0.47
48:BQ:3:MET:O	48:BQ:4:PRO:O	2.32	0.47
50:BS:30:ARG:NH2	50:BS:62:LYS:HB3	2.21	0.47
51:BT:28:VAL:HG22	51:BT:46:GLU:HA	1.96	0.47
52:BU:95:LEU:O	52:BU:98:LEU:HG	2.15	0.47
56:BY:13:VAL:HG23	56:BY:74:PRO:CA	2.35	0.47
56:BY:25:GLY:HA3	56:BY:39:VAL:CG1	2.44	0.47
56:BY:47:LYS:O	56:BY:48:ALA:HB2	2.14	0.47
56:BY:80:GLY:O	56:BY:81:LYS:C	2.57	0.47
56:BY:85:VAL:HG12	56:BY:86:ARG:N	2.28	0.47
1:AA:28:G:C2	1:AA:556:C:N3	2.82	0.47
1:AA:113:G:C2	1:AA:114:U:C2	3.02	0.47
1:AA:180:U:O4	1:AA:195:A:C8	2.67	0.47
1:AA:338:A:O2'	1:AA:339:C:H5'	2.15	0.47
1:AA:795:C:H4'	1:AA:1506:U:O2	2.14	0.47
1:AA:817:C:C4	1:AA:819:A:H1'	2.49	0.47
1:AA:938:A:C2'	1:AA:939:G:H5'	2.44	0.47
1:AA:1009:G:C6	1:AA:1021:G:C6	3.02	0.47
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.15	0.47
1:AA:1015:A:C5	1:AA:1016:A:C5	3.02	0.47
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.78	0.47
1:AA:1149:C:OP1	9:AI:14:VAL:HG21	2.14	0.47
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.15	0.47
2:AB:7:VAL:HA	2:AB:11:LEU:HD12	1.96	0.47
2:AB:8:LYS:HZ3	2:AB:217:ARG:NH1	2.12	0.47
2:AB:49:GLU:O	2:AB:52:GLU:HB3	2.14	0.47
5:AE:15:ARG:HD2	5:AE:26:PHE:CD2	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:2:ARG:HD3	6:AF:92:LYS:CE	2.43	0.47
8:AH:87:SER:HG	8:AH:92:ARG:HA	1.76	0.47
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.61	0.47
9:AI:97:LYS:O	9:AI:98:PRO:C	2.57	0.47
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.14	0.47
10:AJ:8:LEU:HB2	10:AJ:70:ARG:HB2	1.95	0.47
10:AJ:40:LEU:N	10:AJ:40:LEU:CD2	2.72	0.47
11:AK:32:ILE:CD1	11:AK:68:ALA:O	2.62	0.47
11:AK:44:SER:HA	11:AK:64:ALA:HB1	1.95	0.47
14:AN:42:ILE:HD13	14:AN:42:ILE:HA	1.71	0.47
17:AQ:57:VAL:HG21	17:AQ:73:VAL:HG13	1.96	0.47
19:AS:44:MET:O	19:AS:47:HIS:HB2	2.14	0.47
21:AU:20:LYS:O	21:AU:20:LYS:CG	2.61	0.47
22:AV:21:A:C5	22:AV:46:G:C6	3.02	0.47
22:AV:39:C:C4	22:AV:40:C:C5	3.02	0.47
22:AV:58:A:O2'	22:AV:60:U:OP2	2.32	0.47
24:AY:251:ILE:HD12	24:AY:252:THR:CA	2.43	0.47
24:AY:309:PRO:CG	24:AY:313:ASP:OD2	2.57	0.47
24:AY:472:ARG:HG3	24:AY:523:PHE:CE2	2.49	0.47
25:B0:48:GLY:O	25:B0:49:LYS:C	2.56	0.47
29:B4:16:CYS:SG	29:B4:17:GLY:N	2.87	0.47
35:BA:14:A:N6	35:BA:15:G:C2	2.81	0.47
35:BA:271(C):C:C2	35:BA:271(D):G:C8	3.03	0.47
35:BA:553:G:HO2'	35:BA:554:U:H5'	1.78	0.47
35:BA:969:U:C4	35:BA:970:C:N4	2.83	0.47
35:BA:1057:A:N6	35:BA:1087:G:OP2	2.48	0.47
35:BA:1358:G:C2'	35:BA:1359:A:H5''	2.44	0.47
35:BA:1417:C:H2'	35:BA:1418:G:O4'	2.14	0.47
35:BA:1512:U:H2'	35:BA:1512:U:O2	2.13	0.47
35:BA:1800:C:OP1	38:BD:266:SER:HB2	2.14	0.47
35:BA:1853:A:C6	35:BA:1889:A:C5	3.02	0.47
35:BA:1947:C:C2	35:BA:1948:G:C8	3.02	0.47
35:BA:2010:G:H5''	54:BW:42:ARG:CB	2.44	0.47
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.45	0.47
35:BA:2177:C:H2'	35:BA:2178:C:O2	2.14	0.47
35:BA:2247:A:H2	35:BA:2257:U:O2	1.98	0.47
35:BA:2374:C:O2'	35:BA:2375:G:H5'	2.13	0.47
35:BA:2389:G:C5'	35:BA:2390:U:H5'	2.37	0.47
35:BA:2514:U:H1'	39:BE:151:TYR:OH	2.13	0.47
35:BA:2521:C:O2'	35:BA:2564:A:N3	2.43	0.47
35:BA:2637:U:H5''	39:BE:82:ARG:HH21	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2646:C:H5	35:BA:2732:G:C4	2.32	0.47
35:BA:2739:U:C5	35:BA:2763:G:C6	3.02	0.47
36:BB:69:G:N2	36:BB:70:C:C1'	2.77	0.47
36:BB:98:G:O2'	36:BB:99:G:H5'	2.13	0.47
38:BD:142:VAL:O	38:BD:163:ALA:CB	2.60	0.47
39:BE:1:MET:O	39:BE:3:GLY:N	2.47	0.47
41:BG:25:TYR:CE2	41:BG:32:PRO:HD2	2.49	0.47
41:BG:125:PHE:O	41:BG:128:ARG:O	2.31	0.47
41:BG:133:LEU:HD21	41:BG:157:ILE:HD12	1.96	0.47
41:BG:146:TYR:O	41:BG:149:VAL:HG22	2.14	0.47
45:BN:70:LYS:C	45:BN:71:ILE:HG13	2.40	0.47
50:BS:39:ILE:HD12	50:BS:73:LEU:HD21	1.96	0.47
51:BT:8:LYS:HA	51:BT:11:GLU:CD	2.39	0.47
52:BU:42:ALA:C	52:BU:44:ASN:N	2.70	0.47
52:BU:65:ILE:HG12	52:BU:96:ALA:HB1	1.95	0.47
52:BU:93:LYS:H	52:BU:93:LYS:CD	2.27	0.47
54:BW:88:ARG:HB3	54:BW:92:ARG:HB2	1.96	0.47
57:BZ:52:SER:OG	57:BZ:53:ILE:HG12	2.15	0.47
1:AA:68:G:C2	1:AA:69:G:H1'	2.49	0.47
1:AA:107:G:H5'	1:AA:379:C:OP1	2.14	0.47
1:AA:225:C:C2	1:AA:226:G:C8	3.03	0.47
1:AA:343:U:O2'	1:AA:344:A:H3'	2.15	0.47
1:AA:346:G:H2'	1:AA:346:G:N3	2.30	0.47
1:AA:381:C:H2'	1:AA:382:A:O4'	2.13	0.47
1:AA:513:C:O2'	1:AA:514:C:H5'	2.14	0.47
1:AA:657:G:O2'	1:AA:658:G:H5'	2.14	0.47
1:AA:896:C:C3'	1:AA:896:C:C6	2.96	0.47
1:AA:958:A:H2'	1:AA:985:C:O2'	2.14	0.47
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.80	0.47
1:AA:1117:G:O3'	9:AI:104:ARG:NE	2.47	0.47
1:AA:1262:C:N4	1:AA:1274:G:N2	2.61	0.47
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	2.15	0.47
1:AA:1416:G:C5	1:AA:1417:G:C5	3.02	0.47
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.15	0.47
2:AB:98:LEU:H	2:AB:98:LEU:HG	1.38	0.47
3:AC:34:LEU:HD21	3:AC:38:ARG:CZ	2.44	0.47
3:AC:157:ILE:HB	3:AC:164:ARG:HE	1.79	0.47
4:AD:84:LYS:HA	4:AD:84:LYS:HD3	1.64	0.47
5:AE:95:ALA:O	5:AE:96:PRO:C	2.58	0.47
6:AF:33:TYR:CD2	6:AF:75:LEU:HB2	2.50	0.47
7:AG:116:ALA:O	7:AG:117:ALA:C	2.57	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:149:ARG:HH11	7:AG:149:ARG:HG2	1.79	0.47
10:AJ:16:LEU:C	10:AJ:16:LEU:CD1	2.83	0.47
10:AJ:20:ALA:O	10:AJ:24:VAL:HG23	2.15	0.47
12:AL:18:VAL:O	12:AL:19:ARG:CB	2.63	0.47
13:AM:68:GLY:C	13:AM:70:LEU:N	2.69	0.47
14:AN:12:ARG:HH11	14:AN:12:ARG:CB	2.27	0.47
15:AO:9:GLN:O	15:AO:12:ILE:HB	2.14	0.47
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.15	0.47
16:AP:8:ARG:N	16:AP:29:ASP:OD1	2.45	0.47
17:AQ:58:GLU:C	17:AQ:59:ILE:HG12	2.39	0.47
17:AQ:81:ARG:HB3	17:AQ:83:ASP:OD1	2.14	0.47
18:AR:36:ASN:HB2	18:AR:39:VAL:HG23	1.95	0.47
20:AT:38:LYS:HA	20:AT:41:ILE:HD11	1.95	0.47
24:AY:78:PRO:HB3	24:AY:83:LEU:HA	1.97	0.47
24:AY:110:LEU:CD1	24:AY:268:MET:HE2	2.35	0.47
24:AY:296:PHE:O	24:AY:380:THR:HA	2.14	0.47
24:AY:315:VAL:HG11	24:AY:346:LEU:HD12	1.96	0.47
29:B4:37:SER:C	29:B4:39:CYS:N	2.71	0.47
32:B7:30:VAL:O	32:B7:34:ARG:HG2	2.13	0.47
34:B9:18:ARG:HG3	34:B9:18:ARG:HH11	1.78	0.47
35:BA:80:G:C2	35:BA:107:C:N3	2.82	0.47
35:BA:363(E):U:C4	35:BA:363(F):A:H2	2.32	0.47
35:BA:425:G:O2'	35:BA:426:C:H5'	2.14	0.47
35:BA:644:A:C8	35:BA:646:A:C2	3.02	0.47
35:BA:811:U:O2'	35:BA:812:C:H5''	2.14	0.47
35:BA:953:A:N6	35:BA:964:C:H42	2.08	0.47
35:BA:958:U:C6	35:BA:958:U:C3'	2.97	0.47
35:BA:1144:G:O2'	35:BA:1145:C:H5'	2.14	0.47
35:BA:1298:C:O2'	35:BA:1301:A:H1'	2.13	0.47
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.14	0.47
35:BA:1680:U:H2'	35:BA:1681:G:C8	2.50	0.47
35:BA:2459:A:N1	35:BA:2494:G:H1'	2.30	0.47
35:BA:2523:G:C1'	35:BA:2765:A:N7	2.77	0.47
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.95	0.47
35:BA:2578:G:N7	39:BE:140:SER:HB2	2.29	0.47
35:BA:2690:C:H5''	35:BA:2872:G:N2	2.29	0.47
35:BA:2705:A:C4	35:BA:2706:G:C8	3.03	0.47
35:BA:2838:G:HO2'	49:BR:45:ARG:HD3	1.77	0.47
36:BB:42:C:HO2'	36:BB:43:C:C5'	2.27	0.47
36:BB:78:A:C6	36:BB:100:A:C8	3.02	0.47
37:BC:47:LEU:HD21	37:BC:171:ILE:CD1	2.41	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:119:ARG:HH11	40:BF:119:ARG:CG	2.24	0.47
40:BF:126:VAL:CG2	40:BF:127:GLU:N	2.59	0.47
41:BG:15:VAL:HG12	41:BG:19:LEU:CD1	2.44	0.47
42:BH:44:VAL:HG13	42:BH:45:VAL:N	2.29	0.47
43:BJ:27:UNK:O	43:BJ:83:UNK:N	2.47	0.47
43:BJ:72:UNK:O	43:BJ:73:UNK:CB	2.62	0.47
45:BN:99:LEU:O	45:BN:103:VAL:N	2.36	0.47
47:BP:102:ARG:NH1	47:BP:102:ARG:HB2	2.29	0.47
49:BR:76:VAL:O	49:BR:80:PHE:HD2	1.97	0.47
50:BS:102:ALA:O	50:BS:103:GLU:C	2.57	0.47
51:BT:23:ARG:O	51:BT:25:GLY:N	2.47	0.47
51:BT:51:ARG:O	51:BT:61:PHE:CA	2.62	0.47
52:BU:27:LEU:C	52:BU:30:LYS:H	2.21	0.47
55:BX:29:TRP:CZ3	55:BX:59:VAL:HG21	2.43	0.47
57:BZ:139:VAL:HG12	57:BZ:140:ASP:H	1.79	0.47
1:AA:47:C:H5	1:AA:366:C:OP2	1.96	0.47
1:AA:123:C:H5''	1:AA:311:C:O2'	2.14	0.47
1:AA:148:G:N2	1:AA:175:C:C2	2.82	0.47
1:AA:939:G:H2'	1:AA:940:C:H6	1.78	0.47
1:AA:1048:G:OP1	14:AN:4:LYS:N	2.47	0.47
1:AA:1074:G:H2'	1:AA:1075:C:C6	2.48	0.47
1:AA:1497:G:HO2'	1:AA:1498:U:H5'	1.79	0.47
2:AB:23:ARG:O	2:AB:23:ARG:HD2	2.15	0.47
2:AB:25:ASN:HB3	2:AB:192:SER:O	2.14	0.47
2:AB:157:ARG:HB2	2:AB:157:ARG:HH11	1.79	0.47
2:AB:220:ASP:O	2:AB:223:ILE:HB	2.15	0.47
3:AC:139:GLN:NE2	3:AC:143:GLU:CD	2.65	0.47
4:AD:107:ARG:NH1	4:AD:114:ARG:NH2	2.60	0.47
4:AD:174:LEU:HD21	4:AD:185:PHE:HA	1.95	0.47
6:AF:11:ASN:HA	6:AF:86:ARG:NH1	2.30	0.47
7:AG:72:ARG:CB	7:AG:142:GLU:OE2	2.62	0.47
15:AO:69:TYR:HA	15:AO:72:ARG:HD2	1.96	0.47
17:AQ:5:VAL:CG1	17:AQ:58:GLU:HB3	2.45	0.47
22:AV:52:G:C4	22:AV:53:G:C8	3.03	0.47
24:AY:78:PRO:CB	24:AY:83:LEU:CD2	2.91	0.47
24:AY:186:TYR:CZ	24:AY:241:PHE:CB	2.95	0.47
24:AY:193:TYR:CE1	24:AY:194:GLN:O	2.68	0.47
24:AY:324:LYS:HG2	24:AY:325:TYR:N	2.29	0.47
29:B4:5:ILE:O	41:BG:67:LYS:CD	2.63	0.47
35:BA:81:G:H2'	35:BA:82:G:C8	2.50	0.47
35:BA:132:G:H2'	35:BA:133:C:C6	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:428:A:H5'	35:BA:429:A:OP2	2.14	0.47
35:BA:441:U:H1'	40:BF:46:ARG:HH21	1.79	0.47
35:BA:534:U:H5'	52:BU:42:ALA:HB1	1.96	0.47
35:BA:564:C:C2	35:BA:565:C:C6	3.01	0.47
35:BA:740:U:H2'	35:BA:741:G:H8	1.72	0.47
35:BA:779:U:C2'	35:BA:780:G:H5'	2.44	0.47
35:BA:861:A:N3	35:BA:862:G:O4'	2.48	0.47
35:BA:866:A:C2	35:BA:914:C:C6	3.02	0.47
35:BA:910:A:H2'	35:BA:911:A:C8	2.49	0.47
35:BA:1509(B):A:O2'	35:BA:1510:G:H5'	2.15	0.47
35:BA:1549:C:H5''	35:BA:1549:C:C6	2.49	0.47
35:BA:2044:C:N3	35:BA:2625:G:C2	2.82	0.47
35:BA:2186:G:C2	35:BA:2187:G:C6	3.02	0.47
35:BA:2318:G:OP2	35:BA:2318:G:N2	2.44	0.47
35:BA:2547:U:O2'	46:BO:29:ASN:HB3	2.13	0.47
35:BA:2679:A:P	39:BE:160:TYR:OH	2.73	0.47
35:BA:2756:U:O2'	35:BA:2757:A:OP2	2.27	0.47
36:BB:45:A:H2'	36:BB:45:A:N3	2.29	0.47
36:BB:107:G:O2'	36:BB:108:U:H5'	2.15	0.47
37:BC:22:ILE:HG22	37:BC:186:ALA:CB	2.43	0.47
38:BD:111:LEU:HD11	38:BD:115:GLN:CB	2.44	0.47
39:BE:172:VAL:C	39:BE:174:ASP:N	2.72	0.47
40:BF:25:PRO:HB3	40:BF:119:ARG:HG3	1.96	0.47
40:BF:37:VAL:C	40:BF:39:TRP:N	2.69	0.47
40:BF:65:TRP:CB	40:BF:66:PRO:HD2	2.44	0.47
40:BF:154:VAL:CG1	40:BF:155:LEU:N	2.75	0.47
41:BG:28:VAL:O	41:BG:29:TRP:CD2	2.67	0.47
41:BG:178:PHE:HB3	41:BG:180:PHE:HE1	1.79	0.47
42:BH:67:LEU:C	42:BH:71:LEU:HB2	2.39	0.47
42:BH:106:THR:HG21	42:BH:112:PRO:HB2	1.93	0.47
43:BJ:28:UNK:CB	43:BJ:81:UNK:O	2.63	0.47
49:BR:36:THR:OG1	49:BR:37:THR:N	2.46	0.47
53:BV:35:LEU:N	53:BV:57:VAL:O	2.38	0.47
53:BV:95:LEU:HD11	53:BV:97:LYS:NZ	2.29	0.47
54:BW:88:ARG:HB3	54:BW:92:ARG:HD2	1.96	0.47
55:BX:88:LYS:HB2	55:BX:93:GLU:OE2	2.14	0.47
56:BY:67:LEU:HD23	56:BY:67:LEU:C	2.38	0.47
57:BZ:60:GLU:C	57:BZ:61:LEU:HG	2.39	0.47
57:BZ:82:ARG:HH11	57:BZ:82:ARG:HG2	1.80	0.47
1:AA:42:G:O2'	1:AA:622:A:N1	2.47	0.47
1:AA:58:C:O5'	1:AA:58:C:H6	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:107:G:N2	1:AA:108:G:H1'	2.30	0.47
1:AA:112:G:H5'	1:AA:389:A:C4'	2.34	0.47
1:AA:292:G:C2	1:AA:309:G:C6	3.03	0.47
1:AA:306:G:H2'	1:AA:307:C:H5'	1.97	0.47
1:AA:620:C:C1'	4:AD:135:LEU:HG	2.44	0.47
1:AA:799:G:O2'	1:AA:800:G:C5'	2.63	0.47
1:AA:807:A:H2'	1:AA:808:C:C6	2.43	0.47
1:AA:858:G:N2	1:AA:870:U:OP2	2.26	0.47
1:AA:951:G:C6	1:AA:1231:G:C6	3.03	0.47
1:AA:972:C:OP2	10:AJ:57:LYS:CE	2.60	0.47
1:AA:1251:A:O2'	1:AA:1370:G:H5'	2.15	0.47
2:AB:23:ARG:O	2:AB:23:ARG:CD	2.62	0.47
3:AC:20:SER:CB	3:AC:40:ARG:HH22	2.14	0.47
4:AD:9:CYS:C	4:AD:12:CYS:HB2	2.40	0.47
4:AD:59:ARG:NH1	4:AD:59:ARG:CG	2.77	0.47
4:AD:127:THR:OG1	4:AD:149:ALA:HB2	2.14	0.47
6:AF:43:LEU:HD22	6:AF:43:LEU:H	1.79	0.47
7:AG:69:VAL:HG11	7:AG:104:LEU:HD22	1.97	0.47
8:AH:13:ILE:O	8:AH:17:THR:N	2.43	0.47
9:AI:90:PRO:C	9:AI:92:TYR:H	2.22	0.47
11:AK:85:ARG:HA	11:AK:112:THR:HA	1.95	0.47
12:AL:44:THR:HA	12:AL:51:ALA:O	2.13	0.47
13:AM:15:VAL:HG22	13:AM:41:PRO:O	2.13	0.47
15:AO:68:ARG:CD	15:AO:72:ARG:HH21	2.26	0.47
17:AQ:62:SER:HB2	17:AQ:71:PHE:HA	1.96	0.47
17:AQ:63:ARG:HG2	17:AQ:64:PRO:N	2.28	0.47
18:AR:74:ARG:N	18:AR:79:LEU:HB2	2.29	0.47
22:AV:48:C:H5'	22:AV:49:G:H5''	1.95	0.47
24:AY:401:ILE:HG12	24:AY:463:TYR:HE2	1.76	0.47
24:AY:454:LYS:HD3	24:AY:454:LYS:C	2.40	0.47
33:B8:38:GLY:HA2	33:B8:41:ILE:CG2	2.43	0.47
35:BA:65:C:O2'	35:BA:66:C:H5'	2.15	0.47
35:BA:406:G:H2'	35:BA:407:G:H8	1.78	0.47
35:BA:482:A:H4'	56:BY:47:LYS:CD	2.45	0.47
35:BA:852:G:C6	35:BA:926:A:C6	3.03	0.47
35:BA:874:G:H2'	35:BA:875:G:C8	2.50	0.47
35:BA:974:G:C6	35:BA:1186:G:O6	2.67	0.47
35:BA:1308:A:C2	35:BA:1611:C:H1'	2.49	0.47
35:BA:1509(B):A:C2'	35:BA:1510:G:H5'	2.45	0.47
35:BA:1791:A:N1	35:BA:1829:A:O4'	2.47	0.47
35:BA:1794:U:C2	35:BA:1795:C:C5	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1798:U:OP1	38:BD:260:ARG:HB3	2.15	0.47
35:BA:1847:A:N6	35:BA:1893:C:N4	2.61	0.47
35:BA:2115:G:N2	35:BA:2119:A:P	2.82	0.47
35:BA:2140:C:H2'	35:BA:2141:G:H8	1.78	0.47
35:BA:2265:U:H2'	35:BA:2266:A:H8	1.74	0.47
35:BA:2282:G:H4'	35:BA:2283:C:OP2	2.14	0.47
35:BA:2435:A:C6	35:BA:2436:G:N7	2.82	0.47
35:BA:2453:A:H3'	35:BA:2453:A:H8	1.78	0.47
35:BA:2712:U:OP1	35:BA:2714:G:H4'	2.13	0.47
35:BA:2715:C:O2'	35:BA:2716:U:C5'	2.62	0.47
35:BA:2820:A:O2'	39:BE:191:PRO:HG3	2.13	0.47
36:BB:42:C:O2'	36:BB:43:C:O5'	2.29	0.47
36:BB:71:C:C2'	36:BB:72:G:H5'	2.45	0.47
37:BC:45:ALA:CB	37:BC:171:ILE:HG22	2.41	0.47
38:BD:16:MET:O	38:BD:17:THR:OG1	2.27	0.47
38:BD:29:PRO:HG2	38:BD:29:PRO:O	2.15	0.47
39:BE:13:ARG:CA	39:BE:22:PRO:HA	2.45	0.47
39:BE:105:THR:HG23	39:BE:166:THR:OG1	2.15	0.47
40:BF:65:TRP:CB	40:BF:66:PRO:CD	2.92	0.47
40:BF:66:PRO:O	40:BF:68:LYS:N	2.47	0.47
40:BF:111:ALA:CB	40:BF:206:ILE:HG21	2.30	0.47
41:BG:76:SER:HB3	41:BG:83:ARG:CB	2.42	0.47
42:BH:109:PHE:H	42:BH:152:ARG:HH12	1.62	0.47
44:BK:82:UNK:O	44:BK:83:UNK:C	2.61	0.47
45:BN:34:LEU:CD1	45:BN:52:VAL:HG23	2.39	0.47
46:BO:6:THR:CG2	46:BO:7:TYR:H	2.27	0.47
48:BQ:21:THR:CG2	48:BQ:23:GLY:O	2.62	0.47
48:BQ:55:VAL:HA	48:BQ:58:PHE:CD1	2.47	0.47
51:BT:24:PRO:HA	51:BT:49:VAL:HG13	1.96	0.47
51:BT:28:VAL:HG13	51:BT:46:GLU:HA	1.95	0.47
51:BT:101:PHE:CE1	51:BT:102:ILE:HG22	2.49	0.47
51:BT:111:ARG:HH11	51:BT:111:ARG:HG2	1.80	0.47
52:BU:59:ARG:O	52:BU:61:TRP:N	2.47	0.47
53:BV:2:PHE:CE1	53:BV:13:ARG:NH1	2.82	0.47
1:AA:13:U:O2'	1:AA:14:U:H5'	2.13	0.47
1:AA:64:G:H5''	1:AA:65:U:OP1	2.15	0.47
1:AA:541:G:O2'	1:AA:542:G:H5'	2.15	0.47
1:AA:597:G:C6	1:AA:644:G:C6	3.03	0.47
1:AA:799:G:O2'	1:AA:800:G:H5'	2.14	0.47
1:AA:918:A:H2'	1:AA:919:A:H8	1.69	0.47
1:AA:1055:A:C2	1:AA:1206:G:HI'	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1152:A:C2	1:AA:1153:C:C4	3.03	0.47
1:AA:1321:C:H5''	1:AA:1321:C:H6	1.79	0.47
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.45	0.47
1:AA:1394:A:N6	1:AA:1500:A:O2'	2.47	0.47
1:AA:1418:A:N7	1:AA:1419:G:H1'	2.30	0.47
1:AA:1426:C:H2'	1:AA:1427:U:H6	1.78	0.47
1:AA:1495:U:H2'	1:AA:1496:C:C5'	2.37	0.47
2:AB:42:ILE:HD12	2:AB:202:PRO:C	2.39	0.47
2:AB:97:TRP:CZ3	2:AB:172:ILE:HG22	2.46	0.47
2:AB:180:LEU:O	2:AB:182:ILE:N	2.48	0.47
3:AC:142:MET:O	3:AC:145:GLY:N	2.47	0.47
4:AD:89:THR:CA	4:AD:92:VAL:HB	2.35	0.47
5:AE:41:VAL:CG2	5:AE:67:VAL:CG1	2.90	0.47
6:AF:15:ASP:OD1	6:AF:18:GLN:NE2	2.47	0.47
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.14	0.47
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.78	0.47
15:AO:68:ARG:HG3	15:AO:72:ARG:NE	2.28	0.47
16:AP:72:ARG:NE	16:AP:73:LEU:HD21	2.29	0.47
20:AT:10:LEU:C	20:AT:12:ALA:N	2.72	0.47
22:AV:33:U:C6	22:AV:33:U:H3'	2.49	0.47
22:AV:50:U:H3'	22:AV:51:C:C5	2.49	0.47
27:B2:71:ASN:O	27:B2:72:ALA:HB2	2.14	0.47
31:B6:7:ILE:CG2	31:B6:27:LYS:NZ	2.78	0.47
35:BA:244:A:H4'	47:BP:74:GLU:HB2	1.97	0.47
35:BA:669:G:H5''	35:BA:670:A:OP2	2.14	0.47
35:BA:777:A:O2'	35:BA:778:G:H5'	2.13	0.47
35:BA:920:G:N2	35:BA:921:G:C4	2.83	0.47
35:BA:962:G:H21	35:BA:963:U:H1'	1.76	0.47
35:BA:1011:G:HO2'	35:BA:1013:C:H6	1.62	0.47
35:BA:1068:G:OP2	44:BK:22:UNK:C	2.63	0.47
35:BA:1252:G:C1'	52:BU:33:ARG:HD3	2.44	0.47
35:BA:1388:G:C4	35:BA:1400:G:N2	2.82	0.47
35:BA:1662:C:O2'	35:BA:2687:U:H5''	2.15	0.47
35:BA:1941:C:C4	35:BA:1942:C:C4	3.02	0.47
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.50	0.47
35:BA:2270:G:H2'	35:BA:2271:G:O4'	2.15	0.47
35:BA:2308:G:H2'	35:BA:2309:A:C8	2.50	0.47
35:BA:2439:A:H8	35:BA:2439:A:H5''	1.79	0.47
35:BA:2464:C:N4	35:BA:2487:G:C6	2.83	0.47
35:BA:2592:G:N1	35:BA:2603:G:C6	2.83	0.47
35:BA:2612:C:H2'	35:BA:2613:U:H5'	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2619:C:H4'	39:BE:151:TYR:O	2.14	0.47
35:BA:2845:G:H2'	35:BA:2846:G:H8	1.76	0.47
36:BB:73:A:H2'	36:BB:74:U:C5'	2.44	0.47
37:BC:42:GLU:HG2	37:BC:44:HIS:NE2	2.30	0.47
38:BD:35:LYS:O	38:BD:62:TYR:O	2.32	0.47
38:BD:267:SER:HB3	38:BD:270:ILE:HD11	1.97	0.47
39:BE:48:GLN:NE2	39:BE:64:LYS:NZ	2.62	0.47
41:BG:19:LEU:O	41:BG:20:ILE:C	2.57	0.47
45:BN:87:LEU:O	45:BN:90:MET:HB2	2.15	0.47
49:BR:4:LEU:HD12	49:BR:7:GLY:HA2	1.97	0.47
49:BR:18:LEU:HD13	49:BR:18:LEU:C	2.40	0.47
51:BT:16:ARG:HH12	51:BT:19:LEU:CG	2.25	0.47
51:BT:106:SER:C	51:BT:107:ASP:OD1	2.57	0.47
52:BU:63:VAL:O	52:BU:64:ARG:C	2.57	0.47
52:BU:112:ARG:NH2	53:BV:46:VAL:HG21	2.30	0.47
53:BV:21:ARG:HG2	53:BV:91:TYR:CD1	2.50	0.47
57:BZ:63:ASP:C	57:BZ:65:GLN:N	2.70	0.47
57:BZ:127:LYS:NZ	57:BZ:127:LYS:CB	2.78	0.47
57:BZ:177:PRO:C	57:BZ:178:GLU:HG2	2.40	0.47
1:AA:39:G:C2'	1:AA:40:C:H5'	2.44	0.47
1:AA:139:G:H2'	1:AA:140:A:H8	1.79	0.47
1:AA:163:C:H2'	1:AA:164:U:C5	2.48	0.47
1:AA:279:A:O2'	17:AQ:95:TYR:HE1	1.97	0.47
1:AA:344:A:H5''	1:AA:345:C:C5	2.48	0.47
1:AA:393:A:H5'	1:AA:483:C:O2'	2.15	0.47
1:AA:613:C:C2	1:AA:628:G:N2	2.82	0.47
1:AA:773:G:C6	1:AA:807:A:N6	2.83	0.47
1:AA:796:C:C4	1:AA:797:C:H5	2.32	0.47
1:AA:858:G:C6	1:AA:869:G:C8	3.02	0.47
1:AA:896:C:H2'	1:AA:897:C:C5'	2.44	0.47
1:AA:938:A:O3'	7:AG:95:ARG:NH1	2.47	0.47
1:AA:954:G:H4'	13:AM:120:LYS:HD3	1.97	0.47
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.43	0.47
1:AA:979:C:O2'	14:AN:19:ARG:NH2	2.47	0.47
1:AA:986:A:C6	1:AA:1220:G:C6	3.03	0.47
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.15	0.47
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.29	0.47
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.49	0.47
1:AA:1292:U:OP2	7:AG:41:ARG:NH2	2.48	0.47
1:AA:1305:G:OP1	21:AU:2:GLY:CA	2.63	0.47
1:AA:1306:A:C5	1:AA:1307:U:C5	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1452:C:H5'	1:AA:1456:G:C6	2.49	0.47
2:AB:106:LYS:C	2:AB:109:SER:HB2	2.40	0.47
2:AB:165:VAL:CG2	2:AB:166:ASP:H	2.26	0.47
2:AB:189:ASP:HB3	2:AB:205:ASP:OD2	2.14	0.47
3:AC:119:ARG:O	3:AC:122:GLU:HB2	2.15	0.47
3:AC:120:VAL:C	3:AC:122:GLU:N	2.73	0.47
3:AC:165:THR:O	3:AC:165:THR:CG2	2.62	0.47
4:AD:11:LEU:HD13	4:AD:66:ARG:CZ	2.44	0.47
4:AD:64:LEU:CD2	4:AD:203:VAL:HG21	2.44	0.47
4:AD:188:LEU:O	4:AD:189:PRO:O	2.31	0.47
5:AE:12:LEU:CD2	5:AE:13:ILE:N	2.65	0.47
5:AE:18:ARG:HG3	5:AE:25:ARG:O	2.14	0.47
5:AE:76:ILE:HG13	5:AE:77:PRO:CD	2.44	0.47
7:AG:40:ALA:O	7:AG:43:PHE:N	2.47	0.47
7:AG:41:ARG:O	7:AG:45:ASP:CG	2.57	0.47
8:AH:14:ARG:HG2	8:AH:18:ARG:NH2	2.21	0.47
8:AH:49:GLU:O	8:AH:49:GLU:HG3	2.14	0.47
8:AH:63:LEU:HD22	8:AH:63:LEU:H	1.75	0.47
8:AH:111:ILE:O	8:AH:112:LEU:HB3	2.15	0.47
10:AJ:78:ASN:O	10:AJ:80:LYS:N	2.46	0.47
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.15	0.47
11:AK:58:PRO:O	11:AK:59:TYR:C	2.56	0.47
12:AL:6:THR:OG1	12:AL:9:GLN:NE2	2.37	0.47
12:AL:32:PHE:O	12:AL:33:ARG:HB2	2.15	0.47
12:AL:89:ARG:CD	12:AL:91:LYS:N	2.78	0.47
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.30	0.47
14:AN:14:PRO:O	14:AN:15:LYS:C	2.57	0.47
14:AN:57:ARG:HG2	14:AN:57:ARG:NH1	2.29	0.47
16:AP:67:THR:CG2	16:AP:68:ASP:H	2.20	0.47
18:AR:34:TYR:CD1	18:AR:34:TYR:O	2.67	0.47
19:AS:15:LEU:CD1	19:AS:19:VAL:HG21	2.45	0.47
19:AS:30:LEU:HD21	19:AS:32:LYS:HZ3	1.79	0.47
22:AV:21:A:C6	22:AV:46:G:C5	3.02	0.47
22:AV:48:C:P	22:AV:48:C:C6	3.08	0.47
23:AX:16:A:H2'	23:AX:17:U:C6	2.49	0.47
24:AY:7:LEU:CD2	24:AY:292:SER:HB3	2.44	0.47
24:AY:116:ALA:O	24:AY:149:ARG:HD2	2.13	0.47
24:AY:168:PRO:HG2	24:AY:171:TRP:CH2	2.48	0.47
24:AY:175:CYS:HA	24:AY:179:PHE:HD1	1.80	0.47
24:AY:404:LYS:O	24:AY:405:ASP:CB	2.57	0.47
24:AY:431:ILE:HD11	24:AY:493:LEU:CB	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:443:VAL:O	24:AY:444:LEU:C	2.58	0.47
24:AY:498:GLY:O	24:AY:499:ASP:OD1	2.32	0.47
25:B0:4:LYS:HD3	35:BA:2253:G:O6	2.15	0.47
25:B0:69:PHE:N	25:B0:69:PHE:HD1	2.13	0.47
26:B1:5:CYS:O	26:B1:9:GLY:HA2	2.15	0.47
27:B2:25:VAL:HG22	27:B2:60:LEU:HB3	1.96	0.47
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.83	0.47
30:B5:16:ARG:CG	30:B5:17:ASP:N	2.73	0.47
30:B5:44:THR:CG2	30:B5:45:VAL:N	2.78	0.47
31:B6:35:GLU:HB2	31:B6:51:GLU:OE1	2.14	0.47
32:B7:1:MET:SD	35:BA:752:A:O3'	2.73	0.47
33:B8:6:THR:CG2	35:BA:243:U:OP1	2.62	0.47
34:B9:19:ARG:NH1	35:BA:2755:C:H3'	2.29	0.47
35:BA:120:U:C6	35:BA:149:A:C2	3.02	0.47
35:BA:225:A:O2'	35:BA:226:G:H5'	2.15	0.47
35:BA:354:G:C2	35:BA:355:G:C4	3.02	0.47
35:BA:472:A:H5'	35:BA:472:A:C8	2.46	0.47
35:BA:495:G:H1'	54:BW:57:ASN:CG	2.39	0.47
35:BA:564:C:OP1	53:BV:77:ALA:HB2	2.15	0.47
35:BA:644:A:C2	35:BA:2369:A:O2'	2.65	0.47
35:BA:661:C:H2'	35:BA:662:G:H8	1.76	0.47
35:BA:669:G:N1	35:BA:801:G:O6	2.48	0.47
35:BA:671:C:H42	35:BA:809:G:H1	1.61	0.47
35:BA:766:C:H2'	35:BA:767:U:O4'	2.14	0.47
35:BA:830:G:C4	35:BA:2448:A:C6	3.03	0.47
35:BA:906:G:H5'	35:BA:907:U:OP2	2.14	0.47
35:BA:948:G:C6	35:BA:949:C:N4	2.82	0.47
35:BA:986:C:H2'	35:BA:987:G:H5'	1.97	0.47
35:BA:987:G:H2'	35:BA:988:A:C8	2.49	0.47
35:BA:998:C:H2'	35:BA:999:U:O5'	2.14	0.47
35:BA:1252:G:O4'	52:BU:33:ARG:CD	2.55	0.47
35:BA:1260:G:C4	35:BA:1261:C:C5	3.02	0.47
35:BA:1270:C:O2'	35:BA:1648:C:OP2	2.25	0.47
35:BA:1298:C:O4'	35:BA:1302:A:N1	2.47	0.47
35:BA:1304:C:C2	35:BA:1305:C:C5	3.03	0.47
35:BA:1380:G:H2'	35:BA:1381:G:C8	2.49	0.47
35:BA:1423:G:H5''	35:BA:1492:G:O2'	2.14	0.47
35:BA:1452:A:HO2'	35:BA:1453:U:H6	1.61	0.47
35:BA:1470:G:N2	35:BA:1523:U:C4	2.83	0.47
35:BA:1567:A:C5	38:BD:84:TYR:CD2	3.02	0.47
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1800:C:OP1	38:BD:266:SER:CB	2.63	0.47
35:BA:1880:C:H2'	35:BA:1881:C:C6	2.50	0.47
35:BA:2010:G:H5''	54:BW:42:ARG:HB2	1.96	0.47
35:BA:2263:C:O2'	35:BA:2264:C:H5'	2.14	0.47
35:BA:2325:G:C4	35:BA:2326:C:C5	3.02	0.47
35:BA:2371:G:N2	35:BA:2372:G:C4	2.83	0.47
35:BA:2450:A:C2	35:BA:2451:A:N9	2.83	0.47
35:BA:2479:G:OP1	35:BA:2537:U:H1'	2.15	0.47
35:BA:2498:C:O2'	35:BA:2499:C:H5''	2.14	0.47
35:BA:2553:G:N3	35:BA:2583:G:H1'	2.30	0.47
35:BA:2578:G:H2'	35:BA:2579:C:C6	2.50	0.47
35:BA:2580:U:H4'	39:BE:130:GLY:HA3	1.96	0.47
35:BA:2712:U:HO2'	35:BA:2712(A):A:H3'	1.79	0.47
35:BA:2744:G:H21	42:BH:143:GLN:CD	2.22	0.47
35:BA:2788:C:H4'	35:BA:2810:A:O4'	2.15	0.47
36:BB:16:G:O2'	36:BB:17:C:O5'	2.32	0.47
36:BB:73:A:O2'	36:BB:74:U:H5'	2.15	0.47
37:BC:37:PHE:HE1	37:BC:217:THR:OG1	1.97	0.47
37:BC:90:GLY:O	37:BC:153:ILE:HG22	2.14	0.47
38:BD:11:PRO:C	38:BD:13:ARG:H	2.22	0.47
38:BD:80:ALA:HB1	38:BD:96:HIS:HE2	1.80	0.47
38:BD:81:ALA:HA	38:BD:113:VAL:CG1	2.45	0.47
39:BE:28:ALA:O	39:BE:29:GLY:O	2.33	0.47
39:BE:184:VAL:C	39:BE:186:GLY:N	2.72	0.47
40:BF:157:VAL:HG12	40:BF:176:LEU:HB2	1.96	0.47
41:BG:12:TYR:O	41:BG:16:ARG:HB2	2.14	0.47
41:BG:56:ALA:CB	41:BG:153:ARG:HH21	2.28	0.47
41:BG:87:PRO:O	41:BG:88:ILE:HG13	2.13	0.47
41:BG:139:LEU:C	41:BG:141:PHE:N	2.70	0.47
41:BG:178:PHE:HA	41:BG:179:PRO:HD3	1.56	0.47
42:BH:29:PRO:C	42:BH:31:GLY:H	2.21	0.47
42:BH:66:GLY:HA2	42:BH:69:ARG:HB2	1.96	0.47
42:BH:97:ARG:O	42:BH:104:GLU:HG3	2.15	0.47
45:BN:96:GLU:O	45:BN:100:GLU:HG3	2.15	0.47
45:BN:99:LEU:CD1	45:BN:103:VAL:HG23	2.44	0.47
45:BN:100:GLU:O	45:BN:117:PHE:HE1	1.98	0.47
46:BO:18:LYS:HB2	46:BO:45:GLU:HB3	1.95	0.47
48:BQ:62:GLY:HA3	48:BQ:109:VAL:CG2	2.45	0.47
52:BU:47:TYR:O	52:BU:47:TYR:CD1	2.68	0.47
52:BU:104:GLN:HA	52:BU:107:ALA:HB3	1.97	0.47
52:BU:114:LYS:CA	52:BU:117:GLN:HB2	2.43	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:20:VAL:HG23	54:BW:21:VAL:N	2.29	0.47
54:BW:33:ARG:HG2	54:BW:52:GLU:OE2	2.15	0.47
56:BY:46:LYS:HB3	56:BY:62:GLU:CG	2.45	0.47
56:BY:50:ARG:HD3	56:BY:50:ARG:HA	1.49	0.47
57:BZ:149:SER:HB2	57:BZ:173:ALA:HB2	1.97	0.47
1:AA:403:C:O2'	1:AA:404:U:H5'	2.15	0.47
1:AA:711:G:O2'	1:AA:712:A:H5'	2.15	0.47
1:AA:809:G:C6	1:AA:810:C:C5	3.03	0.47
1:AA:1028:C:O2	1:AA:1034:G:N3	2.48	0.47
1:AA:1035:A:C4	1:AA:1036:G:N7	2.83	0.47
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.80	0.47
1:AA:1202:G:N2	14:AN:42:ILE:HG22	2.29	0.47
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.49	0.47
2:AB:14:GLY:C	2:AB:15:VAL:CG2	2.83	0.47
2:AB:211:ILE:O	2:AB:212:GLN:C	2.58	0.47
3:AC:11:ARG:HH21	3:AC:182:ILE:HD12	1.79	0.47
3:AC:92:ALA:O	3:AC:93:LYS:C	2.58	0.47
3:AC:122:GLU:O	3:AC:123:GLN:C	2.57	0.47
4:AD:82:ALA:CB	4:AD:92:VAL:HG12	2.45	0.47
5:AE:77:PRO:HG3	5:AE:142:LEU:HD22	1.92	0.47
12:AL:126:LYS:HB3	12:AL:126:LYS:HE2	1.71	0.47
16:AP:72:ARG:HG2	16:AP:73:LEU:CG	2.43	0.47
18:AR:68:LYS:O	18:AR:71:LYS:HB2	2.14	0.47
19:AS:11:VAL:HA	19:AS:38:SER:HB3	1.96	0.47
22:AV:11:A:H61	22:AV:24:U:H3	1.62	0.47
24:AY:207:VAL:O	24:AY:207:VAL:CG1	2.62	0.47
24:AY:207:VAL:HG11	24:AY:215:LEU:CA	2.45	0.47
24:AY:246:PHE:CE2	24:AY:247:LEU:CD2	2.96	0.47
24:AY:248:ALA:O	24:AY:249:GLY:O	2.33	0.47
30:B5:8:LYS:HB2	35:BA:2054:A:N1	2.30	0.47
32:B7:5:TRP:CZ3	35:BA:464:U:C4'	2.98	0.47
33:B8:6:THR:HG21	35:BA:243:U:OP1	2.14	0.47
33:B8:23:VAL:HG13	33:B8:47:LYS:H	1.80	0.47
34:B9:11:CYS:SG	34:B9:32:HIS:CE1	3.08	0.47
35:BA:7:G:HO2'	35:BA:8:A:H5'	1.80	0.47
35:BA:41:C:H2'	35:BA:42:G:H8	1.80	0.47
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	2.15	0.47
35:BA:382:G:H2'	35:BA:383:U:O4'	2.15	0.47
35:BA:637:A:H4'	35:BA:638:G:O5'	2.14	0.47
35:BA:654(M):C:H2'	35:BA:654(N):G:N7	2.29	0.47
35:BA:654(T):C:O2'	35:BA:654(U):A:H5'	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:662:G:H5''	47:BP:18:ARG:O	2.15	0.47
35:BA:717:G:N2	35:BA:718:A:H1'	2.29	0.47
35:BA:751:A:O4'	54:BW:90:ARG:HA	2.15	0.47
35:BA:873:G:H8	35:BA:873:G:O5'	1.98	0.47
35:BA:886:C:O2'	35:BA:887:A:P	2.71	0.47
35:BA:887:A:O2'	35:BA:888:C:H5''	2.13	0.47
35:BA:918:A:C2	35:BA:919:G:H1'	2.49	0.47
35:BA:1011:G:O2'	35:BA:1013:C:H6	1.97	0.47
35:BA:1071:G:H1	35:BA:1093:G:H22	1.63	0.47
35:BA:1106:G:H2'	35:BA:1107:G:H5'	1.96	0.47
35:BA:1198:U:H5'	52:BU:9:VAL:CG1	2.45	0.47
35:BA:1288:U:C2	35:BA:1327:C:C2	3.03	0.47
35:BA:1667:G:O2'	35:BA:1991:U:O4	2.25	0.47
35:BA:1670:C:O5'	35:BA:1670:C:C6	2.67	0.47
35:BA:2051:A:H2'	35:BA:2578:G:OP1	2.14	0.47
35:BA:2189:U:H2'	35:BA:2190:G:C4'	2.44	0.47
35:BA:2598:A:C8	35:BA:2599:G:C1'	2.98	0.47
35:BA:2693:A:C2	35:BA:2717:G:C2	3.02	0.47
35:BA:2815:C:H2'	35:BA:2816:C:O4'	2.14	0.47
35:BA:2847:U:OP1	51:BT:98:LYS:HD3	2.15	0.47
36:BB:96:U:H2'	36:BB:97:G:H8	1.80	0.47
36:BB:118:G:C2	36:BB:119:G:N7	2.83	0.47
38:BD:183:ARG:CG	38:BD:270:ILE:CG2	2.91	0.47
38:BD:211:ARG:O	38:BD:212:SER:C	2.58	0.47
39:BE:98:PRO:CD	39:BE:175:VAL:HG12	2.43	0.47
40:BF:31:HIS:CG	47:BP:13:ASN:OD1	2.67	0.47
40:BF:185:ASP:CA	40:BF:188:ARG:HG2	2.43	0.47
41:BG:84:LYS:O	41:BG:85:GLY:O	2.32	0.47
41:BG:157:ILE:HG22	41:BG:159:VAL:HG12	1.96	0.47
42:BH:54:ARG:O	42:BH:54:ARG:HD2	2.14	0.47
45:BN:97:ARG:O	45:BN:100:GLU:N	2.48	0.47
45:BN:120:LEU:HD13	45:BN:121:LYS:N	2.30	0.47
46:BO:98:VAL:O	46:BO:98:VAL:HG22	2.12	0.47
46:BO:104:ARG:CZ	46:BO:104:ARG:HB3	2.45	0.47
47:BP:77:ARG:O	47:BP:77:ARG:HG3	2.12	0.47
47:BP:85:LEU:C	47:BP:88:LEU:H	2.23	0.47
48:BQ:44:ALA:O	48:BQ:47:ILE:N	2.48	0.47
49:BR:21:TYR:O	49:BR:25:ALA:CB	2.61	0.47
49:BR:97:VAL:C	49:BR:98:LEU:HG	2.40	0.47
51:BT:107:ASP:O	51:BT:110:ILE:HB	2.15	0.47
53:BV:23:GLU:O	53:BV:24:LYS:C	2.57	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:63:ASP:CB	57:BZ:65:GLN:NE2	2.78	0.47
1:AA:39:G:O2'	1:AA:40:C:H5'	2.15	0.47
1:AA:70:G:O2'	1:AA:71:C:H5'	2.15	0.47
1:AA:448:A:O2'	1:AA:449:C:H5'	2.15	0.47
1:AA:543:C:OP2	4:AD:10:ARG:NH1	2.48	0.47
1:AA:740:U:C4'	15:AO:42:HIS:ND1	2.78	0.47
1:AA:897:C:C4	1:AA:898:G:N7	2.83	0.47
1:AA:1001(A):G:H2'	1:AA:1002:G:C8	2.49	0.47
1:AA:1018:C:H2'	1:AA:1019:C:C6	2.50	0.47
1:AA:1348:U:C5	1:AA:1373:G:N2	2.83	0.47
2:AB:127:ILE:HG23	2:AB:135:GLN:OE1	2.14	0.47
3:AC:121:ALA:CB	3:AC:187:ALA:HB1	2.44	0.47
4:AD:65:ARG:HB2	4:AD:75:PHE:CG	2.50	0.47
4:AD:165:MET:HE3	4:AD:176:LEU:HD23	1.97	0.47
5:AE:24:ARG:CZ	5:AE:24:ARG:HB3	2.45	0.47
5:AE:142:LEU:HD23	5:AE:142:LEU:HA	1.77	0.47
6:AF:2:ARG:HD3	6:AF:92:LYS:HE2	1.96	0.47
9:AI:114:TYR:CZ	10:AJ:59:SER:HA	2.50	0.47
12:AL:75:HIS:CG	12:AL:76:ASN:H	2.32	0.47
14:AN:59:ALA:O	14:AN:60:SER:HB3	2.14	0.47
15:AO:39:LEU:O	15:AO:43:LEU:HB2	2.14	0.47
17:AQ:83:ASP:CG	17:AQ:84:LEU:H	2.20	0.47
19:AS:13:ASP:C	19:AS:15:LEU:H	2.22	0.47
24:AY:26:LYS:CD	24:AY:89:THR:O	2.62	0.47
24:AY:65:GLN:O	24:AY:66:ARG:C	2.58	0.47
24:AY:135:THR:O	24:AY:136:PRO:C	2.58	0.47
24:AY:305:ALA:HA	24:AY:422:GLU:CB	2.44	0.47
24:AY:513:LEU:CD1	24:AY:517:ARG:HH21	2.22	0.47
25:B0:69:PHE:CD1	25:B0:69:PHE:N	2.83	0.47
28:B3:41:PRO:HA	28:B3:44:ARG:HB3	1.96	0.47
29:B4:9:LEU:HD22	29:B4:26:SER:O	2.15	0.47
30:B5:7:PRO:HA	35:BA:2615:U:C5	2.50	0.47
31:B6:17:LYS:O	31:B6:18:ARG:HB3	2.14	0.47
31:B6:25:LYS:NZ	35:BA:2285:C:N4	2.63	0.47
31:B6:40:CYS:HA	31:B6:41:PRO:HD3	1.57	0.47
35:BA:104:U:C2'	35:BA:105:C:H5'	2.43	0.47
35:BA:605:C:C2'	35:BA:606:U:H5'	2.45	0.47
35:BA:1909:C:N4	35:BA:1922:G:N1	2.62	0.47
35:BA:2052:G:H1'	39:BE:149:ARG:O	2.15	0.47
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.30	0.47
35:BA:2305:A:H2'	35:BA:2306:C:O5'	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2309:A:C2'	35:BA:2310:A:H5''	2.44	0.47
35:BA:2594:C:C2	35:BA:2595:G:C8	3.03	0.47
35:BA:2752:C:H5'	35:BA:2753:A:OP2	2.15	0.47
36:BB:29:A:HO2'	36:BB:30:C:H5'	1.80	0.47
37:BC:39:GLU:CG	37:BC:217:THR:OG1	2.63	0.47
38:BD:34:VAL:HG11	38:BD:102:LYS:O	2.15	0.47
38:BD:121:PRO:C	38:BD:123:ALA:N	2.71	0.47
38:BD:143:HIS:O	38:BD:192:THR:CG2	2.62	0.47
39:BE:37:ARG:NH1	39:BE:42:ASP:OD1	2.47	0.47
39:BE:195:LEU:HD12	39:BE:196:VAL:H	1.79	0.47
42:BH:150:ALA:O	42:BH:151:ILE:C	2.57	0.47
46:BO:59:LYS:O	46:BO:87:ILE:O	2.32	0.47
47:BP:16:ARG:HH11	47:BP:16:ARG:CB	2.26	0.47
47:BP:66:GLY:O	47:BP:67:MET:CB	2.61	0.47
47:BP:75:ILE:H	47:BP:75:ILE:HD12	1.79	0.47
48:BQ:70:PRO:O	48:BQ:71:ASP:HB3	2.15	0.47
48:BQ:72:LYS:O	48:BQ:93:TYR:HD1	1.98	0.47
53:BV:43:GLU:O	53:BV:44:LYS:CB	2.62	0.47
56:BY:88:LYS:C	56:BY:90:LEU:H	2.23	0.47
1:AA:247:G:OP2	17:AQ:99:SER:CB	2.63	0.47
1:AA:942:G:H2'	1:AA:942:G:N3	2.29	0.47
1:AA:961:U:OP2	1:AA:1223:C:C1'	2.63	0.47
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.63	0.47
1:AA:1232:U:O5'	1:AA:1232:U:H6	1.98	0.47
1:AA:1326:C:O2'	1:AA:1327:C:O5'	2.33	0.47
1:AA:1379:G:N2	1:AA:1380:U:C2	2.82	0.47
1:AA:1413:A:C2	1:AA:1414:U:N1	2.83	0.47
2:AB:58:ILE:HG22	2:AB:222:ILE:HD12	1.96	0.47
2:AB:84:GLU:OE1	2:AB:219:VAL:HG21	2.14	0.47
2:AB:115:LEU:HB2	2:AB:145:LEU:HD11	1.94	0.47
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.14	0.47
4:AD:60:GLU:CG	4:AD:202:LEU:HD12	2.39	0.47
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.36	0.47
10:AJ:27:ALA:C	10:AJ:30:SER:HB3	2.40	0.47
12:AL:36:VAL:N	12:AL:58:VAL:HG13	2.30	0.47
14:AN:26:ARG:NH1	14:AN:47:LEU:CD2	2.78	0.47
15:AO:80:ALA:O	15:AO:83:GLU:HB2	2.15	0.47
16:AP:4:ILE:HD11	16:AP:64:ALA:HB1	1.96	0.47
20:AT:89:ARG:C	20:AT:91:LEU:H	2.23	0.47
24:AY:111:MET:HE2	24:AY:111:MET:HB3	1.86	0.47
24:AY:527:ARG:HD2	24:AY:528:GLU:C	2.40	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:36:ILE:CD1	35:BA:2355:C:O4'	2.61	0.47
27:B2:51:ARG:O	27:B2:52:ASP:C	2.57	0.47
33:B8:52:LYS:C	33:B8:56:GLU:OE1	2.58	0.47
33:B8:59:LYS:HB2	33:B8:59:LYS:HE3	1.71	0.47
35:BA:19:C:OP1	52:BU:22:LYS:HD2	2.15	0.47
35:BA:176:G:C6	35:BA:177:G:C6	3.03	0.47
35:BA:251:A:H2'	35:BA:252:G:H5'	1.96	0.47
35:BA:259:G:H1'	35:BA:621:A:O2'	2.15	0.47
35:BA:447:A:H4'	35:BA:449:A:N7	2.29	0.47
35:BA:636:G:N7	47:BP:113:LYS:NZ	2.61	0.47
35:BA:1164:G:N2	35:BA:1165:U:H1'	2.30	0.47
35:BA:1255:U:C5	40:BF:73:ALA:HA	2.50	0.47
35:BA:1256:G:O2'	40:BF:82:ILE:HD11	2.15	0.47
35:BA:1257:C:H1'	40:BF:83:PHE:HA	1.97	0.47
35:BA:1330:C:O2	35:BA:1330:C:H2'	2.15	0.47
35:BA:1447:G:C4'	35:BA:1545:A:H4'	2.44	0.47
35:BA:1707:G:H2'	35:BA:1708:C:O4'	2.15	0.47
35:BA:1896:G:C6	35:BA:1897:G:N7	2.83	0.47
35:BA:2110:G:N2	35:BA:2178:C:H5	2.12	0.47
35:BA:2260:C:O2'	35:BA:2388:A:O2'	2.32	0.47
35:BA:2508:G:C2	35:BA:2582:G:C6	3.03	0.47
35:BA:2605:U:C2	35:BA:2606:C:C5	3.02	0.47
35:BA:2867:G:C8	51:BT:23:ARG:NH1	2.83	0.47
36:BB:24:G:H2'	36:BB:56:G:O6	2.15	0.47
37:BC:51:PRO:HG2	37:BC:52:ARG:H	1.79	0.47
37:BC:142:ALA:HB1	37:BC:162:GLU:OE2	2.15	0.47
38:BD:138:VAL:HG23	38:BD:168:ARG:CZ	2.45	0.47
40:BF:7:TYR:CE2	40:BF:10:PRO:HD3	2.50	0.47
40:BF:125:LEU:HA	40:BF:194:MET:O	2.15	0.47
42:BH:106:THR:CG2	42:BH:112:PRO:CA	2.63	0.47
43:BJ:25:UNK:O	43:BJ:84:UNK:HA	2.15	0.47
45:BN:63:THR:HB	45:BN:66:LYS:HZ1	1.77	0.47
46:BO:62:VAL:HA	46:BO:84:ALA:CB	2.43	0.47
47:BP:77:ARG:HG2	47:BP:77:ARG:NH1	2.30	0.47
47:BP:79:ARG:O	47:BP:111:ARG:HB2	2.15	0.47
48:BQ:27:VAL:HG21	48:BQ:134:ARG:CG	2.41	0.47
48:BQ:141:GLN:NE2	57:BZ:72:ARG:O	2.49	0.47
50:BS:34:HIS:HB2	50:BS:36:TYR:CE1	2.47	0.47
51:BT:50:ILE:CG2	51:BT:99:LEU:O	2.54	0.47
52:BU:76:TYR:C	52:BU:76:TYR:CD1	2.93	0.47
52:BU:92:ARG:C	52:BU:94:ASN:H	2.22	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:98:LEU:O	52:BU:99:ALA:C	2.57	0.47
53:BV:75:PHE:C	53:BV:75:PHE:CD1	2.93	0.47
54:BW:5:ALA:HB1	54:BW:50:VAL:HG22	1.96	0.47
56:BY:30:VAL:CG1	56:BY:32:PRO:HB3	2.45	0.47
56:BY:45:VAL:CG1	56:BY:60:PHE:CD2	2.98	0.47
57:BZ:127:LYS:HD2	57:BZ:162:GLU:OE2	2.15	0.47
1:AA:346:G:N2	1:AA:347:G:C5	2.83	0.46
1:AA:395:C:O2'	1:AA:396:G:H5'	2.15	0.46
1:AA:408:A:C2	1:AA:435:C:N3	2.83	0.46
1:AA:589:C:C1'	1:AA:653:A:N6	2.77	0.46
1:AA:599:C:H5''	8:AH:96:GLY:HA2	1.96	0.46
1:AA:653:A:OP1	8:AH:56:LYS:NZ	2.33	0.46
1:AA:962:C:O2'	1:AA:963:G:H5'	2.15	0.46
1:AA:1060:C:P	14:AN:45:ARG:NH2	2.87	0.46
1:AA:1351:U:N3	1:AA:1352:C:C5	2.84	0.46
1:AA:1370:G:C2	1:AA:1371:G:N7	2.82	0.46
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.16	0.46
2:AB:10:LEU:C	2:AB:10:LEU:CD1	2.88	0.46
2:AB:70:PHE:N	2:AB:70:PHE:HD1	2.13	0.46
2:AB:107:THR:O	2:AB:110:GLN:N	2.39	0.46
2:AB:156:LYS:O	2:AB:157:ARG:HB2	2.15	0.46
3:AC:9:GLY:C	3:AC:12:LEU:HG	2.40	0.46
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.37	0.46
4:AD:124:GLY:C	4:AD:126:ILE:H	2.23	0.46
5:AE:63:ARG:O	5:AE:64:ARG:CB	2.63	0.46
5:AE:72:GLN:OE1	5:AE:77:PRO:HA	2.15	0.46
6:AF:37:VAL:O	6:AF:37:VAL:HG12	2.16	0.46
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.95	0.46
8:AH:35:ILE:O	8:AH:38:ILE:N	2.46	0.46
10:AJ:28:ARG:C	10:AJ:30:SER:N	2.68	0.46
11:AK:123:LYS:O	11:AK:123:LYS:CG	2.63	0.46
12:AL:109:GLY:HA2	12:AL:121:GLY:HA3	1.94	0.46
14:AN:13:THR:O	14:AN:14:PRO:O	2.33	0.46
20:AT:8:ARG:HH11	20:AT:8:ARG:HG3	1.80	0.46
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.29	0.46
22:AV:28:C:H42	22:AV:42:G:H1	1.63	0.46
22:AV:76:A:H1'	35:BA:2395:C:N3	2.30	0.46
24:AY:76:GLN:OE1	24:AY:349:MET:CA	2.63	0.46
24:AY:284:THR:O	24:AY:285:ASP:C	2.57	0.46
24:AY:287:ARG:NH2	24:AY:289:VAL:HG13	2.29	0.46
24:AY:333:GLN:C	24:AY:335:ARG:N	2.71	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:418:GLN:HA	24:AY:421:GLU:OE1	2.16	0.46
24:AY:425:VAL:HG13	24:AY:445:GLN:HB2	1.97	0.46
24:AY:474:VAL:HG13	24:AY:521:VAL:HG13	1.97	0.46
26:B1:15:ALA:CB	26:B1:42:GLN:HG3	2.45	0.46
26:B1:94:LEU:H	26:B1:94:LEU:CD1	2.28	0.46
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.97	0.46
27:B2:21:LEU:O	27:B2:24:LEU:CB	2.63	0.46
30:B5:16:ARG:HD2	30:B5:20:ARG:CZ	2.44	0.46
31:B6:5:VAL:N	31:B6:8:LYS:HB3	2.31	0.46
32:B7:11:LYS:HG2	35:BA:686:G:C4	2.50	0.46
33:B8:52:LYS:O	33:B8:54:GLU:N	2.48	0.46
33:B8:61:LEU:HD12	33:B8:62:LEU:H	1.78	0.46
35:BA:27:G:N2	35:BA:512:G:C2'	2.73	0.46
35:BA:35:G:O2'	35:BA:36:G:H5'	2.15	0.46
35:BA:107:C:H2'	35:BA:108:U:H6	1.80	0.46
35:BA:296:C:N4	35:BA:342:G:H1	2.13	0.46
35:BA:565:C:O2	35:BA:565:C:H2'	2.14	0.46
35:BA:704:G:N2	35:BA:726:G:C4	2.83	0.46
35:BA:942:G:O2'	35:BA:943:U:H5'	2.15	0.46
35:BA:953:A:C2	35:BA:965:C:O2	2.68	0.46
35:BA:974:G:O5'	35:BA:1186:G:N2	2.48	0.46
35:BA:1006:C:H2'	35:BA:1007:C:H6	1.80	0.46
35:BA:1256:G:H2'	35:BA:1257:C:H6	1.77	0.46
35:BA:1298:C:H2'	35:BA:1299:G:O4'	2.15	0.46
35:BA:1423:G:OP1	35:BA:1492:G:O2'	2.22	0.46
35:BA:1470:G:O3'	35:BA:1471:A:H8	1.98	0.46
35:BA:1829:A:H3'	35:BA:1830:C:C6	2.50	0.46
35:BA:1916:A:O2'	35:BA:1917:U:H5'	2.15	0.46
35:BA:2070:G:H2'	35:BA:2071:A:O4'	2.16	0.46
35:BA:2086:U:C2'	35:BA:2087:G:H8	2.10	0.46
35:BA:2127:G:C2	35:BA:2128:C:C4	3.03	0.46
35:BA:2206:G:N3	35:BA:2206:G:H5''	2.31	0.46
35:BA:2406:U:H3	47:BP:72:PRO:HB2	1.79	0.46
35:BA:2584:U:C2'	35:BA:2585:U:H5'	2.45	0.46
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.68	0.46
35:BA:2727:G:N2	35:BA:2728:U:O2	2.48	0.46
35:BA:2822:G:H2'	35:BA:2823:A:C5'	2.42	0.46
35:BA:2838:G:N2	35:BA:2881:C:C2	2.83	0.46
36:BB:52:A:H2'	36:BB:53:A:OP2	2.15	0.46
38:BD:24:ILE:HA	38:BD:82:ILE:CB	2.37	0.46
38:BD:183:ARG:HG3	38:BD:270:ILE:CA	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:59:TYR:CD2	40:BF:78:ILE:HG13	2.50	0.46
40:BF:114:VAL:HG21	40:BF:202:PHE:CZ	2.50	0.46
42:BH:18:GLU:CB	42:BH:25:LYS:O	2.64	0.46
42:BH:27:LYS:HG2	42:BH:32:GLU:OE1	2.15	0.46
42:BH:65:HIS:C	42:BH:67:LEU:N	2.67	0.46
44:BK:115:UNK:O	44:BK:116:UNK:CB	2.62	0.46
45:BN:99:LEU:O	45:BN:100:GLU:C	2.57	0.46
47:BP:75:ILE:HD12	47:BP:75:ILE:N	2.30	0.46
48:BQ:44:ALA:O	48:BQ:47:ILE:HB	2.15	0.46
49:BR:3:HIS:O	49:BR:5:LYS:N	2.48	0.46
49:BR:79:LEU:C	49:BR:79:LEU:HD13	2.39	0.46
49:BR:96:ARG:HH22	49:BR:117:VAL:HG23	1.80	0.46
50:BS:49:VAL:HG11	50:BS:73:LEU:CD2	2.45	0.46
50:BS:63:THR:C	50:BS:65:VAL:N	2.74	0.46
51:BT:32:TYR:HB3	51:BT:81:PRO:HB2	1.95	0.46
51:BT:106:SER:O	51:BT:107:ASP:CB	2.61	0.46
52:BU:55:ARG:O	52:BU:59:ARG:HD2	2.16	0.46
52:BU:76:TYR:CD1	52:BU:77:SER:N	2.83	0.46
54:BW:6:ILE:HG12	54:BW:104:THR:CB	2.44	0.46
56:BY:27:VAL:HG12	56:BY:28:LYS:H	1.80	0.46
57:BZ:10:ARG:HG2	57:BZ:36:LYS:HD3	1.97	0.46
57:BZ:70:LEU:HD21	57:BZ:91:LEU:HD21	1.96	0.46
1:AA:24:U:H5	1:AA:559:A:H61	1.62	0.46
1:AA:58:C:H2'	1:AA:59:A:H8	1.80	0.46
1:AA:135:C:C2'	1:AA:136:C:H5'	2.45	0.46
1:AA:321:A:O3'	1:AA:1436:U:H4'	2.15	0.46
1:AA:644:G:O2'	1:AA:645:C:H5'	2.15	0.46
1:AA:711:G:H4'	38:BD:138:VAL:HG12	1.97	0.46
1:AA:774:G:C2	1:AA:775:G:N9	2.83	0.46
1:AA:941:G:H1	1:AA:1342:C:H42	1.63	0.46
1:AA:1055:A:H8	1:AA:1055:A:O5'	1.98	0.46
1:AA:1282:C:H2'	1:AA:1283:G:C5'	2.45	0.46
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.30	0.46
1:AA:1353:G:N3	1:AA:1354:C:C5	2.83	0.46
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.46
2:AB:8:LYS:CE	2:AB:217:ARG:NH2	2.77	0.46
2:AB:75:LYS:C	2:AB:78:GLN:HG3	2.34	0.46
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.15	0.46
4:AD:133:VAL:HG12	4:AD:135:LEU:HD22	1.98	0.46
8:AH:14:ARG:HG3	8:AH:83:ILE:HG22	1.96	0.46
8:AH:119:LEU:HD23	8:AH:123:GLU:OE1	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:49:PRO:C	9:AI:51:ARG:N	2.69	0.46
15:AO:12:ILE:HG13	15:AO:31:LEU:HD13	1.97	0.46
15:AO:82:ILE:HG22	15:AO:83:GLU:N	2.30	0.46
17:AQ:77:VAL:O	17:AQ:78:GLU:HB3	2.15	0.46
20:AT:50:GLU:O	20:AT:52:ALA:N	2.48	0.46
23:AX:16:A:H2'	23:AX:17:U:O4'	2.14	0.46
24:AY:32:LYS:HZ2	24:AY:260:LEU:HD12	1.81	0.46
24:AY:123:THR:CA	24:AY:126:LEU:HD12	2.44	0.46
24:AY:145:ASP:OD1	24:AY:145:ASP:N	2.47	0.46
24:AY:232:GLU:O	24:AY:235:LYS:HB2	2.15	0.46
24:AY:307:MET:HG2	24:AY:312:ARG:C	2.39	0.46
24:AY:347:THR:HA	24:AY:365:LEU:HA	1.98	0.46
24:AY:377:ASP:OD2	24:AY:378:THR:O	2.32	0.46
24:AY:449:VAL:HG21	24:AY:463:TYR:HH	1.80	0.46
27:B2:13:ALA:C	27:B2:15:LYS:H	2.24	0.46
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.29	0.46
31:B6:28:ARG:O	31:B6:29:ASN:O	2.32	0.46
31:B6:54:ILE:HD11	35:BA:2397:G:H22	1.81	0.46
32:B7:34:ARG:HD2	32:B7:39:ARG:HG3	1.96	0.46
35:BA:199:A:N3	35:BA:2433:A:C2	2.83	0.46
35:BA:278:A:O5'	35:BA:278:A:H8	1.98	0.46
35:BA:860:U:O2	35:BA:860:U:O4'	2.32	0.46
35:BA:861:A:C2	35:BA:862:G:N9	2.84	0.46
35:BA:872:A:H2'	35:BA:873:G:H8	1.79	0.46
35:BA:1028:A:N3	35:BA:2486:G:O2'	2.44	0.46
35:BA:1069:A:N6	35:BA:1073:A:N1	2.63	0.46
35:BA:1366:A:C6	35:BA:1367:A:C5	3.04	0.46
35:BA:1619:G:H8	35:BA:1619:G:O5'	1.98	0.46
35:BA:1688:U:O2	35:BA:1701:A:N7	2.49	0.46
35:BA:1778:U:C4	35:BA:1784:A:C4	3.03	0.46
35:BA:1799:G:OP1	38:BD:260:ARG:CD	2.63	0.46
35:BA:1823:G:C5	35:BA:1824:G:N7	2.84	0.46
35:BA:1912:A:H4'	35:BA:1912:A:OP1	2.15	0.46
35:BA:2097:C:H1'	35:BA:2193:G:H22	1.80	0.46
35:BA:2171:A:O2'	35:BA:2172:U:C5	2.66	0.46
35:BA:2303:G:N2	35:BA:2313:C:N3	2.54	0.46
35:BA:2308:G:C2'	35:BA:2309:A:C8	2.98	0.46
35:BA:2332:U:H4'	35:BA:2336:A:H62	1.79	0.46
35:BA:2645:G:C3'	35:BA:2646:C:C5'	2.87	0.46
35:BA:2793:G:O2'	35:BA:2794:C:C5'	2.64	0.46
37:BC:4:GLY:O	37:BC:7:TYR:HB3	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:177:LEU:HB2	38:BD:179:SER:OG	2.15	0.46
38:BD:248:SER:HB2	38:BD:249:PRO:CD	2.46	0.46
39:BE:57:LYS:O	39:BE:58:ARG:HG3	2.15	0.46
41:BG:74:LYS:O	41:BG:75:LYS:O	2.34	0.46
45:BN:54:VAL:HG12	45:BN:55:VAL:N	2.30	0.46
45:BN:66:LYS:O	45:BN:87:LEU:CB	2.62	0.46
47:BP:58:THR:O	47:BP:61:ARG:HG3	2.14	0.46
47:BP:95:VAL:HG23	47:BP:125:VAL:HA	1.96	0.46
47:BP:98:GLU:H	47:BP:101:VAL:HG13	1.80	0.46
48:BQ:14:ARG:HA	48:BQ:72:LYS:CE	2.45	0.46
48:BQ:141:GLN:CG	57:BZ:72:ARG:NH1	2.78	0.46
49:BR:82:GLU:O	49:BR:85:PRO:HD2	2.15	0.46
50:BS:93:LYS:O	50:BS:95:HIS:N	2.48	0.46
51:BT:5:ALA:O	51:BT:8:LYS:N	2.48	0.46
52:BU:59:ARG:O	52:BU:60:LEU:C	2.58	0.46
57:BZ:79:ARG:O	57:BZ:80:ARG:C	2.59	0.46
1:AA:189:G:C6	1:AA:189(A):C:C4	3.04	0.46
1:AA:250:A:H2	1:AA:274:A:N6	2.14	0.46
1:AA:322:C:O2'	1:AA:323:U:H5'	2.16	0.46
1:AA:446:G:C2'	1:AA:447:G:H5'	2.45	0.46
1:AA:575:G:N2	1:AA:576:G:N7	2.62	0.46
1:AA:619:U:N3	4:AD:135:LEU:HD11	2.29	0.46
1:AA:658:G:C1'	15:AO:22:THR:HB	2.46	0.46
1:AA:662:G:C6	1:AA:744:C:N3	2.83	0.46
1:AA:774:G:H21	1:AA:775:G:H1'	1.79	0.46
1:AA:929:G:N2	1:AA:930:C:C2	2.83	0.46
1:AA:954:G:H4'	13:AM:120:LYS:HD2	1.96	0.46
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.97	0.46
1:AA:1075:C:O2'	1:AA:1076:C:H5'	2.15	0.46
1:AA:1124:G:C5'	10:AJ:35:SER:HB2	2.45	0.46
1:AA:1250:A:H2	1:AA:1370:G:H1'	1.80	0.46
1:AA:1338:G:C6	1:AA:1339:A:N6	2.83	0.46
1:AA:1500:A:OP2	1:AA:1505:G:P	2.73	0.46
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.78	0.46
2:AB:87:ARG:NH1	2:AB:220:ASP:OD1	2.48	0.46
2:AB:213:LEU:HD22	2:AB:214:ILE:HD13	1.96	0.46
3:AC:14:ILE:O	3:AC:15:THR:HB	2.14	0.46
3:AC:187:ALA:HB3	3:AC:198:VAL:HB	1.97	0.46
4:AD:64:LEU:HB2	4:AD:198:VAL:HG21	1.98	0.46
7:AG:87:VAL:HG22	7:AG:154:TYR:HB2	1.97	0.46
9:AI:111:ARG:O	9:AI:113:LYS:HG3	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:25:GLU:O	10:AJ:29:ARG:NH2	2.49	0.46
12:AL:125:PRO:O	12:AL:126:LYS:C	2.58	0.46
15:AO:26:GLU:O	15:AO:27:VAL:C	2.57	0.46
17:AQ:71:PHE:O	17:AQ:72:ARG:HG2	2.15	0.46
19:AS:34:TRP:CD1	19:AS:52:TYR:CD2	3.03	0.46
19:AS:41:VAL:CG2	19:AS:44:MET:HG2	2.45	0.46
19:AS:43:GLU:CG	29:B4:47:GLN:NE2	2.77	0.46
20:AT:38:LYS:HA	20:AT:41:ILE:CG1	2.46	0.46
20:AT:48:LYS:O	20:AT:49:ALA:C	2.57	0.46
20:AT:49:ALA:O	20:AT:50:GLU:C	2.58	0.46
21:AU:18:TYR:N	21:AU:18:TYR:HD1	2.13	0.46
22:AV:47:U:C6	22:AV:50:U:OP1	2.68	0.46
22:AV:49:G:H21	22:AV:50:U:C1'	2.26	0.46
22:AV:69:C:C2	22:AV:70:G:C8	3.03	0.46
24:AY:7:LEU:C	24:AY:10:VAL:HG23	2.40	0.46
24:AY:72:THR:CB	24:AY:89:THR:HA	2.45	0.46
24:AY:282:ARG:CG	24:AY:319:ARG:CZ	2.94	0.46
24:AY:303:ILE:HA	24:AY:315:VAL:O	2.16	0.46
24:AY:386:LYS:HE3	24:AY:388:THR:CA	2.45	0.46
27:B2:65:ASN:C	27:B2:67:LYS:N	2.72	0.46
30:B5:12:SER:O	30:B5:15:ARG:N	2.49	0.46
35:BA:149:A:H8	35:BA:149:A:O5'	1.97	0.46
35:BA:257:A:O2'	35:BA:258:G:H5'	2.16	0.46
35:BA:629:G:H4'	35:BA:650:C:O2	2.15	0.46
35:BA:654(L):G:C2'	35:BA:654(M):C:H4'	2.45	0.46
35:BA:662:G:P	47:BP:18:ARG:HD2	2.55	0.46
35:BA:743:G:N2	35:BA:755:C:C2	2.83	0.46
35:BA:826:U:H1'	47:BP:53:GLY:O	2.15	0.46
35:BA:934:G:C6	35:BA:935:C:C4	3.03	0.46
35:BA:977:G:O6	35:BA:987:G:C6	2.69	0.46
35:BA:1115:G:C5	35:BA:1116:C:C5	3.04	0.46
35:BA:1120:G:O2'	35:BA:1121:C:H5'	2.15	0.46
35:BA:1141:U:P	45:BN:63:THR:HG23	2.54	0.46
35:BA:1254:A:C8	35:BA:1256:G:C8	3.03	0.46
35:BA:1576:U:O2'	35:BA:1577:C:H5'	2.15	0.46
35:BA:1718:G:H2'	35:BA:1719:G:H8	1.80	0.46
35:BA:1819:A:C5'	38:BD:158:ALA:HB2	2.39	0.46
35:BA:2010:G:C5'	54:BW:42:ARG:HB2	2.46	0.46
35:BA:2048:G:C6	35:BA:2049:G:C5	3.04	0.46
35:BA:2049:G:N2	35:BA:2620:C:C2	2.82	0.46
35:BA:2156:G:OP2	35:BA:2156:G:C8	2.68	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2373:G:C6	35:BA:2374:C:N4	2.83	0.46
36:BB:12:C:H4'	36:BB:13:A:OP1	2.16	0.46
37:BC:65:PRO:CG	37:BC:187:ASP:O	2.64	0.46
38:BD:80:ALA:N	38:BD:94:LEU:O	2.46	0.46
38:BD:181:GLU:C	38:BD:272:ALA:CB	2.83	0.46
39:BE:33:VAL:HG13	39:BE:69:LYS:CD	2.45	0.46
41:BG:67:LYS:HD3	41:BG:67:LYS:N	2.29	0.46
41:BG:92:VAL:O	41:BG:92:VAL:CG1	2.64	0.46
45:BN:52:VAL:C	45:BN:53:VAL:HG23	2.41	0.46
45:BN:57:ALA:C	45:BN:58:ASP:O	2.59	0.46
46:BO:105:GLU:N	46:BO:105:GLU:OE1	2.47	0.46
49:BR:20:LEU:C	49:BR:22:ARG:N	2.72	0.46
50:BS:30:ARG:HH22	50:BS:62:LYS:CG	2.28	0.46
50:BS:54:LEU:O	50:BS:57:LYS:N	2.49	0.46
50:BS:78:LEU:HD21	50:BS:83:LYS:HA	1.96	0.46
51:BT:78:LEU:C	51:BT:79:HIS:CG	2.93	0.46
52:BU:82:GLY:O	52:BU:85:LYS:N	2.47	0.46
53:BV:33:VAL:O	53:BV:58:VAL:CG1	2.63	0.46
54:BW:28:SER:HA	54:BW:70:TYR:HA	1.97	0.46
55:BX:4:ALA:O	55:BX:6:ASP:N	2.48	0.46
55:BX:26:TYR:OH	55:BX:93:GLU:OE2	2.33	0.46
56:BY:6:HIS:CD2	56:BY:6:HIS:N	2.83	0.46
56:BY:75:ILE:O	56:BY:76:CYS:SG	2.74	0.46
56:BY:84:ARG:HG2	56:BY:85:VAL:N	2.26	0.46
57:BZ:53:ILE:HG13	57:BZ:54:HIS:CD2	2.51	0.46
57:BZ:145:GLU:HG3	57:BZ:146:ILE:H	1.81	0.46
1:AA:19:C:H2'	1:AA:20:U:H6	1.80	0.46
1:AA:28:G:O2'	1:AA:296:U:OP1	2.34	0.46
1:AA:106:C:H42	20:AT:14:LYS:HZ3	1.62	0.46
1:AA:269:C:H2'	1:AA:270:A:C8	2.49	0.46
1:AA:757:U:O2'	1:AA:758:G:H5'	2.15	0.46
1:AA:817:C:N4	1:AA:819:A:C4	2.83	0.46
1:AA:941:G:H8	1:AA:941:G:O5'	1.99	0.46
2:AB:16:HIS:HB3	2:AB:210:SER:CB	2.46	0.46
2:AB:31:TYR:N	2:AB:31:TYR:CD1	2.81	0.46
6:AF:9:VAL:C	6:AF:10:LEU:HD12	2.40	0.46
6:AF:50:TYR:CD1	6:AF:50:TYR:O	2.68	0.46
6:AF:50:TYR:CE1	6:AF:52:ILE:HG13	2.49	0.46
9:AI:15:ALA:O	9:AI:17:VAL:HG23	2.15	0.46
9:AI:22:GLY:O	9:AI:59:PHE:N	2.48	0.46
9:AI:79:LEU:HD13	9:AI:79:LEU:C	2.41	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:22:THR:CB	14:AN:33:VAL:HG21	2.46	0.46
15:AO:5:LYS:HA	15:AO:8:LYS:HB2	1.97	0.46
16:AP:27:LYS:O	16:AP:28:ARG:C	2.58	0.46
17:AQ:67:LYS:HA	17:AQ:70:ARG:NH1	2.28	0.46
20:AT:12:ALA:C	20:AT:14:LYS:H	2.23	0.46
20:AT:17:ARG:O	20:AT:18:GLN:C	2.58	0.46
22:AV:15:G:C5'	22:AV:16:C:H5'	2.46	0.46
24:AY:334:VAL:HG12	24:AY:334:VAL:O	2.15	0.46
32:B7:30:VAL:HG22	32:B7:33:ARG:HH21	1.78	0.46
33:B8:55:ALA:O	33:B8:56:GLU:C	2.59	0.46
34:B9:19:ARG:HG3	34:B9:20:HIS:ND1	2.30	0.46
35:BA:28:A:N6	35:BA:512:G:H1'	2.30	0.46
35:BA:116:C:C4	35:BA:117:G:C5	3.03	0.46
35:BA:199:A:O2'	35:BA:2433:A:N6	2.48	0.46
35:BA:280:C:H3'	35:BA:281:G:C8	2.51	0.46
35:BA:519:U:H2'	35:BA:520:G:C8	2.50	0.46
35:BA:642:G:H8	35:BA:642:G:O5'	1.99	0.46
35:BA:693:C:O2'	35:BA:1353:A:H1'	2.16	0.46
35:BA:714:U:H2'	35:BA:715:G:H3'	1.97	0.46
35:BA:854:G:H5'	35:BA:855:G:OP2	2.16	0.46
35:BA:1024:G:N7	35:BA:1025:G:H2'	2.30	0.46
35:BA:1170:G:H1	35:BA:1179:C:N4	2.13	0.46
35:BA:1281:G:H2'	35:BA:1282:U:C6	2.49	0.46
35:BA:1297:C:O2'	35:BA:1298:C:H5'	2.16	0.46
35:BA:1308:A:N6	35:BA:1309:G:C2	2.83	0.46
35:BA:1479:G:H2'	35:BA:1480:G:O4'	2.15	0.46
35:BA:1491:G:C5	35:BA:1500:G:N2	2.84	0.46
35:BA:1527:G:H8	35:BA:1527:G:O5'	1.98	0.46
35:BA:1673:U:O2'	35:BA:1674:G:H5'	2.16	0.46
35:BA:2152:G:C5	35:BA:2153:G:C8	3.03	0.46
35:BA:2282:G:OP1	35:BA:2283:C:H1'	2.15	0.46
35:BA:2355:C:O2	35:BA:2355:C:C2'	2.59	0.46
35:BA:2356:C:C5	35:BA:2357:U:C4	3.02	0.46
35:BA:2498:C:H2'	35:BA:2499:C:C5'	2.46	0.46
35:BA:2529:G:H5''	35:BA:2530:A:H5''	1.98	0.46
35:BA:2781:A:H5'	35:BA:2782:G:H5'	1.97	0.46
35:BA:2821:A:OP2	35:BA:2821:A:H3'	2.16	0.46
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.70	0.46
36:BB:45:A:OP2	41:BG:96:ARG:NH2	2.48	0.46
37:BC:68:LEU:HA	37:BC:176:GLY:HA2	1.96	0.46
38:BD:144:ALA:O	38:BD:145:VAL:HG23	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:274:ARG:CG	38:BD:274:ARG:NH1	2.78	0.46
39:BE:9:VAL:HG11	39:BE:25:VAL:CG1	2.45	0.46
39:BE:97:LYS:O	39:BE:100:GLU:HG3	2.15	0.46
39:BE:117:MET:HE2	39:BE:123:ALA:C	2.40	0.46
39:BE:180:ASN:O	39:BE:181:LEU:HD12	2.16	0.46
40:BF:32:LEU:HD13	40:BF:112:MET:SD	2.56	0.46
40:BF:163:VAL:C	40:BF:166:ALA:HB3	2.41	0.46
41:BG:40:ASN:HB2	41:BG:90:LEU:O	2.15	0.46
41:BG:43:LEU:HB3	41:BG:45:GLU:CG	2.46	0.46
41:BG:77:ILE:HG22	41:BG:80:PHE:O	2.16	0.46
41:BG:115:ARG:NH2	41:BG:136:ARG:CD	2.79	0.46
41:BG:138:GLN:NE2	41:BG:149:VAL:HG12	2.30	0.46
42:BH:33:LEU:HD12	42:BH:75:ALA:C	2.30	0.46
47:BP:30:THR:HG22	47:BP:31:ALA:N	2.18	0.46
47:BP:47:ASP:HB3	47:BP:51:PHE:HB2	1.97	0.46
49:BR:7:GLY:O	49:BR:8:ARG:CB	2.60	0.46
49:BR:26:LYS:HA	49:BR:70:LEU:HD22	1.97	0.46
50:BS:53:SER:OG	50:BS:54:LEU:N	2.47	0.46
50:BS:85:VAL:HG23	50:BS:86:ALA:N	2.30	0.46
51:BT:83:ILE:O	51:BT:84:GLN:O	2.34	0.46
53:BV:59:ALA:CA	53:BV:95:LEU:O	2.64	0.46
57:BZ:3:TYR:N	57:BZ:3:TYR:CD1	2.83	0.46
57:BZ:122:ARG:NH1	57:BZ:122:ARG:CG	2.75	0.46
1:AA:110:C:C2	1:AA:111:G:C8	3.03	0.46
1:AA:166:G:C2	1:AA:167:G:C4	3.04	0.46
1:AA:377:G:H5''	16:AP:24:ALA:O	2.15	0.46
1:AA:495:A:O2'	1:AA:496:A:H2'	2.16	0.46
1:AA:562:C:H1'	12:AL:15:ARG:HD2	1.98	0.46
1:AA:686:U:O4	1:AA:703:G:H1'	2.16	0.46
1:AA:712:A:H2'	1:AA:713:G:O4'	2.15	0.46
1:AA:892:A:C2	1:AA:907:A:C2	3.03	0.46
1:AA:945:G:N2	1:AA:1337:G:H21	2.13	0.46
1:AA:978:A:C6	1:AA:1318:A:N7	2.83	0.46
1:AA:1001(A):G:H2'	1:AA:1002:G:O4'	2.15	0.46
1:AA:1242:C:O2'	1:AA:1243:C:C5'	2.62	0.46
1:AA:1497:G:C2'	1:AA:1498:U:C5'	2.92	0.46
2:AB:204:ASN:ND2	2:AB:205:ASP:N	2.61	0.46
3:AC:16:ARG:NH2	3:AC:183:ASP:HA	2.30	0.46
4:AD:61:LYS:O	4:AD:61:LYS:HG2	2.16	0.46
5:AE:20:GLN:CG	5:AE:21:ALA:N	2.65	0.46
7:AG:12:LEU:HD13	7:AG:25:ALA:HB2	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:22:GLU:O	8:AH:63:LEU:CD2	2.63	0.46
8:AH:40:ALA:CA	8:AH:45:ILE:HG13	2.46	0.46
10:AJ:16:LEU:HD23	10:AJ:94:VAL:CG1	2.44	0.46
10:AJ:56:HIS:C	10:AJ:58:ASP:N	2.73	0.46
11:AK:63:LEU:HA	11:AK:66:LEU:CG	2.45	0.46
14:AN:31:ARG:O	14:AN:32:SER:OG	2.33	0.46
16:AP:74:LEU:C	16:AP:79:VAL:CG2	2.89	0.46
17:AQ:56:VAL:C	17:AQ:57:VAL:CG1	2.88	0.46
24:AY:14:ARG:CD	24:AY:276:ALA:HB1	2.46	0.46
24:AY:115:ALA:HB2	24:AY:148:ILE:HB	1.97	0.46
24:AY:171:TRP:O	24:AY:182:VAL:CA	2.62	0.46
24:AY:393:PHE:HB3	24:AY:394:ALA:H	1.18	0.46
27:B2:29:LYS:NZ	27:B2:57:ILE:HG21	2.29	0.46
29:B4:9:LEU:CD2	29:B4:26:SER:HA	2.44	0.46
35:BA:28:A:H1'	35:BA:513:A:C6	2.51	0.46
35:BA:772:C:O2'	35:BA:773:U:H5'	2.15	0.46
35:BA:831:G:O3'	47:BP:40:SER:CB	2.64	0.46
35:BA:906:G:C4'	48:BQ:67:ARG:HH22	2.28	0.46
35:BA:961:C:C4	35:BA:2031:A:N3	2.83	0.46
35:BA:1051:G:N2	35:BA:1108:U:C5	2.83	0.46
35:BA:1257:C:H4'	40:BF:83:PHE:CE1	2.51	0.46
35:BA:1327:C:N4	35:BA:1328:G:C6	2.84	0.46
35:BA:1349:A:N6	35:BA:1598:C:N4	2.64	0.46
35:BA:1388:G:C2'	35:BA:1389:G:H5'	2.46	0.46
35:BA:1416:G:N3	35:BA:1417:C:C4	2.84	0.46
35:BA:1902:C:H4'	38:BD:246:PRO:HD3	1.97	0.46
35:BA:1902:C:H5'	38:BD:246:PRO:CD	2.45	0.46
35:BA:2000:G:N3	35:BA:2001:A:C8	2.83	0.46
35:BA:2009:G:C4'	54:BW:40:ASN:ND2	2.79	0.46
35:BA:2111:C:C2	35:BA:2147:G:N2	2.83	0.46
35:BA:2181:G:H2'	35:BA:2182:G:H8	1.81	0.46
35:BA:2249:U:H1'	35:BA:2275:C:N4	2.30	0.46
37:BC:77:ILE:C	37:BC:78:ALA:O	2.58	0.46
38:BD:133:LEU:CD2	38:BD:191:ALA:HB2	2.43	0.46
39:BE:111:ARG:NH1	39:BE:160:TYR:CE2	2.83	0.46
40:BF:109:GLY:C	40:BF:112:MET:HB3	2.41	0.46
40:BF:154:VAL:HG13	40:BF:191:ARG:CB	2.45	0.46
42:BH:68:THR:HG23	42:BH:72:ILE:HB	1.98	0.46
42:BH:105:LEU:C	42:BH:106:THR:CG2	2.88	0.46
42:BH:107:VAL:O	42:BH:107:VAL:CG2	2.62	0.46
42:BH:145:ALA:CB	42:BH:164:TYR:OH	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:26:LEU:O	45:BN:30:ILE:CG1	2.56	0.46
46:BO:14:THR:HG22	46:BO:95:GLY:H	1.79	0.46
48:BQ:111:GLU:C	48:BQ:113:GLN:N	2.71	0.46
49:BR:71:GLN:O	49:BR:72:ASP:C	2.58	0.46
50:BS:104:GLY:C	50:BS:106:ARG:H	2.23	0.46
50:BS:106:ARG:NH1	50:BS:107:GLU:C	2.69	0.46
51:BT:61:PHE:C	51:BT:62:THR:HG23	2.41	0.46
52:BU:65:ILE:CD1	52:BU:96:ALA:CB	2.94	0.46
52:BU:97:ASP:HA	52:BU:100:VAL:HG23	1.98	0.46
53:BV:29:PRO:HG2	53:BV:30:GLY:H	1.81	0.46
53:BV:60:GLU:HB3	53:BV:95:LEU:HB3	1.96	0.46
53:BV:61:VAL:O	53:BV:62:LEU:C	2.58	0.46
53:BV:95:LEU:CD1	53:BV:97:LYS:NZ	2.78	0.46
1:AA:16:A:H2'	1:AA:17:U:C5'	2.44	0.46
1:AA:67:C:O2	1:AA:171:A:C2	2.55	0.46
1:AA:111:G:O2'	1:AA:389:A:H1'	2.15	0.46
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.15	0.46
1:AA:450:G:H5''	1:AA:451:A:H3'	1.97	0.46
1:AA:453:A:O2'	1:AA:454:C:H5''	2.15	0.46
1:AA:507:C:OP2	1:AA:507:C:C6	2.69	0.46
1:AA:623:C:H3'	1:AA:624:C:C6	2.51	0.46
1:AA:629:G:H2'	1:AA:630:G:H8	1.79	0.46
1:AA:785:G:C2'	1:AA:786:G:H5'	2.46	0.46
1:AA:951:G:C2'	1:AA:952:U:O5'	2.64	0.46
1:AA:1001:A:N3	1:AA:1001:A:C2'	2.75	0.46
1:AA:1202:G:O4'	14:AN:29:ARG:HD3	2.15	0.46
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.32	0.46
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.50	0.46
1:AA:1360:A:C6	1:AA:1361:G:C6	3.03	0.46
1:AA:1405:G:C1'	1:AA:1519:A:H4'	2.44	0.46
1:AA:1516:G:N3	1:AA:1518:A:OP2	2.48	0.46
2:AB:68:ILE:N	2:AB:90:MET:CE	2.66	0.46
2:AB:157:ARG:CB	2:AB:157:ARG:HH11	2.29	0.46
3:AC:108:ASN:HB3	3:AC:111:LEU:CB	2.43	0.46
4:AD:57:ARG:NH2	5:AE:107:ARG:NH1	2.63	0.46
4:AD:61:LYS:HA	4:AD:203:VAL:CG2	2.38	0.46
4:AD:98:GLU:O	4:AD:100:ARG:N	2.49	0.46
4:AD:112:VAL:HG12	4:AD:116:GLN:NE2	2.31	0.46
7:AG:18:TYR:O	7:AG:20:ASP:N	2.45	0.46
9:AI:53:VAL:HG23	9:AI:55:ALA:HB3	1.96	0.46
11:AK:62:GLN:O	11:AK:63:LEU:C	2.59	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:82:VAL:CG2	11:AK:83:ILE:H	2.27	0.46
17:AQ:81:ARG:O	17:AQ:83:ASP:N	2.49	0.46
24:AY:174:GLY:C	24:AY:179:PHE:HA	2.41	0.46
24:AY:425:VAL:HG11	24:AY:445:GLN:HG3	1.94	0.46
24:AY:438:VAL:O	24:AY:446:PHE:CE2	2.68	0.46
24:AY:457:TYR:HB3	24:AY:459:VAL:HG22	1.98	0.46
24:AY:492:GLN:C	24:AY:504:ILE:HG12	2.40	0.46
25:B0:38:VAL:HB	25:B0:59:LEU:HD12	1.96	0.46
25:B0:45:PHE:CB	25:B0:59:LEU:HD11	2.45	0.46
27:B2:58:ALA:O	27:B2:59:ARG:C	2.59	0.46
31:B6:15:GLU:O	31:B6:17:LYS:N	2.48	0.46
35:BA:486:C:H4'	54:BW:60:ASN:ND2	2.31	0.46
35:BA:564:C:OP1	53:BV:77:ALA:CB	2.63	0.46
35:BA:605:C:H1'	35:BA:657:U:O2'	2.16	0.46
35:BA:1005:C:C2	35:BA:1006:C:C5	3.04	0.46
35:BA:1058:G:N1	35:BA:1059:G:N7	2.63	0.46
35:BA:1061:U:N3	44:BK:55:UNK:C	2.79	0.46
35:BA:1120:G:C6	35:BA:1121:C:N3	2.84	0.46
35:BA:1200:C:C2	35:BA:1246:A:C2	3.03	0.46
35:BA:1501:C:H5''	35:BA:1501:C:H6	1.81	0.46
35:BA:1502:C:H5'	35:BA:1503:U:OP2	2.16	0.46
35:BA:1721:G:H8	35:BA:1741:A:H62	1.64	0.46
35:BA:2012:G:C4'	54:BW:96:ILE:HD11	2.45	0.46
35:BA:2031:A:N6	35:BA:2498:C:H1'	2.31	0.46
35:BA:2043:C:C4	35:BA:2777:G:C2	3.04	0.46
35:BA:2068:U:N3	35:BA:2430:A:H2	2.13	0.46
35:BA:2309:A:C2'	35:BA:2310:A:C5'	2.94	0.46
35:BA:2365:G:O2'	35:BA:2366:A:H8	1.95	0.46
35:BA:2585:U:O2	35:BA:2585:U:O4'	2.31	0.46
35:BA:2718:G:OP1	51:BT:100:TYR:CD2	2.64	0.46
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.51	0.46
36:BB:41:U:C2	41:BG:70:VAL:HB	2.51	0.46
37:BC:104:LEU:O	37:BC:105:ASP:CB	2.63	0.46
38:BD:6:PHE:HE1	38:BD:13:ARG:HH21	1.52	0.46
39:BE:65:GLY:O	39:BE:66:HIS:C	2.59	0.46
39:BE:184:VAL:O	39:BE:186:GLY:N	2.48	0.46
41:BG:135:LEU:HD23	41:BG:155:MET:CG	2.46	0.46
42:BH:118:PRO:O	42:BH:119:GLU:O	2.33	0.46
42:BH:129:THR:HB	42:BH:130:ARG:H	1.54	0.46
45:BN:62:VAL:O	45:BN:62:VAL:CG1	2.61	0.46
46:BO:28:SER:C	46:BO:29:ASN:CG	2.82	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:23:PRO:HD2	47:BP:33:ARG:CZ	2.43	0.46
48:BQ:12:GLN:CD	48:BQ:73:PRO:CD	2.89	0.46
52:BU:83:LEU:O	52:BU:88:ILE:HG13	2.15	0.46
56:BY:88:LYS:NZ	56:BY:93:GLY:O	2.36	0.46
57:BZ:169:GLU:O	57:BZ:170:THR:C	2.56	0.46
1:AA:110:C:O2'	1:AA:111:G:H5'	2.16	0.46
1:AA:431:A:H2'	1:AA:432:A:H8	1.80	0.46
1:AA:867:G:H2'	1:AA:868:C:H6	1.80	0.46
1:AA:921:U:O2	5:AE:19:MET:HB2	2.16	0.46
1:AA:986:A:N1	1:AA:1220:G:C6	2.84	0.46
1:AA:1049:U:O2	1:AA:1201:A:C5	2.69	0.46
1:AA:1059:C:O3'	14:AN:45:ARG:NH2	2.49	0.46
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.69	0.46
1:AA:1250:A:O2'	9:AI:68:GLY:HA2	2.16	0.46
1:AA:1418:A:C2	1:AA:1483:A:C4	3.03	0.46
1:AA:1483:A:H2	35:BA:1960:A:O4'	1.99	0.46
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.80	0.46
2:AB:42:ILE:CD1	2:AB:202:PRO:C	2.88	0.46
2:AB:64:ARG:HG2	2:AB:65:GLY:N	2.30	0.46
2:AB:221:LEU:HD13	2:AB:225:ALA:HB2	1.97	0.46
3:AC:94:LEU:C	3:AC:94:LEU:HD12	2.41	0.46
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.15	0.46
5:AE:77:PRO:HG2	5:AE:142:LEU:CD2	2.44	0.46
6:AF:98:LEU:H	6:AF:98:LEU:CD1	1.96	0.46
7:AG:126:ASP:N	7:AG:126:ASP:OD1	2.47	0.46
11:AK:57:THR:HG22	11:AK:60:ALA:HB2	1.98	0.46
12:AL:89:ARG:HD2	12:AL:91:LYS:N	2.30	0.46
13:AM:15:VAL:HG13	13:AM:44:ARG:O	2.15	0.46
14:AN:53:LEU:HB3	14:AN:56:VAL:CG2	2.34	0.46
15:AO:33:THR:O	15:AO:36:ILE:HB	2.15	0.46
19:AS:11:VAL:HA	19:AS:38:SER:CB	2.46	0.46
19:AS:77:THR:HG23	19:AS:78:ARG:H	1.81	0.46
22:AV:27:U:H2'	22:AV:28:C:H5''	1.92	0.46
24:AY:103:LEU:HB3	24:AY:106:VAL:HG11	1.98	0.46
24:AY:225:GLN:CA	24:AY:228:ARG:CB	2.90	0.46
24:AY:498:GLY:O	24:AY:499:ASP:CB	2.63	0.46
28:B3:13:ILE:HD11	35:BA:989:G:N1	2.30	0.46
28:B3:25:ALA:HA	35:BA:849:A:N1	2.30	0.46
31:B6:15:GLU:OE1	31:B6:18:ARG:NE	2.49	0.46
31:B6:27:LYS:O	31:B6:27:LYS:HG3	2.15	0.46
32:B7:1:MET:HG2	35:BA:753:C:OP1	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:3:LYS:HD3	35:BA:242:G:C5'	2.45	0.46
35:BA:467:G:H2'	35:BA:468:G:C8	2.51	0.46
35:BA:582:G:H2'	35:BA:583:G:H8	1.80	0.46
35:BA:676:A:H1'	35:BA:2443:C:O4'	2.15	0.46
35:BA:848:G:H5'	35:BA:848:G:C8	2.49	0.46
35:BA:952:G:P	48:BQ:16:ARG:HH22	2.39	0.46
35:BA:972:G:C2'	35:BA:973:A:C8	2.90	0.46
35:BA:1340:U:H4'	35:BA:1394:U:H1'	1.97	0.46
35:BA:1695:G:N2	35:BA:1696:G:C5	2.84	0.46
35:BA:1803:A:C3'	35:BA:1804:C:H6	2.29	0.46
35:BA:1845:G:N1	35:BA:1895:C:N3	2.54	0.46
35:BA:2048:G:O4'	35:BA:2823:A:N1	2.48	0.46
35:BA:2076:U:H5	38:BD:244:ARG:HH22	1.60	0.46
35:BA:2156:G:OP2	35:BA:2156:G:H8	1.98	0.46
35:BA:2309:A:H2'	35:BA:2310:A:H5'	1.96	0.46
35:BA:2453:A:H3'	35:BA:2453:A:C8	2.51	0.46
36:BB:67:G:C2	36:BB:68:C:C5	3.03	0.46
36:BB:75:G:C2'	57:BZ:85:HIS:CE1	2.92	0.46
36:BB:112:U:H2'	36:BB:113:G:H8	1.81	0.46
37:BC:59:ARG:NE	37:BC:164:ARG:CD	2.78	0.46
37:BC:131:LEU:HD22	37:BC:136:LEU:HB2	1.97	0.46
38:BD:26:LYS:O	38:BD:27:THR:CG2	2.62	0.46
38:BD:65:ILE:HD11	38:BD:88:ARG:NH1	2.31	0.46
38:BD:271:ILE:HG13	38:BD:272:ALA:N	2.30	0.46
40:BF:33:LEU:CD2	40:BF:33:LEU:H	2.29	0.46
42:BH:12:PRO:CD	42:BH:15:VAL:CG1	2.93	0.46
42:BH:18:GLU:HG3	42:BH:25:LYS:HB2	1.97	0.46
42:BH:154:PRO:O	42:BH:155:SER:HB3	2.16	0.46
45:BN:114:ARG:O	45:BN:117:PHE:N	2.49	0.46
45:BN:123:TYR:N	45:BN:123:TYR:CD1	2.84	0.46
46:BO:87:ILE:HD13	46:BO:87:ILE:N	2.30	0.46
48:BQ:51:ARG:O	48:BQ:55:VAL:HG12	2.15	0.46
48:BQ:106:VAL:O	48:BQ:107:ALA:CB	2.64	0.46
51:BT:48:ILE:N	51:BT:63:VAL:HG13	2.30	0.46
51:BT:58:ASN:ND2	51:BT:58:ASN:N	2.30	0.46
53:BV:32:THR:O	53:BV:33:VAL:HG13	2.15	0.46
53:BV:95:LEU:HD13	53:BV:97:LYS:CE	2.46	0.46
53:BV:95:LEU:C	53:BV:95:LEU:CD2	2.88	0.46
54:BW:26:GLY:O	54:BW:27:LYS:HG3	2.14	0.46
56:BY:31:LEU:HB2	56:BY:32:PRO:CA	2.45	0.46
56:BY:46:LYS:CG	56:BY:47:LYS:N	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:7:ALA:O	57:BZ:61:LEU:HA	2.15	0.46
1:AA:67:C:O2'	1:AA:171:A:H1'	2.16	0.46
1:AA:686:U:O2	11:AK:42:TRP:HZ2	1.99	0.46
1:AA:777:A:C2'	1:AA:778:G:O5'	2.64	0.46
1:AA:816:A:OP2	1:AA:1526:G:O2'	2.33	0.46
1:AA:894:G:O2'	1:AA:895:G:H5'	2.16	0.46
1:AA:1117:G:C6	1:AA:1184:G:C6	3.03	0.46
1:AA:1267:C:O2	21:AU:20:LYS:HD2	2.15	0.46
1:AA:1443:G:H2'	1:AA:1443:G:N3	2.31	0.46
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.16	0.46
2:AB:87:ARG:HH11	2:AB:223:ILE:CD1	2.14	0.46
4:AD:23:GLY:HA3	4:AD:112:VAL:O	2.15	0.46
5:AE:99:GLY:O	5:AE:118:ILE:N	2.43	0.46
5:AE:148:VAL:HG12	5:AE:149:GLU:N	2.31	0.46
6:AF:46:ARG:NH2	18:AR:37:VAL:HG22	2.31	0.46
6:AF:83:ASP:C	6:AF:85:VAL:N	2.70	0.46
7:AG:108:ALA:HB2	7:AG:123:GLU:CB	2.46	0.46
7:AG:145:ALA:C	7:AG:147:ALA:N	2.73	0.46
8:AH:31:PHE:CE1	8:AH:118:VAL:HG21	2.51	0.46
8:AH:50:ARG:O	8:AH:51:VAL:HG13	2.16	0.46
8:AH:92:ARG:HB2	8:AH:94:TYR:CE1	2.50	0.46
9:AI:33:PHE:O	9:AI:34:ASN:C	2.59	0.46
10:AJ:56:HIS:C	10:AJ:58:ASP:H	2.24	0.46
15:AO:14:GLU:CG	15:AO:15:PHE:CE1	2.99	0.46
24:AY:4:SER:CB	24:AY:7:LEU:HD12	2.43	0.46
24:AY:15:THR:C	24:AY:106:VAL:HG23	2.41	0.46
24:AY:97:GLU:C	24:AY:99:THR:H	2.24	0.46
24:AY:105:ALA:O	24:AY:319:ARG:NH1	2.49	0.46
24:AY:184:HIS:CE1	24:AY:191:TYR:OH	2.68	0.46
24:AY:287:ARG:HH21	24:AY:289:VAL:HG13	1.81	0.46
24:AY:457:TYR:HB2	24:AY:459:VAL:CG2	2.36	0.46
25:B0:23:VAL:HG22	25:B0:38:VAL:HG22	1.97	0.46
28:B3:21:ALA:O	28:B3:25:ALA:HB2	2.16	0.46
31:B6:18:ARG:CG	31:B6:19:ARG:H	2.20	0.46
31:B6:44:ARG:C	31:B6:45:LYS:CD	2.89	0.46
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.76	0.46
34:B9:24:TYR:CE2	34:B9:35:ARG:HG3	2.49	0.46
35:BA:71:A:OP1	35:BA:112:U:O2'	2.27	0.46
35:BA:298:G:H8	35:BA:298:G:H5''	1.81	0.46
35:BA:401:A:H2'	35:BA:402:A:C8	2.50	0.46
35:BA:573:G:OP2	53:BV:78:LYS:NZ	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:955:C:C5	35:BA:956:G:C8	3.04	0.46
35:BA:957:A:N7	35:BA:959:A:C5	2.84	0.46
35:BA:971:C:O2'	35:BA:983:A:H1'	2.16	0.46
35:BA:1018:C:C2'	35:BA:1019:U:H5'	2.46	0.46
35:BA:1124:C:H2'	35:BA:1125:G:O4'	2.16	0.46
35:BA:1187:G:C5'	53:BV:81:TYR:CE1	2.96	0.46
35:BA:1267:U:H5	35:BA:2012:G:C2	2.33	0.46
35:BA:1289:C:H4'	35:BA:1330:C:C1'	2.46	0.46
35:BA:1378:A:C8	35:BA:1380:G:C6	3.04	0.46
35:BA:1624:G:C5	35:BA:1625:C:C5	3.03	0.46
35:BA:2053:G:H4'	39:BE:145:LYS:HD3	1.98	0.46
35:BA:2068:U:H5'	35:BA:2069:G:H5''	1.97	0.46
35:BA:2078:C:H2'	35:BA:2079:U:O4'	2.15	0.46
35:BA:2106:G:H2'	35:BA:2107:C:H1'	1.97	0.46
35:BA:2173:A:N3	35:BA:2173:A:C2'	2.79	0.46
35:BA:2396:G:N1	35:BA:2421:G:C6	2.84	0.46
35:BA:2570:G:O2'	35:BA:2571:C:H5'	2.16	0.46
35:BA:2801(A):A:H4'	35:BA:2802:G:C2'	2.45	0.46
36:BB:10:C:N3	36:BB:11:C:C5	2.84	0.46
38:BD:183:ARG:HH21	38:BD:269:PHE:HD2	1.64	0.46
39:BE:103:ASP:OD2	39:BE:202:LYS:CE	2.64	0.46
39:BE:199:ARG:CG	39:BE:200:GLU:H	2.28	0.46
40:BF:8:GLN:O	40:BF:10:PRO:HD3	2.14	0.46
40:BF:33:LEU:N	40:BF:33:LEU:CD2	2.78	0.46
40:BF:62:ARG:HG2	40:BF:62:ARG:NH1	2.31	0.46
40:BF:95:ARG:NH2	40:BF:97:TYR:OH	2.49	0.46
40:BF:195:ASP:H	40:BF:198:ALA:HB3	1.81	0.46
41:BG:18:GLU:HA	41:BG:18:GLU:OE1	2.16	0.46
42:BH:154:PRO:CB	42:BH:161:GLY:HA3	2.42	0.46
51:BT:35:LYS:NZ	51:BT:41:ARG:CD	2.78	0.46
53:BV:91:TYR:HD1	53:BV:91:TYR:C	2.21	0.46
56:BY:12:THR:CG2	56:BY:75:ILE:HG21	2.46	0.46
57:BZ:87:ASP:C	57:BZ:88:PHE:CD1	2.94	0.46
1:AA:661:G:N2	1:AA:745:C:C2	2.84	0.46
1:AA:948:C:H42	1:AA:1233:G:H1	1.64	0.46
1:AA:949:A:C5	1:AA:950:U:C5	3.04	0.46
1:AA:1178:G:N7	9:AI:97:LYS:NZ	2.53	0.46
1:AA:1190:G:H5'	1:AA:1191:A:OP1	2.16	0.46
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.16	0.46
1:AA:1359:C:P	14:AN:22:THR:HG21	2.54	0.46
1:AA:1363:C:H5'	1:AA:1363(A):A:O5'	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:92:TYR:CD1	2:AB:92:TYR:C	2.94	0.46
2:AB:131:PRO:HG2	2:AB:134:GLU:HB2	1.97	0.46
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.81	0.46
3:AC:63:ASN:O	3:AC:63:ASN:CG	2.58	0.46
5:AE:94:ALA:HB1	5:AE:98:THR:CG2	2.43	0.46
9:AI:10:ARG:CG	9:AI:75:ASP:HB3	2.34	0.46
11:AK:57:THR:CG2	11:AK:60:ALA:CB	2.94	0.46
11:AK:62:GLN:O	11:AK:65:ALA:N	2.49	0.46
11:AK:73:MET:HG2	11:AK:103:LEU:HD11	1.97	0.46
11:AK:111:ASP:O	11:AK:111:ASP:OD1	2.34	0.46
12:AL:24:VAL:HG12	12:AL:26:ALA:HB2	1.97	0.46
13:AM:30:ALA:O	13:AM:33:ALA:HB3	2.16	0.46
15:AO:65:ARG:O	15:AO:66:LEU:C	2.59	0.46
24:AY:327:LYS:CD	24:AY:357:GLU:HG3	2.45	0.46
24:AY:331:LEU:CB	24:AY:379:PHE:CD2	2.95	0.46
26:B1:24:ALA:O	26:B1:25:LYS:C	2.59	0.46
27:B2:3:LEU:CD2	27:B2:7:ARG:HH12	2.29	0.46
32:B7:3:ARG:NH2	35:BA:789:A:C2	2.84	0.46
35:BA:132:G:C2'	35:BA:133:C:O4'	2.63	0.46
35:BA:247:G:OP2	35:BA:249:C:H5	1.99	0.46
35:BA:528:A:H3'	35:BA:528:A:H8	1.81	0.46
35:BA:530:G:N2	35:BA:2021:C:H1'	2.31	0.46
35:BA:558:G:OP1	45:BN:110:GLY:HA3	2.16	0.46
35:BA:568:U:P	35:BA:945:A:H61	2.39	0.46
35:BA:831:G:O3'	47:BP:40:SER:HB2	2.16	0.46
35:BA:957:A:OP1	48:BQ:77:LYS:HB2	2.16	0.46
35:BA:963:U:C2	35:BA:964:C:C5	3.04	0.46
35:BA:1059:G:OP2	44:BK:1:UNK:CB	2.64	0.46
35:BA:1260:G:C5	35:BA:1261:C:C5	3.04	0.46
35:BA:1334:G:H2'	35:BA:1335:U:C6	2.50	0.46
35:BA:1348:G:C6	35:BA:1349:A:N1	2.84	0.46
35:BA:1392:A:C6	35:BA:1393:A:C6	3.03	0.46
35:BA:1511:C:C5	35:BA:1512:U:C5	3.04	0.46
35:BA:1696:G:H2'	35:BA:1697:G:O4'	2.15	0.46
35:BA:1701:A:H5'	35:BA:1702:G:OP2	2.16	0.46
35:BA:1949:G:H2'	35:BA:1950:G:C8	2.50	0.46
35:BA:2115:G:H4'	35:BA:2167:U:O2	2.15	0.46
35:BA:2332:U:H4'	35:BA:2336:A:N6	2.31	0.46
35:BA:2341:G:H2'	35:BA:2342:C:C6	2.51	0.46
35:BA:2348:U:C2'	35:BA:2349:G:H5'	2.46	0.46
35:BA:2443:C:H3'	35:BA:2443:C:C6	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2822:G:H5''	39:BE:159:HIS:NE2	2.31	0.46
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.51	0.46
35:BA:2850:A:H2'	35:BA:2851:A:O4'	2.16	0.46
36:BB:58:A:C8	36:BB:59:A:N7	2.84	0.46
36:BB:116:G:C2	36:BB:117:G:C8	3.04	0.46
39:BE:4:ILE:H	39:BE:81:ILE:HD11	1.80	0.46
39:BE:44:TYR:O	39:BE:45:THR:CB	2.63	0.46
41:BG:107:LEU:HD11	41:BG:178:PHE:CE1	2.48	0.46
43:BJ:55:UNK:O	43:BJ:84:UNK:N	2.48	0.46
47:BP:31:ALA:C	47:BP:33:ARG:H	2.21	0.46
47:BP:71:VAL:C	47:BP:73:GLY:N	2.72	0.46
47:BP:122:PRO:HA	47:BP:141:ALA:O	2.15	0.46
48:BQ:1:MET:HG3	48:BQ:2:LEU:N	2.31	0.46
48:BQ:43:THR:O	48:BQ:46:GLN:HB2	2.16	0.46
48:BQ:59:ARG:O	48:BQ:60:ARG:C	2.59	0.46
48:BQ:127:ILE:HG13	48:BQ:128:LYS:O	2.15	0.46
51:BT:66:VAL:O	51:BT:66:VAL:HG23	2.16	0.46
51:BT:132:LYS:H	51:BT:132:LYS:CE	2.29	0.46
52:BU:45:TYR:O	52:BU:48:ALA:HB3	2.15	0.46
52:BU:74:LEU:CD1	52:BU:75:ASN:N	2.79	0.46
52:BU:112:ARG:O	52:BU:115:ALA:CB	2.63	0.46
54:BW:29:LEU:HD23	54:BW:33:ARG:HH11	1.80	0.46
57:BZ:133:ILE:C	57:BZ:134:PRO:O	2.59	0.46
1:AA:61:G:H4'	1:AA:386:C:O2'	2.16	0.46
1:AA:275:G:C4	1:AA:276:G:C8	3.04	0.46
1:AA:276:G:O2'	17:AQ:68:ARG:NH1	2.49	0.46
1:AA:683:G:C6	1:AA:684:A:C6	3.04	0.46
1:AA:896:C:C6	1:AA:896:C:H3'	2.50	0.46
1:AA:994:A:C2	1:AA:995:C:C5	3.04	0.46
1:AA:998:G:C6	1:AA:999:C:N4	2.84	0.46
1:AA:1000:U:N3	1:AA:1042:G:N2	2.64	0.46
1:AA:1203:C:C5	1:AA:1204:A:N7	2.83	0.46
1:AA:1424:C:O2'	1:AA:1425:U:H5'	2.16	0.46
1:AA:1498:U:C5	23:AX:17:U:H4'	2.50	0.46
3:AC:21:ARG:O	3:AC:22:TRP:HD1	1.98	0.46
4:AD:20:TYR:O	4:AD:21:LEU:HD23	2.16	0.46
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.98	0.46
4:AD:141:ARG:O	4:AD:185:PHE:HD2	1.98	0.46
5:AE:107:ARG:O	5:AE:109:ILE:N	2.49	0.46
9:AI:127:LYS:CG	9:AI:128:ARG:N	2.75	0.46
12:AL:85:ILE:CG2	12:AL:86:ARG:N	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:129:ALA:N	24:AY:487:ARG:HH12	2.13	0.46
13:AM:16:ASP:HB3	13:AM:34:LEU:CD1	2.47	0.46
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.98	0.46
14:AN:33:VAL:HA	14:AN:39:LEU:O	2.16	0.46
15:AO:12:ILE:HD11	15:AO:31:LEU:CD2	2.45	0.46
15:AO:39:LEU:HB2	15:AO:56:LEU:HD21	1.87	0.46
17:AQ:34:LYS:O	17:AQ:36:ILE:HG12	2.15	0.46
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.40	0.46
20:AT:74:LYS:HG2	20:AT:75:ASN:H	1.80	0.46
24:AY:69:SER:N	58:AY:1000:GCP:O3G	2.49	0.46
24:AY:76:GLN:CG	24:AY:85:ASN:ND2	2.79	0.46
24:AY:122:ARG:HA	24:AY:122:ARG:NE	2.31	0.46
24:AY:131:ARG:NH1	24:AY:131:ARG:HG2	2.30	0.46
24:AY:177:LYS:HZ1	42:BH:110:SER:HB3	1.80	0.46
24:AY:216:ASP:O	24:AY:220:GLY:C	2.59	0.46
25:B0:24:LYS:O	25:B0:25:ARG:HD3	2.16	0.46
33:B8:3:LYS:CD	35:BA:242:G:O5'	2.52	0.46
33:B8:22:VAL:HG21	33:B8:53:PRO:CB	2.46	0.46
34:B9:11:CYS:SG	34:B9:12:ASP:N	2.89	0.46
35:BA:246:C:H5'	47:BP:71:VAL:HG23	1.98	0.46
35:BA:556:G:C6	35:BA:557:U:O4	2.69	0.46
35:BA:660:G:O2'	35:BA:661:C:H5'	2.16	0.46
35:BA:718:A:C2'	35:BA:719:C:H5'	2.46	0.46
35:BA:941:A:N1	35:BA:942:G:C2	2.84	0.46
35:BA:1139:G:OP1	45:BN:102:ALA:HA	2.16	0.46
35:BA:1142(A):A:H8	35:BA:1142(A):A:H5'	1.79	0.46
35:BA:1155:A:C2	35:BA:1157:G:C8	3.04	0.46
35:BA:1202:C:HO2'	40:BF:184:TYR:HH	1.60	0.46
35:BA:1385:G:C4	35:BA:1386:C:C5	3.04	0.46
35:BA:1614:A:C2	35:BA:1615:C:C5	3.04	0.46
35:BA:1764:G:C2	35:BA:1765:C:C2	3.04	0.46
35:BA:1824:G:O2'	35:BA:1825:A:H5'	2.16	0.46
35:BA:1826:G:C4'	38:BD:242:ARG:HH21	2.28	0.46
35:BA:1832:C:C5	35:BA:1833:U:C5	3.04	0.46
35:BA:1906:G:C2	35:BA:1907:G:C4	3.04	0.46
35:BA:1925:C:O2'	35:BA:1926:U:H6	1.94	0.46
35:BA:1987:G:C2	35:BA:1988:C:C2	3.04	0.46
35:BA:1988:C:O2'	35:BA:1989:G:H5'	2.16	0.46
35:BA:1998:G:H2'	35:BA:1999:C:H5'	1.98	0.46
35:BA:2143:C:OP1	35:BA:2182:G:H4'	2.16	0.46
35:BA:2407:G:H2'	35:BA:2408:U:H6	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2475:C:H2'	35:BA:2477:C:OP1	2.15	0.46
35:BA:2740:A:C6	35:BA:2741:A:C6	3.04	0.46
35:BA:2743:C:C2	35:BA:2762:G:N2	2.84	0.46
35:BA:2748:A:H2	42:BH:63:SER:HG	1.60	0.46
35:BA:2787:C:O2	35:BA:2787:C:C2'	2.63	0.46
35:BA:2791:C:H4'	35:BA:2792:G:O5'	2.15	0.46
35:BA:2818:G:O2'	35:BA:2837:G:H5'	2.16	0.46
35:BA:2849:U:O2	35:BA:2866:U:H1'	2.16	0.46
38:BD:213:ARG:O	38:BD:216:GLY:N	2.45	0.46
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.98	0.46
39:BE:156:MET:HB3	39:BE:157:ALA:H	1.41	0.46
39:BE:179:GLU:O	39:BE:180:ASN:CB	2.64	0.46
40:BF:57:VAL:CG1	40:BF:58:ALA:N	2.79	0.46
41:BG:82:LEU:CD2	41:BG:86:MET:HE2	2.44	0.46
41:BG:138:GLN:HG3	41:BG:139:LEU:N	2.29	0.46
45:BN:97:ARG:C	45:BN:99:LEU:N	2.74	0.46
45:BN:97:ARG:HA	45:BN:100:GLU:CG	2.46	0.46
45:BN:99:LEU:HA	45:BN:102:ALA:HB3	1.98	0.46
47:BP:21:ARG:O	47:BP:22:GLY:C	2.59	0.46
48:BQ:31:ASP:O	48:BQ:32:TYR:CG	2.69	0.46
49:BR:18:LEU:HD11	49:BR:22:ARG:NE	2.31	0.46
57:BZ:19:ARG:C	57:BZ:21:ALA:N	2.73	0.46
57:BZ:23:LYS:HA	57:BZ:40:ASP:HA	1.98	0.46
57:BZ:69:THR:C	57:BZ:70:LEU:CD2	2.89	0.46
57:BZ:177:PRO:O	57:BZ:178:GLU:HG2	2.15	0.46
1:AA:19:C:O2	1:AA:572:A:H2	1.99	0.45
1:AA:220:G:H2'	1:AA:221:C:H5'	1.97	0.45
1:AA:414:A:C5	1:AA:431:A:C2	3.04	0.45
1:AA:416:G:C6	1:AA:417:C:C4	3.04	0.45
1:AA:748:C:H1'	1:AA:749:C:H5	1.80	0.45
1:AA:775:G:N2	1:AA:776:G:H1'	2.31	0.45
1:AA:788:U:H2'	1:AA:789:U:O4'	2.16	0.45
1:AA:861:G:N2	1:AA:872:A:C8	2.84	0.45
1:AA:939:G:OP1	7:AG:95:ARG:NH2	2.46	0.45
1:AA:1293:G:H2'	1:AA:1294:G:C8	2.51	0.45
1:AA:1335:C:O2'	1:AA:1336:C:OP2	2.31	0.45
1:AA:1350:A:O2'	7:AG:33:ASP:OD1	2.31	0.45
2:AB:29:ALA:O	2:AB:32:ILE:CG2	2.62	0.45
5:AE:107:ARG:CG	5:AE:108:ALA:N	2.78	0.45
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.81	0.45
7:AG:106:GLN:O	7:AG:107:ALA:C	2.59	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.16	0.45
11:AK:82:VAL:CG2	11:AK:83:ILE:N	2.78	0.45
13:AM:65:LYS:HD3	13:AM:69:GLU:O	2.16	0.45
15:AO:42:HIS:CD2	15:AO:42:HIS:O	2.63	0.45
15:AO:82:ILE:HD11	15:AO:87:ILE:HG13	1.98	0.45
18:AR:33:ASP:O	18:AR:36:ASN:OD1	2.34	0.45
19:AS:51:VAL:CG1	19:AS:75:ALA:CB	2.94	0.45
20:AT:10:LEU:O	20:AT:12:ALA:N	2.49	0.45
21:AU:17:THR:O	21:AU:22:ARG:HD3	2.16	0.45
22:AV:52:G:C6	22:AV:63:G:C6	3.04	0.45
22:AV:69:C:HO2'	22:AV:70:G:H5''	1.75	0.45
23:AX:14:A:H2'	23:AX:15:A:H5''	1.97	0.45
24:AY:10:VAL:C	24:AY:279:PRO:HG3	2.41	0.45
24:AY:19:ILE:O	24:AY:19:ILE:CG1	2.65	0.45
24:AY:19:ILE:HB	24:AY:126:LEU:HB3	1.97	0.45
24:AY:90:PRO:CD	24:AY:90:PRO:O	2.63	0.45
26:B1:76:ARG:HB3	35:BA:271(Q):G:O3'	2.17	0.45
27:B2:25:VAL:HG21	27:B2:60:LEU:HB3	1.97	0.45
27:B2:37:PHE:C	27:B2:39:ALA:H	2.22	0.45
27:B2:57:ILE:O	27:B2:58:ALA:O	2.33	0.45
28:B3:4:LEU:O	28:B3:36:VAL:CA	2.61	0.45
28:B3:11:SER:HB2	35:BA:988:A:C5'	2.46	0.45
28:B3:52:HIS:CE1	36:BB:83:G:C5'	2.99	0.45
31:B6:36:LEU:CD2	31:B6:36:LEU:C	2.89	0.45
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.98	0.45
35:BA:83:G:N2	35:BA:103:A:OP2	2.50	0.45
35:BA:575:A:C2'	35:BA:576:U:O5'	2.64	0.45
35:BA:579:G:C6	35:BA:580:C:N4	2.84	0.45
35:BA:616:G:H5'	40:BF:107:LYS:HZ3	1.81	0.45
35:BA:687:C:C2'	35:BA:688:U:H5'	2.46	0.45
35:BA:804:A:H2'	35:BA:806:C:C4	2.51	0.45
35:BA:910:A:H62	48:BQ:13:GLN:H	1.64	0.45
35:BA:986:C:C2'	35:BA:987:G:H5'	2.46	0.45
35:BA:1084:A:OP1	43:BJ:54:UNK:O	2.35	0.45
35:BA:1380:G:H2'	35:BA:1381:G:H8	1.81	0.45
35:BA:1925:C:C2'	35:BA:1925:C:O2	2.64	0.45
35:BA:1930:G:HO2'	35:BA:1968:G:H1	1.41	0.45
35:BA:2053:G:O3'	39:BE:145:LYS:HD3	2.16	0.45
35:BA:2063:C:O2	35:BA:2451:A:C2	2.68	0.45
35:BA:2072:G:N1	35:BA:2438:U:C4	2.84	0.45
35:BA:2303:G:N2	35:BA:2314:C:C2	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2304:G:N2	35:BA:2313:C:C2	2.84	0.45
35:BA:2376:A:C2	35:BA:2377:A:H1'	2.51	0.45
35:BA:2435:A:H2'	35:BA:2436:G:O5'	2.15	0.45
35:BA:2438:U:OP1	35:BA:2600:A:H5'	2.16	0.45
35:BA:2648:C:O2'	35:BA:2649:U:H5'	2.16	0.45
37:BC:40:THR:HA	37:BC:177:LYS:CA	2.38	0.45
38:BD:33:LEU:HD13	38:BD:102:LYS:HD2	1.99	0.45
38:BD:89:SER:OG	38:BD:201:HIS:HD2	1.99	0.45
39:BE:45:THR:O	39:BE:46:ALA:CB	2.63	0.45
40:BF:162:LEU:HD12	40:BF:162:LEU:N	2.26	0.45
41:BG:95:ARG:O	41:BG:96:ARG:O	2.33	0.45
42:BH:94:TYR:O	42:BH:95:ARG:HG3	2.16	0.45
45:BN:90:MET:HE2	45:BN:93:THR:O	2.17	0.45
46:BO:37:ASP:O	46:BO:61:VAL:HG23	2.16	0.45
47:BP:23:PRO:HG2	47:BP:33:ARG:HE	1.81	0.45
48:BQ:16:ARG:CG	48:BQ:17:LEU:N	2.79	0.45
54:BW:5:ALA:O	54:BW:6:ILE:CB	2.64	0.45
56:BY:27:VAL:HG12	56:BY:28:LYS:N	2.31	0.45
57:BZ:10:ARG:HB3	57:BZ:36:LYS:CG	2.38	0.45
1:AA:245:C:C2	1:AA:284:G:C2	3.04	0.45
1:AA:274:A:O2'	1:AA:275:G:H8	1.97	0.45
1:AA:782:A:N7	1:AA:783:C:C4	2.84	0.45
1:AA:786:G:C2	1:AA:787:A:C8	3.04	0.45
1:AA:971:G:C4'	1:AA:972:C:H5''	2.45	0.45
1:AA:985:C:O5'	1:AA:985:C:H6	2.00	0.45
1:AA:1072:G:C5	1:AA:1073:U:C4	3.04	0.45
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.80	0.45
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.81	0.45
1:AA:1341:U:O2'	1:AA:1342:C:H5'	2.16	0.45
2:AB:20:GLU:HG2	2:AB:189:ASP:OD2	2.17	0.45
2:AB:41:ILE:HG22	2:AB:42:ILE:N	2.31	0.45
2:AB:212:GLN:C	2:AB:212:GLN:OE1	2.59	0.45
3:AC:150:LYS:HE3	3:AC:167:TRP:NE1	2.30	0.45
5:AE:94:ALA:CB	5:AE:98:THR:HG21	2.45	0.45
6:AF:8:ILE:HD11	6:AF:79:LEU:HD13	1.98	0.45
7:AG:8:GLU:HG3	7:AG:9:VAL:H	1.81	0.45
7:AG:72:ARG:N	7:AG:142:GLU:OE2	2.46	0.45
7:AG:117:ALA:O	7:AG:120:ILE:HB	2.16	0.45
10:AJ:65:LEU:O	10:AJ:65:LEU:CG	2.61	0.45
11:AK:60:ALA:O	11:AK:61:ALA:C	2.58	0.45
13:AM:11:ARG:O	13:AM:13:LYS:N	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:23:TYR:C	13:AM:23:TYR:CD1	2.94	0.45
16:AP:82:GLN:O	16:AP:83:GLU:HB2	2.16	0.45
19:AS:78:ARG:H	19:AS:81:ARG:NH1	2.14	0.45
24:AY:327:LYS:N	24:AY:357:GLU:HB3	2.32	0.45
24:AY:420:SER:HB2	24:AY:427:VAL:CG2	2.37	0.45
25:B0:47:PRO:HG2	25:B0:53:MET:HE2	1.98	0.45
27:B2:61:LEU:HD23	27:B2:64:LEU:HD12	1.98	0.45
29:B4:27:THR:O	29:B4:28:LYS:CB	2.64	0.45
34:B9:19:ARG:NH1	35:BA:2755:C:C2'	2.80	0.45
35:BA:18:C:N4	35:BA:19:C:N4	2.64	0.45
35:BA:59:U:H5'	35:BA:60:G:OP2	2.15	0.45
35:BA:61:G:H8	35:BA:61:G:O5'	2.00	0.45
35:BA:474:G:C5	35:BA:510:C:N4	2.84	0.45
35:BA:572:A:H5''	35:BA:573:G:OP2	2.15	0.45
35:BA:663:G:OP1	47:BP:20:GLY:O	2.34	0.45
35:BA:672:C:O2'	35:BA:673:C:H5''	2.15	0.45
35:BA:722:A:H2'	35:BA:723:G:C8	2.51	0.45
35:BA:792:G:C4	35:BA:2440:C:C2	3.04	0.45
35:BA:886:C:C5	35:BA:887:A:N7	2.84	0.45
35:BA:1055:G:N2	35:BA:1105:U:H1'	2.30	0.45
35:BA:1221:C:C2'	35:BA:1221(A):C:H6	2.20	0.45
35:BA:1246:A:N6	35:BA:1247:A:C6	2.84	0.45
35:BA:1344:G:H5'	35:BA:1384:A:C6	2.51	0.45
35:BA:1664:A:H2	46:BO:1:MET:CE	2.29	0.45
35:BA:1719:G:C2	35:BA:1720:U:C2	3.04	0.45
35:BA:2056:G:H2'	35:BA:2056:G:N3	2.30	0.45
35:BA:2095:C:H2'	35:BA:2096:U:H6	1.81	0.45
35:BA:2111:C:O2	35:BA:2111:C:H2'	2.15	0.45
35:BA:2189:U:C2'	35:BA:2190:G:H4'	2.47	0.45
35:BA:2331:G:C6	35:BA:2332:U:N3	2.85	0.45
35:BA:2628:C:O2'	35:BA:2781:A:H3'	2.16	0.45
37:BC:34:THR:O	37:BC:35:ALA:HB2	2.16	0.45
38:BD:224:ALA:O	38:BD:233:HIS:O	2.34	0.45
40:BF:113:ALA:HB1	40:BF:186:ILE:CG2	2.45	0.45
41:BG:80:PHE:HD1	41:BG:81:LYS:HG2	1.81	0.45
42:BH:54:ARG:HD2	42:BH:54:ARG:H	1.82	0.45
42:BH:55:PRO:HG2	42:BH:56:SER:H	1.80	0.45
43:BJ:45:UNK:O	43:BJ:49:UNK:N	2.50	0.45
48:BQ:26:TYR:HA	48:BQ:137:TYR:CD1	2.51	0.45
48:BQ:98:LYS:O	48:BQ:99:PRO:O	2.34	0.45
49:BR:101:ALA:O	49:BR:102:GLU:CB	2.63	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:68:GLN:O	50:BS:72:ALA:HB2	2.16	0.45
52:BU:50:ARG:O	52:BU:53:ARG:N	2.49	0.45
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG23	2.46	0.45
1:AA:19:C:OP1	5:AE:125:SER:OG	2.30	0.45
1:AA:126:G:H1	1:AA:235:C:N4	2.14	0.45
1:AA:296:U:O2'	1:AA:297:G:H5'	2.17	0.45
1:AA:373:A:C2	1:AA:374:A:C8	3.04	0.45
1:AA:658:G:H4'	15:AO:22:THR:HG22	1.99	0.45
1:AA:739:C:N3	1:AA:740:U:C5	2.84	0.45
1:AA:815:A:C2	1:AA:1527:C:O2	2.69	0.45
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.51	0.45
2:AB:21:ARG:HB3	2:AB:39:ILE:HG12	1.98	0.45
2:AB:142:LEU:HA	2:AB:145:LEU:CB	2.46	0.45
2:AB:178:ARG:C	2:AB:180:LEU:N	2.74	0.45
3:AC:3:ASN:O	3:AC:4:LYS:HB2	2.16	0.45
3:AC:25:GLY:O	3:AC:26:LYS:C	2.59	0.45
3:AC:31:HIS:O	3:AC:33:LEU:N	2.49	0.45
3:AC:32:LEU:O	3:AC:35:GLU:N	2.49	0.45
3:AC:82:GLU:O	3:AC:83:ARG:C	2.58	0.45
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.98	0.45
4:AD:190:ASP:OD1	4:AD:191:ARG:N	2.50	0.45
5:AE:84:PHE:CE2	5:AE:133:TYR:HD2	2.34	0.45
8:AH:5:PRO:CD	8:AH:6:ILE:HD12	2.45	0.45
11:AK:29:ILE:HA	11:AK:44:SER:HB2	1.98	0.45
13:AM:37:THR:O	13:AM:39:ILE:N	2.49	0.45
13:AM:79:LYS:O	13:AM:82:MET:N	2.49	0.45
15:AO:28:GLN:O	15:AO:32:LEU:N	2.40	0.45
18:AR:37:VAL:O	18:AR:38:GLU:C	2.59	0.45
22:AV:52:G:C2	22:AV:63:G:C4	3.03	0.45
24:AY:164:ILE:HD11	24:AY:251:ILE:CA	2.46	0.45
24:AY:327:LYS:HZ1	24:AY:344:ASP:CB	2.26	0.45
24:AY:443:VAL:O	24:AY:445:GLN:HG2	2.15	0.45
24:AY:513:LEU:HD13	24:AY:517:ARG:NH2	2.24	0.45
35:BA:245:G:O3'	47:BP:71:VAL:HA	2.17	0.45
35:BA:331:A:OP1	35:BA:1210:A:N6	2.49	0.45
35:BA:348:G:H2'	35:BA:349:G:O4'	2.16	0.45
35:BA:615:G:OP2	40:BF:40:GLN:CG	2.63	0.45
35:BA:672:C:C2	35:BA:809:G:N2	2.83	0.45
35:BA:696:G:N2	35:BA:697:C:C2	2.84	0.45
35:BA:781:A:H2'	35:BA:1777:U:O2'	2.15	0.45
35:BA:843:G:N2	35:BA:844:C:C2	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:874:G:C4	35:BA:875:G:C8	3.05	0.45
35:BA:1070:A:N1	44:BK:7:UNK:C	2.79	0.45
35:BA:1670:C:OP1	35:BA:1671:U:OP2	2.35	0.45
35:BA:1773:A:H2'	35:BA:1774:C:C5'	2.43	0.45
35:BA:1805:U:O5'	35:BA:1805:U:H6	2.00	0.45
35:BA:2188:C:H2'	35:BA:2189:U:N1	2.30	0.45
35:BA:2276:G:OP2	48:BQ:86:GLY:N	2.49	0.45
35:BA:2304:G:OP1	41:BG:124:SER:OG	2.30	0.45
35:BA:2403:C:C2	35:BA:2415:G:C2	3.04	0.45
35:BA:2502:G:H5''	35:BA:2503:A:H5''	1.97	0.45
35:BA:2581:G:H22	35:BA:2610:C:C2'	2.30	0.45
35:BA:2637:U:H5''	39:BE:82:ARG:HE	1.81	0.45
35:BA:2739:U:H5	35:BA:2763:G:N7	2.14	0.45
35:BA:2786:U:C2	35:BA:2787:C:C5	3.05	0.45
35:BA:2821:A:C6	35:BA:2822:G:C6	3.04	0.45
36:BB:15:A:OP1	36:BB:108:U:O2'	2.35	0.45
36:BB:21:G:C6	36:BB:22:U:C4	3.04	0.45
37:BC:14:VAL:HG21	37:BC:32:LEU:CD1	2.46	0.45
37:BC:20:TYR:HD1	37:BC:24:GLU:HB3	1.81	0.45
37:BC:64:LEU:HD22	37:BC:188:ASN:HB3	1.97	0.45
37:BC:86:ALA:O	37:BC:91:ALA:HB3	2.16	0.45
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.64	0.45
41:BG:133:LEU:HD11	41:BG:157:ILE:HB	1.98	0.45
42:BH:117:PRO:HB3	42:BH:123:PHE:HE1	1.81	0.45
45:BN:57:ALA:O	45:BN:58:ASP:C	2.57	0.45
45:BN:61:ARG:HH11	45:BN:61:ARG:CG	2.19	0.45
52:BU:10:ARG:O	52:BU:14:HIS:HB2	2.16	0.45
52:BU:101:ARG:HG3	52:BU:101:ARG:HH11	1.80	0.45
1:AA:14:U:N3	1:AA:17:U:OP2	2.49	0.45
1:AA:106:C:HO2'	1:AA:379:C:H5''	1.82	0.45
1:AA:112:G:H4'	1:AA:389:A:H4'	1.97	0.45
1:AA:116:A:H2'	1:AA:117:G:O4'	2.17	0.45
1:AA:122:G:C5	1:AA:123:C:C4	3.04	0.45
1:AA:332:G:C5	1:AA:333:G:N7	2.84	0.45
1:AA:667:G:N3	15:AO:49:ASP:OD2	2.49	0.45
1:AA:897:C:C5	1:AA:898:G:N7	2.85	0.45
1:AA:935:A:H2	1:AA:1383:C:N4	2.14	0.45
1:AA:951:G:C2	1:AA:952:U:C2	3.04	0.45
1:AA:1014:A:C4	19:AS:34:TRP:CE3	3.04	0.45
1:AA:1046:A:N3	1:AA:1046:A:H2'	2.32	0.45
1:AA:1048:G:C2	1:AA:1050:G:N7	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1304:G:C6	1:AA:1305:G:N1	2.83	0.45
1:AA:1352:C:H2'	1:AA:1352:C:O2	2.16	0.45
1:AA:1416:G:C6	1:AA:1417:G:C6	3.05	0.45
1:AA:1502:A:C2	1:AA:1504:G:N3	2.85	0.45
3:AC:52:LEU:HD12	3:AC:68:VAL:HG12	1.98	0.45
3:AC:70:VAL:O	3:AC:106:VAL:N	2.45	0.45
4:AD:5:ILE:CG2	4:AD:6:GLY:N	2.78	0.45
4:AD:111:ALA:HB2	4:AD:117:ALA:HA	1.98	0.45
7:AG:136:LYS:C	7:AG:138:LYS:N	2.71	0.45
8:AH:7:ALA:HA	8:AH:85:ARG:HD3	1.98	0.45
9:AI:43:ALA:O	9:AI:45:ALA:N	2.49	0.45
10:AJ:28:ARG:HG2	10:AJ:28:ARG:NH1	2.30	0.45
10:AJ:78:ASN:HD21	10:AJ:80:LYS:HB3	1.81	0.45
18:AR:37:VAL:HG22	18:AR:38:GLU:OE1	2.16	0.45
19:AS:38:SER:C	19:AS:70:LYS:HB3	2.42	0.45
20:AT:9:ASN:HB3	20:AT:13:LEU:HD11	1.99	0.45
22:AV:61:C:O2	22:AV:61:C:C2'	2.64	0.45
22:AV:61:C:H5'	22:AV:62:C:OP2	2.16	0.45
23:AX:12:A:N3	23:AX:12:A:C3'	2.76	0.45
24:AY:20:SER:O	24:AY:122:ARG:HB3	2.17	0.45
35:BA:413:C:O2'	35:BA:414:C:H5'	2.16	0.45
35:BA:529:A:N7	35:BA:2041:U:O4	2.50	0.45
35:BA:535:C:H2'	35:BA:536:A:H8	1.78	0.45
35:BA:576:U:H2'	35:BA:577:G:H8	1.74	0.45
35:BA:823:G:O2'	35:BA:824:A:H5'	2.17	0.45
35:BA:831:G:C5	35:BA:832:G:C8	3.04	0.45
35:BA:1032:A:N1	35:BA:1123:C:N3	2.64	0.45
35:BA:1331:A:O2'	35:BA:1332:G:C8	2.62	0.45
35:BA:1654:A:OP1	49:BR:2:ARG:C	2.59	0.45
35:BA:1789:A:H5''	38:BD:221:VAL:CG1	2.45	0.45
35:BA:1921:G:C2'	35:BA:1922:G:H5'	2.45	0.45
35:BA:2021:C:C4'	35:BA:2022:U:OP2	2.64	0.45
35:BA:2416:C:OP1	47:BP:64:LYS:O	2.35	0.45
35:BA:2459:A:C6	35:BA:2494:G:N3	2.85	0.45
35:BA:2705:A:C5	35:BA:2706:G:N7	2.85	0.45
35:BA:2758:A:H62	42:BH:67:LEU:CD1	2.25	0.45
35:BA:2809:A:H62	35:BA:2891:G:H2'	1.81	0.45
35:BA:2840:C:O3'	49:BR:53:HIS:NE2	2.50	0.45
36:BB:42:C:N4	41:BG:91:ARG:HD3	2.31	0.45
36:BB:87:G:C3'	36:BB:88:C:H5''	2.47	0.45
36:BB:92:C:OP1	48:BQ:19:GLY:CA	2.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:14:VAL:HG23	37:BC:32:LEU:CD2	2.47	0.45
37:BC:77:ILE:HB	37:BC:115:ALA:HA	1.96	0.45
38:BD:26:LYS:O	38:BD:27:THR:CB	2.65	0.45
40:BF:3:GLU:HA	40:BF:24:LEU:HB3	1.96	0.45
40:BF:170:LEU:HB3	40:BF:173:VAL:CG2	2.45	0.45
40:BF:181:LEU:HD12	40:BF:182:ASN:N	2.27	0.45
45:BN:111:PRO:O	45:BN:115:ARG:HB2	2.17	0.45
46:BO:39:ILE:CG1	46:BO:60:ALA:O	2.63	0.45
46:BO:67:LYS:HD2	46:BO:68:GLU:OE2	2.16	0.45
47:BP:55:ARG:C	47:BP:57:THR:N	2.73	0.45
48:BQ:32:TYR:CE2	48:BQ:111:GLU:HG3	2.51	0.45
48:BQ:118:LEU:HA	48:BQ:121:ALA:HB3	1.97	0.45
49:BR:63:ARG:HB2	49:BR:63:ARG:NH1	2.24	0.45
50:BS:19:LYS:HB3	50:BS:20:ARG:NH2	2.32	0.45
51:BT:7:ILE:O	51:BT:9:LEU:N	2.49	0.45
51:BT:100:TYR:O	51:BT:102:ILE:N	2.49	0.45
52:BU:113:ALA:O	52:BU:115:ALA:N	2.50	0.45
53:BV:4:ILE:CD1	53:BV:39:LEU:O	2.58	0.45
57:BZ:63:ASP:HB3	57:BZ:65:GLN:HG3	1.98	0.45
1:AA:109:A:O3'	1:AA:110:C:C6	2.67	0.45
1:AA:660:G:OP2	15:AO:5:LYS:HD3	2.16	0.45
1:AA:924:C:H2'	1:AA:925:G:H8	1.80	0.45
1:AA:1309:G:C6	1:AA:1310:G:C5	3.04	0.45
1:AA:1404:C:C1'	1:AA:1499:A:N1	2.79	0.45
1:AA:1431:C:C2	1:AA:1470:G:N2	2.85	0.45
1:AA:1514:C:N4	1:AA:1515:C:N4	2.64	0.45
2:AB:70:PHE:C	2:AB:71:VAL:HG23	2.41	0.45
3:AC:53:ALA:C	3:AC:54:ARG:O	2.60	0.45
3:AC:83:ARG:CG	3:AC:87:LEU:HD11	2.43	0.45
3:AC:108:ASN:HB3	3:AC:111:LEU:HD12	1.97	0.45
3:AC:121:ALA:HB2	3:AC:187:ALA:CB	2.46	0.45
4:AD:60:GLU:HG2	4:AD:202:LEU:CD1	2.41	0.45
5:AE:77:PRO:CD	5:AE:142:LEU:HD22	2.45	0.45
7:AG:120:ILE:O	7:AG:121:ALA:C	2.59	0.45
10:AJ:12:ASP:HB3	10:AJ:15:THR:OG1	2.16	0.45
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.31	0.45
11:AK:123:LYS:O	11:AK:123:LYS:HG2	2.16	0.45
15:AO:68:ARG:O	15:AO:71:GLN:HB3	2.17	0.45
17:AQ:67:LYS:O	17:AQ:68:ARG:CB	2.63	0.45
22:AV:33:U:C6	22:AV:33:U:C3'	2.99	0.45
22:AV:49:G:C2	22:AV:50:U:N1	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:146:ARG:HH11	24:AY:146:ARG:CG	2.07	0.45
24:AY:297:THR:OG1	24:AY:383:GLU:OE1	2.35	0.45
24:AY:360:TYR:CD1	24:AY:360:TYR:N	2.84	0.45
24:AY:398:PHE:HE2	24:AY:428:PHE:CE1	2.35	0.45
25:B0:60:PHE:C	25:B0:60:PHE:CD1	2.93	0.45
26:B1:41:ARG:NH2	35:BA:1365:A:OP1	2.39	0.45
29:B4:9:LEU:CD1	29:B4:25:TYR:HB3	2.46	0.45
30:B5:3:LYS:HE2	35:BA:2611:U:C2'	2.47	0.45
35:BA:82:G:H8	35:BA:82:G:OP2	1.99	0.45
35:BA:272(E):G:O2'	35:BA:272(F):C:H5'	2.16	0.45
35:BA:597:U:H4'	47:BP:15:ARG:CZ	2.46	0.45
35:BA:659:C:O2'	35:BA:660:G:C5'	2.62	0.45
35:BA:701:G:N2	35:BA:732:C:C2	2.84	0.45
35:BA:823:G:C6	35:BA:835:A:C2	3.04	0.45
35:BA:942:G:C6	35:BA:943:U:N3	2.85	0.45
35:BA:1027:A:C6	35:BA:1126:A:C4	3.04	0.45
35:BA:1125:G:C6	35:BA:1126:A:N6	2.85	0.45
35:BA:1155:A:OP2	52:BU:58:ARG:NH1	2.50	0.45
35:BA:1504:C:O2'	35:BA:1505:C:O5'	2.35	0.45
35:BA:1637:A:H4'	35:BA:2711:A:O2'	2.17	0.45
35:BA:1668:A:C2'	35:BA:1674:G:N7	2.80	0.45
35:BA:1759:A:H2'	35:BA:1760:A:C8	2.52	0.45
35:BA:1826:G:C5	35:BA:1827:C:C5	3.05	0.45
35:BA:1845:G:O2'	35:BA:1846:G:H5'	2.17	0.45
35:BA:2019:A:N6	35:BA:2020:A:N6	2.64	0.45
35:BA:2096:U:H2'	35:BA:2097:C:H6	1.81	0.45
35:BA:2190:G:H2'	35:BA:2190:G:N3	2.32	0.45
35:BA:2265:U:H2'	35:BA:2266:A:N7	2.31	0.45
35:BA:2422:A:C6	35:BA:2424:C:N3	2.85	0.45
35:BA:2628:C:O4'	35:BA:2781:A:C4	2.69	0.45
35:BA:2631:G:N2	35:BA:2788:C:H1'	2.31	0.45
35:BA:2686:G:C2	35:BA:2687:U:C2	3.04	0.45
35:BA:2762:G:H5''	35:BA:2762:G:H8	1.82	0.45
37:BC:222:VAL:O	37:BC:224:ILE:CG2	2.63	0.45
38:BD:97:TYR:O	38:BD:98:VAL:C	2.60	0.45
38:BD:131:LEU:HD13	38:BD:135:PHE:CB	2.47	0.45
38:BD:174:ILE:O	38:BD:175:LEU:HD23	2.16	0.45
40:BF:4:VAL:O	40:BF:4:VAL:HG12	2.15	0.45
40:BF:82:ILE:HG13	40:BF:83:PHE:H	1.82	0.45
40:BF:153:SER:HA	40:BF:172:TRP:HB2	1.98	0.45
41:BG:143:GLU:O	41:BG:144:ILE:CG2	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:46:GLN:HA	48:BQ:49:ALA:CB	2.47	0.45
49:BR:9:LYS:HD2	49:BR:43:GLU:HB2	1.97	0.45
49:BR:12:ARG:HB3	49:BR:16:HIS:HD2	1.82	0.45
49:BR:26:LYS:HG2	49:BR:70:LEU:HD22	1.98	0.45
49:BR:45:ARG:C	49:BR:47:PHE:H	2.24	0.45
49:BR:67:LEU:HD22	49:BR:76:VAL:HB	1.98	0.45
50:BS:25:ARG:HG2	50:BS:25:ARG:NH1	2.30	0.45
51:BT:63:VAL:N	51:BT:74:ARG:O	2.43	0.45
52:BU:31:SER:CB	52:BU:34:LYS:CB	2.81	0.45
52:BU:92:ARG:O	52:BU:93:LYS:C	2.58	0.45
54:BW:3:ALA:HB3	54:BW:107:LEU:CD1	2.46	0.45
56:BY:10:GLY:C	56:BY:27:VAL:HG13	2.41	0.45
56:BY:45:VAL:CG1	56:BY:60:PHE:HD2	2.29	0.45
57:BZ:17:ALA:O	57:BZ:18:LEU:C	2.59	0.45
57:BZ:35:ARG:NE	57:BZ:35:ARG:CA	2.71	0.45
57:BZ:42:VAL:CG1	57:BZ:43:GLU:N	2.78	0.45
1:AA:32:A:N6	1:AA:33:A:N1	2.65	0.45
1:AA:59:A:C6	1:AA:331:G:N3	2.85	0.45
1:AA:406:G:H1'	1:AA:495:A:N1	2.32	0.45
1:AA:495:A:O2'	1:AA:496:A:P	2.73	0.45
1:AA:519:C:O2'	1:AA:520:A:H5'	2.17	0.45
1:AA:620:C:H4'	4:AD:138:TYR:HD1	1.82	0.45
1:AA:929:G:C2'	1:AA:930:C:H5'	2.47	0.45
1:AA:998:G:C2	1:AA:999:C:C2	3.05	0.45
1:AA:1015:A:N6	1:AA:1016:A:C6	2.84	0.45
1:AA:1091:U:N3	1:AA:1095:U:C4	2.84	0.45
1:AA:1200:C:OP1	1:AA:1201:A:C2'	2.64	0.45
1:AA:1226:C:H5	13:AM:104:ARG:HB2	1.81	0.45
1:AA:1286:A:O2'	1:AA:1287:A:OP2	2.31	0.45
1:AA:1308:U:O5'	1:AA:1308:U:H6	1.99	0.45
1:AA:1483:A:H2	35:BA:1960:A:C1'	2.29	0.45
2:AB:92:TYR:CD1	2:AB:151:GLY:HA3	2.52	0.45
2:AB:198:ASP:OD1	2:AB:198:ASP:N	2.49	0.45
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.17	0.45
3:AC:64:VAL:CG1	3:AC:65:ALA:H	2.26	0.45
3:AC:95:THR:CG2	3:AC:97:LYS:HG3	2.47	0.45
3:AC:109:PRO:O	3:AC:111:LEU:N	2.48	0.45
5:AE:48:ALA:O	5:AE:49:PRO:C	2.58	0.45
8:AH:103:VAL:HG21	8:AH:109:ILE:O	2.17	0.45
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.47	0.45
11:AK:34:ASP:OD1	11:AK:34:ASP:C	2.59	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:126:LYS:HB3	24:AY:487:ARG:CZ	2.41	0.45
13:AM:29:ARG:NE	13:AM:64:TRP:CD2	2.84	0.45
13:AM:96:LEU:C	13:AM:110:ARG:HE	2.24	0.45
16:AP:65:GLN:HA	16:AP:66:PRO:HD3	1.70	0.45
19:AS:41:VAL:CB	19:AS:44:MET:HG2	2.44	0.45
19:AS:51:VAL:CB	19:AS:58:VAL:HG22	2.42	0.45
23:AX:17:U:H2'	23:AX:18:G:H5'	1.98	0.45
24:AY:6:TYR:O	24:AY:360:TYR:CE2	2.70	0.45
24:AY:25:GLY:CA	24:AY:29:ILE:HG13	2.43	0.45
24:AY:171:TRP:CZ2	24:AY:234:VAL:HG13	2.51	0.45
24:AY:295:LYS:O	24:AY:323:GLY:CA	2.63	0.45
24:AY:401:ILE:HD12	24:AY:461:ALA:HB3	1.98	0.45
24:AY:513:LEU:O	24:AY:517:ARG:CB	2.65	0.45
25:B0:20:ARG:HD2	25:B0:20:ARG:H	1.81	0.45
27:B2:30:ARG:NH2	55:BX:5:TYR:OH	2.49	0.45
27:B2:65:ASN:O	27:B2:67:LYS:N	2.50	0.45
28:B3:8:LEU:HD22	28:B3:31:LEU:CA	2.46	0.45
29:B4:7:PRO:HD2	41:BG:65:GLY:O	2.17	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N1	2.31	0.45
30:B5:28:PRO:HG2	54:BW:35:ILE:HD12	1.98	0.45
30:B5:57:VAL:HG12	30:B5:58:LEU:CD1	2.36	0.45
32:B7:37:LYS:NZ	32:B7:39:ARG:NH2	2.64	0.45
33:B8:8:LYS:O	33:B8:11:LYS:HB3	2.17	0.45
34:B9:5:ALA:HB1	35:BA:1125:G:O2'	2.17	0.45
34:B9:27:CYS:SG	34:B9:32:HIS:ND1	2.90	0.45
35:BA:242:G:O3'	35:BA:243:U:H6	2.00	0.45
35:BA:307:G:C2'	35:BA:309:G:OP2	2.61	0.45
35:BA:715:G:C2	35:BA:716:A:C4	3.05	0.45
35:BA:1054:A:C2	35:BA:1055:G:N7	2.85	0.45
35:BA:1313:U:C4'	35:BA:1333:C:OP2	2.64	0.45
35:BA:1358:G:O2'	35:BA:1359:A:H5''	2.15	0.45
35:BA:1392:A:N6	35:BA:1393:A:N6	2.64	0.45
35:BA:1823:G:C6	35:BA:1824:G:C5	3.05	0.45
35:BA:1931:U:O2'	35:BA:1932:A:H5'	2.16	0.45
35:BA:2100:G:H5'	35:BA:2101:G:OP2	2.16	0.45
35:BA:2189:U:C3'	35:BA:2190:G:H4'	2.46	0.45
35:BA:2234:G:H2'	35:BA:2235:G:H8	1.82	0.45
35:BA:2346:A:H5'	35:BA:2383:G:H1'	1.97	0.45
35:BA:2509:G:C2'	35:BA:2510:C:H5'	2.47	0.45
35:BA:2580:U:H5''	39:BE:131:ALA:HB2	1.99	0.45
35:BA:2770:G:C5'	35:BA:2771:C:OP2	2.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2794:C:H42	35:BA:2801(A):A:N6	2.15	0.45
37:BC:96:GLY:C	37:BC:97:GLU:HG2	2.42	0.45
37:BC:100:ILE:O	37:BC:100:ILE:CG2	2.62	0.45
38:BD:88:ARG:CD	38:BD:88:ARG:N	2.80	0.45
38:BD:91:ARG:HD3	38:BD:198:ASN:CB	2.47	0.45
38:BD:176:ARG:HA	38:BD:182:LEU:HG	1.98	0.45
39:BE:48:GLN:CD	39:BE:78:LEU:HD13	2.42	0.45
40:BF:80:ALA:O	40:BF:81:PRO:C	2.57	0.45
40:BF:160:ASN:HD21	40:BF:162:LEU:HD13	1.81	0.45
41:BG:71:THR:CB	41:BG:89:GLY:O	2.62	0.45
42:BH:54:ARG:H	42:BH:54:ARG:CD	2.30	0.45
46:BO:64:ARG:CZ	51:BT:70:VAL:HG21	2.46	0.45
48:BQ:120:ILE:O	48:BQ:121:ALA:C	2.60	0.45
49:BR:26:LYS:CE	49:BR:71:GLN:H	2.30	0.45
49:BR:87:TYR:HE2	49:BR:117:VAL:CG1	2.29	0.45
51:BT:24:PRO:HB2	51:BT:94:ALA:CB	2.46	0.45
51:BT:28:VAL:HG23	51:BT:47:GLY:O	2.16	0.45
52:BU:12:ARG:HD2	52:BU:13:LYS:HZ3	1.81	0.45
52:BU:46:ALA:O	52:BU:47:TYR:C	2.59	0.45
52:BU:59:ARG:C	52:BU:61:TRP:N	2.72	0.45
54:BW:46:PHE:O	54:BW:50:VAL:HG12	2.16	0.45
56:BY:64:GLU:O	56:BY:65:ALA:CB	2.65	0.45
57:BZ:7:ALA:HB3	57:BZ:61:LEU:HD22	1.97	0.45
57:BZ:28:MET:SD	57:BZ:28:MET:C	3.00	0.45
57:BZ:63:ASP:CB	57:BZ:65:GLN:HG3	2.47	0.45
57:BZ:151:HIS:HA	57:BZ:171:ILE:CD1	2.47	0.45
1:AA:55:A:C2'	1:AA:56:U:H5'	2.47	0.45
1:AA:56:U:H2'	1:AA:57:G:C8	2.51	0.45
1:AA:166:G:H2'	1:AA:167:G:H8	1.81	0.45
1:AA:186:C:O2'	20:AT:85:MET:SD	2.72	0.45
1:AA:220:G:N2	1:AA:221:C:H1'	2.31	0.45
1:AA:420:U:H1'	1:AA:424:G:N2	2.32	0.45
1:AA:758:G:H4'	1:AA:880:C:C4'	2.46	0.45
1:AA:774:G:N3	1:AA:775:G:C8	2.85	0.45
1:AA:1301:U:O2'	1:AA:1302:U:O5'	2.27	0.45
1:AA:1342:C:H4'	9:AI:125:TYR:H	1.81	0.45
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.16	0.45
2:AB:8:LYS:C	2:AB:10:LEU:N	2.67	0.45
2:AB:19:HIS:O	2:AB:20:GLU:C	2.59	0.45
2:AB:27:LYS:H	2:AB:27:LYS:HG3	1.42	0.45
2:AB:92:TYR:C	2:AB:93:VAL:HG12	2.40	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.47	0.45
2:AB:180:LEU:O	2:AB:181:PHE:C	2.59	0.45
4:AD:32:ALA:O	4:AD:33:MET:C	2.60	0.45
9:AI:47:LEU:HG	9:AI:50:LEU:CD1	2.45	0.45
9:AI:112:LYS:HD3	9:AI:112:LYS:O	2.17	0.45
11:AK:24:SER:OG	11:AK:27:ASN:O	2.30	0.45
12:AL:126:LYS:HB2	24:AY:487:ARG:NE	2.23	0.45
16:AP:60:LEU:CD1	16:AP:79:VAL:HG12	2.38	0.45
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.15	0.45
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.50	0.45
20:AT:45:GLN:O	20:AT:45:GLN:NE2	2.49	0.45
21:AU:18:TYR:CE1	21:AU:24:ARG:NH1	2.85	0.45
24:AY:10:VAL:HG13	24:AY:360:TYR:CB	2.46	0.45
24:AY:29:ILE:HG12	24:AY:259:ALA:HB2	1.97	0.45
24:AY:207:VAL:O	24:AY:208:LYS:O	2.35	0.45
25:B0:18:ALA:HB1	35:BA:2271:G:H5''	1.97	0.45
25:B0:72:ARG:CB	25:B0:75:LEU:HB3	2.47	0.45
30:B5:33:CYS:O	30:B5:35:GLU:N	2.45	0.45
35:BA:65:C:O2'	35:BA:456:C:O2	2.33	0.45
35:BA:131:G:H2'	35:BA:132:G:H8	1.80	0.45
35:BA:220:G:H2'	35:BA:427:U:O4	2.16	0.45
35:BA:247:G:C8	35:BA:249:C:C6	3.05	0.45
35:BA:587:C:N4	47:BP:33:ARG:CB	2.79	0.45
35:BA:614:U:C2'	35:BA:614(A):U:H5'	2.46	0.45
35:BA:863:A:P	48:BQ:22:LYS:HB2	2.57	0.45
35:BA:976:C:H4'	35:BA:1156:A:H62	1.81	0.45
35:BA:1206:G:H2'	35:BA:1207:C:C6	2.51	0.45
35:BA:1257:C:C1'	40:BF:83:PHE:HA	2.46	0.45
35:BA:1267:U:C5	35:BA:2012:G:N2	2.85	0.45
35:BA:1394:U:H6	35:BA:1394:U:H3'	1.82	0.45
35:BA:1444:G:H2'	35:BA:1445(A):C:C5	2.51	0.45
35:BA:1636:C:H2'	35:BA:1637:A:C8	2.51	0.45
35:BA:1636:C:O4'	35:BA:1761:C:H1'	2.16	0.45
35:BA:1668:A:C8	35:BA:1674:G:C6	3.05	0.45
35:BA:1676:A:C5	35:BA:1677:A:C5	3.05	0.45
35:BA:1779:U:C5	35:BA:1783:A:N7	2.85	0.45
35:BA:2131:G:H3'	35:BA:2131:G:OP2	2.17	0.45
35:BA:2325:G:C5	35:BA:2326:C:C5	3.05	0.45
35:BA:2453:A:H2	35:BA:2504:U:H3	1.64	0.45
35:BA:2574:G:C2	35:BA:2575:C:C2	3.05	0.45
35:BA:2793:G:O2'	35:BA:2794:C:H5''	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:42:C:O2	41:BG:66:GLN:NE2	2.50	0.45
36:BB:67:G:C2	36:BB:68:C:C6	3.05	0.45
37:BC:213:TYR:HD2	37:BC:221:SER:CB	2.30	0.45
38:BD:158:ALA:O	38:BD:161:THR:OG1	2.34	0.45
38:BD:259:THR:O	38:BD:260:ARG:C	2.57	0.45
39:BE:11:MET:HA	39:BE:23:VAL:O	2.16	0.45
39:BE:111:ARG:HD2	39:BE:111:ARG:N	2.31	0.45
42:BH:139:GLN:HG3	42:BH:140:LYS:N	2.30	0.45
46:BO:71:ARG:HB3	46:BO:72:PRO:HD2	1.99	0.45
47:BP:98:GLU:O	47:BP:102:ARG:NH2	2.50	0.45
47:BP:113:LYS:HB2	47:BP:129:ALA:CB	2.28	0.45
48:BQ:14:ARG:H	48:BQ:14:ARG:HG3	1.36	0.45
49:BR:24:GLN:NE2	49:BR:36:THR:HG21	2.32	0.45
49:BR:27:SER:O	49:BR:30:THR:CG2	2.65	0.45
51:BT:32:TYR:CG	51:BT:33:LYS:N	2.85	0.45
51:BT:102:ILE:O	51:BT:102:ILE:CG1	2.65	0.45
52:BU:61:TRP:CH2	52:BU:94:ASN:OD1	2.70	0.45
55:BX:57:LEU:HD22	55:BX:57:LEU:C	2.41	0.45
56:BY:26:LYS:N	56:BY:40:GLU:OE2	2.47	0.45
56:BY:79:CYS:SG	56:BY:80:GLY:N	2.89	0.45
57:BZ:24:LEU:HD23	57:BZ:24:LEU:C	2.42	0.45
57:BZ:40:ASP:OD1	57:BZ:40:ASP:C	2.60	0.45
57:BZ:140:ASP:C	57:BZ:141:VAL:HG23	2.40	0.45
1:AA:189(C):C:O5'	1:AA:189(C):C:H6	2.00	0.45
1:AA:276:G:C6	1:AA:277:C:C5	3.04	0.45
1:AA:587:G:N2	1:AA:754:C:OP2	2.48	0.45
1:AA:633:G:H3'	1:AA:634:C:C5	2.52	0.45
1:AA:865:A:H5'	1:AA:1078:U:O4	2.16	0.45
1:AA:883:C:N3	1:AA:884:U:O4	2.50	0.45
1:AA:955:U:O2'	1:AA:956:U:H5'	2.17	0.45
1:AA:1048:G:C2	1:AA:1050:G:C5	3.05	0.45
1:AA:1309:G:C6	1:AA:1329:A:C6	3.05	0.45
2:AB:177:ALA:HB3	2:AB:184:VAL:CG2	2.47	0.45
4:AD:31:CYS:O	4:AD:32:ALA:HB2	2.16	0.45
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.16	0.45
5:AE:24:ARG:CG	5:AE:24:ARG:NH1	2.77	0.45
5:AE:51:VAL:O	5:AE:52:PRO:C	2.60	0.45
5:AE:110:LEU:HA	5:AE:113:ALA:HB2	1.98	0.45
5:AE:150:ARG:NH1	5:AE:150:ARG:HB2	2.32	0.45
7:AG:43:PHE:O	7:AG:46:ALA:N	2.49	0.45
8:AH:14:ARG:HG3	8:AH:83:ILE:CG2	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:106:GLY:C	8:AH:108:GLY:N	2.75	0.45
11:AK:86:GLY:H	11:AK:112:THR:HG23	1.81	0.45
12:AL:119:LYS:O	12:AL:120:TYR:CG	2.70	0.45
13:AM:78:ILE:CG2	13:AM:79:LYS:N	2.80	0.45
14:AN:4:LYS:HB2	14:AN:4:LYS:HZ2	1.81	0.45
14:AN:35:ARG:O	14:AN:36:PHE:C	2.58	0.45
16:AP:18:ARG:O	16:AP:20:VAL:HG12	2.17	0.45
20:AT:31:SER:O	20:AT:32:ALA:C	2.58	0.45
22:AV:4:G:H2'	22:AV:5:G:C8	2.51	0.45
22:AV:22:G:H2'	22:AV:22:G:N3	2.32	0.45
22:AV:76:A:O2'	35:BA:2395:C:C4	2.65	0.45
24:AY:70:ILE:HG23	24:AY:95:PHE:CD1	2.52	0.45
24:AY:115:ALA:HB1	24:AY:148:ILE:CB	2.46	0.45
24:AY:119:VAL:HG22	24:AY:124:ARG:HG3	1.93	0.45
24:AY:158:VAL:HG12	24:AY:164:ILE:HG22	1.99	0.45
24:AY:189:GLU:HB2	24:AY:206:ILE:HG22	1.98	0.45
24:AY:347:THR:HB	24:AY:365:LEU:HG	1.99	0.45
25:B0:36:ILE:HG22	25:B0:60:PHE:HB3	1.98	0.45
26:B1:11:ARG:NH1	26:B1:12:PRO:HD2	2.31	0.45
30:B5:13:LYS:C	30:B5:16:ARG:H	2.25	0.45
31:B6:15:GLU:OE2	31:B6:41:PRO:HB2	2.17	0.45
35:BA:143:G:H1'	55:BX:37:THR:CG2	2.23	0.45
35:BA:282:A:O2'	35:BA:283:A:H8	2.00	0.45
35:BA:307:G:H22	35:BA:310:A:H5''	1.81	0.45
35:BA:447:A:C4'	35:BA:449:A:N7	2.80	0.45
35:BA:481:G:H1'	35:BA:506:G:N2	2.31	0.45
35:BA:613:G:H8	35:BA:613:G:C5'	2.12	0.45
35:BA:903:C:H6	35:BA:903:C:O5'	2.00	0.45
35:BA:993:G:O4'	53:BV:87:HIS:NE2	2.49	0.45
35:BA:1097:U:O2'	44:BK:6:UNK:CA	2.52	0.45
35:BA:1651:G:H2'	35:BA:1652:A:H8	1.81	0.45
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.70	0.45
35:BA:1742:G:H5'	35:BA:1743:C:OP2	2.17	0.45
35:BA:1815:A:H8	35:BA:1815:A:OP1	2.00	0.45
35:BA:1982:C:N4	35:BA:1983:C:N4	2.65	0.45
35:BA:2028:U:O2'	35:BA:2029:G:H5'	2.16	0.45
35:BA:2080:G:H2'	35:BA:2081:C:C6	2.52	0.45
35:BA:2082:A:H2'	35:BA:2083:G:O4'	2.17	0.45
35:BA:2099:U:O2	35:BA:2191:G:N1	2.50	0.45
35:BA:2222:G:H1'	38:BD:151:LYS:NZ	2.31	0.45
35:BA:2742:C:H2'	35:BA:2743:C:H6	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:64:LEU:CD1	37:BC:175:VAL:O	2.58	0.45
37:BC:167:LYS:O	37:BC:167:LYS:CE	2.65	0.45
38:BD:84:TYR:CG	38:BD:85:ASP:N	2.84	0.45
38:BD:136:ILE:HG23	38:BD:140:THR:HG21	1.98	0.45
38:BD:155:LEU:HD12	38:BD:155:LEU:N	2.31	0.45
38:BD:183:ARG:HG3	38:BD:270:ILE:CG2	2.47	0.45
38:BD:227:ASN:ND2	38:BD:228:PRO:HD2	2.31	0.45
39:BE:68:ALA:C	39:BE:70:ALA:N	2.71	0.45
39:BE:105:THR:CG2	39:BE:106:GLY:H	2.27	0.45
39:BE:126:PRO:C	39:BE:128:SER:N	2.75	0.45
45:BN:6:PRO:CG	52:BU:64:ARG:HH22	2.29	0.45
45:BN:93:THR:O	45:BN:93:THR:CG2	2.65	0.45
46:BO:23:ARG:HB3	46:BO:40:VAL:CG2	2.43	0.45
46:BO:71:ARG:HG3	46:BO:75:SER:OG	2.16	0.45
47:BP:93:GLY:N	47:BP:123:LEU:HD12	2.32	0.45
49:BR:20:LEU:HA	49:BR:23:ASN:HB2	1.97	0.45
51:BT:57:PHE:C	51:BT:57:PHE:CD1	2.91	0.45
51:BT:88:ILE:HG22	51:BT:89:VAL:N	2.32	0.45
56:BY:23:ARG:HG2	56:BY:23:ARG:NH1	2.27	0.45
56:BY:62:GLU:HB3	56:BY:63:LYS:H	1.64	0.45
57:BZ:166:SER:HB2	57:BZ:168:GLU:CB	2.46	0.45
1:AA:55:A:O2'	1:AA:56:U:H5'	2.17	0.45
1:AA:106:C:N4	20:AT:14:LYS:HZ1	2.13	0.45
1:AA:337:C:C2	1:AA:338:A:C8	3.04	0.45
1:AA:449:C:H2'	1:AA:450:G:O4'	2.17	0.45
1:AA:598:U:H2'	1:AA:599:C:O4'	2.17	0.45
1:AA:679:C:N4	1:AA:680:C:N4	2.65	0.45
1:AA:1010:G:C2	1:AA:1020:U:C2	3.04	0.45
1:AA:1236:A:C2	1:AA:1237:C:C2	3.05	0.45
1:AA:1398:A:N6	5:AE:22:GLY:H	2.06	0.45
2:AB:90:MET:HA	2:AB:91:PRO:HD3	1.84	0.45
2:AB:92:TYR:OH	2:AB:150:SER:HB2	2.17	0.45
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.97	0.45
4:AD:17:VAL:O	4:AD:18:LYS:C	2.60	0.45
4:AD:118:ARG:NH1	4:AD:136:PRO:CB	2.80	0.45
4:AD:202:LEU:O	4:AD:205:GLU:N	2.50	0.45
5:AE:41:VAL:CG2	5:AE:67:VAL:HG13	2.47	0.45
5:AE:138:ALA:O	5:AE:139:LEU:C	2.60	0.45
5:AE:148:VAL:HG21	8:AH:107:LEU:HD13	1.99	0.45
7:AG:122:HIS:O	7:AG:123:GLU:C	2.59	0.45
7:AG:137:LYS:HE2	7:AG:137:LYS:HB3	1.60	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:46:LYS:HG2	8:AH:64:LYS:HE2	1.98	0.45
10:AJ:50:ILE:N	10:AJ:60:ARG:HG2	2.32	0.45
11:AK:91:ARG:O	11:AK:94:ALA:CB	2.64	0.45
13:AM:30:ALA:C	13:AM:32:GLU:N	2.74	0.45
14:AN:41:ARG:HG3	14:AN:42:ILE:N	2.32	0.45
16:AP:57:ARG:HA	16:AP:60:LEU:CD1	2.43	0.45
18:AR:53:ARG:C	18:AR:55:ARG:N	2.75	0.45
20:AT:62:LEU:HA	20:AT:65:LYS:HG3	1.99	0.45
22:AV:58:A:C2	22:AV:61:C:C5	3.05	0.45
24:AY:171:TRP:CA	24:AY:182:VAL:HG13	2.46	0.45
24:AY:282:ARG:HD3	24:AY:319:ARG:NH2	2.23	0.45
25:B0:75:LEU:O	25:B0:75:LEU:HD23	2.17	0.45
28:B3:30:ARG:CG	35:BA:1184:G:OP1	2.65	0.45
30:B5:6:VAL:HG22	30:B5:7:PRO:HD2	1.99	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N3	2.31	0.45
35:BA:36:G:C2	35:BA:445:C:N3	2.85	0.45
35:BA:80:G:H1'	35:BA:346:A:C6	2.52	0.45
35:BA:292:C:H42	35:BA:348:G:H1	1.65	0.45
35:BA:317:G:H2'	35:BA:318:C:C6	2.52	0.45
35:BA:627:A:H61	35:BA:636:G:C2'	2.30	0.45
35:BA:748:G:H8	35:BA:750:A:OP2	1.99	0.45
35:BA:1022:G:C6	35:BA:1140:C:C2	3.05	0.45
35:BA:1023:U:C4'	35:BA:1123:C:OP1	2.65	0.45
35:BA:1027:A:C2	35:BA:1028:A:N7	2.84	0.45
35:BA:1140:C:C5'	35:BA:1141:U:OP2	2.64	0.45
35:BA:1144:G:H2'	35:BA:1145:C:H6	1.79	0.45
35:BA:1381:G:O2'	35:BA:1382:G:H5'	2.16	0.45
35:BA:1553:A:C5	35:BA:1555:G:C5	3.05	0.45
35:BA:1612:C:H2'	35:BA:1613:G:O5'	2.17	0.45
35:BA:1614:A:H2	35:BA:1615:C:C5	2.34	0.45
35:BA:1691:C:H6	35:BA:1691:C:O5'	1.99	0.45
35:BA:1693:U:O4	35:BA:1976:U:O2'	2.35	0.45
35:BA:1721:G:H1'	35:BA:1742:G:H1	1.82	0.45
35:BA:1894:C:O2	35:BA:1894:C:C2'	2.65	0.45
35:BA:1902:C:C5	35:BA:1903:G:C8	3.05	0.45
35:BA:1910:G:N2	35:BA:1911:U:O2	2.49	0.45
35:BA:2677:G:O2'	35:BA:2678:C:H5'	2.17	0.45
35:BA:2681:C:C5	35:BA:2727:G:C2	3.00	0.45
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.46	0.45
35:BA:2850:A:H8	35:BA:2850:A:O5'	2.00	0.45
37:BC:50:ASP:CG	37:BC:51:PRO:HD2	2.42	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:189:ILE:O	37:BC:193:ILE:HG13	2.17	0.45
38:BD:28:GLU:N	38:BD:29:PRO:HD2	2.32	0.45
38:BD:61:LEU:CD1	38:BD:62:TYR:N	2.80	0.45
39:BE:65:GLY:HA2	39:BE:70:ALA:CB	2.46	0.45
40:BF:124:LEU:C	40:BF:125:LEU:HD23	2.41	0.45
40:BF:192:LEU:HD23	40:BF:192:LEU:O	2.17	0.45
41:BG:60:LEU:HD13	41:BG:60:LEU:C	2.42	0.45
41:BG:80:PHE:CE1	41:BG:81:LYS:NZ	2.84	0.45
41:BG:96:ARG:H	41:BG:99:MET:HE2	1.79	0.45
45:BN:95:PRO:O	45:BN:98:VAL:CB	2.64	0.45
49:BR:93:GLY:C	49:BR:94:TYR:CD1	2.82	0.45
51:BT:73:GLU:OE1	51:BT:103:ARG:NH1	2.49	0.45
52:BU:14:HIS:O	52:BU:16:LYS:N	2.50	0.45
52:BU:40:PHE:C	52:BU:42:ALA:N	2.74	0.45
52:BU:47:TYR:CD1	52:BU:47:TYR:C	2.93	0.45
54:BW:14:PRO:CA	54:BW:101:SER:HB3	2.46	0.45
54:BW:14:PRO:HA	54:BW:101:SER:CB	2.47	0.45
55:BX:9:LEU:HG	55:BX:30:VAL:HA	1.99	0.45
56:BY:22:GLY:O	56:BY:23:ARG:HG2	2.16	0.45
1:AA:125:U:H2'	1:AA:126:G:H8	1.81	0.45
1:AA:134:A:C5	1:AA:135:C:C4	3.05	0.45
1:AA:354:G:H2'	1:AA:354:G:N3	2.32	0.45
1:AA:560:U:H4'	1:AA:561:U:H5''	1.99	0.45
1:AA:677:U:O2'	1:AA:678:U:H5'	2.17	0.45
1:AA:713:G:C2'	1:AA:714:G:C8	2.84	0.45
1:AA:889:A:O4'	1:AA:891:U:C6	2.70	0.45
1:AA:1091:U:C2	1:AA:1095:U:C4	3.04	0.45
1:AA:1151:A:C5	1:AA:1152:A:N7	2.85	0.45
1:AA:1157:A:C2	1:AA:1181:G:C4	3.05	0.45
1:AA:1226:C:C5	13:AM:104:ARG:HA	2.52	0.45
1:AA:1269:A:N6	1:AA:1312:G:O2'	2.49	0.45
1:AA:1328:C:C2	1:AA:1329:A:C8	3.05	0.45
1:AA:1348:U:C5'	9:AI:110:GLU:OE1	2.64	0.45
1:AA:1430:C:C2	1:AA:1471:G:N2	2.85	0.45
1:AA:1465:C:C5	1:AA:1466:C:C4	3.05	0.45
2:AB:101:MET:CB	2:AB:102:LEU:HD12	2.42	0.45
2:AB:137:ARG:O	2:AB:140:HIS:HB2	2.17	0.45
2:AB:208:ILE:H	2:AB:208:ILE:HG13	1.40	0.45
3:AC:21:ARG:C	3:AC:22:TRP:CG	2.95	0.45
3:AC:52:LEU:O	3:AC:52:LEU:HG	2.16	0.45
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:127:THR:HB	4:AD:147:ALA:O	2.17	0.45
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.84	0.45
6:AF:62:TRP:CG	18:AR:35:ARG:NH1	2.85	0.45
8:AH:50:ARG:C	8:AH:51:VAL:HG13	2.42	0.45
9:AI:36:TYR:CD2	9:AI:37:PHE:CE1	3.05	0.45
11:AK:65:ALA:O	11:AK:68:ALA:HB3	2.17	0.45
12:AL:60:LEU:N	12:AL:60:LEU:HD22	2.32	0.45
17:AQ:67:LYS:HG2	17:AQ:68:ARG:HG3	1.99	0.45
19:AS:35:SER:O	19:AS:36:ARG:C	2.60	0.45
20:AT:50:GLU:C	20:AT:52:ALA:N	2.72	0.45
22:AV:74:C:C2'	22:AV:75:C:H5'	2.47	0.45
24:AY:25:GLY:O	24:AY:27:THR:N	2.50	0.45
24:AY:32:LYS:NZ	24:AY:260:LEU:HD12	2.32	0.45
25:B0:34:GLY:HA3	35:BA:2352:A:N1	2.32	0.45
28:B3:45:GLY:O	28:B3:47:VAL:N	2.50	0.45
30:B5:6:VAL:CG2	30:B5:7:PRO:HD2	2.47	0.45
30:B5:52:TYR:CD2	30:B5:52:TYR:O	2.69	0.45
32:B7:18:PHE:O	32:B7:19:ARG:C	2.60	0.45
32:B7:30:VAL:HG22	32:B7:33:ARG:HH22	1.80	0.45
32:B7:43:THR:O	32:B7:45:ALA:N	2.49	0.45
33:B8:7:HIS:O	33:B8:8:LYS:C	2.60	0.45
33:B8:52:LYS:C	33:B8:54:GLU:N	2.75	0.45
35:BA:85:G:H8	35:BA:85:G:H5''	1.81	0.45
35:BA:154:G:C4	35:BA:154(A):C:C5	3.05	0.45
35:BA:186:G:H8	35:BA:186:G:O5'	2.00	0.45
35:BA:338:G:O2'	35:BA:339:U:H5'	2.16	0.45
35:BA:729:G:C4	38:BD:208:LYS:HD2	2.52	0.45
35:BA:1002:G:H2'	35:BA:1003:G:O5'	2.16	0.45
35:BA:1022:G:N7	45:BN:66:LYS:HE3	2.32	0.45
35:BA:1024:G:C3'	35:BA:1025:G:C5'	2.89	0.45
35:BA:1063:G:H8	35:BA:1063:G:OP2	1.99	0.45
35:BA:1124:C:O2'	35:BA:1125:G:H5'	2.17	0.45
35:BA:1469:A:C2	35:BA:1470:G:H1'	2.52	0.45
35:BA:1547:C:HO2'	35:BA:1548:C:H5'	1.76	0.45
35:BA:1770:G:C5	35:BA:1771:C:C5	3.05	0.45
35:BA:1906:G:N3	35:BA:1907:G:H1'	2.32	0.45
35:BA:1999:C:H2'	35:BA:2000:G:O4'	2.17	0.45
35:BA:2000:G:C2	35:BA:2001:A:C8	3.05	0.45
35:BA:2411:A:O2'	35:BA:2412:A:H5'	2.16	0.45
35:BA:2450:A:C2	35:BA:2451:A:C5	3.05	0.45
35:BA:2631:G:N2	39:BE:61:ARG:HH12	2.14	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:50:G:OP1	50:BS:63:THR:CG2	2.65	0.45
36:BB:77:U:H4'	57:BZ:84:GLU:OE2	2.17	0.45
37:BC:38:ASP:OD2	37:BC:177:LYS:HE2	2.17	0.45
37:BC:70:LYS:C	37:BC:71:GLN:O	2.59	0.45
37:BC:213:TYR:OH	37:BC:223:ARG:HD2	2.16	0.45
38:BD:260:ARG:HG2	38:BD:261:LYS:N	2.32	0.45
40:BF:3:GLU:O	40:BF:19:GLU:HB2	2.17	0.45
40:BF:117:ARG:HD2	40:BF:191:ARG:HA	1.97	0.45
41:BG:143:GLU:O	41:BG:144:ILE:HG22	2.16	0.45
41:BG:147:ASP:O	41:BG:147:ASP:OD1	2.35	0.45
45:BN:22:THR:HA	45:BN:61:ARG:HB2	1.98	0.45
48:BQ:72:LYS:HB3	48:BQ:94:VAL:CG2	2.45	0.45
49:BR:96:ARG:HD3	49:BR:98:LEU:CD1	2.36	0.45
52:BU:84:LYS:HD3	52:BU:84:LYS:HA	1.76	0.45
52:BU:90:VAL:HB	52:BU:91:ASP:H	1.50	0.45
52:BU:98:LEU:O	52:BU:100:VAL:N	2.50	0.45
56:BY:54:LYS:O	56:BY:55:TYR:HB2	2.17	0.45
56:BY:84:ARG:CG	56:BY:85:VAL:H	2.25	0.45
57:BZ:17:ALA:O	57:BZ:20:ARG:N	2.50	0.45
57:BZ:24:LEU:HD23	57:BZ:25:PRO:O	2.17	0.45
57:BZ:27:VAL:O	57:BZ:87:ASP:HA	2.17	0.45
1:AA:55:A:C5	24:AY:311:HIS:CE1	3.05	0.44
1:AA:122:G:H2'	1:AA:123:C:H6	1.76	0.44
1:AA:172:A:H5''	1:AA:172:A:C8	2.42	0.44
1:AA:221:C:H2'	1:AA:222:U:H6	1.81	0.44
1:AA:327:A:H3'	1:AA:328:C:H5''	1.99	0.44
1:AA:575:G:H4'	1:AA:576:G:C5'	2.45	0.44
1:AA:691:G:C6	1:AA:692:U:O4	2.70	0.44
1:AA:799:G:O2'	1:AA:800:G:O4'	2.35	0.44
1:AA:1314:C:C4	1:AA:1315:U:C5	3.06	0.44
1:AA:1330:U:O4	1:AA:1331:G:C2	2.70	0.44
1:AA:1526:G:O2'	1:AA:1527:C:H5'	2.17	0.44
1:AA:1530:G:H2'	1:AA:1531:A:C8	2.51	0.44
2:AB:48:MET:O	2:AB:49:GLU:C	2.60	0.44
2:AB:97:TRP:HZ3	2:AB:172:ILE:HB	1.82	0.44
2:AB:164:VAL:HG11	2:AB:167:PRO:N	2.32	0.44
2:AB:166:ASP:HA	2:AB:167:PRO:HD2	1.82	0.44
4:AD:36:ARG:N	4:AD:37:PRO:CD	2.77	0.44
4:AD:59:ARG:HA	4:AD:59:ARG:NH2	2.27	0.44
5:AE:108:ALA:O	5:AE:112:LEU:HD12	2.17	0.44
11:AK:92:GLU:CD	11:AK:95:ILE:HD12	2.42	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:48:LYS:O	20:AT:52:ALA:N	2.50	0.44
24:AY:201:ILE:CA	24:AY:262:ASN:HD22	2.27	0.44
24:AY:484:GLU:O	24:AY:488:LYS:N	2.50	0.44
25:B0:36:ILE:HG12	35:BA:2354:G:O2'	2.17	0.44
26:B1:18:ILE:HG21	26:B1:20:ARG:NH2	2.31	0.44
27:B2:22:GLU:C	27:B2:24:LEU:N	2.74	0.44
27:B2:31:GLU:HA	27:B2:31:GLU:OE1	2.16	0.44
28:B3:48:GLU:O	28:B3:49:LYS:C	2.60	0.44
30:B5:19:ARG:C	30:B5:21:SER:N	2.53	0.44
33:B8:31:HIS:ND1	33:B8:31:HIS:C	2.75	0.44
35:BA:489:G:H22	35:BA:1321:A:P	2.40	0.44
35:BA:527:C:O2	35:BA:2779:U:C6	2.71	0.44
35:BA:572:A:H2'	35:BA:573:G:H1'	1.94	0.44
35:BA:598:G:C6	35:BA:599:G:C5	3.05	0.44
35:BA:830:G:C8	35:BA:2448:A:C2	3.05	0.44
35:BA:873:G:C2'	35:BA:874:G:H5'	2.47	0.44
35:BA:940:G:C2'	35:BA:941:A:H5''	2.47	0.44
35:BA:962:G:H2'	35:BA:963:U:H6	1.81	0.44
35:BA:1047:G:N2	35:BA:1110:G:H2'	2.31	0.44
35:BA:1095:A:H2'	35:BA:1096:A:C8	2.42	0.44
35:BA:1252:G:O2'	35:BA:1253:A:C8	2.71	0.44
35:BA:1310:G:H2'	35:BA:1311:G:C5'	2.32	0.44
35:BA:1355:G:O2'	35:BA:1356:G:H5'	2.17	0.44
35:BA:1447:G:C4'	35:BA:1545:A:C4'	2.95	0.44
35:BA:1542:A:H3'	35:BA:1542:A:H8	1.81	0.44
35:BA:1611:C:N4	35:BA:1620:G:H1	2.15	0.44
35:BA:1747(A):G:N2	35:BA:1748:G:C8	2.85	0.44
35:BA:1798:U:N1	35:BA:1822:G:N2	2.66	0.44
35:BA:1822:G:O2'	35:BA:1823:G:H5'	2.16	0.44
35:BA:2050:C:N4	35:BA:2051:A:N6	2.65	0.44
35:BA:2072:G:O5'	35:BA:2072:G:C8	2.70	0.44
35:BA:2289:G:O5'	35:BA:2289:G:H8	2.00	0.44
35:BA:2472:G:H1'	35:BA:2479:G:H22	1.83	0.44
35:BA:2679:A:OP1	39:BE:160:TYR:OH	2.34	0.44
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.17	0.44
35:BA:2840:C:H5''	49:BR:53:HIS:CD2	2.52	0.44
37:BC:73:ARG:HH21	37:BC:110:PHE:HA	1.81	0.44
37:BC:117:PRO:HG3	37:BC:145:VAL:HG13	1.99	0.44
37:BC:155:GLU:O	37:BC:160:ARG:HB2	2.18	0.44
38:BD:44:ASN:OD1	38:BD:44:ASN:N	2.48	0.44
38:BD:267:SER:O	38:BD:268:ARG:CB	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:143:ASN:HD22	39:BE:143:ASN:N	2.13	0.44
39:BE:167:VAL:O	39:BE:170:LEU:HD11	2.16	0.44
40:BF:107:LYS:O	40:BF:206:ILE:CG2	2.66	0.44
41:BG:23:PHE:CD1	41:BG:23:PHE:N	2.85	0.44
41:BG:67:LYS:H	41:BG:67:LYS:CD	2.29	0.44
41:BG:97:ASP:H	41:BG:100:TRP:CD1	2.32	0.44
42:BH:125:VAL:HG13	42:BH:131:VAL:CG1	2.46	0.44
45:BN:47:ALA:H	45:BN:48:MET:HE3	1.82	0.44
45:BN:59:LYS:O	45:BN:60:ILE:O	2.35	0.44
47:BP:97:PRO:O	47:BP:99:LEU:N	2.50	0.44
50:BS:14:VAL:CG1	50:BS:16:ASN:HD22	2.30	0.44
50:BS:26:LEU:CD2	50:BS:27:SER:O	2.65	0.44
51:BT:31:SER:O	51:BT:32:TYR:C	2.60	0.44
53:BV:28:GLU:O	53:BV:61:VAL:CB	2.65	0.44
54:BW:47:VAL:O	54:BW:51:LEU:HB2	2.16	0.44
54:BW:83:LYS:HZ3	54:BW:97:LYS:HD3	1.80	0.44
55:BX:12:VAL:O	55:BX:13:LEU:HB2	2.16	0.44
57:BZ:10:ARG:H	57:BZ:37:VAL:HA	1.82	0.44
57:BZ:17:ALA:HA	57:BZ:20:ARG:CG	2.46	0.44
57:BZ:40:ASP:OD1	57:BZ:42:VAL:CG1	2.61	0.44
57:BZ:167:PRO:HG2	57:BZ:167:PRO:O	2.17	0.44
1:AA:14:U:O2	1:AA:16:A:H3'	2.16	0.44
1:AA:20:U:N3	1:AA:21:G:C4	2.86	0.44
1:AA:80:G:C3'	1:AA:81:U:C5'	2.87	0.44
1:AA:405:U:H3'	1:AA:406:G:C5'	2.24	0.44
1:AA:519:C:N4	1:AA:520:A:C2	2.85	0.44
1:AA:720:C:H2'	1:AA:721:G:N7	2.33	0.44
1:AA:996:A:C2	1:AA:997:U:N3	2.85	0.44
1:AA:1055:A:O2'	3:AC:156:ARG:HD2	2.18	0.44
1:AA:1127:G:H1	1:AA:1145:C:N4	2.15	0.44
1:AA:1148:U:C2'	1:AA:1149:C:H5'	2.47	0.44
1:AA:1183:A:H3'	1:AA:1184:G:C5'	2.47	0.44
1:AA:1325:C:C4	1:AA:1326:C:N4	2.85	0.44
1:AA:1325:C:H6	1:AA:1325:C:H5''	1.81	0.44
1:AA:1406:U:H2'	1:AA:1407:C:H5'	1.98	0.44
2:AB:97:TRP:NE1	2:AB:101:MET:HG3	2.32	0.44
2:AB:155:LEU:CD1	2:AB:157:ARG:C	2.90	0.44
2:AB:178:ARG:HH11	2:AB:178:ARG:CG	2.20	0.44
4:AD:187:ARG:O	4:AD:189:PRO:HD3	2.16	0.44
6:AF:3:ARG:NH1	6:AF:38:GLU:OE2	2.46	0.44
7:AG:95:ARG:O	7:AG:98:SER:HB2	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:49:PRO:C	9:AI:51:ARG:H	2.24	0.44
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.47	0.44
12:AL:7:ILE:C	12:AL:9:GLN:N	2.75	0.44
18:AR:67:ALA:O	18:AR:70:ILE:HB	2.17	0.44
20:AT:33:ILE:O	20:AT:34:LYS:C	2.59	0.44
22:AV:68:C:N4	22:AV:69:C:N4	2.65	0.44
24:AY:184:HIS:HE1	24:AY:191:TYR:CE1	2.22	0.44
24:AY:390:ILE:O	24:AY:390:ILE:CG2	2.62	0.44
24:AY:419:LEU:HD21	24:AY:424:ALA:CB	2.47	0.44
26:B1:92:LYS:HD2	26:B1:93:GLU:N	2.33	0.44
27:B2:20:GLU:HA	27:B2:20:GLU:OE1	2.18	0.44
27:B2:29:LYS:HD3	27:B2:57:ILE:HD12	1.99	0.44
28:B3:47:VAL:CA	28:B3:50:VAL:HG22	2.29	0.44
29:B4:4:GLY:N	29:B4:6:HIS:HE1	2.14	0.44
32:B7:10:ARG:CD	35:BA:770:G:H5''	2.47	0.44
32:B7:33:ARG:CZ	35:BA:467:G:OP1	2.65	0.44
33:B8:49:VAL:CG1	33:B8:53:PRO:HD3	2.47	0.44
34:B9:8:LYS:CE	35:BA:1032:A:OP1	2.65	0.44
35:BA:9:U:O2	35:BA:10:G:C8	2.70	0.44
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.16	0.44
35:BA:459:U:H2'	35:BA:460:A:H8	1.80	0.44
35:BA:493:G:H2'	35:BA:494:G:O4'	2.18	0.44
35:BA:685:A:H2	35:BA:688:U:O2	1.99	0.44
35:BA:752:A:O2'	35:BA:753:C:OP2	2.35	0.44
35:BA:880:G:H2'	35:BA:881:G:H8	1.81	0.44
35:BA:906:G:C2'	48:BQ:67:ARG:HH22	2.30	0.44
35:BA:954:G:N3	35:BA:2274:A:H2	2.15	0.44
35:BA:954:G:H2'	35:BA:955:C:H5'	1.99	0.44
35:BA:1069:A:H5'	44:BK:9:UNK:CB	2.47	0.44
35:BA:1095:A:C8	35:BA:1096:A:N7	2.85	0.44
35:BA:1155:A:N3	35:BA:1157:G:C8	2.85	0.44
35:BA:1305:C:C2	35:BA:1306:C:C6	3.05	0.44
35:BA:1638:C:H4'	35:BA:2710:C:O2	2.17	0.44
35:BA:1668:A:H2'	35:BA:1674:G:N7	2.31	0.44
35:BA:1947:C:N3	35:BA:1960:A:C2	2.85	0.44
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.82	0.44
35:BA:2577:A:C5'	35:BA:2578:G:H5'	2.44	0.44
35:BA:2685:G:C4'	46:BO:67:LYS:NZ	2.80	0.44
35:BA:2776:A:H4'	35:BA:2777:G:H5''	1.99	0.44
35:BA:2796:U:H3'	35:BA:2799:C:H5'	1.99	0.44
36:BB:50:G:OP1	50:BS:63:THR:HG23	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:14:VAL:HG22	37:BC:28:LEU:HD11	1.99	0.44
37:BC:213:TYR:HD2	37:BC:221:SER:HB3	1.81	0.44
38:BD:211:ARG:O	38:BD:213:ARG:N	2.50	0.44
38:BD:244:ARG:HA	38:BD:245:PRO:HA	1.61	0.44
39:BE:6:GLY:HA2	39:BE:51:PHE:CE2	2.52	0.44
39:BE:51:PHE:C	39:BE:53:PRO:HD3	2.43	0.44
39:BE:63:LEU:O	39:BE:63:LEU:CD2	2.59	0.44
41:BG:19:LEU:O	41:BG:22:ARG:CB	2.65	0.44
42:BH:71:LEU:CD2	42:BH:72:ILE:HD12	2.43	0.44
42:BH:121:ILE:HD13	42:BH:121:ILE:HA	1.72	0.44
42:BH:151:ILE:N	42:BH:151:ILE:CD1	2.71	0.44
43:BJ:25:UNK:CB	43:BJ:85:LEU:HB3	2.47	0.44
46:BO:33:ALA:CA	46:BO:37:ASP:OD2	2.64	0.44
48:BQ:42:ILE:HD12	48:BQ:42:ILE:HA	1.75	0.44
48:BQ:121:ALA:O	48:BQ:125:LEU:HD23	2.18	0.44
49:BR:45:ARG:O	49:BR:47:PHE:N	2.50	0.44
50:BS:36:TYR:HD1	50:BS:36:TYR:H	1.45	0.44
50:BS:61:ASN:O	50:BS:62:LYS:CB	2.64	0.44
50:BS:106:ARG:O	50:BS:107:GLU:HB3	2.18	0.44
51:BT:108:ARG:O	51:BT:110:ILE:N	2.49	0.44
51:BT:124:ASP:CB	51:BT:125:ARG:HH12	2.23	0.44
53:BV:79:VAL:O	53:BV:80:GLN:HB2	2.16	0.44
54:BW:110:LYS:HD2	54:BW:110:LYS:HA	1.85	0.44
56:BY:54:LYS:HE3	56:BY:55:TYR:HE2	1.79	0.44
1:AA:108:G:O6	20:AT:15:ARG:HD2	2.17	0.44
1:AA:220:G:O2'	1:AA:221:C:H5'	2.16	0.44
1:AA:298:A:C6	1:AA:299:G:C2	3.05	0.44
1:AA:504:C:H2'	1:AA:511:C:H5	1.83	0.44
1:AA:1030(C):G:H2'	1:AA:1030(D):A:H8	1.81	0.44
1:AA:1092:A:C4	1:AA:1183:A:N6	2.85	0.44
1:AA:1139:G:N2	1:AA:1143:G:N1	2.65	0.44
1:AA:1190:G:C5'	1:AA:1191:A:OP1	2.66	0.44
1:AA:1474:G:C6	1:AA:1475:G:N7	2.85	0.44
1:AA:1495:U:C2'	1:AA:1496:C:C5'	2.88	0.44
3:AC:6:HIS:NE2	3:AC:8:ILE:HB	2.31	0.44
4:AD:140:VAL:HG12	4:AD:141:ARG:N	2.31	0.44
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.48	0.44
7:AG:103:TRP:HB3	7:AG:134:ALA:HB1	1.99	0.44
8:AH:121:ASP:O	8:AH:125:ARG:HB2	2.17	0.44
9:AI:94:ALA:O	9:AI:95:LYS:CB	2.65	0.44
10:AJ:78:ASN:C	10:AJ:80:LYS:H	2.24	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:32:ILE:O	11:AK:39:PRO:HA	2.16	0.44
12:AL:77:LEU:HD21	12:AL:106:ASP:O	2.17	0.44
13:AM:82:MET:O	13:AM:82:MET:HG2	2.17	0.44
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.99	0.44
15:AO:49:ASP:O	15:AO:50:HIS:C	2.60	0.44
15:AO:87:ILE:O	15:AO:88:ARG:C	2.60	0.44
20:AT:65:LYS:O	20:AT:68:LYS:HG3	2.17	0.44
22:AV:36:U:C2'	22:AV:37:A:C5'	2.95	0.44
24:AY:9:GLU:HB2	24:AY:360:TYR:CZ	2.52	0.44
24:AY:146:ARG:HH22	24:AY:177:LYS:HE2	1.83	0.44
24:AY:303:ILE:HD12	24:AY:375:ILE:HD13	1.98	0.44
24:AY:443:VAL:CG2	24:AY:444:LEU:N	2.59	0.44
31:B6:15:GLU:HG2	31:B6:18:ARG:NH1	2.33	0.44
32:B7:11:LYS:HE2	35:BA:686:G:C2	2.53	0.44
35:BA:58:G:N2	35:BA:70:G:C4	2.85	0.44
35:BA:310:A:H1'	35:BA:311:A:H2'	1.98	0.44
35:BA:662:G:C2	35:BA:663:G:C8	3.05	0.44
35:BA:864:G:N2	35:BA:913:U:O2	2.50	0.44
35:BA:1020:A:N1	35:BA:1141:U:H1'	2.33	0.44
35:BA:1138:G:H8	35:BA:1138:G:O5'	2.01	0.44
35:BA:1173:G:H5'	35:BA:1174:A:O5'	2.17	0.44
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.46	0.44
35:BA:1363:C:O2'	35:BA:1364:G:H5'	2.17	0.44
35:BA:1370:C:H3'	35:BA:1371:G:C8	2.52	0.44
35:BA:1493:C:O2	35:BA:1493:C:C2'	2.65	0.44
35:BA:1609:A:C2	35:BA:1616:A:C2	3.05	0.44
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	2.47	0.44
35:BA:1759:A:O2'	35:BA:1760:A:H5'	2.18	0.44
35:BA:1858:G:O2'	35:BA:1859:A:C8	2.70	0.44
35:BA:1906:G:C8	35:BA:1929:G:C5	3.05	0.44
35:BA:1953:A:H1'	35:BA:2560:C:H1'	1.99	0.44
35:BA:2014:A:H2'	35:BA:2015:A:C5	2.44	0.44
35:BA:2276:G:N3	35:BA:2276:G:H2'	2.31	0.44
35:BA:2385:C:N3	35:BA:2386:C:C5	2.86	0.44
35:BA:2673:G:H5'	35:BA:2673:G:C8	2.50	0.44
35:BA:2822:G:OP1	39:BE:112:GLY:N	2.27	0.44
37:BC:21:THR:HG22	37:BC:225:ASN:HB2	2.00	0.44
37:BC:43:VAL:CG2	37:BC:214:VAL:HG22	2.40	0.44
37:BC:62:VAL:HG11	37:BC:192:PHE:HD1	1.81	0.44
37:BC:217:THR:HG22	37:BC:218:MET:H	1.79	0.44
39:BE:27:LEU:CD1	39:BE:180:ASN:O	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:82:ARG:HH11	39:BE:82:ARG:CG	2.29	0.44
40:BF:7:TYR:CD2	40:BF:16:GLY:HA3	2.52	0.44
40:BF:32:LEU:HD21	40:BF:109:GLY:HA3	1.99	0.44
40:BF:110:LEU:C	40:BF:110:LEU:CD1	2.89	0.44
41:BG:57:ALA:O	41:BG:60:LEU:HB3	2.16	0.44
45:BN:67:LEU:HD23	45:BN:87:LEU:HD12	1.99	0.44
46:BO:11:ALA:O	46:BO:98:VAL:CA	2.65	0.44
48:BQ:135:ASP:HB2	48:BQ:136:ALA:H	1.43	0.44
49:BR:24:GLN:O	49:BR:28:LEU:N	2.50	0.44
52:BU:101:ARG:HH11	52:BU:101:ARG:CG	2.30	0.44
57:BZ:8:TYR:CB	57:BZ:38:TYR:CE2	3.00	0.44
57:BZ:24:LEU:CD1	57:BZ:41:LEU:HA	2.45	0.44
57:BZ:91:LEU:HD22	57:BZ:130:PRO:CB	2.46	0.44
1:AA:346:G:N3	1:AA:346:G:C2'	2.80	0.44
1:AA:395:C:C2'	1:AA:396:G:H5'	2.47	0.44
1:AA:426:G:H4'	4:AD:41:GLY:O	2.18	0.44
1:AA:455:C:H2'	1:AA:456:C:C6	2.51	0.44
1:AA:580:U:H4'	15:AO:58:MET:SD	2.57	0.44
1:AA:603:U:O2'	1:AA:604:G:H5'	2.17	0.44
1:AA:607:A:H2'	1:AA:608:A:C8	2.38	0.44
1:AA:714:G:C6	1:AA:715:A:N6	2.85	0.44
1:AA:855:G:H2'	1:AA:856:C:C6	2.51	0.44
1:AA:979:C:N4	1:AA:1360:A:H62	2.12	0.44
1:AA:989:C:O2	1:AA:1217:C:O2	2.36	0.44
1:AA:1009:G:H1	1:AA:1020:U:H3	1.65	0.44
1:AA:1034:G:N2	1:AA:1035:A:C5	2.85	0.44
1:AA:1377:A:P	7:AG:94:ARG:HH22	2.41	0.44
1:AA:1418:A:H8	1:AA:1419:G:O4'	2.01	0.44
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.18	0.44
2:AB:41:ILE:CG2	2:AB:42:ILE:N	2.81	0.44
2:AB:54:THR:O	2:AB:58:ILE:HG13	2.17	0.44
2:AB:108:ILE:H	2:AB:108:ILE:HG12	1.40	0.44
2:AB:168:THR:HG23	2:AB:192:SER:CA	2.47	0.44
4:AD:134:ASP:C	4:AD:135:LEU:HD13	2.43	0.44
8:AH:1:MET:HE1	8:AH:3:THR:CG2	2.47	0.44
10:AJ:15:THR:O	10:AJ:19:SER:HB3	2.18	0.44
10:AJ:60:ARG:O	10:AJ:61:GLU:HB2	2.17	0.44
15:AO:3:ILE:HG13	15:AO:8:LYS:CG	2.47	0.44
16:AP:55:ARG:NH2	16:AP:58:TYR:CG	2.81	0.44
17:AQ:40:LYS:HG2	17:AQ:42:TYR:CE2	2.52	0.44
20:AT:10:LEU:O	20:AT:13:LEU:HG	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:16:GLY:O	21:AU:17:THR:CG2	2.65	0.44
24:AY:131:ARG:HH12	24:AY:162:LEU:HD13	1.81	0.44
26:B1:14:VAL:HG21	35:BA:189:G:OP2	2.17	0.44
26:B1:67:ILE:C	26:B1:69:LYS:N	2.76	0.44
32:B7:24:THR:N	32:B7:28:ARG:NH2	2.66	0.44
35:BA:24:G:H2'	35:BA:25:U:O4'	2.18	0.44
35:BA:675:A:O2'	40:BF:67:GLN:CD	2.60	0.44
35:BA:942:G:C5'	47:BP:36:LYS:N	2.80	0.44
35:BA:1028:A:C2	35:BA:1029:A:C5	3.05	0.44
35:BA:1142(A):A:C8	35:BA:1142(A):A:H5'	2.53	0.44
35:BA:1202:C:C5	35:BA:1203:G:N7	2.85	0.44
35:BA:1272:A:N7	35:BA:1618:A:C1'	2.81	0.44
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.53	0.44
35:BA:1414:G:N1	35:BA:1588:C:N4	2.55	0.44
35:BA:1463:C:H2'	35:BA:1464:C:H6	1.77	0.44
35:BA:1528:A:N6	35:BA:1544:A:C2	2.86	0.44
35:BA:1625:C:H2'	35:BA:1626:G:H5'	1.93	0.44
35:BA:1858:G:O2'	35:BA:1859:A:H8	2.00	0.44
35:BA:1921:G:H2'	35:BA:1922:G:H8	1.82	0.44
35:BA:1947:C:C2	35:BA:1960:A:C2	3.06	0.44
35:BA:2088:G:C6	35:BA:2089:U:C4	3.06	0.44
35:BA:2280:G:C6	35:BA:2281:C:C4	3.05	0.44
35:BA:2418:A:C6	35:BA:2419:U:C4	3.06	0.44
35:BA:2452:C:O2'	35:BA:2453:A:H5'	2.17	0.44
35:BA:2624:G:O5'	35:BA:2624:G:H8	2.00	0.44
35:BA:2727:G:C2	35:BA:2728:U:C2	3.06	0.44
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.32	0.44
37:BC:86:ALA:HB1	37:BC:153:ILE:HD12	1.99	0.44
37:BC:143:GLY:O	37:BC:152:ILE:HG21	2.17	0.44
38:BD:14:ARG:HH11	38:BD:14:ARG:CG	2.15	0.44
38:BD:61:LEU:CD1	38:BD:61:LEU:C	2.90	0.44
38:BD:92:ILE:CA	38:BD:106:ILE:HA	2.47	0.44
39:BE:105:THR:CG2	39:BE:106:GLY:N	2.80	0.44
39:BE:114:ALA:HB3	39:BE:160:TYR:CB	2.32	0.44
39:BE:190:GLY:O	39:BE:191:PRO:O	2.34	0.44
40:BF:154:VAL:CG1	40:BF:191:ARG:HB3	2.46	0.44
41:BG:71:THR:HG22	41:BG:72:ARG:O	2.17	0.44
41:BG:121:ASN:OD1	41:BG:122:PRO:HD2	2.17	0.44
42:BH:18:GLU:HB2	42:BH:25:LYS:CB	2.47	0.44
44:BK:131:UNK:O	44:BK:136:UNK:CB	2.66	0.44
45:BN:47:ALA:H	45:BN:48:MET:CE	2.30	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:17:ARG:NH2	46:BO:99:PHE:CD2	2.86	0.44
47:BP:55:ARG:O	47:BP:57:THR:N	2.50	0.44
47:BP:101:VAL:C	47:BP:103:ALA:H	2.24	0.44
56:BY:36:ALA:O	56:BY:37:VAL:HG13	2.17	0.44
57:BZ:37:VAL:O	57:BZ:38:TYR:HB3	2.18	0.44
57:BZ:42:VAL:O	57:BZ:43:GLU:C	2.60	0.44
57:BZ:82:ARG:HG2	57:BZ:82:ARG:NH1	2.33	0.44
57:BZ:126:VAL:O	57:BZ:126:VAL:HG23	2.16	0.44
1:AA:141:A:H1'	1:AA:182:U:C2	2.52	0.44
1:AA:515:G:H2'	1:AA:516:U:O4'	2.18	0.44
1:AA:765:G:O6	1:AA:812:C:C6	2.70	0.44
1:AA:875:C:H2'	1:AA:876:G:O4'	2.16	0.44
1:AA:909:A:P	12:AL:21:LYS:HZ2	2.40	0.44
1:AA:1151:A:H4'	10:AJ:70:ARG:HH12	1.82	0.44
1:AA:1314:C:O2'	1:AA:1315:U:C5'	2.64	0.44
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.83	0.44
2:AB:60:ASP:HB3	2:AB:64:ARG:NH2	2.31	0.44
2:AB:105:PHE:O	2:AB:106:LYS:C	2.59	0.44
3:AC:132:ARG:HH22	4:AD:47:ARG:HH22	1.65	0.44
4:AD:190:ASP:OD2	4:AD:192:GLU:HB2	2.17	0.44
5:AE:84:PHE:CE2	5:AE:133:TYR:CD2	3.06	0.44
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.60	0.44
9:AI:34:ASN:O	9:AI:38:GLN:CB	2.64	0.44
9:AI:46:ALA:O	9:AI:47:LEU:HD12	2.17	0.44
10:AJ:64:GLU:O	14:AN:56:VAL:HA	2.18	0.44
10:AJ:84:GLN:H	10:AJ:84:GLN:HG3	1.59	0.44
12:AL:98:TYR:CD1	12:AL:98:TYR:N	2.85	0.44
13:AM:54:VAL:HG22	13:AM:57:ARG:NH1	2.33	0.44
16:AP:49:LEU:HA	16:AP:49:LEU:HD12	1.74	0.44
18:AR:34:TYR:CD1	18:AR:34:TYR:C	2.96	0.44
19:AS:30:LEU:HD21	19:AS:32:LYS:NZ	2.31	0.44
24:AY:10:VAL:O	24:AY:11:ALA:C	2.60	0.44
24:AY:257:GLY:HA3	24:AY:264:GLY:HA3	2.00	0.44
24:AY:492:GLN:HB3	24:AY:504:ILE:CB	2.47	0.44
25:B0:70:GLN:HG2	25:B0:71:ASP:N	2.33	0.44
26:B1:7:ILE:HD13	26:B1:69:LYS:HG2	1.98	0.44
27:B2:25:VAL:CG1	27:B2:57:ILE:HD12	2.48	0.44
30:B5:2:ALA:HA	35:BA:2015:A:H1'	2.00	0.44
30:B5:54:GLY:O	30:B5:56:LYS:HG2	2.18	0.44
30:B5:59:GLU:O	30:B5:59:GLU:CG	2.65	0.44
33:B8:32:LEU:O	33:B8:33:ASN:O	2.35	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:70:G:H5''	35:BA:112:U:O2	2.18	0.44
35:BA:184:C:H4'	35:BA:217:G:N2	2.33	0.44
35:BA:221:A:H4'	35:BA:222:A:C5'	2.48	0.44
35:BA:292:C:C2'	35:BA:293:U:H5'	2.47	0.44
35:BA:363(E):U:C2'	35:BA:363(F):A:O4'	2.66	0.44
35:BA:473:G:O2'	35:BA:474:G:H5'	2.18	0.44
35:BA:496:G:H1'	54:BW:61:ASN:ND2	2.33	0.44
35:BA:523:C:H2'	35:BA:524:U:O4'	2.17	0.44
35:BA:572:A:C3'	35:BA:573:G:O4'	2.65	0.44
35:BA:690:G:H21	38:BD:43:ARG:NH2	2.13	0.44
35:BA:696:G:N3	35:BA:696:G:C2'	2.79	0.44
35:BA:863:A:H2'	35:BA:864:G:H8	1.82	0.44
35:BA:917:A:H3'	35:BA:2268:A:H61	1.81	0.44
35:BA:1020:A:C2	35:BA:1141:U:C2	3.05	0.44
35:BA:1084:A:P	43:BJ:55:UNK:HA	2.57	0.44
35:BA:1112:G:C2	35:BA:1113:U:C2	3.05	0.44
35:BA:1139:G:C5'	45:BN:70:LYS:NZ	2.80	0.44
35:BA:1243:G:H1'	47:BP:8:PRO:O	2.17	0.44
35:BA:1247:A:O2'	35:BA:1248:G:C5'	2.65	0.44
35:BA:1275:A:O2'	35:BA:1645:G:N2	2.45	0.44
35:BA:1670:C:OP2	35:BA:1671:U:C4	2.70	0.44
35:BA:1747(A):G:C3'	35:BA:1748:G:H5''	2.48	0.44
35:BA:1799:G:C6	35:BA:1819:A:C8	3.05	0.44
35:BA:2097:C:C2	35:BA:2193:G:C2	3.05	0.44
35:BA:2469:A:HO2'	48:BQ:56:ARG:HD2	1.82	0.44
35:BA:2511:U:O2	35:BA:2578:G:C6	2.70	0.44
35:BA:2666:C:H3'	35:BA:2667:C:C6	2.52	0.44
35:BA:2689:U:O2'	49:BR:14:SER:HB2	2.17	0.44
35:BA:2788:C:O3'	35:BA:2809:A:O2'	2.34	0.44
35:BA:2873:A:H3'	35:BA:2874:C:C6	2.53	0.44
37:BC:6:ARG:CZ	37:BC:10:LEU:HD21	2.46	0.44
37:BC:62:VAL:HG12	37:BC:161:ILE:HD11	1.98	0.44
37:BC:181:PRO:HG2	37:BC:184:LYS:HB2	1.99	0.44
38:BD:116:GLN:HG3	38:BD:116:GLN:O	2.17	0.44
39:BE:203:LYS:O	39:BE:203:LYS:HG3	2.16	0.44
41:BG:111:LEU:H	41:BG:112:PRO:CD	2.31	0.44
41:BG:128:ARG:C	41:BG:129:GLY:O	2.60	0.44
41:BG:172:LEU:CD2	41:BG:173:LEU:HD23	2.48	0.44
42:BH:92:ILE:HD12	42:BH:95:ARG:HH21	1.83	0.44
47:BP:75:ILE:H	47:BP:75:ILE:CD1	2.31	0.44
48:BQ:120:ILE:HA	48:BQ:123:HIS:HD2	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:76:VAL:HG22	49:BR:80:PHE:HE2	1.64	0.44
50:BS:61:ASN:O	50:BS:62:LYS:HG3	2.17	0.44
50:BS:89:ARG:CZ	50:BS:91:PRO:HG2	2.48	0.44
51:BT:118:ARG:HA	51:BT:121:ILE:HG22	1.99	0.44
55:BX:7:VAL:O	55:BX:30:VAL:HB	2.17	0.44
55:BX:57:LEU:HD11	55:BX:78:LYS:HE3	1.99	0.44
56:BY:45:VAL:HG11	56:BY:60:PHE:CD2	2.50	0.44
1:AA:297:G:N2	1:AA:300:A:OP2	2.51	0.44
1:AA:320:C:H2'	1:AA:321:A:H8	1.77	0.44
1:AA:321:A:O3'	1:AA:1436:U:H5'	2.18	0.44
1:AA:662:G:N2	1:AA:663:A:C2	2.86	0.44
1:AA:673:G:H2'	1:AA:674:G:H8	1.63	0.44
1:AA:695:A:H2'	1:AA:696:A:C8	2.53	0.44
1:AA:828:A:C8	1:AA:828:A:C3'	3.01	0.44
1:AA:1238:A:N3	1:AA:1238:A:H2'	2.31	0.44
2:AB:36:ARG:HB3	2:AB:41:ILE:CD1	2.46	0.44
2:AB:47:THR:O	2:AB:51:LEU:CD1	2.54	0.44
2:AB:76:GLN:O	2:AB:80:ILE:CD1	2.65	0.44
2:AB:235:SER:HB2	2:AB:236:TYR:HD1	1.82	0.44
3:AC:28:GLN:O	3:AC:31:HIS:HB2	2.17	0.44
3:AC:58:GLU:O	3:AC:65:ALA:N	2.50	0.44
7:AG:27:ILE:O	7:AG:27:ILE:CG2	2.65	0.44
7:AG:108:ALA:HB2	7:AG:123:GLU:HB3	1.99	0.44
8:AH:11:THR:O	8:AH:12:ARG:C	2.61	0.44
8:AH:88:LYS:O	8:AH:89:PRO:C	2.60	0.44
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.32	0.44
9:AI:104:ARG:HH11	9:AI:104:ARG:CG	2.17	0.44
12:AL:102:ARG:NH2	12:AL:110:VAL:CG2	2.80	0.44
13:AM:12:ASN:O	13:AM:44:ARG:HD2	2.17	0.44
13:AM:70:LEU:CA	13:AM:73:GLU:CB	2.95	0.44
14:AN:3:ARG:O	14:AN:3:ARG:HG2	2.17	0.44
15:AO:18:PHE:O	15:AO:19:PRO:C	2.57	0.44
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.18	0.44
19:AS:51:VAL:N	19:AS:58:VAL:HG22	2.32	0.44
22:AV:59:A:H2'	22:AV:60:U:O4'	2.17	0.44
24:AY:341:VAL:O	24:AY:341:VAL:HG12	2.15	0.44
24:AY:425:VAL:CG1	24:AY:445:GLN:CG	2.88	0.44
25:B0:82:ARG:HA	25:B0:83:PRO:HD3	1.71	0.44
26:B1:44:PRO:CB	26:B1:46:LEU:HD23	2.47	0.44
27:B2:41:ILE:CG1	27:B2:42:GLY:H	2.27	0.44
33:B8:64:TYR:CE2	35:BA:625:G:OP1	2.71	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:182:A:C2	35:BA:183:C:C2	3.06	0.44
35:BA:271(J):C:O2	35:BA:271(M):G:O6	2.36	0.44
35:BA:271(P):C:C2'	35:BA:271(Q):G:H5'	2.47	0.44
35:BA:332:A:O2'	35:BA:333:G:P	2.76	0.44
35:BA:447:A:C6	35:BA:454:A:C8	3.05	0.44
35:BA:528:A:H3'	35:BA:528:A:C8	2.52	0.44
35:BA:736:C:C2	35:BA:737:C:C5	3.06	0.44
35:BA:948:G:H1	35:BA:969:U:H3	1.65	0.44
35:BA:962:G:H2'	35:BA:963:U:C6	2.53	0.44
35:BA:980:A:C4	35:BA:1136:G:O4'	2.71	0.44
35:BA:1057:A:H2'	35:BA:1058:G:C5'	2.48	0.44
35:BA:1416:G:C2	35:BA:1417:C:C4	3.06	0.44
35:BA:1517:G:C5'	35:BA:1517:G:H8	2.31	0.44
35:BA:1820:U:C4	38:BD:202:LYS:HD3	2.52	0.44
35:BA:1833:U:N3	35:BA:1834:U:C5	2.86	0.44
35:BA:1903:G:OP1	38:BD:241:PRO:O	2.34	0.44
35:BA:1915:U:H6	35:BA:1915:U:H3'	1.82	0.44
35:BA:2076:U:O2	35:BA:2076:U:C2'	2.66	0.44
35:BA:2306:C:OP2	35:BA:2307:G:C8	2.70	0.44
35:BA:2332:U:C4'	35:BA:2336:A:N6	2.80	0.44
35:BA:2533:A:H2'	35:BA:2534:A:O4'	2.17	0.44
35:BA:2638:G:P	39:BE:82:ARG:NH2	2.91	0.44
35:BA:2652:C:C2	35:BA:2669:G:C2	3.05	0.44
35:BA:2668:G:C2'	35:BA:2669:G:H5'	2.47	0.44
35:BA:2687:U:H2'	35:BA:2688:U:O4'	2.17	0.44
35:BA:2711:A:H3'	35:BA:2712:U:H5'	1.99	0.44
36:BB:80:U:C2'	36:BB:81:G:H21	2.24	0.44
37:BC:22:ILE:HG22	37:BC:186:ALA:HB1	1.99	0.44
37:BC:47:LEU:CD2	37:BC:58:VAL:HG21	2.46	0.44
37:BC:67:GLY:HA2	37:BC:159:GLY:HA3	2.00	0.44
37:BC:79:LYS:HD3	37:BC:119:VAL:HG11	2.00	0.44
38:BD:31:LYS:HG3	38:BD:33:LEU:H	1.82	0.44
38:BD:129:ASN:N	38:BD:193:VAL:HG11	2.32	0.44
38:BD:137:PRO:HD2	38:BD:140:THR:HG21	1.98	0.44
38:BD:147:LEU:HD12	38:BD:155:LEU:HD13	2.00	0.44
38:BD:177:LEU:CG	38:BD:181:GLU:O	2.50	0.44
39:BE:49:LEU:HD11	39:BE:91:VAL:HG23	1.97	0.44
39:BE:69:LYS:C	39:BE:71:GLY:H	2.25	0.44
39:BE:97:LYS:O	39:BE:98:PRO:C	2.60	0.44
39:BE:120:TRP:CE3	39:BE:155:LYS:NZ	2.74	0.44
39:BE:163:GLU:HG3	39:BE:164:ARG:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:188:ARG:CA	47:BP:7:ARG:HD2	2.32	0.44
42:BH:18:GLU:HB2	42:BH:25:LYS:CG	2.47	0.44
42:BH:42:ARG:C	42:BH:43:VAL:HG22	2.43	0.44
42:BH:133:VAL:CG1	42:BH:134:SER:N	2.76	0.44
45:BN:30:ILE:O	45:BN:34:LEU:HD22	2.18	0.44
46:BO:13:ASN:OD1	46:BO:95:GLY:HA3	2.17	0.44
48:BQ:35:VAL:O	48:BQ:130:LYS:N	2.49	0.44
48:BQ:130:LYS:C	48:BQ:131:ILE:HD12	2.41	0.44
49:BR:18:LEU:HD11	49:BR:22:ARG:CZ	2.47	0.44
52:BU:95:LEU:HD23	52:BU:95:LEU:HA	1.73	0.44
52:BU:99:ALA:HB2	52:BU:106:PHE:CE1	2.53	0.44
53:BV:16:PRO:O	53:BV:96:ILE:CG1	2.37	0.44
1:AA:88:A:C2	1:AA:89:C:C5	3.06	0.44
1:AA:777:A:C2	1:AA:778:G:C4	3.05	0.44
1:AA:828:A:C5	1:AA:859:A:C8	3.05	0.44
1:AA:834:C:C2	1:AA:853:G:N2	2.85	0.44
1:AA:968:A:O2'	1:AA:969:A:OP1	2.31	0.44
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.82	0.44
1:AA:1375:A:C2'	1:AA:1376:U:O4'	2.63	0.44
1:AA:1410:G:C5	1:AA:1491:G:N2	2.86	0.44
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.53	0.44
1:AA:1489:G:O2'	1:AA:1490:C:H5'	2.18	0.44
2:AB:30:ARG:HH21	2:AB:194:PRO:CG	2.30	0.44
2:AB:84:GLU:CD	2:AB:216:SER:HA	2.41	0.44
3:AC:116:VAL:O	3:AC:120:VAL:HG23	2.17	0.44
3:AC:138:VAL:HB	3:AC:151:VAL:HG23	2.00	0.44
4:AD:18:LYS:HE2	4:AD:31:CYS:CB	2.47	0.44
4:AD:95:GLY:O	4:AD:99:SER:N	2.41	0.44
4:AD:100:ARG:HG2	4:AD:102:ASP:OD1	2.17	0.44
4:AD:152:SER:O	4:AD:155:LEU:N	2.45	0.44
5:AE:78:HIS:CD2	5:AE:78:HIS:N	2.86	0.44
5:AE:128:PRO:HB2	5:AE:129:ILE:CD1	2.46	0.44
5:AE:131:ILE:O	5:AE:135:THR:HB	2.17	0.44
6:AF:61:LEU:HD22	6:AF:63:TYR:CZ	2.52	0.44
8:AH:112:LEU:O	8:AH:118:VAL:HG13	2.16	0.44
9:AI:15:ALA:HB2	9:AI:65:VAL:HG23	1.99	0.44
10:AJ:4:ILE:HB	10:AJ:74:ILE:HG13	2.00	0.44
11:AK:19:ALA:O	11:AK:82:VAL:HG23	2.18	0.44
11:AK:98:LEU:HD23	11:AK:98:LEU:HA	1.74	0.44
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.33	0.44
16:AP:36:ILE:O	16:AP:51:VAL:HG13	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:29:PHE:CD1	18:AR:29:PHE:C	2.95	0.44
19:AS:61:TYR:CD1	35:BA:887:A:H5'	2.52	0.44
24:AY:119:VAL:O	24:AY:119:VAL:HG12	2.17	0.44
24:AY:276:ALA:HA	24:AY:277:PRO:HD3	1.78	0.44
24:AY:507:SER:OG	24:AY:510:ASN:HB2	2.18	0.44
27:B2:17:SER:OG	27:B2:20:GLU:CB	2.66	0.44
28:B3:30:ARG:HD2	35:BA:1184:G:OP2	2.18	0.44
29:B4:34:GLU:CD	29:B4:34:GLU:N	2.75	0.44
30:B5:5:PRO:HB3	35:BA:2614:A:N9	2.32	0.44
30:B5:17:ASP:O	30:B5:20:ARG:N	2.51	0.44
31:B6:23:THR:O	31:B6:24:GLU:CD	2.60	0.44
32:B7:35:ARG:NH1	32:B7:35:ARG:HG2	2.33	0.44
35:BA:86:C:OP1	56:BY:32:PRO:HD2	2.18	0.44
35:BA:142:A:H1'	35:BA:1408:C:C1'	2.47	0.44
35:BA:242:G:N2	35:BA:243:U:O4	2.45	0.44
35:BA:288:C:C5	35:BA:351:G:N2	2.85	0.44
35:BA:361:G:H2'	35:BA:362:U:C5'	2.48	0.44
35:BA:442:G:N2	40:BF:48:THR:HB	2.33	0.44
35:BA:462:C:H2'	35:BA:463:G:O4'	2.17	0.44
35:BA:491:G:C4	35:BA:492:A:C8	3.05	0.44
35:BA:782:A:N1	38:BD:226:MET:CE	2.81	0.44
35:BA:830:G:C8	35:BA:2448:A:N3	2.86	0.44
35:BA:931:G:N1	35:BA:933:A:C6	2.86	0.44
35:BA:948:G:C4	35:BA:949:C:C5	3.05	0.44
35:BA:1125:G:H3'	35:BA:1126:A:H8	1.82	0.44
35:BA:1197:G:H2'	35:BA:1198:U:C6	2.53	0.44
35:BA:1240:U:C2'	35:BA:1241:A:OP2	2.66	0.44
35:BA:1331:A:H2'	35:BA:1333:C:C5	2.53	0.44
35:BA:1381:G:H2'	35:BA:1382:G:H8	1.82	0.44
35:BA:1645:G:H5''	35:BA:1646:C:O4'	2.18	0.44
35:BA:1754:C:N4	35:BA:1755:A:C6	2.86	0.44
35:BA:1958:C:C2'	35:BA:1959:G:H5'	2.48	0.44
35:BA:2056:G:C8	35:BA:2577:A:C6	3.05	0.44
35:BA:2189:U:H3'	35:BA:2189:U:C6	2.53	0.44
35:BA:2199:A:H61	35:BA:2226:C:N4	2.16	0.44
35:BA:2341:G:H2'	35:BA:2342:C:H6	1.83	0.44
35:BA:2666:C:H5'	35:BA:2667:C:OP2	2.18	0.44
36:BB:5:C:H2'	36:BB:6:C:H6	1.82	0.44
36:BB:16:G:O2'	36:BB:17:C:P	2.76	0.44
36:BB:43:C:H5'	36:BB:44:G:OP2	2.18	0.44
36:BB:71:C:H2'	36:BB:72:G:C5'	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:76:G:C6	36:BB:77:U:C5	3.05	0.44
37:BC:3:HIS:ND1	37:BC:7:TYR:CD2	2.86	0.44
37:BC:77:ILE:O	37:BC:95:GLY:HA2	2.18	0.44
37:BC:109:ASP:O	37:BC:109:ASP:CG	2.61	0.44
38:BD:69:ARG:CZ	38:BD:105:ILE:CG1	2.96	0.44
38:BD:131:LEU:CD2	38:BD:132:PRO:HD2	2.47	0.44
38:BD:162:SER:O	38:BD:178:PRO:HG3	2.17	0.44
38:BD:211:ARG:HB3	38:BD:212:SER:H	1.63	0.44
39:BE:52:LEU:O	39:BE:52:LEU:HG	2.18	0.44
39:BE:104:VAL:O	39:BE:166:THR:HG23	2.18	0.44
41:BG:104:GLU:O	41:BG:108:ASN:OD1	2.36	0.44
41:BG:159:VAL:O	41:BG:159:VAL:HG22	2.17	0.44
45:BN:52:VAL:HB	45:BN:120:LEU:HD22	2.00	0.44
47:BP:56:SER:C	47:BP:57:THR:HG23	2.42	0.44
47:BP:91:PHE:CD1	47:BP:91:PHE:N	2.86	0.44
47:BP:93:GLY:O	47:BP:123:LEU:HD12	2.18	0.44
49:BR:40:LYS:O	49:BR:44:LEU:HB2	2.18	0.44
49:BR:92:GLY:O	49:BR:93:GLY:C	2.60	0.44
50:BS:22:GLY:O	50:BS:23:ARG:O	2.36	0.44
50:BS:31:SER:OG	50:BS:32:LEU:N	2.51	0.44
51:BT:111:ARG:NH1	51:BT:111:ARG:HG2	2.32	0.44
57:BZ:9:TYR:CE1	57:BZ:63:ASP:OD2	2.71	0.44
57:BZ:151:HIS:HB3	57:BZ:170:THR:CA	2.46	0.44
1:AA:184:G:O4'	1:AA:224:C:C5'	2.66	0.44
1:AA:232:G:H2'	1:AA:233:C:C6	2.53	0.44
1:AA:600:C:C2	1:AA:639:G:C2	3.06	0.44
1:AA:652:U:C5	1:AA:752:G:N3	2.86	0.44
1:AA:683:G:H3'	1:AA:684:A:C8	2.53	0.44
1:AA:688:G:O2'	1:AA:704:A:N1	2.45	0.44
1:AA:699:C:H2'	1:AA:700:G:O4'	2.17	0.44
1:AA:781:A:C6	1:AA:802:A:C2	3.05	0.44
1:AA:851:G:H2'	1:AA:852:G:C8	2.53	0.44
1:AA:857:C:H2'	1:AA:858:G:O5'	2.17	0.44
1:AA:906:G:H3'	1:AA:906:G:C8	2.53	0.44
1:AA:980:C:H5'	1:AA:981:U:C5	2.53	0.44
1:AA:1015:A:C8	1:AA:1016:A:N7	2.85	0.44
1:AA:1031:G:C2'	1:AA:1032:G:H5'	2.48	0.44
1:AA:1176:A:C6	1:AA:1177:G:C6	3.06	0.44
1:AA:1177:G:H2'	1:AA:1178:G:O4'	2.18	0.44
1:AA:1216:G:C6	1:AA:1217:C:N4	2.86	0.44
1:AA:1326:C:OP1	21:AU:12:LYS:HE3	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.18	0.44
1:AA:1491:G:C5	1:AA:1492:A:C6	3.05	0.44
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.36	0.44
2:AB:42:ILE:CD1	2:AB:203:GLY:CA	2.88	0.44
2:AB:54:THR:CG2	2:AB:58:ILE:HD11	2.37	0.44
2:AB:69:LEU:C	2:AB:69:LEU:HD13	2.43	0.44
3:AC:55:VAL:HG22	3:AC:68:VAL:HG12	1.95	0.44
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.81	0.44
6:AF:52:ILE:HG21	6:AF:87:ARG:NH1	2.32	0.44
7:AG:18:TYR:CB	7:AG:59:LEU:HD13	2.48	0.44
9:AI:89:ASN:HB3	9:AI:92:TYR:CG	2.53	0.44
10:AJ:33:GLN:HB2	10:AJ:75:ILE:CD1	2.47	0.44
10:AJ:45:ARG:NH1	10:AJ:45:ARG:HG3	2.32	0.44
17:AQ:67:LYS:O	17:AQ:68:ARG:HB2	2.17	0.44
18:AR:66:LEU:O	18:AR:70:ILE:CG1	2.64	0.44
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.42	0.44
20:AT:72:LEU:CD2	20:AT:80:ARG:HH21	2.29	0.44
20:AT:74:LYS:C	20:AT:76:ALA:N	2.74	0.44
22:AV:48:C:OP1	22:AV:48:C:C6	2.62	0.44
24:AY:15:THR:HG22	24:AY:106:VAL:HA	2.00	0.44
24:AY:296:PHE:CD2	24:AY:331:LEU:CD1	2.93	0.44
24:AY:415:GLY:HA2	24:AY:457:TYR:CZ	2.53	0.44
28:B3:35:ARG:HG2	28:B3:36:VAL:N	2.30	0.44
31:B6:8:LYS:O	31:B6:9:LEU:HB3	2.16	0.44
31:B6:18:ARG:HG3	31:B6:19:ARG:N	2.30	0.44
35:BA:85:G:N2	35:BA:103:A:C2	2.86	0.44
35:BA:244:A:H3'	35:BA:245:G:O4'	2.18	0.44
35:BA:252:G:O2'	35:BA:253:C:O4'	2.30	0.44
35:BA:271(G):C:O5'	35:BA:271(G):C:H6	2.01	0.44
35:BA:695:G:C2	35:BA:696:G:C8	3.05	0.44
35:BA:833:U:C5'	47:BP:48:PRO:CB	2.88	0.44
35:BA:884:C:C2	35:BA:892:G:N2	2.86	0.44
35:BA:1058:G:OP1	44:BK:2:UNK:N	2.51	0.44
35:BA:1060:U:C5'	35:BA:1061:U:H5	2.31	0.44
35:BA:1090:U:O5'	35:BA:1090:U:H6	2.00	0.44
35:BA:1139:G:O2'	35:BA:1143:A:N6	2.43	0.44
35:BA:1203:G:N1	35:BA:1241:A:OP2	2.50	0.44
35:BA:1264:G:C6	35:BA:1265:A:N6	2.86	0.44
35:BA:1332:G:C5'	35:BA:1333:C:H5	2.30	0.44
35:BA:1642:G:C2'	35:BA:1643:G:H5'	2.47	0.44
35:BA:1653:G:H1'	35:BA:1654:A:OP2	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2304:G:C2	35:BA:2313:C:C2	3.06	0.44
35:BA:2328:A:H61	35:BA:2387:U:H3	1.66	0.44
35:BA:2456:C:O2'	35:BA:2457:U:H5'	2.17	0.44
35:BA:2469:A:N1	35:BA:2481:G:H1'	2.33	0.44
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.44	0.44
35:BA:2832:U:H5	35:BA:2884:U:H5''	1.82	0.44
36:BB:16:G:O2'	36:BB:17:C:C6	2.67	0.44
37:BC:59:ARG:NH2	37:BC:142:ALA:CB	2.81	0.44
37:BC:103:ILE:HG23	37:BC:107:TRP:CD1	2.53	0.44
38:BD:37:LEU:CD1	38:BD:62:TYR:CD1	3.00	0.44
38:BD:206:LEU:HD12	38:BD:207:GLY:H	1.83	0.44
38:BD:221:VAL:O	38:BD:221:VAL:HG23	2.18	0.44
39:BE:67:PHE:CD1	39:BE:68:ALA:N	2.77	0.44
39:BE:172:VAL:O	39:BE:172:VAL:HG12	2.18	0.44
42:BH:12:PRO:CD	42:BH:15:VAL:HG11	2.48	0.44
42:BH:12:PRO:HG2	42:BH:15:VAL:HG13	2.00	0.44
43:BJ:27:UNK:O	43:BJ:82:UNK:HA	2.18	0.44
45:BN:34:LEU:HD22	45:BN:52:VAL:HG21	1.99	0.44
45:BN:66:LYS:O	45:BN:87:LEU:HB2	2.17	0.44
45:BN:107:LEU:O	45:BN:108:PRO:O	2.35	0.44
48:BQ:52:VAL:O	48:BQ:53:ALA:C	2.61	0.44
51:BT:60:THR:CB	51:BT:76:PHE:O	2.66	0.44
53:BV:95:LEU:HD22	53:BV:97:LYS:HD3	1.99	0.44
54:BW:41:LYS:HD3	54:BW:41:LYS:HA	1.77	0.44
56:BY:13:VAL:CG2	56:BY:73:ARG:C	2.88	0.44
56:BY:38:ILE:HD12	56:BY:38:ILE:HA	1.65	0.44
57:BZ:42:VAL:CG1	57:BZ:43:GLU:H	2.27	0.44
57:BZ:102:LEU:HD11	57:BZ:124:ILE:HD13	2.00	0.44
57:BZ:111:VAL:O	57:BZ:112:ARG:C	2.61	0.44
57:BZ:149:SER:O	57:BZ:151:HIS:CD2	2.71	0.44
1:AA:200:G:C6	1:AA:201:C:C4	3.06	0.44
1:AA:294:U:O2'	1:AA:295:C:H5'	2.18	0.44
1:AA:346:G:O2'	1:AA:347:G:H8	2.01	0.44
1:AA:474:G:H2'	1:AA:475:G:H8	1.82	0.44
1:AA:608:A:C2	1:AA:609:A:C4	3.06	0.44
1:AA:609:A:C2'	1:AA:610:G:H5'	2.48	0.44
1:AA:658:G:H5''	15:AO:31:LEU:HD23	2.00	0.44
1:AA:739:C:C4	1:AA:740:U:C5	3.06	0.44
1:AA:762:C:H2'	1:AA:763:G:C8	2.53	0.44
1:AA:780:A:O3'	1:AA:1523:G:H4'	2.18	0.44
1:AA:782:A:C6	1:AA:801: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:878:G:H5'	8:AH:89:PRO:CG	2.47	0.44
1:AA:892:A:C4	1:AA:907:A:C6	3.06	0.44
1:AA:956:U:H2'	1:AA:957:U:H5'	1.99	0.44
1:AA:972:C:O2'	1:AA:973:G:C5'	2.65	0.44
1:AA:1034:G:C2	1:AA:1035:A:N7	2.86	0.44
1:AA:1068:G:O6	1:AA:1108:G:C2	2.70	0.44
1:AA:1102:A:O2'	1:AA:1103:C:C5'	2.65	0.44
1:AA:1465:C:C4	1:AA:1466:C:C4	3.05	0.44
2:AB:7:VAL:HA	2:AB:11:LEU:CD1	2.48	0.44
2:AB:105:PHE:HE1	2:AB:152:PHE:CE1	2.36	0.44
2:AB:107:THR:O	2:AB:108:ILE:C	2.61	0.44
2:AB:203:GLY:O	2:AB:204:ASN:C	2.61	0.44
4:AD:19:LEU:CD2	4:AD:21:LEU:HD21	2.48	0.44
4:AD:105:VAL:HG13	4:AD:110:PHE:HB2	1.99	0.44
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.33	0.44
5:AE:39:GLY:CA	5:AE:69:VAL:HB	2.28	0.44
7:AG:37:ASN:HD21	9:AI:40:LEU:CD2	2.30	0.44
8:AH:30:ARG:NH1	8:AH:30:ARG:CB	2.81	0.44
11:AK:71:LYS:O	11:AK:75:TYR:CD1	2.70	0.44
12:AL:86:ARG:HH21	12:AL:99:HIS:CG	2.35	0.44
12:AL:105:TYR:O	24:AY:434:ASN:ND2	2.51	0.44
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.47	0.44
14:AN:42:ILE:O	14:AN:46:GLU:HB2	2.18	0.44
15:AO:12:ILE:HG13	15:AO:31:LEU:HD11	1.99	0.44
16:AP:8:ARG:HH21	16:AP:15:PRO:HG3	1.82	0.44
19:AS:6:LYS:O	19:AS:7:LYS:HD3	2.18	0.44
20:AT:44:ALA:HA	20:AT:52:ALA:HB1	2.00	0.44
20:AT:53:LEU:N	20:AT:53:LEU:HD12	2.32	0.44
21:AU:9:ARG:HD3	21:AU:13:ILE:HD11	1.99	0.44
21:AU:12:LYS:O	21:AU:17:THR:N	2.45	0.44
22:AV:63:G:H2'	22:AV:64:G:O4'	2.18	0.44
24:AY:34:LEU:HD23	24:AY:34:LEU:N	2.33	0.44
24:AY:68:ILE:CD1	24:AY:92:HIS:CE1	3.01	0.44
24:AY:136:PRO:HB3	24:AY:246:PHE:CZ	2.53	0.44
24:AY:259:ALA:O	24:AY:260:LEU:C	2.61	0.44
25:B0:31:VAL:N	25:B0:65:GLY:O	2.51	0.44
26:B1:37:ILE:HD12	26:B1:37:ILE:O	2.17	0.44
26:B1:76:ARG:CA	35:BA:271(Q):G:H4'	2.42	0.44
27:B2:40:SER:O	55:BX:13:LEU:HD11	2.18	0.44
28:B3:8:LEU:CD2	28:B3:31:LEU:HG	2.48	0.44
29:B4:6:HIS:HB3	41:BG:67:LYS:HE2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:44:THR:HG22	30:B5:45:VAL:H	1.82	0.44
31:B6:54:ILE:CD1	35:BA:2397:G:H22	2.31	0.44
32:B7:19:ARG:NH2	32:B7:23:ARG:HH22	2.16	0.44
33:B8:22:VAL:CG2	33:B8:53:PRO:HB2	2.47	0.44
34:B9:18:ARG:O	34:B9:19:ARG:HB3	2.18	0.44
35:BA:263:C:O4'	35:BA:430:G:H1'	2.17	0.44
35:BA:372:G:O2'	35:BA:373:U:OP2	2.36	0.44
35:BA:424:G:O2'	35:BA:425:G:H5'	2.17	0.44
35:BA:463:G:C2	35:BA:467:G:N1	2.85	0.44
35:BA:486:C:H6	35:BA:486:C:O5'	2.01	0.44
35:BA:579:G:H1	35:BA:1261:C:N4	2.15	0.44
35:BA:658:C:O2'	40:BF:102:PRO:HG3	2.18	0.44
35:BA:778:G:C2	35:BA:779:U:C2	3.06	0.44
35:BA:857:C:C4	35:BA:858:U:O4	2.71	0.44
35:BA:1038:C:H3'	35:BA:1039:G:C5'	2.48	0.44
35:BA:1055:G:H22	35:BA:1105:U:H1'	1.83	0.44
35:BA:1166:C:H1'	35:BA:1184:G:N2	2.33	0.44
35:BA:1199:U:C2	35:BA:1200:C:C6	3.06	0.44
35:BA:1299:G:H4'	35:BA:1301:A:N9	2.33	0.44
35:BA:1924:C:P	35:BA:1924:C:C2'	3.00	0.44
35:BA:1936:A:P	35:BA:1961:C:N4	2.84	0.44
35:BA:1947:C:N3	35:BA:1948:G:N7	2.66	0.44
35:BA:1986:A:H3'	35:BA:1987:G:H5''	1.99	0.44
35:BA:2063:C:N4	35:BA:2064:C:N4	2.66	0.44
35:BA:2073:C:C6	35:BA:2073:C:C3'	3.01	0.44
35:BA:2076:U:C5	38:BD:244:ARG:NH2	2.84	0.44
35:BA:2343:C:H2'	35:BA:2344:U:C5	2.51	0.44
35:BA:2396:G:C2	35:BA:2421:G:C6	3.06	0.44
35:BA:2711:A:C3'	35:BA:2712:U:H5'	2.48	0.44
35:BA:2818:G:OP2	49:BR:42:LYS:NZ	2.39	0.44
35:BA:2886:G:N2	35:BA:2887:U:C2	2.86	0.44
36:BB:45:A:H1'	41:BG:95:ARG:CZ	2.48	0.44
37:BC:4:GLY:C	37:BC:7:TYR:H	2.25	0.44
37:BC:6:ARG:NH2	37:BC:7:TYR:CA	2.67	0.44
37:BC:22:ILE:O	37:BC:186:ALA:HB2	2.18	0.44
37:BC:149:ILE:O	37:BC:153:ILE:HG13	2.18	0.44
38:BD:148:GLU:H	38:BD:154:LYS:NZ	2.15	0.44
38:BD:233:HIS:CE1	38:BD:247:ALA:H	2.36	0.44
39:BE:169:ASN:ND2	39:BE:169:ASN:O	2.51	0.44
39:BE:199:ARG:NH1	39:BE:199:ARG:CB	2.59	0.44
40:BF:97:TYR:C	40:BF:98:SER:O	2.61	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:139:PHE:O	40:BF:141:ALA:N	2.50	0.44
41:BG:106:LEU:CD2	41:BG:157:ILE:HD13	2.48	0.44
42:BH:58:GLU:O	42:BH:62:LYS:HG3	2.18	0.44
45:BN:34:LEU:HD13	45:BN:34:LEU:HA	1.81	0.44
45:BN:36:GLY:N	45:BN:49:GLY:HA2	2.30	0.44
47:BP:5:ASP:OD1	47:BP:6:LEU:N	2.51	0.44
48:BQ:111:GLU:O	48:BQ:112:GLU:C	2.61	0.44
48:BQ:141:GLN:OE1	57:BZ:72:ARG:HA	2.18	0.44
49:BR:24:GLN:O	49:BR:25:ALA:C	2.61	0.44
49:BR:117:VAL:HG22	49:BR:118:GLU:N	2.33	0.44
51:BT:73:GLU:OE2	51:BT:103:ARG:HD2	2.17	0.44
51:BT:78:LEU:HB3	51:BT:79:HIS:ND1	2.32	0.44
52:BU:42:ALA:C	52:BU:44:ASN:H	2.25	0.44
53:BV:52:VAL:O	53:BV:52:VAL:CG2	2.62	0.44
53:BV:62:LEU:CD2	53:BV:95:LEU:HB2	2.47	0.44
54:BW:14:PRO:O	54:BW:15:ARG:C	2.61	0.44
54:BW:21:VAL:C	54:BW:23:LEU:N	2.71	0.44
55:BX:10:ALA:HB1	55:BX:11:PRO:CD	2.48	0.44
56:BY:63:LYS:HG2	56:BY:64:GLU:H	1.83	0.44
57:BZ:117:LEU:HD12	57:BZ:117:LEU:C	2.41	0.44
1:AA:59:A:N1	1:AA:331:G:N3	2.65	0.43
1:AA:105:G:O2'	1:AA:106:C:H5'	2.18	0.43
1:AA:253:U:H5''	17:AQ:68:ARG:HD2	2.00	0.43
1:AA:339:C:H2'	1:AA:340:U:H6	1.79	0.43
1:AA:340:U:C2	1:AA:350:G:N2	2.86	0.43
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.51	0.43
1:AA:673:G:O6	1:AA:734:G:C6	2.71	0.43
1:AA:678:U:C5	1:AA:679:C:C5	3.06	0.43
1:AA:836:G:C5	1:AA:851:G:N1	2.86	0.43
1:AA:992:U:O2'	1:AA:993:G:O5'	2.35	0.43
1:AA:1030(C):G:O2'	1:AA:1030(D):A:H5'	2.17	0.43
1:AA:1053:G:O2'	1:AA:1054:C:OP2	2.30	0.43
1:AA:1282:C:H2'	1:AA:1283:G:O5'	2.18	0.43
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.18	0.43
2:AB:10:LEU:HD13	2:AB:10:LEU:O	2.18	0.43
2:AB:83:MET:O	2:AB:84:GLU:C	2.60	0.43
2:AB:157:ARG:O	2:AB:158:LEU:C	2.61	0.43
2:AB:177:ALA:O	2:AB:180:LEU:N	2.51	0.43
3:AC:113:ALA:HB2	3:AC:183:ASP:O	2.18	0.43
3:AC:157:ILE:HB	3:AC:164:ARG:NH2	2.32	0.43
4:AD:29:PRO:O	4:AD:30:LYS:HB3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:14:PRO:HA	7:AG:21:VAL:HG12	1.99	0.43
10:AJ:64:GLU:HG2	14:AN:59:ALA:CA	2.46	0.43
12:AL:113:ARG:HB3	12:AL:122:THR:HG21	1.98	0.43
13:AM:56:LEU:CD1	13:AM:57:ARG:N	2.77	0.43
15:AO:10:LYS:HE2	15:AO:10:LYS:HA	2.00	0.43
15:AO:39:LEU:HB3	15:AO:56:LEU:HD11	2.00	0.43
15:AO:70:LEU:HD12	15:AO:78:TYR:HD1	1.83	0.43
17:AQ:29:HIS:CE1	17:AQ:32:TYR:CD2	3.05	0.43
18:AR:56:THR:C	18:AR:58:LEU:N	2.76	0.43
24:AY:9:GLU:HB2	24:AY:360:TYR:OH	2.18	0.43
24:AY:99:THR:O	24:AY:101:ARG:N	2.51	0.43
24:AY:169:ILE:CD1	24:AY:275:TRP:CZ2	3.01	0.43
24:AY:179:PHE:HD2	24:AY:193:TYR:CE2	2.36	0.43
24:AY:210:LEU:O	24:AY:212:ASN:N	2.50	0.43
24:AY:215:LEU:HD23	24:AY:216:ASP:OD2	2.18	0.43
24:AY:282:ARG:O	24:AY:283:GLN:CG	2.66	0.43
24:AY:384:MET:O	24:AY:385:MET:CB	2.65	0.43
30:B5:28:PRO:O	30:B5:30:LEU:HG	2.18	0.43
31:B6:35:GLU:CB	31:B6:51:GLU:OE1	2.66	0.43
31:B6:48:VAL:O	31:B6:49:HIS:ND1	2.51	0.43
32:B7:10:ARG:NH2	35:BA:1378:A:H5''	2.32	0.43
35:BA:269:U:C4	35:BA:271(Y):U:C2	3.05	0.43
35:BA:335:C:OP1	35:BA:335:C:C6	2.68	0.43
35:BA:370:G:O2'	35:BA:423:A:H3'	2.18	0.43
35:BA:599:G:H2'	35:BA:600:G:H8	1.83	0.43
35:BA:695:G:C2	35:BA:696:G:C4	3.06	0.43
35:BA:747:U:OP1	35:BA:2612:C:H6	2.01	0.43
35:BA:774:A:H2	35:BA:787:U:C2'	2.31	0.43
35:BA:815:C:C2	35:BA:1193:G:C2	3.06	0.43
35:BA:1163:G:C2	35:BA:1164:G:C8	3.06	0.43
35:BA:1289:C:H4'	35:BA:1330:C:O4'	2.17	0.43
35:BA:1310:G:O4'	35:BA:1611:C:H5''	2.18	0.43
35:BA:1312:U:OP2	55:BX:63:LYS:NZ	2.34	0.43
35:BA:1360:A:N6	35:BA:1372:U:C5	2.85	0.43
35:BA:1452:A:O2'	35:BA:1453:U:H6	2.01	0.43
35:BA:1494:A:O2'	35:BA:1496:A:C2	2.71	0.43
35:BA:1555:G:N2	35:BA:1556:C:C2	2.86	0.43
35:BA:1619:G:O5'	35:BA:1619:G:C8	2.71	0.43
35:BA:1891:G:C2	35:BA:1892:C:C2	3.06	0.43
35:BA:2115:G:H5'	35:BA:2167:U:H1'	2.00	0.43
35:BA:2291:U:H2'	35:BA:2292:C:H6	1.76	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2296:U:N3	35:BA:2337:G:N2	2.66	0.43
35:BA:2487:G:H2'	35:BA:2488:A:H8	1.82	0.43
35:BA:2628:C:C2'	35:BA:2781:A:H2'	2.47	0.43
35:BA:2650:U:H2'	35:BA:2651:C:H6	1.84	0.43
35:BA:2690:C:H5''	35:BA:2872:G:H22	1.82	0.43
35:BA:2860:A:C8	35:BA:2861:G:H1'	2.53	0.43
37:BC:167:LYS:O	37:BC:167:LYS:CG	2.66	0.43
38:BD:53:PHE:HA	38:BD:218:ARG:HB2	2.00	0.43
38:BD:75:ILE:HD12	38:BD:75:ILE:N	2.32	0.43
40:BF:70:THR:O	40:BF:72:ARG:N	2.51	0.43
40:BF:195:ASP:O	40:BF:199:TRP:HB2	2.18	0.43
41:BG:71:THR:CG2	41:BG:72:ARG:H	2.31	0.43
42:BH:44:VAL:CG1	42:BH:45:VAL:N	2.78	0.43
43:BJ:103:UNK:O	43:BJ:108:UNK:CB	2.66	0.43
45:BN:46:VAL:O	45:BN:46:VAL:HG22	2.18	0.43
47:BP:38:GLN:O	47:BP:39:LYS:CB	2.66	0.43
47:BP:83:VAL:HG23	47:BP:105:LEU:CD2	2.38	0.43
47:BP:113:LYS:HG2	47:BP:114:ILE:N	2.32	0.43
48:BQ:52:VAL:C	48:BQ:54:MET:N	2.75	0.43
48:BQ:78:PRO:CD	48:BQ:81:VAL:HG11	2.30	0.43
48:BQ:110:THR:HG23	48:BQ:113:GLN:CD	2.39	0.43
49:BR:90:ARG:HH21	49:BR:118:GLU:HA	1.83	0.43
51:BT:25:GLY:O	51:BT:48:ILE:CG2	2.66	0.43
51:BT:54:ARG:HA	51:BT:59:THR:HG22	1.98	0.43
56:BY:2:ARG:NH1	56:BY:2:ARG:HG2	2.33	0.43
57:BZ:6:LYS:N	57:BZ:6:LYS:HD3	2.33	0.43
1:AA:106:C:N4	20:AT:14:LYS:CE	2.81	0.43
1:AA:254:G:C2'	1:AA:255:G:H5'	2.48	0.43
1:AA:309:G:H2'	1:AA:310:G:H8	1.83	0.43
1:AA:334:C:H6	1:AA:334:C:O5'	2.01	0.43
1:AA:356:A:C2	1:AA:368:U:O2	2.71	0.43
1:AA:390:C:H4'	16:AP:28:ARG:NH2	2.12	0.43
1:AA:585:G:C6	1:AA:586:C:C4	3.06	0.43
1:AA:830:G:O2'	1:AA:831:U:H5'	2.18	0.43
1:AA:860:A:N6	1:AA:861:G:C2	2.85	0.43
1:AA:929:G:H21	1:AA:930:C:H1'	1.83	0.43
1:AA:1030(B):C:O5'	1:AA:1030(B):C:H6	2.01	0.43
1:AA:1068:G:C6	1:AA:1108:G:C2	3.06	0.43
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	2.00	0.43
1:AA:1406:U:H2'	1:AA:1407:C:C5'	2.48	0.43
1:AA:1406:U:C6	1:AA:1407:C:C6	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:105:PHE:C	2:AB:107:THR:N	2.76	0.43
2:AB:115:LEU:CG	2:AB:145:LEU:HD12	2.49	0.43
2:AB:157:ARG:CZ	2:AB:157:ARG:CB	2.96	0.43
2:AB:212:GLN:O	2:AB:213:LEU:O	2.36	0.43
3:AC:19:GLU:CD	3:AC:54:ARG:HD2	2.43	0.43
3:AC:21:ARG:CG	3:AC:58:GLU:HG2	2.43	0.43
3:AC:83:ARG:O	3:AC:85:ARG:N	2.51	0.43
3:AC:150:LYS:HE3	3:AC:167:TRP:CD1	2.53	0.43
4:AD:52:SER:O	4:AD:56:VAL:CG2	2.67	0.43
4:AD:100:ARG:HB3	4:AD:103:ASN:HB2	2.00	0.43
4:AD:184:LYS:O	4:AD:186:LEU:N	2.50	0.43
7:AG:54:THR:OG1	7:AG:56:GLN:CG	2.65	0.43
7:AG:59:LEU:O	7:AG:62:PHE:HB3	2.18	0.43
11:AK:63:LEU:O	11:AK:66:LEU:HG	2.18	0.43
12:AL:20:LYS:N	12:AL:20:LYS:CD	2.81	0.43
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.18	0.43
15:AO:27:VAL:O	15:AO:28:GLN:C	2.60	0.43
15:AO:29:VAL:O	15:AO:33:THR:HB	2.18	0.43
15:AO:65:ARG:HG3	15:AO:66:LEU:H	1.82	0.43
17:AQ:29:HIS:CA	17:AQ:36:ILE:HD11	2.47	0.43
22:AV:4:G:H2'	22:AV:5:G:H8	1.83	0.43
23:AX:17:U:O2'	23:AX:18:G:H5'	2.17	0.43
24:AY:13:ARG:NH1	24:AY:83:LEU:HD12	2.32	0.43
24:AY:14:ARG:CD	24:AY:276:ALA:CB	2.88	0.43
24:AY:25:GLY:C	24:AY:27:THR:N	2.76	0.43
24:AY:307:MET:CG	24:AY:313:ASP:H	2.30	0.43
24:AY:332:ARG:CA	24:AY:339:ASP:OD1	2.66	0.43
24:AY:349:MET:HG2	24:AY:350:ALA:N	2.33	0.43
24:AY:425:VAL:HG21	24:AY:449:VAL:HG11	1.99	0.43
26:B1:46:LEU:HD22	26:B1:63:ALA:HA	2.00	0.43
27:B2:14:ARG:HH22	35:BA:78:A:H5'	1.81	0.43
28:B3:8:LEU:CD1	28:B3:31:LEU:HA	2.48	0.43
28:B3:9:VAL:HG11	28:B3:55:ARG:HD3	2.01	0.43
28:B3:15:TYR:O	28:B3:20:LYS:NZ	2.46	0.43
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.33	0.43
31:B6:15:GLU:HG2	31:B6:18:ARG:NH2	2.33	0.43
32:B7:34:ARG:HH22	35:BA:466:A:P	2.40	0.43
35:BA:203:C:P	35:BA:204:A:H3'	2.57	0.43
35:BA:237:C:H2'	35:BA:238:C:H6	1.83	0.43
35:BA:239:U:O2	35:BA:259:G:C2	2.71	0.43
35:BA:258:G:H8	35:BA:258:G:O5'	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:412:A:C2	35:BA:413:C:C1'	3.01	0.43
35:BA:535:C:H2'	35:BA:536:A:O4'	2.18	0.43
35:BA:592:G:C4	35:BA:666:G:N2	2.86	0.43
35:BA:685:A:OP1	35:BA:686:G:N2	2.51	0.43
35:BA:833:U:H5''	47:BP:48:PRO:HB3	1.96	0.43
35:BA:865:C:H4'	35:BA:866:A:OP1	2.17	0.43
35:BA:907:U:OP1	48:BQ:24:GLY:N	2.48	0.43
35:BA:920:G:H2'	35:BA:921:G:H8	1.82	0.43
35:BA:944:G:H22	47:BP:38:GLN:NE2	2.16	0.43
35:BA:972:G:C2	35:BA:973:A:N6	2.86	0.43
35:BA:1006:C:H2'	35:BA:1007:C:C6	2.53	0.43
35:BA:1258:C:O4'	40:BF:84:VAL:CG2	2.66	0.43
35:BA:1396:U:H2'	35:BA:1396:U:O2	2.18	0.43
35:BA:1425:G:H2'	35:BA:1426:G:O4'	2.18	0.43
35:BA:1650:G:H5'	49:BR:107:ASP:OD2	2.19	0.43
35:BA:1800:C:OP1	38:BD:266:SER:OG	2.32	0.43
35:BA:1853:A:H2'	35:BA:1854:A:O4'	2.18	0.43
35:BA:1949:G:H1	35:BA:1957:C:N4	2.15	0.43
35:BA:2073:C:C6	35:BA:2073:C:H3'	2.52	0.43
35:BA:2100:G:C2	35:BA:2101:G:C2	3.06	0.43
35:BA:2152:G:C6	35:BA:2153:G:N7	2.86	0.43
35:BA:2263:C:H2'	35:BA:2264:C:C6	2.53	0.43
35:BA:2459:A:C2	35:BA:2494:G:H1'	2.53	0.43
35:BA:2563:U:H1'	35:BA:2566:A:C5	2.53	0.43
35:BA:2820:A:H8	39:BE:109:LYS:HE2	1.83	0.43
37:BC:114:VAL:HG12	37:BC:144:THR:CG2	2.48	0.43
38:BD:14:ARG:HG2	38:BD:14:ARG:NH1	2.22	0.43
38:BD:181:GLU:OE2	38:BD:270:ILE:HG21	2.18	0.43
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.18	0.43
40:BF:3:GLU:HA	40:BF:24:LEU:HB2	2.00	0.43
40:BF:131:GLY:CA	40:BF:138:GLU:O	2.65	0.43
40:BF:161:GLU:O	40:BF:162:LEU:C	2.60	0.43
41:BG:76:SER:HB3	41:BG:83:ARG:CG	2.48	0.43
44:BK:99:UNK:O	44:BK:100:UNK:O	2.36	0.43
45:BN:38:HIS:O	52:BU:67:ALA:HB1	2.17	0.43
48:BQ:72:LYS:O	48:BQ:93:TYR:CD1	2.71	0.43
49:BR:29:LEU:HD21	49:BR:52:ILE:CD1	2.43	0.43
49:BR:78:LYS:O	49:BR:78:LYS:HG2	2.16	0.43
51:BT:16:ARG:CB	51:BT:16:ARG:NH1	2.80	0.43
52:BU:24:TYR:O	52:BU:29:SER:HB3	2.18	0.43
52:BU:92:ARG:NH1	53:BV:11:GLN:N	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:65:LEU:HD23	54:BW:68:ARG:CD	2.48	0.43
56:BY:40:GLU:HA	56:BY:40:GLU:OE1	2.17	0.43
57:BZ:8:TYR:CD2	57:BZ:38:TYR:CZ	3.06	0.43
57:BZ:28:MET:HA	57:BZ:88:PHE:HB2	2.00	0.43
57:BZ:63:ASP:O	57:BZ:65:GLN:N	2.51	0.43
57:BZ:128:VAL:HG11	57:BZ:133:ILE:HD13	2.00	0.43
1:AA:47:C:H4'	1:AA:365:U:C5	2.53	0.43
1:AA:59:A:H4'	1:AA:388:G:OP1	2.17	0.43
1:AA:80:G:N1	1:AA:90:U:H5'	2.32	0.43
1:AA:161:A:H2'	1:AA:162:A:C8	2.53	0.43
1:AA:319:G:O2'	1:AA:320:C:H5'	2.18	0.43
1:AA:339:C:OP1	46:BO:96:THR:OG1	2.35	0.43
1:AA:570:G:O4'	1:AA:820:U:O2	2.35	0.43
1:AA:911:U:H2'	1:AA:912:C:C6	2.53	0.43
1:AA:962:C:H2'	1:AA:963:G:C8	2.52	0.43
1:AA:1060:C:C5	3:AC:2:GLY:HA3	2.54	0.43
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.53	0.43
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.18	0.43
3:AC:34:LEU:O	3:AC:35:GLU:C	2.61	0.43
4:AD:155:LEU:CB	4:AD:158:ILE:HG12	2.43	0.43
5:AE:76:ILE:HD12	5:AE:142:LEU:HD21	2.00	0.43
6:AF:31:GLU:O	6:AF:33:TYR:N	2.51	0.43
9:AI:88:TYR:O	9:AI:89:ASN:ND2	2.51	0.43
9:AI:99:LEU:C	9:AI:101:PHE:N	2.76	0.43
12:AL:8:ASN:O	12:AL:12:ARG:HG3	2.19	0.43
12:AL:60:LEU:HD11	12:AL:85:ILE:HG12	2.00	0.43
12:AL:90:VAL:HG21	12:AL:96:VAL:CG1	2.48	0.43
13:AM:70:LEU:CA	13:AM:73:GLU:HB3	2.48	0.43
18:AR:74:ARG:O	18:AR:75:ILE:C	2.60	0.43
22:AV:10:G:H2'	22:AV:11:A:H8	1.82	0.43
22:AV:53:G:H5''	22:AV:54:U:OP2	2.18	0.43
22:AV:66:C:C5	22:AV:67:C:C5	3.06	0.43
24:AY:19:ILE:HD12	24:AY:127:MET:HG2	2.00	0.43
24:AY:21:HIS:CD2	24:AY:122:ARG:HG2	2.53	0.43
24:AY:78:PRO:HB3	24:AY:83:LEU:CA	2.47	0.43
24:AY:79:TYR:O	24:AY:82:CYS:O	2.36	0.43
24:AY:169:ILE:CD1	24:AY:275:TRP:HZ2	2.31	0.43
24:AY:492:GLN:CA	24:AY:504:ILE:HG12	2.49	0.43
25:B0:25:ARG:HG2	25:B0:25:ARG:NH1	2.31	0.43
26:B1:50:ARG:CG	26:B1:59:THR:HG22	2.47	0.43
32:B7:4:THR:HG22	35:BA:789:A:H5'	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:22:VAL:HG21	33:B8:53:PRO:HB2	2.00	0.43
34:B9:2:LYS:O	34:B9:34:GLN:HA	2.18	0.43
35:BA:7:G:H8	35:BA:7:G:O5'	2.01	0.43
35:BA:16:G:H1	35:BA:524:U:H3	1.66	0.43
35:BA:76:C:H2'	35:BA:77:C:H6	1.79	0.43
35:BA:327:G:H21	35:BA:328:U:H1'	1.77	0.43
35:BA:363(E):U:H2'	35:BA:363(F):A:H1'	2.00	0.43
35:BA:363(E):U:H3'	35:BA:363(F):A:O4'	2.17	0.43
35:BA:531:C:H5''	35:BA:532:A:C6	2.53	0.43
35:BA:779:U:O5'	35:BA:779:U:H6	2.00	0.43
35:BA:911:A:H5''	35:BA:912:C:H5''	1.99	0.43
35:BA:976:C:C5'	35:BA:1156:A:N6	2.81	0.43
35:BA:996:A:O2'	35:BA:997:G:H5'	2.18	0.43
35:BA:999:U:H6	35:BA:1154:G:C6	2.36	0.43
35:BA:1009:A:O4'	52:BU:59:ARG:HG2	2.17	0.43
35:BA:1645:G:H5''	35:BA:1646:C:C5'	2.49	0.43
35:BA:2010:G:C5	35:BA:2011:U:C5	3.06	0.43
35:BA:2048:G:O6	35:BA:2049:G:C6	2.72	0.43
35:BA:2064:C:H2'	35:BA:2065:C:C6	2.53	0.43
35:BA:2300:G:H2'	35:BA:2301:C:H6	1.80	0.43
35:BA:2395:C:O2'	35:BA:2396:G:O5'	2.31	0.43
35:BA:2633:G:H2'	35:BA:2634:G:O4'	2.19	0.43
35:BA:2674:G:C6	35:BA:2675:A:C5	3.06	0.43
37:BC:45:ALA:O	37:BC:46:LYS:C	2.60	0.43
38:BD:117:VAL:HG21	38:BD:129:ASN:N	2.33	0.43
39:BE:13:ARG:HA	39:BE:23:VAL:HG22	1.99	0.43
39:BE:21:VAL:C	39:BE:22:PRO:O	2.58	0.43
40:BF:125:LEU:N	40:BF:125:LEU:CD2	2.77	0.43
41:BG:7:LEU:O	41:BG:9:ARG:N	2.51	0.43
41:BG:72:ARG:CZ	41:BG:86:MET:HA	2.47	0.43
46:BO:28:SER:O	46:BO:29:ASN:ND2	2.51	0.43
46:BO:88:ASN:CG	46:BO:92:GLU:HB3	2.43	0.43
47:BP:106:LEU:HD11	47:BP:112:LEU:CD2	2.48	0.43
47:BP:130:PHE:HB3	47:BP:135:LEU:HD23	2.00	0.43
48:BQ:54:MET:HE2	48:BQ:64:ILE:HD13	2.00	0.43
48:BQ:101:ARG:HG3	48:BQ:101:ARG:HH11	1.82	0.43
49:BR:22:ARG:O	49:BR:23:ASN:C	2.61	0.43
53:BV:32:THR:CG2	53:BV:33:VAL:N	2.78	0.43
54:BW:13:SER:HA	54:BW:99:ARG:HB2	2.00	0.43
55:BX:28:PHE:HZ	55:BX:81:VAL:HG21	1.72	0.43
55:BX:56:THR:O	55:BX:57:LEU:HB3	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:100:VAL:O	57:BZ:123:ASP:HA	2.18	0.43
57:BZ:168:GLU:O	57:BZ:169:GLU:C	2.61	0.43
1:AA:131:C:O2	1:AA:131:C:C2'	2.67	0.43
1:AA:184:G:C4'	1:AA:224:C:H5''	2.48	0.43
1:AA:285:G:H2'	1:AA:286:G:C8	2.44	0.43
1:AA:405:U:H5''	1:AA:495:A:H2	1.83	0.43
1:AA:670:G:H8	1:AA:670:G:O5'	2.01	0.43
1:AA:716:A:H2'	1:AA:717:C:O4'	2.18	0.43
1:AA:1152:A:O2'	1:AA:1153:C:C6	2.70	0.43
1:AA:1306:A:C4	1:AA:1307:U:C6	3.06	0.43
2:AB:102:LEU:CD2	2:AB:176:GLU:HB3	2.34	0.43
2:AB:124:SER:O	2:AB:126:GLU:N	2.49	0.43
3:AC:109:PRO:C	3:AC:111:LEU:N	2.74	0.43
3:AC:155:GLY:O	3:AC:157:ILE:HG13	2.18	0.43
3:AC:172:ARG:C	3:AC:174:PRO:HD3	2.43	0.43
5:AE:37:ARG:C	5:AE:38:GLN:CG	2.88	0.43
5:AE:145:LYS:HA	5:AE:148:VAL:HB	2.00	0.43
7:AG:60:LYS:O	7:AG:63:LYS:HB3	2.18	0.43
7:AG:127:ALA:O	7:AG:130:GLY:N	2.50	0.43
11:AK:126:ARG:O	11:AK:127:LYS:C	2.60	0.43
12:AL:28:LYS:O	12:AL:29:GLY:C	2.61	0.43
13:AM:92:HIS:CE1	13:AM:98:VAL:HG21	2.53	0.43
14:AN:21:TYR:N	14:AN:21:TYR:HD1	2.15	0.43
14:AN:26:ARG:HH11	14:AN:47:LEU:CD2	2.31	0.43
15:AO:11:VAL:O	15:AO:12:ILE:C	2.61	0.43
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.48	0.43
18:AR:44:LEU:N	18:AR:44:LEU:CD1	2.81	0.43
18:AR:63:GLN:O	18:AR:66:LEU:N	2.51	0.43
19:AS:29:ARG:N	19:AS:29:ARG:CD	2.81	0.43
24:AY:32:LYS:O	24:AY:35:LEU:CB	2.65	0.43
24:AY:105:ALA:CA	24:AY:319:ARG:NH1	2.56	0.43
24:AY:399:ARG:O	24:AY:437:ILE:HA	2.19	0.43
24:AY:493:LEU:HD23	24:AY:493:LEU:HA	1.83	0.43
26:B1:82:LEU:HD13	26:B1:82:LEU:HA	1.68	0.43
28:B3:10:LYS:NZ	28:B3:15:TYR:OH	2.43	0.43
32:B7:1:MET:HE2	32:B7:1:MET:HB2	1.73	0.43
32:B7:33:ARG:HD2	35:BA:467:G:OP1	2.18	0.43
35:BA:45:C:H5''	35:BA:215:G:OP2	2.18	0.43
35:BA:109:G:C5'	35:BA:348:G:H4'	2.49	0.43
35:BA:124:G:H8	35:BA:124:G:O5'	2.00	0.43
35:BA:143:G:O4'	55:BX:37:THR:HG21	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:185:U:C4'	35:BA:218:A:H4'	2.49	0.43
35:BA:187:G:H1	35:BA:209:C:H42	1.67	0.43
35:BA:271(F):C:C2'	35:BA:271(G):C:H5'	2.48	0.43
35:BA:299:A:C6	35:BA:300:A:C6	3.06	0.43
35:BA:589:C:C2	35:BA:590:A:C8	3.06	0.43
35:BA:672:C:C3'	35:BA:673:C:H5''	2.49	0.43
35:BA:782:A:N1	38:BD:226:MET:HG2	2.24	0.43
35:BA:824:A:C6	35:BA:825:C:C4	3.07	0.43
35:BA:878:A:C6	35:BA:900:A:N7	2.86	0.43
35:BA:1025:G:H1'	35:BA:1135:C:O4'	2.17	0.43
35:BA:1042:G:C2	35:BA:1043:C:H1'	2.54	0.43
35:BA:1091:G:C2	35:BA:1092:C:C4	3.07	0.43
35:BA:1242:A:C6	47:BP:8:PRO:HB2	2.53	0.43
35:BA:1260:G:C4	35:BA:1261:C:C6	3.06	0.43
35:BA:1338:G:N3	35:BA:1393:A:H2	2.15	0.43
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.53	0.43
35:BA:1647:G:H3'	35:BA:1647:G:OP2	2.19	0.43
35:BA:1679:U:C4	35:BA:1680:U:C4	3.06	0.43
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.48	0.43
35:BA:1750:G:C2'	35:BA:1751:C:H5'	2.47	0.43
35:BA:1798:U:C2	35:BA:1822:G:C2	3.07	0.43
35:BA:2106:G:H2'	35:BA:2107:C:C1'	2.49	0.43
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.99	0.43
35:BA:2395:C:C6	35:BA:2396:G:C8	3.06	0.43
36:BB:11:C:OP2	36:BB:12:C:H5	2.01	0.43
36:BB:95:C:O2'	36:BB:96:U:C5'	2.62	0.43
37:BC:2:LYS:HD3	37:BC:2:LYS:C	2.39	0.43
37:BC:192:PHE:O	37:BC:192:PHE:CD1	2.72	0.43
38:BD:80:ALA:O	38:BD:113:VAL:HG12	2.19	0.43
38:BD:97:TYR:C	38:BD:99:ASP:H	2.25	0.43
38:BD:148:GLU:H	38:BD:154:LYS:HZ2	1.65	0.43
39:BE:9:VAL:HG12	39:BE:25:VAL:HB	1.97	0.43
39:BE:31:CYS:HA	39:BE:50:GLY:O	2.19	0.43
40:BF:119:ARG:NH1	40:BF:119:ARG:CG	2.81	0.43
40:BF:155:LEU:HD12	40:BF:156:LEU:N	2.33	0.43
41:BG:36:LYS:HG2	41:BG:37:VAL:N	2.34	0.43
42:BH:30:LYS:HB2	42:BH:79:VAL:C	2.42	0.43
42:BH:41:MET:HE1	42:BH:52:VAL:HG22	1.99	0.43
48:BQ:21:THR:O	48:BQ:22:LYS:HB3	2.18	0.43
49:BR:60:LEU:HA	49:BR:63:ARG:HD2	1.99	0.43
51:BT:50:ILE:HD11	51:BT:64:ARG:HB3	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:83:LEU:CG	52:BU:88:ILE:HD11	2.46	0.43
52:BU:95:LEU:HD12	53:BV:11:GLN:HE21	1.84	0.43
53:BV:35:LEU:O	53:BV:36:PRO:C	2.61	0.43
54:BW:25:ARG:CA	54:BW:71:VAL:HG11	2.28	0.43
54:BW:76:VAL:HG22	54:BW:101:SER:HB2	2.00	0.43
57:BZ:111:VAL:O	57:BZ:113:ALA:O	2.36	0.43
57:BZ:166:SER:H	57:BZ:167:PRO:HA	1.83	0.43
1:AA:108:G:N3	1:AA:108:G:H5''	2.33	0.43
1:AA:139:G:H2'	1:AA:140:A:C8	2.54	0.43
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.18	0.43
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.19	0.43
1:AA:933:G:OP2	7:AG:3:ARG:HB2	2.19	0.43
1:AA:959:A:C4'	1:AA:985:C:H4'	2.49	0.43
1:AA:1015:A:O2'	14:AN:15:LYS:NZ	2.48	0.43
1:AA:1186:G:C6	1:AA:1187:G:N7	2.86	0.43
1:AA:1269:A:C2	1:AA:1313:U:H1'	2.52	0.43
1:AA:1328:C:O2'	1:AA:1329:A:H5'	2.18	0.43
2:AB:26:PRO:C	2:AB:28:PHE:H	2.26	0.43
2:AB:82:ARG:HH11	2:AB:82:ARG:HG2	1.84	0.43
2:AB:95:GLN:HG3	2:AB:148:TYR:HA	2.01	0.43
4:AD:82:ALA:O	4:AD:89:THR:HG22	2.19	0.43
4:AD:170:VAL:O	4:AD:171:GLY:O	2.36	0.43
4:AD:205:GLU:O	4:AD:206:PHE:C	2.59	0.43
5:AE:80:ILE:HD11	5:AE:138:ALA:CB	2.48	0.43
6:AF:7:ASN:ND2	18:AR:34:TYR:OH	2.51	0.43
7:AG:118:VAL:O	7:AG:119:ARG:O	2.37	0.43
8:AH:4:ASP:O	8:AH:5:PRO:O	2.36	0.43
13:AM:60:VAL:CG1	13:AM:61:GLU:N	2.73	0.43
13:AM:102:ARG:CD	13:AM:105:THR:OG1	2.65	0.43
13:AM:108:ARG:HG3	13:AM:108:ARG:NH1	2.34	0.43
14:AN:29:ARG:HH11	14:AN:29:ARG:HG3	1.84	0.43
15:AO:24:SER:OG	15:AO:27:VAL:CG2	2.66	0.43
18:AR:54:ARG:O	18:AR:55:ARG:CG	2.65	0.43
20:AT:58:LYS:C	20:AT:61:SER:HB3	2.42	0.43
24:AY:103:LEU:HB3	24:AY:106:VAL:CG1	2.49	0.43
24:AY:446:PHE:CA	24:AY:449:VAL:HG22	2.46	0.43
25:B0:53:MET:HE2	25:B0:53:MET:HB3	1.88	0.43
26:B1:7:ILE:CG2	26:B1:66:HIS:HD2	2.31	0.43
30:B5:9:LYS:HE3	35:BA:2019:A:N7	2.34	0.43
30:B5:47:PRO:C	30:B5:49:CYS:H	2.25	0.43
32:B7:5:TRP:HD1	35:BA:1612:C:O3'	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:182:A:H2	35:BA:433:C:O2	2.00	0.43
35:BA:272(G):C:O2	35:BA:363(D):G:N2	2.51	0.43
35:BA:392:C:H2'	35:BA:393:C:C6	2.54	0.43
35:BA:534:U:O5'	35:BA:534:U:H6	2.01	0.43
35:BA:553:G:C2'	35:BA:554:U:H5'	2.48	0.43
35:BA:558:G:OP2	45:BN:111:PRO:HD2	2.17	0.43
35:BA:586:A:N1	35:BA:1254:A:C2	2.86	0.43
35:BA:587:C:O2'	35:BA:588:U:P	2.77	0.43
35:BA:783:A:C8	35:BA:783:A:H3'	2.54	0.43
35:BA:783:A:H2'	35:BA:784:A:O5'	2.18	0.43
35:BA:910:A:H3'	35:BA:911:A:C8	2.54	0.43
35:BA:1023:U:H4'	35:BA:1123:C:OP1	2.18	0.43
35:BA:1072:C:O2	35:BA:1094:U:O4	2.36	0.43
35:BA:1137:G:O2'	35:BA:2039:C:C5'	2.64	0.43
35:BA:1278:A:H5'	49:BR:24:GLN:HE21	1.83	0.43
35:BA:1423:G:O2'	35:BA:1424:G:O4'	2.34	0.43
35:BA:1484:G:N2	35:BA:1506:C:N3	2.66	0.43
35:BA:1665:A:H1'	46:BO:1:MET:SD	2.59	0.43
35:BA:1797:C:N4	35:BA:1822:G:H1	2.16	0.43
35:BA:2280:G:C2	35:BA:2281:C:C5	3.07	0.43
35:BA:2284:C:H2'	35:BA:2285:C:C6	2.47	0.43
35:BA:2345:G:N2	35:BA:2382:G:H8	2.16	0.43
35:BA:2348:U:H5	35:BA:2382:G:C2	2.35	0.43
35:BA:2540:C:C2'	35:BA:2541:A:O4'	2.60	0.43
35:BA:2742:C:H2'	35:BA:2743:C:C6	2.54	0.43
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.48	0.43
35:BA:2877:G:H8	35:BA:2877:G:OP2	2.02	0.43
36:BB:101:G:N9	36:BB:102:A:C8	2.86	0.43
37:BC:227:HIS:O	37:BC:228:SER:HB3	2.19	0.43
38:BD:80:ALA:HB3	38:BD:94:LEU:HD12	1.99	0.43
38:BD:92:ILE:HG22	38:BD:106:ILE:CG1	2.45	0.43
38:BD:242:ARG:HH11	38:BD:246:PRO:HG3	1.83	0.43
38:BD:247:ALA:HB2	38:BD:253:GLN:CG	2.48	0.43
39:BE:101:ARG:HB2	39:BE:201:THR:HG21	2.00	0.43
39:BE:119:ARG:HG3	39:BE:160:TYR:CD1	2.53	0.43
39:BE:140:SER:C	39:BE:141:ILE:HG23	2.44	0.43
40:BF:2:LYS:C	40:BF:3:GLU:HG2	2.44	0.43
41:BG:51:ARG:NH1	41:BG:53:LEU:HD11	2.34	0.43
43:BJ:25:UNK:O	43:BJ:26:UNK:CB	2.66	0.43
45:BN:110:GLY:C	45:BN:112:LEU:N	2.75	0.43
49:BR:67:LEU:O	49:BR:68:ARG:C	2.61	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:91:ARG:HG2	51:BT:116:ALA:CA	2.46	0.43
51:BT:91:ARG:CG	51:BT:116:ALA:HA	2.45	0.43
52:BU:12:ARG:HA	52:BU:15:LYS:HE2	1.99	0.43
52:BU:80:ILE:O	52:BU:80:ILE:CG2	2.66	0.43
54:BW:82:LEU:HD12	54:BW:82:LEU:HA	1.82	0.43
56:BY:68:HIS:C	56:BY:70:SER:N	2.77	0.43
57:BZ:31:ARG:HG3	57:BZ:32:HIS:ND1	2.34	0.43
1:AA:80:G:H5'	1:AA:82:U:OP2	2.18	0.43
1:AA:393:A:C6	1:AA:394:G:N7	2.86	0.43
1:AA:502:G:C2	1:AA:544:G:C2	3.06	0.43
1:AA:580:U:H5''	15:AO:58:MET:HE3	2.00	0.43
1:AA:591:U:C2	1:AA:649:G:N2	2.87	0.43
1:AA:594:G:C2'	1:AA:595:G:H5'	2.49	0.43
1:AA:682:G:C2	1:AA:683:G:C8	3.07	0.43
1:AA:915:A:C5	1:AA:916:G:C8	3.06	0.43
1:AA:971:G:H5''	1:AA:972:C:H5''	2.01	0.43
1:AA:1153:C:O2'	1:AA:1154:G:P	2.76	0.43
1:AA:1165:C:C4	1:AA:1166:G:N7	2.87	0.43
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.17	0.43
1:AA:1312:G:H2'	1:AA:1313:U:C6	2.52	0.43
1:AA:1423:G:C5'	46:BO:49:ARG:NH1	2.79	0.43
2:AB:74:LYS:HD2	2:AB:166:ASP:HB2	2.00	0.43
2:AB:211:ILE:H	2:AB:211:ILE:HG13	1.56	0.43
3:AC:30:ARG:HG3	14:AN:37:PHE:O	2.19	0.43
3:AC:101:LEU:HD23	3:AC:101:LEU:HA	1.64	0.43
3:AC:155:GLY:C	3:AC:196:LEU:HD13	2.42	0.43
4:AD:170:VAL:HG11	4:AD:174:LEU:HB3	2.01	0.43
5:AE:56:GLN:O	5:AE:59:GLY:N	2.50	0.43
6:AF:5:GLU:HG2	6:AF:62:TRP:HZ2	1.83	0.43
7:AG:31:MET:HE2	7:AG:31:MET:HB3	1.81	0.43
7:AG:154:TYR:O	7:AG:155:ARG:C	2.61	0.43
11:AK:64:ALA:O	11:AK:67:ASP:HB3	2.19	0.43
11:AK:71:LYS:HB2	11:AK:71:LYS:HE3	1.84	0.43
15:AO:56:LEU:HD23	15:AO:56:LEU:HA	1.83	0.43
16:AP:8:ARG:HB3	16:AP:28:ARG:NH1	2.33	0.43
17:AQ:18:THR:CG2	17:AQ:69:LYS:HD2	2.48	0.43
17:AQ:60:ILE:CG1	17:AQ:61:GLU:N	2.81	0.43
19:AS:38:SER:OG	19:AS:71:LEU:HD12	2.19	0.43
21:AU:13:ILE:HA	21:AU:22:ARG:NH1	2.33	0.43
22:AV:26:G:C5	22:AV:27:U:C5	3.07	0.43
24:AY:26:LYS:HG2	58:AY:1000:GCP:PB	2.58	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:96:SER:HA	24:AY:99:THR:OG1	2.19	0.43
24:AY:113:ILE:CG2	24:AY:114:ASP:N	2.58	0.43
24:AY:255:PHE:HE1	24:AY:275:TRP:HZ3	1.52	0.43
24:AY:419:LEU:CD1	24:AY:449:VAL:HG12	2.36	0.43
26:B1:46:LEU:HD11	26:B1:61:ARG:O	2.19	0.43
26:B1:94:LEU:CD1	26:B1:94:LEU:N	2.82	0.43
35:BA:363(A):A:N3	35:BA:363(A):A:H2'	2.34	0.43
35:BA:654(T):C:O5'	35:BA:654(T):C:H6	2.01	0.43
35:BA:770:G:C6	35:BA:771:G:C5	3.07	0.43
35:BA:1075:C:C4	35:BA:1076:C:N4	2.86	0.43
35:BA:1106:G:C2	35:BA:1107:G:H1'	2.53	0.43
35:BA:1290:C:O5'	35:BA:1290:C:H6	2.01	0.43
35:BA:1491:G:C2	35:BA:1500:G:N3	2.87	0.43
35:BA:1611:C:H42	35:BA:1620:G:H1	1.65	0.43
35:BA:1722:A:O2'	35:BA:1739:U:H5''	2.18	0.43
35:BA:1754:C:H5'	51:BT:101:PHE:CE2	2.53	0.43
35:BA:1835:G:N3	35:BA:1835:G:H2'	2.34	0.43
35:BA:1906:G:N7	35:BA:1929:G:H2'	2.33	0.43
35:BA:1953:A:H2	35:BA:2549:G:N3	2.17	0.43
35:BA:1956:U:O2	35:BA:1985:G:H4'	2.19	0.43
35:BA:2102:U:C2'	35:BA:2103:C:O4'	2.60	0.43
35:BA:2127:G:C6	35:BA:2128:C:N4	2.87	0.43
35:BA:2283:C:N4	35:BA:2389:G:C6	2.87	0.43
35:BA:2345:G:N7	35:BA:2372:G:C2	2.86	0.43
35:BA:2438:U:C5'	35:BA:2600:A:H5'	2.49	0.43
35:BA:2551:C:H2'	35:BA:2552:U:C6	2.53	0.43
35:BA:2591:C:OP1	38:BD:239:ARG:HB2	2.19	0.43
35:BA:2746:U:C3'	35:BA:2747:G:H5'	2.46	0.43
35:BA:2772:C:H2'	35:BA:2773:C:C6	2.53	0.43
36:BB:37:C:N3	36:BB:48:A:O2'	2.49	0.43
36:BB:66:A:C6	36:BB:108:U:N3	2.86	0.43
37:BC:100:ILE:HG21	37:BC:126:LYS:HE3	2.01	0.43
38:BD:27:THR:HB	38:BD:83:GLU:OE2	2.18	0.43
39:BE:196:VAL:O	39:BE:197:ILE:C	2.60	0.43
40:BF:13:SER:O	40:BF:14:PRO:O	2.36	0.43
40:BF:17:ARG:HH11	40:BF:17:ARG:HG3	1.84	0.43
40:BF:139:PHE:C	40:BF:141:ALA:N	2.77	0.43
42:BH:98:LEU:HD12	42:BH:98:LEU:C	2.42	0.43
45:BN:22:THR:OG1	45:BN:25:ARG:CB	2.63	0.43
47:BP:96:THR:O	47:BP:100:LEU:CD2	2.67	0.43
47:BP:144:GLU:O	47:BP:144:GLU:HG2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:109:VAL:O	48:BQ:109:VAL:HG12	2.18	0.43
48:BQ:127:ILE:CD1	48:BQ:128:LYS:O	2.67	0.43
50:BS:17:ARG:C	50:BS:19:LYS:N	2.74	0.43
50:BS:23:ARG:O	50:BS:24:LEU:O	2.37	0.43
50:BS:24:LEU:HB2	50:BS:85:VAL:HG12	1.99	0.43
50:BS:84:GLN:O	50:BS:85:VAL:HG13	2.17	0.43
50:BS:106:ARG:HD3	50:BS:107:GLU:O	2.18	0.43
52:BU:59:ARG:HG2	52:BU:59:ARG:HH11	1.82	0.43
52:BU:92:ARG:CZ	53:BV:11:GLN:H	2.31	0.43
53:BV:96:ILE:N	53:BV:96:ILE:CD1	2.65	0.43
55:BX:11:PRO:HG2	55:BX:13:LEU:HG	2.01	0.43
55:BX:29:TRP:C	55:BX:30:VAL:HG13	2.43	0.43
56:BY:2:ARG:C	56:BY:4:LYS:N	2.76	0.43
56:BY:43:ASN:C	56:BY:44:ILE:HD12	2.43	0.43
56:BY:86:ARG:O	56:BY:88:LYS:NZ	2.51	0.43
57:BZ:8:TYR:HD2	57:BZ:38:TYR:CZ	2.36	0.43
57:BZ:40:ASP:OD1	57:BZ:42:VAL:N	2.51	0.43
1:AA:8:A:H5'	5:AE:120:THR:O	2.19	0.43
1:AA:59:A:H5'	1:AA:60:A:C5'	2.49	0.43
1:AA:323:U:H4'	20:AT:22:ARG:HB2	2.01	0.43
1:AA:448:A:C2	1:AA:487:A:C2	3.07	0.43
1:AA:488:C:O5'	1:AA:488:C:H6	2.02	0.43
1:AA:557:G:H3'	1:AA:558:G:C8	2.54	0.43
1:AA:585:G:C4'	12:AL:8:ASN:HD22	2.21	0.43
1:AA:619:U:O2	4:AD:134:ASP:OD1	2.36	0.43
1:AA:787:A:C2	1:AA:788:U:C1'	3.01	0.43
1:AA:825:G:C6	1:AA:876:G:C6	3.07	0.43
1:AA:874:G:C5	1:AA:875:C:C4	3.07	0.43
1:AA:886:G:N2	1:AA:912:C:H1'	2.34	0.43
1:AA:1004:A:C2'	1:AA:1005:A:H5'	2.49	0.43
1:AA:1015:A:C6	1:AA:1016:A:C6	3.06	0.43
1:AA:1055:A:O5'	1:AA:1055:A:C8	2.72	0.43
1:AA:1327:C:C2'	1:AA:1328:C:H6	2.30	0.43
1:AA:1356:G:C2	1:AA:1357:A:C5	3.07	0.43
1:AA:1442(A):G:H22	51:BT:121:ILE:CG1	2.07	0.43
1:AA:1492:A:H8	1:AA:1492:A:P	2.41	0.43
3:AC:12:LEU:HD23	3:AC:12:LEU:HA	1.74	0.43
3:AC:23:TYR:CE1	10:AJ:95:GLU:OE1	2.71	0.43
4:AD:109:GLY:C	4:AD:111:ALA:N	2.76	0.43
4:AD:190:ASP:O	4:AD:191:ARG:C	2.61	0.43
5:AE:103:GLY:O	5:AE:106:PRO:HG2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:49:ALA:HB2	18:AR:78:LEU:O	2.17	0.43
7:AG:18:TYR:HB3	7:AG:59:LEU:HD13	2.00	0.43
7:AG:36:LYS:O	7:AG:37:ASN:C	2.61	0.43
7:AG:111:ARG:NH1	7:AG:113:GLU:OE2	2.52	0.43
9:AI:88:TYR:O	9:AI:89:ASN:CG	2.62	0.43
10:AJ:53:PRO:CB	14:AN:42:ILE:HG13	2.48	0.43
12:AL:102:ARG:HB2	12:AL:120:TYR:HA	1.99	0.43
15:AO:43:LEU:O	15:AO:44:LYS:C	2.60	0.43
18:AR:84:LYS:NZ	18:AR:84:LYS:N	2.67	0.43
19:AS:5:LEU:C	19:AS:6:LYS:HD2	2.40	0.43
19:AS:23:ASN:C	19:AS:25:LYS:H	2.27	0.43
24:AY:492:GLN:HB3	24:AY:504:ILE:CG1	2.49	0.43
26:B1:78:LYS:HB3	26:B1:78:LYS:HE2	1.80	0.43
31:B6:11:LEU:HD11	31:B6:51:GLU:HG3	2.01	0.43
35:BA:131:G:C2	35:BA:132:G:C5	3.07	0.43
35:BA:240:G:O2'	35:BA:257:A:N6	2.52	0.43
35:BA:270:A:O2'	35:BA:271:A:H5'	2.18	0.43
35:BA:272(E):G:H2'	35:BA:272(F):C:H6	1.84	0.43
35:BA:280:C:C5	35:BA:281:G:C5	3.07	0.43
35:BA:364:C:O2'	35:BA:365:C:H5'	2.19	0.43
35:BA:571:A:C2'	53:BV:78:LYS:HZ3	2.31	0.43
35:BA:573:G:O2'	35:BA:574:C:H3'	2.18	0.43
35:BA:578:A:H4'	35:BA:1254:A:OP1	2.19	0.43
35:BA:818:G:N2	35:BA:1190:G:C6	2.86	0.43
35:BA:870:A:C5	35:BA:871:U:C6	3.07	0.43
35:BA:1013:C:H2'	35:BA:1014:U:C5'	2.46	0.43
35:BA:1015:G:N7	35:BA:1148:A:N1	2.65	0.43
35:BA:1108:U:P	43:BJ:80:UNK:HA	2.58	0.43
35:BA:1759:A:H2'	35:BA:1760:A:H8	1.83	0.43
35:BA:1816:G:C8	38:BD:62:TYR:CZ	3.06	0.43
35:BA:2049:G:C2	35:BA:2620:C:N3	2.87	0.43
35:BA:2115:G:N3	35:BA:2117:A:N7	2.67	0.43
35:BA:2235:G:N3	35:BA:2236:C:C6	2.86	0.43
35:BA:2297:C:C2'	35:BA:2298:A:H5'	2.48	0.43
35:BA:2354:G:C2	35:BA:2355:C:C5	3.07	0.43
35:BA:2472:G:H8	35:BA:2472:G:OP2	2.00	0.43
35:BA:2640:G:C2'	35:BA:2641:G:H5''	2.47	0.43
35:BA:2729:G:H1'	39:BE:187:ALA:HB3	1.97	0.43
37:BC:44:HIS:CA	37:BC:171:ILE:O	2.67	0.43
37:BC:131:LEU:HD22	37:BC:136:LEU:HD12	2.00	0.43
37:BC:171:ILE:CG2	37:BC:171:ILE:O	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:51:VAL:HG11	38:BD:54:ARG:HE	1.84	0.43
38:BD:271:ILE:CG1	38:BD:272:ALA:N	2.82	0.43
40:BF:132:VAL:O	40:BF:138:GLU:CD	2.62	0.43
41:BG:102:PHE:CD1	41:BG:103:LEU:N	2.86	0.43
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.41	0.43
44:BK:81:UNK:O	44:BK:82:UNK:CB	2.66	0.43
46:BO:1:MET:HE2	46:BO:32:TYR:HE2	1.80	0.43
46:BO:104:ARG:O	46:BO:107:ARG:HB3	2.18	0.43
47:BP:140:ALA:O	47:BP:141:ALA:HB3	2.19	0.43
50:BS:33:LYS:C	50:BS:34:HIS:CD2	2.96	0.43
53:BV:10:LYS:HE3	53:BV:10:LYS:HB2	1.81	0.43
55:BX:26:TYR:N	55:BX:26:TYR:HD1	2.17	0.43
55:BX:57:LEU:HD22	55:BX:58:HIS:N	2.34	0.43
1:AA:80:G:H5'	1:AA:81:U:H5	1.83	0.43
1:AA:155:C:H2'	1:AA:156:G:C8	2.45	0.43
1:AA:253:U:OP1	17:AQ:67:LYS:NZ	2.37	0.43
1:AA:299:G:C2	1:AA:300:A:C2	3.07	0.43
1:AA:587:G:C2	1:AA:755:G:C6	3.07	0.43
1:AA:757:U:H2'	1:AA:758:G:O4'	2.18	0.43
1:AA:826:C:H4'	8:AH:12:ARG:HG2	2.01	0.43
1:AA:830:G:C6	1:AA:831:U:C4	3.07	0.43
1:AA:986:A:H2'	1:AA:987:G:H8	1.84	0.43
1:AA:1100:C:C2	1:AA:1102:A:H5'	2.54	0.43
1:AA:1113:C:H2'	1:AA:1114:C:O5'	2.19	0.43
1:AA:1117:G:H5'	1:AA:1117:G:C8	2.46	0.43
1:AA:1156:G:O2'	1:AA:1180:A:N1	2.51	0.43
1:AA:1204:A:C4	1:AA:1205:U:C6	3.07	0.43
1:AA:1284:C:C4	1:AA:1285:A:C5	3.06	0.43
1:AA:1412:C:C2	1:AA:1413:A:C8	3.06	0.43
1:AA:1430:C:N4	1:AA:1431:C:N4	2.66	0.43
2:AB:47:THR:C	2:AB:51:LEU:CD1	2.92	0.43
2:AB:70:PHE:HD1	2:AB:70:PHE:H	1.65	0.43
2:AB:108:ILE:O	2:AB:111:ARG:HB2	2.19	0.43
2:AB:195:ASP:OD1	2:AB:195:ASP:N	2.52	0.43
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.49	0.43
8:AH:13:ILE:O	8:AH:14:ARG:C	2.61	0.43
8:AH:38:ILE:HG21	8:AH:120:THR:HG22	2.01	0.43
8:AH:104:ARG:HD2	8:AH:104:ARG:HA	1.86	0.43
11:AK:14:VAL:HG21	11:AK:35:PRO:HD3	2.01	0.43
12:AL:102:ARG:HH21	12:AL:110:VAL:CG2	2.30	0.43
13:AM:2:ALA:C	13:AM:9:ILE:HG23	2.43	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:47:LEU:HD12	14:AN:53:LEU:HD21	1.99	0.43
15:AO:77:ARG:O	15:AO:81:LEU:CB	2.66	0.43
17:AQ:40:LYS:CD	17:AQ:42:TYR:CZ	2.85	0.43
19:AS:15:LEU:O	19:AS:19:VAL:N	2.48	0.43
19:AS:72:GLY:C	19:AS:74:PHE:N	2.76	0.43
21:AU:15:ARG:O	21:AU:16:GLY:C	2.62	0.43
24:AY:84:VAL:CG1	24:AY:85:ASN:N	2.82	0.43
24:AY:164:ILE:HD11	24:AY:252:THR:CG2	2.34	0.43
24:AY:420:SER:CB	24:AY:426:GLN:HA	2.48	0.43
24:AY:444:LEU:O	24:AY:445:GLN:C	2.61	0.43
25:B0:37:LEU:O	25:B0:38:VAL:HG23	2.19	0.43
25:B0:41:ARG:HD2	25:B0:41:ARG:HA	1.54	0.43
29:B4:6:HIS:HA	41:BG:67:LYS:HD2	1.99	0.43
29:B4:19:GLY:O	29:B4:20:ASN:C	2.61	0.43
30:B5:14:ALA:O	30:B5:18:ALA:HB2	2.18	0.43
33:B8:36:LYS:O	33:B8:37:SER:C	2.60	0.43
33:B8:52:LYS:H	33:B8:53:PRO:HD2	1.81	0.43
35:BA:48:G:O2'	35:BA:118:A:N1	2.50	0.43
35:BA:252:G:H2'	35:BA:253:C:H6	1.83	0.43
35:BA:271(Q):G:O2'	35:BA:271(R):G:OP2	2.36	0.43
35:BA:434:U:O2'	35:BA:436:C:N4	2.52	0.43
35:BA:481:G:OP2	56:BY:47:LYS:HD2	2.18	0.43
35:BA:616:G:H5'	40:BF:107:LYS:NZ	2.33	0.43
35:BA:852:G:H2'	35:BA:853:G:O4'	2.19	0.43
35:BA:953:A:H2	35:BA:965:C:O2	2.01	0.43
35:BA:1107:G:OP2	35:BA:1107:G:C8	2.72	0.43
35:BA:1149:G:H2'	35:BA:1150:C:H6	1.80	0.43
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.54	0.43
35:BA:1438:U:H2'	35:BA:1439:A:H8	1.83	0.43
35:BA:1466:G:H2'	35:BA:1547:C:N4	2.34	0.43
35:BA:1475:G:H5'	35:BA:1476:C:OP2	2.17	0.43
35:BA:1936:A:H5''	35:BA:1940:U:C5	2.53	0.43
35:BA:1966:A:H2	35:BA:2592:G:N3	2.16	0.43
35:BA:2206:G:N3	35:BA:2206:G:C3'	2.80	0.43
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.54	0.43
35:BA:2329:G:N2	35:BA:2386:C:N3	2.51	0.43
35:BA:2466:C:H2'	35:BA:2467:C:C6	2.53	0.43
35:BA:2578:G:H1'	39:BE:139:GLY:HA2	2.00	0.43
37:BC:10:LEU:HG	37:BC:32:LEU:O	2.19	0.43
37:BC:23:ASP:O	37:BC:27:HIS:HB2	2.17	0.43
37:BC:59:ARG:HG2	37:BC:59:ARG:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:65:ILE:CD1	38:BD:88:ARG:NH1	2.82	0.43
39:BE:36:ARG:HH11	39:BE:36:ARG:HG2	1.83	0.43
39:BE:184:VAL:O	39:BE:185:LYS:C	2.62	0.43
40:BF:88:VAL:HG22	40:BF:89:VAL:N	2.34	0.43
41:BG:57:ALA:O	41:BG:60:LEU:N	2.44	0.43
41:BG:107:LEU:CD2	41:BG:178:PHE:CE1	3.02	0.43
46:BO:11:ALA:O	46:BO:99:PHE:N	2.51	0.43
47:BP:80:TYR:HB3	47:BP:81:GLN:H	1.57	0.43
51:BT:31:SER:N	51:BT:43:GLN:O	2.51	0.43
54:BW:76:VAL:CG2	54:BW:103:ILE:HG23	2.48	0.43
57:BZ:33:LEU:C	57:BZ:34:ASN:OD1	2.62	0.43
1:AA:286:G:H2'	1:AA:287:U:O4'	2.18	0.43
1:AA:532:A:C2	3:AC:156:ARG:NH2	2.87	0.43
1:AA:730:G:C4	1:AA:731:G:H1'	2.54	0.43
1:AA:738:C:C2	1:AA:739:C:C5	3.07	0.43
1:AA:944:G:C2	1:AA:1340:A:N6	2.87	0.43
1:AA:1060:C:C5'	14:AN:45:ARG:HH21	2.31	0.43
1:AA:1098:C:N3	1:AA:1099:G:C8	2.87	0.43
1:AA:1401:G:C2	1:AA:1402:C:H1'	2.54	0.43
1:AA:1440:C:H2'	1:AA:1441:G:C5'	2.49	0.43
1:AA:1484:C:O2'	35:BA:1961:C:C5'	2.57	0.43
2:AB:102:LEU:H	2:AB:102:LEU:HD13	1.83	0.43
2:AB:138:LEU:C	2:AB:140:HIS:H	2.26	0.43
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.33	0.43
2:AB:219:VAL:HG12	2:AB:223:ILE:HD11	2.00	0.43
4:AD:121:VAL:HG12	4:AD:134:ASP:C	2.43	0.43
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.18	0.43
7:AG:144:MET:C	7:AG:145:ALA:O	2.60	0.43
8:AH:134:ILE:HD13	8:AH:134:ILE:HA	1.75	0.43
9:AI:91:ASP:C	9:AI:93:ARG:H	2.26	0.43
11:AK:43:SER:OG	11:AK:44:SER:N	2.51	0.43
12:AL:83:VAL:HG11	12:AL:107:ALA:HB2	1.98	0.43
12:AL:104:VAL:HG12	12:AL:105:TYR:N	2.33	0.43
15:AO:4:THR:O	15:AO:7:GLU:CA	2.67	0.43
16:AP:69:THR:C	16:AP:72:ARG:HB3	2.43	0.43
18:AR:22:VAL:HB	18:AR:56:THR:HA	2.00	0.43
24:AY:173:ILE:HG23	24:AY:227:LEU:HD11	2.01	0.43
24:AY:395:PRO:HG3	24:AY:439:GLY:HA3	2.00	0.43
24:AY:469:ALA:C	24:AY:470:THR:CG2	2.89	0.43
24:AY:488:LYS:CD	24:AY:518:TYR:OH	2.66	0.43
26:B1:87:PRO:O	26:B1:88:LYS:C	2.61	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:45:VAL:HG13	30:B5:51:TYR:HD1	1.83	0.43
31:B6:52:VAL:CG2	31:B6:53:LYS:N	2.57	0.43
35:BA:25:U:H4'	54:BW:79:GLY:HA2	2.00	0.43
35:BA:49:A:N1	35:BA:118:A:C2	2.87	0.43
35:BA:59:U:O2'	35:BA:73:A:H2'	2.19	0.43
35:BA:116:C:C2'	35:BA:117:G:H5'	2.49	0.43
35:BA:143:G:C6	35:BA:143(A):C:C4	3.07	0.43
35:BA:285:C:O2'	35:BA:286:C:H5'	2.18	0.43
35:BA:519:U:H2'	35:BA:520:G:H8	1.82	0.43
35:BA:607:U:N3	35:BA:620:G:C4	2.87	0.43
35:BA:660:G:O3'	40:BF:38:ARG:NH2	2.52	0.43
35:BA:786:C:O2'	35:BA:787:U:H5'	2.18	0.43
35:BA:816:C:N4	35:BA:1192:G:N1	2.65	0.43
35:BA:1009:A:H8	35:BA:1009:A:O5'	2.01	0.43
35:BA:1332:G:H5'	35:BA:1333:C:H5	1.82	0.43
35:BA:1335:U:O5'	35:BA:1335:U:H6	2.01	0.43
35:BA:1671:U:O5'	35:BA:1671:U:H6	2.02	0.43
35:BA:1678:G:H1'	35:BA:1991:U:C1'	2.49	0.43
35:BA:1998:G:C6	35:BA:1999:C:C4	3.06	0.43
35:BA:2038:G:C6	35:BA:2039:C:C4	3.06	0.43
35:BA:2051:A:C5'	35:BA:2578:G:O5'	2.66	0.43
35:BA:2282:G:C2	35:BA:2425:A:C6	3.07	0.43
35:BA:2308:G:N2	35:BA:2309:A:N6	2.67	0.43
35:BA:2314:C:N4	35:BA:2315:G:O6	2.52	0.43
35:BA:2513:G:C6	35:BA:2514:U:C4	3.06	0.43
35:BA:2870:C:OP1	49:BR:61:HIS:CE1	2.66	0.43
36:BB:73:A:C2'	36:BB:74:U:H5'	2.48	0.43
37:BC:3:HIS:CB	37:BC:7:TYR:CD2	3.00	0.43
37:BC:100:ILE:HA	37:BC:127:MET:CE	2.49	0.43
38:BD:69:ARG:NE	38:BD:105:ILE:CD1	2.75	0.43
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.19	0.43
39:BE:114:ALA:O	39:BE:115:GLY:C	2.61	0.43
40:BF:37:VAL:O	40:BF:38:ARG:C	2.60	0.43
40:BF:73:ALA:O	40:BF:75:HIS:CD2	2.72	0.43
41:BG:44:GLY:C	41:BG:47:LYS:HE2	2.43	0.43
41:BG:139:LEU:HB2	41:BG:146:TYR:CD1	2.49	0.43
42:BH:38:SER:CB	42:BH:64:LEU:HD21	2.49	0.43
43:BJ:48:UNK:O	43:BJ:49:UNK:CB	2.67	0.43
43:BJ:119:UNK:O	43:BJ:120:UNK:CB	2.67	0.43
45:BN:120:LEU:C	45:BN:120:LEU:HD13	2.44	0.43
46:BO:8:LEU:N	46:BO:8:LEU:CD1	2.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:31:LYS:C	46:BO:32:TYR:HD1	2.26	0.43
46:BO:107:ARG:NH1	51:BT:36:GLU:HG3	2.32	0.43
46:BO:119:PRO:HG2	46:BO:120:GLU:H	1.83	0.43
47:BP:62:LEU:H	47:BP:62:LEU:HD23	1.80	0.43
47:BP:80:TYR:HA	47:BP:111:ARG:HB2	2.00	0.43
49:BR:37:THR:OG1	49:BR:40:LYS:HB2	2.19	0.43
51:BT:5:ALA:HA	51:BT:8:LYS:HG3	2.01	0.43
51:BT:65:LYS:HE3	51:BT:66:VAL:C	2.44	0.43
53:BV:81:TYR:CE1	53:BV:83:ARG:NE	2.74	0.43
56:BY:17:SER:CB	56:BY:71:LYS:HE2	2.49	0.43
57:BZ:57:ILE:CD1	57:BZ:70:LEU:HA	2.42	0.43
57:BZ:128:VAL:HG13	57:BZ:133:ILE:CD1	2.49	0.43
1:AA:580:U:OP1	15:AO:54:ARG:NH2	2.52	0.43
1:AA:604:G:C6	1:AA:605:U:C4	3.07	0.43
1:AA:642:A:N7	8:AH:115:SER:HA	2.34	0.43
1:AA:667:G:C4'	15:AO:51:HIS:HD1	2.32	0.43
1:AA:747:C:C5	1:AA:748:C:O2	2.71	0.43
1:AA:865:A:H5'	1:AA:1078:U:C4	2.54	0.43
1:AA:980:C:C6	1:AA:981:U:C2	3.07	0.43
1:AA:1001:A:H1'	1:AA:1001(A):G:N2	2.33	0.43
1:AA:1095:U:O2'	1:AA:1096:C:H5'	2.19	0.43
1:AA:1203:C:H6	1:AA:1203:C:O5'	2.00	0.43
2:AB:44:LEU:CA	2:AB:47:THR:OG1	2.65	0.43
2:AB:51:LEU:HA	2:AB:54:THR:HB	2.01	0.43
2:AB:218:ALA:O	2:AB:221:LEU:N	2.52	0.43
3:AC:111:LEU:HD23	3:AC:111:LEU:HA	1.73	0.43
5:AE:80:ILE:HD11	5:AE:138:ALA:CA	2.47	0.43
7:AG:94:ARG:C	7:AG:96:GLN:N	2.76	0.43
10:AJ:9:ARG:HG2	10:AJ:69:ASN:HA	2.01	0.43
10:AJ:82:ILE:O	10:AJ:86:MET:CB	2.67	0.43
11:AK:40:ILE:CG2	11:AK:75:TYR:CD2	3.02	0.43
13:AM:53:VAL:HG12	13:AM:54:VAL:N	2.34	0.43
15:AO:38:ARG:HD2	15:AO:38:ARG:HA	1.75	0.43
16:AP:5:ARG:HB2	16:AP:6:LEU:H	1.55	0.43
16:AP:20:VAL:HG23	16:AP:34:GLU:C	2.44	0.43
20:AT:19:SER:HA	20:AT:22:ARG:HD2	1.99	0.43
24:AY:131:ARG:HH22	24:AY:162:LEU:CD1	2.32	0.43
24:AY:168:PRO:CG	24:AY:171:TRP:CH2	3.02	0.43
24:AY:190:THR:HG22	24:AY:192:LEU:CD1	2.49	0.43
24:AY:198:GLY:CA	24:AY:262:ASN:ND2	2.82	0.43
24:AY:346:LEU:CB	24:AY:366:GLY:HA3	2.31	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:384:MET:O	24:AY:385:MET:HB3	2.19	0.43
24:AY:446:PHE:O	24:AY:447:ASP:C	2.60	0.43
25:B0:51:VAL:HG21	25:B0:80:HIS:CA	2.49	0.43
26:B1:82:LEU:C	26:B1:83:GLU:CG	2.92	0.43
27:B2:36:ARG:HH21	55:BX:9:LEU:HA	1.84	0.43
28:B3:45:GLY:O	28:B3:46:ASN:C	2.60	0.43
29:B4:42:PHE:CG	29:B4:42:PHE:O	2.72	0.43
35:BA:150:C:H2'	35:BA:151:C:C6	2.53	0.43
35:BA:247:G:N2	35:BA:250:G:H5''	2.34	0.43
35:BA:362:U:O5'	35:BA:363:G:OP2	2.36	0.43
35:BA:528:A:H2	35:BA:2043:C:C5'	2.30	0.43
35:BA:587:C:H5''	35:BA:588:U:H5'	2.00	0.43
35:BA:601:C:H42	35:BA:656:G:H1	1.67	0.43
35:BA:638:G:C6	35:BA:651:G:N1	2.87	0.43
35:BA:644:A:H2	35:BA:2369:A:O2'	2.01	0.43
35:BA:781:A:H4'	38:BD:221:VAL:HG11	2.01	0.43
35:BA:862:G:H2'	35:BA:863:A:H8	1.78	0.43
35:BA:1153:C:H2'	35:BA:1153:C:O2	2.18	0.43
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.19	0.43
35:BA:1382:G:H4'	35:BA:1573:G:N2	2.33	0.43
35:BA:1415:U:H6	35:BA:1415:U:H3'	1.84	0.43
35:BA:1572:A:O2'	35:BA:1573:G:C5'	2.55	0.43
35:BA:1701:A:H3'	35:BA:1702:G:H8	1.84	0.43
35:BA:1718:G:H5'	35:BA:1718:G:C8	2.53	0.43
35:BA:1754:C:OP2	51:BT:113:LYS:HD2	2.19	0.43
35:BA:1791:A:H3'	35:BA:1792:G:C8	2.54	0.43
35:BA:1800:C:N3	35:BA:1818:U:O2	2.51	0.43
35:BA:1916:A:O5'	35:BA:1916:A:H8	2.02	0.43
35:BA:1928:A:H2'	35:BA:1929:G:O4'	2.19	0.43
35:BA:1952:A:C6	46:BO:22:ILE:CD1	2.98	0.43
35:BA:1970:A:C4	35:BA:1972:A:N7	2.87	0.43
35:BA:2046:G:N2	35:BA:2047:U:C2	2.87	0.43
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.19	0.43
35:BA:2052:G:H4'	39:BE:143:ASN:N	2.33	0.43
35:BA:2234:G:N3	35:BA:2235:G:C8	2.87	0.43
35:BA:2400:G:N1	35:BA:2401:U:O2	2.52	0.43
35:BA:2415:G:H2'	35:BA:2416:C:O4'	2.19	0.43
35:BA:2447:G:C4	35:BA:2501:C:N3	2.87	0.43
35:BA:2496:C:O2'	35:BA:2497:A:C5'	2.67	0.43
35:BA:2691:C:H6	35:BA:2691:C:C5'	2.28	0.43
35:BA:2821:A:H2'	35:BA:2822:G:H8	1.79	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2839:G:H1'	49:BR:93:GLY:H	1.82	0.43
36:BB:21:G:N3	36:BB:21:G:O4'	2.52	0.43
36:BB:56:G:O2'	36:BB:57:A:OP2	2.32	0.43
38:BD:92:ILE:CA	38:BD:105:ILE:O	2.67	0.43
38:BD:201:HIS:C	38:BD:204:ILE:HG22	2.42	0.43
39:BE:59:VAL:CG1	39:BE:63:LEU:HG	2.48	0.43
39:BE:164:ARG:C	39:BE:165:VAL:HG23	2.43	0.43
40:BF:7:TYR:HD2	40:BF:16:GLY:C	2.27	0.43
40:BF:172:TRP:CD1	40:BF:172:TRP:N	2.87	0.43
42:BH:27:LYS:HG2	42:BH:32:GLU:CD	2.44	0.43
45:BN:27:ALA:HA	45:BN:30:ILE:CG1	2.48	0.43
45:BN:93:THR:O	45:BN:94:HIS:HB2	2.18	0.43
45:BN:99:LEU:HA	45:BN:99:LEU:HD22	1.70	0.43
47:BP:40:SER:C	47:BP:41:ARG:HD2	2.43	0.43
48:BQ:21:THR:C	48:BQ:23:GLY:N	2.77	0.43
48:BQ:42:ILE:HD11	48:BQ:126:PRO:CG	2.49	0.43
48:BQ:54:MET:HB3	48:BQ:55:VAL:H	1.67	0.43
49:BR:100:LEU:N	49:BR:100:LEU:HD13	2.34	0.43
52:BU:53:ARG:O	52:BU:56:ASP:HB2	2.19	0.43
55:BX:24:GLY:CA	55:BX:82:GLN:NE2	2.82	0.43
55:BX:35:THR:HG22	55:BX:37:THR:N	2.33	0.43
57:BZ:14:LYS:O	57:BZ:18:LEU:CD2	2.67	0.43
57:BZ:125:LEU:CD2	57:BZ:164:ALA:HB3	2.49	0.43
1:AA:100:C:H2'	1:AA:101:A:C8	2.54	0.42
1:AA:123:C:O2'	1:AA:290:C:H1'	2.19	0.42
1:AA:286:G:C5	1:AA:287:U:C5	3.07	0.42
1:AA:300:A:N3	1:AA:565:U:C2	2.87	0.42
1:AA:313:A:C2	1:AA:314:C:C2	3.06	0.42
1:AA:562:C:H41	1:AA:884:U:C2'	2.31	0.42
1:AA:678:U:C4	1:AA:679:C:C4	3.06	0.42
1:AA:877:C:H5''	8:AH:88:LYS:CD	2.44	0.42
1:AA:918:A:C5	1:AA:919:A:C6	3.07	0.42
1:AA:983:A:O2'	1:AA:1050:G:OP2	2.36	0.42
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.18	0.42
1:AA:1088:G:H2'	1:AA:1089:G:O4'	2.18	0.42
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.84	0.42
1:AA:1179:A:N6	1:AA:1180:A:N1	2.66	0.42
1:AA:1225:A:OP2	13:AM:104:ARG:HB2	2.18	0.42
1:AA:1305:G:H5''	21:AU:5:ASP:H	1.84	0.42
1:AA:1308:U:C5	13:AM:99:ARG:CZ	3.01	0.42
1:AA:1407:C:C4	1:AA:1408:A:N7	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:121:LEU:HG	2:AB:126:GLU:CB	2.46	0.42
4:AD:18:LYS:CE	4:AD:31:CYS:HB3	2.49	0.42
4:AD:101:LEU:C	4:AD:103:ASN:N	2.75	0.42
8:AH:20:TYR:HE1	8:AH:76:PRO:HG2	1.82	0.42
11:AK:114:VAL:HG23	11:AK:115:PRO:HD2	2.00	0.42
12:AL:85:ILE:HD13	12:AL:85:ILE:HA	1.70	0.42
12:AL:108:ALA:C	12:AL:109:GLY:O	2.62	0.42
13:AM:69:GLU:O	13:AM:69:GLU:HG3	2.19	0.42
14:AN:26:ARG:HB3	14:AN:27:CYS:H	1.76	0.42
14:AN:57:ARG:CG	14:AN:57:ARG:NH1	2.80	0.42
15:AO:71:GLN:HA	15:AO:75:PRO:HB3	2.01	0.42
24:AY:21:HIS:CD2	24:AY:122:ARG:CB	2.96	0.42
24:AY:183:TYR:HD2	24:AY:184:HIS:N	2.16	0.42
24:AY:209:GLY:O	24:AY:210:LEU:O	2.37	0.42
24:AY:282:ARG:HG2	24:AY:319:ARG:NH2	2.34	0.42
24:AY:395:PRO:CG	24:AY:398:PHE:CZ	2.99	0.42
24:AY:423:GLY:O	24:AY:424:ALA:C	2.60	0.42
25:B0:38:VAL:CB	25:B0:59:LEU:HD12	2.49	0.42
25:B0:45:PHE:O	25:B0:59:LEU:HD11	2.19	0.42
27:B2:48:HIS:C	27:B2:52:ASP:OD2	2.62	0.42
29:B4:10:VAL:CG2	29:B4:11:PRO:CD	2.92	0.42
30:B5:13:LYS:NZ	35:BA:516:C:OP1	2.45	0.42
30:B5:16:ARG:HG2	30:B5:17:ASP:OD1	2.19	0.42
33:B8:18:ALA:C	33:B8:20:GLY:H	2.27	0.42
35:BA:199:A:C2	35:BA:2433:A:C4	3.06	0.42
35:BA:242:G:O2'	35:BA:243:U:OP2	2.37	0.42
35:BA:372:G:O3'	35:BA:373:U:H6	2.02	0.42
35:BA:481:G:H4'	35:BA:481:G:OP1	2.19	0.42
35:BA:670:A:H4'	35:BA:671:C:C5'	2.49	0.42
35:BA:1141:U:OP2	45:BN:63:THR:CG2	2.55	0.42
35:BA:1238:G:N2	35:BA:1239:G:C1'	2.82	0.42
35:BA:1275:A:C6	49:BR:16:HIS:HA	2.54	0.42
35:BA:1316:U:C2	35:BA:1337:G:N2	2.87	0.42
35:BA:1343:G:H1	35:BA:1404:C:H42	1.67	0.42
35:BA:1527:G:HO2'	35:BA:1544:A:H62	1.62	0.42
35:BA:1649:G:H2'	35:BA:1650:G:O5'	2.19	0.42
35:BA:1669:A:OP2	35:BA:2550:G:OP1	2.36	0.42
35:BA:1844:C:N3	35:BA:1845:G:N7	2.66	0.42
35:BA:1895:C:H6	35:BA:1895:C:C5'	2.25	0.42
35:BA:2007:C:C4'	35:BA:2824:C:H4'	2.49	0.42
35:BA:2048:G:H4'	35:BA:2823:A:C2	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2059:A:O3'	40:BF:69:HIS:HA	2.18	0.42
35:BA:2161:C:H2'	35:BA:2162:G:C8	2.45	0.42
35:BA:2441:C:O2'	35:BA:2442:C:H5'	2.18	0.42
35:BA:2821:A:N6	35:BA:2822:G:C6	2.87	0.42
36:BB:101:G:H2'	36:BB:102:A:C1'	2.49	0.42
38:BD:3:VAL:HG22	38:BD:200:ASP:OD2	2.19	0.42
38:BD:62:TYR:CD1	38:BD:63:ARG:N	2.87	0.42
38:BD:158:ALA:C	38:BD:161:THR:OG1	2.62	0.42
38:BD:208:LYS:HG2	38:BD:210:GLY:O	2.19	0.42
40:BF:131:GLY:HA3	40:BF:138:GLU:O	2.19	0.42
41:BG:133:LEU:HD13	41:BG:135:LEU:HD13	2.01	0.42
45:BN:19:GLU:HG2	45:BN:56:ASN:OD1	2.19	0.42
45:BN:22:THR:O	45:BN:26:LEU:CB	2.66	0.42
45:BN:28:THR:HG23	45:BN:29:LYS:N	2.34	0.42
48:BQ:110:THR:O	48:BQ:113:GLN:N	2.42	0.42
49:BR:104:ARG:O	49:BR:106:GLY:N	2.50	0.42
50:BS:26:LEU:HD22	50:BS:26:LEU:O	2.18	0.42
50:BS:106:ARG:HD2	50:BS:107:GLU:O	2.18	0.42
51:BT:28:VAL:O	51:BT:29:ARG:HB2	2.19	0.42
52:BU:110:VAL:O	52:BU:114:LYS:HG2	2.19	0.42
53:BV:43:GLU:O	53:BV:44:LYS:HG3	2.18	0.42
56:BY:65:ALA:HA	56:BY:66:PRO:HD3	1.79	0.42
57:BZ:53:ILE:HG22	57:BZ:71:VAL:CG2	2.49	0.42
1:AA:60:A:OP1	1:AA:60:A:H8	2.01	0.42
1:AA:253:U:O2'	1:AA:254:G:H5'	2.19	0.42
1:AA:505:G:C6	1:AA:535:A:C2	3.07	0.42
1:AA:686:U:C2	1:AA:687:A:N7	2.87	0.42
1:AA:848:C:H2'	1:AA:849:C:O4'	2.19	0.42
1:AA:874:G:H2'	1:AA:875:C:O5'	2.19	0.42
1:AA:929:G:C2	1:AA:930:C:C2	3.07	0.42
1:AA:978:A:OP1	1:AA:980:C:N4	2.52	0.42
1:AA:1092:A:OP1	7:AG:5:ARG:NH2	2.47	0.42
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.19	0.42
1:AA:1139:G:N2	1:AA:1143:G:C2	2.86	0.42
1:AA:1212:U:H6	1:AA:1212:U:H2'	1.64	0.42
1:AA:1220:G:N2	19:AS:54:GLY:CA	2.79	0.42
1:AA:1286:A:O2'	1:AA:1287:A:P	2.77	0.42
1:AA:1442(B):A:O2'	1:AA:1443:G:C8	2.71	0.42
3:AC:141:VAL:O	3:AC:144:SER:HB3	2.19	0.42
4:AD:59:ARG:NH1	4:AD:59:ARG:HG2	2.28	0.42
4:AD:155:LEU:C	4:AD:157:LEU:H	2.25	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:25:ILE:HD13	6:AF:25:ILE:C	2.44	0.42
7:AG:40:ALA:C	7:AG:42:ILE:N	2.75	0.42
8:AH:28:ALA:CB	8:AH:57:PRO:HB2	2.40	0.42
9:AI:95:LYS:HE2	9:AI:95:LYS:HB2	1.58	0.42
10:AJ:16:LEU:HD22	10:AJ:16:LEU:O	2.19	0.42
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.62	0.42
11:AK:33:THR:HA	11:AK:39:PRO:CA	2.40	0.42
13:AM:29:ARG:NH2	13:AM:64:TRP:CB	2.80	0.42
13:AM:70:LEU:C	13:AM:73:GLU:HB3	2.44	0.42
14:AN:8:GLU:O	14:AN:11:LYS:N	2.51	0.42
14:AN:24:CYS:HG	14:AN:40:CYS:HG	1.49	0.42
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.31	0.42
19:AS:49:ILE:N	19:AS:49:ILE:CD1	2.77	0.42
20:AT:50:GLU:C	20:AT:52:ALA:H	2.26	0.42
21:AU:18:TYR:CE2	21:AU:24:ARG:HA	2.54	0.42
24:AY:128:GLU:C	24:AY:131:ARG:HG3	2.44	0.42
24:AY:130:THR:O	24:AY:131:ARG:C	2.60	0.42
24:AY:202:GLN:O	24:AY:203:GLU:O	2.38	0.42
24:AY:299:PHE:CE1	24:AY:387:PHE:HE1	2.37	0.42
24:AY:425:VAL:C	24:AY:426:GLN:HE21	2.27	0.42
24:AY:467:ASN:O	24:AY:506:THR:HG23	2.19	0.42
27:B2:57:ILE:O	27:B2:58:ALA:C	2.60	0.42
30:B5:37:LYS:O	30:B5:37:LYS:HG3	2.19	0.42
30:B5:39:MET:O	54:BW:38:TYR:CE2	2.71	0.42
32:B7:3:ARG:O	35:BA:687:C:H4'	2.19	0.42
34:B9:17:ILE:CG2	34:B9:18:ARG:N	2.82	0.42
35:BA:84:A:N3	35:BA:85:G:H1'	2.34	0.42
35:BA:119:A:H4'	35:BA:120:U:H5'	2.01	0.42
35:BA:428:A:C6	35:BA:429:A:C2	3.07	0.42
35:BA:587:C:N4	47:BP:33:ARG:HB3	2.34	0.42
35:BA:792:G:O2'	35:BA:2440:C:N3	2.46	0.42
35:BA:837:C:C4	35:BA:941:A:N6	2.87	0.42
35:BA:1009:A:N3	35:BA:1154:G:H5'	2.34	0.42
35:BA:1057:A:H2	35:BA:1082:U:N3	2.09	0.42
35:BA:1528:A:N1	35:BA:1542:A:H2	2.16	0.42
35:BA:1653:G:C2'	35:BA:1654:A:OP2	2.67	0.42
35:BA:1664:A:OP1	35:BA:1665:A:OP2	2.37	0.42
35:BA:1859:A:N6	35:BA:1883:G:O2'	2.52	0.42
35:BA:1886:C:O2'	35:BA:1887:C:H5'	2.19	0.42
35:BA:1919:A:C2	35:BA:1920:C:O4'	2.72	0.42
35:BA:1970:A:H5''	35:BA:1971:A:OP1	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2050:C:H6	35:BA:2050:C:O5'	2.02	0.42
35:BA:2333:A:C1'	35:BA:2335:A:C5	3.02	0.42
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.18	0.42
35:BA:2443:C:C6	35:BA:2443:C:C3'	3.02	0.42
35:BA:2641:G:C2	35:BA:2774:C:N3	2.87	0.42
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.19	0.42
35:BA:2746:U:O2'	35:BA:2747:G:H5'	2.18	0.42
35:BA:2801(A):A:C4'	35:BA:2802:G:H2'	2.48	0.42
36:BB:73:A:C2	36:BB:74:U:H1'	2.54	0.42
37:BC:41:VAL:CG1	37:BC:43:VAL:HG23	2.47	0.42
37:BC:213:TYR:CE1	37:BC:223:ARG:HG3	2.54	0.42
38:BD:92:ILE:HB	38:BD:105:ILE:C	2.43	0.42
38:BD:143:HIS:O	38:BD:143:HIS:CG	2.72	0.42
38:BD:182:LEU:H	38:BD:272:ALA:CA	2.31	0.42
38:BD:250:TRP:HE3	38:BD:252:TRP:HE1	1.67	0.42
39:BE:27:LEU:HD23	51:BT:1:MET:N	2.34	0.42
41:BG:71:THR:HG22	41:BG:72:ARG:H	1.80	0.42
41:BG:170:ARG:O	41:BG:174:GLU:CB	2.67	0.42
45:BN:39:ARG:C	45:BN:41:ASP:N	2.76	0.42
45:BN:65:LYS:CD	45:BN:69:GLN:NE2	2.82	0.42
47:BP:47:ASP:OD2	47:BP:49:ARG:CB	2.62	0.42
48:BQ:38:GLU:O	48:BQ:127:ILE:HD13	2.19	0.42
50:BS:89:ARG:O	50:BS:90:GLY:O	2.37	0.42
51:BT:28:VAL:O	51:BT:29:ARG:CB	2.68	0.42
53:BV:95:LEU:HD22	53:BV:97:LYS:CD	2.50	0.42
54:BW:6:ILE:HG12	54:BW:104:THR:CG2	2.47	0.42
55:BX:28:PHE:CZ	55:BX:81:VAL:CG2	2.97	0.42
57:BZ:127:LYS:O	57:BZ:128:VAL:HB	2.18	0.42
57:BZ:141:VAL:C	57:BZ:143:GLY:N	2.75	0.42
1:AA:498:U:O2'	1:AA:499:A:H8	2.02	0.42
1:AA:543:C:P	4:AD:10:ARG:NH1	2.91	0.42
1:AA:583:A:C2	1:AA:584:G:H1'	2.55	0.42
1:AA:720:C:H3'	1:AA:721:G:H8	1.80	0.42
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	2.19	0.42
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.54	0.42
1:AA:1131:G:C2	1:AA:1132:C:N4	2.87	0.42
1:AA:1202:G:O5'	1:AA:1202:G:H8	2.02	0.42
1:AA:1489:G:C4	1:AA:1490:C:C5	3.07	0.42
2:AB:82:ARG:HH11	2:AB:82:ARG:CG	2.32	0.42
2:AB:145:LEU:HD22	2:AB:145:LEU:HA	1.75	0.42
3:AC:47:LEU:HD12	3:AC:47:LEU:HA	1.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:113:ALA:HB2	3:AC:202:ILE:HG13	2.01	0.42
4:AD:158:ILE:O	4:AD:162:LEU:HD23	2.18	0.42
5:AE:76:ILE:HG13	5:AE:77:PRO:N	2.34	0.42
5:AE:82:VAL:HB	5:AE:89:ILE:HG23	2.01	0.42
5:AE:105:VAL:N	5:AE:106:PRO:CD	2.82	0.42
6:AF:12:PRO:HD2	6:AF:55:ASP:OD2	2.19	0.42
7:AG:26:PHE:CE2	7:AG:124:LEU:HD11	2.54	0.42
7:AG:120:ILE:O	7:AG:123:GLU:N	2.52	0.42
8:AH:9:MET:CG	8:AH:26:VAL:HG21	2.49	0.42
9:AI:55:ALA:O	9:AI:56:LEU:C	2.62	0.42
9:AI:76:ALA:O	9:AI:79:LEU:HB3	2.20	0.42
10:AJ:82:ILE:O	10:AJ:86:MET:HB3	2.20	0.42
12:AL:43:VAL:HG23	12:AL:53:ARG:CB	2.49	0.42
13:AM:47:ASP:C	13:AM:48:LEU:HG	2.44	0.42
15:AO:15:PHE:N	15:AO:15:PHE:HD1	2.15	0.42
15:AO:49:ASP:CG	15:AO:52:SER:OG	2.61	0.42
18:AR:38:GLU:O	18:AR:41:LYS:HB3	2.19	0.42
19:AS:44:MET:CE	29:B4:47:GLN:NE2	2.83	0.42
20:AT:72:LEU:HD21	20:AT:80:ARG:NH2	2.32	0.42
20:AT:82:SER:O	20:AT:86:ARG:CB	2.67	0.42
21:AU:4:GLY:O	21:AU:5:ASP:C	2.61	0.42
23:AX:17:U:H2'	23:AX:18:G:C5'	2.49	0.42
24:AY:207:VAL:HG11	24:AY:215:LEU:HA	2.00	0.42
24:AY:425:VAL:HG12	24:AY:445:GLN:HG3	1.92	0.42
25:B0:43:THR:HB	35:BA:2331:G:O2'	2.19	0.42
25:B0:53:MET:N	25:B0:60:PHE:CE2	2.87	0.42
26:B1:80:LEU:CD2	26:B1:81:LYS:N	2.79	0.42
28:B3:8:LEU:HD21	28:B3:31:LEU:HG	2.01	0.42
28:B3:30:ARG:NH2	35:BA:1158:C:OP1	2.36	0.42
29:B4:9:LEU:HD11	29:B4:26:SER:N	2.33	0.42
30:B5:9:LYS:HD3	30:B5:9:LYS:HA	1.60	0.42
32:B7:7:PRO:HG3	35:BA:1612:C:C5'	2.46	0.42
32:B7:10:ARG:HD3	35:BA:770:G:H5''	2.01	0.42
32:B7:13:ALA:HB1	35:BA:125:G:C1'	2.48	0.42
35:BA:412:A:H2'	35:BA:412:A:N3	2.34	0.42
35:BA:498:G:C4	35:BA:499:U:C5	3.07	0.42
35:BA:629:G:C5'	35:BA:629:G:H8	2.25	0.42
35:BA:637:A:C2	35:BA:652:C:O4'	2.73	0.42
35:BA:648:G:C2	35:BA:649:G:N7	2.87	0.42
35:BA:772:C:O2'	35:BA:773:U:C5'	2.67	0.42
35:BA:792:G:C3'	35:BA:793:A:H5'	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:990:A:OP2	35:BA:991:C:OP2	2.37	0.42
35:BA:1171:G:H8	35:BA:1171:G:OP2	2.02	0.42
35:BA:1299:G:H4'	35:BA:1301:A:C4	2.54	0.42
35:BA:1360:A:N3	35:BA:1360:A:H2'	2.34	0.42
35:BA:1456:G:N2	35:BA:2704:C:C2	2.88	0.42
35:BA:1491:G:C6	35:BA:1500:G:N2	2.87	0.42
35:BA:1527:G:O2'	35:BA:1544:A:N6	2.35	0.42
35:BA:1791:A:N6	35:BA:1828:G:O2'	2.53	0.42
35:BA:1827:C:H3'	38:BD:222:ARG:HH12	1.84	0.42
35:BA:1830:C:O2'	35:BA:1831:G:C5'	2.66	0.42
35:BA:2097:C:O2	35:BA:2193:G:C2	2.72	0.42
35:BA:2111:C:N4	35:BA:2145:C:C6	2.88	0.42
35:BA:2250:G:C5	48:BQ:83:MET:HB3	2.53	0.42
35:BA:2372:G:C2	35:BA:2373:G:C5	3.08	0.42
35:BA:2447:G:C6	35:BA:2501:C:O2	2.71	0.42
35:BA:2695:C:H2'	35:BA:2696:U:C5	2.54	0.42
36:BB:75:G:C2'	57:BZ:85:HIS:HE1	2.29	0.42
36:BB:76:G:C4	36:BB:77:U:C6	3.07	0.42
37:BC:68:LEU:HD21	37:BC:174:PRO:HB2	2.00	0.42
37:BC:69:GLY:HA3	37:BC:180:PHE:CE1	2.54	0.42
37:BC:89:ALA:HB1	37:BC:150:GLY:O	2.18	0.42
38:BD:2:ALA:O	38:BD:3:VAL:CG2	2.59	0.42
38:BD:18:VAL:HG23	38:BD:211:ARG:HH22	1.78	0.42
38:BD:82:ILE:HA	38:BD:93:ALA:CA	2.47	0.42
38:BD:119:ALA:CB	38:BD:130:ALA:HB3	2.48	0.42
39:BE:64:LYS:O	39:BE:64:LYS:CG	2.66	0.42
40:BF:98:SER:OG	40:BF:99:TYR:N	2.52	0.42
40:BF:122:LYS:CG	40:BF:191:ARG:HG3	2.49	0.42
40:BF:125:LEU:HD12	40:BF:196:LEU:HD23	2.00	0.42
45:BN:5:VAL:HG12	45:BN:7:LYS:CG	2.31	0.42
45:BN:33:LEU:C	45:BN:35:ARG:N	2.77	0.42
45:BN:97:ARG:N	45:BN:100:GLU:OE2	2.52	0.42
46:BO:77:ILE:O	46:BO:77:ILE:HG23	2.19	0.42
48:BQ:111:GLU:O	48:BQ:114:ALA:N	2.52	0.42
50:BS:30:ARG:HB3	50:BS:89:ARG:NH1	2.33	0.42
50:BS:46:VAL:CG1	50:BS:47:THR:H	2.09	0.42
50:BS:62:LYS:O	50:BS:65:VAL:HB	2.19	0.42
50:BS:93:LYS:HD2	50:BS:93:LYS:HA	1.90	0.42
51:BT:50:ILE:CD1	51:BT:64:ARG:HB2	2.50	0.42
52:BU:20:LEU:O	52:BU:21:ALA:HB2	2.18	0.42
52:BU:36:ARG:HA	52:BU:39:LEU:HB2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:46:G:HO2'	1:AA:365:U:H1'	1.84	0.42
1:AA:68:G:H2'	1:AA:69:G:O4'	2.20	0.42
1:AA:81:U:H6	1:AA:81:U:H3'	1.85	0.42
1:AA:617:G:C2	1:AA:624:C:O2	2.72	0.42
1:AA:896:C:O2'	1:AA:897:C:H5'	2.18	0.42
1:AA:1004:A:N6	1:AA:1035:A:N7	2.68	0.42
1:AA:1168:A:C6	1:AA:1169:A:C6	3.07	0.42
1:AA:1206:G:C6	1:AA:1207:G:C6	3.07	0.42
1:AA:1269:A:C2	1:AA:1325:C:O2	2.72	0.42
1:AA:1269:A:N1	1:AA:1312:G:N3	2.67	0.42
1:AA:1441:G:OP1	1:AA:1442:G:H5'	2.19	0.42
2:AB:98:LEU:O	2:AB:99:GLY:C	2.61	0.42
3:AC:7:PRO:HG3	3:AC:184:TYR:CG	2.55	0.42
3:AC:153:VAL:HG12	3:AC:154:SER:H	1.83	0.42
4:AD:50:ARG:O	4:AD:51:PRO:C	2.60	0.42
4:AD:66:ARG:C	4:AD:68:TYR:H	2.27	0.42
4:AD:79:PHE:HB2	4:AD:93:PHE:CZ	2.54	0.42
4:AD:124:GLY:O	4:AD:126:ILE:N	2.50	0.42
6:AF:60:PHE:CZ	18:AR:78:LEU:HD21	2.55	0.42
7:AG:137:LYS:HA	7:AG:140:ASP:HB3	2.02	0.42
8:AH:112:LEU:O	8:AH:118:VAL:CG1	2.67	0.42
9:AI:45:ALA:C	9:AI:47:LEU:N	2.76	0.42
10:AJ:93:GLY:O	10:AJ:94:VAL:HG23	2.19	0.42
11:AK:90:GLY:O	11:AK:91:ARG:C	2.59	0.42
13:AM:86:CYS:O	13:AM:89:GLY:N	2.51	0.42
18:AR:43:PHE:CD2	18:AR:66:LEU:HD11	2.53	0.42
24:AY:20:SER:N	24:AY:126:LEU:HD13	2.34	0.42
24:AY:122:ARG:HB3	24:AY:126:LEU:HD21	2.01	0.42
24:AY:324:LYS:HG2	24:AY:325:TYR:H	1.83	0.42
24:AY:342:ILE:CG1	24:AY:345:ALA:HB2	2.49	0.42
24:AY:349:MET:SD	24:AY:356:VAL:HG22	2.59	0.42
24:AY:419:LEU:CD2	24:AY:424:ALA:CB	2.88	0.42
25:B0:14:ARG:CD	35:BA:2279:G:O6	2.63	0.42
29:B4:5:ILE:N	29:B4:5:ILE:CD1	2.82	0.42
30:B5:30:LEU:HD22	54:BW:38:TYR:CD2	2.55	0.42
33:B8:10:ALA:HA	33:B8:13:ARG:CG	2.45	0.42
35:BA:30:G:C2'	35:BA:31:C:O4'	2.68	0.42
35:BA:117:G:O4'	35:BA:126:A:H2	2.03	0.42
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.19	0.42
35:BA:245:G:H4'	47:BP:71:VAL:HA	2.00	0.42
35:BA:781:A:H2	35:BA:1776:G:N3	2.17	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:906:G:N1	35:BA:907:U:C4	2.88	0.42
35:BA:921:G:O2'	35:BA:922:U:H5'	2.19	0.42
35:BA:971:C:OP1	35:BA:974:G:C8	2.73	0.42
35:BA:1042:G:C5	35:BA:1114:G:N1	2.88	0.42
35:BA:1139:G:H5''	35:BA:1139:G:H8	1.84	0.42
35:BA:1168:G:C2	35:BA:1182:A:C2	3.07	0.42
35:BA:1332:G:N2	35:BA:1610:A:N7	2.67	0.42
35:BA:1901:A:O2'	35:BA:1902:C:H5'	2.19	0.42
35:BA:2255:G:H8	35:BA:2255:G:O5'	2.02	0.42
35:BA:2298:A:H2'	35:BA:2299:G:C1'	2.45	0.42
35:BA:2406:U:H5''	35:BA:2408:U:OP2	2.20	0.42
35:BA:2418:A:C5	35:BA:2419:U:C5	3.08	0.42
35:BA:2762:G:C5'	35:BA:2762:G:C8	3.02	0.42
35:BA:2785:C:O2'	35:BA:2786:U:H5'	2.20	0.42
35:BA:2838:G:C4'	49:BR:45:ARG:HH11	2.31	0.42
37:BC:59:ARG:CD	37:BC:164:ARG:NE	2.80	0.42
38:BD:31:LYS:HD3	38:BD:102:LYS:HZ2	1.83	0.42
38:BD:144:ALA:O	38:BD:192:THR:CG2	2.67	0.42
38:BD:146:GLU:HB3	38:BD:152:GLY:O	2.20	0.42
38:BD:186:HIS:NE2	38:BD:188:GLU:CB	2.82	0.42
41:BG:18:GLU:O	41:BG:19:LEU:C	2.62	0.42
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.66	0.42
42:BH:30:LYS:CB	42:BH:79:VAL:O	2.67	0.42
42:BH:83:TYR:HB3	42:BH:135:GLY:O	2.19	0.42
42:BH:94:TYR:HD1	42:BH:107:VAL:CA	2.32	0.42
45:BN:39:ARG:O	45:BN:42:TRP:HB3	2.19	0.42
46:BO:105:GLU:C	46:BO:107:ARG:N	2.75	0.42
50:BS:63:THR:O	50:BS:64:GLU:C	2.62	0.42
50:BS:85:VAL:H	50:BS:106:ARG:CB	2.32	0.42
51:BT:52:ILE:HG12	51:BT:61:PHE:HB2	2.00	0.42
51:BT:80:SER:OG	51:BT:81:PRO:N	2.49	0.42
52:BU:55:ARG:HG3	52:BU:55:ARG:NH1	2.34	0.42
52:BU:63:VAL:O	52:BU:66:ASN:N	2.52	0.42
53:BV:75:PHE:CE1	53:BV:77:ALA:N	2.88	0.42
56:BY:39:VAL:O	56:BY:40:GLU:CD	2.62	0.42
57:BZ:52:SER:C	57:BZ:53:ILE:HG23	2.44	0.42
57:BZ:69:THR:O	57:BZ:70:LEU:HB3	2.19	0.42
1:AA:130:A:O3'	1:AA:189(G):G:N2	2.52	0.42
1:AA:277:C:C5'	17:AQ:68:ARG:HH12	2.32	0.42
1:AA:502:G:H4'	1:AA:550:G:O2'	2.19	0.42
1:AA:559:A:O4'	1:AA:561:U:H2'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:606:G:C2	1:AA:633:G:O6	2.72	0.42
1:AA:914:A:H2'	1:AA:915:A:C8	2.51	0.42
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.19	0.42
1:AA:986:A:C2'	1:AA:987:G:O4'	2.67	0.42
1:AA:1050:G:N1	1:AA:1209:C:N3	2.68	0.42
1:AA:1118:C:H2'	1:AA:1119:C:O5'	2.19	0.42
1:AA:1133:G:C1'	1:AA:1142:G:H22	2.33	0.42
1:AA:1133:G:C4	1:AA:1142:G:N1	2.88	0.42
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.54	0.42
1:AA:1251:A:H2'	1:AA:1252:A:O4'	2.19	0.42
1:AA:1326:C:O2'	1:AA:1327:C:C5'	2.67	0.42
1:AA:1349:A:C6	1:AA:1374:A:C8	3.07	0.42
1:AA:1481:U:C2	1:AA:1482:G:C8	3.07	0.42
2:AB:60:ASP:O	2:AB:64:ARG:HB3	2.20	0.42
2:AB:187:LEU:HA	2:AB:201:ILE:HB	2.02	0.42
4:AD:126:ILE:HG23	4:AD:127:THR:H	1.84	0.42
5:AE:131:ILE:O	5:AE:135:THR:CB	2.67	0.42
8:AH:27:PRO:HG3	8:AH:58:TYR:CZ	2.55	0.42
9:AI:70:LYS:HE2	9:AI:70:LYS:HB2	1.74	0.42
13:AM:102:ARG:NH1	13:AM:102:ARG:HG3	2.34	0.42
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.44	0.42
20:AT:40:ALA:HB2	20:AT:55:ILE:HG21	2.01	0.42
20:AT:88:VAL:HG12	20:AT:92:LEU:HD12	2.02	0.42
24:AY:30:THR:O	24:AY:34:LEU:HG	2.19	0.42
24:AY:117:LYS:HB3	24:AY:120:GLU:CD	2.45	0.42
24:AY:154:LEU:O	24:AY:156:ASP:N	2.53	0.42
24:AY:246:PHE:HB2	24:AY:251:ILE:HD11	2.01	0.42
24:AY:453:LEU:O	24:AY:457:TYR:O	2.38	0.42
24:AY:509:VAL:HA	24:AY:512:ARG:HG3	2.01	0.42
24:AY:527:ARG:HD2	24:AY:528:GLU:O	2.19	0.42
26:B1:81:LYS:C	26:B1:82:LEU:HD22	2.44	0.42
28:B3:35:ARG:HH11	28:B3:35:ARG:CB	2.33	0.42
29:B4:9:LEU:CD1	29:B4:10:VAL:N	2.82	0.42
29:B4:40:HIS:CD2	29:B4:41:PRO:HA	2.54	0.42
30:B5:18:ALA:O	30:B5:21:SER:HB2	2.19	0.42
31:B6:15:GLU:HB2	31:B6:20:ASN:CB	2.49	0.42
31:B6:50:ARG:HB3	31:B6:51:GLU:H	1.75	0.42
32:B7:8:ASN:ND2	32:B7:8:ASN:C	2.78	0.42
32:B7:11:LYS:HE2	35:BA:686:G:C5'	2.49	0.42
32:B7:34:ARG:HD3	32:B7:34:ARG:HA	1.89	0.42
35:BA:341:G:C6	35:BA:342:G:C5	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:426:C:O2'	35:BA:427:U:H5'	2.20	0.42
35:BA:614:U:H2'	35:BA:614(A):U:H5'	2.01	0.42
35:BA:659:C:C2	35:BA:660:G:C8	3.07	0.42
35:BA:810:U:OP1	35:BA:1253:A:N6	2.51	0.42
35:BA:915:C:C4	35:BA:916:G:C5	3.07	0.42
35:BA:933:A:H2'	35:BA:934:G:O4'	2.19	0.42
35:BA:1159:U:H6	35:BA:1159:U:H5''	1.84	0.42
35:BA:1188:U:H2'	35:BA:1189:A:O4'	2.19	0.42
35:BA:1202:C:C5	35:BA:1203:G:C5	3.08	0.42
35:BA:1244:G:C2'	35:BA:1245:G:H5'	2.50	0.42
35:BA:1326:U:H3	35:BA:1648:C:HO2'	1.61	0.42
35:BA:1432:C:H2'	35:BA:1433:U:O4'	2.20	0.42
35:BA:1446:C:C2	35:BA:1466:G:N2	2.87	0.42
35:BA:1451:C:C5'	35:BA:1452:A:H5'	2.49	0.42
35:BA:1569:A:C2	35:BA:1570:A:C8	3.08	0.42
35:BA:1677:A:H2'	35:BA:1678:G:H8	1.77	0.42
35:BA:1785:A:OP1	35:BA:1982:C:H5'	2.20	0.42
35:BA:1785:A:C5	35:BA:1787:A:C4	3.08	0.42
35:BA:1826:G:C6	35:BA:1827:C:C5	3.08	0.42
35:BA:1889:A:C6	35:BA:1890:A:C6	3.07	0.42
35:BA:1926:U:C3'	35:BA:1927:A:H5''	2.50	0.42
35:BA:2048:G:C2	35:BA:2621:A:C2	3.08	0.42
35:BA:2131:G:H5''	35:BA:2132:U:C5'	2.49	0.42
35:BA:2572:A:C5	39:BE:144:ARG:NH1	2.87	0.42
35:BA:2703:C:O2	35:BA:2703:C:C2'	2.66	0.42
35:BA:2818:G:H4'	35:BA:2837:G:C4'	2.49	0.42
35:BA:2885:C:H2'	35:BA:2886:G:O4'	2.20	0.42
36:BB:67:G:O2'	36:BB:68:C:H6	2.02	0.42
37:BC:43:VAL:O	37:BC:43:VAL:HG12	2.18	0.42
37:BC:45:ALA:CA	37:BC:171:ILE:HG22	2.49	0.42
38:BD:145:VAL:N	38:BD:155:LEU:O	2.49	0.42
38:BD:165:ILE:HG13	38:BD:175:LEU:CD2	2.38	0.42
38:BD:203:ASN:O	38:BD:205:VAL:HG23	2.20	0.42
39:BE:4:ILE:CD1	39:BE:92:THR:O	2.67	0.42
39:BE:81:ILE:O	39:BE:81:ILE:CG2	2.66	0.42
39:BE:101:ARG:O	39:BE:201:THR:HB	2.19	0.42
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.72	0.42
40:BF:90:PHE:O	40:BF:91:GLY:C	2.62	0.42
41:BG:47:LYS:HG2	41:BG:81:LYS:CG	2.46	0.42
41:BG:141:PHE:O	41:BG:143:GLU:N	2.50	0.42
47:BP:86:LYS:O	47:BP:86:LYS:HG2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:35:VAL:HG13	48:BQ:35:VAL:O	2.20	0.42
48:BQ:59:ARG:HD2	48:BQ:59:ARG:C	2.44	0.42
48:BQ:107:ALA:C	48:BQ:109:VAL:H	2.28	0.42
50:BS:26:LEU:CD2	50:BS:26:LEU:O	2.67	0.42
50:BS:85:VAL:H	50:BS:106:ARG:HB2	1.83	0.42
51:BT:19:LEU:HD11	51:BT:78:LEU:O	2.19	0.42
51:BT:78:LEU:HD22	51:BT:79:HIS:CE1	2.54	0.42
51:BT:129:ARG:HG3	51:BT:129:ARG:O	2.20	0.42
52:BU:12:ARG:C	52:BU:16:LYS:HG3	2.44	0.42
55:BX:26:TYR:HH	55:BX:88:LYS:HB2	1.84	0.42
56:BY:14:LEU:HD23	56:BY:73:ARG:HG3	2.02	0.42
57:BZ:28:MET:HG3	57:BZ:37:VAL:CG1	2.47	0.42
57:BZ:60:GLU:CA	57:BZ:65:GLN:O	2.66	0.42
1:AA:16:A:C2'	1:AA:17:U:C5'	2.95	0.42
1:AA:42:G:H1	1:AA:400:C:H42	1.66	0.42
1:AA:187:C:H4'	20:AT:85:MET:HB2	2.02	0.42
1:AA:193:C:H2'	1:AA:194:C:C6	2.55	0.42
1:AA:328:C:H4'	1:AA:329:A:H5'	2.02	0.42
1:AA:597:G:H2'	1:AA:598:U:C5'	2.44	0.42
1:AA:712:A:H2'	1:AA:713:G:C8	2.55	0.42
1:AA:801:U:H2'	1:AA:802:A:H8	1.85	0.42
1:AA:878:G:C5	1:AA:879:C:C4	3.08	0.42
1:AA:910:C:C2'	1:AA:911:U:H5'	2.49	0.42
1:AA:1195:C:C4	1:AA:1197:G:C8	3.07	0.42
1:AA:1204:A:H2'	1:AA:1205:U:C1'	2.49	0.42
1:AA:1342:C:O3'	9:AI:125:TYR:HB2	2.20	0.42
2:AB:114:ARG:HD2	2:AB:141:GLU:OE2	2.20	0.42
4:AD:143:GLY:O	4:AD:144:ASP:O	2.37	0.42
5:AE:13:ILE:HG22	5:AE:14:ARG:N	2.35	0.42
6:AF:79:LEU:O	6:AF:85:VAL:HG21	2.19	0.42
10:AJ:62:HIS:HB2	14:AN:59:ALA:CB	2.49	0.42
11:AK:114:VAL:CG2	11:AK:115:PRO:HD2	2.49	0.42
11:AK:120:ARG:CZ	11:AK:126:ARG:HD2	2.50	0.42
12:AL:32:PHE:HD1	12:AL:85:ILE:O	2.01	0.42
16:AP:5:ARG:NH2	16:AP:23:ASP:O	2.52	0.42
17:AQ:31:LEU:HA	17:AQ:31:LEU:HD12	1.69	0.42
18:AR:40:LEU:HD23	18:AR:40:LEU:HA	1.60	0.42
24:AY:12:LYS:O	24:AY:82:CYS:HB2	2.18	0.42
24:AY:29:ILE:O	24:AY:30:THR:C	2.61	0.42
24:AY:68:ILE:HB	58:AY:1000:GCP:O3G	2.20	0.42
24:AY:251:ILE:C	24:AY:251:ILE:HD12	2.44	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:20:ARG:NH1	35:BA:2357:U:OP1	2.53	0.42
25:B0:43:THR:HG21	35:BA:2336:A:H61	1.84	0.42
26:B1:76:ARG:HH21	26:B1:95:LEU:HD13	1.81	0.42
30:B5:19:ARG:HD3	35:BA:2047:U:OP1	2.20	0.42
32:B7:29:LYS:HB3	32:B7:29:LYS:HE3	1.75	0.42
32:B7:40:TRP:CD2	35:BA:459:U:C5'	3.00	0.42
35:BA:324:A:C2'	35:BA:325:G:H5'	2.49	0.42
35:BA:327:G:N2	35:BA:336:C:C2	2.87	0.42
35:BA:482:A:H5'	56:BY:47:LYS:HD3	2.02	0.42
35:BA:638:G:C2	35:BA:639:U:C2	3.08	0.42
35:BA:877:U:N3	35:BA:899:A:N6	2.65	0.42
35:BA:1272:A:N7	35:BA:1618:A:H1'	2.35	0.42
35:BA:1306:C:C2	35:BA:1307:A:C8	3.07	0.42
35:BA:1307:A:H1'	35:BA:1622:G:N2	2.35	0.42
35:BA:1389:G:C2	35:BA:1390:U:C2	3.08	0.42
35:BA:1551:C:C5	35:BA:1552:G:N7	2.88	0.42
35:BA:1754:C:C4	35:BA:1755:A:C5	3.08	0.42
35:BA:1770:G:H2'	35:BA:1771:C:H6	1.84	0.42
35:BA:2173:A:C4	35:BA:2173:A:OP2	2.72	0.42
35:BA:2234:G:C4	35:BA:2235:G:C8	3.07	0.42
35:BA:2309:A:O2'	35:BA:2310:A:H5''	2.20	0.42
35:BA:2345:G:N2	35:BA:2382:G:C8	2.88	0.42
35:BA:2369:A:O2'	35:BA:2370:G:H5'	2.19	0.42
35:BA:2443:C:C2'	35:BA:2444:G:C5'	2.94	0.42
35:BA:2532:G:O2'	35:BA:2657:A:N6	2.53	0.42
35:BA:2715:C:C2	35:BA:2716:U:C5	3.07	0.42
35:BA:2745:C:O2'	35:BA:2746:U:H5'	2.20	0.42
35:BA:2801(A):A:H5'	35:BA:2802:G:C8	2.38	0.42
35:BA:2856:C:O2	35:BA:2862:G:N2	2.52	0.42
36:BB:26:A:H5'	36:BB:27:C:P	2.59	0.42
37:BC:22:ILE:CD1	37:BC:189:ILE:HG22	2.50	0.42
38:BD:18:VAL:CG2	38:BD:211:ARG:NH2	2.70	0.42
39:BE:59:VAL:O	39:BE:60:ASN:C	2.62	0.42
39:BE:117:MET:O	39:BE:121:ASN:CA	2.66	0.42
39:BE:117:MET:HG3	39:BE:122:PHE:O	2.20	0.42
39:BE:177:PRO:O	39:BE:178:GLU:O	2.38	0.42
40:BF:59:TYR:N	40:BF:59:TYR:CD1	2.88	0.42
40:BF:104:LYS:O	40:BF:108:LYS:HG3	2.19	0.42
42:BH:148:ILE:O	42:BH:151:ILE:HD13	2.20	0.42
45:BN:75:TYR:HB2	45:BN:82:LEU:CD1	2.43	0.42
45:BN:107:LEU:HD11	45:BN:117:PHE:HD1	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:38:GLU:OE1	48:BQ:127:ILE:HB	2.20	0.42
49:BR:67:LEU:O	49:BR:70:LEU:O	2.37	0.42
50:BS:39:ILE:C	50:BS:40:ILE:CG2	2.92	0.42
50:BS:70:GLY:O	50:BS:71:ARG:C	2.62	0.42
52:BU:6:THR:CG2	52:BU:10:ARG:NH2	2.82	0.42
52:BU:83:LEU:HA	52:BU:88:ILE:HG12	2.01	0.42
54:BW:12:ILE:O	54:BW:12:ILE:HG23	2.18	0.42
54:BW:17:VAL:C	54:BW:19:LEU:H	2.28	0.42
1:AA:43:C:C2	1:AA:44:G:C8	3.08	0.42
1:AA:69:G:O2'	1:AA:152:A:C2	2.71	0.42
1:AA:135:C:H2'	1:AA:136:C:H5'	2.01	0.42
1:AA:412:A:H4'	1:AA:413:G:H8	1.84	0.42
1:AA:720:C:C1'	18:AR:50:ILE:CG2	2.93	0.42
1:AA:753:A:H4'	1:AA:754:C:C2	2.55	0.42
1:AA:958:A:C2	19:AS:54:GLY:O	2.67	0.42
1:AA:961:U:O2'	1:AA:962:C:P	2.77	0.42
1:AA:982:U:H5''	14:AN:6:LEU:HD11	2.00	0.42
1:AA:1015:A:C5	1:AA:1016:A:N7	2.88	0.42
1:AA:1053:G:O2'	1:AA:1054:C:P	2.78	0.42
1:AA:1117:G:O2'	9:AI:104:ARG:CD	2.67	0.42
1:AA:1120:G:C6	1:AA:1154:G:C2	3.08	0.42
1:AA:1151:A:C2	10:AJ:39:PRO:HG3	2.53	0.42
1:AA:1263:C:C2	1:AA:1273:G:N2	2.88	0.42
2:AB:108:ILE:C	2:AB:110:GLN:H	2.28	0.42
2:AB:181:PHE:CD1	8:AH:70:GLN:HB3	2.55	0.42
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.49	0.42
4:AD:9:CYS:CA	4:AD:12:CYS:HB2	2.49	0.42
4:AD:11:LEU:HD13	4:AD:66:ARG:NE	2.34	0.42
4:AD:13:ARG:O	4:AD:14:ARG:C	2.63	0.42
4:AD:58:LEU:HD11	4:AD:62:GLN:HG3	2.01	0.42
6:AF:80:ARG:HA	6:AF:85:VAL:CG1	2.47	0.42
7:AG:107:ALA:HB2	7:AG:134:ALA:HB2	2.01	0.42
12:AL:7:ILE:O	12:AL:10:LEU:N	2.52	0.42
12:AL:32:PHE:HB3	12:AL:84:LEU:HD22	2.02	0.42
12:AL:53:ARG:NH1	12:AL:93:LEU:HD21	2.34	0.42
13:AM:12:ASN:C	13:AM:13:LYS:HG3	2.45	0.42
13:AM:58:GLU:O	13:AM:59:TYR:C	2.63	0.42
13:AM:70:LEU:C	13:AM:70:LEU:HD23	2.45	0.42
15:AO:53:HIS:HE1	15:AO:57:LEU:HD21	1.85	0.42
17:AQ:4:LYS:O	17:AQ:60:ILE:HA	2.20	0.42
17:AQ:11:VAL:HG23	17:AQ:20:THR:HB	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:100:ILE:N	20:AT:100:ILE:CD1	2.83	0.42
24:AY:114:ASP:OD1	24:AY:143:LYS:HD2	2.20	0.42
24:AY:170:THR:C	24:AY:182:VAL:CG1	2.93	0.42
24:AY:231:LEU:O	24:AY:234:VAL:HG23	2.20	0.42
24:AY:442:GLY:O	24:AY:443:VAL:CG2	2.62	0.42
24:AY:445:GLN:HA	24:AY:448:VAL:CB	2.50	0.42
26:B1:29:GLY:C	26:B1:31:GLY:H	2.28	0.42
26:B1:50:ARG:HA	26:B1:59:THR:HA	2.01	0.42
27:B2:65:ASN:ND2	35:BA:112:U:H5'	2.35	0.42
29:B4:9:LEU:HD22	29:B4:26:SER:C	2.45	0.42
30:B5:39:MET:HG2	54:BW:34:ASN:OD1	2.18	0.42
30:B5:44:THR:HG21	49:BR:101:ALA:HB2	2.02	0.42
33:B8:12:LYS:HB3	47:BP:68:GLN:NE2	2.35	0.42
35:BA:24:G:H2'	35:BA:25:U:C6	2.54	0.42
35:BA:108:U:H6	35:BA:108:U:O5'	2.03	0.42
35:BA:116:C:H2'	35:BA:117:G:C5'	2.49	0.42
35:BA:129:C:H2'	35:BA:130:C:H6	1.85	0.42
35:BA:142:A:H1'	35:BA:1408:C:H1'	2.02	0.42
35:BA:233:A:O2'	35:BA:234:C:H5'	2.20	0.42
35:BA:479:A:C4	35:BA:481:G:O4'	2.72	0.42
35:BA:481:G:C4	35:BA:507:A:C2	3.07	0.42
35:BA:612:C:O2'	35:BA:613:G:H5''	2.19	0.42
35:BA:644:A:C2	35:BA:2369:A:H1'	2.55	0.42
35:BA:920:G:O2'	35:BA:921:G:H5'	2.19	0.42
35:BA:1086:A:H5''	35:BA:1086:A:N3	2.34	0.42
35:BA:1252:G:O2'	35:BA:1253:A:O4'	2.35	0.42
35:BA:1368:G:C2	35:BA:1369:G:C5	3.07	0.42
35:BA:1439:A:H3'	35:BA:1440:G:C8	2.52	0.42
35:BA:1650:G:C6	35:BA:1651:G:N7	2.87	0.42
35:BA:1746:G:H2'	35:BA:1746:G:N3	2.35	0.42
35:BA:1812:A:H2'	35:BA:1813:G:O4'	2.19	0.42
35:BA:1834:U:O3'	35:BA:1835:G:H8	2.03	0.42
35:BA:1861:G:O2'	35:BA:1862:G:H5'	2.19	0.42
35:BA:2039:C:O2'	35:BA:2040:C:H5'	2.20	0.42
35:BA:2044:C:C2	35:BA:2625:G:N2	2.88	0.42
35:BA:2077:A:N3	35:BA:2078:C:C6	2.88	0.42
35:BA:2279:G:C6	35:BA:2280:G:N7	2.87	0.42
35:BA:2306:C:H5''	35:BA:2307:G:O4'	2.20	0.42
35:BA:2521:C:N3	35:BA:2545:G:C2	2.88	0.42
35:BA:2569:G:C2	35:BA:2570:G:N7	2.87	0.42
35:BA:2594:C:C2	35:BA:2595:G:N7	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2649:U:H2'	35:BA:2650:U:C6	2.55	0.42
35:BA:2742:C:C4	35:BA:2763:G:N2	2.88	0.42
37:BC:14:VAL:CG2	37:BC:32:LEU:HD11	2.50	0.42
38:BD:126:GLN:O	38:BD:193:VAL:CG2	2.68	0.42
38:BD:173:VAL:HG23	38:BD:174:ILE:N	2.34	0.42
39:BE:44:TYR:CD2	39:BE:45:THR:O	2.70	0.42
41:BG:39:ILE:HG21	41:BG:94:LEU:HD11	2.01	0.42
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	2.02	0.42
42:BH:38:SER:OG	42:BH:64:LEU:HD11	2.18	0.42
43:BJ:121:UNK:O	43:BJ:122:UNK:C	2.68	0.42
45:BN:12:ARG:HB3	45:BN:50:ASP:CG	2.44	0.42
46:BO:85:VAL:HB	46:BO:87:ILE:HD11	2.02	0.42
49:BR:28:LEU:C	49:BR:30:THR:N	2.76	0.42
51:BT:5:ALA:HA	51:BT:8:LYS:HE2	2.01	0.42
51:BT:29:ARG:HA	51:BT:29:ARG:HD3	1.35	0.42
51:BT:32:TYR:CD1	51:BT:81:PRO:HB2	2.54	0.42
51:BT:62:THR:HA	51:BT:74:ARG:O	2.20	0.42
52:BU:12:ARG:O	52:BU:16:LYS:HG3	2.19	0.42
52:BU:36:ARG:O	52:BU:39:LEU:HB2	2.19	0.42
52:BU:53:ARG:HA	52:BU:56:ASP:OD1	2.18	0.42
52:BU:76:TYR:O	52:BU:77:SER:C	2.63	0.42
52:BU:86:ALA:C	52:BU:88:ILE:HG23	2.44	0.42
53:BV:47:VAL:HB	53:BV:51:VAL:O	2.19	0.42
55:BX:81:VAL:O	55:BX:81:VAL:HG23	2.19	0.42
57:BZ:41:LEU:HD11	57:BZ:82:ARG:HH21	1.85	0.42
1:AA:645:C:O2'	1:AA:646:U:H5'	2.20	0.42
1:AA:787:A:C4	1:AA:788:U:C6	3.08	0.42
1:AA:797:C:O2	1:AA:797:C:C2'	2.68	0.42
1:AA:906:G:C8	1:AA:906:G:C3'	3.03	0.42
1:AA:973:G:C2'	1:AA:974:A:OP1	2.67	0.42
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.20	0.42
1:AA:1180:A:OP1	9:AI:103:THR:CG2	2.67	0.42
2:AB:153:ARG:HG3	2:AB:154:LEU:HD23	2.02	0.42
2:AB:164:VAL:HG12	2:AB:165:VAL:C	2.45	0.42
3:AC:60:ALA:HB3	3:AC:63:ASN:OD1	2.19	0.42
3:AC:113:ALA:O	3:AC:117:ALA:HB2	2.19	0.42
3:AC:187:ALA:N	3:AC:198:VAL:O	2.46	0.42
4:AD:173:TRP:CD2	4:AD:189:PRO:HB3	2.55	0.42
6:AF:12:PRO:HG3	6:AF:55:ASP:OD1	2.20	0.42
7:AG:42:ILE:O	7:AG:43:PHE:C	2.62	0.42
8:AH:14:ARG:NH1	8:AH:14:ARG:HB2	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:33:PHE:C	9:AI:35:GLU:N	2.78	0.42
11:AK:62:GLN:O	11:AK:65:ALA:HB3	2.20	0.42
12:AL:36:VAL:HB	12:AL:81:SER:C	2.44	0.42
13:AM:91:ARG:HD3	13:AM:96:LEU:HB2	2.00	0.42
15:AO:43:LEU:HD22	15:AO:43:LEU:HA	1.70	0.42
24:AY:17:ALA:HB3	24:AY:103:LEU:HG	2.01	0.42
24:AY:28:THR:HB	58:AY:1000:GCP:H8	2.01	0.42
24:AY:72:THR:HG22	24:AY:89:THR:HA	2.00	0.42
24:AY:131:ARG:HH12	24:AY:162:LEU:CD1	2.33	0.42
24:AY:131:ARG:HH11	24:AY:131:ARG:CG	2.33	0.42
24:AY:392:ASN:ND2	24:AY:392:ASN:C	2.77	0.42
25:B0:48:GLY:HA3	25:B0:80:HIS:CA	2.48	0.42
26:B1:35:THR:OG1	35:BA:2079:U:O3'	2.33	0.42
28:B3:8:LEU:HD11	28:B3:29:ARG:O	2.19	0.42
30:B5:40:LYS:CD	30:B5:44:THR:O	2.68	0.42
30:B5:46:CYS:HB2	30:B5:47:PRO:HD2	2.01	0.42
35:BA:9:U:O2	35:BA:10:G:C1'	2.67	0.42
35:BA:115:C:O2'	35:BA:116:C:H5'	2.20	0.42
35:BA:142:A:H1'	35:BA:1408:C:O4'	2.20	0.42
35:BA:180:G:O2'	35:BA:181:A:N7	2.53	0.42
35:BA:247:G:OP2	35:BA:249:C:C5	2.72	0.42
35:BA:327:G:C2	35:BA:336:C:C2	3.07	0.42
35:BA:407:G:H8	35:BA:407:G:O5'	2.03	0.42
35:BA:472:A:C2'	35:BA:473:G:H5'	2.46	0.42
35:BA:483:A:H1'	56:BY:60:PHE:HE1	1.84	0.42
35:BA:491:G:O2'	35:BA:492:A:H5'	2.19	0.42
35:BA:528:A:C8	35:BA:528:A:C3'	3.03	0.42
35:BA:588:U:C2	35:BA:589:C:C5	3.08	0.42
35:BA:616:G:C5'	40:BF:103:LYS:HZ1	2.21	0.42
35:BA:646:A:N3	35:BA:646:A:O4'	2.53	0.42
35:BA:671:C:C2	35:BA:672:C:C5	3.08	0.42
35:BA:1051:G:OP1	35:BA:2752:C:H1'	2.19	0.42
35:BA:1069:A:N6	35:BA:1073:A:C6	2.88	0.42
35:BA:1130:U:N3	35:BA:2025:C:H5''	2.35	0.42
35:BA:1306:C:N4	35:BA:1606:G:H2'	2.35	0.42
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.19	0.42
35:BA:1480:G:C6	35:BA:1481:U:C4	3.08	0.42
35:BA:1693:U:O4	35:BA:1977:A:C5	2.73	0.42
35:BA:1805:U:N3	35:BA:1806:C:C5	2.87	0.42
35:BA:1843:C:H2'	35:BA:1844:C:C5	2.53	0.42
35:BA:1893:C:H2'	35:BA:1894:C:O4'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1910:G:C2	35:BA:1911:U:C2	3.08	0.42
35:BA:2312:U:H5'	41:BG:73:ALA:HB2	2.01	0.42
35:BA:2375:G:N3	35:BA:2379:G:N1	2.68	0.42
35:BA:2631:G:N2	39:BE:61:ARG:NH2	2.67	0.42
35:BA:2637:U:O2'	35:BA:2638:G:H5'	2.20	0.42
35:BA:2703:C:C2'	35:BA:2704:C:H5'	2.48	0.42
35:BA:2740:A:C6	35:BA:2764:A:C8	3.07	0.42
35:BA:2820:A:C8	39:BE:109:LYS:HE2	2.55	0.42
36:BB:7:G:H3'	36:BB:8:U:C5'	2.46	0.42
36:BB:77:U:O2	36:BB:77:U:H2'	2.20	0.42
38:BD:53:PHE:HB3	38:BD:218:ARG:HB2	2.02	0.42
38:BD:124:PRO:C	38:BD:129:ASN:ND2	2.66	0.42
39:BE:11:MET:HB3	39:BE:24:THR:HA	2.02	0.42
39:BE:26:ILE:O	39:BE:182:LEU:N	2.51	0.42
39:BE:81:ILE:O	39:BE:82:ARG:C	2.62	0.42
39:BE:134:ILE:O	39:BE:134:ILE:HG13	2.19	0.42
40:BF:34:TRP:CG	47:BP:11:GLY:O	2.73	0.42
41:BG:85:GLY:O	41:BG:86:MET:CB	2.65	0.42
42:BH:94:TYR:CB	42:BH:107:VAL:HB	2.45	0.42
42:BH:94:TYR:CE1	42:BH:108:GLY:HA3	2.52	0.42
42:BH:125:VAL:HG13	42:BH:131:VAL:HG11	2.02	0.42
47:BP:55:ARG:HG2	47:BP:57:THR:N	2.32	0.42
50:BS:73:LEU:C	50:BS:73:LEU:CD2	2.93	0.42
52:BU:11:ARG:O	52:BU:12:ARG:C	2.63	0.42
53:BV:73:SER:HA	53:BV:83:ARG:O	2.20	0.42
55:BX:47:PHE:O	55:BX:49:VAL:N	2.47	0.42
1:AA:235:C:C5'	17:AQ:70:ARG:HG2	2.49	0.42
1:AA:277:C:P	17:AQ:68:ARG:HH12	2.42	0.42
1:AA:360:A:P	24:AY:411:GLN:NE2	2.92	0.42
1:AA:458:C:H2'	1:AA:460:G:H5'	2.00	0.42
1:AA:629:G:H2'	1:AA:630:G:C8	2.55	0.42
1:AA:817:C:C5	1:AA:819:A:C1'	3.01	0.42
1:AA:826:C:H6	1:AA:826:C:O5'	2.02	0.42
1:AA:939:G:C2	1:AA:940:C:C2	3.07	0.42
1:AA:1018:C:H2'	1:AA:1019:C:H6	1.85	0.42
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.54	0.42
1:AA:1126:U:OP1	1:AA:1281:U:O2	2.38	0.42
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	2.01	0.42
2:AB:137:ARG:O	2:AB:140:HIS:CB	2.68	0.42
2:AB:185:ILE:HD12	2:AB:185:ILE:H	1.78	0.42
3:AC:29:TYR:C	3:AC:29:TYR:CD1	2.97	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:67:THR:HG23	3:AC:102:ASN:CB	2.37	0.42
3:AC:83:ARG:C	3:AC:85:ARG:N	2.77	0.42
4:AD:170:VAL:HB	4:AD:174:LEU:O	2.20	0.42
4:AD:188:LEU:HD23	4:AD:189:PRO:O	2.19	0.42
5:AE:33:VAL:HG22	5:AE:43:LEU:CD1	2.31	0.42
6:AF:9:VAL:HG12	6:AF:10:LEU:N	2.34	0.42
6:AF:10:LEU:N	6:AF:59:TYR:O	2.53	0.42
6:AF:97:PHE:O	18:AR:30:ASP:OD1	2.37	0.42
6:AF:98:LEU:HA	18:AR:29:PHE:O	2.20	0.42
8:AH:31:PHE:HE1	8:AH:118:VAL:HG21	1.85	0.42
8:AH:50:ARG:O	8:AH:51:VAL:CG1	2.68	0.42
12:AL:6:THR:O	12:AL:7:ILE:C	2.63	0.42
13:AM:3:ARG:HA	13:AM:8:GLU:O	2.20	0.42
14:AN:45:ARG:O	14:AN:49:HIS:HD2	2.02	0.42
15:AO:67:LEU:HD23	15:AO:67:LEU:HA	1.67	0.42
16:AP:20:VAL:CG2	16:AP:21:VAL:N	2.83	0.42
19:AS:36:ARG:O	19:AS:38:SER:N	2.52	0.42
20:AT:13:LEU:H	20:AT:13:LEU:CD2	2.29	0.42
22:AV:29:G:C2	22:AV:42:G:C2	3.07	0.42
22:AV:52:G:C2'	22:AV:53:G:C8	2.94	0.42
24:AY:89:THR:CB	24:AY:90:PRO:CD	2.94	0.42
24:AY:169:ILE:O	24:AY:170:THR:HG22	2.19	0.42
24:AY:173:ILE:CG2	24:AY:180:LYS:HB2	2.46	0.42
24:AY:323:GLY:O	24:AY:324:LYS:O	2.37	0.42
24:AY:405:ASP:HA	24:AY:406:PRO:HD3	1.73	0.42
24:AY:445:GLN:HA	24:AY:448:VAL:HG21	1.98	0.42
24:AY:527:ARG:O	24:AY:528:GLU:HG2	2.20	0.42
32:B7:10:ARG:HD3	35:BA:770:G:OP1	2.19	0.42
35:BA:16:G:H2'	35:BA:17:G:C8	2.55	0.42
35:BA:57:C:HO2'	35:BA:58:G:H5'	1.82	0.42
35:BA:326:G:C4	35:BA:327:G:C8	3.08	0.42
35:BA:526:A:C2	35:BA:2625:G:N3	2.88	0.42
35:BA:586:A:C2	35:BA:1254:A:C2	3.07	0.42
35:BA:673:C:P	40:BF:54:ARG:HH11	2.42	0.42
35:BA:752:A:N7	35:BA:1781:C:C2	2.88	0.42
35:BA:952:G:O2'	35:BA:2267:A:H1'	2.19	0.42
35:BA:1105:U:O5'	35:BA:1105:U:C6	2.72	0.42
35:BA:1133:U:H5	35:BA:2026:C:O2'	2.02	0.42
35:BA:1428:C:C2'	35:BA:1569:A:OP1	2.67	0.42
35:BA:1462:C:C4	35:BA:1463:C:C4	3.08	0.42
35:BA:1464:C:HO2'	35:BA:1528:A:H8	1.62	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1651:G:C2	35:BA:1652:A:C4	3.08	0.42
35:BA:1661:G:C4	35:BA:1662:C:C5	3.08	0.42
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.59	0.42
35:BA:2034:U:H2'	35:BA:2035:G:O4'	2.20	0.42
35:BA:2056:G:N2	35:BA:2057:A:C4	2.87	0.42
35:BA:2126:A:H4'	35:BA:2127:G:O5'	2.20	0.42
35:BA:2312:U:O2'	41:BG:40:ASN:ND2	2.53	0.42
35:BA:2358:G:C4	35:BA:2359:C:C5	3.08	0.42
35:BA:2409:G:C6	35:BA:2410:G:C5	3.08	0.42
35:BA:2460:U:O2	35:BA:2493:U:O2	2.38	0.42
35:BA:2563:U:C2	35:BA:2566:A:N7	2.88	0.42
35:BA:2575:C:C5'	35:BA:2576:G:OP2	2.61	0.42
35:BA:2654:A:N1	35:BA:2665:A:H5''	2.35	0.42
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.54	0.42
35:BA:2749:A:C5	35:BA:2750:A:N7	2.87	0.42
35:BA:2808:U:H2'	35:BA:2809:A:H5'	2.02	0.42
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.34	0.42
36:BB:63:G:C6	36:BB:64:C:N4	2.87	0.42
36:BB:87:G:N1	36:BB:91:C:N4	2.68	0.42
36:BB:107:G:C6	36:BB:108:U:C5	3.07	0.42
37:BC:50:ASP:OD1	37:BC:51:PRO:HD2	2.19	0.42
38:BD:121:PRO:O	38:BD:131:LEU:HD21	2.20	0.42
38:BD:221:VAL:O	38:BD:221:VAL:CG2	2.66	0.42
38:BD:242:ARG:NH1	38:BD:242:ARG:CG	2.79	0.42
38:BD:263:ARG:NH1	38:BD:263:ARG:CB	2.83	0.42
39:BE:48:GLN:NE2	39:BE:64:LYS:HZ1	2.13	0.42
39:BE:60:ASN:CG	39:BE:61:ARG:N	2.77	0.42
39:BE:86:PRO:HB2	39:BE:87:GLU:H	1.63	0.42
39:BE:102:VAL:HG23	39:BE:104:VAL:CG2	2.49	0.42
41:BG:80:PHE:CD1	41:BG:81:LYS:HG2	2.54	0.42
42:BH:155:SER:C	42:BH:157:TYR:N	2.77	0.42
45:BN:12:ARG:HG2	45:BN:50:ASP:OD2	2.20	0.42
45:BN:96:GLU:HG2	45:BN:100:GLU:OE2	2.20	0.42
45:BN:117:PHE:O	45:BN:118:LYS:C	2.62	0.42
49:BR:59:ASP:OD1	49:BR:59:ASP:C	2.63	0.42
50:BS:27:SER:C	50:BS:28:VAL:HG23	2.43	0.42
52:BU:87:GLY:O	53:BV:49:THR:HA	2.20	0.42
57:BZ:5:LEU:HB3	57:BZ:59:LEU:CD2	2.49	0.42
57:BZ:28:MET:HE3	57:BZ:35:ARG:O	2.19	0.42
1:AA:46:G:N1	1:AA:366:C:O2	2.53	0.42
1:AA:60:A:H2	1:AA:107:G:N3	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:142:G:H1	1:AA:221:C:H42	1.67	0.42
1:AA:173:U:H4'	1:AA:174:C:OP2	2.20	0.42
1:AA:260:G:H8	1:AA:260:G:O5'	2.03	0.42
1:AA:293:G:C6	1:AA:305:G:C2	3.08	0.42
1:AA:321:A:C2	1:AA:322:C:C4	3.07	0.42
1:AA:346:G:O2'	1:AA:347:G:P	2.77	0.42
1:AA:552:U:H2'	1:AA:553:A:C8	2.55	0.42
1:AA:586:C:P	17:AQ:34:LYS:NZ	2.93	0.42
1:AA:620:C:C2	4:AD:135:LEU:HG	2.54	0.42
1:AA:762:C:C2	1:AA:763:G:C8	3.08	0.42
1:AA:928:G:C6	1:AA:929:G:O6	2.72	0.42
1:AA:944:G:N1	1:AA:1340:A:N6	2.68	0.42
1:AA:1050:G:C2	1:AA:1209:C:C2	3.08	0.42
1:AA:1100:C:C2	1:AA:1102:A:C5'	3.02	0.42
1:AA:1108:G:OP2	3:AC:174:PRO:HA	2.20	0.42
1:AA:1219:U:H6	1:AA:1219:U:O5'	2.03	0.42
1:AA:1396:A:N3	5:AE:19:MET:HE3	2.34	0.42
1:AA:1413:A:C2	1:AA:1414:U:C6	3.08	0.42
2:AB:129:GLU:O	2:AB:130:ARG:HB2	2.20	0.42
2:AB:155:LEU:HD21	2:AB:159:PRO:CG	2.31	0.42
2:AB:189:ASP:O	2:AB:190:THR:C	2.63	0.42
3:AC:90:GLU:HA	3:AC:93:LYS:CB	2.50	0.42
4:AD:108:LEU:HD12	4:AD:108:LEU:HA	1.76	0.42
6:AF:18:GLN:O	6:AF:21:LEU:N	2.53	0.42
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.19	0.42
11:AK:63:LEU:CA	11:AK:66:LEU:HG	2.50	0.42
12:AL:33:ARG:HD2	12:AL:34:ARG:H	1.85	0.42
17:AQ:34:LYS:HG2	17:AQ:35:VAL:N	2.33	0.42
18:AR:83:GLU:CA	18:AR:84:LYS:HZ3	2.33	0.42
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.19	0.42
19:AS:21:GLU:C	19:AS:23:ASN:N	2.76	0.42
20:AT:71:THR:CG2	20:AT:72:LEU:N	2.83	0.42
20:AT:97:ALA:HA	20:AT:98:PRO:HD2	1.80	0.42
22:AV:23:C:C4	22:AV:24:U:C5	3.08	0.42
24:AY:68:ILE:HB	24:AY:92:HIS:HE1	1.85	0.42
24:AY:109:CYS:O	24:AY:137:ILE:CG2	2.68	0.42
24:AY:173:ILE:CD1	24:AY:190:THR:CG2	2.98	0.42
24:AY:295:LYS:HD3	24:AY:381:GLN:HB2	2.01	0.42
24:AY:297:THR:OG1	24:AY:383:GLU:CD	2.63	0.42
24:AY:418:GLN:O	24:AY:421:GLU:HB3	2.20	0.42
26:B1:50:ARG:HG3	35:BA:2200:C:OP1	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:65:SER:O	35:BA:372:G:C8	2.73	0.42
29:B4:25:TYR:C	29:B4:26:SER:OG	2.59	0.42
31:B6:5:VAL:HG11	35:BA:2283:C:H5'	2.01	0.42
34:B9:19:ARG:HB2	35:BA:2756:U:H3'	2.00	0.42
35:BA:44:G:N2	35:BA:435:C:H41	2.18	0.42
35:BA:130:C:H4'	35:BA:1349:A:C1'	2.50	0.42
35:BA:143:G:H5''	35:BA:1598:C:H1'	2.02	0.42
35:BA:150:C:H2'	35:BA:151:C:H6	1.84	0.42
35:BA:231:C:O2'	35:BA:232:G:H5'	2.18	0.42
35:BA:240:G:C6	35:BA:241:A:C6	3.07	0.42
35:BA:245:G:O2'	47:BP:71:VAL:HG23	2.20	0.42
35:BA:342:G:H2'	35:BA:343:C:C6	2.55	0.42
35:BA:496:G:C1'	54:BW:61:ASN:HD21	2.33	0.42
35:BA:685:A:N1	35:BA:787:U:H1'	2.34	0.42
35:BA:695:G:N1	35:BA:696:G:C5	2.87	0.42
35:BA:820:A:N3	35:BA:943:U:O2'	2.37	0.42
35:BA:833:U:O2	47:BP:55:ARG:NH2	2.50	0.42
35:BA:848:G:O6	35:BA:928:G:H2'	2.19	0.42
35:BA:908:C:H2'	35:BA:909:A:C8	2.55	0.42
35:BA:910:A:C6	48:BQ:13:GLN:HG3	2.55	0.42
35:BA:958:U:OP1	48:BQ:41:TRP:HZ3	2.02	0.42
35:BA:1044:G:N2	35:BA:1111:A:C2	2.88	0.42
35:BA:1141:U:H6	45:BN:63:THR:HG22	1.83	0.42
35:BA:1266:G:H22	35:BA:2012:G:H2'	1.83	0.42
35:BA:1360:A:N7	35:BA:1372:U:C4	2.88	0.42
35:BA:1463:C:O2'	35:BA:1464:C:H5'	2.20	0.42
35:BA:1557:C:C5	35:BA:1558:A:C5	3.08	0.42
35:BA:1667:G:C5'	46:BO:5:GLN:O	2.66	0.42
35:BA:1888:G:H5'	35:BA:1888:G:N3	2.35	0.42
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.54	0.42
35:BA:2153:G:C2	35:BA:2154:G:C1'	3.03	0.42
35:BA:2189:U:C3'	35:BA:2189:U:C6	3.03	0.42
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.35	0.42
35:BA:2324:C:O2	35:BA:2385:C:C5	2.63	0.42
35:BA:2429:G:N7	47:BP:56:SER:HB2	2.35	0.42
35:BA:2563:U:C1'	35:BA:2566:A:N6	2.83	0.42
36:BB:85:G:N1	36:BB:93:G:C6	2.88	0.42
37:BC:148:ASN:O	37:BC:150:GLY:N	2.53	0.42
38:BD:218:ARG:O	38:BD:219:PRO:O	2.38	0.42
38:BD:250:TRP:HB2	38:BD:252:TRP:HE1	1.84	0.42
39:BE:48:GLN:HG3	39:BE:78:LEU:HD13	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:60:ASN:OD1	39:BE:61:ARG:HB3	2.20	0.42
39:BE:178:GLU:C	39:BE:180:ASN:H	2.27	0.42
41:BG:128:ARG:O	41:BG:129:GLY:C	2.62	0.42
41:BG:178:PHE:CB	41:BG:180:PHE:HE1	2.33	0.42
45:BN:55:VAL:HA	45:BN:123:TYR:O	2.19	0.42
45:BN:87:LEU:HD13	45:BN:87:LEU:C	2.45	0.42
45:BN:96:GLU:O	45:BN:97:ARG:C	2.63	0.42
45:BN:100:GLU:O	45:BN:117:PHE:CE1	2.73	0.42
45:BN:121:LYS:C	45:BN:122:VAL:HG23	2.45	0.42
46:BO:23:ARG:CG	46:BO:24:VAL:N	2.67	0.42
47:BP:25:SER:O	47:BP:30:THR:HA	2.19	0.42
47:BP:26:GLY:O	47:BP:27:HIS:CG	2.72	0.42
48:BQ:141:GLN:O	57:BZ:71:VAL:O	2.36	0.42
51:BT:132:LYS:C	51:BT:134:GLU:N	2.66	0.42
55:BX:50:LYS:HB3	55:BX:84:ALA:HB2	2.01	0.42
56:BY:13:VAL:HG13	56:BY:14:LEU:H	1.84	0.42
56:BY:27:VAL:O	56:BY:28:LYS:HG3	2.20	0.42
56:BY:30:VAL:HG12	56:BY:32:PRO:HB3	2.02	0.42
57:BZ:31:ARG:HG3	57:BZ:32:HIS:CE1	2.54	0.42
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG12	2.45	0.42
1:AA:518:C:C4	1:AA:530:G:N7	2.88	0.41
1:AA:587:G:N2	1:AA:755:G:C5	2.88	0.41
1:AA:1001(A):G:H8	1:AA:1002:G:N9	2.16	0.41
1:AA:1106:G:N3	1:AA:1107:C:C6	2.88	0.41
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.54	0.41
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.20	0.41
1:AA:1484:C:C1'	35:BA:1960:A:O2'	2.68	0.41
2:AB:8:LYS:NZ	2:AB:217:ARG:NH2	2.68	0.41
2:AB:175:ARG:O	2:AB:176:GLU:C	2.62	0.41
2:AB:222:ILE:O	2:AB:223:ILE:C	2.63	0.41
3:AC:95:THR:HG22	3:AC:97:LYS:HG3	2.02	0.41
3:AC:132:ARG:HH22	4:AD:47:ARG:NH2	2.17	0.41
4:AD:118:ARG:NH1	4:AD:118:ARG:HG3	2.34	0.41
4:AD:148:VAL:HB	4:AD:181:MET:HB3	2.01	0.41
4:AD:150:GLU:CD	4:AD:151:LYS:H	2.28	0.41
7:AG:137:LYS:O	7:AG:141:VAL:CG2	2.68	0.41
12:AL:45:PRO:HB2	12:AL:49:ASN:O	2.20	0.41
13:AM:87:TYR:O	13:AM:90:LEU:HG	2.20	0.41
14:AN:26:ARG:NH1	14:AN:47:LEU:HD23	2.35	0.41
15:AO:4:THR:C	15:AO:7:GLU:H	2.28	0.41
17:AQ:25:ARG:NH1	17:AQ:27:PHE:CE2	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:27:PHE:CE1	17:AQ:36:ILE:HD12	2.54	0.41
18:AR:39:VAL:O	18:AR:40:LEU:C	2.60	0.41
18:AR:44:LEU:HD21	18:AR:79:LEU:HD22	2.02	0.41
19:AS:15:LEU:HB3	19:AS:16:LEU:HD12	2.01	0.41
19:AS:18:LYS:HD2	19:AS:18:LYS:HA	1.71	0.41
24:AY:208:LYS:HB2	24:AY:209:GLY:H	1.62	0.41
24:AY:210:LEU:HB2	24:AY:228:ARG:NH2	2.35	0.41
24:AY:284:THR:CB	24:AY:287:ARG:O	2.69	0.41
25:B0:51:VAL:CG2	25:B0:81:VAL:CG2	2.94	0.41
27:B2:11:GLU:C	27:B2:13:ALA:H	2.27	0.41
32:B7:11:LYS:HE3	35:BA:686:G:C2	2.54	0.41
34:B9:10:ILE:HD12	34:B9:10:ILE:N	2.26	0.41
34:B9:10:ILE:HG21	35:BA:2477:C:C5	2.54	0.41
35:BA:139:G:H1'	55:BX:41:ASN:OD1	2.20	0.41
35:BA:354:G:H2'	35:BA:355:G:H8	1.85	0.41
35:BA:388:G:C6	35:BA:390:A:C2	3.08	0.41
35:BA:482:A:N7	35:BA:506:G:C2	2.88	0.41
35:BA:664:C:OP1	47:BP:21:ARG:NH2	2.52	0.41
35:BA:669:G:C2	35:BA:801:G:C6	3.08	0.41
35:BA:671:C:N4	35:BA:809:G:H1	2.17	0.41
35:BA:727:A:C5	35:BA:728:G:C6	3.08	0.41
35:BA:748:G:C5'	35:BA:2612:C:N4	2.82	0.41
35:BA:852:G:C6	35:BA:926:A:C2	3.08	0.41
35:BA:919:G:H4'	36:BB:81:G:C4'	2.50	0.41
35:BA:1053:C:N4	35:BA:1108:U:H3	2.18	0.41
35:BA:1265:A:OP2	35:BA:2615:U:OP1	2.38	0.41
35:BA:1482:G:N3	35:BA:1482:G:H2'	2.35	0.41
35:BA:1791:A:O3'	38:BD:206:LEU:CD1	2.64	0.41
35:BA:1803:A:H61	35:BA:1822:G:HO2'	1.68	0.41
35:BA:1911:U:H2'	35:BA:1918:A:H2	1.65	0.41
35:BA:1934:C:H2'	35:BA:1935:G:C5'	2.50	0.41
35:BA:2007:C:C5'	35:BA:2824:C:O2'	2.68	0.41
35:BA:2037:G:H2'	35:BA:2038:G:H8	1.80	0.41
35:BA:2154:G:H2'	35:BA:2155:G:O5'	2.20	0.41
35:BA:2319:G:N3	35:BA:2320:A:C6	2.88	0.41
36:BB:9:G:C6	36:BB:10:C:C4	3.08	0.41
36:BB:58:A:H2'	36:BB:59:A:C8	2.54	0.41
37:BC:59:ARG:HD2	37:BC:164:ARG:HE	1.83	0.41
37:BC:214:VAL:HG23	37:BC:224:ILE:HG21	2.01	0.41
37:BC:222:VAL:O	37:BC:223:ARG:C	2.63	0.41
38:BD:14:ARG:CG	38:BD:14:ARG:NH1	2.80	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:21:PHE:HE1	38:BD:91:ARG:HH22	1.68	0.41
38:BD:79:VAL:HG21	38:BD:112:GLN:O	2.18	0.41
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.81	0.41
38:BD:273:ARG:NH1	38:BD:273:ARG:CG	2.79	0.41
39:BE:4:ILE:HG23	39:BE:4:ILE:O	2.19	0.41
39:BE:173:VAL:HB	39:BE:183:LEU:HB3	2.02	0.41
40:BF:13:SER:HA	40:BF:14:PRO:HD3	1.94	0.41
40:BF:24:LEU:O	40:BF:115:ALA:CB	2.58	0.41
40:BF:115:ALA:O	40:BF:118:ALA:HB3	2.20	0.41
41:BG:39:ILE:CG1	41:BG:156:ASP:O	2.67	0.41
42:BH:103:LEU:HD12	42:BH:103:LEU:C	2.45	0.41
45:BN:35:ARG:O	45:BN:35:ARG:HG3	2.20	0.41
45:BN:128:HIS:HA	45:BN:129:PRO:HD2	1.85	0.41
46:BO:21:CYS:SG	46:BO:23:ARG:O	2.78	0.41
47:BP:143:GLY:C	47:BP:145:PRO:HD3	2.45	0.41
48:BQ:38:GLU:H	48:BQ:127:ILE:HD12	1.84	0.41
48:BQ:99:PRO:C	48:BQ:101:ARG:N	2.76	0.41
49:BR:37:THR:CG2	49:BR:40:LYS:HE2	2.50	0.41
53:BV:75:PHE:CE1	53:BV:77:ALA:HA	2.52	0.41
54:BW:8:ARG:HD3	54:BW:102:HIS:CD2	2.55	0.41
54:BW:60:ASN:O	54:BW:60:ASN:OD1	2.38	0.41
57:BZ:15:PRO:O	57:BZ:18:LEU:HD23	2.20	0.41
57:BZ:15:PRO:CA	57:BZ:18:LEU:HD23	2.50	0.41
1:AA:141:A:O4'	1:AA:182:U:H1'	2.20	0.41
1:AA:189(A):C:O2'	1:AA:189(B):C:H5'	2.20	0.41
1:AA:193:C:C2	1:AA:194:C:C5	3.08	0.41
1:AA:295:C:C2'	1:AA:296:U:C6	2.90	0.41
1:AA:353:A:H2'	1:AA:354:G:OP2	2.20	0.41
1:AA:382:A:O2'	1:AA:383:A:H5'	2.20	0.41
1:AA:520:A:OP1	12:AL:52:LEU:HB2	2.20	0.41
1:AA:689:C:P	11:AK:46:GLY:HA3	2.61	0.41
1:AA:782:A:N7	1:AA:783:C:C2	2.88	0.41
1:AA:896:C:O5'	1:AA:896:C:H6	2.03	0.41
1:AA:960:U:H5	19:AS:78:ARG:HD3	1.84	0.41
1:AA:977:A:N6	1:AA:1224:G:OP1	2.53	0.41
1:AA:1015:A:N7	1:AA:1016:A:N7	2.68	0.41
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.36	0.41
1:AA:1093:A:C2	1:AA:1109:C:O2	2.72	0.41
1:AA:1129:C:OP1	9:AI:62:TYR:HE2	2.03	0.41
1:AA:1158:C:O2	1:AA:1158:C:C2'	2.68	0.41
1:AA:1266:G:H21	1:AA:1268:A:C5'	2.31	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:179:LYS:CA	8:AH:72:PRO:HG3	2.50	0.41
3:AC:141:VAL:HG11	3:AC:202:ILE:HG23	2.01	0.41
4:AD:78:LEU:HD21	4:AD:96:LEU:HB3	2.02	0.41
6:AF:6:VAL:HB	6:AF:63:TYR:CD2	2.55	0.41
6:AF:72:VAL:O	6:AF:73:ASN:C	2.63	0.41
7:AG:136:LYS:O	7:AG:137:LYS:C	2.62	0.41
8:AH:37:ARG:HE	8:AH:41:ARG:NH2	2.18	0.41
8:AH:96:GLY:O	8:AH:99:GLU:HB2	2.20	0.41
9:AI:65:VAL:O	9:AI:66:ARG:HB2	2.19	0.41
11:AK:59:TYR:O	11:AK:60:ALA:C	2.62	0.41
12:AL:89:ARG:HH11	12:AL:91:LYS:N	2.18	0.41
16:AP:45:THR:HG22	16:AP:47:ASP:H	1.85	0.41
18:AR:69:THR:O	18:AR:70:ILE:C	2.63	0.41
20:AT:32:ALA:O	20:AT:33:ILE:C	2.64	0.41
22:AV:3:C:H42	22:AV:70:G:H1	1.67	0.41
22:AV:53:G:N3	22:AV:53:G:H2'	2.35	0.41
24:AY:79:TYR:CE2	24:AY:269:LEU:HD13	2.55	0.41
24:AY:89:THR:HB	24:AY:90:PRO:HD3	1.98	0.41
24:AY:146:ARG:HD3	35:BA:2656:U:H4'	2.01	0.41
24:AY:155:LEU:CD2	24:AY:166:CYS:HB3	2.25	0.41
24:AY:333:GLN:O	24:AY:335:ARG:N	2.53	0.41
24:AY:456:GLU:O	24:AY:456:GLU:HG3	2.19	0.41
26:B1:40:ARG:NH2	35:BA:2232:U:OP2	2.38	0.41
29:B4:6:HIS:HA	41:BG:67:LYS:CD	2.50	0.41
30:B5:52:TYR:O	30:B5:53:ALA:HB3	2.20	0.41
33:B8:13:ARG:HB3	47:BP:63:PRO:HB3	2.02	0.41
33:B8:63:PRO:C	33:B8:64:TYR:O	2.63	0.41
35:BA:479:A:O2'	35:BA:481:G:C5'	2.60	0.41
35:BA:691:C:O2'	38:BD:43:ARG:HG2	2.21	0.41
35:BA:765:G:H8	35:BA:765:G:O5'	2.03	0.41
35:BA:862:G:C2'	35:BA:863:A:O4'	2.65	0.41
35:BA:1050:A:H2'	35:BA:1050:A:N3	2.35	0.41
35:BA:1087:G:H2'	35:BA:1088:A:H4'	2.01	0.41
35:BA:1308:A:N1	35:BA:1611:C:H1'	2.35	0.41
35:BA:1340:U:H4'	35:BA:1394:U:C1'	2.50	0.41
35:BA:1343:G:H1	35:BA:1404:C:N4	2.18	0.41
35:BA:1410:G:C2	35:BA:1593:G:C2	3.08	0.41
35:BA:1753:G:N2	35:BA:1758:G:C8	2.82	0.41
35:BA:1912:A:H5''	35:BA:1918:A:C6	2.54	0.41
35:BA:2448:A:OP2	35:BA:2498:C:OP2	2.38	0.41
35:BA:2553:G:C6	35:BA:2554:U:O2	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2557:G:C4	35:BA:2558:C:C5	3.07	0.41
35:BA:2574:G:C5	35:BA:2575:C:C4	3.08	0.41
35:BA:2627:G:N3	35:BA:2781:A:H2	2.17	0.41
35:BA:2681:C:N3	35:BA:2724:C:C5	2.89	0.41
35:BA:2847:U:C5	35:BA:2848:G:C6	3.08	0.41
37:BC:90:GLY:O	37:BC:153:ILE:CG2	2.68	0.41
37:BC:133:PRO:C	37:BC:135:GLY:N	2.78	0.41
38:BD:75:ILE:HG22	38:BD:76:PRO:O	2.20	0.41
38:BD:78:LYS:O	38:BD:95:LEU:CA	2.65	0.41
39:BE:117:MET:CA	39:BE:122:PHE:HB2	2.50	0.41
40:BF:7:TYR:OH	40:BF:10:PRO:CB	2.64	0.41
40:BF:32:LEU:O	40:BF:35:GLU:HB3	2.20	0.41
40:BF:43:LYS:O	40:BF:43:LYS:CG	2.66	0.41
40:BF:65:TRP:CH2	40:BF:75:HIS:CD2	3.05	0.41
40:BF:110:LEU:CD2	40:BF:183:VAL:CG1	2.88	0.41
40:BF:161:GLU:H	40:BF:161:GLU:HG3	1.67	0.41
41:BG:66:GLN:HB3	41:BG:92:VAL:CG2	2.50	0.41
42:BH:94:TYR:C	42:BH:95:ARG:HG3	2.45	0.41
45:BN:91:LEU:HD23	45:BN:95:PRO:CB	2.50	0.41
45:BN:96:GLU:CG	45:BN:100:GLU:OE2	2.68	0.41
46:BO:32:TYR:CD1	46:BO:32:TYR:N	2.88	0.41
47:BP:105:LEU:HD12	47:BP:105:LEU:H	1.85	0.41
48:BQ:29:PHE:HB2	48:BQ:105:GLU:CD	2.46	0.41
48:BQ:96:VAL:C	48:BQ:97:VAL:HG23	2.45	0.41
48:BQ:141:GLN:O	57:BZ:53:ILE:HB	2.19	0.41
49:BR:61:HIS:O	49:BR:65:LEU:HB2	2.20	0.41
49:BR:72:ASP:OD2	49:BR:75:LEU:CD2	2.67	0.41
49:BR:84:ALA:N	49:BR:85:PRO:HD3	2.36	0.41
51:BT:3:ARG:CB	51:BT:6:LEU:HB2	2.35	0.41
55:BX:24:GLY:N	55:BX:82:GLN:HE22	2.16	0.41
55:BX:39:ILE:O	55:BX:43:VAL:HG23	2.21	0.41
55:BX:57:LEU:CD2	55:BX:58:HIS:N	2.83	0.41
57:BZ:10:ARG:CB	57:BZ:36:LYS:HG3	2.39	0.41
1:AA:15:G:O6	1:AA:16:A:N6	2.53	0.41
1:AA:62:U:OP1	1:AA:386:C:H5'	2.20	0.41
1:AA:260:G:H2'	1:AA:261:U:C6	2.55	0.41
1:AA:720:C:C3'	1:AA:721:G:C8	3.00	0.41
1:AA:883:C:C2	1:AA:884:U:C5	3.08	0.41
1:AA:939:G:C5'	7:AG:102:ARG:HH22	2.31	0.41
1:AA:958:A:N6	19:AS:77:THR:O	2.53	0.41
1:AA:959:A:H5'	1:AA:985:C:H4'	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.85	0.41
1:AA:1048:G:C5'	14:AN:2:ALA:HB1	2.49	0.41
1:AA:1116:C:O2	1:AA:1185:G:C2	2.73	0.41
1:AA:1128:C:H5''	9:AI:16:ARG:NH2	2.35	0.41
1:AA:1298:C:C5	7:AG:114:ARG:CZ	3.03	0.41
1:AA:1527:C:H2'	1:AA:1528:U:C6	2.55	0.41
2:AB:138:LEU:C	2:AB:140:HIS:N	2.77	0.41
2:AB:155:LEU:HD11	2:AB:157:ARG:O	2.19	0.41
2:AB:165:VAL:O	2:AB:187:LEU:O	2.38	0.41
2:AB:212:GLN:HE22	2:AB:216:SER:HB2	1.84	0.41
4:AD:5:ILE:HG22	4:AD:6:GLY:N	2.35	0.41
4:AD:15:GLU:CD	4:AD:59:ARG:HH21	2.28	0.41
5:AE:84:PHE:HB2	5:AE:134:ALA:HB2	2.02	0.41
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.20	0.41
6:AF:46:ARG:NH2	18:AR:37:VAL:CG2	2.83	0.41
7:AG:40:ALA:O	7:AG:41:ARG:C	2.63	0.41
9:AI:19:LEU:HA	9:AI:60:ASP:O	2.19	0.41
9:AI:96:LEU:HD12	9:AI:96:LEU:HA	1.90	0.41
11:AK:24:SER:C	11:AK:26:ASN:N	2.79	0.41
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.88	0.41
12:AL:89:ARG:CD	12:AL:91:LYS:H	2.33	0.41
13:AM:70:LEU:O	13:AM:74:VAL:HG23	2.19	0.41
15:AO:25:THR:O	15:AO:26:GLU:C	2.63	0.41
19:AS:39:THR:CG2	19:AS:40:ILE:N	2.80	0.41
20:AT:40:ALA:CA	20:AT:55:ILE:HG21	2.49	0.41
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.19	0.41
24:AY:26:LYS:HD3	24:AY:89:THR:C	2.45	0.41
24:AY:139:THR:O	24:AY:255:PHE:HB2	2.20	0.41
24:AY:347:THR:OG1	24:AY:348:PHE:N	2.53	0.41
24:AY:487:ARG:O	24:AY:488:LYS:C	2.63	0.41
24:AY:492:GLN:HB3	24:AY:504:ILE:HG12	2.02	0.41
25:B0:7:LEU:HD22	48:BQ:85:LYS:CG	2.42	0.41
26:B1:51:VAL:O	26:B1:52:ARG:O	2.38	0.41
27:B2:30:ARG:HH21	55:BX:46:ALA:HA	1.85	0.41
33:B8:13:ARG:O	33:B8:24:ALA:CB	2.69	0.41
33:B8:48:PHE:CZ	35:BA:650:C:OP1	2.73	0.41
35:BA:9:U:O2	35:BA:10:G:N9	2.54	0.41
35:BA:28:A:H2'	35:BA:29:U:O4'	2.20	0.41
35:BA:89:G:H3'	35:BA:90:U:C5'	2.50	0.41
35:BA:116:C:H4'	35:BA:127:A:O4'	2.20	0.41
35:BA:214:G:N2	35:BA:215:G:N2	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.20	0.41
35:BA:641:C:H2'	35:BA:642:G:O4'	2.20	0.41
35:BA:863:A:OP2	48:BQ:22:LYS:HB2	2.20	0.41
35:BA:953:A:C2	35:BA:965:C:C2	3.08	0.41
35:BA:1130:U:C2	35:BA:2025:C:H5''	2.55	0.41
35:BA:1524:G:C6	35:BA:1525:G:C5	3.09	0.41
35:BA:1792:G:P	38:BD:206:LEU:HD11	2.59	0.41
35:BA:1797:C:C2	35:BA:1823:G:C2	3.08	0.41
35:BA:1839:G:C5	35:BA:1927:A:N3	2.88	0.41
35:BA:2100:G:N1	35:BA:2101:G:C2	2.88	0.41
35:BA:2532:G:O5'	35:BA:2532:G:C8	2.60	0.41
35:BA:2699:C:C4	35:BA:2700:C:C5	3.08	0.41
35:BA:2744:G:C4	35:BA:2761:G:C2	3.08	0.41
35:BA:2822:G:C2'	35:BA:2823:A:O5'	2.68	0.41
37:BC:53:ARG:NH1	37:BC:53:ARG:HB3	2.35	0.41
37:BC:161:ILE:HG21	37:BC:174:PRO:HG3	2.02	0.41
38:BD:66:ASP:CB	38:BD:103:ARG:HD2	2.48	0.41
38:BD:147:LEU:CD1	38:BD:155:LEU:HD11	2.51	0.41
39:BE:113:PHE:CD1	39:BE:158:GLY:HA2	2.55	0.41
39:BE:175:VAL:O	39:BE:175:VAL:HG13	2.20	0.41
41:BG:57:ALA:O	41:BG:58:GLN:C	2.63	0.41
42:BH:40:GLU:O	42:BH:41:MET:CB	2.67	0.41
47:BP:138:LEU:O	47:BP:138:LEU:HG	2.20	0.41
47:BP:146:VAL:CG2	47:BP:147:LEU:N	2.75	0.41
49:BR:47:PHE:O	49:BR:48:VAL:C	2.64	0.41
50:BS:25:ARG:O	50:BS:39:ILE:HA	2.21	0.41
51:BT:25:GLY:H	51:BT:49:VAL:CG1	2.33	0.41
51:BT:33:LYS:HZ1	51:BT:43:GLN:HG2	1.85	0.41
52:BU:12:ARG:O	52:BU:15:LYS:HG2	2.20	0.41
53:BV:34:GLU:O	53:BV:36:PRO:CD	2.69	0.41
53:BV:59:ALA:HB2	53:BV:96:ILE:HA	2.02	0.41
54:BW:4:LYS:HG2	54:BW:5:ALA:N	2.35	0.41
54:BW:18:ARG:NH1	54:BW:76:VAL:CG1	2.82	0.41
1:AA:284:G:H2'	1:AA:285:G:C8	2.55	0.41
1:AA:718:G:O6	18:AR:81:PHE:HD2	2.03	0.41
1:AA:927:G:N1	1:AA:1391:U:O2	2.53	0.41
1:AA:998:G:C2	1:AA:999:C:N3	2.89	0.41
1:AA:1092:A:C2	1:AA:1183:A:N1	2.89	0.41
1:AA:1113:C:N4	1:AA:1188:A:C2	2.88	0.41
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.21	0.41
1:AA:1239:A:N3	1:AA:1241:G:C6	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1309:G:P	13:AM:88:ARG:HH11	2.43	0.41
2:AB:204:ASN:HD21	2:AB:206:ASP:N	2.04	0.41
3:AC:35:GLU:OE2	3:AC:95:THR:HG23	2.19	0.41
3:AC:64:VAL:CG1	3:AC:65:ALA:N	2.77	0.41
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	2.03	0.41
6:AF:30:LEU:O	6:AF:31:GLU:C	2.64	0.41
7:AG:50:ILE:CD1	7:AG:121:ALA:HB1	2.51	0.41
7:AG:150:ALA:HA	11:AK:59:TYR:HB3	2.01	0.41
11:AK:19:ALA:O	11:AK:82:VAL:HA	2.21	0.41
11:AK:27:ASN:CG	11:AK:55:LYS:HB2	2.46	0.41
11:AK:82:VAL:HG12	11:AK:108:ILE:HA	2.02	0.41
12:AL:9:GLN:C	12:AL:11:VAL:H	2.28	0.41
13:AM:6:GLY:C	13:AM:8:GLU:N	2.77	0.41
17:AQ:18:THR:HG21	17:AQ:69:LYS:HD2	2.02	0.41
17:AQ:52:LYS:HE3	17:AQ:52:LYS:HB3	1.69	0.41
17:AQ:63:ARG:HA	17:AQ:64:PRO:HD3	1.84	0.41
18:AR:41:LYS:C	18:AR:43:PHE:N	2.73	0.41
19:AS:78:ARG:CB	19:AS:81:ARG:HH12	2.30	0.41
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	2.01	0.41
20:AT:41:ILE:HG12	20:AT:41:ILE:H	1.50	0.41
24:AY:140:PHE:HA	24:AY:255:PHE:O	2.20	0.41
24:AY:303:ILE:HG12	24:AY:316:ALA:CB	2.46	0.41
24:AY:308:ASP:H	24:AY:309:PRO:CD	2.19	0.41
24:AY:417:VAL:HG13	24:AY:497:GLY:O	2.21	0.41
24:AY:431:ILE:H	24:AY:431:ILE:CD1	2.17	0.41
24:AY:506:THR:O	24:AY:507:SER:HB3	2.19	0.41
25:B0:16:SER:OG	35:BA:2261:C:H3'	2.20	0.41
31:B6:15:GLU:CD	31:B6:18:ARG:NH2	2.79	0.41
32:B7:10:ARG:O	32:B7:11:LYS:C	2.62	0.41
33:B8:13:ARG:O	33:B8:24:ALA:HB1	2.20	0.41
35:BA:527:C:P	35:BA:2779:U:O4	2.78	0.41
35:BA:635:C:O2'	35:BA:639:U:OP1	2.38	0.41
35:BA:743:G:OP1	39:BE:130:GLY:O	2.38	0.41
35:BA:814:C:O2'	35:BA:815:C:C5'	2.56	0.41
35:BA:943:U:OP1	47:BP:37:GLY:C	2.63	0.41
35:BA:996:A:C5	35:BA:1160:G:C2	3.09	0.41
35:BA:1032:A:H61	35:BA:1123:C:H42	1.68	0.41
35:BA:1058:G:C6	35:BA:1059:G:N7	2.88	0.41
35:BA:1265:A:OP1	35:BA:1265:A:H8	2.03	0.41
35:BA:1272:A:H3'	35:BA:1273:U:C5'	2.39	0.41
35:BA:1313:U:O2	35:BA:1313:U:C3'	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1341:U:OP2	35:BA:1394:U:H1'	2.21	0.41
35:BA:1429:G:O4'	35:BA:1568:G:H1'	2.19	0.41
35:BA:1747:G:H8	35:BA:1747:G:O5'	2.03	0.41
35:BA:2019:A:C5	35:BA:2020:A:N7	2.89	0.41
35:BA:2492:U:O2'	35:BA:2493:U:H5'	2.20	0.41
35:BA:2511:U:O4	35:BA:2575:C:N3	2.53	0.41
38:BD:13:ARG:C	38:BD:16:MET:HG2	2.44	0.41
38:BD:44:ASN:CB	38:BD:48:ARG:O	2.62	0.41
40:BF:11:VAL:HB	40:BF:12:LEU:H	1.68	0.41
40:BF:53:THR:C	40:BF:55:GLY:N	2.78	0.41
40:BF:160:ASN:O	40:BF:164:ARG:HB2	2.21	0.41
42:BH:54:ARG:HH11	42:BH:54:ARG:CG	2.31	0.41
42:BH:104:GLU:O	42:BH:104:GLU:CG	2.68	0.41
47:BP:62:LEU:N	47:BP:62:LEU:HD23	2.34	0.41
48:BQ:12:GLN:O	48:BQ:13:GLN:C	2.63	0.41
49:BR:96:ARG:CD	49:BR:98:LEU:HD11	2.38	0.41
51:BT:61:PHE:O	51:BT:62:THR:CG2	2.68	0.41
52:BU:95:LEU:HD13	53:BV:4:ILE:CG2	2.46	0.41
56:BY:2:ARG:C	56:BY:4:LYS:H	2.27	0.41
56:BY:2:ARG:HD3	56:BY:3:VAL:HG23	2.02	0.41
56:BY:24:VAL:HG12	56:BY:25:GLY:N	2.36	0.41
56:BY:88:LYS:HD2	56:BY:88:LYS:N	2.35	0.41
57:BZ:47:VAL:O	57:BZ:48:PHE:C	2.64	0.41
57:BZ:54:HIS:HB3	57:BZ:101:PRO:CG	2.51	0.41
57:BZ:168:GLU:CA	57:BZ:168:GLU:OE1	2.66	0.41
1:AA:15:G:C4	1:AA:16:A:C8	3.08	0.41
1:AA:66:G:N2	1:AA:172:A:C2	2.84	0.41
1:AA:79:G:N2	1:AA:91:C:N4	2.68	0.41
1:AA:108:G:N3	1:AA:108:G:O4'	2.53	0.41
1:AA:407:G:H1	1:AA:435:C:N4	2.19	0.41
1:AA:529:G:O6	12:AL:49:ASN:ND2	2.53	0.41
1:AA:584:G:O2'	1:AA:585:G:H5'	2.20	0.41
1:AA:648:A:H2'	1:AA:649:G:C8	2.55	0.41
1:AA:662:G:N2	1:AA:663:A:N3	2.67	0.41
1:AA:672:U:O2	1:AA:673:G:N7	2.53	0.41
1:AA:714:G:C6	1:AA:715:A:C6	3.09	0.41
1:AA:728:A:H62	15:AO:51:HIS:CD2	2.38	0.41
1:AA:786:G:C6	1:AA:787:A:N7	2.89	0.41
1:AA:887:G:H2'	1:AA:888:G:H5'	2.03	0.41
1:AA:899:C:H6	1:AA:899:C:OP1	2.04	0.41
1:AA:1000:U:C4	1:AA:1001:A:N7	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1000:U:H6	1:AA:1000:U:H3'	1.84	0.41
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.44	0.41
1:AA:1268:A:N3	1:AA:1268:A:H2'	2.35	0.41
1:AA:1325:C:N4	1:AA:1326:C:N4	2.64	0.41
1:AA:1353:G:H8	1:AA:1353:G:O5'	2.03	0.41
1:AA:1464:G:C6	1:AA:1465:C:N4	2.89	0.41
1:AA:1501:C:N4	1:AA:1504:G:C2	2.88	0.41
2:AB:19:HIS:CD2	2:AB:20:GLU:OE1	2.72	0.41
2:AB:61:LEU:HA	2:AB:61:LEU:HD12	1.86	0.41
3:AC:5:ILE:HG21	14:AN:58:LYS:HZ1	1.83	0.41
3:AC:25:GLY:C	3:AC:27:LYS:N	2.79	0.41
3:AC:29:TYR:C	3:AC:29:TYR:HD1	2.28	0.41
3:AC:80:GLY:C	3:AC:82:GLU:N	2.79	0.41
4:AD:57:ARG:HH22	5:AE:107:ARG:NH1	2.19	0.41
5:AE:70:PRO:CG	5:AE:142:LEU:HD13	2.48	0.41
6:AF:4:TYR:HD1	6:AF:92:LYS:HG3	1.79	0.41
9:AI:79:LEU:HD22	9:AI:79:LEU:HA	1.88	0.41
10:AJ:53:PRO:CA	14:AN:42:ILE:HD11	2.50	0.41
11:AK:84:VAL:C	11:AK:85:ARG:HG3	2.46	0.41
11:AK:95:ILE:O	11:AK:96:ARG:C	2.63	0.41
12:AL:36:VAL:HG11	24:AY:406:PRO:CG	2.50	0.41
12:AL:36:VAL:HG12	12:AL:82:VAL:CG1	2.43	0.41
16:AP:79:VAL:HB	16:AP:80:PHE:CD1	2.56	0.41
17:AQ:3:LYS:HD3	17:AQ:61:GLU:O	2.20	0.41
18:AR:60:ALA:O	18:AR:63:GLN:HB3	2.20	0.41
22:AV:21:A:C6	22:AV:46:G:C4	3.08	0.41
22:AV:31:G:C2	22:AV:40:C:C2	3.09	0.41
22:AV:55:U:H2'	22:AV:57:A:OP2	2.20	0.41
24:AY:346:LEU:O	24:AY:348:PHE:CE2	2.73	0.41
24:AY:368:HIS:HB3	24:AY:369:ASN:H	1.65	0.41
24:AY:380:THR:OG1	24:AY:383:GLU:HB2	2.21	0.41
24:AY:469:ALA:HB3	24:AY:507:SER:O	2.21	0.41
25:B0:29:GLN:O	25:B0:66:VAL:HA	2.21	0.41
29:B4:8:LYS:HB2	29:B4:8:LYS:HE3	1.88	0.41
30:B5:44:THR:C	30:B5:51:TYR:HE1	2.29	0.41
32:B7:11:LYS:NZ	35:BA:686:G:OP1	2.35	0.41
33:B8:60:LEU:C	33:B8:63:PRO:HD2	2.46	0.41
35:BA:220:G:H22	35:BA:427:U:H2'	1.85	0.41
35:BA:301:G:O2'	35:BA:302:C:C6	2.70	0.41
35:BA:389:G:C6	47:BP:70:GLN:HG3	2.55	0.41
35:BA:919:G:C4	35:BA:920:G:N7	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1163:G:H2'	35:BA:1164:G:H8	1.86	0.41
35:BA:1221:C:C2'	35:BA:1221(A):C:C6	2.90	0.41
35:BA:1258:C:H1'	40:BF:84:VAL:CG2	2.40	0.41
35:BA:1383:C:H6	35:BA:1383:C:H3'	1.86	0.41
35:BA:1542:A:C2	35:BA:1544:A:C5	3.08	0.41
35:BA:1642:G:H2'	35:BA:1643:G:C5'	2.51	0.41
35:BA:1667:G:OP1	46:BO:7:TYR:N	2.54	0.41
35:BA:1792:G:C5	35:BA:1793:C:C5	3.08	0.41
35:BA:1799:G:C4'	35:BA:1800:C:H6	2.34	0.41
35:BA:1842:G:H2'	35:BA:1843:C:O4'	2.20	0.41
35:BA:1909:C:N4	35:BA:1922:G:C6	2.89	0.41
35:BA:1977:A:HO2'	35:BA:1978:A:H5'	1.84	0.41
35:BA:2077:A:C2'	35:BA:2078:C:H5'	2.48	0.41
35:BA:2185:C:C2'	35:BA:2186:G:H5'	2.51	0.41
35:BA:2308:G:HO2'	35:BA:2309:A:H8	1.65	0.41
35:BA:2545:G:N3	35:BA:2565:A:H2	2.18	0.41
35:BA:2573:C:OP1	35:BA:2574:G:H5''	2.20	0.41
35:BA:2721:A:H2'	35:BA:2722:G:C8	2.54	0.41
35:BA:2758:A:O2'	35:BA:2759:G:H8	2.04	0.41
35:BA:2784:C:C4'	39:BE:42:ASP:OD1	2.64	0.41
35:BA:2820:A:O2'	39:BE:191:PRO:CG	2.67	0.41
36:BB:17:C:H42	36:BB:68:C:H42	1.68	0.41
36:BB:67:G:HO2'	36:BB:68:C:P	2.43	0.41
36:BB:112:U:H2'	36:BB:113:G:C8	2.56	0.41
37:BC:22:ILE:O	37:BC:22:ILE:CG2	2.68	0.41
37:BC:28:LEU:HD21	37:BC:32:LEU:HD11	2.03	0.41
37:BC:59:ARG:CB	37:BC:164:ARG:HG3	2.50	0.41
38:BD:120:GLY:O	38:BD:131:LEU:HD23	2.20	0.41
38:BD:171:ASP:O	38:BD:171:ASP:OD1	2.38	0.41
40:BF:18:ARG:NH1	40:BF:199:TRP:CZ3	2.88	0.41
40:BF:33:LEU:CD2	40:BF:112:MET:SD	3.08	0.41
41:BG:32:PRO:C	41:BG:33:ARG:HG3	2.45	0.41
41:BG:46:ALA:N	41:BG:47:LYS:HD2	2.35	0.41
41:BG:116:ASP:HB3	41:BG:117:PHE:H	1.66	0.41
42:BH:148:ILE:HA	42:BH:151:ILE:HD11	2.03	0.41
48:BQ:55:VAL:CA	48:BQ:58:PHE:CE1	2.97	0.41
49:BR:69:ASP:O	49:BR:70:LEU:C	2.63	0.41
50:BS:14:VAL:HG12	50:BS:15:ARG:N	2.34	0.41
50:BS:71:ARG:O	50:BS:72:ALA:O	2.39	0.41
52:BU:52:ARG:HA	52:BU:55:ARG:NH1	2.35	0.41
56:BY:75:ILE:O	56:BY:76:CYS:CB	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:27:G:C6	1:AA:557:G:N1	2.88	0.41
1:AA:55:A:N3	24:AY:311:HIS:CD2	2.88	0.41
1:AA:148:G:N2	1:AA:175:C:N3	2.68	0.41
1:AA:335:C:HO2'	1:AA:1433:A:HO2'	1.67	0.41
1:AA:357:G:O2'	1:AA:358:U:H5'	2.21	0.41
1:AA:446:G:H2'	1:AA:447:G:O4'	2.19	0.41
1:AA:716:A:H1'	11:AK:117:ASN:O	2.20	0.41
1:AA:770:C:C4'	1:AA:900:A:H2	2.33	0.41
1:AA:834:C:N3	1:AA:853:G:C2	2.88	0.41
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.21	0.41
1:AA:960:U:C6	1:AA:1225:A:C8	3.08	0.41
1:AA:976:G:C5'	1:AA:1358:U:O2	2.69	0.41
1:AA:978:A:H2'	1:AA:979:C:H6	1.85	0.41
1:AA:1120:G:H2'	1:AA:1121:U:C6	2.56	0.41
1:AA:1157:A:H61	1:AA:1178:G:H21	1.68	0.41
1:AA:1168:A:OP1	1:AA:1168:A:C8	2.68	0.41
1:AA:1197:G:C2	1:AA:1198:G:C8	3.08	0.41
1:AA:1377:A:OP2	7:AG:94:ARG:NH1	2.53	0.41
1:AA:1407:C:H42	1:AA:1408:A:N6	2.18	0.41
1:AA:1483:A:C2	35:BA:1960:A:O4'	2.73	0.41
2:AB:229:VAL:C	2:AB:230:VAL:HG13	2.45	0.41
5:AE:12:LEU:CD2	5:AE:13:ILE:H	2.19	0.41
5:AE:56:GLN:HB3	5:AE:57:LYS:H	1.68	0.41
7:AG:15:ASP:HB3	7:AG:19:GLY:HA2	1.99	0.41
8:AH:5:PRO:O	8:AH:8:ASP:CA	2.68	0.41
9:AI:114:TYR:OH	10:AJ:59:SER:HA	2.21	0.41
12:AL:77:LEU:HD22	12:AL:81:SER:HB3	2.03	0.41
12:AL:83:VAL:HG12	12:AL:107:ALA:HB2	1.97	0.41
13:AM:61:GLU:HA	13:AM:66:LEU:HD13	2.03	0.41
14:AN:19:ARG:HB3	14:AN:20:ALA:H	1.65	0.41
14:AN:25:VAL:HB	14:AN:38:GLY:O	2.21	0.41
15:AO:25:THR:HG1	15:AO:70:LEU:HD21	1.81	0.41
16:AP:8:ARG:HG2	16:AP:9:PHE:N	2.36	0.41
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.35	0.41
16:AP:38:TYR:C	16:AP:38:TYR:CD1	2.99	0.41
18:AR:67:ALA:O	18:AR:68:LYS:C	2.63	0.41
18:AR:74:ARG:HG2	18:AR:79:LEU:O	2.20	0.41
19:AS:20:LEU:HD23	19:AS:23:ASN:CB	2.51	0.41
19:AS:35:SER:O	19:AS:38:SER:OG	2.22	0.41
19:AS:61:TYR:C	19:AS:62:ILE:HG22	2.46	0.41
23:AX:17:U:N3	23:AX:18:G:N7	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:171:TRP:NE1	24:AY:234:VAL:CG1	2.75	0.41
24:AY:327:LYS:HZ2	24:AY:344:ASP:CB	2.33	0.41
24:AY:369:ASN:HB2	24:AY:373:ILE:CD1	2.50	0.41
27:B2:3:LEU:HD23	27:B2:3:LEU:O	2.20	0.41
31:B6:20:ASN:O	31:B6:21:TYR:CG	2.74	0.41
33:B8:7:HIS:CE1	33:B8:9:GLY:CA	2.90	0.41
35:BA:133:C:O5'	35:BA:133:C:H6	2.03	0.41
35:BA:142:A:N6	35:BA:1596:A:H5'	2.36	0.41
35:BA:210:C:O5'	35:BA:210:C:H6	2.03	0.41
35:BA:263:C:H2'	35:BA:264:C:C6	2.55	0.41
35:BA:282:A:H5'	35:BA:352:G:O6	2.20	0.41
35:BA:514:A:O2'	35:BA:515:A:H5'	2.20	0.41
35:BA:516:C:H2'	35:BA:517:C:C6	2.56	0.41
35:BA:601:C:H5'	40:BF:108:LYS:HZ2	1.85	0.41
35:BA:754:C:H2'	35:BA:755:C:C5	2.51	0.41
35:BA:813:U:N3	35:BA:814:C:C4	2.89	0.41
35:BA:860:U:H1'	35:BA:2268:A:H5'	2.01	0.41
35:BA:990:A:O5'	35:BA:991:C:P	2.78	0.41
35:BA:1151:G:C2	35:BA:1152:C:C2	3.08	0.41
35:BA:1248:G:OP1	40:BF:92:PRO:CG	2.68	0.41
35:BA:1392:A:H8	35:BA:1392:A:O5'	2.04	0.41
35:BA:1422:G:C5	35:BA:1423:G:N7	2.89	0.41
35:BA:1613:G:N3	35:BA:1613:G:H2'	2.36	0.41
35:BA:1659:U:OP2	39:BE:132:HIS:CE1	2.74	0.41
35:BA:1993:U:H4'	39:BE:128:SER:HG	1.77	0.41
35:BA:2073:C:O2'	35:BA:2598:A:O2'	2.37	0.41
35:BA:2248:C:H3'	35:BA:2249:U:C6	2.56	0.41
35:BA:2333:A:H1'	35:BA:2335:A:N7	2.36	0.41
35:BA:2356:C:C2'	35:BA:2357:U:H5'	2.50	0.41
35:BA:2531:A:H61	35:BA:2662:A:H61	1.68	0.41
35:BA:2532:G:N2	35:BA:2662:A:N1	2.69	0.41
35:BA:2564:A:C6	35:BA:2565:A:C6	3.09	0.41
35:BA:2634:G:H2'	35:BA:2635:C:H6	1.84	0.41
35:BA:2776:A:H4'	35:BA:2778:A:H5''	2.03	0.41
36:BB:85:G:N2	36:BB:93:G:C5	2.88	0.41
37:BC:3:HIS:CG	37:BC:7:TYR:CE2	3.08	0.41
38:BD:198:ASN:ND2	38:BD:198:ASN:O	2.54	0.41
38:BD:225:ALA:O	38:BD:226:MET:O	2.38	0.41
39:BE:38:THR:CG2	39:BE:40:GLU:CD	2.93	0.41
40:BF:36:VAL:HG12	40:BF:36:VAL:O	2.19	0.41
40:BF:185:ASP:OD1	40:BF:188:ARG:HD3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:112:LEU:O	45:BN:113:GLY:C	2.63	0.41
48:BQ:26:TYR:CB	48:BQ:137:TYR:HD1	2.33	0.41
49:BR:47:PHE:HB3	49:BR:48:VAL:H	1.55	0.41
50:BS:20:ARG:HG2	50:BS:20:ARG:NH1	2.35	0.41
50:BS:29:PHE:CD1	50:BS:29:PHE:O	2.74	0.41
51:BT:3:ARG:HB3	51:BT:6:LEU:CB	2.36	0.41
52:BU:28:ARG:HD3	52:BU:38:THR:HG23	2.01	0.41
53:BV:39:LEU:HD13	53:BV:47:VAL:HG11	2.02	0.41
56:BY:20:TYR:N	56:BY:20:TYR:CD1	2.89	0.41
56:BY:38:ILE:CD1	56:BY:66:PRO:HG3	2.50	0.41
56:BY:91:GLU:HB3	56:BY:92:ASN:H	1.69	0.41
57:BZ:30:ASN:O	57:BZ:33:LEU:N	2.53	0.41
57:BZ:71:VAL:CG1	57:BZ:73:GLN:O	2.68	0.41
1:AA:339:C:P	46:BO:96:THR:OG1	2.79	0.41
1:AA:345:C:H3'	51:BT:36:GLU:OE2	2.20	0.41
1:AA:411:A:C5	1:AA:429:U:C5	3.08	0.41
1:AA:471:G:O5'	1:AA:471:G:C8	2.71	0.41
1:AA:559:A:C5'	1:AA:560:U:O3'	2.69	0.41
1:AA:580:U:H4'	15:AO:58:MET:CG	2.51	0.41
1:AA:619:U:O2	4:AD:134:ASP:CG	2.63	0.41
1:AA:637:G:H2'	1:AA:638:G:O4'	2.21	0.41
1:AA:751:U:H2'	1:AA:752:G:O4'	2.19	0.41
1:AA:760:G:H21	17:AQ:94:ASN:HB3	1.81	0.41
1:AA:773:G:N3	1:AA:774:G:C8	2.88	0.41
1:AA:980:C:H3'	1:AA:981:U:C6	2.55	0.41
1:AA:1028:C:O2	1:AA:1033:G:N1	2.52	0.41
1:AA:1134:G:N2	1:AA:1141:C:N3	2.69	0.41
1:AA:1316:G:O3'	14:AN:18:VAL:CG2	2.67	0.41
1:AA:1488:G:C4	1:AA:1489:G:N7	2.89	0.41
2:AB:22:LYS:NZ	2:AB:40:HIS:CE1	2.89	0.41
2:AB:30:ARG:HG3	2:AB:31:TYR:N	2.29	0.41
2:AB:107:THR:C	2:AB:109:SER:N	2.77	0.41
2:AB:158:LEU:HD22	2:AB:182:ILE:HD11	2.03	0.41
2:AB:222:ILE:O	2:AB:226:ARG:N	2.47	0.41
3:AC:22:TRP:CG	3:AC:59:ARG:HG3	2.55	0.41
4:AD:3:ARG:HE	4:AD:5:ILE:HG13	1.86	0.41
4:AD:58:LEU:O	4:AD:59:ARG:C	2.61	0.41
4:AD:94:LEU:HD23	4:AD:94:LEU:HA	1.93	0.41
4:AD:108:LEU:HD23	4:AD:110:PHE:CD2	2.50	0.41
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.88	0.41
9:AI:25:LYS:HB2	9:AI:25:LYS:HE3	1.81	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:98:ILE:O	10:AJ:98:ILE:HG22	2.21	0.41
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.97	0.41
11:AK:58:PRO:HB2	11:AK:93:GLN:HG3	2.02	0.41
12:AL:43:VAL:HG23	12:AL:53:ARG:HB3	2.02	0.41
13:AM:46:LYS:C	13:AM:47:ASP:OD1	2.63	0.41
13:AM:69:GLU:O	13:AM:73:GLU:HG3	2.20	0.41
13:AM:79:LYS:C	13:AM:81:LEU:H	2.28	0.41
16:AP:45:THR:HG22	16:AP:47:ASP:N	2.36	0.41
16:AP:55:ARG:O	16:AP:58:TYR:N	2.53	0.41
17:AQ:11:VAL:HG23	17:AQ:12:SER:N	2.35	0.41
18:AR:53:ARG:NH1	18:AR:60:ALA:CA	2.79	0.41
19:AS:20:LEU:HA	19:AS:20:LEU:HD23	1.85	0.41
19:AS:23:ASN:CG	29:B4:47:GLN:HG3	2.45	0.41
20:AT:62:LEU:CA	20:AT:65:LYS:HG3	2.51	0.41
22:AV:52:G:C2	22:AV:63:G:C5	3.09	0.41
22:AV:64:G:H2'	22:AV:65:C:C1'	2.51	0.41
24:AY:89:THR:HB	24:AY:99:THR:HG21	1.99	0.41
24:AY:324:LYS:NZ	24:AY:326:GLU:OE2	2.45	0.41
25:B0:72:ARG:O	25:B0:73:GLY:C	2.64	0.41
26:B1:40:ARG:HH12	35:BA:2232:U:P	2.43	0.41
28:B3:32:GLN:O	28:B3:33:GLN:C	2.64	0.41
31:B6:6:ARG:HB2	31:B6:7:ILE:H	1.52	0.41
32:B7:6:GLN:C	35:BA:686:G:H1'	2.42	0.41
32:B7:7:PRO:CA	35:BA:686:G:H8	2.26	0.41
33:B8:7:HIS:HB3	33:B8:59:LYS:HB3	2.02	0.41
33:B8:63:PRO:O	33:B8:64:TYR:O	2.39	0.41
34:B9:1:MET:CG	34:B9:31:LYS:O	2.69	0.41
35:BA:201:C:H4'	35:BA:386:G:C2	2.56	0.41
35:BA:268:C:H42	35:BA:424:G:H1	1.68	0.41
35:BA:465:G:H2'	35:BA:466:A:C8	2.56	0.41
35:BA:552:G:H1'	35:BA:1220:A:N1	2.35	0.41
35:BA:695:G:H2'	35:BA:696:G:H8	1.85	0.41
35:BA:733:G:O6	35:BA:761:A:C8	2.74	0.41
35:BA:830:G:C5	35:BA:2448:A:C5	3.08	0.41
35:BA:857:C:N4	35:BA:858:U:O4	2.53	0.41
35:BA:954:G:C2'	35:BA:955:C:H5'	2.50	0.41
35:BA:1011:G:O2'	35:BA:1013:C:O4'	2.30	0.41
35:BA:1023:U:O4'	35:BA:1123:C:OP1	2.38	0.41
35:BA:1058:G:C2	35:BA:1059:G:N7	2.88	0.41
35:BA:1268:A:H2'	35:BA:1269:A:C8	2.55	0.41
35:BA:1334:G:C2'	35:BA:1335:U:O5'	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1403:C:H2'	35:BA:1404:C:O5'	2.20	0.41
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.56	0.41
35:BA:1669:A:H4'	35:BA:2549:G:H4'	2.02	0.41
35:BA:1774:C:O2	35:BA:1774:C:H2'	2.21	0.41
35:BA:1829:A:O2'	38:BD:15:PHE:HD2	2.04	0.41
35:BA:1848:A:H2'	35:BA:1849:G:O4'	2.21	0.41
35:BA:1922:G:C2	35:BA:1923:U:C2	3.09	0.41
35:BA:2510:C:C2'	35:BA:2511:U:H5'	2.50	0.41
35:BA:2591:C:OP1	38:BD:239:ARG:CG	2.69	0.41
35:BA:2601:C:C2	35:BA:2603:G:N7	2.89	0.41
35:BA:2701:C:H2'	35:BA:2702:U:C6	2.56	0.41
35:BA:2720:U:O4	35:BA:2872:G:C6	2.74	0.41
36:BB:7:G:C2'	36:BB:8:U:H5''	2.50	0.41
36:BB:42:C:H42	41:BG:91:ARG:HD3	1.85	0.41
36:BB:52:A:O2'	36:BB:53:A:C8	2.66	0.41
36:BB:116:G:N2	36:BB:117:G:C5	2.89	0.41
37:BC:114:VAL:CG1	37:BC:144:THR:HG22	2.51	0.41
37:BC:168:THR:O	37:BC:170:ALA:N	2.53	0.41
38:BD:43:ARG:H	38:BD:43:ARG:HG3	1.58	0.41
38:BD:45:ASN:HD22	38:BD:45:ASN:H	1.69	0.41
38:BD:79:VAL:HG23	38:BD:115:GLN:N	2.36	0.41
38:BD:130:ALA:HB1	38:BD:191:ALA:O	2.21	0.41
38:BD:204:ILE:HD13	38:BD:204:ILE:O	2.21	0.41
38:BD:227:ASN:CB	38:BD:228:PRO:HD2	2.50	0.41
39:BE:92:THR:OG1	39:BE:93:VAL:N	2.52	0.41
39:BE:98:PRO:HG3	39:BE:174:ASP:HA	2.03	0.41
40:BF:7:TYR:CD2	40:BF:16:GLY:C	2.99	0.41
40:BF:65:TRP:HB2	40:BF:66:PRO:CD	2.51	0.41
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.55	0.41
42:BH:91:GLY:HA2	42:BH:160:LYS:NZ	2.33	0.41
42:BH:103:LEU:O	42:BH:104:GLU:C	2.64	0.41
45:BN:39:ARG:O	45:BN:42:TRP:CB	2.68	0.41
46:BO:25:LEU:HD11	46:BO:59:LYS:HE2	2.03	0.41
48:BQ:16:ARG:C	48:BQ:17:LEU:HD23	2.45	0.41
53:BV:1:MET:HE2	53:BV:1:MET:HA	2.02	0.41
54:BW:107:LEU:HD12	54:BW:107:LEU:N	2.35	0.41
1:AA:697:U:C4'	1:AA:786:G:H4'	2.51	0.41
1:AA:741:G:O2'	1:AA:742:G:C5'	2.69	0.41
1:AA:833:U:H2'	1:AA:834:C:C6	2.56	0.41
1:AA:990:C:H2'	1:AA:991:U:O4'	2.20	0.41
1:AA:1083:U:H3'	1:AA:1084:G:C8	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1124:G:O2'	1:AA:1126:U:O4	2.38	0.41
1:AA:1251:A:O4'	1:AA:1370:G:H4'	2.21	0.41
1:AA:1325:C:C6	1:AA:1325:C:OP2	2.74	0.41
1:AA:1374:A:H2'	1:AA:1375:A:H5'	2.02	0.41
1:AA:1418:A:H2	1:AA:1483:A:N3	2.18	0.41
3:AC:67:THR:CG2	3:AC:102:ASN:HB2	2.37	0.41
3:AC:113:ALA:HB3	3:AC:184:TYR:C	2.45	0.41
4:AD:200:GLU:HG2	4:AD:201:GLN:N	2.36	0.41
8:AH:9:MET:HG3	8:AH:26:VAL:CB	2.51	0.41
8:AH:63:LEU:N	8:AH:63:LEU:CD2	2.79	0.41
8:AH:94:TYR:CD1	8:AH:94:TYR:N	2.89	0.41
8:AH:124:ALA:HB1	8:AH:129:VAL:O	2.20	0.41
10:AJ:65:LEU:O	10:AJ:67:THR:N	2.54	0.41
12:AL:31:PRO:O	12:AL:32:PHE:CD2	2.74	0.41
12:AL:121:GLY:O	12:AL:122:THR:C	2.64	0.41
13:AM:15:VAL:CG1	13:AM:44:ARG:O	2.69	0.41
15:AO:26:GLU:OE1	15:AO:81:LEU:HD22	2.21	0.41
20:AT:90:GLN:C	20:AT:91:LEU:HD23	2.45	0.41
24:AY:10:VAL:HB	24:AY:11:ALA:H	1.75	0.41
24:AY:158:VAL:HG12	24:AY:162:LEU:CB	2.50	0.41
24:AY:190:THR:HG22	24:AY:192:LEU:HD13	2.02	0.41
24:AY:193:TYR:HB2	24:AY:263:PHE:CB	2.51	0.41
24:AY:282:ARG:CG	24:AY:319:ARG:NH1	2.83	0.41
25:B0:14:ARG:HG3	25:B0:14:ARG:HH11	1.86	0.41
25:B0:20:ARG:HH11	25:B0:20:ARG:CG	2.33	0.41
26:B1:73:LEU:O	26:B1:77:ALA:HB2	2.20	0.41
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.20	0.41
29:B4:25:TYR:O	29:B4:26:SER:CB	2.69	0.41
29:B4:37:SER:O	29:B4:38:LYS:CB	2.67	0.41
33:B8:3:LYS:NZ	35:BA:241:A:O2'	2.54	0.41
35:BA:27:G:HO2'	35:BA:28:A:P	2.44	0.41
35:BA:552:G:N3	35:BA:552:G:H2'	2.35	0.41
35:BA:743:G:O3'	39:BE:132:HIS:CB	2.68	0.41
35:BA:833:U:C5	35:BA:834:C:C5	3.08	0.41
35:BA:911:A:O4'	35:BA:2264:C:H4'	2.20	0.41
35:BA:966:G:C1'	35:BA:2267:A:N6	2.83	0.41
35:BA:1002:G:C2'	35:BA:1003:G:O5'	2.69	0.41
35:BA:1034:G:C2	35:BA:1122:G:C2	3.08	0.41
35:BA:1152:C:C5	35:BA:1153:C:H5	2.38	0.41
35:BA:1173:G:H3'	35:BA:1174:A:H5'	2.03	0.41
35:BA:1214:A:H8	35:BA:1214:A:O5'	2.04	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1224:C:C4	35:BA:1225:G:C6	3.09	0.41
35:BA:1438:U:C4	35:BA:1552:G:N2	2.88	0.41
35:BA:1445:A:O2'	35:BA:1445(A):C:H5'	2.21	0.41
35:BA:1479:G:C2	35:BA:1480:G:C4	3.09	0.41
35:BA:1631(A):A:H2'	35:BA:1632:A:C8	2.55	0.41
35:BA:1669:A:C6	35:BA:1994:C:O2	2.74	0.41
35:BA:1696:G:O2'	35:BA:1697:G:H5'	2.20	0.41
35:BA:1837:C:H2'	35:BA:1838:C:H5''	2.02	0.41
35:BA:1923:U:H2'	35:BA:1924:C:OP2	2.21	0.41
35:BA:2000:G:O2'	35:BA:2001:A:H5'	2.21	0.41
35:BA:2050:C:C1'	39:BE:156:MET:HE1	2.50	0.41
35:BA:2307:G:H5'	35:BA:2308:G:OP2	2.20	0.41
35:BA:2478:A:H8	35:BA:2478:A:O5'	2.04	0.41
35:BA:2504:U:C6	35:BA:2504:U:H3'	2.56	0.41
35:BA:2830:G:O2'	35:BA:2831:G:H5'	2.20	0.41
36:BB:68:C:N1	36:BB:69:G:C8	2.89	0.41
36:BB:99:G:O2'	36:BB:100:A:O5'	2.34	0.41
38:BD:92:ILE:HA	38:BD:106:ILE:HA	2.02	0.41
38:BD:144:ALA:H	38:BD:156:ALA:CB	2.34	0.41
39:BE:180:ASN:C	39:BE:181:LEU:HD12	2.45	0.41
45:BN:116:LEU:O	45:BN:119:ARG:HB2	2.20	0.41
47:BP:58:THR:C	47:BP:60:MET:H	2.25	0.41
47:BP:96:THR:HG22	47:BP:126:VAL:CG2	2.50	0.41
48:BQ:8:LYS:O	48:BQ:9:TYR:CG	2.74	0.41
48:BQ:45:GLN:H	48:BQ:45:GLN:NE2	2.17	0.41
52:BU:9:VAL:O	52:BU:13:LYS:CE	2.64	0.41
52:BU:14:HIS:O	52:BU:15:LYS:C	2.63	0.41
53:BV:35:LEU:O	53:BV:37:VAL:O	2.38	0.41
53:BV:78:LYS:O	53:BV:79:VAL:CG2	2.69	0.41
54:BW:73:ALA:O	54:BW:74:ALA:HB2	2.21	0.41
57:BZ:34:ASN:O	57:BZ:35:ARG:NE	2.54	0.41
57:BZ:47:VAL:O	57:BZ:50:GLN:HB2	2.21	0.41
57:BZ:145:GLU:HG3	57:BZ:146:ILE:N	2.36	0.41
57:BZ:147:GLY:O	57:BZ:148:ASP:O	2.39	0.41
57:BZ:151:HIS:HA	57:BZ:171:ILE:HD13	2.02	0.41
1:AA:142:G:N3	1:AA:196:A:H2	2.18	0.41
1:AA:151:A:O2'	1:AA:152:A:H5'	2.20	0.41
1:AA:195:A:P	20:AT:68:LYS:NZ	2.94	0.41
1:AA:195:A:P	20:AT:68:LYS:HZ3	2.43	0.41
1:AA:355:C:H2'	1:AA:356:A:C8	2.55	0.41
1:AA:520:A:N6	1:AA:521:G:N3	2.67	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:525:C:C2	1:AA:526:C:C5	3.09	0.41
1:AA:543:C:H5'	4:AD:14:ARG:CZ	2.51	0.41
1:AA:571:U:H5''	1:AA:819:A:C5	2.55	0.41
1:AA:668:G:O2'	1:AA:669:U:H5'	2.21	0.41
1:AA:671:G:N1	1:AA:672:U:C2	2.89	0.41
1:AA:689:C:H4'	1:AA:705:U:H1'	2.03	0.41
1:AA:792:A:C2	1:AA:794:A:C4	3.09	0.41
1:AA:826:C:N3	1:AA:827:U:C5	2.88	0.41
1:AA:835:U:C5'	18:AR:64:ARG:HH22	2.34	0.41
1:AA:899:C:OP1	1:AA:899:C:C6	2.74	0.41
1:AA:939:G:OP1	7:AG:102:ARG:NH1	2.50	0.41
1:AA:949:A:H2'	1:AA:950:U:C5'	2.40	0.41
1:AA:949:A:C5	1:AA:950:U:C4	3.08	0.41
1:AA:961:U:OP2	1:AA:1223:C:H1'	2.21	0.41
1:AA:979:C:C3'	1:AA:980:C:C5'	2.74	0.41
1:AA:992:U:HO2'	1:AA:993:G:C5'	2.33	0.41
1:AA:1014:A:C2	19:AS:34:TRP:CZ2	3.09	0.41
1:AA:1054:C:OP1	1:AA:1198:G:OP2	2.39	0.41
1:AA:1114:C:H2'	1:AA:1115:C:H6	1.86	0.41
1:AA:1134:G:C5	1:AA:1135:U:O2	2.74	0.41
1:AA:1179:A:N6	1:AA:1180:A:C2	2.88	0.41
1:AA:1219:U:C2	1:AA:1220:G:C8	3.09	0.41
1:AA:1238:A:C2	1:AA:1241:G:H1'	2.56	0.41
1:AA:1284:C:P	1:AA:1285:A:H3'	2.61	0.41
1:AA:1314:C:C2'	1:AA:1315:U:O4'	2.69	0.41
1:AA:1349:A:N1	1:AA:1374:A:C8	2.88	0.41
1:AA:1406:U:C5	1:AA:1407:C:C6	3.09	0.41
1:AA:1425:U:H2'	1:AA:1426:C:C5	2.55	0.41
1:AA:1441:G:O2'	1:AA:1460:A:N6	2.50	0.41
1:AA:1446:U:O2'	1:AA:1447:A:H3'	2.21	0.41
1:AA:1456:G:H3'	1:AA:1456:G:N3	2.36	0.41
1:AA:1485:U:O5'	1:AA:1485:U:H6	2.03	0.41
2:AB:9:GLU:HA	2:AB:12:GLU:HG3	2.02	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:HA	2.03	0.41
2:AB:69:LEU:HD22	2:AB:69:LEU:HA	1.84	0.41
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	2.03	0.41
2:AB:104:ASN:O	2:AB:108:ILE:HG12	2.21	0.41
3:AC:28:GLN:HA	3:AC:28:GLN:NE2	2.35	0.41
3:AC:108:ASN:O	3:AC:109:PRO:C	2.64	0.41
4:AD:61:LYS:HE2	4:AD:61:LYS:HB3	1.82	0.41
4:AD:91:SER:O	4:AD:94:LEU:N	2.52	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:173:TRP:CD1	4:AD:189:PRO:HD3	2.56	0.41
6:AF:11:ASN:HB2	6:AF:86:ARG:NH2	2.36	0.41
7:AG:29:LYS:NZ	7:AG:102:ARG:HG3	2.36	0.41
7:AG:99:LEU:O	7:AG:102:ARG:HB3	2.21	0.41
7:AG:108:ALA:H	7:AG:123:GLU:HG2	1.86	0.41
7:AG:126:ASP:HB3	7:AG:131:LYS:HG3	2.01	0.41
7:AG:134:ALA:O	7:AG:135:VAL:C	2.64	0.41
7:AG:145:ALA:C	7:AG:147:ALA:H	2.29	0.41
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.05	0.41
8:AH:25:ASP:OD2	8:AH:60:ARG:NE	2.54	0.41
8:AH:26:VAL:CG2	8:AH:32:LYS:HD3	2.50	0.41
8:AH:87:SER:OG	8:AH:92:ARG:CA	2.62	0.41
9:AI:81:ILE:O	9:AI:84:ALA:HB3	2.21	0.41
9:AI:90:PRO:C	9:AI:92:TYR:N	2.77	0.41
9:AI:98:PRO:HB2	9:AI:99:LEU:CD2	2.47	0.41
10:AJ:8:LEU:HB3	10:AJ:16:LEU:HD21	2.02	0.41
11:AK:28:THR:C	11:AK:29:ILE:HG22	2.45	0.41
12:AL:104:VAL:O	12:AL:107:ALA:HB3	2.21	0.41
12:AL:124:LYS:O	12:AL:124:LYS:HG3	2.20	0.41
13:AM:73:GLU:OE1	13:AM:73:GLU:C	2.64	0.41
14:AN:12:ARG:HH11	14:AN:14:PRO:CG	2.26	0.41
17:AQ:58:GLU:O	17:AQ:59:ILE:CG1	2.68	0.41
19:AS:45:VAL:O	19:AS:45:VAL:CG2	2.69	0.41
20:AT:21:LYS:C	20:AT:23:ARG:N	2.78	0.41
20:AT:36:LEU:HA	20:AT:39:LYS:HB2	2.03	0.41
22:AV:49:G:N2	22:AV:50:U:N1	2.68	0.41
22:AV:71:C:H2'	22:AV:72:A:C8	2.56	0.41
24:AY:21:HIS:HD2	24:AY:122:ARG:CA	2.34	0.41
24:AY:96:SER:O	24:AY:100:TYR:N	2.45	0.41
24:AY:106:VAL:HG22	24:AY:108:CYS:N	2.30	0.41
24:AY:138:LEU:HD11	24:AY:272:LEU:CB	2.38	0.41
24:AY:140:PHE:C	24:AY:141:MET:SD	3.04	0.41
24:AY:309:PRO:HG3	24:AY:313:ASP:CG	2.43	0.41
24:AY:416:LEU:HA	24:AY:416:LEU:HD23	1.78	0.41
24:AY:480:LYS:HE2	24:AY:480:LYS:CA	2.51	0.41
25:B0:42:GLY:O	25:B0:57:PHE:CG	2.74	0.41
26:B1:34:THR:O	35:BA:2432:A:N6	2.51	0.41
26:B1:40:ARG:HG3	26:B1:41:ARG:N	2.35	0.41
27:B2:7:ARG:O	27:B2:11:GLU:HG3	2.21	0.41
27:B2:17:SER:O	27:B2:21:LEU:HG	2.20	0.41
27:B2:59:ARG:O	27:B2:62:THR:HB	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:15:TYR:HA	28:B3:16:PRO:HD3	1.87	0.41
30:B5:20:ARG:O	30:B5:23:HIS:HB2	2.21	0.41
30:B5:22:HIS:C	30:B5:24:ALA:H	2.28	0.41
30:B5:51:TYR:CD2	30:B5:52:TYR:CE1	3.08	0.41
32:B7:16:HIS:O	32:B7:43:THR:HG23	2.20	0.41
32:B7:31:LEU:HD22	32:B7:42:LEU:HB3	2.03	0.41
34:B9:1:MET:HG2	34:B9:31:LYS:O	2.21	0.41
35:BA:18:C:O2'	52:BU:23:GLY:HA2	2.21	0.41
35:BA:28:A:H62	35:BA:512:G:H1'	1.85	0.41
35:BA:37:C:H2'	35:BA:38:A:C8	2.55	0.41
35:BA:95:G:C2'	35:BA:96:G:O5'	2.69	0.41
35:BA:109:G:H5'	35:BA:348:G:H4'	2.02	0.41
35:BA:309:G:N7	35:BA:330:A:N6	2.69	0.41
35:BA:498:G:H2'	35:BA:499:U:C6	2.50	0.41
35:BA:541:C:H2'	35:BA:542:C:C6	2.56	0.41
35:BA:629:G:O2'	35:BA:639:U:O2	2.37	0.41
35:BA:671:C:H2'	35:BA:672:C:H6	1.86	0.41
35:BA:704:G:C2	35:BA:726:G:C4	3.09	0.41
35:BA:779:U:OP1	38:BD:49:ILE:HG13	2.20	0.41
35:BA:783:A:N6	35:BA:785:G:C5	2.89	0.41
35:BA:813:U:N3	35:BA:814:C:N4	2.69	0.41
35:BA:878:A:H5'	35:BA:878:A:N3	2.35	0.41
35:BA:941:A:C2	35:BA:942:G:C4	3.09	0.41
35:BA:996:A:C4'	52:BU:92:ARG:HH21	2.34	0.41
35:BA:1288:U:P	35:BA:1289:C:H41	2.44	0.41
35:BA:1428:C:O2'	35:BA:1569:A:OP1	2.38	0.41
35:BA:1477:A:N6	35:BA:1478:G:C6	2.89	0.41
35:BA:1553:A:C2	35:BA:1555:G:C8	3.09	0.41
35:BA:1667:G:N2	35:BA:1991:U:C5	2.89	0.41
35:BA:1746:G:N2	35:BA:1747:G:C4	2.88	0.41
35:BA:1754:C:H6	35:BA:1754:C:O5'	2.04	0.41
35:BA:1807:G:O2'	35:BA:1809:A:N7	2.47	0.41
35:BA:1855:G:C6	35:BA:1888:G:C8	3.09	0.41
35:BA:1893:C:H5'	35:BA:1893:C:H6	1.86	0.41
35:BA:1969:A:O2'	35:BA:1972:A:C1'	2.65	0.41
35:BA:1972:A:N3	35:BA:1973:G:C8	2.89	0.41
35:BA:2070:G:C2	35:BA:2071:A:N3	2.89	0.41
35:BA:2157:G:O2'	35:BA:2158:A:C5'	2.66	0.41
35:BA:2193:G:H2'	35:BA:2194:G:O4'	2.21	0.41
35:BA:2234:G:C6	35:BA:2235:G:N7	2.89	0.41
35:BA:2289:G:H1'	35:BA:2346:A:H2	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2353:G:H1	35:BA:2364:C:H42	1.69	0.41
35:BA:2447:G:C4	35:BA:2500:U:C5	3.09	0.41
35:BA:2598:A:N7	35:BA:2599:G:C1'	2.81	0.41
35:BA:2641:G:H5'	35:BA:2641:G:C8	2.45	0.41
35:BA:2699:C:H2'	35:BA:2700:C:O4'	2.21	0.41
36:BB:5:C:O2'	36:BB:6:C:H5'	2.20	0.41
36:BB:8:U:H5'	36:BB:8:U:C6	2.56	0.41
36:BB:81:G:N1	36:BB:97:G:C2	2.89	0.41
37:BC:120:MET:HA	37:BC:123:VAL:HG12	2.02	0.41
37:BC:191:ALA:O	37:BC:194:ARG:HB2	2.21	0.41
38:BD:18:VAL:O	38:BD:19:ALA:O	2.39	0.41
38:BD:21:PHE:HD1	38:BD:91:ARG:NH2	2.16	0.41
38:BD:60:ARG:HH21	38:BD:87:ASN:HA	1.76	0.41
38:BD:121:PRO:O	38:BD:123:ALA:N	2.45	0.41
38:BD:169:GLU:OE1	38:BD:184:LYS:CE	2.69	0.41
38:BD:173:VAL:O	38:BD:173:VAL:HG22	2.20	0.41
38:BD:181:GLU:CG	38:BD:272:ALA:CB	2.90	0.41
38:BD:208:LYS:HE3	38:BD:210:GLY:HA3	2.02	0.41
38:BD:218:ARG:HG3	38:BD:218:ARG:NH1	2.36	0.41
39:BE:38:THR:CG2	39:BE:39:PRO:HD2	2.51	0.41
39:BE:57:LYS:HE3	39:BE:57:LYS:HA	2.02	0.41
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.50	0.41
39:BE:67:PHE:O	39:BE:68:ALA:C	2.64	0.41
40:BF:169:ASN:HD22	40:BF:169:ASN:HA	1.65	0.41
41:BG:10:LYS:HE2	41:BG:14:GLU:OE2	2.21	0.41
41:BG:16:ARG:HA	41:BG:16:ARG:HD3	1.83	0.41
41:BG:16:ARG:CZ	41:BG:28:VAL:HG13	2.50	0.41
41:BG:67:LYS:CD	41:BG:67:LYS:N	2.84	0.41
41:BG:135:LEU:CD2	41:BG:155:MET:HG3	2.51	0.41
41:BG:170:ARG:O	41:BG:174:GLU:HB2	2.21	0.41
42:BH:18:GLU:HB3	42:BH:25:LYS:HG3	2.01	0.41
42:BH:154:PRO:HG3	42:BH:163:TYR:HD1	1.86	0.41
45:BN:1:MET:SD	45:BN:1:MET:C	3.03	0.41
45:BN:62:VAL:O	45:BN:63:THR:C	2.64	0.41
46:BO:11:ALA:HB1	46:BO:98:VAL:HG23	2.03	0.41
46:BO:12:ASP:OD2	46:BO:85:VAL:CG1	2.69	0.41
46:BO:71:ARG:HH21	46:BO:77:ILE:HG21	1.86	0.41
47:BP:59:LEU:HA	47:BP:61:ARG:HE	1.74	0.41
47:BP:96:THR:O	47:BP:100:LEU:HD23	2.20	0.41
47:BP:146:VAL:CG1	47:BP:147:LEU:H	2.33	0.41
48:BQ:78:PRO:O	48:BQ:79:LEU:C	2.62	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:48:VAL:CB	49:BR:51:LEU:HD22	2.50	0.41
50:BS:98:VAL:O	50:BS:99:LYS:C	2.63	0.41
51:BT:14:TYR:O	51:BT:15:VAL:C	2.63	0.41
51:BT:31:SER:O	51:BT:32:TYR:O	2.39	0.41
51:BT:79:HIS:O	51:BT:80:SER:HB3	2.21	0.41
51:BT:93:ARG:HG2	51:BT:117:ASP:CB	2.45	0.41
51:BT:122:ASP:C	51:BT:124:ASP:H	2.28	0.41
52:BU:15:LYS:HG3	52:BU:16:LYS:N	2.35	0.41
52:BU:27:LEU:HA	52:BU:30:LYS:HG2	2.01	0.41
52:BU:60:LEU:HD23	52:BU:60:LEU:HA	1.73	0.41
52:BU:97:ASP:O	52:BU:100:VAL:HG23	2.21	0.41
53:BV:47:VAL:O	53:BV:49:THR:O	2.39	0.41
54:BW:3:ALA:HB3	54:BW:107:LEU:HD12	2.02	0.41
55:BX:66:LEU:HD23	55:BX:66:LEU:C	2.46	0.41
56:BY:7:VAL:HG12	56:BY:83:THR:HG21	2.03	0.41
56:BY:13:VAL:HG22	56:BY:14:LEU:H	1.86	0.41
57:BZ:8:TYR:N	57:BZ:8:TYR:CD1	2.89	0.41
57:BZ:29:TYR:CD1	57:BZ:29:TYR:C	2.99	0.41
57:BZ:53:ILE:HG22	57:BZ:71:VAL:HG23	2.03	0.41
57:BZ:70:LEU:N	57:BZ:70:LEU:HD23	2.36	0.41
57:BZ:77:ASP:O	57:BZ:78:LYS:C	2.64	0.41
57:BZ:98:MET:HG3	57:BZ:99:TYR:N	2.33	0.41
57:BZ:100:VAL:HA	57:BZ:101:PRO:HD2	1.72	0.41
57:BZ:144:LEU:HA	57:BZ:144:LEU:HD13	1.76	0.41
57:BZ:150:LEU:O	57:BZ:171:ILE:CG1	2.65	0.41
1:AA:30:U:C1'	1:AA:31:G:OP1	2.69	0.41
1:AA:460:G:N2	1:AA:473:G:O6	2.54	0.41
1:AA:529:G:H2'	1:AA:530:G:H5'	2.01	0.41
1:AA:586:C:O2'	1:AA:587:G:H5'	2.20	0.41
1:AA:753:A:C4'	1:AA:754:C:C2	3.03	0.41
1:AA:803:G:H2'	1:AA:804:U:C6	2.56	0.41
1:AA:885:G:H1	1:AA:912:C:H42	1.69	0.41
1:AA:908:A:C2	1:AA:909:A:C5	3.09	0.41
1:AA:962:C:H2'	1:AA:963:G:H8	1.85	0.41
1:AA:979:C:OP1	1:AA:1222:G:O6	2.38	0.41
1:AA:1004:A:C5	1:AA:1037:C:N4	2.88	0.41
1:AA:1145:C:O2'	1:AA:1146:A:C5'	2.69	0.41
1:AA:1414:U:HO2'	1:AA:1415:G:H8	1.67	0.41
2:AB:7:VAL:O	2:AB:7:VAL:HG12	2.21	0.41
2:AB:44:LEU:O	2:AB:47:THR:N	2.54	0.41
2:AB:69:LEU:HB2	2:AB:159:PRO:HG2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:236:TYR:HB3	2:AB:239:VAL:HG23	2.02	0.41
3:AC:42:LEU:O	3:AC:45:LYS:HB3	2.21	0.41
3:AC:132:ARG:C	3:AC:134:ILE:N	2.79	0.41
3:AC:137:ALA:O	3:AC:139:GLN:N	2.54	0.41
3:AC:155:GLY:C	3:AC:196:LEU:CD1	2.94	0.41
4:AD:15:GLU:OE1	4:AD:59:ARG:NH2	2.54	0.41
4:AD:152:SER:O	4:AD:153:ARG:C	2.64	0.41
4:AD:202:LEU:O	4:AD:203:VAL:C	2.62	0.41
5:AE:126:ARG:O	5:AE:128:PRO:HD3	2.21	0.41
9:AI:104:ARG:NH1	9:AI:104:ARG:CG	2.76	0.41
11:AK:16:SER:O	11:AK:35:PRO:HG3	2.21	0.41
11:AK:72:ALA:O	11:AK:73:MET:C	2.64	0.41
13:AM:79:LYS:O	13:AM:82:MET:HB3	2.21	0.41
13:AM:98:VAL:O	13:AM:98:VAL:HG12	2.21	0.41
15:AO:9:GLN:O	15:AO:10:LYS:C	2.64	0.41
15:AO:21:ASP:O	15:AO:21:ASP:CG	2.63	0.41
15:AO:26:GLU:HB2	15:AO:27:VAL:H	1.59	0.41
15:AO:53:HIS:C	15:AO:53:HIS:ND1	2.74	0.41
18:AR:34:TYR:HD1	18:AR:34:TYR:C	2.28	0.41
20:AT:74:LYS:HG2	20:AT:75:ASN:N	2.36	0.41
24:AY:15:THR:CG2	24:AY:106:VAL:HA	2.51	0.41
24:AY:223:LEU:HA	24:AY:226:GLN:CB	2.51	0.41
24:AY:421:GLU:CA	24:AY:529:HIS:HE1	2.31	0.41
24:AY:486:LYS:HA	24:AY:493:LEU:HD12	2.01	0.41
27:B2:3:LEU:C	27:B2:3:LEU:CD2	2.94	0.41
30:B5:6:VAL:CG2	35:BA:2015:A:C2	3.00	0.41
31:B6:26:ASN:HB3	31:B6:27:LYS:H	1.40	0.41
32:B7:5:TRP:CZ3	35:BA:464:U:O4'	2.74	0.41
34:B9:29:ASN:C	34:B9:31:LYS:N	2.79	0.41
34:B9:32:HIS:O	34:B9:34:GLN:N	2.54	0.41
35:BA:60:G:C8	35:BA:63:U:C5	3.10	0.41
35:BA:245:G:C2'	35:BA:246:C:H5'	2.51	0.41
35:BA:284:U:H6	35:BA:284:U:O5'	2.04	0.41
35:BA:496:G:H1'	54:BW:61:ASN:HD21	1.86	0.41
35:BA:572:A:H8	35:BA:572:A:O5'	2.04	0.41
35:BA:840:C:H2'	35:BA:841:A:H8	1.85	0.41
35:BA:1370:C:C5	35:BA:1371:G:C5	3.09	0.41
35:BA:1410:G:C6	35:BA:1411:C:C4	3.09	0.41
35:BA:1667:G:N3	35:BA:1991:U:C5	2.88	0.41
35:BA:1816:G:H8	38:BD:62:TYR:CE2	2.39	0.41
35:BA:1827:C:O5'	38:BD:222:ARG:NH1	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2028:U:O4	35:BA:2033:A:OP2	2.37	0.41
35:BA:2101:G:N1	35:BA:2102:U:C4	2.89	0.41
35:BA:2163:C:H2'	35:BA:2164:C:H5'	2.03	0.41
35:BA:2283:C:C4	35:BA:2389:G:C5	3.09	0.41
35:BA:2286:A:C2	35:BA:2346:A:N6	2.89	0.41
35:BA:2413:G:N2	47:BP:70:GLN:HE22	2.06	0.41
35:BA:2422:A:C6	35:BA:2424:C:C4	3.09	0.41
35:BA:2526:G:H2'	35:BA:2527:C:O4'	2.21	0.41
35:BA:2819:G:C6	35:BA:2821:A:C2	3.09	0.41
35:BA:2845:G:N1	35:BA:2846:G:C6	2.89	0.41
36:BB:13:A:HO2'	36:BB:14:U:H3'	1.83	0.41
36:BB:18:G:N2	36:BB:68:C:N4	2.69	0.41
37:BC:8:ARG:C	37:BC:10:LEU:N	2.78	0.41
37:BC:212:VAL:HG12	37:BC:224:ILE:HD11	2.03	0.41
38:BD:62:TYR:CE1	38:BD:64:ILE:CA	3.00	0.41
38:BD:149:PRO:O	38:BD:151:LYS:HD2	2.21	0.41
38:BD:224:ALA:CA	38:BD:233:HIS:HB2	2.48	0.41
39:BE:195:LEU:O	39:BE:196:VAL:CG1	2.68	0.41
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.94	0.41
40:BF:133:ASN:N	40:BF:133:ASN:HD22	2.19	0.41
40:BF:192:LEU:HD21	40:BF:194:MET:CE	2.51	0.41
41:BG:35:GLU:O	41:BG:99:MET:HE1	2.21	0.41
41:BG:113:ARG:O	41:BG:140:ILE:HG22	2.21	0.41
47:BP:96:THR:O	47:BP:99:LEU:CB	2.69	0.41
48:BQ:43:THR:OG1	48:BQ:46:GLN:NE2	2.54	0.41
48:BQ:51:ARG:HG2	48:BQ:52:VAL:N	2.35	0.41
48:BQ:125:LEU:HA	48:BQ:126:PRO:HD3	1.95	0.41
50:BS:25:ARG:HH12	50:BS:40:ILE:HD11	1.86	0.41
50:BS:66:ALA:O	50:BS:70:GLY:N	2.53	0.41
50:BS:70:GLY:C	50:BS:72:ALA:H	2.29	0.41
51:BT:50:ILE:HD11	51:BT:64:ARG:HB2	2.03	0.41
51:BT:75:ILE:N	51:BT:75:ILE:HD12	2.36	0.41
52:BU:68:ALA:CB	52:BU:106:PHE:HE2	2.33	0.41
53:BV:12:TYR:CD1	53:BV:12:TYR:N	2.88	0.41
55:BX:26:TYR:O	55:BX:81:VAL:HG22	2.20	0.41
55:BX:61:GLY:O	55:BX:62:LYS:O	2.39	0.41
56:BY:3:VAL:O	56:BY:3:VAL:CG1	2.69	0.41
56:BY:25:GLY:HA3	56:BY:39:VAL:HG13	2.02	0.41
57:BZ:5:LEU:HD23	57:BZ:5:LEU:HA	1.80	0.41
57:BZ:141:VAL:O	57:BZ:143:GLY:N	2.44	0.41
57:BZ:155:LEU:N	57:BZ:155:LEU:CD2	2.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:286:G:C6	1:AA:287:U:C4	3.09	0.40
1:AA:367:U:C2	1:AA:394:G:C2	3.09	0.40
1:AA:371:G:H2'	1:AA:372:C:O4'	2.21	0.40
1:AA:405:U:C5'	1:AA:495:A:H2	2.34	0.40
1:AA:537:G:H2'	1:AA:538:G:H8	1.85	0.40
1:AA:635:G:C2'	1:AA:636:U:H5'	2.51	0.40
1:AA:651:C:O2'	1:AA:652:U:H5'	2.21	0.40
1:AA:741:G:H5'	15:AO:39:LEU:HD21	2.01	0.40
1:AA:761:G:H2'	1:AA:762:C:H6	1.87	0.40
1:AA:817:C:C4	1:AA:819:A:N9	2.90	0.40
1:AA:961:U:H5'	1:AA:984:C:O2	2.21	0.40
1:AA:1150:U:O4	1:AA:1151:A:N6	2.54	0.40
1:AA:1153:C:O2'	1:AA:1154:G:OP2	2.37	0.40
1:AA:1423:G:C6	1:AA:1424:C:C4	3.09	0.40
1:AA:1486:G:C6	1:AA:1487:G:C6	3.09	0.40
2:AB:23:ARG:HD2	2:AB:23:ARG:HA	1.93	0.40
2:AB:25:ASN:ND2	2:AB:193:ASP:HB2	2.37	0.40
2:AB:100:GLY:HA3	2:AB:104:ASN:HB3	2.02	0.40
2:AB:137:ARG:HB3	2:AB:138:LEU:CD2	2.50	0.40
3:AC:73:PRO:O	3:AC:77:ILE:HG13	2.21	0.40
4:AD:15:GLU:OE1	4:AD:15:GLU:HA	2.21	0.40
4:AD:64:LEU:HD13	4:AD:198:VAL:HG11	2.03	0.40
4:AD:102:ASP:CG	4:AD:136:PRO:HB3	2.46	0.40
4:AD:184:LYS:O	4:AD:186:LEU:HG	2.22	0.40
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	2.03	0.40
5:AE:11:ILE:H	5:AE:11:ILE:HG13	1.27	0.40
7:AG:71:PRO:O	7:AG:72:ARG:C	2.63	0.40
8:AH:38:ILE:O	8:AH:42:GLU:N	2.46	0.40
9:AI:16:ARG:HG3	9:AI:16:ARG:NH1	2.34	0.40
10:AJ:81:THR:O	10:AJ:83:GLU:N	2.54	0.40
11:AK:82:VAL:C	11:AK:83:ILE:HG13	2.44	0.40
12:AL:36:VAL:CG1	24:AY:406:PRO:CB	2.85	0.40
15:AO:49:ASP:C	15:AO:51:HIS:N	2.78	0.40
22:AV:26:G:N2	22:AV:44:A:N6	2.55	0.40
24:AY:30:THR:HG21	24:AY:88:ASP:CB	2.49	0.40
24:AY:326:GLU:HA	24:AY:326:GLU:OE1	2.21	0.40
24:AY:486:LYS:HE2	24:AY:486:LYS:HB3	1.88	0.40
24:AY:503:TYR:CE1	24:AY:514:ALA:HB2	2.56	0.40
25:B0:7:LEU:HD13	48:BQ:85:LYS:HZ1	1.83	0.40
35:BA:50:U:H5''	35:BA:51:G:C8	2.56	0.40
35:BA:221:A:N7	35:BA:266:G:O6	2.55	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:555:U:O2	35:BA:556:G:N7	2.53	0.40
35:BA:693:C:O2	35:BA:693:C:H2'	2.21	0.40
35:BA:727:A:C6	35:BA:728:G:N1	2.89	0.40
35:BA:839:U:C2	35:BA:840:C:C5	3.09	0.40
35:BA:907:U:C2	35:BA:908:C:C5	3.09	0.40
35:BA:931:G:N2	35:BA:933:A:C8	2.89	0.40
35:BA:942:G:H5''	47:BP:36:LYS:H	1.86	0.40
35:BA:993:G:C1'	53:BV:87:HIS:NE2	2.84	0.40
35:BA:1166:C:O5'	35:BA:1166:C:H6	2.04	0.40
35:BA:1246:A:N6	35:BA:1247:A:N6	2.68	0.40
35:BA:1435:G:H1	35:BA:1557:C:H42	1.69	0.40
35:BA:1451:C:H4'	35:BA:1452:A:H5'	2.03	0.40
35:BA:1498:C:C3'	35:BA:1499:C:H5'	2.52	0.40
35:BA:1518:U:H6	35:BA:1518:U:O5'	2.03	0.40
35:BA:1578:U:C2'	35:BA:1579:A:C5'	2.87	0.40
35:BA:1654:A:OP1	49:BR:3:HIS:HB2	2.21	0.40
35:BA:1667:G:OP1	46:BO:6:THR:CA	2.66	0.40
35:BA:1718:G:O2'	35:BA:1719:G:H5'	2.20	0.40
35:BA:1803:A:N6	35:BA:1814:G:O2'	2.54	0.40
35:BA:1805:U:O2	38:BD:50:THR:CB	2.64	0.40
35:BA:1986:A:C2	35:BA:1987:G:C8	3.09	0.40
35:BA:2134:A:C1'	35:BA:2159:G:H21	2.34	0.40
35:BA:2320:A:N1	35:BA:2333:A:C4	2.89	0.40
35:BA:2524:G:H5'	35:BA:2524:G:C8	2.52	0.40
35:BA:2532:G:C2'	35:BA:2533:A:H5'	2.51	0.40
35:BA:2553:G:H3'	35:BA:2554:U:C5'	2.45	0.40
35:BA:2587:A:O5'	35:BA:2587:A:H8	2.03	0.40
35:BA:2786:U:C2'	35:BA:2787:C:H6	2.19	0.40
35:BA:2873:A:O4'	49:BR:8:ARG:NH2	2.54	0.40
37:BC:7:TYR:HA	37:BC:10:LEU:CD2	2.51	0.40
38:BD:144:ALA:HA	38:BD:155:LEU:O	2.21	0.40
39:BE:4:ILE:HD12	39:BE:92:THR:O	2.21	0.40
39:BE:79:ARG:HB3	39:BE:80:GLU:H	1.56	0.40
40:BF:64:ILE:CG2	40:BF:65:TRP:H	2.34	0.40
40:BF:124:LEU:HD12	40:BF:125:LEU:H	1.86	0.40
40:BF:139:PHE:O	40:BF:142:TRP:N	2.54	0.40
41:BG:44:GLY:O	41:BG:47:LYS:CE	2.65	0.40
41:BG:111:LEU:O	41:BG:114:ILE:HG22	2.20	0.40
44:BK:5:UNK:C	44:BK:7:UNK:N	2.84	0.40
45:BN:33:LEU:C	45:BN:35:ARG:H	2.29	0.40
45:BN:137:LYS:HB3	45:BN:138:LEU:H	1.64	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:114:ILE:N	47:BP:129:ALA:O	2.49	0.40
48:BQ:45:GLN:O	48:BQ:49:ALA:HB2	2.21	0.40
50:BS:78:LEU:O	50:BS:79:ALA:HB2	2.21	0.40
51:BT:19:LEU:HD22	51:BT:85:LYS:HG3	2.01	0.40
51:BT:22:PHE:CE2	51:BT:85:LYS:CE	3.02	0.40
51:BT:118:ARG:O	51:BT:122:ASP:HB2	2.21	0.40
52:BU:59:ARG:HA	52:BU:62:ILE:HB	2.03	0.40
52:BU:114:LYS:HG2	52:BU:114:LYS:H	1.70	0.40
56:BY:78:ALA:HB1	56:BY:81:LYS:HE3	2.01	0.40
56:BY:96:ILE:HG13	56:BY:99:CYS:CB	2.50	0.40
57:BZ:5:LEU:CD1	57:BZ:39:VAL:HG11	2.32	0.40
1:AA:118:U:O4	1:AA:289:G:H4'	2.21	0.40
1:AA:199:G:O2'	1:AA:200:G:H5'	2.21	0.40
1:AA:243:A:C2	1:AA:246:A:N7	2.89	0.40
1:AA:411:A:N6	1:AA:413:G:N2	2.69	0.40
1:AA:620:C:N1	4:AD:135:LEU:HG	2.35	0.40
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.21	0.40
1:AA:1117:G:O3'	9:AI:104:ARG:HD2	2.21	0.40
1:AA:1297:C:H1'	7:AG:114:ARG:HH21	1.85	0.40
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.21	0.40
1:AA:1396:A:H4'	1:AA:1398:A:O4'	2.21	0.40
4:AD:95:GLY:O	4:AD:98:GLU:N	2.50	0.40
5:AE:7:GLU:HB3	5:AE:112:LEU:HD22	2.03	0.40
5:AE:30:ALA:O	5:AE:45:PHE:HA	2.21	0.40
5:AE:32:VAL:HG12	5:AE:33:VAL:N	2.36	0.40
5:AE:123:LEU:O	5:AE:125:SER:O	2.40	0.40
6:AF:2:ARG:HH11	6:AF:92:LYS:CE	2.34	0.40
8:AH:35:ILE:O	8:AH:37:ARG:N	2.54	0.40
8:AH:104:ARG:NH2	8:AH:138:TRP:CH2	2.89	0.40
8:AH:104:ARG:CZ	8:AH:138:TRP:CZ2	3.04	0.40
9:AI:27:THR:N	9:AI:61:ALA:O	2.49	0.40
10:AJ:23:ILE:O	10:AJ:23:ILE:HG22	2.21	0.40
12:AL:126:LYS:CB	24:AY:487:ARG:NH2	2.56	0.40
13:AM:102:ARG:CG	13:AM:102:ARG:HH11	2.33	0.40
13:AM:106:ASN:HB3	13:AM:107:ALA:H	1.51	0.40
16:AP:21:VAL:CG1	16:AP:34:GLU:O	2.67	0.40
17:AQ:77:VAL:O	17:AQ:78:GLU:CB	2.68	0.40
19:AS:27:GLU:HB3	19:AS:28:LYS:H	1.37	0.40
22:AV:49:G:O2'	22:AV:50:U:H5'	2.21	0.40
23:AX:13:A:N3	23:AX:13:A:H2'	2.36	0.40
23:AX:17:U:H2'	23:AX:18:G:O5'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:402:ARG:O	24:AY:462:VAL:N	2.52	0.40
24:AY:457:TYR:C	24:AY:459:VAL:N	2.79	0.40
26:B1:11:ARG:CB	26:B1:12:PRO:HD2	2.18	0.40
28:B3:26:LEU:HD11	28:B3:47:VAL:HG22	2.01	0.40
31:B6:9:LEU:HD13	31:B6:10:LEU:C	2.47	0.40
31:B6:26:ASN:ND2	31:B6:32:ASN:OD1	2.54	0.40
31:B6:27:LYS:HG3	31:B6:30:THR:OG1	2.21	0.40
34:B9:23:VAL:HG23	34:B9:36:GLN:OE1	2.22	0.40
35:BA:29:U:C4'	52:BU:11:ARG:HH22	2.34	0.40
35:BA:40:C:C4	35:BA:41:C:N4	2.88	0.40
35:BA:79:G:C6	35:BA:80:G:N7	2.90	0.40
35:BA:110:G:C2'	35:BA:111:A:H5'	2.50	0.40
35:BA:329:G:N7	56:BY:71:LYS:HE3	2.36	0.40
35:BA:382:G:H2'	35:BA:383:U:C5'	2.50	0.40
35:BA:790:C:O2'	35:BA:791:C:OP1	2.29	0.40
35:BA:940:G:C3'	35:BA:941:A:H5''	2.51	0.40
35:BA:942:G:C5'	47:BP:36:LYS:H	2.34	0.40
35:BA:1155:A:O5'	52:BU:55:ARG:NE	2.55	0.40
35:BA:1244:G:H2'	35:BA:1245:G:C8	2.55	0.40
35:BA:1247:A:O2'	35:BA:1248:G:O5'	2.36	0.40
35:BA:1266:G:O2'	35:BA:2012:G:N1	2.52	0.40
35:BA:1289:C:H4'	35:BA:1330:C:C4'	2.52	0.40
35:BA:1479:G:H2'	35:BA:1480:G:H8	1.87	0.40
35:BA:1613:G:N1	35:BA:1617:C:O2'	2.33	0.40
35:BA:1649:G:C4	35:BA:1650:G:C8	3.10	0.40
35:BA:1654:A:H2'	35:BA:1655:A:H8	1.86	0.40
35:BA:1756:G:O5'	35:BA:1756:G:C8	2.74	0.40
35:BA:1799:G:OP1	38:BD:260:ARG:CB	2.69	0.40
35:BA:1835:G:H5''	35:BA:1836:C:OP2	2.21	0.40
35:BA:1858:G:H22	35:BA:1883:G:H2'	1.85	0.40
35:BA:1981:A:H5''	35:BA:1982:C:OP2	2.21	0.40
35:BA:2111:C:O2	35:BA:2111:C:C2'	2.70	0.40
35:BA:2162:G:C2	35:BA:2163:C:C5	3.09	0.40
35:BA:2222:G:H1'	38:BD:151:LYS:HZ2	1.86	0.40
35:BA:2320:A:C2	35:BA:2333:A:C8	3.09	0.40
35:BA:2435:A:C2'	35:BA:2436:G:O5'	2.69	0.40
35:BA:2450:A:C2'	35:BA:2451:A:H5'	2.51	0.40
35:BA:2562:U:H2'	35:BA:2563:U:C5'	2.47	0.40
35:BA:2603:G:C2	35:BA:2604:U:H1'	2.55	0.40
35:BA:2687:U:C5	35:BA:2688:U:C4	3.09	0.40
35:BA:2749:A:OP2	35:BA:2751:G:H5''	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2790:A:H2	35:BA:2791:C:H3'	1.86	0.40
36:BB:34:U:H5''	36:BB:35:U:OP1	2.21	0.40
36:BB:87:G:C2'	36:BB:88:C:H5''	2.50	0.40
37:BC:115:ALA:CB	37:BC:120:MET:CE	2.95	0.40
38:BD:87:ASN:CB	38:BD:88:ARG:CZ	2.86	0.40
38:BD:193:VAL:HG12	38:BD:193:VAL:H	1.58	0.40
38:BD:200:ASP:OD1	38:BD:200:ASP:C	2.64	0.40
38:BD:209:ALA:O	38:BD:212:SER:N	2.55	0.40
38:BD:214:TRP:C	38:BD:216:GLY:H	2.29	0.40
40:BF:33:LEU:CD1	40:BF:109:GLY:O	2.68	0.40
40:BF:103:LYS:O	40:BF:107:LYS:HG2	2.21	0.40
40:BF:155:LEU:HD12	40:BF:156:LEU:H	1.86	0.40
40:BF:205:ARG:O	40:BF:205:ARG:HG2	2.21	0.40
41:BG:7:LEU:HD11	41:BG:107:LEU:HD12	2.02	0.40
41:BG:51:ARG:HH12	41:BG:53:LEU:HD11	1.86	0.40
41:BG:123:ASN:HB2	41:BG:126:ASP:CG	2.46	0.40
42:BH:148:ILE:C	42:BH:151:ILE:CD1	2.94	0.40
46:BO:27:GLY:C	46:BO:29:ASN:H	2.28	0.40
47:BP:32:THR:O	47:BP:33:ARG:C	2.64	0.40
47:BP:99:LEU:O	47:BP:100:LEU:C	2.63	0.40
48:BQ:34:LEU:HD13	48:BQ:118:LEU:HB3	2.03	0.40
50:BS:58:LEU:HD23	50:BS:65:VAL:CG1	2.50	0.40
53:BV:61:VAL:HG23	53:BV:61:VAL:O	2.21	0.40
57:BZ:48:PHE:HD1	57:BZ:48:PHE:HA	1.64	0.40
57:BZ:48:PHE:CZ	57:BZ:74:VAL:HG21	2.55	0.40
1:AA:32:A:OP1	1:AA:398:C:C1'	2.64	0.40
1:AA:172:A:N7	1:AA:174:C:C5	2.89	0.40
1:AA:188:C:H4'	20:AT:89:ARG:NH1	2.36	0.40
1:AA:274:A:H4'	1:AA:275:G:OP1	2.20	0.40
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.57	0.40
1:AA:448:A:OP2	1:AA:485:G:N1	2.54	0.40
1:AA:587:G:N2	1:AA:755:G:C4	2.90	0.40
1:AA:688:G:H8	1:AA:688:G:H5''	1.86	0.40
1:AA:739:C:C2	1:AA:740:U:C6	3.10	0.40
1:AA:1020:U:O2'	1:AA:1021:G:H5'	2.20	0.40
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.51	0.40
1:AA:1128:C:H41	1:AA:1139:G:H2'	1.86	0.40
1:AA:1148:U:O2'	1:AA:1149:C:H5'	2.21	0.40
1:AA:1149:C:C4	1:AA:1150:U:C4	3.10	0.40
1:AA:1197:G:OP1	1:AA:1198:G:OP2	2.39	0.40
1:AA:1204:A:C2	1:AA:1205:U:C2	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1205:U:O2	1:AA:1205:U:H2'	2.21	0.40
1:AA:1216:G:OP1	14:AN:2:ALA:HB3	2.21	0.40
1:AA:1250:A:C2	1:AA:1370:G:H1'	2.57	0.40
1:AA:1357:A:O2'	14:AN:34:TYR:HE1	2.03	0.40
1:AA:1407:C:N4	1:AA:1408:A:N6	2.69	0.40
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.22	0.40
2:AB:81:VAL:O	2:AB:82:ARG:C	2.64	0.40
2:AB:139:LYS:O	2:AB:143:GLU:HG3	2.21	0.40
2:AB:152:PHE:C	2:AB:153:ARG:HG2	2.47	0.40
3:AC:50:ALA:HB2	3:AC:75:VAL:HB	2.04	0.40
4:AD:107:ARG:HH12	4:AD:114:ARG:HH22	1.67	0.40
5:AE:35:GLY:HA3	5:AE:40:ARG:O	2.22	0.40
8:AH:9:MET:C	8:AH:11:THR:N	2.78	0.40
10:AJ:4:ILE:CD1	10:AJ:4:ILE:N	2.84	0.40
11:AK:92:GLU:C	11:AK:94:ALA:N	2.77	0.40
12:AL:75:HIS:CD2	12:AL:77:LEU:N	2.88	0.40
13:AM:3:ARG:O	13:AM:4:ILE:CG1	2.69	0.40
13:AM:52:GLU:O	13:AM:53:VAL:C	2.65	0.40
17:AQ:27:PHE:HA	17:AQ:28:PRO:HD3	1.81	0.40
18:AR:56:THR:C	18:AR:58:LEU:H	2.29	0.40
19:AS:47:HIS:NE2	29:B4:47:GLN:CB	2.83	0.40
19:AS:49:ILE:O	19:AS:58:VAL:O	2.39	0.40
20:AT:73:HIS:CG	20:AT:74:LYS:HD3	2.56	0.40
22:AV:11:A:C2	22:AV:12:G:H1'	2.56	0.40
23:AX:14:A:H2'	23:AX:15:A:C4'	2.51	0.40
24:AY:16:PHE:CZ	24:AY:86:LEU:HB2	2.56	0.40
24:AY:403:LEU:HA	24:AY:461:ALA:HA	2.03	0.40
26:B1:62:VAL:HG22	26:B1:63:ALA:N	2.36	0.40
28:B3:35:ARG:HH11	28:B3:35:ARG:HB2	1.86	0.40
30:B5:15:ARG:C	30:B5:18:ALA:HB3	2.45	0.40
31:B6:32:ASN:O	31:B6:33:LYS:HB2	2.21	0.40
32:B7:10:ARG:NE	35:BA:770:G:H5''	2.37	0.40
32:B7:47:ARG:HE	32:B7:47:ARG:HB2	1.71	0.40
33:B8:10:ALA:O	33:B8:13:ARG:CG	2.65	0.40
34:B9:10:ILE:HD12	34:B9:14:CYS:SG	2.61	0.40
34:B9:23:VAL:HG21	34:B9:36:GLN:HE22	1.87	0.40
35:BA:122:G:C4	35:BA:123:G:C8	3.09	0.40
35:BA:239:U:C4	35:BA:240:G:C6	3.09	0.40
35:BA:302:C:N4	35:BA:303:U:O4	2.55	0.40
35:BA:442:G:N3	40:BF:48:THR:OG1	2.48	0.40
35:BA:480:A:OP2	56:BY:46:LYS:NZ	2.46	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:712:G:C2'	35:BA:713:G:H5'	2.51	0.40
35:BA:722:A:H2'	35:BA:723:G:H8	1.86	0.40
35:BA:835:A:N6	35:BA:836:G:C6	2.89	0.40
35:BA:950:G:C4	35:BA:951:C:C6	3.09	0.40
35:BA:1075:C:N4	35:BA:1076:C:N4	2.68	0.40
35:BA:1091:G:H2'	35:BA:1092:C:C6	2.56	0.40
35:BA:1275:A:N6	49:BR:16:HIS:CA	2.78	0.40
35:BA:1485:G:N2	35:BA:1505:C:C6	2.82	0.40
35:BA:1676:A:C2'	35:BA:1677:A:C8	2.89	0.40
35:BA:1845:G:C4	35:BA:1846:G:C8	3.10	0.40
35:BA:1858:G:C6	35:BA:1883:G:C5	3.09	0.40
35:BA:2060:A:C2	35:BA:2502:G:C5	3.09	0.40
35:BA:2132:U:O4	37:BC:5:LYS:HG2	2.20	0.40
35:BA:2208:A:H1'	35:BA:2219:G:N7	2.33	0.40
35:BA:2245:U:C5'	35:BA:2246:G:H5'	2.52	0.40
35:BA:2301:C:C2	35:BA:2302:G:C8	3.10	0.40
35:BA:2323:G:C6	35:BA:2324:C:C4	3.09	0.40
35:BA:2325:G:C6	35:BA:2326:C:C4	3.09	0.40
35:BA:2359:C:C6	35:BA:2360:A:N7	2.89	0.40
35:BA:2360:A:O2'	35:BA:2361:A:C8	2.75	0.40
35:BA:2376:A:O2'	35:BA:2377:A:H5'	2.21	0.40
35:BA:2457:U:C2'	35:BA:2458:G:H5'	2.52	0.40
35:BA:2474:C:H5'	35:BA:2475:C:OP2	2.21	0.40
35:BA:2588:G:N7	35:BA:2589:A:N7	2.69	0.40
35:BA:2801(A):A:C3'	35:BA:2802:G:H5'	2.50	0.40
36:BB:23:G:H2'	36:BB:24:G:C8	2.56	0.40
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.86	0.40
38:BD:171:ASP:O	38:BD:172:TYR:HD1	2.03	0.40
38:BD:175:LEU:HD22	38:BD:175:LEU:HA	1.82	0.40
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	3.04	0.40
41:BG:38:VAL:HA	41:BG:93:THR:HA	2.03	0.40
41:BG:106:LEU:HD21	41:BG:157:ILE:CD1	2.51	0.40
42:BH:52:VAL:HG13	42:BH:53:GLU:N	2.34	0.40
45:BN:58:ASP:O	45:BN:60:ILE:HG13	2.22	0.40
49:BR:56:LYS:HE2	49:BR:88:ARG:C	2.44	0.40
49:BR:97:VAL:O	49:BR:98:LEU:HD23	2.22	0.40
54:BW:73:ALA:HB3	54:BW:106:ILE:CG1	2.52	0.40
57:BZ:5:LEU:HB3	57:BZ:59:LEU:HD23	2.03	0.40
57:BZ:13:GLU:O	57:BZ:14:LYS:C	2.65	0.40
57:BZ:136:PHE:O	57:BZ:137:ILE:HD13	2.21	0.40
1:AA:349:A:H2'	1:AA:350:G:C8	2.57	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:353:A:C2'	1:AA:354:G:OP2	2.70	0.40
1:AA:423:G:H2'	1:AA:424:G:H5'	2.04	0.40
1:AA:437:U:HO2'	4:AD:123:HIS:CE1	2.39	0.40
1:AA:571:U:OP1	1:AA:819:A:O2'	2.39	0.40
1:AA:683:G:C5	1:AA:684:A:C5	3.10	0.40
1:AA:796:C:C2	1:AA:797:C:C6	3.09	0.40
1:AA:808:C:C2	1:AA:809:G:C8	3.09	0.40
1:AA:918:A:H62	1:AA:919:A:N6	2.18	0.40
1:AA:932:C:H5'	7:AG:4:ARG:HG3	2.02	0.40
1:AA:944:G:N2	1:AA:1338:G:C8	2.89	0.40
1:AA:1059:C:H2'	1:AA:1060:C:H6	1.85	0.40
1:AA:1133:G:C2	1:AA:1142:G:N1	2.89	0.40
1:AA:1302:U:O2	13:AM:27:LYS:NZ	2.45	0.40
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	2.02	0.40
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.86	0.40
1:AA:1413:A:N6	1:AA:1488:G:C6	2.89	0.40
1:AA:1436:U:H6	1:AA:1436:U:O5'	2.04	0.40
2:AB:55:PHE:CE1	2:AB:218:ALA:CB	3.04	0.40
2:AB:100:GLY:O	2:AB:104:ASN:C	2.65	0.40
2:AB:136:VAL:O	2:AB:136:VAL:HG12	2.21	0.40
2:AB:219:VAL:C	2:AB:222:ILE:HG12	2.47	0.40
3:AC:67:THR:HG1	3:AC:102:ASN:HD22	1.64	0.40
4:AD:3:ARG:NH1	4:AD:118:ARG:HD3	2.36	0.40
4:AD:67:ILE:O	4:AD:67:ILE:CG2	2.66	0.40
4:AD:92:VAL:O	4:AD:96:LEU:CD1	2.66	0.40
4:AD:96:LEU:HA	4:AD:99:SER:OG	2.21	0.40
4:AD:163:GLU:O	4:AD:166:LYS:HG3	2.22	0.40
5:AE:107:ARG:O	5:AE:110:LEU:N	2.54	0.40
6:AF:74:ASP:CB	6:AF:77:ARG:HH21	2.20	0.40
7:AG:145:ALA:O	7:AG:146:GLU:C	2.65	0.40
9:AI:42:ARG:NH1	9:AI:42:ARG:HG2	2.37	0.40
10:AJ:34:VAL:CG1	10:AJ:35:SER:N	2.85	0.40
10:AJ:45:ARG:HG3	10:AJ:45:ARG:HH11	1.86	0.40
12:AL:93:LEU:HB2	12:AL:96:VAL:CG2	2.51	0.40
12:AL:108:ALA:O	12:AL:109:GLY:O	2.39	0.40
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.36	0.40
15:AO:14:GLU:HG2	15:AO:15:PHE:CE1	2.57	0.40
15:AO:62:GLN:O	15:AO:66:LEU:HG	2.21	0.40
15:AO:62:GLN:HA	15:AO:65:ARG:HD2	2.04	0.40
18:AR:31:LEU:HD23	18:AR:31:LEU:N	2.35	0.40
18:AR:69:THR:O	18:AR:72:ARG:N	2.55	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:231:LEU:HA	24:AY:234:VAL:HG23	2.03	0.40
24:AY:280:MET:HB3	24:AY:281:PRO:HD2	2.04	0.40
24:AY:286:THR:OG1	24:AY:287:ARG:N	2.54	0.40
24:AY:332:ARG:HA	24:AY:339:ASP:OD1	2.21	0.40
24:AY:395:PRO:CA	24:AY:440:ALA:O	2.69	0.40
25:B0:80:HIS:CD2	25:B0:80:HIS:H	2.38	0.40
27:B2:13:ALA:HA	27:B2:16:LEU:HB2	2.03	0.40
27:B2:29:LYS:HD3	27:B2:57:ILE:CD1	2.51	0.40
33:B8:10:ALA:O	33:B8:11:LYS:C	2.64	0.40
33:B8:13:ARG:CD	47:BP:61:ARG:HD3	2.46	0.40
33:B8:52:LYS:O	33:B8:53:PRO:C	2.64	0.40
35:BA:65:C:H42	35:BA:89:G:H1	1.70	0.40
35:BA:111:A:H2'	35:BA:112:U:H6	1.81	0.40
35:BA:334:C:P	35:BA:335:C:N4	2.94	0.40
35:BA:531:C:N3	35:BA:563:G:C8	2.90	0.40
35:BA:548:A:H2'	35:BA:549:G:H5'	2.03	0.40
35:BA:557:U:H5'	45:BN:111:PRO:HB2	2.04	0.40
35:BA:750:A:OP1	35:BA:1615:C:N4	2.54	0.40
35:BA:999:U:C5	35:BA:1154:G:C4	2.99	0.40
35:BA:1022:G:N7	35:BA:1140:C:C4	2.89	0.40
35:BA:1069:A:C2	35:BA:1096:A:H4'	2.57	0.40
35:BA:1234:U:H2'	35:BA:1235:G:O4'	2.22	0.40
35:BA:1265:A:H2	35:BA:1266:G:N2	2.18	0.40
35:BA:1476:C:H6	35:BA:1476:C:H3'	1.87	0.40
35:BA:1494:A:N3	35:BA:1494:A:C5'	2.82	0.40
35:BA:1566:A:OP1	38:BD:211:ARG:NH1	2.54	0.40
35:BA:1654:A:H2'	35:BA:1655:A:C8	2.55	0.40
35:BA:1656:C:H2'	35:BA:1657:C:C5	2.57	0.40
35:BA:1817:G:OP1	38:BD:88:ARG:NH2	2.54	0.40
35:BA:1926:U:N3	35:BA:1929:G:N1	2.68	0.40
35:BA:1952:A:H2'	35:BA:1953:A:C8	2.56	0.40
35:BA:2318:G:H2'	35:BA:2319:G:OP1	2.20	0.40
35:BA:2432:A:C2	35:BA:2433:A:C4	3.10	0.40
35:BA:2461:C:H1'	35:BA:2492:U:N3	2.37	0.40
35:BA:2631:G:H1	39:BE:61:ARG:NH1	2.18	0.40
36:BB:116:G:H2'	36:BB:117:G:C8	2.57	0.40
37:BC:103:ILE:HG23	37:BC:107:TRP:CE2	2.56	0.40
38:BD:68:LYS:CB	38:BD:70:TRP:CZ3	3.04	0.40
38:BD:80:ALA:HB3	38:BD:94:LEU:HD13	2.04	0.40
40:BF:37:VAL:O	40:BF:39:TRP:N	2.54	0.40
40:BF:81:PRO:O	40:BF:82:ILE:C	2.65	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:45:GLU:HA	41:BG:47:LYS:HE2	2.02	0.40
42:BH:41:MET:O	42:BH:42:ARG:HB2	2.21	0.40
45:BN:68:GLU:HG3	45:BN:88:GLU:HG3	2.04	0.40
45:BN:131:GLN:HE22	45:BN:134:ARG:HG2	1.85	0.40
45:BN:133:GLN:HG2	45:BN:134:ARG:N	2.36	0.40
46:BO:24:VAL:CG2	46:BO:30:ALA:O	2.67	0.40
47:BP:108:LYS:C	47:BP:110:TYR:H	2.29	0.40
48:BQ:10:ARG:HH11	48:BQ:10:ARG:CB	2.14	0.40
48:BQ:121:ALA:O	48:BQ:125:LEU:CD2	2.69	0.40
48:BQ:128:LYS:C	48:BQ:129:THR:HG23	2.46	0.40
49:BR:32:GLY:O	49:BR:115:GLU:HA	2.21	0.40
50:BS:53:SER:H	50:BS:55:ALA:CB	2.33	0.40
50:BS:89:ARG:CG	50:BS:92:TYR:CA	3.00	0.40
51:BT:113:LYS:HA	51:BT:113:LYS:HD3	1.74	0.40
52:BU:75:ASN:O	52:BU:76:TYR:O	2.39	0.40
53:BV:19:LYS:HB2	53:BV:96:ILE:CD1	2.51	0.40
54:BW:52:GLU:N	54:BW:52:GLU:OE1	2.55	0.40
55:BX:54:VAL:O	55:BX:54:VAL:HG12	2.20	0.40
55:BX:92:LEU:O	55:BX:93:GLU:C	2.62	0.40
56:BY:26:LYS:HB3	56:BY:27:VAL:H	1.57	0.40
57:BZ:23:LYS:HD3	57:BZ:38:TYR:CZ	2.56	0.40
57:BZ:28:MET:O	57:BZ:28:MET:SD	2.80	0.40
1:AA:234:C:O2'	1:AA:235:C:H5'	2.22	0.40
1:AA:363:A:N1	1:AA:364:A:C2	2.90	0.40
1:AA:510:A:O2'	1:AA:542:G:O2'	2.39	0.40
1:AA:517:G:H4'	1:AA:519:C:C4	2.57	0.40
1:AA:795:C:H5'	1:AA:1522:U:OP1	2.21	0.40
1:AA:1001(A):G:C8	1:AA:1002:G:N7	2.90	0.40
1:AA:1029:C:O2'	1:AA:1030:C:C5	2.67	0.40
1:AA:1151:A:O2'	1:AA:1152:A:H8	2.04	0.40
1:AA:1241:G:C6	1:AA:1242:C:N4	2.89	0.40
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.20	0.40
2:AB:102:LEU:O	2:AB:105:PHE:CA	2.70	0.40
3:AC:5:ILE:HD13	3:AC:5:ILE:H	1.87	0.40
3:AC:157:ILE:HD12	3:AC:164:ARG:HB2	2.03	0.40
5:AE:7:GLU:O	5:AE:8:GLU:CB	2.68	0.40
5:AE:70:PRO:CD	5:AE:142:LEU:HB3	2.50	0.40
5:AE:91:LEU:CD1	5:AE:120:THR:CB	2.99	0.40
6:AF:61:LEU:HD22	6:AF:63:TYR:OH	2.21	0.40
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.43	0.40
11:AK:106:LYS:O	11:AK:107:SER:HB3	2.19	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:26:GLU:H	15:AO:26:GLU:HG2	1.58	0.40
18:AR:55:ARG:HA	18:AR:55:ARG:HD2	1.89	0.40
22:AV:47:U:H2'	22:AV:50:U:OP1	2.21	0.40
22:AV:57:A:O5'	22:AV:57:A:H8	2.04	0.40
24:AY:263:PHE:CD2	24:AY:264:GLY:N	2.86	0.40
24:AY:305:ALA:CB	24:AY:422:GLU:HB3	2.52	0.40
29:B4:27:THR:HG23	41:BG:143:GLU:OE1	2.22	0.40
30:B5:9:LYS:O	30:B5:11:THR:N	2.54	0.40
31:B6:26:ASN:O	31:B6:27:LYS:CB	2.69	0.40
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.55	0.40
32:B7:39:ARG:HD3	35:BA:458:G:O2'	2.22	0.40
33:B8:4:MET:O	33:B8:62:LEU:CD1	2.66	0.40
34:B9:16:VAL:HG11	35:BA:1032:A:C4'	2.48	0.40
35:BA:77:C:H6	35:BA:77:C:O5'	2.04	0.40
35:BA:85:G:C6	35:BA:98:G:C2	3.10	0.40
35:BA:183:C:O2	35:BA:215:G:N2	2.54	0.40
35:BA:269:U:C5	35:BA:271(Y):U:C6	3.09	0.40
35:BA:310:A:O2'	35:BA:311:A:C3'	2.69	0.40
35:BA:372:G:O3'	35:BA:373:U:C6	2.75	0.40
35:BA:510:C:O2'	35:BA:511:U:H5'	2.21	0.40
35:BA:533:G:H5'	52:BU:24:TYR:CD1	2.57	0.40
35:BA:543:C:N3	35:BA:551:G:C2	2.90	0.40
35:BA:570:G:C6	35:BA:2030:A:C2	3.09	0.40
35:BA:647:G:C6	35:BA:648:G:C5	3.10	0.40
35:BA:660:G:C6	35:BA:661:C:C4	3.10	0.40
35:BA:691:C:H5'	38:BD:218:ARG:NH1	2.37	0.40
35:BA:739:G:H1'	35:BA:740:U:H5	1.87	0.40
35:BA:909:A:C2	35:BA:912:C:C2	3.09	0.40
35:BA:1112:G:H2'	35:BA:1113:U:C6	2.56	0.40
35:BA:1286:A:N6	35:BA:1289:C:C2	2.89	0.40
35:BA:1556:C:C2'	35:BA:1557:C:H5'	2.52	0.40
35:BA:1823:G:C6	35:BA:1824:G:N7	2.89	0.40
35:BA:1973:G:C6	35:BA:1974:C:C4	3.09	0.40
35:BA:2124:G:H3'	35:BA:2125:G:C8	2.53	0.40
35:BA:2284:C:C4	35:BA:2285:C:C5	3.10	0.40
35:BA:2431:U:C4	35:BA:2434:A:OP2	2.75	0.40
35:BA:2464:C:O2'	35:BA:2465:C:O5'	2.35	0.40
35:BA:2572:A:C8	39:BE:144:ARG:HG2	2.57	0.40
35:BA:2760:C:H3'	35:BA:2761:G:H5''	2.04	0.40
35:BA:2787:C:O2	39:BE:61:ARG:CD	2.68	0.40
37:BC:68:LEU:HD13	37:BC:70:LYS:HB3	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:92:ILE:HA	38:BD:106:ILE:C	2.46	0.40
38:BD:123:ALA:HA	38:BD:124:PRO:HD3	1.34	0.40
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	2.01	0.40
41:BG:83:ARG:CB	41:BG:84:LYS:HD2	2.49	0.40
41:BG:151:ALA:HB3	41:BG:153:ARG:HH11	1.85	0.40
47:BP:16:ARG:CD	47:BP:17:LYS:N	2.85	0.40
47:BP:59:LEU:CA	47:BP:61:ARG:NE	2.74	0.40
47:BP:96:THR:O	47:BP:99:LEU:HB2	2.21	0.40
47:BP:125:VAL:O	47:BP:145:PRO:HD2	2.22	0.40
47:BP:147:LEU:HG	47:BP:148:LEU:H	1.86	0.40
48:BQ:120:ILE:C	48:BQ:122:GLY:N	2.79	0.40
51:BT:44:ASP:O	51:BT:45:PHE:HB2	2.22	0.40
51:BT:50:ILE:N	51:BT:50:ILE:CD1	2.84	0.40
52:BU:59:ARG:HG2	52:BU:59:ARG:NH1	2.37	0.40
52:BU:112:ARG:HH12	53:BV:46:VAL:CB	2.34	0.40
52:BU:112:ARG:HH22	53:BV:46:VAL:CG1	2.35	0.40
57:BZ:28:MET:O	57:BZ:29:TYR:CB	2.68	0.40
57:BZ:99:TYR:CE1	57:BZ:125:LEU:CD1	3.03	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:62:ALA:O	37:BC:30:LYS:O[2_656]	2.18	0.02

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	AB	233/256 (91%)	110 (47%)	62 (27%)	61 (26%)	0 0
3	AC	205/239 (86%)	134 (65%)	39 (19%)	32 (16%)	0 2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AD	206/209 (99%)	131 (64%)	51 (25%)	24 (12%)	0	4
5	AE	149/162 (92%)	108 (72%)	31 (21%)	10 (7%)	1	13
6	AF	99/101 (98%)	67 (68%)	24 (24%)	8 (8%)	1	10
7	AG	153/156 (98%)	85 (56%)	44 (29%)	24 (16%)	0	2
8	AH	136/138 (99%)	94 (69%)	26 (19%)	16 (12%)	0	4
9	AI	125/128 (98%)	78 (62%)	28 (22%)	19 (15%)	0	2
10	AJ	97/105 (92%)	60 (62%)	23 (24%)	14 (14%)	0	3
11	AK	117/129 (91%)	72 (62%)	32 (27%)	13 (11%)	0	5
12	AL	123/135 (91%)	66 (54%)	33 (27%)	24 (20%)	0	1
13	AM	123/126 (98%)	63 (51%)	31 (25%)	29 (24%)	0	0
14	AN	58/61 (95%)	33 (57%)	12 (21%)	13 (22%)	0	1
15	AO	86/89 (97%)	59 (69%)	21 (24%)	6 (7%)	1	12
16	AP	82/88 (93%)	55 (67%)	17 (21%)	10 (12%)	0	4
17	AQ	98/105 (93%)	82 (84%)	10 (10%)	6 (6%)	1	14
18	AR	68/88 (77%)	37 (54%)	18 (26%)	13 (19%)	0	1
19	AS	77/93 (83%)	42 (54%)	18 (23%)	17 (22%)	0	1
20	AT	97/106 (92%)	46 (47%)	32 (33%)	19 (20%)	0	1
21	AU	23/27 (85%)	11 (48%)	8 (35%)	4 (17%)	0	2
24	AY	488/529 (92%)	314 (64%)	88 (18%)	86 (18%)	0	2
25	B0	82/85 (96%)	64 (78%)	9 (11%)	9 (11%)	0	5
26	B1	92/98 (94%)	63 (68%)	16 (17%)	13 (14%)	0	3
27	B2	69/72 (96%)	38 (55%)	22 (32%)	9 (13%)	0	3
28	B3	58/60 (97%)	38 (66%)	15 (26%)	5 (9%)	0	9
29	B4	43/71 (61%)	26 (60%)	9 (21%)	8 (19%)	0	1
30	B5	57/60 (95%)	34 (60%)	11 (19%)	12 (21%)	0	1
31	B6	48/54 (89%)	18 (38%)	16 (33%)	14 (29%)	0	0
32	B7	47/49 (96%)	29 (62%)	10 (21%)	8 (17%)	0	2
33	B8	62/65 (95%)	30 (48%)	16 (26%)	16 (26%)	0	0
34	B9	35/37 (95%)	19 (54%)	10 (29%)	6 (17%)	0	2
37	BC	226/229 (99%)	158 (70%)	39 (17%)	29 (13%)	0	3
38	BD	273/276 (99%)	195 (71%)	46 (17%)	32 (12%)	0	4

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	BE	203/206 (98%)	99 (49%)	48 (24%)	56 (28%)	0	0
40	BF	206/210 (98%)	134 (65%)	35 (17%)	37 (18%)	0	2
41	BG	179/182 (98%)	95 (53%)	47 (26%)	37 (21%)	0	1
42	BH	154/180 (86%)	111 (72%)	23 (15%)	20 (13%)	0	3
43	BJ	1/173 (1%)	1 (100%)	0	0	100	100
45	BN	137/140 (98%)	78 (57%)	28 (20%)	31 (23%)	0	0
46	BO	120/122 (98%)	84 (70%)	23 (19%)	13 (11%)	0	5
47	BP	144/150 (96%)	70 (49%)	37 (26%)	37 (26%)	0	0
48	BQ	139/141 (99%)	79 (57%)	40 (29%)	20 (14%)	0	3
49	BR	115/118 (98%)	69 (60%)	27 (24%)	19 (16%)	0	2
50	BS	97/112 (87%)	41 (42%)	23 (24%)	33 (34%)	0	0
51	BT	136/146 (93%)	75 (55%)	31 (23%)	30 (22%)	0	1
52	BU	115/118 (98%)	59 (51%)	27 (24%)	29 (25%)	0	0
53	BV	99/101 (98%)	56 (57%)	21 (21%)	22 (22%)	0	1
54	BW	111/113 (98%)	72 (65%)	25 (22%)	14 (13%)	0	4
55	BX	91/96 (95%)	55 (60%)	27 (30%)	9 (10%)	0	7
56	BY	99/110 (90%)	33 (33%)	36 (36%)	30 (30%)	0	0
57	BZ	174/206 (84%)	88 (51%)	48 (28%)	38 (22%)	0	1
All	All	6255/6850 (91%)	3758 (60%)	1413 (23%)	1084 (17%)	0	2

All (1084) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	9	GLU
2	AB	15	VAL
2	AB	18	GLY
2	AB	19	HIS
2	AB	24	TRP
2	AB	31	TYR
2	AB	75	LYS
2	AB	93	VAL
2	AB	103	THR
2	AB	105	PHE
2	AB	106	LYS
2	AB	147	LYS
2	AB	153	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AB	181	PHE
2	AB	190	THR
2	AB	194	PRO
2	AB	195	ASP
2	AB	209	ARG
2	AB	213	LEU
2	AB	223	ILE
2	AB	229	VAL
2	AB	236	TYR
2	AB	238	LEU
3	AC	12	LEU
3	AC	49	SER
3	AC	54	ARG
3	AC	55	VAL
3	AC	120	VAL
3	AC	121	ALA
3	AC	129	ALA
3	AC	154	SER
3	AC	207	VAL
4	AD	4	TYR
4	AD	5	ILE
4	AD	13	ARG
4	AD	14	ARG
4	AD	30	LYS
4	AD	32	ALA
4	AD	43	HIS
4	AD	125	HIS
4	AD	144	ASP
4	AD	186	LEU
4	AD	189	PRO
5	AE	48	ALA
5	AE	64	ARG
5	AE	65	ASN
6	AF	31	GLU
6	AF	32	ASN
6	AF	64	GLN
7	AG	120	ILE
8	AH	6	ILE
8	AH	10	LEU
8	AH	35	ILE
8	AH	91	ARG
9	AI	34	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	AI	58	ARG
9	AI	89	ASN
9	AI	95	LYS
9	AI	119	ALA
10	AJ	32	ALA
10	AJ	55	LYS
10	AJ	79	ARG
10	AJ	90	LEU
12	AL	7	ILE
12	AL	18	VAL
12	AL	27	LEU
12	AL	41	ARG
12	AL	42	THR
12	AL	47	LYS
12	AL	71	PRO
12	AL	92	ASP
12	AL	94	PRO
12	AL	115	LYS
12	AL	120	TYR
12	AL	122	THR
13	AM	4	ILE
13	AM	7	VAL
13	AM	12	ASN
13	AM	28	ALA
13	AM	44	ARG
13	AM	53	VAL
13	AM	60	VAL
13	AM	71	ARG
13	AM	83	ASP
13	AM	91	ARG
13	AM	104	ARG
13	AM	124	PRO
13	AM	125	ARG
14	AN	14	PRO
14	AN	15	LYS
14	AN	16	PHE
14	AN	26	ARG
14	AN	41	ARG
14	AN	56	VAL
14	AN	58	LYS
15	AO	26	GLU
16	AP	28	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	AP	45	THR
17	AQ	4	LYS
17	AQ	14	LYS
17	AQ	27	PHE
18	AR	45	SER
18	AR	60	ALA
19	AS	5	LEU
19	AS	9	VAL
19	AS	61	TYR
19	AS	62	ILE
19	AS	76	PRO
20	AT	50	GLU
20	AT	61	SER
20	AT	97	ALA
20	AT	98	PRO
20	AT	99	LEU
21	AU	6	ARG
24	AY	13	ARG
24	AY	23	ASP
24	AY	73	SER
24	AY	88	ASP
24	AY	90	PRO
24	AY	104	THR
24	AY	106	VAL
24	AY	137	ILE
24	AY	154	LEU
24	AY	163	LYS
24	AY	201	ILE
24	AY	208	LYS
24	AY	210	LEU
24	AY	237	ALA
24	AY	248	ALA
24	AY	283	GLN
24	AY	304	GLN
24	AY	305	ALA
24	AY	306	ASN
24	AY	309	PRO
24	AY	315	VAL
24	AY	317	PHE
24	AY	327	LYS
24	AY	337	ALA
24	AY	343	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	AY	357	GLU
24	AY	390	ILE
24	AY	392	ASN
24	AY	393	PHE
24	AY	431	ILE
24	AY	444	LEU
24	AY	499	ASP
25	B0	20	ARG
25	B0	42	GLY
26	B1	30	VAL
26	B1	52	ARG
26	B1	54	ALA
26	B1	64	ALA
26	B1	83	GLU
26	B1	85	LEU
26	B1	91	LYS
27	B2	17	SER
27	B2	50	ILE
27	B2	58	ALA
28	B3	16	PRO
29	B4	26	SER
30	B5	4	HIS
30	B5	20	ARG
30	B5	24	ALA
30	B5	25	LEU
30	B5	35	GLU
30	B5	49	CYS
31	B6	16	CYS
31	B6	17	LYS
31	B6	18	ARG
31	B6	20	ASN
31	B6	27	LYS
31	B6	28	ARG
31	B6	29	ASN
31	B6	46	HIS
31	B6	52	VAL
32	B7	2	LYS
32	B7	11	LYS
33	B8	7	HIS
33	B8	31	HIS
33	B8	33	ASN
33	B8	34	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	B8	35	GLN
33	B8	37	SER
33	B8	50	LEU
33	B8	55	ALA
33	B8	61	LEU
34	B9	11	CYS
34	B9	17	ILE
34	B9	31	LYS
34	B9	33	LYS
37	BC	58	VAL
37	BC	59	ARG
37	BC	71	GLN
37	BC	78	ALA
37	BC	95	GLY
37	BC	97	GLU
37	BC	105	ASP
37	BC	109	ASP
37	BC	135	GLY
37	BC	142	ALA
37	BC	149	ILE
37	BC	164	ARG
37	BC	167	LYS
37	BC	168	THR
37	BC	177	LYS
37	BC	181	PRO
37	BC	223	ARG
38	BD	19	ALA
38	BD	27	THR
38	BD	37	LEU
38	BD	41	GLY
38	BD	53	PHE
38	BD	64	ILE
38	BD	125	ILE
38	BD	211	ARG
38	BD	226	MET
39	BE	2	LYS
39	BE	4	ILE
39	BE	35	GLN
39	BE	45	THR
39	BE	46	ALA
39	BE	56	PRO
39	BE	60	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BE	64	LYS
39	BE	66	HIS
39	BE	69	LYS
39	BE	77	ILE
39	BE	82	ARG
39	BE	83	ASP
39	BE	88	GLY
39	BE	90	THR
39	BE	112	GLY
39	BE	113	PHE
39	BE	119	ARG
39	BE	127	ASP
39	BE	178	GLU
39	BE	189	PRO
39	BE	190	GLY
39	BE	191	PRO
40	BF	3	GLU
40	BF	7	TYR
40	BF	11	VAL
40	BF	14	PRO
40	BF	21	ALA
40	BF	24	LEU
40	BF	30	PRO
40	BF	82	ILE
40	BF	84	VAL
40	BF	91	GLY
40	BF	98	SER
41	BG	68	PRO
41	BG	74	LYS
41	BG	75	LYS
41	BG	80	PHE
41	BG	82	LEU
41	BG	86	MET
41	BG	96	ARG
41	BG	138	GLN
41	BG	143	GLU
42	BH	41	MET
42	BH	52	VAL
42	BH	84	SER
42	BH	102	ALA
42	BH	126	PRO
42	BH	129	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BH	155	SER
42	BH	160	LYS
45	BN	7	LYS
45	BN	36	GLY
45	BN	45	ASN
45	BN	58	ASP
45	BN	60	ILE
45	BN	63	THR
45	BN	68	GLU
45	BN	119	ARG
45	BN	133	GLN
45	BN	136	GLU
45	BN	137	LYS
46	BO	5	GLN
46	BO	25	LEU
46	BO	29	ASN
46	BO	48	PRO
46	BO	88	ASN
47	BP	10	PRO
47	BP	21	ARG
47	BP	30	THR
47	BP	33	ARG
47	BP	34	GLY
47	BP	36	LYS
47	BP	39	LYS
47	BP	47	ASP
47	BP	55	ARG
47	BP	65	ARG
47	BP	67	MET
47	BP	70	GLN
47	BP	71	VAL
47	BP	108	LYS
48	BQ	4	PRO
48	BQ	25	ASP
48	BQ	51	ARG
48	BQ	54	MET
48	BQ	71	ASP
48	BQ	99	PRO
49	BR	6	SER
49	BR	105	ARG
49	BR	117	VAL
50	BS	23	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	BS	24	LEU
50	BS	35	ILE
50	BS	50	SER
50	BS	59	LYS
50	BS	62	LYS
50	BS	63	THR
50	BS	72	ALA
50	BS	79	ALA
50	BS	85	VAL
50	BS	88	ASP
50	BS	94	TYR
50	BS	97	ARG
51	BT	24	PRO
51	BT	32	TYR
51	BT	69	GLY
51	BT	80	SER
51	BT	84	GLN
51	BT	88	ILE
51	BT	107	ASP
51	BT	133	GLU
52	BU	12	ARG
52	BU	20	LEU
52	BU	91	ASP
52	BU	102	GLU
53	BV	16	PRO
53	BV	19	LYS
53	BV	27	ALA
53	BV	47	VAL
53	BV	50	PRO
53	BV	51	VAL
53	BV	53	GLU
53	BV	75	PHE
54	BW	22	ASP
54	BW	65	LEU
54	BW	67	ASP
54	BW	92	ARG
54	BW	99	ARG
54	BW	111	HIS
55	BX	4	ALA
55	BX	19	ALA
55	BX	62	LYS
56	BY	17	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
56	BY	26	LYS
56	BY	37	VAL
56	BY	50	ARG
56	BY	53	PRO
56	BY	56	PRO
56	BY	64	GLU
56	BY	65	ALA
56	BY	66	PRO
56	BY	74	PRO
56	BY	76	CYS
56	BY	77	PRO
56	BY	78	ALA
56	BY	82	PRO
56	BY	91	GLU
56	BY	101	LYS
57	BZ	31	ARG
57	BZ	34	ASN
57	BZ	52	SER
57	BZ	80	ARG
57	BZ	125	LEU
57	BZ	163	LEU
57	BZ	177	PRO
2	AB	13	ALA
2	AB	54	THR
2	AB	79	ASP
2	AB	178	ARG
2	AB	211	ILE
2	AB	225	ALA
2	AB	234	PRO
3	AC	32	LEU
3	AC	82	GLU
3	AC	84	ILE
3	AC	96	GLY
3	AC	110	ASN
3	AC	141	VAL
3	AC	143	GLU
3	AC	153	VAL
3	AC	156	ARG
4	AD	9	CYS
4	AD	35	ARG
4	AD	37	PRO
4	AD	47	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	99	SER
4	AD	153	ARG
4	AD	171	GLY
4	AD	172	PRO
5	AE	56	GLN
5	AE	63	ARG
6	AF	42	GLU
7	AG	19	GLY
7	AG	22	LEU
7	AG	50	ILE
7	AG	107	ALA
7	AG	113	GLU
7	AG	119	ARG
7	AG	137	LYS
7	AG	146	GLU
8	AH	20	TYR
8	AH	49	GLU
8	AH	107	LEU
9	AI	42	ARG
9	AI	54	ASP
9	AI	100	GLY
10	AJ	36	GLY
10	AJ	51	ARG
10	AJ	57	LYS
10	AJ	66	ARG
11	AK	44	SER
11	AK	62	GLN
11	AK	73	MET
11	AK	95	ILE
12	AL	29	GLY
12	AL	76	ASN
12	AL	89	ARG
12	AL	91	LYS
13	AM	5	ALA
13	AM	10	PRO
13	AM	29	ARG
13	AM	38	GLY
13	AM	42	ALA
13	AM	58	GLU
13	AM	69	GLU
13	AM	114	ARG
13	AM	117	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AN	12	ARG
14	AN	20	ALA
14	AN	51	GLY
14	AN	59	ALA
15	AO	24	SER
15	AO	27	VAL
16	AP	13	HIS
16	AP	30	GLY
16	AP	43	LYS
16	AP	62	VAL
16	AP	76	GLN
17	AQ	34	LYS
17	AQ	78	GLU
18	AR	27	GLY
18	AR	42	ARG
18	AR	68	LYS
19	AS	10	PHE
19	AS	24	ALA
19	AS	27	GLU
19	AS	43	GLU
19	AS	73	GLU
20	AT	15	ARG
20	AT	32	ALA
20	AT	49	ALA
20	AT	94	ALA
20	AT	95	ALA
21	AU	5	ASP
21	AU	9	ARG
24	AY	12	LYS
24	AY	89	THR
24	AY	105	ALA
24	AY	108	CYS
24	AY	136	PRO
24	AY	143	LYS
24	AY	155	LEU
24	AY	196	GLY
24	AY	203	GLU
24	AY	209	GLY
24	AY	211	ASN
24	AY	221	GLU
24	AY	249	GLY
24	AY	250	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	AY	285	ASP
24	AY	295	LYS
24	AY	310	LYS
24	AY	314	ARG
24	AY	324	LYS
24	AY	385	MET
24	AY	405	ASP
24	AY	413	LEU
24	AY	416	LEU
24	AY	417	VAL
24	AY	422	GLU
24	AY	424	ALA
24	AY	425	VAL
24	AY	507	SER
24	AY	523	PHE
25	B0	8	GLY
25	B0	41	ARG
25	B0	55	ARG
25	B0	73	GLY
26	B1	79	GLY
26	B1	92	LYS
26	B1	94	LEU
28	B3	3	ARG
28	B3	33	GLN
29	B4	36	CYS
30	B5	10	LYS
30	B5	51	TYR
31	B6	31	PRO
31	B6	43	CYS
32	B7	12	ARG
32	B7	22	MET
32	B7	23	ARG
33	B8	3	LYS
33	B8	9	GLY
33	B8	46	ARG
33	B8	51	ALA
33	B8	56	GLU
34	B9	36	GLN
37	BC	45	ALA
37	BC	51	PRO
37	BC	111	ASP
37	BC	126	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BD	3	VAL
38	BD	11	PRO
38	BD	24	ILE
38	BD	25	THR
38	BD	35	LYS
38	BD	45	ASN
38	BD	52	ARG
38	BD	122	ASP
38	BD	170	GLY
38	BD	219	PRO
38	BD	236	GLY
38	BD	266	SER
38	BD	268	ARG
39	BE	19	ARG
39	BE	29	GLY
39	BE	33	VAL
39	BE	47	VAL
39	BE	68	ALA
39	BE	72	VAL
39	BE	86	PRO
39	BE	115	GLY
39	BE	130	GLY
39	BE	162	ALA
39	BE	172	VAL
39	BE	173	VAL
39	BE	179	GLU
39	BE	196	VAL
40	BF	10	PRO
40	BF	43	LYS
40	BF	54	ARG
40	BF	67	GLN
40	BF	85	GLY
40	BF	127	GLU
40	BF	132	VAL
40	BF	158	THR
40	BF	180	GLY
40	BF	204	ASN
41	BG	7	LEU
41	BG	29	TRP
41	BG	52	ILE
41	BG	79	ASN
41	BG	84	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BG	85	GLY
41	BG	87	PRO
41	BG	117	PHE
41	BG	118	ARG
41	BG	126	ASP
41	BG	129	GLY
41	BG	137	GLU
41	BG	172	LEU
41	BG	176	LEU
41	BG	181	ARG
42	BH	103	LEU
42	BH	104	GLU
42	BH	108	GLY
42	BH	118	PRO
42	BH	119	GLU
42	BH	151	ILE
42	BH	164	TYR
45	BN	8	GLN
45	BN	23	LEU
45	BN	24	GLY
45	BN	42	TRP
45	BN	46	VAL
45	BN	57	ALA
45	BN	76	SER
45	BN	98	VAL
45	BN	108	PRO
46	BO	27	GLY
46	BO	49	ARG
46	BO	68	GLU
46	BO	74	GLY
46	BO	90	GLN
47	BP	13	ASN
47	BP	32	THR
47	BP	51	PHE
47	BP	68	GLN
47	BP	81	GLN
47	BP	103	ALA
47	BP	104	GLY
47	BP	147	LEU
47	BP	148	LEU
48	BQ	55	VAL
48	BQ	56	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	BQ	57	HIS
48	BQ	67	ARG
48	BQ	106	VAL
48	BQ	107	ALA
48	BQ	112	GLU
49	BR	8	ARG
49	BR	21	TYR
49	BR	46	GLY
49	BR	68	ARG
49	BR	72	ASP
49	BR	82	GLU
49	BR	93	GLY
49	BR	102	GLU
50	BS	13	ARG
50	BS	32	LEU
50	BS	64	GLU
50	BS	90	GLY
50	BS	102	ALA
50	BS	103	GLU
51	BT	8	LYS
51	BT	12	SER
51	BT	28	VAL
51	BT	68	TYR
51	BT	78	LEU
51	BT	93	ARG
51	BT	97	ALA
51	BT	101	PHE
51	BT	111	ARG
51	BT	129	ARG
52	BU	9	VAL
52	BU	21	ALA
52	BU	27	LEU
52	BU	76	TYR
52	BU	92	ARG
52	BU	93	LYS
52	BU	97	ASP
52	BU	116	ALA
53	BV	20	LEU
53	BV	24	LYS
53	BV	44	LYS
53	BV	80	GLN
54	BW	11	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
54	BW	44	ALA
55	BX	12	VAL
55	BX	48	LYS
55	BX	87	GLN
55	BX	93	GLU
56	BY	29	GLU
56	BY	39	VAL
56	BY	80	GLY
56	BY	92	ASN
57	BZ	30	ASN
57	BZ	49	ARG
57	BZ	53	ILE
57	BZ	70	LEU
57	BZ	77	ASP
57	BZ	81	ARG
57	BZ	82	ARG
57	BZ	83	PRO
57	BZ	110	GLY
57	BZ	120	ILE
57	BZ	147	GLY
57	BZ	148	ASP
2	AB	27	LYS
2	AB	47	THR
2	AB	49	GLU
2	AB	57	PHE
2	AB	77	ALA
2	AB	130	ARG
2	AB	157	ARG
2	AB	171	ALA
2	AB	196	LEU
2	AB	216	SER
2	AB	224	GLN
2	AB	239	VAL
3	AC	93	LYS
6	AF	38	GLU
7	AG	43	PHE
7	AG	44	TYR
7	AG	53	LYS
7	AG	80	VAL
7	AG	88	PRO
7	AG	117	ALA
7	AG	136	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AG	138	LYS
8	AH	51	VAL
8	AH	104	ARG
8	AH	105	ARG
9	AI	101	PHE
9	AI	127	LYS
10	AJ	59	SER
10	AJ	83	GLU
11	AK	72	ALA
11	AK	127	LYS
12	AL	10	LEU
12	AL	19	ARG
12	AL	25	PRO
12	AL	83	VAL
13	AM	14	ARG
13	AM	43	THR
13	AM	57	ARG
15	AO	25	THR
16	AP	67	THR
17	AQ	82	MET
18	AR	54	ARG
18	AR	55	ARG
19	AS	35	SER
19	AS	44	MET
19	AS	75	ALA
21	AU	24	ARG
24	AY	10	VAL
24	AY	80	HIS
24	AY	100	TYR
24	AY	197	LYS
24	AY	260	LEU
24	AY	344	ASP
24	AY	443	VAL
24	AY	527	ARG
25	B0	18	ALA
25	B0	75	LEU
26	B1	65	SER
27	B2	66	GLU
29	B4	9	LEU
29	B4	20	ASN
29	B4	28	LYS
30	B5	21	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	B5	57	VAL
31	B6	6	ARG
33	B8	64	TYR
34	B9	2	LYS
37	BC	12	GLU
37	BC	72	VAL
37	BC	169	GLY
38	BD	23	GLU
38	BD	109	ASP
38	BD	144	ALA
38	BD	188	GLU
38	BD	243	GLY
39	BE	44	TYR
39	BE	52	LEU
39	BE	121	ASN
39	BE	124	GLY
39	BE	180	ASN
39	BE	185	LYS
39	BE	197	ILE
39	BE	204	ALA
40	BF	69	HIS
40	BF	94	PRO
40	BF	171	PRO
41	BG	112	PRO
41	BG	167	GLU
42	BH	111	HIS
45	BN	28	THR
45	BN	110	GLY
45	BN	129	PRO
46	BO	16	ALA
46	BO	51	ALA
47	BP	42	SER
47	BP	56	SER
47	BP	106	LEU
48	BQ	24	GLY
48	BQ	111	GLU
49	BR	4	LEU
49	BR	11	ASN
49	BR	51	LEU
51	BT	41	ARG
51	BT	45	PHE
51	BT	116	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	BT	132	LYS
52	BU	3	ARG
52	BU	14	HIS
52	BU	15	LYS
52	BU	36	ARG
52	BU	60	LEU
53	BV	23	GLU
53	BV	56	SER
53	BV	79	VAL
54	BW	6	ILE
54	BW	63	ASP
54	BW	74	ALA
55	BX	5	TYR
56	BY	13	VAL
56	BY	81	LYS
56	BY	95	LYS
57	BZ	29	TYR
57	BZ	79	ARG
57	BZ	141	VAL
57	BZ	150	LEU
57	BZ	166	SER
2	AB	48	MET
2	AB	125	PRO
2	AB	143	GLU
2	AB	146	GLN
2	AB	155	LEU
2	AB	161	ALA
2	AB	202	PRO
2	AB	204	ASN
2	AB	215	LEU
3	AC	31	HIS
3	AC	35	GLU
3	AC	83	ARG
3	AC	136	GLN
3	AC	181	ASN
4	AD	182	LYS
6	AF	73	ASN
7	AG	55	GLY
7	AG	60	LYS
7	AG	104	LEU
8	AH	5	PRO
8	AH	19	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	33	GLU
8	AH	36	LEU
9	AI	24	GLY
9	AI	44	VAL
10	AJ	13	HIS
10	AJ	19	SER
10	AJ	92	THR
11	AK	65	ALA
11	AK	66	LEU
11	AK	91	ARG
11	AK	122	LYS
13	AM	41	PRO
13	AM	75	ALA
13	AM	116	THR
15	AO	88	ARG
16	AP	36	ILE
16	AP	46	PRO
18	AR	38	GLU
18	AR	57	GLY
19	AS	28	LYS
20	AT	11	SER
20	AT	19	SER
20	AT	92	LEU
24	AY	22	PRO
24	AY	369	ASN
24	AY	421	GLU
25	B0	47	PRO
26	B1	88	LYS
27	B2	18	PRO
27	B2	47	ASN
27	B2	68	ARG
27	B2	70	GLN
29	B4	8	LYS
30	B5	18	ALA
37	BC	76	ALA
37	BC	103	ILE
37	BC	217	THR
38	BD	29	PRO
38	BD	244	ARG
39	BE	53	PRO
39	BE	63	LEU
39	BE	203	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BF	25	PRO
40	BF	31	HIS
40	BF	81	PRO
40	BF	122	LYS
40	BF	140	LEU
41	BG	8	LYS
41	BG	20	ILE
41	BG	43	LEU
41	BG	53	LEU
41	BG	70	VAL
41	BG	110	ALA
41	BG	163	ALA
42	BH	29	PRO
45	BN	59	LYS
45	BN	127	ASP
46	BO	95	GLY
47	BP	43	GLY
47	BP	146	VAL
48	BQ	40	ALA
48	BQ	53	ALA
49	BR	48	VAL
49	BR	106	GLY
50	BS	18	ILE
50	BS	27	SER
50	BS	71	ARG
50	BS	92	TYR
50	BS	98	VAL
50	BS	104	GLY
51	BT	4	GLY
51	BT	33	LYS
51	BT	91	ARG
51	BT	118	ARG
52	BU	5	LYS
52	BU	13	LYS
52	BU	50	ARG
52	BU	51	LYS
52	BU	109	LEU
52	BU	114	LYS
53	BV	18	LEU
53	BV	40	LEU
54	BW	25	ARG
55	BX	11	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
57	BZ	14	LYS
57	BZ	17	ALA
57	BZ	20	ARG
57	BZ	22	GLY
57	BZ	78	LYS
57	BZ	109	ALA
57	BZ	139	VAL
2	AB	107	THR
2	AB	124	SER
2	AB	191	ASP
2	AB	208	ILE
3	AC	39	ILE
3	AC	51	GLY
5	AE	57	LYS
5	AE	116	THR
6	AF	21	LEU
7	AG	9	VAL
7	AG	17	VAL
7	AG	155	ARG
8	AH	57	PRO
9	AI	12	GLU
9	AI	21	PRO
9	AI	33	PHE
9	AI	112	LYS
10	AJ	29	ARG
11	AK	25	TYR
14	AN	13	THR
14	AN	60	SER
18	AR	34	TYR
18	AR	36	ASN
19	AS	33	THR
20	AT	33	ILE
20	AT	34	LYS
20	AT	54	LYS
20	AT	63	ILE
24	AY	26	LYS
24	AY	65	GLN
24	AY	66	ARG
24	AY	78	PRO
24	AY	150	ASP
27	B2	59	ARG
28	B3	2	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	B6	33	LYS
33	B8	11	LYS
37	BC	211	SER
38	BD	198	ASN
39	BE	62	PRO
39	BE	155	LYS
39	BE	187	ALA
40	BF	66	PRO
40	BF	164	ARG
40	BF	178	PRO
42	BH	158	HIS
47	BP	9	ASN
47	BP	19	VAL
47	BP	107	LYS
47	BP	141	ALA
47	BP	149	GLU
48	BQ	110	THR
49	BR	29	LEU
49	BR	103	ARG
50	BS	57	LYS
50	BS	60	GLY
50	BS	107	GLU
51	BT	39	ARG
52	BU	34	LYS
52	BU	77	SER
53	BV	29	PRO
53	BV	35	LEU
53	BV	48	GLY
56	BY	8	LYS
56	BY	38	ILE
56	BY	79	CYS
57	BZ	73	GLN
57	BZ	143	GLY
57	BZ	169	GLU
2	AB	158	LEU
3	AC	3	ASN
4	AD	28	SER
4	AD	188	LEU
5	AE	7	GLU
6	AF	72	VAL
9	AI	46	ALA
11	AK	106	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AL	126	LYS
13	AM	31	LYS
18	AR	77	GLY
19	AS	12	ASP
19	AS	59	PRO
20	AT	20	LEU
24	AY	11	ALA
24	AY	121	ASP
24	AY	411	GLN
24	AY	488	LYS
26	B1	53	VAL
30	B5	16	ARG
32	B7	13	ALA
32	B7	24	THR
32	B7	38	GLY
39	BE	17	ASP
40	BF	79	GLY
40	BF	102	PRO
40	BF	133	ASN
42	BH	127	GLU
45	BN	53	VAL
45	BN	88	GLU
45	BN	94	HIS
47	BP	97	PRO
48	BQ	86	GLY
48	BQ	116	GLU
50	BS	29	PHE
50	BS	48	LEU
51	BT	20	PRO
52	BU	35	ALA
52	BU	90	VAL
54	BW	14	PRO
57	BZ	18	LEU
57	BZ	124	ILE
57	BZ	128	VAL
3	AC	7	PRO
3	AC	66	VAL
3	AC	109	PRO
9	AI	98	PRO
12	AL	101	VAL
24	AY	21	HIS
28	B3	59	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	B6	30	THR
37	BC	130	ILE
39	BE	193	GLY
41	BG	101	ILE
41	BG	111	LEU
41	BG	144	ILE
51	BT	110	ILE
53	BV	52	VAL
56	BY	3	VAL
56	BY	7	VAL
56	BY	42	VAL
57	BZ	61	LEU
2	AB	174	VAL
4	AD	7	PRO
8	AH	103	VAL
9	AI	68	GLY
11	AK	80	VAL
12	AL	124	LYS
18	AR	39	VAL
24	AY	442	GLY
39	BE	43	GLY
39	BE	71	GLY
39	BE	75	VAL
42	BH	15	VAL
45	BN	64	GLY
47	BP	23	PRO
47	BP	37	GLY
49	BR	58	GLY
50	BS	14	VAL
50	BS	28	VAL
50	BS	49	VAL
52	BU	63	VAL
53	BV	46	VAL
56	BY	96	ILE
2	AB	58	ILE
2	AB	65	GLY
2	AB	222	ILE
3	AC	8	ILE
15	AO	61	GLY
24	AY	198	GLY
38	BD	98	VAL
40	BF	89	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BF	134	GLY
41	BG	177	GLY
45	BN	30	ILE
51	BT	15	VAL
54	BW	71	VAL
3	AC	5	ILE
4	AD	67	ILE
5	AE	55	VAL
7	AG	14	PRO
20	AT	55	ILE
45	BN	135	PRO
47	BP	11	GLY
52	BU	100	VAL
2	AB	230	VAL
5	AE	77	PRO
12	AL	109	GLY
24	AY	334	VAL
24	AY	373	ILE
29	B4	19	GLY
38	BD	271	ILE
29	B4	41	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	150 (74%)	52 (26%)	0	3
3	AC	160/188 (85%)	134 (84%)	26 (16%)	2	14
4	AD	180/181 (99%)	153 (85%)	27 (15%)	3	16
5	AE	115/123 (94%)	93 (81%)	22 (19%)	1	9
6	AF	90/90 (100%)	73 (81%)	17 (19%)	1	10
7	AG	126/127 (99%)	111 (88%)	15 (12%)	5	22
8	AH	119/119 (100%)	102 (86%)	17 (14%)	3	17
9	AI	98/99 (99%)	76 (78%)	22 (22%)	1	5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	AJ	88/92 (96%)	70 (80%)	18 (20%)	1	7
11	AK	90/99 (91%)	72 (80%)	18 (20%)	1	8
12	AL	104/111 (94%)	87 (84%)	17 (16%)	2	14
13	AM	99/101 (98%)	79 (80%)	20 (20%)	1	8
14	AN	49/50 (98%)	36 (74%)	13 (26%)	0	3
15	AO	79/80 (99%)	49 (62%)	30 (38%)	0	0
16	AP	72/74 (97%)	61 (85%)	11 (15%)	3	16
17	AQ	94/97 (97%)	87 (93%)	7 (7%)	13	38
18	AR	61/77 (79%)	54 (88%)	7 (12%)	5	23
19	AS	69/80 (86%)	57 (83%)	12 (17%)	2	12
20	AT	76/82 (93%)	68 (90%)	8 (10%)	6	26
21	AU	19/22 (86%)	17 (90%)	2 (10%)	6	26
24	AY	427/453 (94%)	309 (72%)	118 (28%)	0	3
25	B0	66/67 (98%)	50 (76%)	16 (24%)	1	4
26	B1	78/83 (94%)	65 (83%)	13 (17%)	2	13
27	B2	66/67 (98%)	61 (92%)	5 (8%)	12	37
28	B3	51/52 (98%)	41 (80%)	10 (20%)	1	8
29	B4	39/63 (62%)	29 (74%)	10 (26%)	0	3
30	B5	51/52 (98%)	44 (86%)	7 (14%)	3	18
31	B6	49/52 (94%)	34 (69%)	15 (31%)	0	1
32	B7	41/42 (98%)	34 (83%)	7 (17%)	2	13
33	B8	53/55 (96%)	42 (79%)	11 (21%)	1	7
34	B9	34/34 (100%)	27 (79%)	7 (21%)	1	7
37	BC	180/181 (99%)	149 (83%)	31 (17%)	2	13
38	BD	217/218 (100%)	142 (65%)	75 (35%)	0	1
39	BE	165/166 (99%)	138 (84%)	27 (16%)	2	14
40	BF	165/166 (99%)	141 (86%)	24 (14%)	3	17
41	BG	155/156 (99%)	122 (79%)	33 (21%)	1	6
42	BH	128/148 (86%)	81 (63%)	47 (37%)	0	0
43	BJ	1/1 (100%)	1 (100%)	0	100	100
45	BN	117/119 (98%)	95 (81%)	22 (19%)	1	10

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	BO	100/100 (100%)	83 (83%)	17 (17%)	2	13
47	BP	112/116 (97%)	85 (76%)	27 (24%)	1	4
48	BQ	111/111 (100%)	86 (78%)	25 (22%)	1	5
49	BR	100/101 (99%)	78 (78%)	22 (22%)	1	5
50	BS	77/88 (88%)	56 (73%)	21 (27%)	0	3
51	BT	120/127 (94%)	91 (76%)	29 (24%)	1	4
52	BU	92/94 (98%)	75 (82%)	17 (18%)	1	11
53	BV	82/82 (100%)	64 (78%)	18 (22%)	1	5
54	BW	91/92 (99%)	80 (88%)	11 (12%)	5	21
55	BX	74/78 (95%)	64 (86%)	10 (14%)	4	19
56	BY	84/91 (92%)	70 (83%)	14 (17%)	2	13
57	BZ	155/179 (87%)	119 (77%)	36 (23%)	1	5
All	All	5271/5546 (95%)	4185 (79%)	1086 (21%)	1	7

All (1086) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	9	GLU
2	AB	12	GLU
2	AB	15	VAL
2	AB	16	HIS
2	AB	17	PHE
2	AB	20	GLU
2	AB	22	LYS
2	AB	23	ARG
2	AB	26	PRO
2	AB	27	LYS
2	AB	31	TYR
2	AB	32	ILE
2	AB	33	TYR
2	AB	39	ILE
2	AB	45	GLN
2	AB	46	LYS
2	AB	58	ILE
2	AB	67	THR
2	AB	69	LEU
2	AB	75	LYS
2	AB	76	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AB	79	ASP
2	AB	93	VAL
2	AB	98	LEU
2	AB	101	MET
2	AB	102	LEU
2	AB	106	LYS
2	AB	108	ILE
2	AB	130	ARG
2	AB	137	ARG
2	AB	138	LEU
2	AB	140	HIS
2	AB	143	GLU
2	AB	145	LEU
2	AB	150	SER
2	AB	155	LEU
2	AB	162	ILE
2	AB	168	THR
2	AB	172	ILE
2	AB	178	ARG
2	AB	179	LYS
2	AB	183	PRO
2	AB	185	ILE
2	AB	187	LEU
2	AB	189	ASP
2	AB	193	ASP
2	AB	204	ASN
2	AB	222	ILE
2	AB	231	GLU
2	AB	232	PRO
2	AB	234	PRO
2	AB	236	TYR
3	AC	5	ILE
3	AC	14	ILE
3	AC	15	THR
3	AC	16	ARG
3	AC	38	ARG
3	AC	49	SER
3	AC	59	ARG
3	AC	68	VAL
3	AC	77	ILE
3	AC	87	LEU
3	AC	88	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	94	LEU
3	AC	107	GLN
3	AC	109	PRO
3	AC	127	ARG
3	AC	135	LYS
3	AC	153	VAL
3	AC	167	TRP
3	AC	173	VAL
3	AC	176	HIS
3	AC	188	LEU
3	AC	192	THR
3	AC	195	VAL
3	AC	196	LEU
3	AC	198	VAL
3	AC	207	VAL
4	AD	8	VAL
4	AD	11	LEU
4	AD	15	GLU
4	AD	31	CYS
4	AD	33	MET
4	AD	34	GLU
4	AD	49	ARG
4	AD	50	ARG
4	AD	56	VAL
4	AD	78	LEU
4	AD	98	GLU
4	AD	108	LEU
4	AD	120	LEU
4	AD	122	ARG
4	AD	134	ASP
4	AD	135	LEU
4	AD	150	GLU
4	AD	154	ASN
4	AD	156	GLU
4	AD	159	ARG
4	AD	178	VAL
4	AD	181	MET
4	AD	190	ASP
4	AD	192	GLU
4	AD	196	LEU
4	AD	208	SER
4	AD	209	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	11	ILE
5	AE	12	LEU
5	AE	18	ARG
5	AE	20	GLN
5	AE	31	LEU
5	AE	36	ASP
5	AE	50	GLU
5	AE	52	PRO
5	AE	53	LEU
5	AE	76	ILE
5	AE	87	SER
5	AE	101	ILE
5	AE	107	ARG
5	AE	115	VAL
5	AE	116	THR
5	AE	119	LEU
5	AE	127	ASN
5	AE	128	PRO
5	AE	129	ILE
5	AE	131	ILE
5	AE	140	ARG
5	AE	147	ASP
6	AF	1	MET
6	AF	10	LEU
6	AF	14	LEU
6	AF	21	LEU
6	AF	25	ILE
6	AF	26	ILE
6	AF	40	VAL
6	AF	43	LEU
6	AF	47	ARG
6	AF	55	ASP
6	AF	57	GLN
6	AF	61	LEU
6	AF	69	GLU
6	AF	87	ARG
6	AF	88	VAL
6	AF	92	LYS
6	AF	98	LEU
7	AG	13	GLN
7	AG	30	ILE
7	AG	37	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AG	41	ARG
7	AG	42	ILE
7	AG	78	ARG
7	AG	88	PRO
7	AG	104	LEU
7	AG	113	GLU
7	AG	114	ARG
7	AG	124	LEU
7	AG	126	ASP
7	AG	136	LYS
7	AG	137	LYS
7	AG	139	GLU
8	AH	1	MET
8	AH	2	LEU
8	AH	6	ILE
8	AH	14	ARG
8	AH	18	ARG
8	AH	25	ASP
8	AH	26	VAL
8	AH	30	ARG
8	AH	38	ILE
8	AH	52	ASP
8	AH	77	GLU
8	AH	109	ILE
8	AH	127	LEU
8	AH	133	LEU
8	AH	134	ILE
8	AH	135	CYS
8	AH	137	VAL
9	AI	3	GLN
9	AI	9	ARG
9	AI	10	ARG
9	AI	41	VAL
9	AI	47	LEU
9	AI	50	LEU
9	AI	56	LEU
9	AI	77	ILE
9	AI	78	LYS
9	AI	95	LYS
9	AI	98	PRO
9	AI	99	LEU
9	AI	102	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	AI	104	ARG
9	AI	105	ASP
9	AI	111	ARG
9	AI	112	LYS
9	AI	114	TYR
9	AI	117	HIS
9	AI	121	ARG
9	AI	126	SER
9	AI	128	ARG
10	AJ	6	ILE
10	AJ	12	ASP
10	AJ	17	ASP
10	AJ	40	LEU
10	AJ	48	THR
10	AJ	49	VAL
10	AJ	50	ILE
10	AJ	51	ARG
10	AJ	54	PHE
10	AJ	55	LYS
10	AJ	57	LYS
10	AJ	58	ASP
10	AJ	67	THR
10	AJ	73	ASP
10	AJ	82	ILE
10	AJ	86	MET
10	AJ	92	THR
10	AJ	96	ILE
11	AK	14	VAL
11	AK	29	ILE
11	AK	31	THR
11	AK	32	ILE
11	AK	33	THR
11	AK	38	ASN
11	AK	51	LYS
11	AK	63	LEU
11	AK	66	LEU
11	AK	80	VAL
11	AK	83	ILE
11	AK	84	VAL
11	AK	104	GLN
11	AK	108	ILE
11	AK	119	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	AK	124	LYS
11	AK	125	PHE
11	AK	126	ARG
12	AL	7	ILE
12	AL	18	VAL
12	AL	27	LEU
12	AL	36	VAL
12	AL	37	CYS
12	AL	43	VAL
12	AL	44	THR
12	AL	47	LYS
12	AL	48	PRO
12	AL	53	ARG
12	AL	54	LYS
12	AL	83	VAL
12	AL	84	LEU
12	AL	89	ARG
12	AL	94	PRO
12	AL	122	THR
12	AL	126	LYS
13	AM	9	ILE
13	AM	19	LEU
13	AM	56	LEU
13	AM	58	GLU
13	AM	63	THR
13	AM	64	TRP
13	AM	65	LYS
13	AM	67	GLU
13	AM	70	LEU
13	AM	73	GLU
13	AM	77	ASN
13	AM	78	ILE
13	AM	82	MET
13	AM	86	CYS
13	AM	90	LEU
13	AM	93	ARG
13	AM	101	GLN
13	AM	102	ARG
13	AM	108	ARG
13	AM	120	LYS
14	AN	4	LYS
14	AN	14	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AN	18	VAL
14	AN	19	ARG
14	AN	21	TYR
14	AN	32	SER
14	AN	33	VAL
14	AN	41	ARG
14	AN	42	ILE
14	AN	44	LEU
14	AN	47	LEU
14	AN	56	VAL
14	AN	57	ARG
15	AO	3	ILE
15	AO	7	GLU
15	AO	10	LYS
15	AO	11	VAL
15	AO	15	PHE
15	AO	17	ARG
15	AO	22	THR
15	AO	26	GLU
15	AO	27	VAL
15	AO	33	THR
15	AO	36	ILE
15	AO	38	ARG
15	AO	40	SER
15	AO	42	HIS
15	AO	43	LEU
15	AO	45	VAL
15	AO	48	LYS
15	AO	51	HIS
15	AO	53	HIS
15	AO	58	MET
15	AO	63	ARG
15	AO	65	ARG
15	AO	68	ARG
15	AO	77	ARG
15	AO	81	LEU
15	AO	82	ILE
15	AO	83	GLU
15	AO	85	LEU
15	AO	87	ILE
15	AO	88	ARG
16	AP	1	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	AP	17	TYR
16	AP	19	ILE
16	AP	21	VAL
16	AP	22	THR
16	AP	36	ILE
16	AP	40	ASP
16	AP	53	VAL
16	AP	55	ARG
16	AP	75	ARG
16	AP	80	PHE
17	AQ	36	ILE
17	AQ	49	GLU
17	AQ	52	LYS
17	AQ	55	ASP
17	AQ	57	VAL
17	AQ	73	VAL
17	AQ	91	ARG
18	AR	34	TYR
18	AR	38	GLU
18	AR	44	LEU
18	AR	47	THR
18	AR	82	THR
18	AR	84	LYS
18	AR	88	LYS
19	AS	4	SER
19	AS	6	LYS
19	AS	7	LYS
19	AS	15	LEU
19	AS	22	LEU
19	AS	27	GLU
19	AS	29	ARG
19	AS	37	ARG
19	AS	41	VAL
19	AS	44	MET
19	AS	45	VAL
19	AS	79	THR
20	AT	13	LEU
20	AT	26	ASN
20	AT	35	THR
20	AT	41	ILE
20	AT	61	SER
20	AT	65	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AT	93	GLU
20	AT	104	LEU
21	AU	15	ARG
21	AU	18	TYR
24	AY	7	LEU
24	AY	14	ARG
24	AY	21	HIS
24	AY	22	PRO
24	AY	23	ASP
24	AY	26	LYS
24	AY	30	THR
24	AY	33	VAL
24	AY	34	LEU
24	AY	36	PHE
24	AY	66	ARG
24	AY	69	SER
24	AY	73	SER
24	AY	77	PHE
24	AY	85	ASN
24	AY	94	ASP
24	AY	99	THR
24	AY	101	ARG
24	AY	103	LEU
24	AY	111	MET
24	AY	114	ASP
24	AY	119	VAL
24	AY	123	THR
24	AY	124	ARG
24	AY	127	MET
24	AY	131	ARG
24	AY	137	ILE
24	AY	141	MET
24	AY	145	ASP
24	AY	146	ARG
24	AY	147	ASP
24	AY	158	VAL
24	AY	162	LEU
24	AY	164	ILE
24	AY	178	LEU
24	AY	185	LEU
24	AY	192	LEU
24	AY	193	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	AY	194	GLN
24	AY	208	LYS
24	AY	210	LEU
24	AY	212	ASN
24	AY	215	LEU
24	AY	229	ASP
24	AY	230	GLU
24	AY	231	LEU
24	AY	235	LYS
24	AY	239	ASN
24	AY	244	GLU
24	AY	247	LEU
24	AY	251	ILE
24	AY	258	THR
24	AY	260	LEU
24	AY	263	PHE
24	AY	266	ASP
24	AY	267	HIS
24	AY	269	LEU
24	AY	270	ASP
24	AY	272	LEU
24	AY	274	GLU
24	AY	284	THR
24	AY	289	VAL
24	AY	297	THR
24	AY	299	PHE
24	AY	307	MET
24	AY	312	ARG
24	AY	321	VAL
24	AY	324	LYS
24	AY	331	LEU
24	AY	332	ARG
24	AY	335	ARG
24	AY	342	ILE
24	AY	344	ASP
24	AY	347	THR
24	AY	360	TYR
24	AY	365	LEU
24	AY	372	THR
24	AY	377	ASP
24	AY	379	PHE
24	AY	385	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	AY	386	LYS
24	AY	387	PHE
24	AY	388	THR
24	AY	392	ASN
24	AY	396	GLU
24	AY	397	LEU
24	AY	399	ARG
24	AY	401	ILE
24	AY	402	ARG
24	AY	403	LEU
24	AY	404	LYS
24	AY	405	ASP
24	AY	419	LEU
24	AY	425	VAL
24	AY	427	VAL
24	AY	431	ILE
24	AY	433	ASN
24	AY	437	ILE
24	AY	443	VAL
24	AY	450	VAL
24	AY	455	SER
24	AY	460	GLU
24	AY	467	ASN
24	AY	470	THR
24	AY	476	CYS
24	AY	480	LYS
24	AY	485	PHE
24	AY	488	LYS
24	AY	490	GLU
24	AY	492	GLN
24	AY	499	ASP
24	AY	504	ILE
24	AY	508	MET
24	AY	511	LEU
24	AY	516	GLU
24	AY	518	TYR
24	AY	521	VAL
24	AY	526	THR
25	B0	5	LYS
25	B0	11	ARG
25	B0	16	SER
25	B0	20	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	B0	27	GLU
25	B0	30	VAL
25	B0	37	LEU
25	B0	43	THR
25	B0	44	ARG
25	B0	62	LEU
25	B0	63	VAL
25	B0	67	VAL
25	B0	69	PHE
25	B0	75	LEU
25	B0	80	HIS
25	B0	81	VAL
26	B1	3	LYS
26	B1	7	ILE
26	B1	13	ILE
26	B1	26	ARG
26	B1	35	THR
26	B1	38	SER
26	B1	39	LYS
26	B1	56	GLN
26	B1	67	ILE
26	B1	82	LEU
26	B1	83	GLU
26	B1	94	LEU
26	B1	95	LEU
27	B2	12	GLU
27	B2	22	GLU
27	B2	45	SER
27	B2	59	ARG
27	B2	64	LEU
28	B3	6	VAL
28	B3	8	LEU
28	B3	11	SER
28	B3	13	ILE
28	B3	16	PRO
28	B3	28	LEU
28	B3	35	ARG
28	B3	37	LEU
28	B3	46	ASN
28	B3	56	VAL
29	B4	5	ILE
29	B4	6	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	B4	9	LEU
29	B4	20	ASN
29	B4	25	TYR
29	B4	26	SER
29	B4	28	LYS
29	B4	32	TYR
29	B4	34	GLU
29	B4	40	HIS
30	B5	3	LYS
30	B5	11	THR
30	B5	25	LEU
30	B5	43	HIS
30	B5	45	VAL
30	B5	48	GLU
30	B5	56	LYS
31	B6	5	VAL
31	B6	8	LYS
31	B6	10	LEU
31	B6	11	LEU
31	B6	14	THR
31	B6	18	ARG
31	B6	19	ARG
31	B6	30	THR
31	B6	31	PRO
31	B6	36	LEU
31	B6	42	TRP
31	B6	45	LYS
31	B6	48	VAL
31	B6	52	VAL
31	B6	53	LYS
32	B7	1	MET
32	B7	6	GLN
32	B7	8	ASN
32	B7	24	THR
32	B7	44	PRO
32	B7	47	ARG
32	B7	48	LYS
33	B8	19	SER
33	B8	26	LYS
33	B8	31	HIS
33	B8	34	TRP
33	B8	41	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	B8	42	ARG
33	B8	44	LYS
33	B8	47	LYS
33	B8	49	VAL
33	B8	61	LEU
33	B8	64	TYR
34	B9	1	MET
34	B9	2	LYS
34	B9	8	LYS
34	B9	10	ILE
34	B9	28	GLU
34	B9	29	ASN
34	B9	36	GLN
37	BC	3	HIS
37	BC	6	ARG
37	BC	10	LEU
37	BC	12	GLU
37	BC	27	HIS
37	BC	28	LEU
37	BC	30	LYS
37	BC	46	LYS
37	BC	47	LEU
37	BC	57	ASN
37	BC	58	VAL
37	BC	70	LYS
37	BC	71	GLN
37	BC	77	ILE
37	BC	104	LEU
37	BC	107	TRP
37	BC	109	ASP
37	BC	134	ARG
37	BC	141	LYS
37	BC	147	PHE
37	BC	157	LYS
37	BC	161	ILE
37	BC	162	GLU
37	BC	167	LYS
37	BC	168	THR
37	BC	171	ILE
37	BC	172	HIS
37	BC	183	GLU
37	BC	187	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BC	215	THR
37	BC	221	SER
38	BD	3	VAL
38	BD	7	LYS
38	BD	9	TYR
38	BD	14	ARG
38	BD	18	VAL
38	BD	27	THR
38	BD	28	GLU
38	BD	29	PRO
38	BD	31	LYS
38	BD	33	LEU
38	BD	35	LYS
38	BD	37	LEU
38	BD	40	THR
38	BD	43	ARG
38	BD	45	ASN
38	BD	49	ILE
38	BD	52	ARG
38	BD	54	ARG
38	BD	59	LYS
38	BD	61	LEU
38	BD	64	ILE
38	BD	68	LYS
38	BD	73	VAL
38	BD	79	VAL
38	BD	87	ASN
38	BD	88	ARG
38	BD	91	ARG
38	BD	95	LEU
38	BD	102	LYS
38	BD	105	ILE
38	BD	111	LEU
38	BD	113	VAL
38	BD	115	GLN
38	BD	116	GLN
38	BD	117	VAL
38	BD	118	VAL
38	BD	125	ILE
38	BD	127	VAL
38	BD	134	ARG
38	BD	136	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BD	137	PRO
38	BD	141	VAL
38	BD	142	VAL
38	BD	150	LYS
38	BD	151	LYS
38	BD	157	ARG
38	BD	162	SER
38	BD	165	ILE
38	BD	169	GLU
38	BD	172	TYR
38	BD	173	VAL
38	BD	174	ILE
38	BD	175	LEU
38	BD	176	ARG
38	BD	177	LEU
38	BD	181	GLU
38	BD	192	THR
38	BD	193	VAL
38	BD	196	VAL
38	BD	200	ASP
38	BD	202	LYS
38	BD	204	ILE
38	BD	206	LEU
38	BD	211	ARG
38	BD	212	SER
38	BD	221	VAL
38	BD	229	VAL
38	BD	242	ARG
38	BD	257	LEU
38	BD	260	ARG
38	BD	263	ARG
38	BD	264	LYS
38	BD	268	ARG
38	BD	270	ILE
38	BD	274	ARG
39	BE	26	ILE
39	BE	27	LEU
39	BE	40	GLU
39	BE	53	PRO
39	BE	54	GLN
39	BE	57	LYS
39	BE	61	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BE	64	LYS
39	BE	69	LYS
39	BE	82	ARG
39	BE	93	VAL
39	BE	94	GLU
39	BE	95	ILE
39	BE	98	PRO
39	BE	102	VAL
39	BE	111	ARG
39	BE	121	ASN
39	BE	122	PHE
39	BE	129	HIS
39	BE	133	LYS
39	BE	134	ILE
39	BE	143	ASN
39	BE	178	GLU
39	BE	182	LEU
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	11	VAL
40	BF	23	ASP
40	BF	28	ILE
40	BF	37	VAL
40	BF	53	THR
40	BF	64	ILE
40	BF	65	TRP
40	BF	66	PRO
40	BF	70	THR
40	BF	82	ILE
40	BF	83	PHE
40	BF	98	SER
40	BF	102	PRO
40	BF	110	LEU
40	BF	122	LYS
40	BF	123	LEU
40	BF	125	LEU
40	BF	126	VAL
40	BF	127	GLU
40	BF	136	THR
40	BF	168	ARG
40	BF	169	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BF	172	TRP
40	BF	206	ILE
41	BG	10	LYS
41	BG	16	ARG
41	BG	21	ARG
41	BG	26	GLN
41	BG	36	LYS
41	BG	39	ILE
41	BG	40	ASN
41	BG	45	GLU
41	BG	49	ASP
41	BG	52	ILE
41	BG	53	LEU
41	BG	58	GLN
41	BG	60	LEU
41	BG	63	ILE
41	BG	67	LYS
41	BG	79	ASN
41	BG	80	PHE
41	BG	82	LEU
41	BG	84	LYS
41	BG	86	MET
41	BG	102	PHE
41	BG	104	GLU
41	BG	125	PHE
41	BG	130	ASN
41	BG	135	LEU
41	BG	143	GLU
41	BG	144	ILE
41	BG	145	THR
41	BG	146	TYR
41	BG	149	VAL
41	BG	152	LEU
41	BG	159	VAL
41	BG	164	GLU
42	BH	19	VAL
42	BH	23	ARG
42	BH	25	LYS
42	BH	26	VAL
42	BH	27	LYS
42	BH	34	GLU
42	BH	35	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BH	38	SER
42	BH	41	MET
42	BH	43	VAL
42	BH	44	VAL
42	BH	46	GLU
42	BH	49	VAL
42	BH	50	VAL
42	BH	52	VAL
42	BH	54	ARG
42	BH	58	GLU
42	BH	59	ARG
42	BH	60	ARG
42	BH	64	LEU
42	BH	65	HIS
42	BH	72	ILE
42	BH	79	VAL
42	BH	80	SER
42	BH	83	TYR
42	BH	85	LYS
42	BH	87	LEU
42	BH	88	LEU
42	BH	98	LEU
42	BH	103	LEU
42	BH	104	GLU
42	BH	105	LEU
42	BH	113	VAL
42	BH	114	VAL
42	BH	116	GLU
42	BH	119	GLU
42	BH	121	ILE
42	BH	126	PRO
42	BH	127	GLU
42	BH	129	THR
42	BH	131	VAL
42	BH	137	ASP
42	BH	148	ILE
42	BH	151	ILE
42	BH	160	LYS
42	BH	162	ILE
42	BH	163	TYR
45	BN	1	MET
45	BN	2	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BN	4	TYR
45	BN	10	GLU
45	BN	12	ARG
45	BN	14	VAL
45	BN	19	GLU
45	BN	21	LYS
45	BN	25	ARG
45	BN	32	THR
45	BN	34	LEU
45	BN	37	LYS
45	BN	48	MET
45	BN	55	VAL
45	BN	63	THR
45	BN	65	LYS
45	BN	88	GLU
45	BN	90	MET
45	BN	99	LEU
45	BN	120	LEU
45	BN	123	TYR
45	BN	127	ASP
46	BO	9	GLU
46	BO	17	ARG
46	BO	20	MET
46	BO	22	ILE
46	BO	23	ARG
46	BO	28	SER
46	BO	29	ASN
46	BO	40	VAL
46	BO	47	ILE
46	BO	48	PRO
46	BO	70	LYS
46	BO	73	ASP
46	BO	87	ILE
46	BO	94	ARG
46	BO	98	VAL
46	BO	102	VAL
46	BO	113	LYS
47	BP	6	LEU
47	BP	7	ARG
47	BP	13	ASN
47	BP	16	ARG
47	BP	18	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
47	BP	19	VAL
47	BP	21	ARG
47	BP	30	THR
47	BP	35	HIS
47	BP	39	LYS
47	BP	41	ARG
47	BP	52	GLU
47	BP	55	ARG
47	BP	61	ARG
47	BP	62	LEU
47	BP	68	GLN
47	BP	70	GLN
47	BP	75	ILE
47	BP	77	ARG
47	BP	91	PHE
47	BP	110	TYR
47	BP	111	ARG
47	BP	112	LEU
47	BP	117	GLU
47	BP	123	LEU
47	BP	132	LYS
47	BP	139	LYS
48	BQ	6	ARG
48	BQ	10	ARG
48	BQ	14	ARG
48	BQ	17	LEU
48	BQ	22	LYS
48	BQ	31	ASP
48	BQ	42	ILE
48	BQ	45	GLN
48	BQ	54	MET
48	BQ	55	VAL
48	BQ	60	ARG
48	BQ	67	ARG
48	BQ	68	ILE
48	BQ	77	LYS
48	BQ	91	GLU
48	BQ	101	ARG
48	BQ	103	MET
48	BQ	104	PHE
48	BQ	110	THR
48	BQ	120	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	BQ	125	LEU
48	BQ	127	ILE
48	BQ	131	ILE
48	BQ	133	ARG
48	BQ	141	GLN
49	BR	2	ARG
49	BR	5	LYS
49	BR	23	ASN
49	BR	28	LEU
49	BR	29	LEU
49	BR	35	THR
49	BR	45	ARG
49	BR	49	ASP
49	BR	57	ARG
49	BR	63	ARG
49	BR	66	VAL
49	BR	67	LEU
49	BR	71	GLN
49	BR	75	LEU
49	BR	79	LEU
49	BR	90	ARG
49	BR	94	TYR
49	BR	97	VAL
49	BR	99	LYS
49	BR	100	LEU
49	BR	113	LEU
49	BR	117	VAL
50	BS	11	LYS
50	BS	12	PHE
50	BS	15	ARG
50	BS	17	ARG
50	BS	18	ILE
50	BS	20	ARG
50	BS	26	LEU
50	BS	28	VAL
50	BS	29	PHE
50	BS	35	ILE
50	BS	36	TYR
50	BS	40	ILE
50	BS	52	SER
50	BS	54	LEU
50	BS	56	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	BS	63	THR
50	BS	84	GLN
50	BS	92	TYR
50	BS	97	ARG
50	BS	101	LEU
50	BS	106	ARG
51	BT	11	GLU
51	BT	16	ARG
51	BT	20	PRO
51	BT	23	ARG
51	BT	24	PRO
51	BT	29	ARG
51	BT	32	TYR
51	BT	38	ASN
51	BT	41	ARG
51	BT	43	GLN
51	BT	48	ILE
51	BT	58	ASN
51	BT	65	LYS
51	BT	67	SER
51	BT	82	LEU
51	BT	83	ILE
51	BT	85	LYS
51	BT	86	ILE
51	BT	89	VAL
51	BT	90	GLN
51	BT	96	ARG
51	BT	99	LEU
51	BT	102	ILE
51	BT	112	ARG
51	BT	113	LYS
51	BT	123	GLN
51	BT	124	ASP
51	BT	128	GLU
51	BT	132	LYS
52	BU	8	VAL
52	BU	13	LYS
52	BU	14	HIS
52	BU	17	ILE
52	BU	20	LEU
52	BU	28	ARG
52	BU	36	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
52	BU	44	ASN
52	BU	55	ARG
52	BU	74	LEU
52	BU	88	ILE
52	BU	90	VAL
52	BU	101	ARG
52	BU	102	GLU
52	BU	105	VAL
52	BU	108	GLU
52	BU	114	LYS
53	BV	12	TYR
53	BV	16	PRO
53	BV	18	LEU
53	BV	19	LYS
53	BV	21	ARG
53	BV	39	LEU
53	BV	45	THR
53	BV	47	VAL
53	BV	50	PRO
53	BV	51	VAL
53	BV	70	ILE
53	BV	73	SER
53	BV	79	VAL
53	BV	89	GLN
53	BV	92	THR
53	BV	95	LEU
53	BV	96	ILE
53	BV	99	ILE
54	BW	11	ARG
54	BW	29	LEU
54	BW	51	LEU
54	BW	63	ASP
54	BW	71	VAL
54	BW	82	LEU
54	BW	88	ARG
54	BW	96	ILE
54	BW	102	HIS
54	BW	103	ILE
54	BW	107	LEU
55	BX	8	ILE
55	BX	11	PRO
55	BX	12	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	BX	14	SER
55	BX	26	TYR
55	BX	45	THR
55	BX	57	LEU
55	BX	68	ARG
55	BX	69	TYR
55	BX	87	GLN
56	BY	2	ARG
56	BY	6	HIS
56	BY	7	VAL
56	BY	9	LYS
56	BY	11	ASP
56	BY	13	VAL
56	BY	38	ILE
56	BY	50	ARG
56	BY	53	PRO
56	BY	56	PRO
56	BY	73	ARG
56	BY	77	PRO
56	BY	83	THR
56	BY	99	CYS
57	BZ	3	TYR
57	BZ	5	LEU
57	BZ	6	LYS
57	BZ	11	GLU
57	BZ	18	LEU
57	BZ	20	ARG
57	BZ	24	LEU
57	BZ	28	MET
57	BZ	35	ARG
57	BZ	40	ASP
57	BZ	41	LEU
57	BZ	45	ASP
57	BZ	48	PHE
57	BZ	57	ILE
57	BZ	66	SER
57	BZ	67	LEU
57	BZ	70	LEU
57	BZ	71	VAL
57	BZ	72	ARG
57	BZ	73	GLN
57	BZ	76	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
57	BZ	89	PHE
57	BZ	93	ASP
57	BZ	97	GLU
57	BZ	98	MET
57	BZ	103	ARG
57	BZ	104	PHE
57	BZ	111	VAL
57	BZ	120	ILE
57	BZ	122	ARG
57	BZ	123	ASP
57	BZ	124	ILE
57	BZ	127	LYS
57	BZ	142	SER
57	BZ	154	ASP
57	BZ	155	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (183) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	19	HIS
2	AB	37	ASN
2	AB	40	HIS
2	AB	45	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	102	ASN
3	AC	108	ASN
3	AC	118	GLN
3	AC	139	GLN
3	AC	170	GLN
3	AC	176	HIS
4	AD	119	GLN
4	AD	129	ASN
4	AD	160	GLN
5	AE	20	GLN
5	AE	73	ASN
5	AE	78	HIS
6	AF	7	ASN
6	AF	18	GLN
6	AF	27	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	100	ASN
7	AG	13	GLN
7	AG	28	ASN
7	AG	37	ASN
7	AG	56	GLN
7	AG	64	GLN
7	AG	68	ASN
7	AG	84	ASN
7	AG	106	GLN
8	AH	78	GLN
8	AH	82	HIS
9	AI	3	GLN
9	AI	31	GLN
9	AI	124	GLN
10	AJ	13	HIS
10	AJ	56	HIS
10	AJ	68	HIS
10	AJ	76	ASN
10	AJ	84	GLN
11	AK	38	ASN
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
13	AM	12	ASN
13	AM	40	ASN
13	AM	101	GLN
14	AN	49	HIS
15	AO	37	ASN
15	AO	46	HIS
16	AP	65	GLN
16	AP	76	GLN
17	AQ	16	GLN
17	AQ	26	GLN
17	AQ	93	GLN
19	AS	14	HIS
19	AS	56	GLN
20	AT	18	GLN
20	AT	26	ASN
20	AT	42	GLN
20	AT	45	GLN
24	AY	21	HIS
24	AY	38	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	AY	76	GLN
24	AY	85	ASN
24	AY	142	ASN
24	AY	202	GLN
24	AY	262	ASN
24	AY	267	HIS
24	AY	311	HIS
24	AY	368	HIS
24	AY	369	ASN
24	AY	392	ASN
24	AY	411	GLN
24	AY	426	GLN
24	AY	434	ASN
24	AY	445	GLN
24	AY	458	ASN
24	AY	510	ASN
24	AY	529	HIS
25	B0	29	GLN
25	B0	70	GLN
26	B1	45	ASN
26	B1	56	GLN
26	B1	66	HIS
27	B2	43	GLN
27	B2	46	GLN
27	B2	56	GLN
27	B2	65	ASN
28	B3	19	GLN
28	B3	32	GLN
29	B4	6	HIS
29	B4	20	ASN
29	B4	40	HIS
29	B4	46	GLN
31	B6	26	ASN
31	B6	32	ASN
34	B9	29	ASN
34	B9	36	GLN
37	BC	56	GLN
37	BC	57	ASN
37	BC	66	HIS
37	BC	165	ASN
37	BC	188	ASN
37	BC	225	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BD	44	ASN
38	BD	45	ASN
38	BD	58	HIS
38	BD	87	ASN
38	BD	115	GLN
38	BD	129	ASN
38	BD	198	ASN
38	BD	203	ASN
38	BD	227	ASN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	66	HIS
39	BE	121	ASN
39	BE	132	HIS
39	BE	135	HIS
39	BE	169	ASN
40	BF	67	GLN
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN
40	BF	203	GLN
41	BG	40	ASN
41	BG	41	GLN
41	BG	58	GLN
41	BG	66	GLN
41	BG	108	ASN
41	BG	121	ASN
41	BG	123	ASN
41	BG	138	GLN
42	BH	65	HIS
45	BN	69	GLN
45	BN	131	GLN
46	BO	5	GLN
47	BP	35	HIS
47	BP	70	GLN
47	BP	81	GLN
47	BP	128	HIS
48	BQ	45	GLN
48	BQ	46	GLN
48	BQ	123	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	BQ	141	GLN
49	BR	3	HIS
49	BR	13	HIS
49	BR	23	ASN
49	BR	24	GLN
49	BR	31	HIS
49	BR	61	HIS
49	BR	71	GLN
50	BS	16	ASN
50	BS	34	HIS
51	BT	58	ASN
51	BT	123	GLN
52	BU	49	HIS
52	BU	66	ASN
52	BU	72	HIS
52	BU	81	HIS
52	BU	94	ASN
53	BV	11	GLN
53	BV	89	GLN
54	BW	40	ASN
54	BW	57	ASN
54	BW	60	ASN
54	BW	62	HIS
54	BW	102	HIS
55	BX	41	ASN
55	BX	58	HIS
55	BX	82	GLN
55	BX	87	GLN
56	BY	6	HIS
57	BZ	55	HIS
57	BZ	73	GLN
57	BZ	75	ASN
57	BZ	118	GLN
57	BZ	151	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	276 (18%)	58 (3%)
22	AV	76/77 (98%)	36 (47%)	3 (3%)
23	AX	8/9 (88%)	5 (62%)	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
35	BA	2900/2915 (99%)	658 (22%)	73 (2%)
36	BB	118/122 (96%)	24 (20%)	1 (0%)
All	All	4605/4645 (99%)	999 (21%)	135 (2%)

All (999) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	54	C
1	AA	60	A
1	AA	61	G
1	AA	65	U
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	89	C
1	AA	90	U
1	AA	97	G
1	AA	101	A
1	AA	102	G
1	AA	109	A
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	131	C
1	AA	144	G
1	AA	146	G
1	AA	147	G
1	AA	150	C
1	AA	165	C
1	AA	172	A
1	AA	189(H)	G
1	AA	195	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	197	A
1	AA	198	G
1	AA	199	G
1	AA	203	U
1	AA	204	U
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	253	U
1	AA	267	C
1	AA	274	A
1	AA	275	G
1	AA	281	G
1	AA	289	G
1	AA	328	C
1	AA	330	C
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	347	G
1	AA	348	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	389	A
1	AA	397	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	439	A
1	AA	442	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	452	A
1	AA	453	A
1	AA	454	C
1	AA	461	A
1	AA	470	C
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	499	A
1	AA	507	C
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	518	C
1	AA	527	G
1	AA	528	C
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	548	G
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	564	C
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	623	C
1	AA	632	A
1	AA	633	G
1	AA	653	A
1	AA	665	A
1	AA	673	G
1	AA	688	G
1	AA	689	C
1	AA	701	C
1	AA	702	A
1	AA	703	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	717	C
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	731	G
1	AA	734	G
1	AA	749	C
1	AA	755	G
1	AA	765	G
1	AA	772	U
1	AA	777	A
1	AA	786	G
1	AA	793	U
1	AA	794	A
1	AA	816	A
1	AA	817	C
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	872	A
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	946	A
1	AA	950	U
1	AA	960	U
1	AA	961	U
1	AA	962	C
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	980	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	981	U
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	996	A
1	AA	1026	G
1	AA	1030	C
1	AA	1050	G
1	AA	1051	C
1	AA	1054	C
1	AA	1064	G
1	AA	1085	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1127	G
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1152	A
1	AA	1154	G
1	AA	1158	C
1	AA	1159	U
1	AA	1180	A
1	AA	1184	G
1	AA	1190	G
1	AA	1191	A
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1201	A
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1227	A
1	AA	1229	A
1	AA	1230	C
1	AA	1238	A
1	AA	1240	U
1	AA	1256	A
1	AA	1257	U
1	AA	1267	C
1	AA	1268	A
1	AA	1270	C
1	AA	1281	U
1	AA	1283	G
1	AA	1284	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1321	C
1	AA	1322	C
1	AA	1324	A
1	AA	1327	C
1	AA	1331	G
1	AA	1335	C
1	AA	1336	C
1	AA	1346	A
1	AA	1347	G
1	AA	1348	U
1	AA	1353	G
1	AA	1359	C
1	AA	1363	C
1	AA	1363(A)	A
1	AA	1364	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1387	G
1	AA	1397	C
1	AA	1398	A
1	AA	1400	C
1	AA	1402	C
1	AA	1408	A
1	AA	1419	G
1	AA	1430	C
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1487	G
1	AA	1489	G
1	AA	1491	G
1	AA	1493	A
1	AA	1494	G
1	AA	1495	U
1	AA	1496	C
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	2	G
22	AV	3	C
22	AV	4	G
22	AV	5	G
22	AV	8	U
22	AV	9	G
22	AV	13	C
22	AV	15	G
22	AV	16	C
22	AV	17	C
22	AV	17(A)	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	24	U
22	AV	25	C
22	AV	27	U
22	AV	28	C
22	AV	33	U
22	AV	44	A
22	AV	45	G
22	AV	48	C
22	AV	53	G
22	AV	54	U
22	AV	58	A
22	AV	59	A
22	AV	60	U
22	AV	61	C
22	AV	62	C
22	AV	63	G
22	AV	65	C
22	AV	67	C
22	AV	71	C
22	AV	72	A
22	AV	73	A
23	AX	12	A
23	AX	14	A
23	AX	15	A
23	AX	17	U
23	AX	19	U
35	BA	9	U
35	BA	10	G
35	BA	45	C
35	BA	50	U
35	BA	61	G
35	BA	71	A
35	BA	72	U
35	BA	74	A
35	BA	75	G
35	BA	82	G
35	BA	83	G
35	BA	84	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	92	A
35	BA	94	C
35	BA	95	G
35	BA	100	G
35	BA	102	G
35	BA	105	C
35	BA	118	A
35	BA	119	A
35	BA	120	U
35	BA	122	G
35	BA	139(A)	G
35	BA	141	A
35	BA	146	G
35	BA	149	A
35	BA	155	U
35	BA	181	A
35	BA	196	A
35	BA	197	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	227	A
35	BA	228	A
35	BA	229	A
35	BA	233	A
35	BA	244	A
35	BA	245	G
35	BA	248	G
35	BA	261	G
35	BA	267	C
35	BA	271(I)	G
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(M)	G
35	BA	271(O)	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	271(P)	C
35	BA	271(R)	G
35	BA	272(A)	U
35	BA	272(B)	G
35	BA	272(I)	U
35	BA	276	A
35	BA	284	U
35	BA	307	G
35	BA	310	A
35	BA	311	A
35	BA	312	G
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	343	C
35	BA	349	G
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	358	U
35	BA	362	U
35	BA	363(D)	G
35	BA	363(E)	U
35	BA	363(F)	A
35	BA	371	A
35	BA	386	G
35	BA	387	U
35	BA	388	G
35	BA	390	A
35	BA	396	G
35	BA	405	U
35	BA	406	G
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	434	U
35	BA	435	C
35	BA	444	C
35	BA	448	U
35	BA	451	C
35	BA	456	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	457	A
35	BA	470	A
35	BA	472	A
35	BA	473	G
35	BA	480	A
35	BA	481	G
35	BA	494	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	525	U
35	BA	527	C
35	BA	530	G
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	537	C
35	BA	556	G
35	BA	563	G
35	BA	573	G
35	BA	574	C
35	BA	575	A
35	BA	586	A
35	BA	588	U
35	BA	603	A
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	614(C)	A
35	BA	615	G
35	BA	616	G
35	BA	622	G
35	BA	627	A
35	BA	629	G
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	654(L)	G
35	BA	654(M)	C
35	BA	655	A
35	BA	656	G
35	BA	669	G
35	BA	670	A
35	BA	673	C
35	BA	686	G
35	BA	708	C
35	BA	709	U
35	BA	721	C
35	BA	722	A
35	BA	730	C
35	BA	753	C
35	BA	765	G
35	BA	776	G
35	BA	781	A
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	786	C
35	BA	788	A
35	BA	789	A
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	805	G
35	BA	806	C
35	BA	812	C
35	BA	819	A
35	BA	827	U
35	BA	828	U
35	BA	829	A
35	BA	830	G
35	BA	831	G
35	BA	846	C
35	BA	848	G
35	BA	854	G
35	BA	857	C
35	BA	859	G
35	BA	866	A
35	BA	872	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	878	A
35	BA	879	G
35	BA	885	C
35	BA	886	C
35	BA	887	A
35	BA	888	C
35	BA	889	C
35	BA	890	A
35	BA	895	U
35	BA	896	A
35	BA	897	C
35	BA	898	C
35	BA	899	A
35	BA	901	A
35	BA	907	U
35	BA	910	A
35	BA	915	C
35	BA	917	A
35	BA	926	A
35	BA	932	G
35	BA	933	A
35	BA	941	A
35	BA	945	A
35	BA	958	U
35	BA	959	A
35	BA	961	C
35	BA	962	G
35	BA	973	A
35	BA	974	G
35	BA	975	C
35	BA	975(A)	G
35	BA	983	A
35	BA	989	G
35	BA	990	A
35	BA	991	C
35	BA	996	A
35	BA	1005	C
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1022	G
35	BA	1025	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	1026	U
35	BA	1027	A
35	BA	1035	U
35	BA	1039	G
35	BA	1044	G
35	BA	1045	A
35	BA	1046	A
35	BA	1047	G
35	BA	1048	A
35	BA	1053	C
35	BA	1059	G
35	BA	1060	U
35	BA	1061	U
35	BA	1062	G
35	BA	1065	U
35	BA	1067	A
35	BA	1068	G
35	BA	1069	A
35	BA	1070	A
35	BA	1071	G
35	BA	1072	C
35	BA	1073	A
35	BA	1088	A
35	BA	1103	A
35	BA	1107	G
35	BA	1108	U
35	BA	1111	A
35	BA	1112	G
35	BA	1117	G
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1142(A)	A
35	BA	1143	A
35	BA	1155	A
35	BA	1161	C
35	BA	1167	U
35	BA	1171	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	1178	C
35	BA	1204	A
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1221	C
35	BA	1223	G
35	BA	1227	G
35	BA	1236	G
35	BA	1237	A
35	BA	1240	U
35	BA	1241	A
35	BA	1244	G
35	BA	1247	A
35	BA	1248	G
35	BA	1253	A
35	BA	1256	G
35	BA	1265	A
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U
35	BA	1274	A
35	BA	1292	U
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1314	C
35	BA	1319	G
35	BA	1321	A
35	BA	1332	G
35	BA	1349	A
35	BA	1352	U
35	BA	1359	A
35	BA	1365	A
35	BA	1367	A
35	BA	1368	G
35	BA	1378	A
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	1386	C
35	BA	1396	U
35	BA	1397	U
35	BA	1398	C
35	BA	1406	U
35	BA	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1419	A
35	BA	1420	U
35	BA	1421	G
35	BA	1427	A
35	BA	1428	C
35	BA	1436	G
35	BA	1445	A
35	BA	1449	A
35	BA	1450	G
35	BA	1451	C
35	BA	1455	G
35	BA	1460	A
35	BA	1467	C
35	BA	1471	A
35	BA	1475	G
35	BA	1478	G
35	BA	1482	G
35	BA	1485	G
35	BA	1490	A
35	BA	1493	C
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1499	C
35	BA	1502	C
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1514	U
35	BA	1517	G
35	BA	1518	U
35	BA	1520	G
35	BA	1528(A)	A
35	BA	1529	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	1536	C
35	BA	1541	G
35	BA	1542	A
35	BA	1543	C
35	BA	1544	A
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1588	C
35	BA	1591	G
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1614	A
35	BA	1615	C
35	BA	1616	A
35	BA	1617	C
35	BA	1640	C
35	BA	1648	C
35	BA	1654	A
35	BA	1666	G
35	BA	1667	G
35	BA	1674	G
35	BA	1690	A
35	BA	1694	C
35	BA	1698	A
35	BA	1699	G
35	BA	1717	G
35	BA	1718	G
35	BA	1721	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1742	G
35	BA	1744	C
35	BA	1748	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	1756	G
35	BA	1757	U
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1781	C
35	BA	1787	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1801	G
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1829	A
35	BA	1835	G
35	BA	1838	C
35	BA	1839	G
35	BA	1845	G
35	BA	1847	A
35	BA	1848	A
35	BA	1858	G
35	BA	1865	G
35	BA	1866	C
35	BA	1878	G
35	BA	1881	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1893	C
35	BA	1894	C
35	BA	1895	C
35	BA	1900	A
35	BA	1901	A
35	BA	1907	G
35	BA	1909	C
35	BA	1911	U
35	BA	1912	A
35	BA	1913	A
35	BA	1914	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	1915	U
35	BA	1916	A
35	BA	1920	C
35	BA	1921	G
35	BA	1924	C
35	BA	1925	C
35	BA	1926	U
35	BA	1927	A
35	BA	1928	A
35	BA	1929	G
35	BA	1930	G
35	BA	1936	A
35	BA	1937	A
35	BA	1938	A
35	BA	1940	U
35	BA	1948	G
35	BA	1949	G
35	BA	1955	U
35	BA	1963	U
35	BA	1964	G
35	BA	1965	C
35	BA	1967	C
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1981	A
35	BA	1982	C
35	BA	1987	G
35	BA	1992	G
35	BA	1993	U
35	BA	1997	G
35	BA	2023	G
35	BA	2031	A
35	BA	2032	G
35	BA	2033	A
35	BA	2034	U
35	BA	2035	G
35	BA	2036	C
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2077	A
35	BA	2093	G
35	BA	2100	G
35	BA	2102	U
35	BA	2103	C
35	BA	2104	G
35	BA	2105	C
35	BA	2107	C
35	BA	2109	U
35	BA	2111	C
35	BA	2112	G
35	BA	2113	U
35	BA	2116	G
35	BA	2117	A
35	BA	2118	U
35	BA	2127	G
35	BA	2129	C
35	BA	2131	G
35	BA	2132	U
35	BA	2133	G
35	BA	2145	C
35	BA	2146	C
35	BA	2147	G
35	BA	2156	G
35	BA	2159	G
35	BA	2160	G
35	BA	2172	U
35	BA	2173	A
35	BA	2174	C
35	BA	2178	C
35	BA	2179	C
35	BA	2180	U
35	BA	2185	C
35	BA	2186	G
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2193	G
35	BA	2198	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	2199	A
35	BA	2200	C
35	BA	2207	G
35	BA	2208	A
35	BA	2218	U
35	BA	2219	G
35	BA	2225	A
35	BA	2238	G
35	BA	2239	G
35	BA	2243	U
35	BA	2245	U
35	BA	2268	A
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2288	A
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2311	A
35	BA	2312	U
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2331	G
35	BA	2334	G
35	BA	2336	A
35	BA	2347	C
35	BA	2350	C
35	BA	2354	G
35	BA	2361	A
35	BA	2379	G
35	BA	2383	G
35	BA	2385	C
35	BA	2391	G
35	BA	2392	A
35	BA	2394	C
35	BA	2395	C
35	BA	2399	G
35	BA	2401	U
35	BA	2402	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	2423	U
35	BA	2424	C
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2472	G
35	BA	2475	C
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2483	C
35	BA	2499	C
35	BA	2502	G
35	BA	2505	G
35	BA	2518	A
35	BA	2520	C
35	BA	2524	G
35	BA	2529	G
35	BA	2543	G
35	BA	2554	U
35	BA	2561	A
35	BA	2566	A
35	BA	2567	G
35	BA	2572	A
35	BA	2576	G
35	BA	2577	A
35	BA	2578	G
35	BA	2602	A
35	BA	2610	C
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2641	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	2646	C
35	BA	2654	A
35	BA	2657	A
35	BA	2673	G
35	BA	2675	A
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2714	G
35	BA	2720	U
35	BA	2726	U
35	BA	2748	A
35	BA	2750	A
35	BA	2751	G
35	BA	2752	C
35	BA	2757	A
35	BA	2758	A
35	BA	2761	G
35	BA	2762	G
35	BA	2763	G
35	BA	2765	A
35	BA	2778	A
35	BA	2779	U
35	BA	2780	G
35	BA	2781	A
35	BA	2787	C
35	BA	2789	C
35	BA	2790	A
35	BA	2791	C
35	BA	2794	C
35	BA	2799	C
35	BA	2801	A
35	BA	2801(A)	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2818	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	2820	A
35	BA	2821	A
35	BA	2823	A
35	BA	2825	C
35	BA	2830	G
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U
35	BA	2850	A
35	BA	2858	C
35	BA	2861	G
35	BA	2872	G
35	BA	2873	A
35	BA	2879	C
35	BA	2894	G
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	17	C
36	BB	21	G
36	BB	25	A
36	BB	27	C
36	BB	35	U
36	BB	40	U
36	BB	41	U
36	BB	42	C
36	BB	43	C
36	BB	45	A
36	BB	53	A
36	BB	56	G
36	BB	57	A
36	BB	68	C
36	BB	73	A
36	BB	74	U
36	BB	81	G
36	BB	88	C
36	BB	91	C
36	BB	110	G

All (135) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	49	U
1	AA	60	A
1	AA	79	G
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	197	A
1	AA	202	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	274	A
1	AA	344	A
1	AA	351	G
1	AA	388	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	495	A
1	AA	508	C
1	AA	530	G
1	AA	547	A
1	AA	560	U
1	AA	575	G
1	AA	576	G
1	AA	687	A
1	AA	703	G
1	AA	748	C
1	AA	792	A
1	AA	870	U
1	AA	961	U
1	AA	968	A
1	AA	980	C
1	AA	982	U
1	AA	992	U
1	AA	1049	U
1	AA	1050	G
1	AA	1053	G
1	AA	1101	A
1	AA	1124	G
1	AA	1139	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1157	A
1	AA	1190	G
1	AA	1200	C
1	AA	1239	A
1	AA	1283	G
1	AA	1285	A
1	AA	1286	A
1	AA	1319	A
1	AA	1320	C
1	AA	1326	C
1	AA	1347	G
1	AA	1399	C
1	AA	1452	C
1	AA	1498	U
1	AA	1504	G
22	AV	17(A)	U
22	AV	26	G
22	AV	53	G
35	BA	50	U
35	BA	71	A
35	BA	74	A
35	BA	177	G
35	BA	199	A
35	BA	214	G
35	BA	221	A
35	BA	331	A
35	BA	332	A
35	BA	370	G
35	BA	387	U
35	BA	434	U
35	BA	472	A
35	BA	587	C
35	BA	603	A
35	BA	613	G
35	BA	614(C)	A
35	BA	654(K)	C
35	BA	752	A
35	BA	790	C
35	BA	829	A
35	BA	856	C
35	BA	886	C
35	BA	896	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	945	A
35	BA	1052	C
35	BA	1060	U
35	BA	1068	G
35	BA	1069	A
35	BA	1177	A
35	BA	1210	A
35	BA	1300	U
35	BA	1301	A
35	BA	1378	A
35	BA	1396	U
35	BA	1427	A
35	BA	1517	G
35	BA	1541	G
35	BA	1558	A
35	BA	1608	A
35	BA	1616	A
35	BA	1653	G
35	BA	1666	G
35	BA	1748	G
35	BA	1756	G
35	BA	1799	G
35	BA	1819	A
35	BA	1908	C
35	BA	1924	C
35	BA	1937	A
35	BA	1938	A
35	BA	1948	G
35	BA	1970	A
35	BA	1992	G
35	BA	1996	C
35	BA	2033	A
35	BA	2035	G
35	BA	2110	G
35	BA	2126	A
35	BA	2128	C
35	BA	2131	G
35	BA	2179	C
35	BA	2238	G
35	BA	2282	G
35	BA	2422	A
35	BA	2481	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BA	2497	A
35	BA	2543	G
35	BA	2610	C
35	BA	2689	U
35	BA	2756	U
35	BA	2762	G
35	BA	2801	A
36	BB	56	G

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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$
58	GCP	AY	1000	-	32,34,34	2.01	9 (28%)	49,54,54	1.08	5 (10%)

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
58	GCP	AY	1000	-	-	10/19/38/38	0/3/3/3

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	AY	1000	GCP	PB-O3A	5.83	1.64	1.58
58	AY	1000	GCP	C6-N1	4.68	1.47	1.38
58	AY	1000	GCP	C4-N3	3.75	1.42	1.34
58	AY	1000	GCP	C2-N3	3.53	1.41	1.33
58	AY	1000	GCP	PG-O2G	-2.90	1.48	1.55
58	AY	1000	GCP	C2-N1	2.65	1.44	1.37
58	AY	1000	GCP	C8-N9	2.37	1.42	1.37
58	AY	1000	GCP	PG-O1G	2.32	1.54	1.50
58	AY	1000	GCP	PG-O3G	-2.17	1.50	1.55

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	AY	1000	GCP	O3G-PG-O2G	2.77	115.84	107.96
58	AY	1000	GCP	O3G-PG-O1G	-2.73	105.32	112.39
58	AY	1000	GCP	O2G-PG-O1G	-2.43	106.11	112.39
58	AY	1000	GCP	PB-O3A-PA	-2.34	124.74	132.37
58	AY	1000	GCP	O2'-C2'-C3'	2.01	118.27	111.82

There are no chirality outliers.

All (10) torsion outliers are listed below:

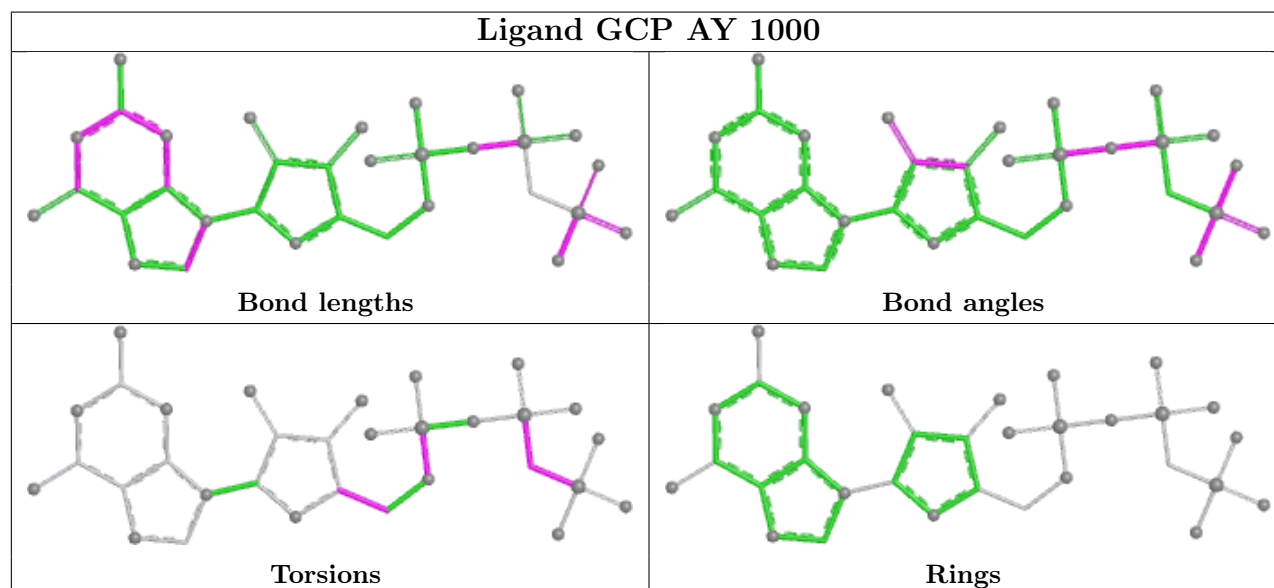
Mol	Chain	Res	Type	Atoms
58	AY	1000	GCP	PB-C3B-PG-O1G
58	AY	1000	GCP	PB-C3B-PG-O2G
58	AY	1000	GCP	PG-C3B-PB-O1B
58	AY	1000	GCP	PG-C3B-PB-O3A
58	AY	1000	GCP	C5'-O5'-PA-O3A
58	AY	1000	GCP	O4'-C4'-C5'-O5'
58	AY	1000	GCP	C3'-C4'-C5'-O5'
58	AY	1000	GCP	PB-C3B-PG-O3G
58	AY	1000	GCP	PG-C3B-PB-O2B
58	AY	1000	GCP	C5'-O5'-PA-O1A

There are no ring outliers.

1 monomer is involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
58	AY	1000	GCP	11	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
24	AY	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AY	444:LEU	C	445:GLN	N	1.12
1	AY	504:ILE	C	505:ALA	N	1.11

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	0.04	42 (2%) 55 38	52, 140, 199, 200	0
2	AB	235/256 (91%)	-0.17	3 (1%) 75 53	40, 110, 177, 200	0
3	AC	207/239 (86%)	-0.37	1 (0%) 87 71	37, 117, 174, 200	0
4	AD	208/209 (99%)	0.13	9 (4%) 40 28	48, 158, 200, 200	0
5	AE	151/162 (93%)	-0.15	5 (3%) 49 34	38, 112, 171, 200	0
6	AF	101/101 (100%)	-0.31	0 100 100	59, 135, 188, 200	0
7	AG	155/156 (99%)	-0.18	2 (1%) 75 53	46, 128, 189, 200	0
8	AH	138/138 (100%)	-0.22	6 (4%) 40 28	36, 114, 180, 200	0
9	AI	127/128 (99%)	-0.04	3 (2%) 59 41	32, 121, 172, 200	0
10	AJ	99/105 (94%)	0.10	4 (4%) 42 30	32, 125, 191, 200	0
11	AK	119/129 (92%)	-0.21	4 (3%) 48 33	40, 116, 179, 200	0
12	AL	125/135 (92%)	0.14	6 (4%) 35 26	45, 119, 192, 200	0
13	AM	125/126 (99%)	0.01	4 (3%) 50 35	64, 127, 200, 200	0
14	AN	60/61 (98%)	0.18	2 (3%) 49 34	28, 104, 172, 200	0
15	AO	88/89 (98%)	-0.09	2 (2%) 61 42	59, 130, 188, 200	0
16	AP	84/88 (95%)	0.30	5 (5%) 27 22	79, 156, 200, 200	0
17	AQ	100/105 (95%)	0.19	6 (6%) 27 22	66, 141, 200, 200	0
18	AR	70/88 (79%)	-0.15	1 (1%) 73 51	59, 124, 176, 200	0
19	AS	79/93 (84%)	-0.21	2 (2%) 58 40	57, 118, 197, 200	0
20	AT	99/106 (93%)	0.49	10 (10%) 12 14	87, 153, 200, 200	0
21	AU	25/27 (92%)	0.40	0 100 100	46, 117, 175, 185	0
22	AV	77/77 (100%)	-0.31	0 100 100	77, 151, 189, 199	0
23	AX	9/9 (100%)	0.42	0 100 100	79, 156, 192, 199	0
24	AY	496/529 (93%)	0.00	14 (2%) 55 38	71, 170, 202, 202	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
25	B0	84/85 (98%)	0.12	2 (2%) 59 41	37, 118, 194, 200	0
26	B1	94/98 (95%)	0.18	5 (5%) 32 24	65, 143, 197, 200	0
27	B2	71/72 (98%)	-0.28	1 (1%) 73 51	101, 153, 200, 200	0
28	B3	60/60 (100%)	-0.02	3 (5%) 34 25	54, 126, 198, 200	0
29	B4	45/71 (63%)	-0.51	0 100 100	108, 174, 200, 200	0
30	B5	59/60 (98%)	0.29	3 (5%) 33 25	62, 150, 200, 200	0
31	B6	50/54 (92%)	0.13	1 (2%) 65 44	62, 139, 186, 200	0
32	B7	49/49 (100%)	0.61	5 (10%) 12 14	78, 153, 197, 200	0
33	B8	64/65 (98%)	0.77	10 (15%) 5 8	66, 129, 179, 200	0
34	B9	37/37 (100%)	1.12	10 (27%) 1 3	71, 142, 178, 194	0
35	BA	2901/2915 (99%)	0.17	118 (4%) 41 30	51, 159, 201, 202	0
36	BB	119/122 (97%)	-0.23	1 (0%) 82 62	66, 123, 172, 190	0
37	BC	228/229 (99%)	0.76	26 (11%) 10 13	87, 182, 200, 200	0
38	BD	275/276 (99%)	0.27	20 (7%) 21 19	40, 117, 175, 200	0
39	BE	205/206 (99%)	0.22	14 (6%) 23 20	51, 143, 199, 200	0
40	BF	208/210 (99%)	0.10	4 (1%) 66 45	51, 156, 200, 200	0
41	BG	181/182 (99%)	-0.05	3 (1%) 69 47	47, 134, 194, 200	0
42	BH	156/180 (86%)	-0.04	2 (1%) 75 53	78, 165, 200, 200	0
43	BJ	1/173 (0%)	0.29	0 100 100	174, 174, 174, 174	0
44	BK	0/147	-	-	-	-
45	BN	139/140 (99%)	0.09	5 (3%) 46 32	69, 131, 190, 200	0
46	BO	122/122 (100%)	0.13	6 (4%) 35 26	59, 133, 198, 200	0
47	BP	146/150 (97%)	0.27	11 (7%) 20 18	65, 147, 200, 200	0
48	BQ	141/141 (100%)	-0.03	8 (5%) 29 23	20, 107, 171, 200	0
49	BR	117/118 (99%)	0.36	11 (9%) 14 16	81, 169, 200, 200	0
50	BS	99/112 (88%)	0.25	6 (6%) 27 22	49, 123, 194, 200	0
51	BT	138/146 (94%)	-0.14	2 (1%) 73 51	89, 162, 200, 200	0
52	BU	117/118 (99%)	0.12	5 (4%) 40 28	47, 121, 179, 200	0
53	BV	101/101 (100%)	0.16	5 (4%) 34 25	42, 146, 200, 200	0
54	BW	113/113 (100%)	0.32	5 (4%) 39 28	78, 165, 200, 200	0
55	BX	93/96 (96%)	0.33	5 (5%) 31 24	38, 167, 200, 200	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
56	BY	101/110 (91%)	0.24	6 (5%) 28 23	86, 169, 200, 200	0
57	BZ	176/206 (85%)	-0.24	2 (1%) 78 56	43, 122, 195, 200	0
All	All	10971/11642 (94%)	0.09	436 (3%) 42 30	20, 146, 200, 202	0

All (436) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
38	BD	276	LYS	14.1
37	BC	165	ASN	8.8
11	AK	126	ARG	7.8
38	BD	36	PRO	7.0
41	BG	35	GLU	6.8
1	AA	619	U	6.6
37	BC	173	ALA	6.5
37	BC	174	PRO	6.3
53	BV	82	ARG	6.2
37	BC	219	GLY	6.2
54	BW	10	VAL	6.2
35	BA	654(K)	C	5.8
35	BA	1091	G	5.7
37	BC	218	MET	5.6
37	BC	216	THR	5.6
37	BC	172	HIS	5.6
32	B7	35	ARG	5.5
51	BT	1	MET	5.3
45	BN	46	VAL	5.3
13	AM	100	GLY	5.3
20	AT	25	ARG	5.3
1	AA	82	U	5.2
35	BA	1543	C	5.2
1	AA	89	C	5.2
46	BO	32	TYR	5.2
9	AI	66	ARG	5.1
56	BY	102	CYS	4.9
13	AM	117	VAL	4.9
35	BA	654(S)	G	4.9
35	BA	275	G	4.8
35	BA	1065	U	4.8
37	BC	43	VAL	4.7
35	BA	2712(A)	A	4.7
35	BA	1090	U	4.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	BD	262	ARG	4.6
52	BU	91	ASP	4.6
12	AL	91	LYS	4.6
35	BA	1076	C	4.6
37	BC	217	THR	4.6
47	BP	15	ARG	4.5
35	BA	654(H)	G	4.5
34	B9	28	GLU	4.4
34	B9	1	MET	4.4
35	BA	1092	C	4.4
53	BV	80	GLN	4.4
35	BA	676	A	4.4
45	BN	47	ALA	4.3
24	AY	109	CYS	4.3
47	BP	75	ILE	4.3
35	BA	654(V)	A	4.2
35	BA	1647	G	4.2
17	AQ	30	PRO	4.2
39	BE	149	ARG	4.1
20	AT	9	ASN	4.1
49	BR	112	ALA	4.1
17	AQ	31	LEU	4.0
34	B9	3	VAL	4.0
8	AH	99	GLU	4.0
35	BA	1066	U	4.0
17	AQ	33	GLY	3.9
35	BA	31	C	3.9
54	BW	22	ASP	3.9
37	BC	41	VAL	3.8
37	BC	214	VAL	3.8
37	BC	113	VAL	3.8
48	BQ	141	GLN	3.8
35	BA	654(T)	C	3.8
20	AT	64	ASP	3.8
39	BE	125	GLY	3.8
35	BA	1646	C	3.8
35	BA	2062	A	3.7
39	BE	152	LYS	3.7
20	AT	23	ARG	3.7
1	AA	632	A	3.7
24	AY	256	PHE	3.7
35	BA	810	U	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
4	AD	9	CYS	3.7
35	BA	654(L)	G	3.7
24	AY	18	ILE	3.7
57	BZ	97	GLU	3.7
24	AY	17	ALA	3.6
52	BU	41	ALA	3.6
38	BD	273	ARG	3.6
47	BP	27	HIS	3.6
38	BD	258	LYS	3.6
35	BA	958	U	3.6
4	AD	2	GLY	3.6
38	BD	275	LYS	3.6
46	BO	26	LYS	3.6
1	AA	930	C	3.6
20	AT	62	LEU	3.6
35	BA	1093	G	3.6
35	BA	1274	A	3.6
1	AA	97	G	3.6
24	AY	108	CYS	3.6
24	AY	77	PHE	3.6
33	B8	57	ARG	3.5
15	AO	35	ARG	3.5
55	BX	79	ALA	3.5
1	AA	81	U	3.5
35	BA	1534	U	3.5
1	AA	93	G	3.5
11	AK	129	SER	3.5
37	BC	161	ILE	3.5
35	BA	654(U)	A	3.4
35	BA	790	C	3.4
1	AA	96	U	3.4
1	AA	620	C	3.4
1	AA	792	A	3.4
32	B7	42	LEU	3.4
49	BR	3	HIS	3.4
35	BA	812	C	3.4
48	BQ	39	PRO	3.4
24	AY	34	LEU	3.3
35	BA	2443	C	3.3
35	BA	764	A	3.3
46	BO	31	LYS	3.3
53	BV	70	ILE	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
8	AH	131	GLY	3.3
48	BQ	140	ALA	3.3
35	BA	1078	U	3.3
35	BA	1094	U	3.3
16	AP	8	ARG	3.3
35	BA	2310	A	3.3
34	B9	37	GLY	3.3
37	BC	189	ILE	3.2
39	BE	157	ALA	3.2
26	B1	32	LYS	3.2
35	BA	946	G	3.2
45	BN	80	GLY	3.2
1	AA	328	C	3.2
37	BC	95	GLY	3.2
47	BP	44	GLY	3.2
25	B0	21	LEU	3.2
13	AM	102	ARG	3.2
1	AA	389	A	3.2
49	BR	38	VAL	3.2
40	BF	69	HIS	3.2
56	BY	8	LYS	3.2
1	AA	1267	C	3.1
39	BE	138	PRO	3.1
17	AQ	32	TYR	3.1
39	BE	123	ALA	3.1
35	BA	1420	U	3.1
38	BD	38	LYS	3.1
25	B0	55	ARG	3.1
5	AE	85	GLY	3.1
11	AK	118	GLY	3.1
16	AP	17	TYR	3.0
50	BS	33	LYS	3.0
33	B8	65	GLU	3.0
38	BD	7	LYS	3.0
35	BA	1574	C	3.0
5	AE	27	ARG	3.0
35	BA	1311	G	3.0
1	AA	88	A	3.0
3	AC	2	GLY	3.0
50	BS	88	ASP	3.0
56	BY	79	CYS	3.0
48	BQ	40	ALA	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
4	AD	77	ASN	2.9
56	BY	35	TYR	2.9
1	AA	729	A	2.9
54	BW	8	ARG	2.9
37	BC	44	HIS	2.9
37	BC	212	VAL	2.9
48	BQ	95	ALA	2.9
35	BA	1077	A	2.9
26	B1	69	LYS	2.9
14	AN	2	ALA	2.9
17	AQ	28	PRO	2.9
1	AA	622	A	2.8
35	BA	268	C	2.8
49	BR	26	LYS	2.8
10	AJ	73	ASP	2.8
35	BA	33	U	2.8
1	AA	91	C	2.8
24	AY	111	MET	2.8
35	BA	2690	C	2.8
24	AY	110	LEU	2.8
38	BD	251	GLY	2.8
1	AA	1493	A	2.8
15	AO	48	LYS	2.8
10	AJ	46	ARG	2.8
16	AP	18	ARG	2.8
26	B1	20	ARG	2.8
24	AY	87	LEU	2.8
34	B9	26	ILE	2.8
7	AG	2	ALA	2.8
8	AH	1	MET	2.8
5	AE	88	LYS	2.8
31	B6	53	LYS	2.8
32	B7	23	ARG	2.8
37	BC	25	ALA	2.8
2	AB	133	LYS	2.7
24	AY	299	PHE	2.7
39	BE	153	GLY	2.7
1	AA	142	G	2.7
34	B9	22	ARG	2.7
10	AJ	55	LYS	2.7
24	AY	349	MET	2.7
55	BX	7	VAL	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BA	2894	G	2.7
47	BP	82	GLY	2.7
2	AB	106	LYS	2.7
35	BA	115	C	2.7
56	BY	3	VAL	2.6
1	AA	1519	A	2.6
35	BA	654(D)	G	2.6
35	BA	654(E)	G	2.6
35	BA	956	G	2.6
57	BZ	165	VAL	2.6
35	BA	1067	A	2.6
37	BC	45	ALA	2.6
4	AD	135	LEU	2.6
35	BA	1250	G	2.6
52	BU	90	VAL	2.6
12	AL	28	LYS	2.6
35	BA	1499	C	2.6
39	BE	137	HIS	2.6
40	BF	181	LEU	2.6
35	BA	338	G	2.6
35	BA	512	G	2.6
28	B3	18	ASP	2.6
9	AI	118	LYS	2.6
35	BA	271(Z)	C	2.6
16	AP	6	LEU	2.6
33	B8	28	GLY	2.6
45	BN	43	THR	2.5
12	AL	120	TYR	2.5
37	BC	209	LEU	2.5
1	AA	527	G	2.5
34	B9	34	GLN	2.5
35	BA	2023	G	2.5
35	BA	2724	C	2.5
54	BW	103	ILE	2.5
38	BD	218	ARG	2.5
47	BP	33	ARG	2.5
35	BA	1272	A	2.5
8	AH	100	ILE	2.5
38	BD	147	LEU	2.5
35	BA	53	A	2.5
19	AS	81	ARG	2.5
24	AY	114	ASP	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	B8	44	LYS	2.5
41	BG	36	LYS	2.5
55	BX	72	LYS	2.5
35	BA	2681	C	2.5
35	BA	1238	G	2.5
35	BA	2052	G	2.5
33	B8	48	PHE	2.5
12	AL	20	LYS	2.5
28	B3	17	LYS	2.5
32	B7	14	LYS	2.5
33	B8	39	LYS	2.5
35	BA	654(J)	A	2.5
37	BC	196	LEU	2.5
55	BX	60	ARG	2.5
37	BC	35	ALA	2.4
12	AL	19	ARG	2.4
37	BC	1	PRO	2.4
35	BA	654(Q)	C	2.4
35	BA	1075	C	2.4
35	BA	1609	A	2.4
35	BA	1641	A	2.4
20	AT	24	LEU	2.4
8	AH	90	GLY	2.4
48	BQ	18	LYS	2.4
39	BE	73	GLU	2.4
35	BA	961	C	2.4
38	BD	183	ARG	2.4
4	AD	154	ASN	2.4
40	BF	50	SER	2.4
42	BH	58	GLU	2.4
4	AD	7	PRO	2.4
47	BP	84	ASN	2.4
50	BS	90	GLY	2.4
38	BD	33	LEU	2.4
35	BA	2063	C	2.4
45	BN	74	ARG	2.4
35	BA	1984	G	2.4
35	BA	2802	G	2.4
40	BF	175	THR	2.4
33	B8	64	TYR	2.4
8	AH	132	GLU	2.4
35	BA	2109	U	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BA	2179	C	2.3
49	BR	18	LEU	2.3
9	AI	114	TYR	2.3
49	BR	21	TYR	2.3
5	AE	86	ALA	2.3
35	BA	654(C)	G	2.3
47	BP	87	ASP	2.3
38	BD	237	GLU	2.3
17	AQ	27	PHE	2.3
56	BY	32	PRO	2.3
33	B8	59	LYS	2.3
34	B9	15	LYS	2.3
1	AA	916	G	2.3
35	BA	2362	G	2.3
39	BE	127	ASP	2.3
48	BQ	14	ARG	2.3
2	AB	196	LEU	2.3
5	AE	19	MET	2.3
20	AT	71	THR	2.3
39	BE	107	THR	2.3
1	AA	80	G	2.3
1	AA	324	G	2.3
1	AA	730	G	2.3
35	BA	715	G	2.3
27	B2	60	LEU	2.3
35	BA	1955	U	2.3
47	BP	31	ALA	2.3
35	BA	2054	A	2.3
1	AA	217	C	2.3
38	BD	42	GLY	2.3
46	BO	76	ALA	2.2
35	BA	274	G	2.2
35	BA	654(N)	G	2.2
35	BA	1273	U	2.2
7	AG	33	ASP	2.2
13	AM	123	ALA	2.2
46	BO	30	ALA	2.2
50	BS	37	ALA	2.2
35	BA	32	C	2.2
35	BA	1575	C	2.2
35	BA	2785	C	2.2
41	BG	129	GLY	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	306	G	2.2
35	BA	1440	G	2.2
35	BA	2238	G	2.2
4	AD	121	VAL	2.2
49	BR	45	ARG	2.2
1	AA	143	A	2.2
35	BA	1360	A	2.2
35	BA	1384	A	2.2
1	AA	554	C	2.2
35	BA	2174	C	2.2
35	BA	2874	C	2.2
33	B8	63	PRO	2.2
1	AA	1414	U	2.2
35	BA	1033	U	2.2
38	BD	39	LYS	2.2
30	B5	24	ALA	2.2
20	AT	20	LEU	2.2
35	BA	1088	A	2.2
49	BR	24	GLN	2.2
53	BV	20	LEU	2.2
10	AJ	5	ARG	2.2
38	BD	9	TYR	2.2
35	BA	57	C	2.2
35	BA	1079	C	2.2
35	BA	1546	C	2.2
39	BE	114	ALA	2.1
52	BU	45	TYR	2.1
16	AP	9	PHE	2.1
20	AT	68	LYS	2.1
38	BD	8	PRO	2.1
55	BX	33	LYS	2.1
35	BA	1020	A	2.1
35	BA	1785	A	2.1
35	BA	1277	G	2.1
35	BA	1703	G	2.1
53	BV	71	LEU	2.1
34	B9	4	ARG	2.1
49	BR	12	ARG	2.1
1	AA	824	C	2.1
48	BQ	41	TRP	2.1
50	BS	96	GLY	2.1
1	AA	1257	U	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	AY	444	LEU	2.1
35	BA	614(A)	U	2.1
35	BA	2132	U	2.1
50	BS	30	ARG	2.1
28	B3	13	ILE	2.1
12	AL	29	GLY	2.1
51	BT	99	LEU	2.1
1	AA	953	G	2.1
35	BA	179	G	2.1
1	AA	177	C	2.1
26	B1	21	ARG	2.1
1	AA	1125	U	2.1
35	BA	2130	U	2.1
30	B5	23	HIS	2.1
14	AN	28	GLY	2.1
33	B8	40	GLU	2.1
4	AD	122	ARG	2.1
1	AA	325	A	2.1
26	B1	37	ILE	2.1
35	BA	1156	A	2.1
35	BA	2503	A	2.1
35	BA	2629	A	2.1
18	AR	81	PHE	2.1
38	BD	51	VAL	2.1
35	BA	614(B)	G	2.1
35	BA	1074	G	2.1
49	BR	43	GLU	2.1
35	BA	2584	U	2.1
39	BE	131	ALA	2.1
52	BU	42	ALA	2.1
47	BP	83	VAL	2.1
49	BR	11	ASN	2.1
37	BC	185	LEU	2.1
1	AA	728	A	2.0
1	AA	1398	A	2.0
20	AT	16	HIS	2.0
35	BA	52	A	2.0
35	BA	1618	A	2.0
36	BB	90	A	2.0
38	BD	211	ARG	2.0
54	BW	18	ARG	2.0
32	B7	48	LYS	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BA	414	C	2.0
35	BA	654(P)	C	2.0
35	BA	2442	C	2.0
1	AA	818	G	2.0
35	BA	947	G	2.0
35	BA	2024	G	2.0
30	B5	22	HIS	2.0
46	BO	75	SER	2.0
35	BA	199	A	2.0
35	BA	2801	A	2.0
11	AK	119	CYS	2.0
34	B9	14	CYS	2.0
4	AD	95	GLY	2.0
37	BC	164	ARG	2.0
39	BE	158	GLY	2.0
47	BP	64	LYS	2.0
19	AS	59	PRO	2.0
42	BH	148	ILE	2.0
1	AA	92	C	2.0
1	AA	732	C	2.0
35	BA	654(I)	C	2.0
35	BA	1072	C	2.0
35	BA	1607	C	2.0
37	BC	42	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

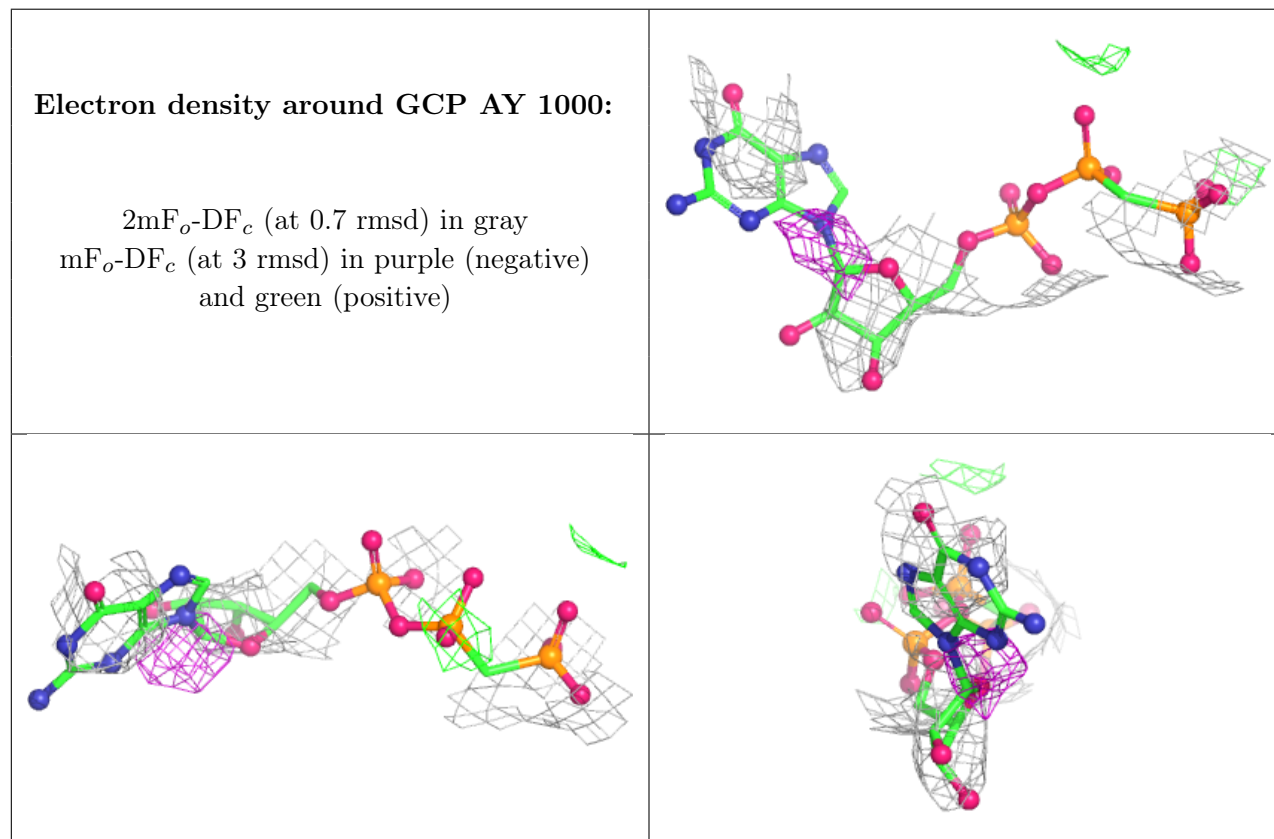
There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	GCP	AY	1000	32/32	0.86	0.08	95,109,121,122	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers [i](#)

There are no such residues in this entry.