



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 22, 2024 – 11:07 PM EDT

PDB ID : 4V7Z  
Title : Structure of the *Thermus thermophilus* 70S ribosome complexed with telithromycin.  
Authors : Bulkley, D.P.; Innis, C.A.; Blaha, G.; Steitz, T.A.  
Deposited on : 2010-08-18  
Resolution : 3.10 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](mailto: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 : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtrriage (Phenix) : 1.20.1  
EDS : 3.0  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
CCP4 : 9.0.003 (Gargrove)  
Density-Fitness : 1.0.11  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

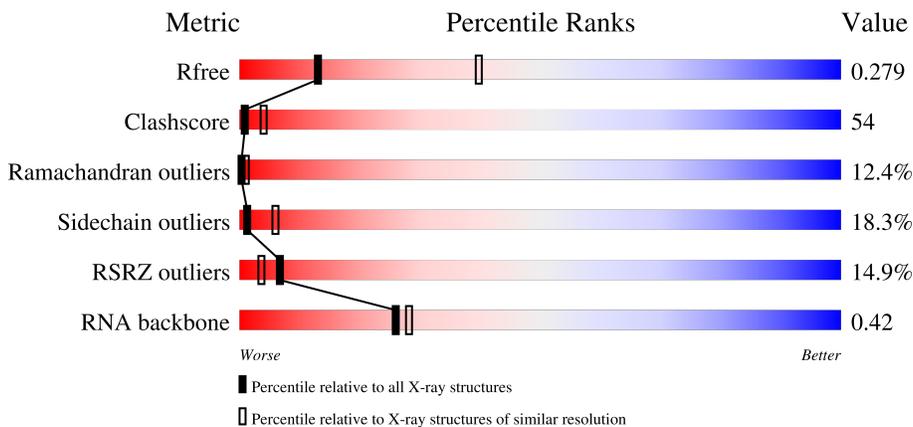
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.10 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))
$R_{free}$	164625	1351 (3.10-3.10)
Clashscore	180529	1454 (3.10-3.10)
Ramachandran outliers	177936	1391 (3.10-3.10)
Sidechain outliers	177891	1391 (3.10-3.10)
RSRZ outliers	164620	1351 (3.10-3.10)
RNA backbone	3690	1021 (3.36-2.84)

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  $\geq 3$ , 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	
1	CA	1522	
2	AB	256	
2	CB	256	

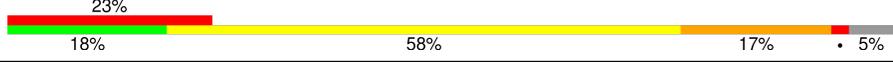
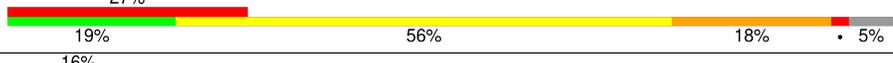
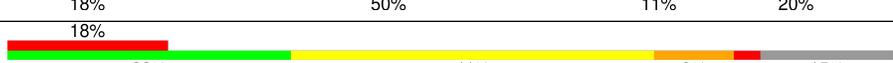
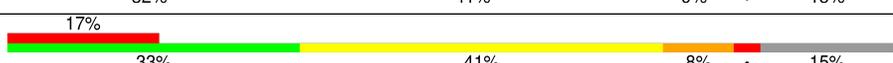
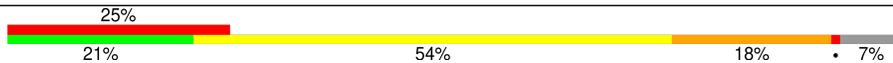
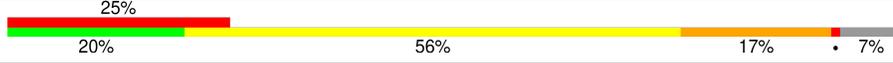
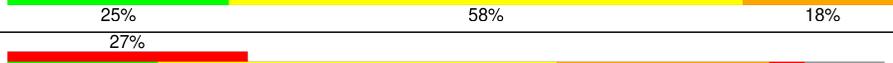
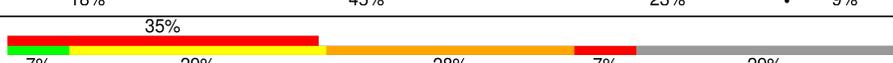
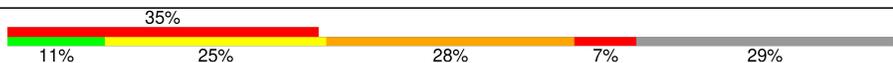
*Continued on next page...*

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	135	
12	CL	135	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	B0	85	
22	D0	85	
23	B1	98	
23	D1	98	
24	B2	72	
24	D2	72	
25	B3	60	
25	D3	60	
26	B4	71	
26	D4	71	
27	B5	60	
27	D5	60	

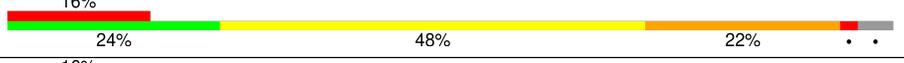
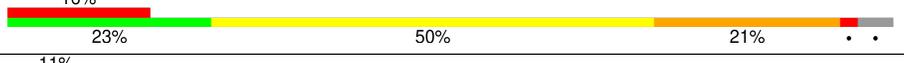
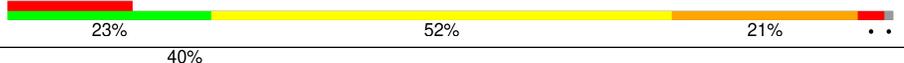
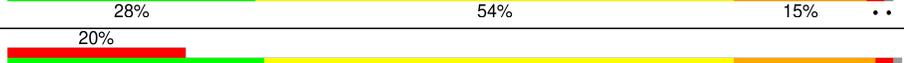
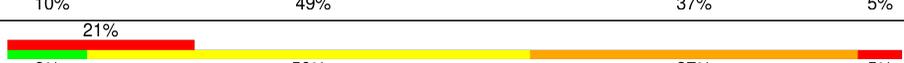
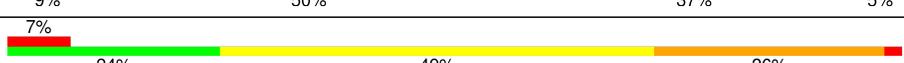
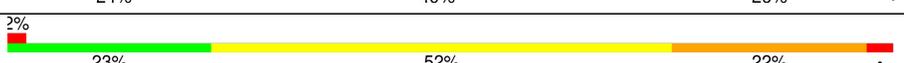
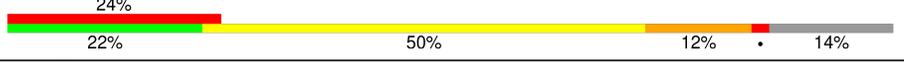
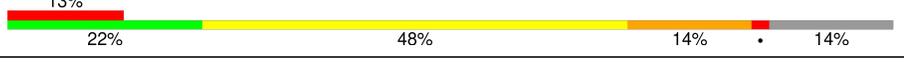
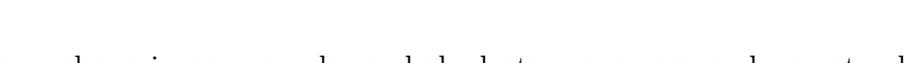
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
28	B6	54	
28	D6	54	
29	B7	49	
29	D7	49	
30	B8	65	
30	D8	65	
31	BA	2787	
31	DA	2787	
32	BB	122	
32	DB	122	
33	BD	276	
33	DD	276	
34	BE	206	
34	DE	206	
35	BF	210	
35	DF	210	
36	BG	182	
36	DG	182	
37	BH	180	
37	DH	180	
38	BI	148	
38	DI	148	
39	BN	140	
39	DN	140	
40	BO	122	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
40	DO	122	
41	BP	150	
41	DP	150	
42	BQ	141	
42	DQ	141	
43	BR	118	
43	DR	118	
44	BS	112	
44	DS	112	
45	BT	146	
45	DT	146	
46	BU	118	
46	DU	118	
47	BV	101	
47	DV	101	
48	BW	113	
48	DW	113	
49	BX	96	
49	DX	96	
50	BY	110	
50	DY	110	
51	BZ	206	
51	DZ	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
52	MG	AA	1618	-	-	-	X
52	MG	BA	3039	-	-	-	X
52	MG	BA	3166	-	-	-	X
52	MG	BA	3219	-	-	-	X
52	MG	CA	1626	-	-	-	X
52	MG	CA	1643	-	-	-	X
52	MG	DA	3071	-	-	-	X
52	MG	DA	3090	-	-	-	X
52	MG	DA	3131	-	-	-	X
52	MG	DA	3150	-	-	-	X
52	MG	DA	3236	-	-	-	X
52	MG	DA	3311	-	-	-	X
55	TEL	BA	3362	-	-	X	-
55	TEL	DA	3320	-	-	X	-

## 2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 278037 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
			Total	C	N	O	P			
1	AA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0
1	CA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0

- Molecule 2 is a protein called 30S ribosomal protein S2.

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

- Molecule 3 is a protein called 30S ribosomal protein S3.

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

- Molecule 4 is a protein called 30S ribosomal protein S4.

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

- 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			
5	CE	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			
6	CF	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			
7	CG	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			
8	CH	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			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There are 2 discrepancies between the modelled and reference sequences:

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

- Molecule 10 is a protein called 30S ribosomal protein S10.

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

- Molecule 11 is a protein called 30S ribosomal protein S11.

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

- Molecule 12 is a protein called 30S ribosomal protein S12.

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

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	2	VAL	-	insertion	UNP Q5SHN3
AL	3	ALA	-	insertion	UNP Q5SHN3
AL	4	LEU	-	insertion	UNP Q5SHN3
CL	2	VAL	-	insertion	UNP Q5SHN3
CL	3	ALA	-	insertion	UNP Q5SHN3
CL	4	LEU	-	insertion	UNP Q5SHN3

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AM	115	921	569	190	160	2	0	0	0
13	CM	115	921	569	190	160	2	0	0	0

- Molecule 14 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CN	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			
15	CO	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			
16	CP	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			
17	CQ	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			
18	CR	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			

*Continued on next page...*

*Continued from previous page...*

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

- Molecule 20 is a protein called 30S ribosomal protein S20.

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

- Molecule 21 is a protein called 30S ribosomal protein Thx.

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

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
22	B0	85	650	401	137	111	1	0	0	0
22	D0	85	650	401	137	111	1	0	0	0

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
23	B1	89	693	435	140	118	0	0	1
23	D1	89	693	435	140	118	0	0	1

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
24	B2	51	421	263	85	72	1	0	0	1
24	D2	51	421	263	85	72	1	0	0	1

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
25	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B4	32	Total	C	N	O	0	0	0
			157	93	32	32			
26	D4	32	Total	C	N	O	0	0	0
			157	93	32	32			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			
27	D5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
28	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
29	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
30	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 31 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			
31	DA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			

- Molecule 32 is a RNA chain called 5S ribosomal RNA.

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

- Molecule 33 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
33	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

- Molecule 34 is a protein called 50S ribosomal protein L3.

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

- Molecule 35 is a protein called 50S ribosomal protein L4.

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

*Continued on next page...*

*Continued from previous page...*

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

- Molecule 36 is a protein called 50S ribosomal protein L5.

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

- Molecule 37 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
37	BH	160	1223	773	229	220	1	0	0	1
37	DH	160	1223	773	229	220	1	0	0	1

- Molecule 38 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
38	BI	146	1132	723	201	207	1	0	0	1
38	DI	146	1132	723	201	207	1	0	0	1

- Molecule 39 is a protein called 50S ribosomal protein L13.

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

- Molecule 40 is a protein called 50S ribosomal protein L14.

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

- Molecule 41 is a protein called 50S ribosomal protein L15.

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

- Molecule 42 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			
42	DQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 43 is a protein called 50S ribosomal protein L17.

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

- Molecule 44 is a protein called 50S ribosomal protein L18.

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

- Molecule 45 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			
45	DT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			

- Molecule 46 is a protein called 50S ribosomal protein L20.

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

- Molecule 47 is a protein called 50S ribosomal protein L21.

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

- Molecule 48 is a protein called 50S ribosomal protein L22.

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

- Molecule 49 is a protein called 50S ribosomal protein L23.

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

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

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

- Molecule 51 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	DZ	177	1404	897	253	252	2	0	0	1

- Molecule 52 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
52	AA	52	Total	Mg	0	0
			52	52		
52	B0	1	Total	Mg	0	0
			1	1		
52	B1	1	Total	Mg	0	0
			1	1		
52	B5	2	Total	Mg	0	0
			2	2		
52	B7	1	Total	Mg	0	0
			1	1		
52	BA	360	Total	Mg	0	0
			360	360		
52	BB	7	Total	Mg	0	0
			7	7		
52	BD	2	Total	Mg	0	0
			2	2		
52	BF	1	Total	Mg	0	0
			1	1		
52	BP	3	Total	Mg	0	0
			3	3		
52	BQ	2	Total	Mg	0	0
			2	2		
52	BR	1	Total	Mg	0	0
			1	1		
52	BU	1	Total	Mg	0	0
			1	1		
52	BX	1	Total	Mg	0	0
			1	1		
52	CA	50	Total	Mg	0	0
			50	50		
52	D5	1	Total	Mg	0	0
			1	1		
52	D7	1	Total	Mg	0	0
			1	1		
52	D8	1	Total	Mg	0	0
			1	1		

*Continued on next page...*

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
52	DA	318	Total Mg 318 318	0	0
52	DB	3	Total Mg 3 3	0	0
52	DD	2	Total Mg 2 2	0	0
52	DE	1	Total Mg 1 1	0	0
52	DF	1	Total Mg 1 1	0	0
52	DP	1	Total Mg 1 1	0	0
52	DQ	1	Total Mg 1 1	0	0
52	DR	2	Total Mg 2 2	0	0
52	DU	1	Total Mg 1 1	0	0
52	DX	1	Total Mg 1 1	0	0

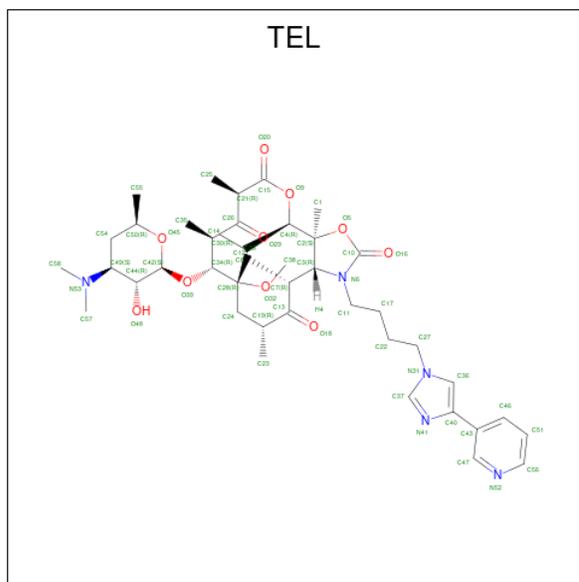
- Molecule 53 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	AD	1	Total Zn 1 1	0	0
53	AN	1	Total Zn 1 1	0	0
53	CD	1	Total Zn 1 1	0	0
53	CN	1	Total Zn 1 1	0	0

- Molecule 54 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	BA	1	Total K 1 1	0	0
54	DA	1	Total K 1 1	0	0

- Molecule 55 is TELITHROMYCIN (three-letter code: TEL) (formula: C<sub>43</sub>H<sub>65</sub>N<sub>5</sub>O<sub>10</sub>).



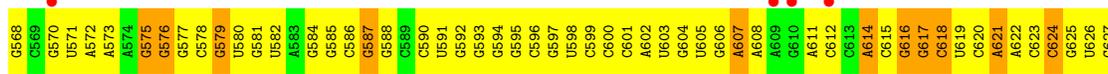
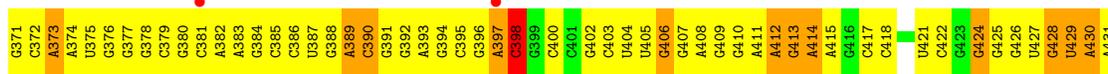
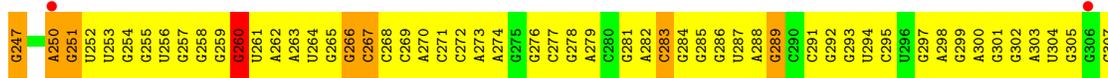
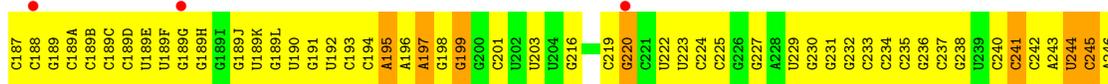
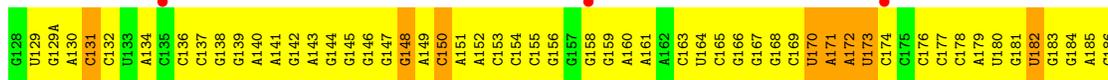
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	N			O
55	BA	1	58	43	5	10	0	0
55	DA	1	58	43	5	10	0	0

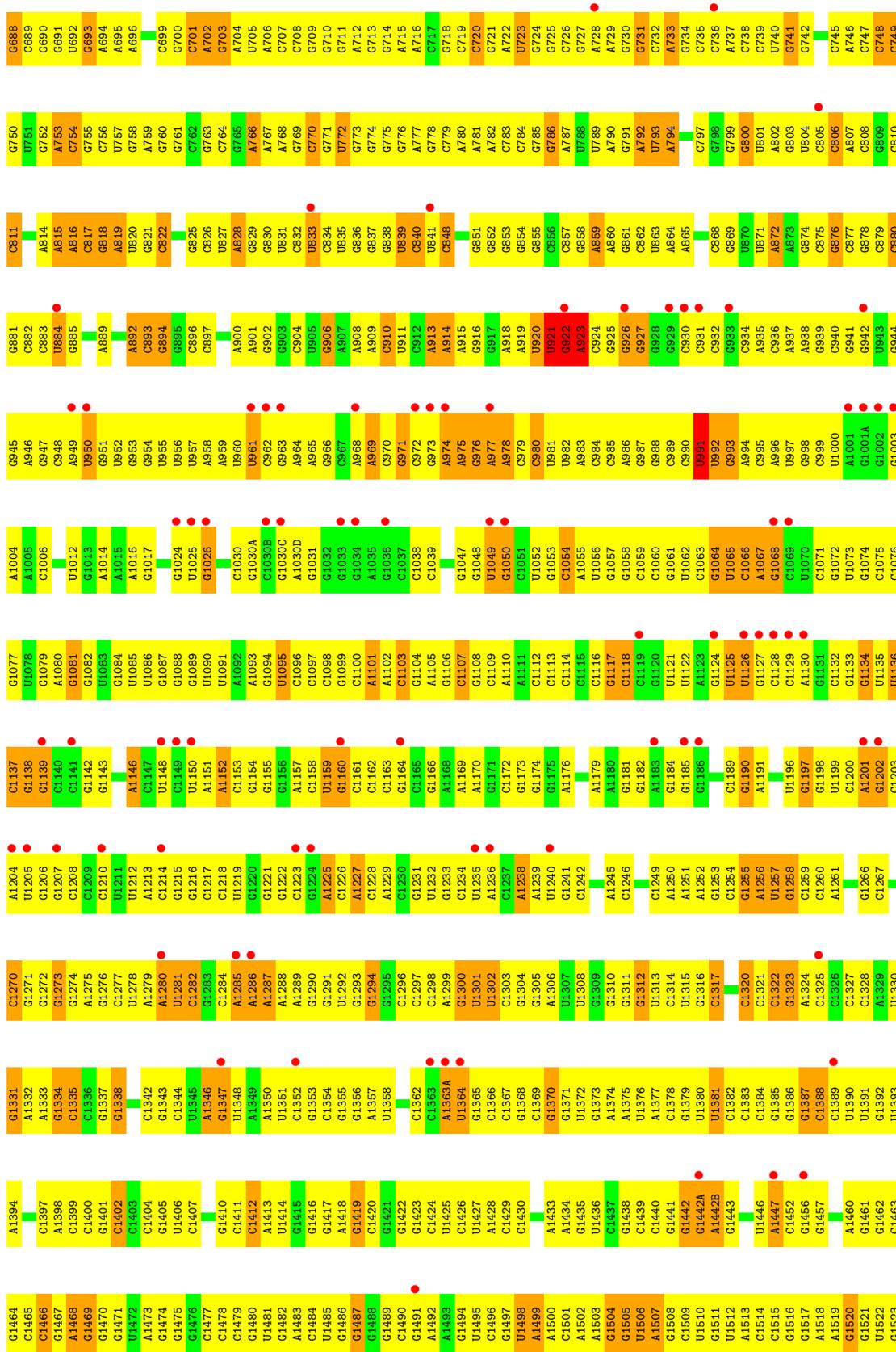


U636	U637	U638	U639	U640	U641	U642	U643	U644	U645	U646	U647	U648	U649	U650	U651	U652	U653	U654	U655	U656	U657	U658	U659	U660	U661	U662	U663	U664	U665	U666	U667	U668	U669	U670	U671	U672	U673	U674	U675	U676	U677	U678	U679	U680	U681	U682	U683	U684	U685	U686	U687	U688	U689	U690	U691	U692	U693	U694	U695	U696	U697	U698	U699	U700	U701	U702	U703	U704	U705	U706	U707	U708	U709	U710	U711	U712	U713	U714	U715	U716	U717	U718	U719	U720	U721	U722	U723	U724	U725	U726	U727	U728	U729	U730	U731	U732	U733	U734	U735	U736	U737	U738	U739	U740	U741	U742	U743	U744	U745	U746	U747	U748	U749	U750	U751	U752	U753	U754	U755	U756	U757	U758	U759	U760	U761	U762	U763	U764	U765	U766	U767	U768	U769	U770	U771	U772	U773	U774	U775	U776	U777	U778	U779	U780	U781	U782	U783	U784	U785	U786	U787	U788	U789	U790	U791	U792	U793	U794	U795	U796	U797	U798	U799	U800	U801	U802	U803	U804	U805	U806	U807	U808	U809	U810	U811	U812	U813	U814	U815	U816	U817	U818	U819	U820	U821	U822	U823	U824	U825	U826	U827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	U842	U843	U844	U845	U846	U847	U848	U849	U850	U851	U852	U853	U854	U855	U856	U857	U858	U859	U860	U861	U862	U863	U864	U865	U866	U867	U868	U869	U870	U871	U872	U873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	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	U1504	U1505	U1506	U1507	U1508	U1509	U1510	U1511	U1512	U1513	U1514	U1515	U1516	U1517	U1518	U1519	U1520	U1521	U1522	U1523	U1524	U1525	U1526	U1527	U1528	U1529	U1530	U1531	U1532	U1533	U1534	U1535	U1536	U1537	U1538	U1539	U1540	U1541	U1542	U1543	U1544	U1545	U1546	U1547	U1548	U1549	U1550	U1551	U1552	U1553	U1554	U1555	U1556	U1557	U1558	U1559	U1560	U1561	U1562	U1563	U1564	U1565	U1566	U1567	U1568	U1569	U1570	U1571	U1572	U1573	U1574	U1575	U1576	U1577	U1578	U1579	U1580	U1581	U1582	U1583	U1584	U1585	U1586	U1587	U1588	U1589	U1590	U1591	U1592	U1593	U1594	U1595	U1596	U1597	U1598	U1599	U1600	U1601	U1602	U1603	U1604	U1605	U1606	U1607	U1608	U1609	U1610	U1611	U1612	U1613	U1614	U1615	U1616	U1617	U1618	U1619	U1620	U1621	U1622	U1623	U1624	U1625	U1626	U1627	U1628	U1629	U1630	U1631	U1632	U1633	U1634	U1635	U1636	U1637	U1638	U1639	U1640	U1641	U1642	U1643	U1644	U1645	U1646	U1647	U1648	U1649	U1650	U1651	U1652	U1653	U1654	U1655	U1656	U1657	U1658	U1659	U1660	U1661	U1662	U1663	U1664	U1665	U1666	U1667	U1668	U1669	U1670	U1671	U1672	U1673	U1674	U1675	U1676	U1677	U1678	U1679	U1680	U1681	U1682	U1683	U1684	U1685	U1686	U1687	U1688	U1689	U1690	U1691	U1692	U1693	U1694	U1695	U1696	U1697	U1698	U1699	U1700	U1701	U1702	U1703	U1704	U1705	U1706	U1707	U1708	U1709	U1710	U1711	U1712	U1713	U1714	U1715	U1716	U1717	U1718	U1719	U1720	U1721	U1722	U1723	U1724	U1725	U1726	U1727	U1728	U1729	U1730	U1731	U1732	U1733	U1734	U1735	U1736	U1737	U1738	U1739	U1740	U1741	U1742	U1743	U1744	U1745	U1746	U1747	U1748	U1749	U1750	U1751	U1752	U1753	U1754	U1755	U1756	U1757	U1758	U1759	U1760	U1761	U1762	U1763	U1764	U1765	U1766	U1767	U1768	U1769	U1770	U1771	U1772	U1773	U1774	U1775	U1776	U1777	U1778	U1779	U1780	U1781	U1782	U1783	U1784	U1785	U1786	U1787	U1788	U1789	U1790	U1791	U1792	U1793	U1794	U1795	U1796	U1797	U1798	U1799	U1800	U1801	U1802	U1803	U1804	U1805	U1806	U1807	U1808	U1809	U1810	U1811	U1812	U1813	U1814	U1815	U1816	U1817	U1818	U1819	U1820	U1821	U1822	U1823	U1824	U1825	U1826	U1827	U1828	U1829	U1830	U1831	U1832	U1833	U1834	U1835	U1836	U1837	U1838	U1839	U1840	U1841	U1842	U1843	U1844	U1845	U1846	U1847	U1848	U1849	U1850	U1851	U1852	U1853	U1854	U1855	U1856	U1857	U1858	U1859	U1860	U1861	U1862	U1863	U1864	U1865	U1866	U1867	U1868	U1869	U1870	U1871	U1872	U1873	U1874	U1875	U1876	U1877	U1878	U1879	U1880	U1881	U1882	U1883	U1884	U1885	U1886	U1887	U1888	U1889	U1890	U1891	U1892	U1893	U1894	U1895</
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	---------



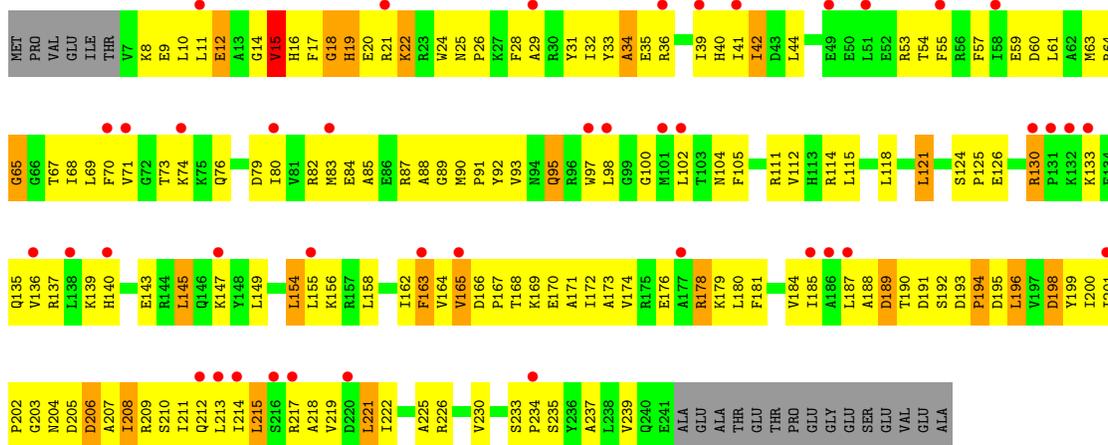
● Molecule 1: 16S rRNA



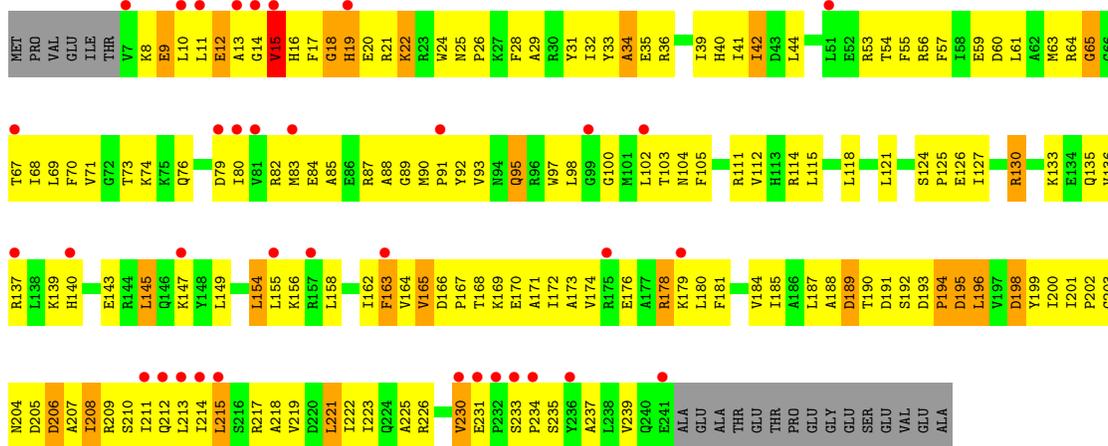




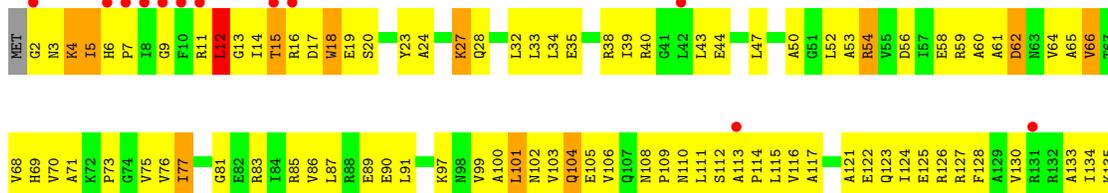
• Molecule 2: 30S ribosomal protein S2

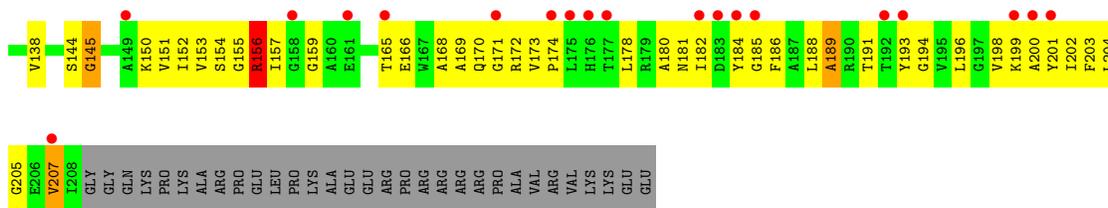


• Molecule 2: 30S ribosomal protein S2

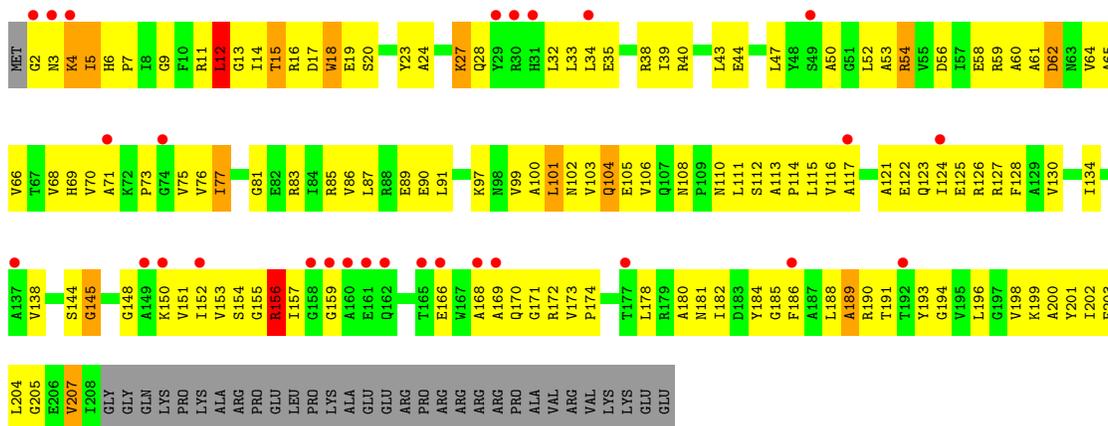


• Molecule 3: 30S ribosomal protein S3

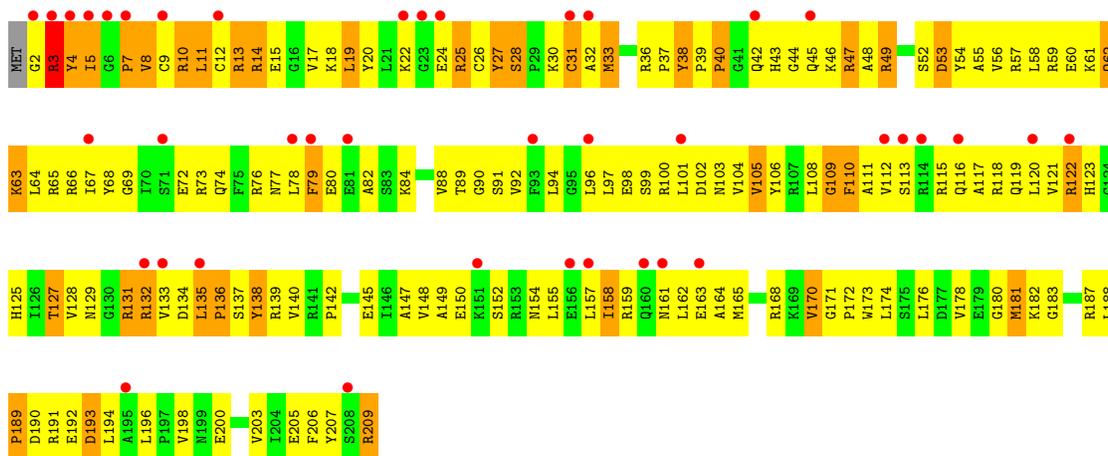




• Molecule 3: 30S ribosomal protein S3

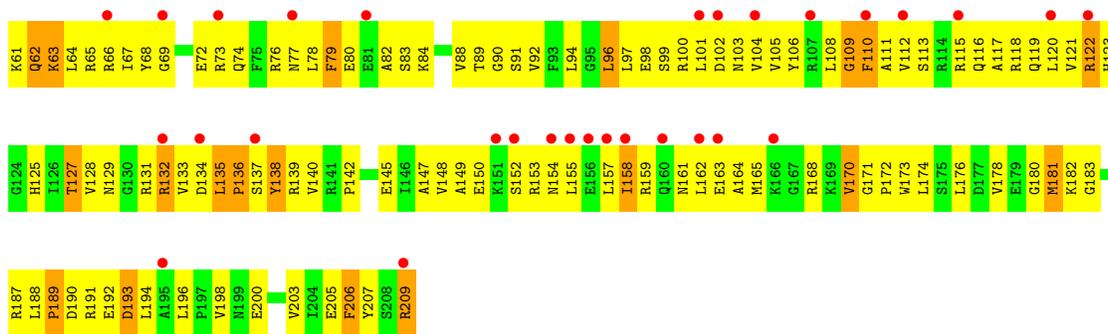


• Molecule 4: 30S ribosomal protein S4

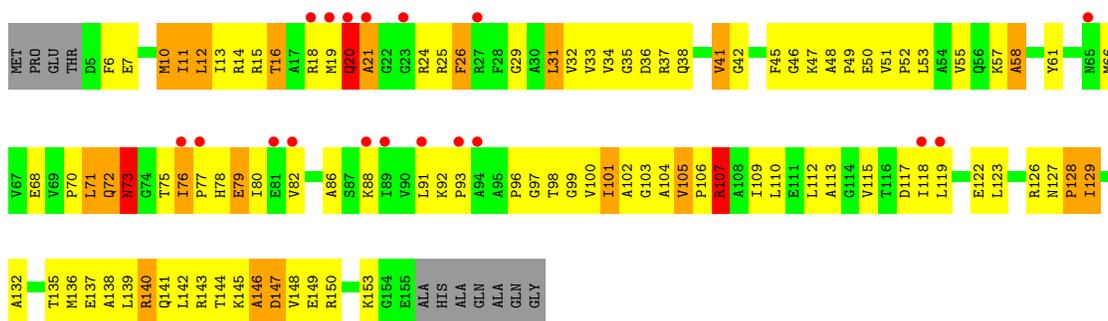


• Molecule 4: 30S ribosomal protein S4

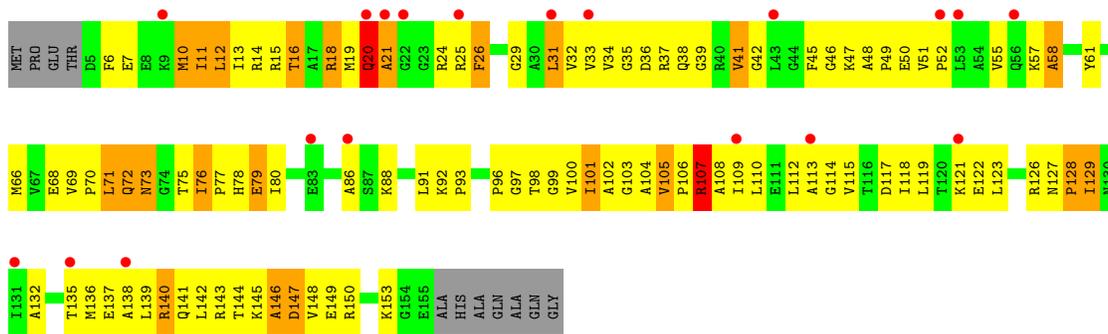




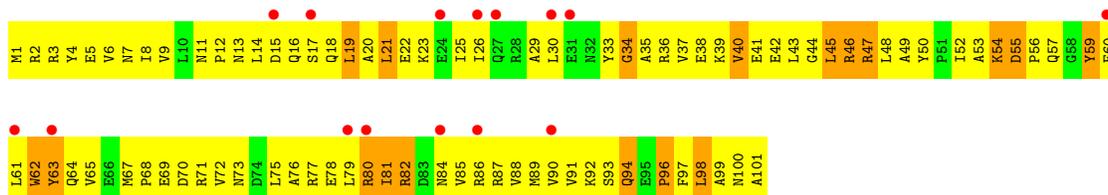
• Molecule 5: 30S ribosomal protein S5



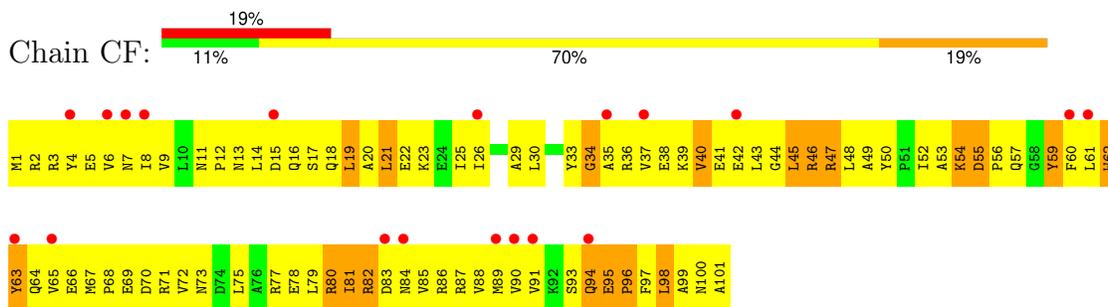
• Molecule 5: 30S ribosomal protein S5



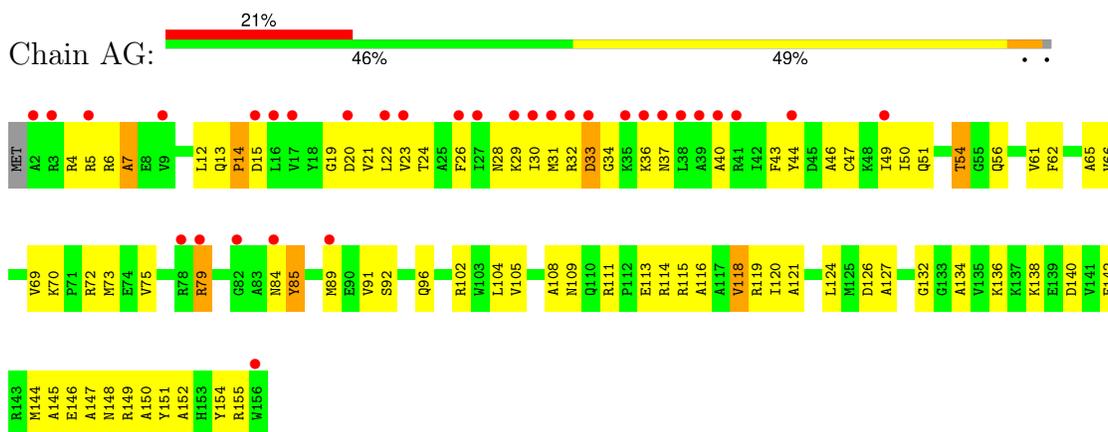
• Molecule 6: 30S ribosomal protein S6



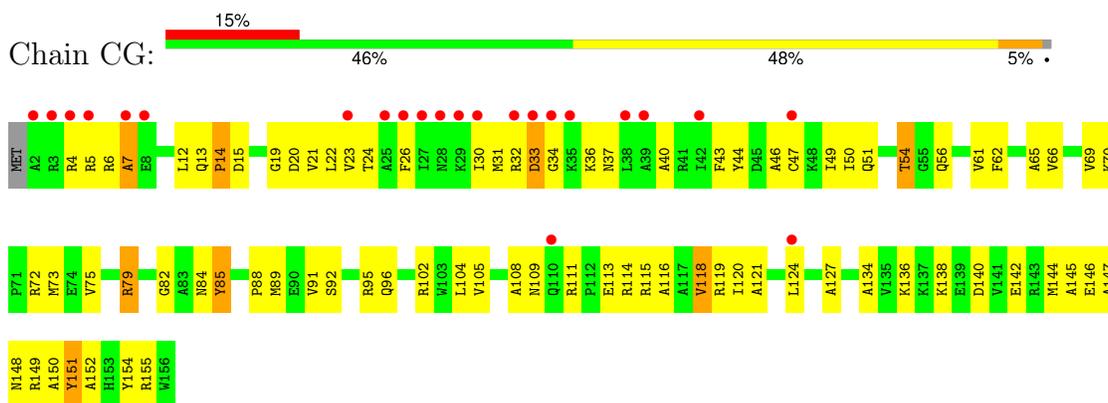
- Molecule 6: 30S ribosomal protein S6



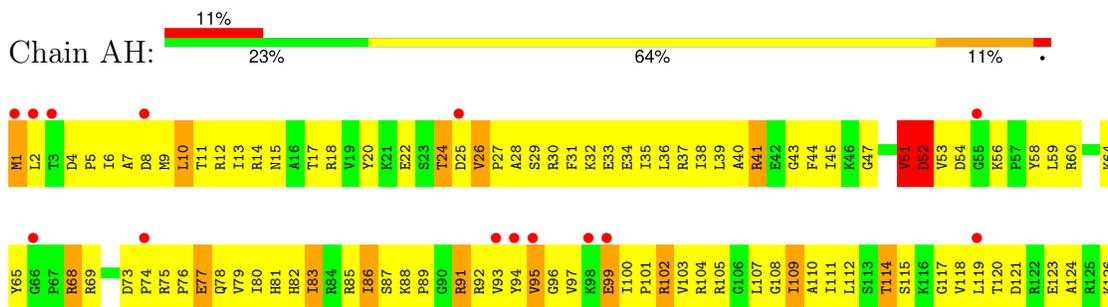
- Molecule 7: 30S ribosomal protein S7



- Molecule 7: 30S ribosomal protein S7

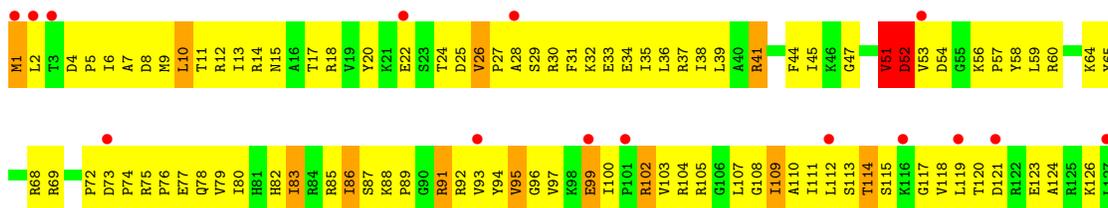


- Molecule 8: 30S ribosomal protein S8

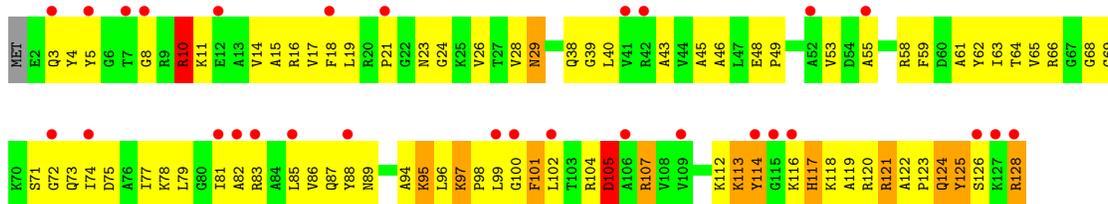




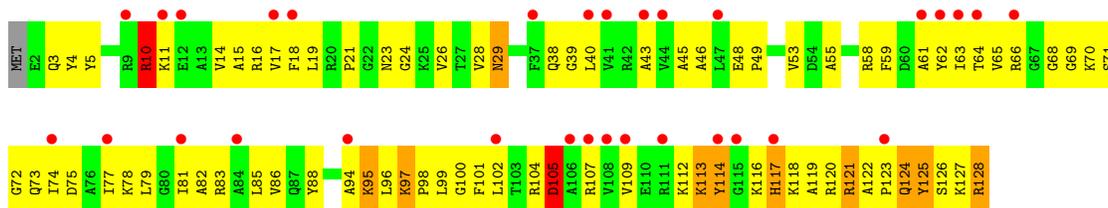
- Molecule 8: 30S ribosomal protein S8



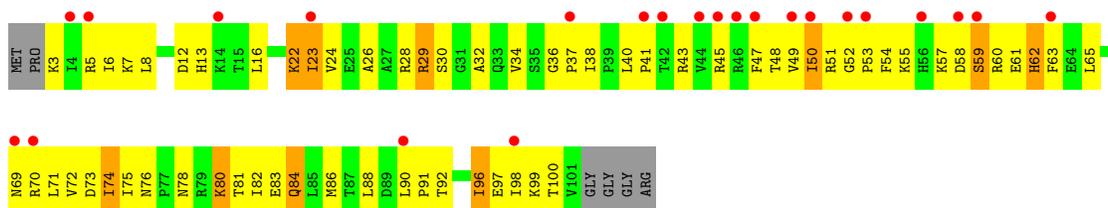
- Molecule 9: 30S ribosomal protein S9



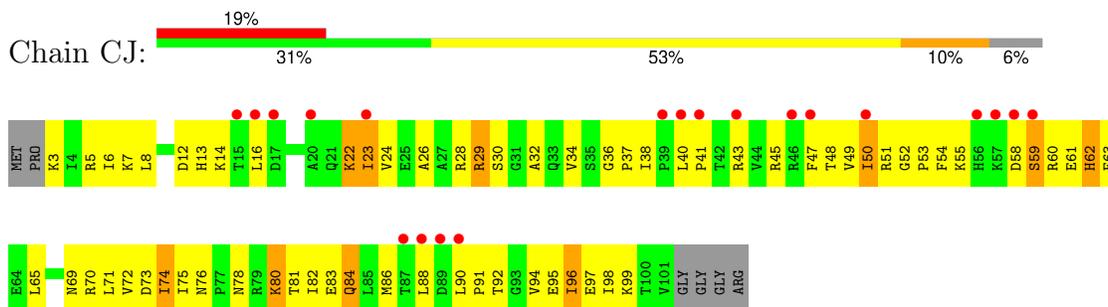
- Molecule 9: 30S ribosomal protein S9



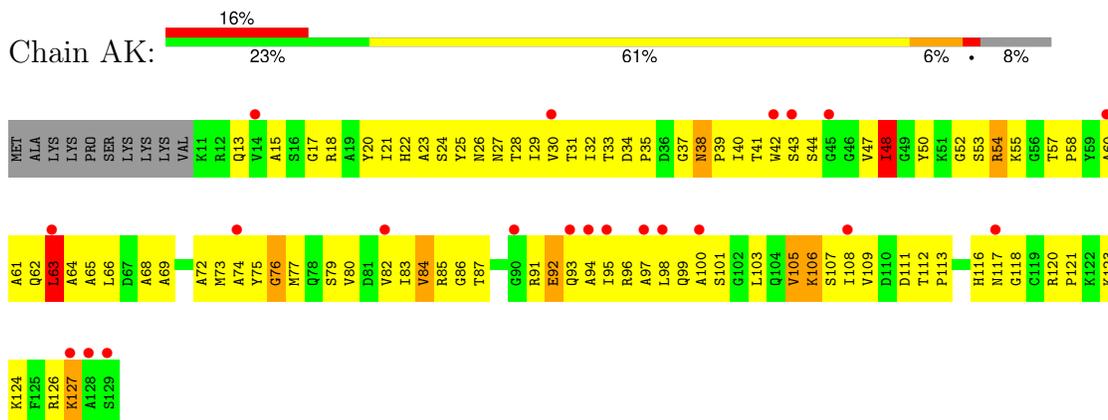
- Molecule 10: 30S ribosomal protein S10



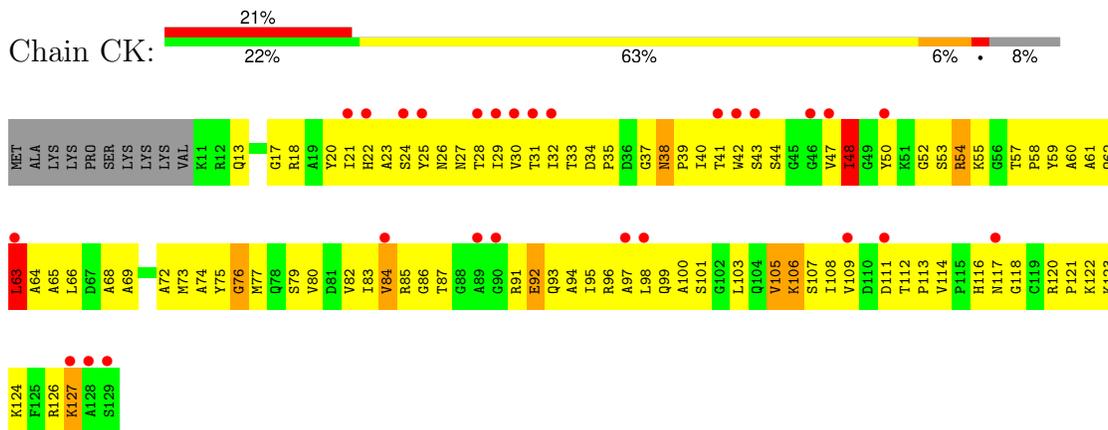
- Molecule 10: 30S ribosomal protein S10



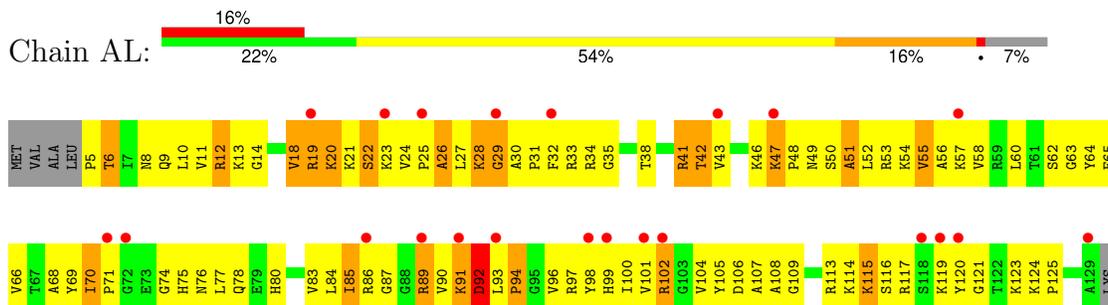
- Molecule 11: 30S ribosomal protein S11



- Molecule 11: 30S ribosomal protein S11



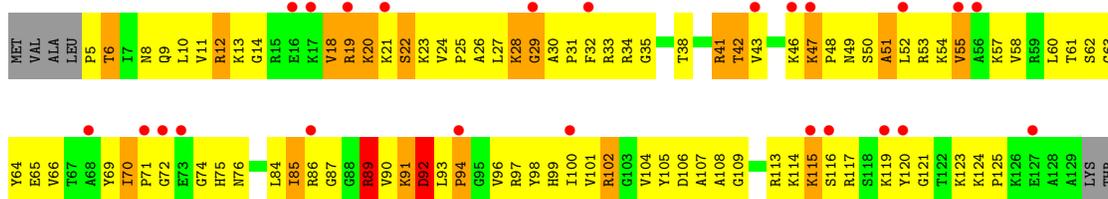
- Molecule 12: 30S ribosomal protein S12



THR  
ALA  
ALA  
LYS  
LYS

• Molecule 12: 30S ribosomal protein S12

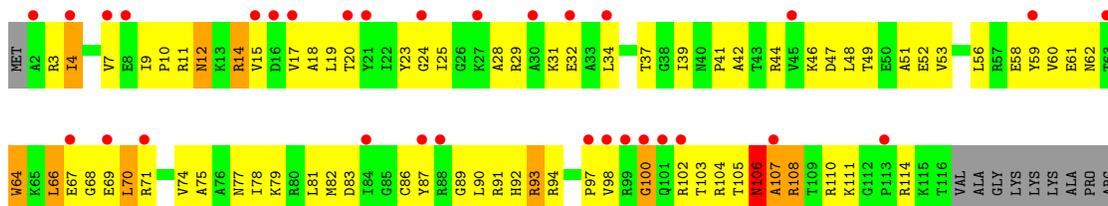
Chain CL: 18% 25% 52% 14% 7%



ALA  
ALA  
LYS  
LYS

• Molecule 13: 30S ribosomal protein S13

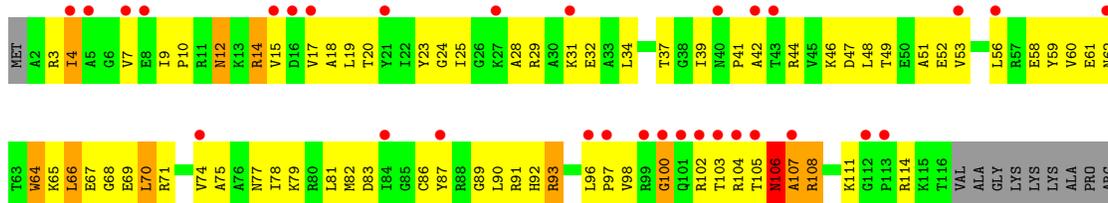
Chain AM: 25% 32% 51% 8% 9%



LYS

• Molecule 13: 30S ribosomal protein S13

Chain CM: 25% 33% 50% 8% 9%



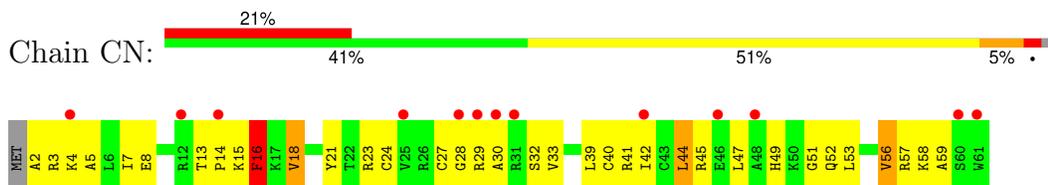
LYS

• Molecule 14: 30S ribosomal protein S14

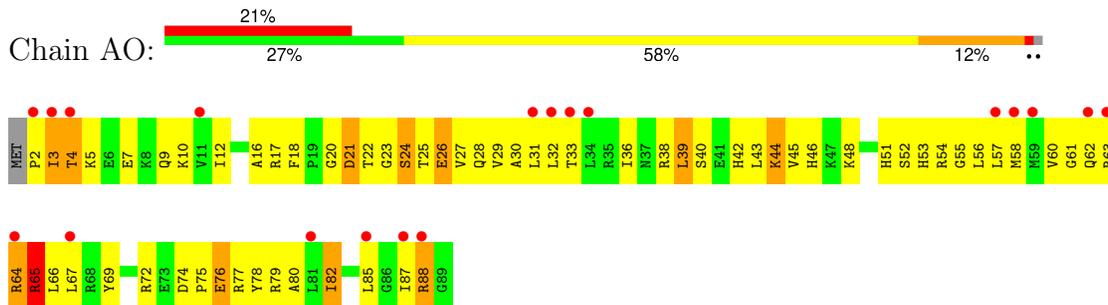
Chain AN: 16% 41% 51% 5% 5%



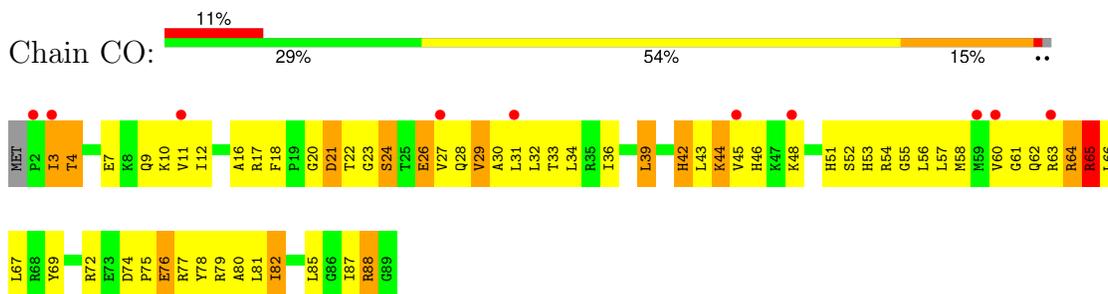
- Molecule 14: 30S ribosomal protein S14



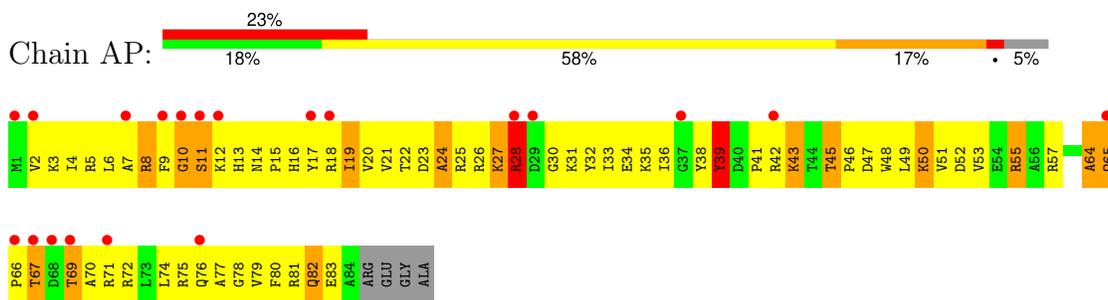
- Molecule 15: 30S ribosomal protein S15



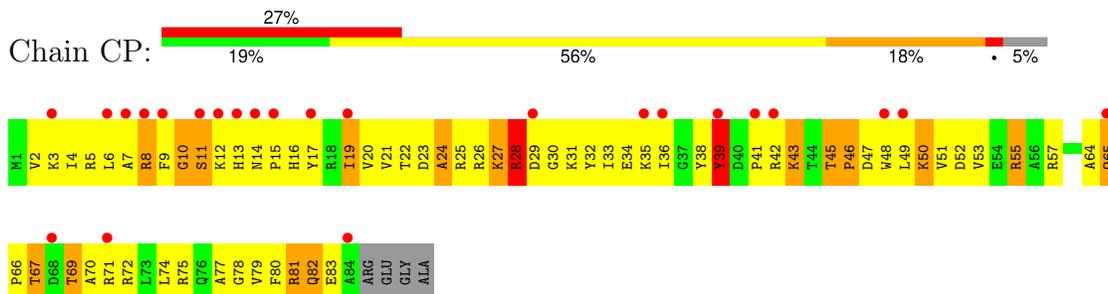
- Molecule 15: 30S ribosomal protein S15



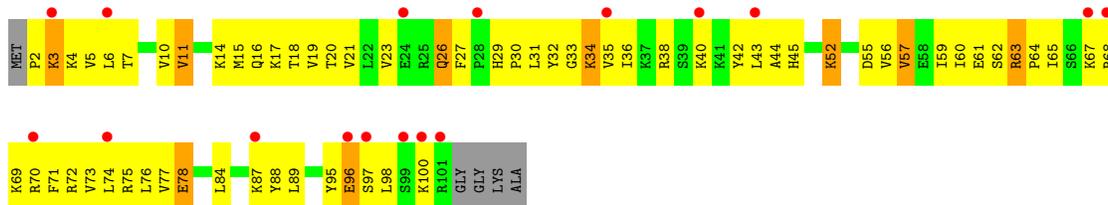
- Molecule 16: 30S ribosomal protein S16



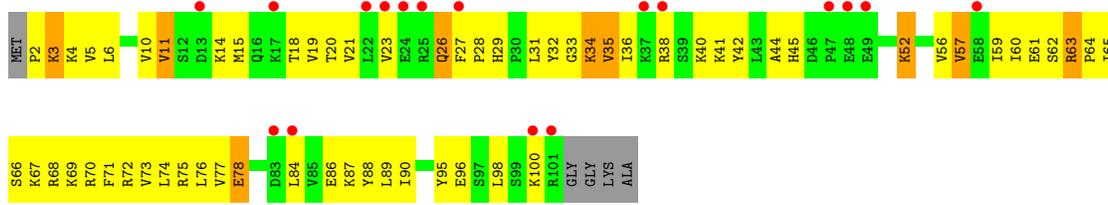
- Molecule 16: 30S ribosomal protein S16



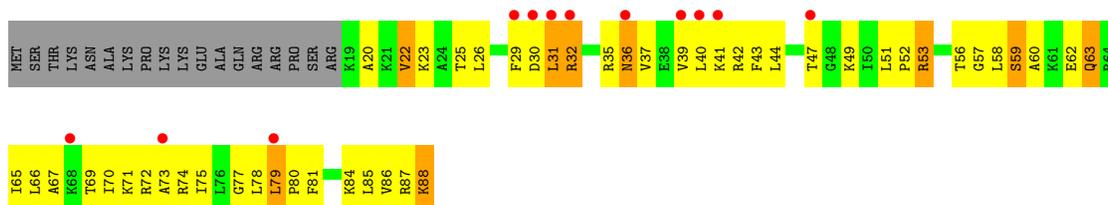
• Molecule 17: 30S ribosomal protein S17



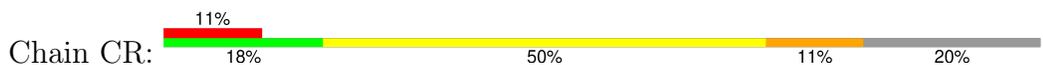
• Molecule 17: 30S ribosomal protein S17



• Molecule 18: 30S ribosomal protein S18

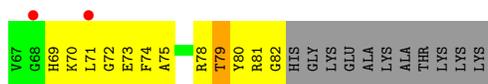


• Molecule 18: 30S ribosomal protein S18

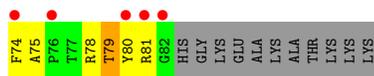


• Molecule 19: 30S ribosomal protein S19





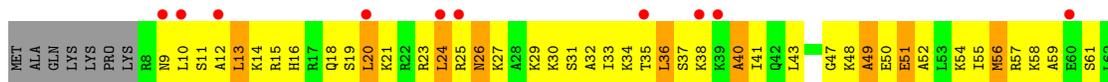
• Molecule 19: 30S ribosomal protein S19



• Molecule 20: 30S ribosomal protein S20



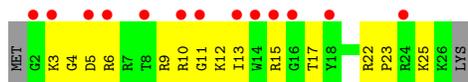
• Molecule 20: 30S ribosomal protein S20



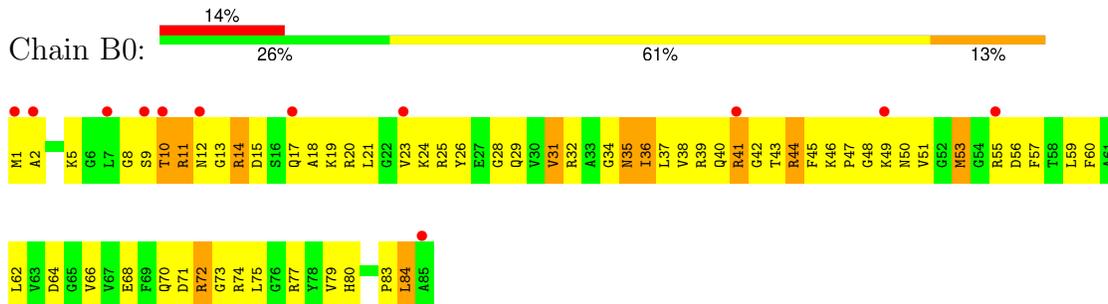
• Molecule 21: 30S ribosomal protein Thx



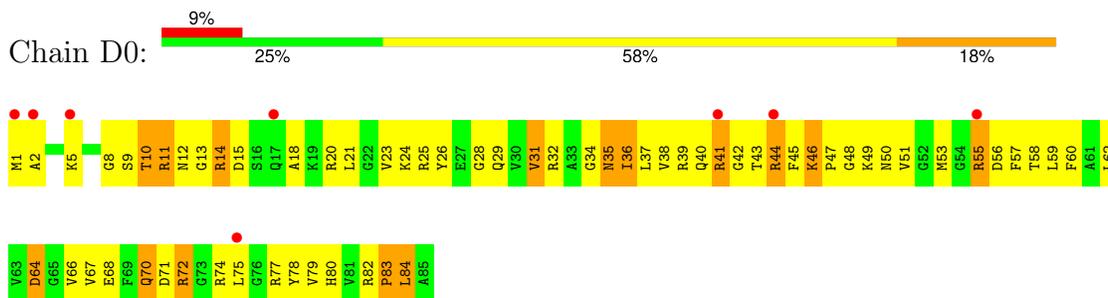
• Molecule 21: 30S ribosomal protein Thx



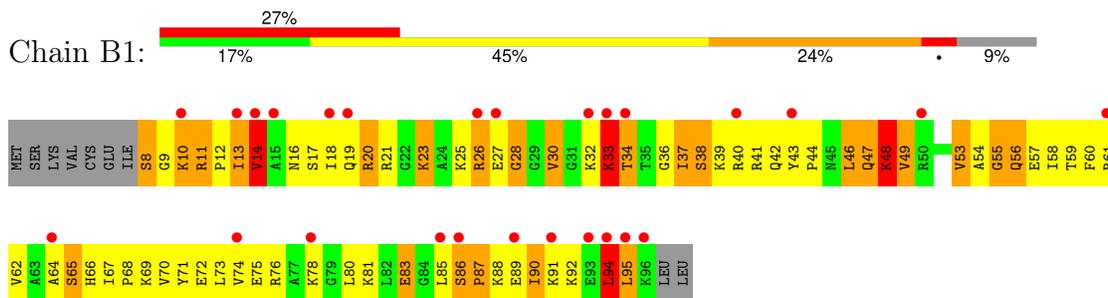
- Molecule 22: 50S ribosomal protein L27



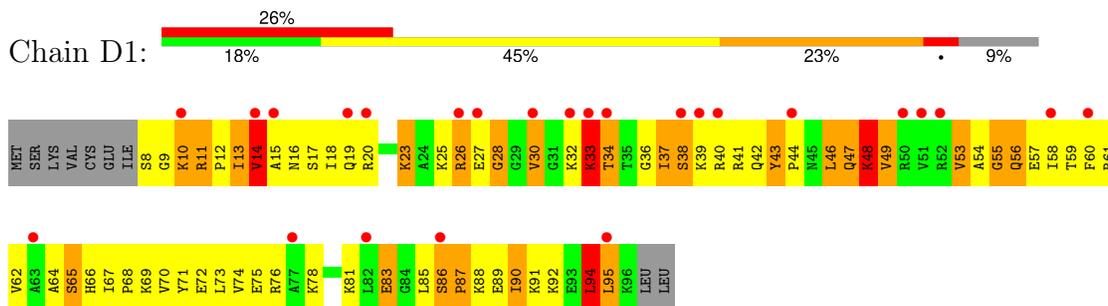
- Molecule 22: 50S ribosomal protein L27



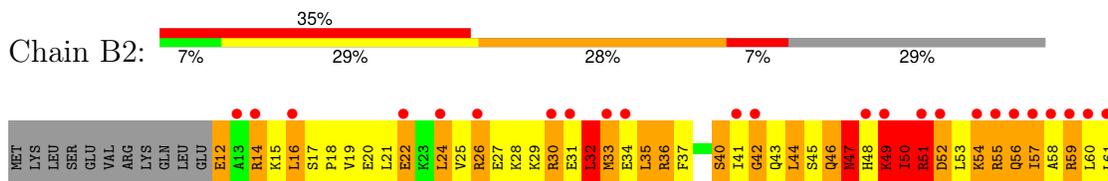
- Molecule 23: 50S ribosomal protein L28



- Molecule 23: 50S ribosomal protein L28

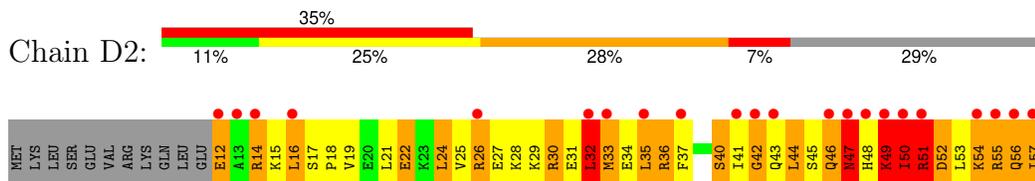


- Molecule 24: 50S ribosomal protein L29

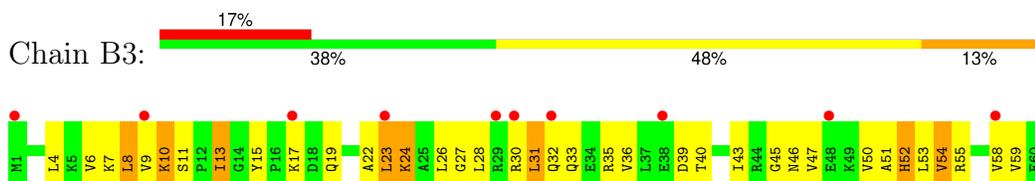




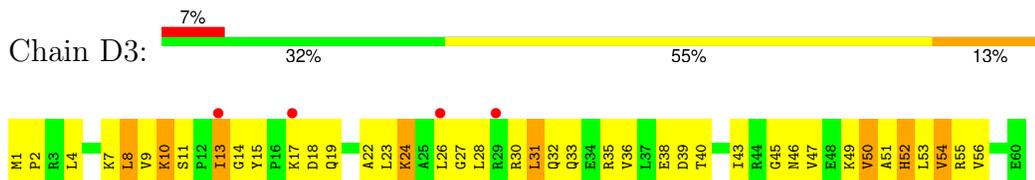
• Molecule 24: 50S ribosomal protein L29



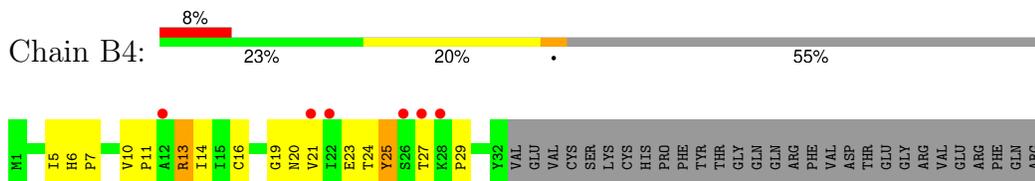
• Molecule 25: 50S ribosomal protein L30



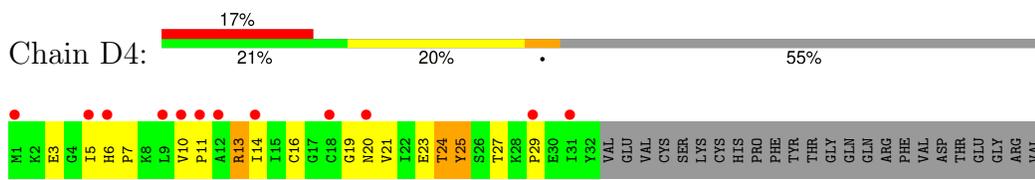
• Molecule 25: 50S ribosomal protein L30



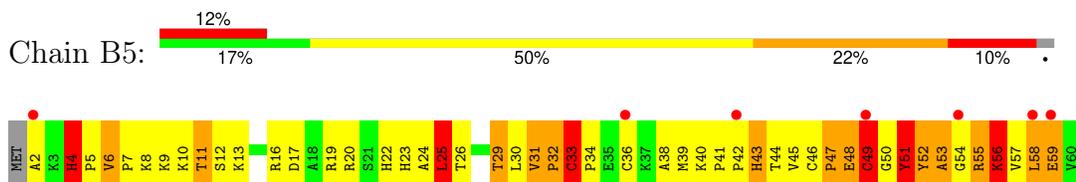
• Molecule 26: 50S ribosomal protein L31



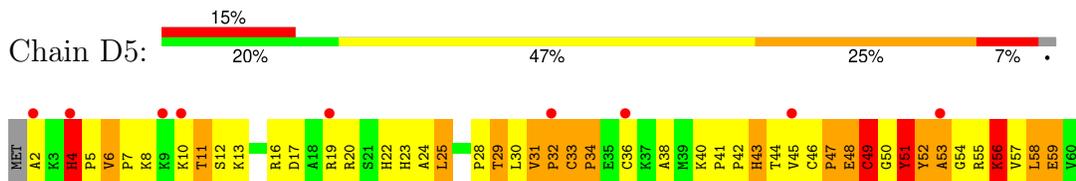
• Molecule 26: 50S ribosomal protein L31



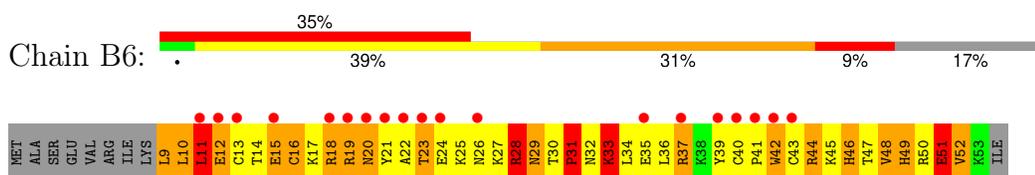
• Molecule 27: 50S ribosomal protein L32



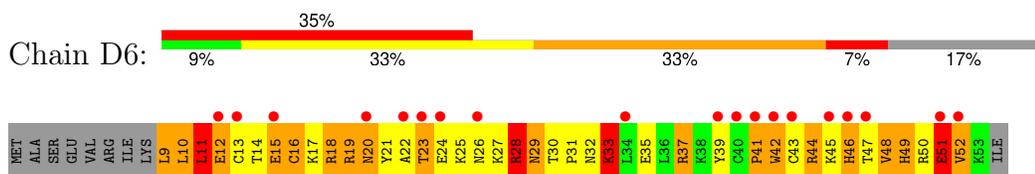
- Molecule 27: 50S ribosomal protein L32



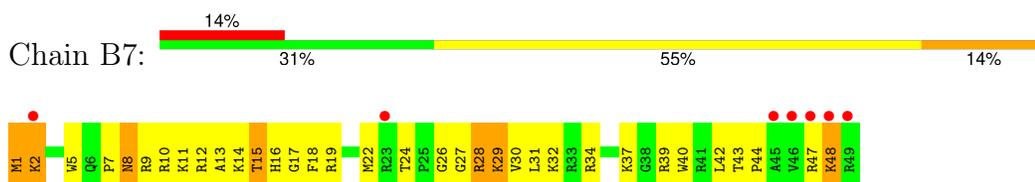
- Molecule 28: 50S ribosomal protein L33



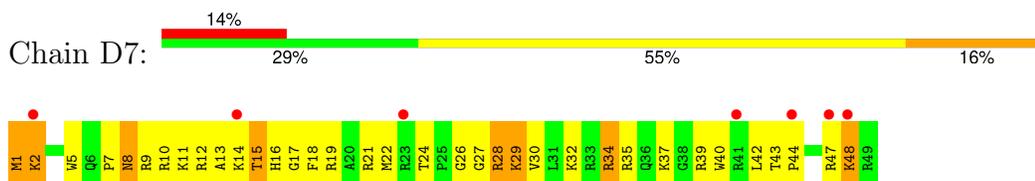
- Molecule 28: 50S ribosomal protein L33



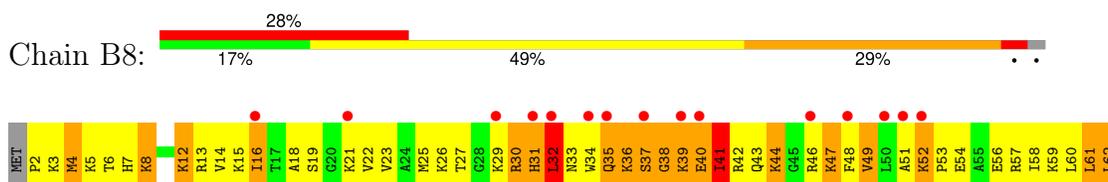
- Molecule 29: 50S ribosomal protein L34



- Molecule 29: 50S ribosomal protein L34

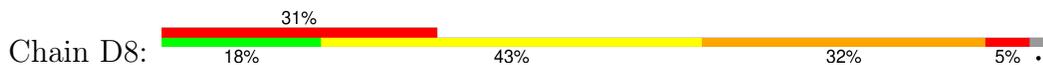


- Molecule 30: 50S ribosomal protein L35





● Molecule 30: 50S ribosomal protein L35

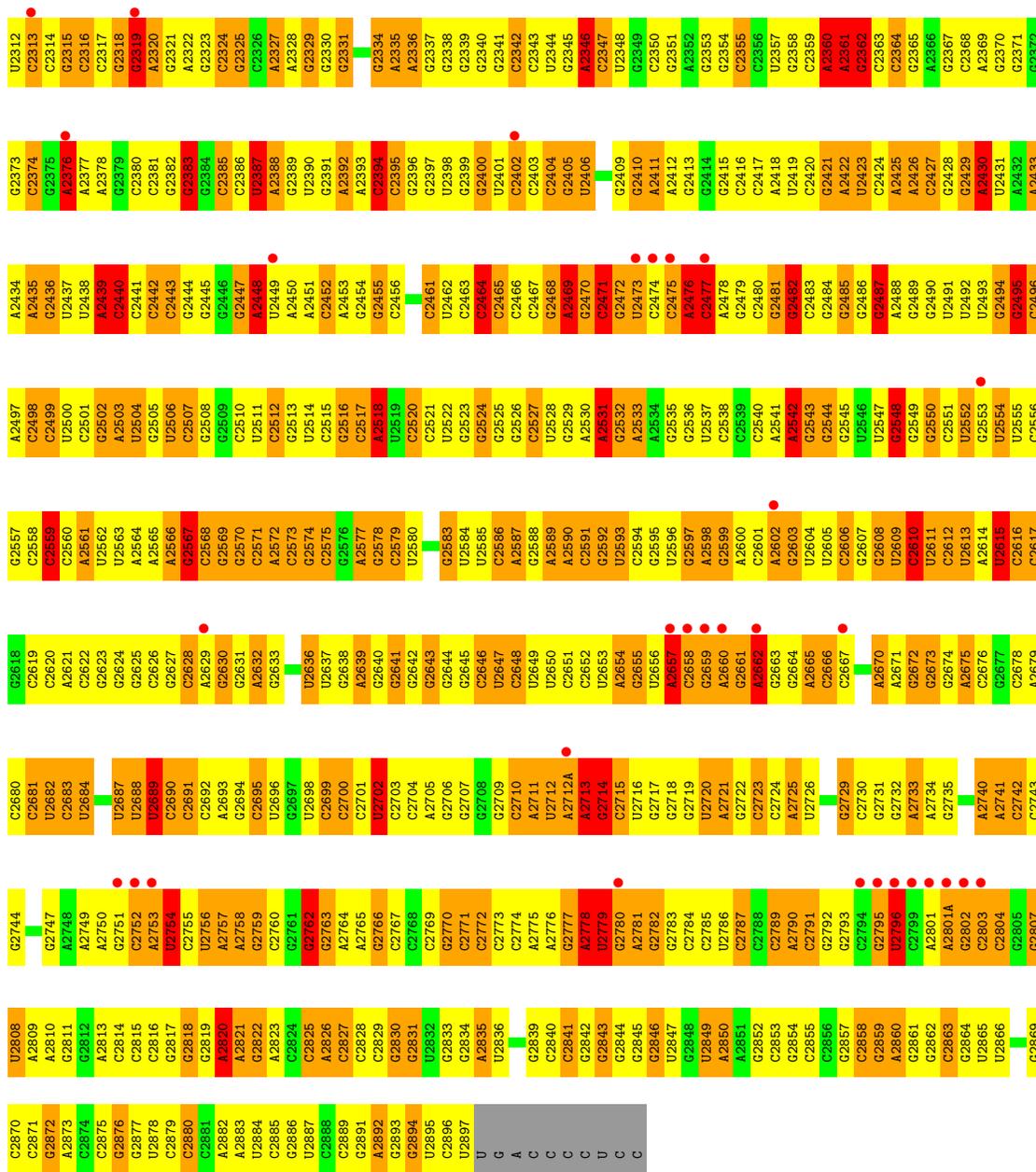


● Molecule 31: 23S ribosomal RNA



A1392	C1330	A1268	G1209	A1148	G1034	C975	C814	U847	U767	A727	C664	C601	C537
A1393	A1331	A1269	A1210	G1149	U1035	G975A	C915	G848	A786	G728	C665	G602	G538
A1394	G1332	G1270	U1211	G1150	G1036	C976	A916	A949	A787	G729	C666	A603	G539
A1395	G1333	G1271	G1212	G1151	G1037	C977	A917	C950	C790	C730	G667	G604	C540
U1396	U1334	A1272	A1213	C1152	G1038	G978	A918	U851	C791	C731	G668	C605	C541
U1397	U1335	A1273	C1153	C1153	G1039	G979	G919	G852	C792	C732	G669	U606	C542
C1398	A1336	A1274	G1215	G1154	C1040	A980	G820	G853	A793	G733	A670	U607	C543
C1399	G1337	A1275	G1216	A1155	C1041	A981	G821	G854	C794	A734	C671	A547	A548
G1400	G1338	A1276	C1217	A1156	G1042	C982	G922	G855	C795	A735	C672	G610	A549
G1401	G1339	G1277	G1218	G1157	C1043	A983	C923	C956	C796	C736	C673	C611	G551
C1402	U1340	A1278	G1219	C1158	G1044	A984	C924	C957	C797	C737	C674	C612	G552
C1403	U1341	G1279	U1220	U1159	A1045	C985	G925	U858	C798	G738	A675	G613	G553
C1404	A1342	G1280	C1221	G1160	A1046	C986	A926	G859	C799	G739	A676	U614	G554
U1405	G1343	G1281	C1221A	G1161	G1047	G987	G927	U860	A800	U740	A677	U614A	U594
U1406	G1344	U1282	G1222	G1162	A1048	A988	G928	A961	G801	G741	C678	U614B	U595
C1407	C1345	G1283	G1223	G1163	C1049	C989	U930	G862	A802	G742	C679	A614C	G556
C1408	G1346	G1284	G1224	G1164	A1050	A990	G931	A863	U803	G743	C680	G615	U557
G1409	G1347	A1286	G1225	U1165	G1051	C991	G932	G864	A804	G744	G681	G616	U558
G1410	G1348	A1287	A1226	C1166	C1052	C992	A933	C865	C805	G745	G682	G616	G559
C1411	A1349	U1288	G1227	U1167	C1053	G993	G934	A866	C806	A746	G683	G620	G560
C1412	C1350	C1289	G1228	G1168	A1106	C994	C935	C867	U807	U747	G684	A621	G561
G1413	C1351	C1290	G1229	G1169	G1107	C995	U936	U868	C808	G748	G685	G622	U562
G1414	U1352	C1291	C1230	G1170	U1108	A996	U937	C869	C809	C749	G686	G623	G563
U1415	A1353	U1292	G1231	G1171	C1109	C997	G938	U870	U810	A750	C687	C824	C564
G1416	A1354	C1293	G1232	G1173	G1110	C998	G939	U871	U811	A751	U688	G625	C565
C1417	G1355	U1294	C1233	A1174	A1111	U999	G940	A872	C812	A752	A689	U626	U566
G1418	G1356	C1295	U1234	U1175	U1112	A1000	A941	G873	U813	C753	G690	A627	A567
A1419	U1357	G1296	G1235	G1176	U1113	A1001	G942	C874	C814	G628	C691	G628	U568
U1420	A1358	C1297	G1236	A1177	G1114	G1002	U943	C875	C815	C755	C692	G629	U569
G1421	G1359	C1298	A1237	C1178	G1115	G1003	G944	C876	C816	C756	C693	G630	U570
G1422	A1360	G1299	G1238	C1179	C1116	C1004	A945	U877	C817	U757	U694	A631	A571
G1425	C1363	U1300	G1239	C1180	G1117	C1005	G946	A878	G818	C758	C695	A632	A572
G1426	G1364	A1301	U1240	C1181	C1006	C1006	G947	G879	A819	C759	C696	A633	G573
A1427	A1365	A1302	A1241	A1182	C1007	G948	G948	C880	A820	G760	C697	C834	C574
C1428	G1366	G1303	A1242	G1183	C1008	C1008	G949	C881	A821	A761	C698	C635	A575
G1429	A1367	C1304	G1243	G1184	A1009	G1009	G950	C882	U822	U762	A699	G636	U576
C1430	G1368	A1307	G1244	C1185	A1010	A1010	C951	G883	G823	G763	G700	A637	G577
U1431	U1369	U1308	G1245	G1186	G1011	G1011	G952	C884	A824	A764	G701	G638	A578
U1432	G1370	A1309	A1246	G1187	U1012	U1012	A953	C892	C825	G765	C699	U639	G579
U1433	U1372	G1310	A1247	U1188	C1013	C1013	C993	C893	U826	C766	C699	C840	C580
A1434	A1373	C1311	G1248	A1189	U1014	U1014	C955	C894	U827	U767	C698	C841	C581
G1435	G1374	U1312	U1249	G1190	A1129	A1129	G956	U895	U828	G768	C699	G642	G582
G1436	C1375	U1313	G1250	G1191	U1130	G1016	A957	C897	A829	C708	A643	A644	G583
C1437	G1376	C1314	G1251	G1192	G1131	G1017	U958	C898	C830	U709	A644	C645	C584
U1438	C1377	C1315	A1252	G1193	A1132	C1018	A959	C899	G831	G711	C645	C645	G585
A1439	A1378	U1316	A1253	G1194	U1133	U1019	A960	A900	U832	G712	A646	A646	A586
G1440	G1379	A1317	U1254	G1195	C1135	A1020	C961	A900	U833	U773	G647	G647	U588
G1441	G1380	C1318	U1255	C1196	G1136	A1021	G962	C902	C834	G775	G648	G649	C589
G1442	G1381	G1319	G1256	U1197	G1137	G1022	U963	C903	A835	G776	C650	C650	A590
G1443	G1382	C1320	C1257	U1198	U1138	U1023	C964	C904	C837	A777	C651	C651	G592
G1444	C1383	A1321	G1258	U1199	G1139	G1024	C965	C905	C838	A778	C652	C652	G593
A1445	A1384	A1322	G1259	C1200	C1140	U1025	G966	U905	C839	G779	C653	C653	U594
C1445A	G1385	C1323	U1260	C1201	U1141	U1026	C967	C906	U839	U779	G654	G654	G595
G1446	C1386	U1324	C1261	C1202	A1027	G968	U969	U907	C840	C720	C655	C655	U596
G1447	G1387	G1325	A1262	G1203	A1142A	U969	C908	C908	C841	A781	C656	C656	G597
G1448	C1387	U1326	U1263	A1204	A1143	A1029	C970	A909	G842	A722	C657	C657	U597
G1449	G1388	U1327	G1264	U1205	G1144	G1030	C971	A910	G843	G723	C658	G660	G598
G1450	A1389	C1327	A1265	G1206	C1145	G1031	G972	A911	C844	U724	C659	C661	G599
C1450A	U1391	U1329	U1267	C1207	C1146	A1032	A973	C912	G845	G725	C660	C662	G600
				C1208	C1147	U1033	G974	U913	C846	C786		G663	

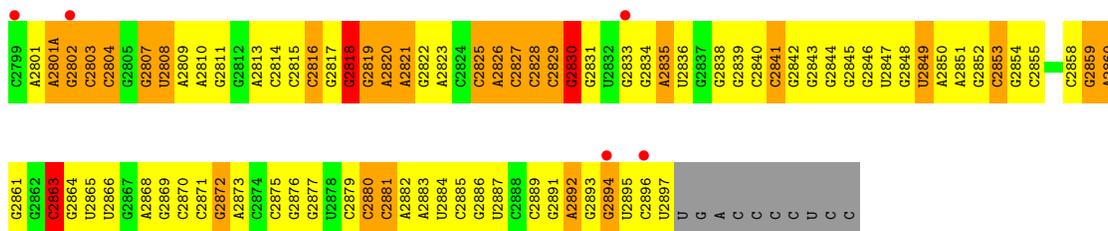
U2249	G2090	U2028	C1967	G1907	C1838	U1778	G1702	C1642	C1582	C1511	G1451
G2250	U2091	G2029	G1968	C1908	G1839	U1779	G1703	G1643	A1583	U1512	A1452
G2251	U2092	G2030	A1969	C1909	G1840	U1780	G1704	C1644	C1584	U1513	U1453
G2252	G2093	A2031	A1970	G1910	U1841	C1781	G1705	C1645	A1586	C1514	G1455
G2253	G2094	G2032	A1971	U1911	G1842	U1782	U1706	C1646	A1587	G1515	G1456
C2183	G2095	A2033	A1972	A1912	C1843	A1783	G1707	G1647	C1588	C1516	A1457
G2184	U2096	U2034	G1973	A1913	C1844	A1784	C1708	G1648	C1589	G1517	C1458
C2185	C2097	G2035	C1974	A1914	G1845	A1785	U1709	G1649	U1590	U1518	G1459
G2186	U2098	G2036	G1975	U1915	G1846	A1786	C1710	G1650	G1591	G1519	A1460
G2187	C2098	G2037	A1976	A1916	A1847	A1787	C1711	G1651	C1592	G1520	A1461
G2188	U2099	G2038	A1977	U1917	A1848	C1788	C1712	A1652	G1593	G1525	C1462
C2189	G2100	G2039	A1978	A1918	G1849	A1789	U1713	A1653	G1594	G1526	G1463
G2190	U2101	C2040	C1979	A1919	G1850	A1790	G1714	A1654	G1595	G1527	G1464
G2191	G2102	G2041	C1980	A1920	U1851	A1791	G1717	A1655	A1596	G1528	G1465
G2192	C2103	U2041	G1980	C1920	C1852	G1792	G1718	C1656	A1597	A1528	G1466
G2193	C2104	A2042	A1981	G1921	C1853	G1793	G1719	C1657	C1598	A1528A	G1467
G2194	C2105	C2043	C1982	G1922	A1854	U1794	U1720	C1658	C1599	G1529	C1468
C2195	G2106	G2044	G1983	U1923	A1855	C1795	G1721	U1659	C1600	G1530	A1469
C2196	C	G2045	G1984	C1924	G1856	U1796	U1722	C1660	G1601	C1531	G1470
C2197	U	U2047	G1985	U1925	G1857	C1797	U1739	G1661	U1602	C1532	A1471
A2198	G	G2048	C1987	U1926	G1858	U1798	G1740	C1662	A1603	G1533	A1472
A2199	G	G2049	C1988	A1927	G1859	U1799	U1741	C1663	C1604	C1543	G1473
C2200	C	G2050	G1989	G1928	A1860	G1806	G1742	A1664	C1605	A1544	C1474
C2201	G	A2051	C1990	G1929	G1861	G1807	G1743	A1665	C1606	A1545	G1475
C2202	C	G2052	U1991	U1930	G1862	A1808	G1748	G1666	C1607	C1546	G1476
A2274	A	G2053	G1992	U1931	G1863	A1809	C1745	G1667	A1608	C1547	A1477
C2205	G	A2054	U1993	A1932	U1864	A1804	C1745A	A1668	A1609	C1548	A1478
C2206	G	G2055	C1994	G1933	G1865	U1805	G1746	A1669	A1610	C1549	G1479
G2207	A	G2056	U1995	C1934	G1866	G1806	G1747	C1670	C1611	C1550	G1480
A2208	A	A2057	C1996	G1935	A1867	G1807	G1747A	C1671	C1612	C1551	U1481
G2218	A	A2058	G1997	A1936	A1868	G1808	G1748	C1672	G1613	C1552	G1482
G2219	G	A2059	G1998	A1937	A1869	U1809	U1749	U1673	A1614	A1553	G1483
G2220	G	A2060	C1999	A1938	G1878	A1810	A1749	U1674	C1615	A1554	G1484
G2221	U	G2061	G2000	U1939	C1879	G1810	G1750	C1675	A1616	C1555	A1486
G2222	G	A2062	A2001	U1940	C1880	G1811	C1751	C1676	C1617	C1556	G1487
G2223	G	C2063	G2002	C1941	C1881	A1812	C1752	A1676	C1618	C1557	U1488
G2224	G	C2064	G2003	C1942	C1882	G1813	G1753	A1677	A1618	C1557	U1489
A2225	A	C2065	G2004	U1943	C1883	G1814	C1754	G1678	G1619	A1558	U1489
C2226	G	C2066	A2005	U1944	A1884	A1815	A1755	U1679	G1620	G1559	A1490
A2227	C	G2067	C2006	G1945	A1885	G1816	G1756	U1680	U1621	G1560	G1491
G2228	C	U2068	C2007	U1946	C1886	G1817	U1757	G1681	G1622	G1561	G1492
C2229	U	G2069	C2008	C1947	C1887	U1818	G1758	G1682	G1623	A1562	C1493
G2230	G	A2070	G2009	G1948	G1888	U1819	A1759	C1683	G1624	G1563	A1494
C2231	C	A2071	G2010	G1949	A1889	U1820	A1760	C1684	C1625	C1564	A1495
U2232	G	G2072	U2011	G1950	A1890	A1821	G1761	C1685	G1626	C1565	A1496
U2233	G	C2073	G2012	U1951	G1891	G1822	A1762	C1686	G1627	A1566	U1497
G2234	C	A2013	A2013	A1952	C1892	G1823	G1763	G1687	G1628	A1567	C1498
G2235	C	A2014	A2014	A1953	C1893	G1824	G1764	U1688	U1629	G1568	C1499
C2236	G	A2015	A2015	G1954	C1894	A1825	C1765	A1689	G1630	A1569	G1500
G2237	G	U2016	U1955	U1955	C1895	G1826	U1766	A1690	C1631	A1570	C1501
G2238	U	U2017	U1956	U1956	G1896	C1827	C1767	C1691	A1631A	A1571	C1502
G2239	G	G2018	G2018	C1957	G1897	U1828	U1768	U1692	A1632	A1572	U1503
C2240	A	C2081	A2019	U1958	U1898	A1829	G1769	C1693	A1633	G1573	C1504
A2241	A	A2082	A2020	G1959	G1899	C1830	G1770	C1694	A1634	G1574	C1505
G2242	A	G2083	A1900	A1960	A1899	G1831	C1771	G1695	G1635	C1575	C1506
C2243	U	C2084	C2021	C1961	A1901	A1832	G1772	G1696	C1636	U1576	A1507
U2244	U	C2085	U2022	G1961	C1902	U1833	G1773	G1697	A1637	C1577	A1508
U2245	C	C2085	G2023	C1962	C1902	U1833	C1774	A1698	U1637	U1578	C1509
G2246	A	U2086	G2024	U1963	G1903	U1834	C1775	A1699	C1638	U1579	A1509
G2247	C	G2087	C2025	G1964	C1904	G1835	U1776	A1700	C1640	A1580	A1509B
G2248	C	U2089	G2026	G1965	C1905	G1836	U1777	A1701	A1641	G1581	G1510
C2248	C	G2027	G2027	A1966	G1906	C1837	U1777				



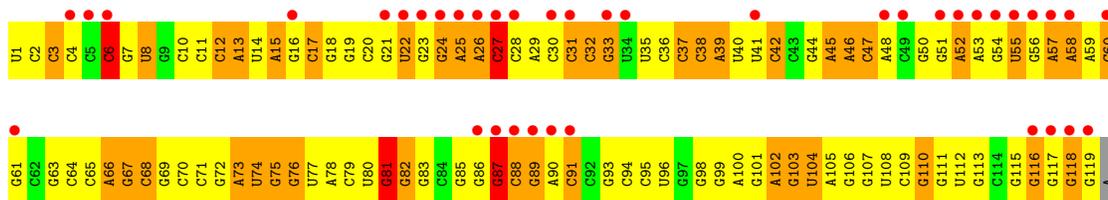
A197	C258	A289	G351	C409	A472	U534	G599	G660	U724	G784	C845	C912	A973
C198	G259	C292	G352	C410	G473	C535	G600	C601	G725	G785	C846	U913	G974
A199	G260	C294	G353	C411	G474	A536	C602	G601	G726	C786	U847	C914	C975
U200	G261	G295	G354	C412	U475	A537	C603	C601	A727	C787	C848	C915	G975A
C201	G262	G296	G355	C413	G476	G538	G604	A603	A728	C788	A849	C916	G976
U202	C263	G297	G356	C414	A477	G539	G605	G604	G729	A789	C850	A917	C977
C203	C264	C298	A357	C415	A478	C540	C606	C605	C730	C790	U851	A918	G978
A204	A265	A297	U358	C416	A479	C541	U606	U606	C731	C791	G852	G919	G979
G205	G266	G298	A359	C417	A480	C542	U607	U607	C732	G792	G853	G920	A980
U206	C267	A299	G360	C418	G481	C543	A608	A608	A733	A793	G854	G921	A981
A207	C268	A300	G361	C419	A482	A544	A609	A609	A734	G794	G855	U922	C982
C208	U269	G301	U362	C420	U483	A545	G610	G610	A735	C795	C856	C923	A983
C209	U270	C302	G363	U421	C484	A546	G611	G611	C736	C796	C857	C924	C984
C210	A271	U303	A363A	A422	C485	G551	C612	C612	C737	C797	U858	C925	C985
A211	A271A	G304	G363B	A423	C486	G552	G613	G613	G738	G798	A859	A926	C986
G212	C271A	U305	G363C	C426	G489	G553	U614	U614	G739	G799	U860	G927	G987
A213	C271C	U306	G363D	U427	G491	U554	U614A	U614A	U740	A801	A861	G928	A988
G214	G271D	G307	U363E	U428	A492	U555	G614B	G614B	G741	A802	C862	G929	C989
G215	U271E	G308	A363F	A429	G493	G556	A614C	A614C	G742	U803	A863	G931	A990
A216	C271F	G309	C364	A429	G494	U557	G615	G615	G743	A804	G864	G932	G991
G217	G271G	A310	C365	C430	G495	G558	U616	U616	G744	G805	C865	A933	C992
A218	C271H	A311	C366	C433	G496	C560	C618	C618	G745	C806	A866	G934	C993
G219	G271I	G312	C367	C434	A497	G561	U619	U619	G746	U807	C867	C935	C994
G220	C271J	G315	A371	C435	G498	G562	G620	G620	G747	G808	U868	C936	C995
A221	U271K	C316	A371	C436	G499	U563	G621	G621	C748	G809	G869	U937	A996
A222	U271L	G317	G372	C437	U499	G564	G622	G622	C749	U810	A870	G938	G997
A225	U271N	A318	U373	C438	G500	C564	G623	G623	A750	U811	U871	G939	C998
G226	G271O	C318	A374	C439	G501	A501	G624	G624	G751	C812	A872	G940	U999
A227	C271P	C319	C376	U441	A502	A502	G625	G625	A752	U813	G873	A941	A1000
A228	G271Q	A320	C377	U442	A503	A503	U626	U626	C753	C814	G874	G942	A1001
A229	G271R	G321	C378	C442	U504	U504	A627	A627	G754	C815	G875	U943	G1002
U230	G271S	A322	G379	A443	A505	G505	G628	G628	C755	C816	C876	G944	G1003
C231	G271T	G323	U380	C444	A506	U511	U629	U629	G756	C817	U877	A945	G1004
G232	C271U	A324	G381	C445	A507	A572	G630	G630	U757	G818	A878	G946	C1005
A233	G271V	G325	G382	C446	G508	G573	U631	U631	C758	A819	C879	G947	C1006
C234	G271W	G326	G383	A447	C509	A574	A632	A632	G759	A820	G880	G948	C1007
U235	C271X	U328	U384	A448	C510	U575	A633	A633	A760	A821	C881	C949	C1008
C236	U271Y	A329	C385	A449	U511	U576	C634	C634	A761	U822	C882	G950	A1009
C237	G271Z	G330	G386	A450	G512	G577	C635	C635	U762	G823	C883	C951	A1010
C238	G272A	A331	U387	C451	A513	A578	G636	G636	G763	A824	C884	G952	G1011
G240	C272B	A332	G388	C452	A514	G579	A637	A637	A764	C825	C885	A953	G1012
A241	G272C	G333	G389	C453	A515	C580	G638	G638	G765	U826	C886	C954	C1013
G242	G272D	C334	A390	A454	C516	C581	U639	U639	C766	U703	C887	C955	U1014
U243	G272E	C335	G391	C455	G517	G582	C640	C640	U767	G704	U828	G956	G1015
A244	C272F	C336	C392	C456	G518	G583	C641	C641	G768	A705	A829	A957	G1016
G245	C272G	G337	C393	A457	U519	C584	G642	G642	G769	A706	G830	U958	G1017
C246	C272H	G338	A394	C458	G521	G585	A643	A643	C770	A707	G831	A959	C1018
G247	U272I	U339	U395	U459	G522	A886	G644	G644	G771	C708	G832	A960	U1019
G248	G274	A340	G396	C461	G523	U588	C645	C645	C772	U709	U833	C961	A1020
C249	G275	G342	G397	C462	C523	C589	A646	A646	U773	G710	C834	G962	G1022
G250	C279	C343	U399	C463	U524	C590	G648	G648	A774	G711	A835	U963	U1023
A251	C280	C344	G400	C464	A525	A590	U649	U649	G775	G712	G836	C964	U1024
G252	G281	G345	A401	U465	A526	C591	C650	C650	A776	G713	C837	G965	G1025
C253	A346	A345	A402	A466	A527	G592	G651	G651	C777	A718	C838	C966	G1026
G254	A347	A346	A402	A467	A529	G593	G652	G652	C778	C719	U839	C967	U1027
A255	G348	A345	U405	G468	G530	C595	C653	C653	G780	C720	A841	U968	A1028
A256	C287	G348	G406	C469	G531	C596	U657	U657	A781	A842	G842	A909	A1029
G257	C288	U350	G407	A470	A532	U597	G658	G658	A782	A843	G843	C971	G1030
A257	C288	G408	G408	A471	G533	G598	C659	C659	A783	G723	C844	G972	G1031

U1834	C1843	A1898	U1576	A1508	G1447	G1388	U1267	C1207	C1145	A1032
G1835	C1844	G1699	C1577	C1509	G1448	G1389	A1268	G1207	C1146	U1033
C1837	G1845	A1700	U1578	A1509A	A1449	U1390	A1269	A1210	A1147	G1034
C1838	G1846	A1701	A1579	A1509B	A1450	U1391	A1270	A1211	A1148	U1035
C1839	G1847	A1702	A1580	G1510	C450A	A1392	G1271	G1212	G1149	G1036
	G1848	G1703	G1581	C1511	C451	A1393	A1272	A1213	C1150	G1037
	G1849	G1704	A1582	U1512	A1452	U1394	U1273	A1214	G1151	C1038
	C1843	G1705	A1583	C1513	U1453	U1395	U1274	G1215	C1152	G1039
	C1844	U1706	C1584	U1514	G1455	U1396	A1275	G1216	C1153	C1040
	G1845	G1707	A1586	G1515	A1457	A1397	A1276	G1217	G1154	C1041
	G1846	C1708	A1587	C1516	G1458	U1398	G1277	G1218	A1155	G1042
	A1847	G1709	A1588	G1517	A1459	C1399	A1278	G1219	A1156	G1043
	A1848	C1710	G1589	U1518	G1459	G1400	A1279	A1220	G1157	G1044
	G1849	C1711	U1590	C1519	A1460	G1401	G1280	C1221	C1158	A1045
	C1843	C1712	A1591	G1520	C1461	C1402	U1281	C1221A	A1159	A1046
	C1844	U1713	C1592	U1523	A1462	C1403	U1282	C1222	G1160	G1047
	G1845	G1714	A1593	G1524	C1463	A1404	G1283	G1223	C1161	A1048
	A1853	G1715	G1594	G1525	C1464	U1405	A1284	G1224	G1162	C1049
	A1854	G1716	A1595	G1526	G1465	U1406	G1285	G1225	G1163	A1050
	G1855	G1717	C1596	G1527	G1466	C1345	A1286	A1226	G1164	G1052
	G1856	G1718	A1597	G1528	C1467	G1346	A1287	G1227	U1165	G1053
	G1857	U1719	C1598	A1528	A1468	C1408	U1288	G1228	G1166	C1053
	G1858	C1720	C1598	A1528A	A1468	A1409	A1289	G1229	A1167	A1106
	A1858	A1721	U1599	G1529	A1469	G1410	C1289	G1230	G1168	G1107
	A1859	G1722	C1600	C1530	C1411	C1411	C1290	G1231	U1108	U1108
	U1798	G1740	G1601	C1531	A1471	A1412	C1291	G1231	G1169	C1109
	G1799	A1741	U1602	C1532	A1472	G1413	U1292	G1232	G1170	G1110
	C1800	C1742	A1603	G1533	G1473	G1414	C1293	G1233	G1171	A1111
	G1801	A1664	A1604	C1534	C1474	U1415	U1294	G1234	A1112	A1112
	A1802	C1743	C1604	U1534	G1475	A1354	C1295	G1235	A1174	U1113
	A1803	C1744	G1605	A1545	C1476	G1416	G1296	G1236	G1175	U1113
	A1804	C1745	A1606	G1546	A1477	C1355	U1297	G1237	G1176	G1114
	A1805	C1745A	C1607	U1546	A1477	U1357	C1298	A1238	A1177	G1115
	U1805	G1746	A1608	C1547	G1478	A1418	G1299	G1239	C1178	C1116
	A1806	G1747	U1609	C1548	G1479	U1420	U1300	G1240	G1179	G1117
	C1806	U1747	A1610	C1549	A1480	G1421	A1301	A1241	C1180	G1118
	G1807	C1747A	C1611	C1550	U1481	G1422	A1302	G1242	C1181	
	U1808	G1748	G1612	C1551	G1482	G1423	G1303	G1243	A1182	
	A1809	U1673	A1613	G1552	G1484	G1424	C1304	G1244		
	A1810	G1750	G1614	A1553	G1485	G1425	C1305	G1245		
	C1881	C1751	A1614	U1554	A1486	A1426	C1306	G1246		
	A1812	C1752	C1615	G1555	G1487	G1427	C1307	A1247		
	G1883	U1753	A1616	C1556	A1488	C1428	A1308	G1248		
	A1884	G1753	C1617	U1557	U1489	G1429	A1309	U1249		
	A1885	C1754	A1618	C1558	A1490	C1430	G1309	G1250		
	A1886	A1755	G1619	G1559	G1491	U1431	U1310	C1251		
	A1887	G1756	U1620	G1560	G1492	C1432	G1311	G1252		
	G1888	U1757	G1622	U1561	C1493	U1433	U1312	G1253		
	A1889	G1758	G1623	A1562	A1494	A1434	U1313	A1254		
	A1890	A1759	C1624	G1563	A1495	G1435	C1314	U1255		
	G1891	U1760	C1625	A1564	A1496	G1436	C1315	G1256		
	C1892	C1761	G1626	C1564	U1497	C1437	U1316	C1257		
	C1893	A1762	A1627	U1565	C1498	U1438	A1317	G1258		
	C1894	G1763	G1628	C1566	C1499	U1439	C1318	C1259		
	C1895	C1764	A1629	A1568	U1499	A1440	G1319	U1199		
	A1825	C1765	G1630	A1567	G1500	G1440	C1320	G1138		
	G1896	U1766	A1631	G1568	C1501	G1441	G1321	U1199		
	G1897	C1767	A1631A	A1569	A1502	G1442	A1322	C1201		
	U1898	U1768	A1632	A1570	U1503	G1443	A1322	G1202		
	G1899	G1769	G1633	A1571	U1503	G1443	U1323	G1203		
	A1829	U1769	A1634	A1572	C1504	G1444	U1324	A1204		
	A1900	C1770	A1635	G1573	U1505	G1445	G1325	A1142A		
	A1901	G1770	G1636	U1574	C1506	G1445A	A1325	A1143		
	C1830	C1771	A1637	G1575	A1507	C1446	U1326	A1144		
	G1831	A1772								
	C1832	A1773								
	U1833									

G2736	C2616	U2555	U2431	G2370	A2309	A247	C	G2088	U2028	A1966	C1905
G2737	C2617	C2556	U2432	G2371	A2310	C248	C	U2089	G2029	C1967	G1906
G2678	G2577	G2495	A2432	G2372	A2311	U249	C	G2090	A2030	C1968	G1907
A2679	A2678	C2496	A2433	G2373	U2312	G250	C	U2091	A2031	A1969	C1908
C2680	C2618	A2497	A2434	C2374	G2313	U249	U	U2092	G2032	A1970	G1909
C2681	C2619	C2498	A2435	G2375	C2314	G2436	G	G2093	A2033	A1971	G1910
A2682	A2620	C2499	G2436	G2376	C2315	G2437	C	G2094	U2034	A1972	U1911
U2682	U2621	U2500	U2437	A2376	G2316	U2437	C	G2095	U2035	C1973	A1912
C2683	C2622	C2501	U2438	A2377	C2317	U2438	C	U2096	C2036	C1974	A1913
G2684	G2623	G2502	A2439	A2378	C2318	G2439	C	G2097	G2037	C1975	C1914
G2685	G2624	A2503	C2440	G2379	G2318	G2440	C	G2098	G2038	U1976	U1915
G2686	G2625	U2504	C2441	C2380	G2319	G2441	C	U2099	C2039	A1977	U1916
A2687	A2626	C2505	C2442	G2381	A2320	G2442	C	U2100	C2040	U1917	U1917
U2687	U2627	U2506	G2443	G2382	G2321	C2443	C	G2101	U2041	U1918	A1918
G2688	G2628	C2507	G2444	G2383	A2322	U2444	C	G2102	U2042	A1919	A1919
G2689	G2629	G2508	G2445	G2384	C2323	U2445	C	U2103	A2043	A1920	C1920
C2690	C2630	U2511	G2446	C2385	C2324	C2446	C	C2104	C2044	C1982	C1921
C2691	C2631	C2512	G2447	U2386	U2325	G2447	C	G2105	G2045	C1983	G1922
A2692	A2632	G2513	A2448	U2387	C2326	A2448	C	G2106	G2046	U1984	U1923
U2692	U2633	U2514	U2449	A2388	A2327	A2449	C	C	U2047	G1987	C1924
C2693	C2634	U2515	A2450	A2389	A2328	A2450	C	C	G2048	U1988	C1925
G2694	G2635	C2516	A2451	U2390	G2329	A2451	C	C	U2049	G1989	U1926
G2695	G2636	G2517	C2452	G2391	G2330	C2452	C	C	G2050	A1927	A1927
G2696	G2637	A2518	A2453	A2392	G2331	A2453	C	C	A2051	U1991	A1928
G2697	G2638	U2519	G2454	A2393	U2332	U2454	C	C	G2052	G1992	G1929
C2698	C2639	C2520	G2455	C2394	A2333	G2455	C	C	G2053	U1993	G1930
U2698	U2640	C2521	C2456	C2395	G2334	A2456	C	C	A2054	C1994	U1991
G2700	G2641	G2522	U2457	G2396	A2335	U2457	C	C	A2055	U1995	A1932
C2701	C2642	U2523	C2458	U2397	C2336	G2458	C	C	G2056	C1996	G1933
U2702	U2643	G2524	U2459	U2398	G2337	U2459	C	C	A2057	U1997	C1934
G2703	G2644	C2525	C2460	G2399	C2338	C2460	C	C	A2058	G1998	G1935
G2704	G2645	U2526	G2461	U2400	G2339	C2461	C	C	A2059	C1999	A1936
G2705	G2646	C2527	C2462	U2401	C2340	G2462	C	C	A2060	G2000	A1937
G2706	G2647	G2528	U2463	A2402	G2341	C2463	C	C	A2061	A2001	U1938
G2707	U2648	U2529	G2464	C2403	C2342	C2464	C	C	A2062	U1939	A1938
G2708	U2649	G2530	U2465	U2404	U2343	U2465	C	C	C2063	G2003	U1940
G2709	G2650	A2531	C2466	G2405	U2344	C2466	C	C	C2064	G2004	G1941
G2710	C2651	G2532	C2467	U2406	G2345	C2467	C	C	C2065	A2005	C1942
G2711	C2652	A2533	C2468	U2407	A2346	A2468	C	C	C2066	C2006	U1943
G2712	G2653	U2534	U2469	G2409	C2347	A2469	C	C	C2067	C2007	U1944
G2713	U2654	G2535	U2470	G2410	U2348	A2470	C	C	U2068	G2008	G1945
G2714	C2655	U2536	C2471	A2411	G2349	C2471	C	C	G2069	C2009	U1946
G2715	G2656	G2537	C2472	A2412	C2350	C2472	C	C	G2070	U2010	C1947
G2716	U2657	U2538	U2473	G2413	G2351	U2473	C	C	A2071	U2011	G1948
G2717	C2658	C2539	U2474	U2414	C2352	C2474	C	C	G2072	G2012	G1949
G2718	U2659	U2540	A2475	G2415	G2353	A2475	C	C	A2013	A2013	G1950
G2719	A2660	C2541	C2476	C2416	C2354	C2476	C	C	U2073	A2014	U1951
G2720	C2661	A2542	U2477	U2417	C2355	U2477	C	C	U2074	A2015	U1952
G2721	G2662	G2543	C2478	A2418	U2357	U2478	C	C	U2075	U2016	A1953
G2722	A2663	U2544	G2481	U2419	G2358	U2479	C	C	U2076	U2017	G1954
G2723	C2664	G2545	C2482	U2420	C2359	A2482	C	C	A2077	U2018	U1955
G2724	U2665	C2546	U2483	C2421	A2360	U2483	C	C	C2078	G2018	U1956
A2725	A2666	U2547	G2484	A2422	U2361	U2484	C	C	U2079	A2019	U1957
U2726	U2667	U2548	C2485	U2423	G2362	U2485	C	C	G2080	C2020	C1957
G2727	G2668	G2549	U2486	C2424	C2363	U2486	C	C	C2081	C2021	C1958
G2728	A2669	U2550	A2487	A2425	A2364	A2487	C	C	A2082	U2022	G1959
G2729	C2670	C2551	G2488	U2426	G2365	U2488	C	C	G2083	G2023	U1960
G2730	U2671	U2552	C2489	A2427	A2366	U2489	C	C	C2084	G2024	C1962
G2731	A2672	U2553	G2490	G2428	A2367	U2490	C	C	C2085	C2025	U1963
G2732	G2673	U2554	U2491	U2429	C2368	U2491	C	C	U2086	C2026	G1964
G2733	C2674	U2555	U2492	A2430	A2369	U2492	C	C	G2087	G2027	C1965
G2734	A2675	U2556	U2493								

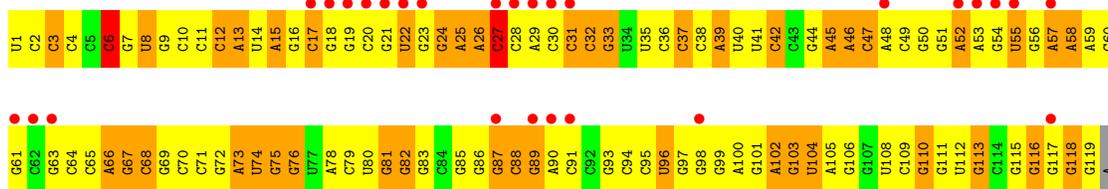


• Molecule 32: 5S ribosomal RNA



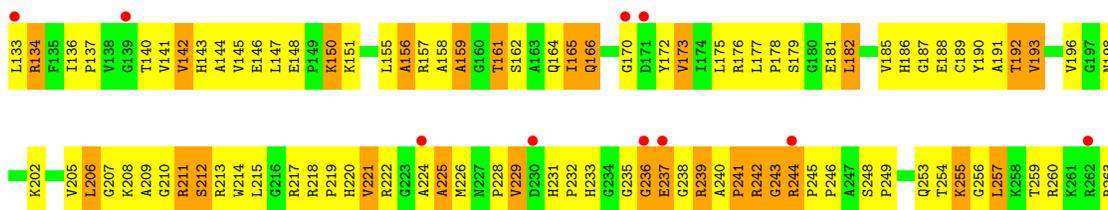
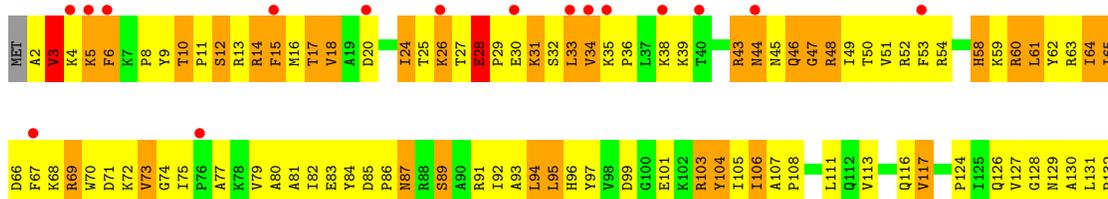
U U

• Molecule 32: 5S ribosomal RNA



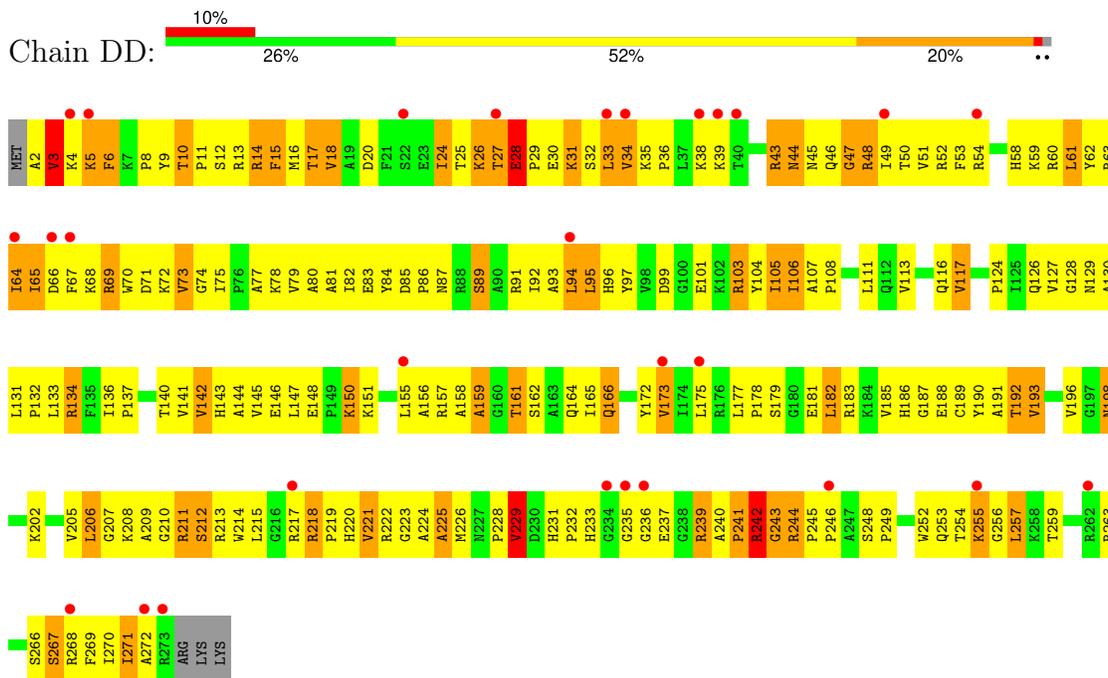
U U

• Molecule 33: 50S ribosomal protein L2

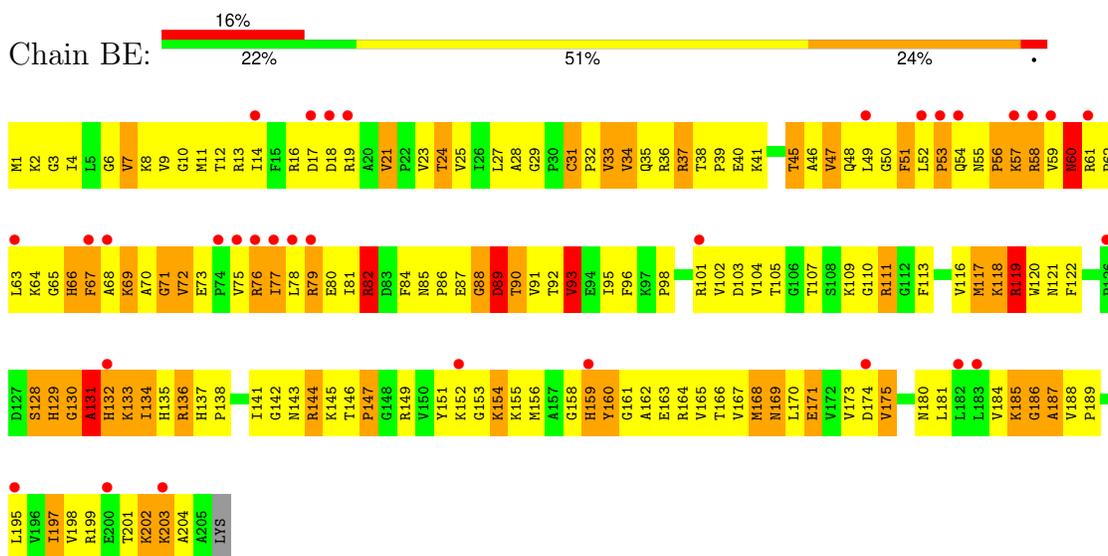




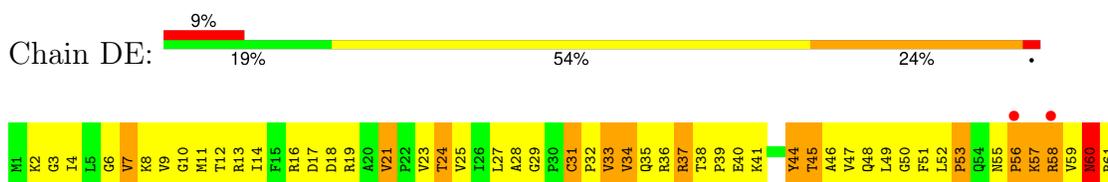
• Molecule 33: 50S ribosomal protein L2



• Molecule 34: 50S ribosomal protein L3

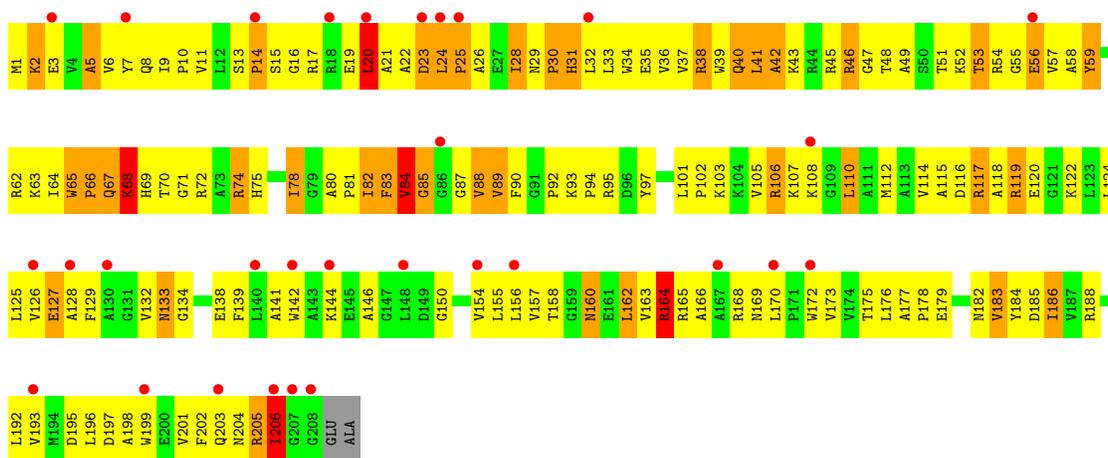


• Molecule 34: 50S ribosomal protein L3

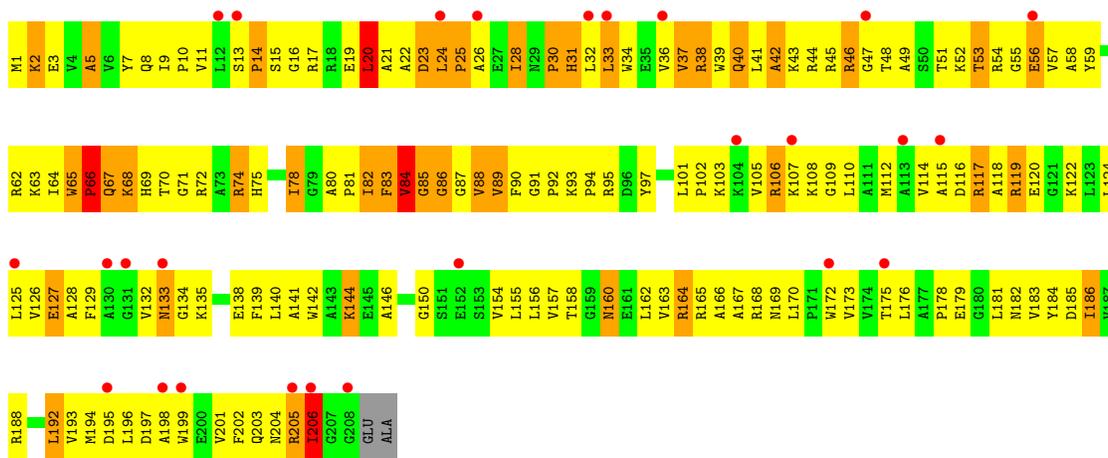




• Molecule 35: 50S ribosomal protein L4

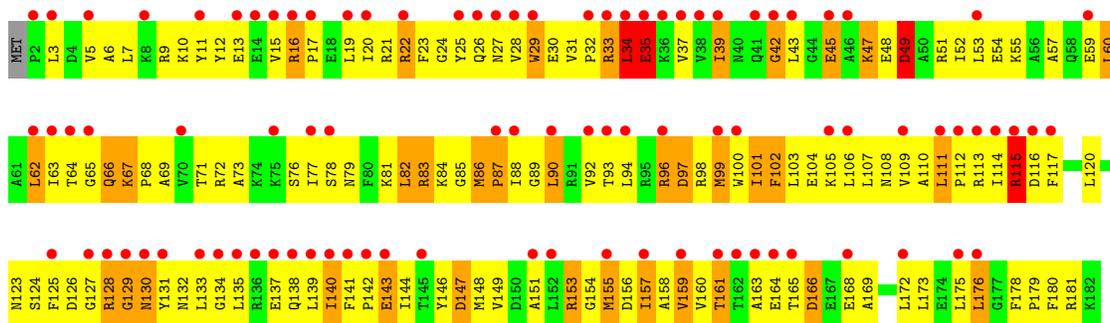


• Molecule 35: 50S ribosomal protein L4

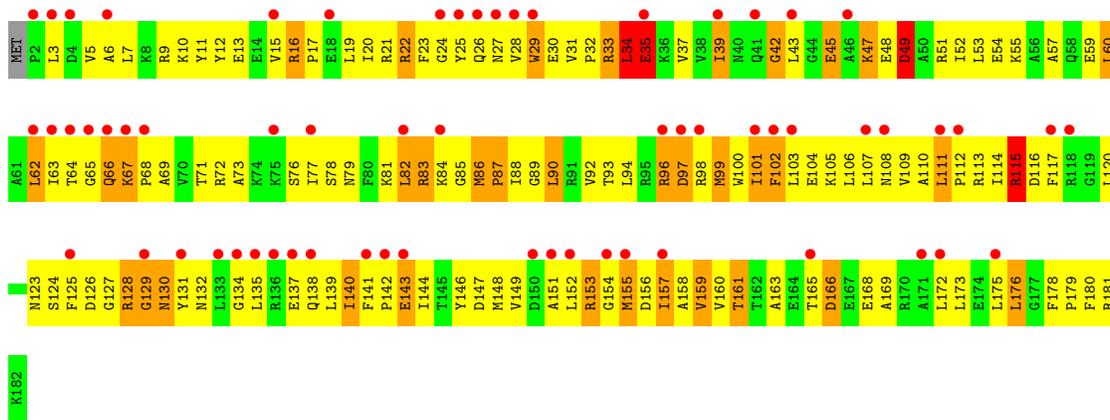


• Molecule 36: 50S ribosomal protein L5

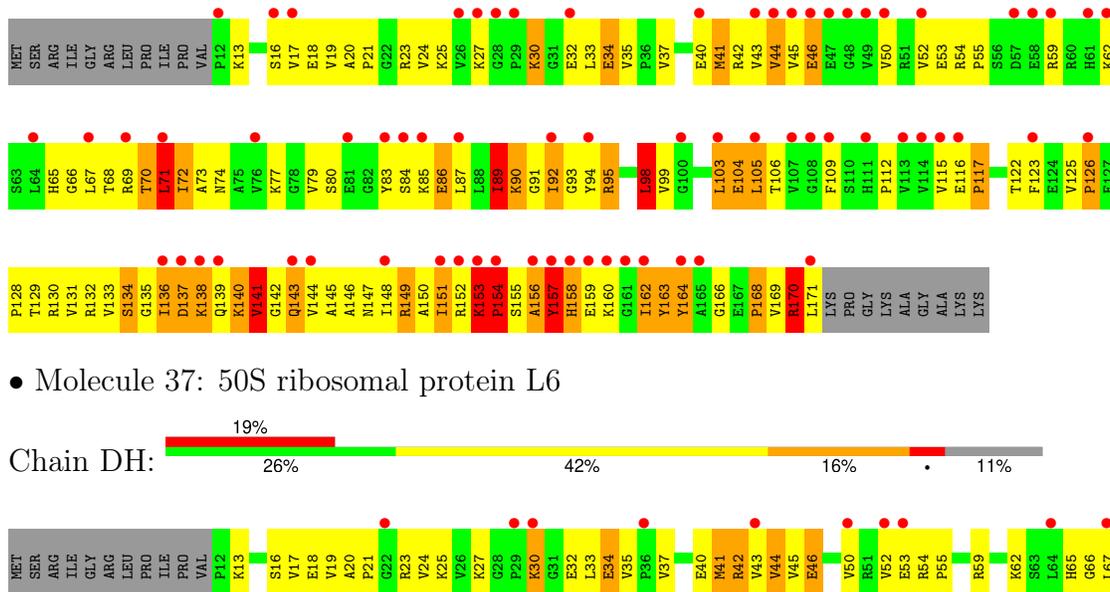




• Molecule 36: 50S ribosomal protein L5

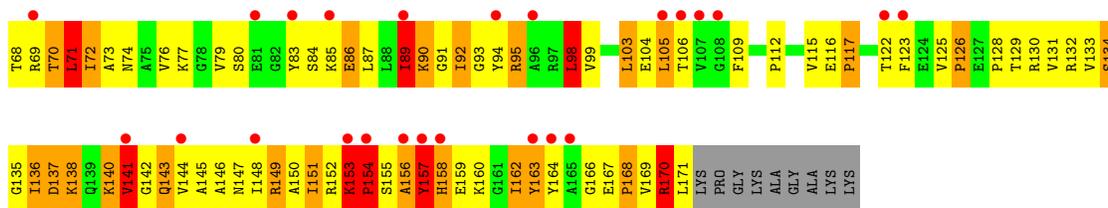


• Molecule 37: 50S ribosomal protein L6



• Molecule 37: 50S ribosomal protein L6

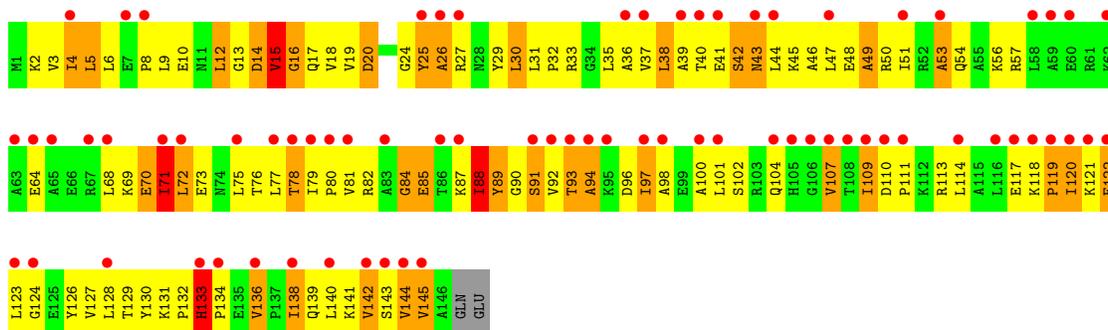




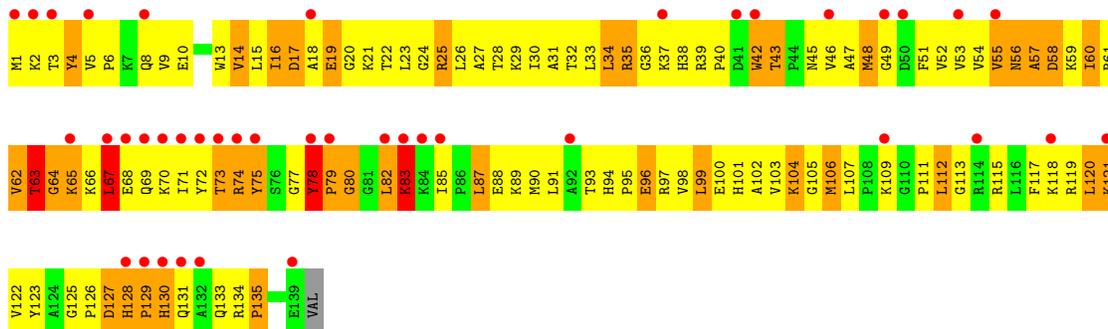
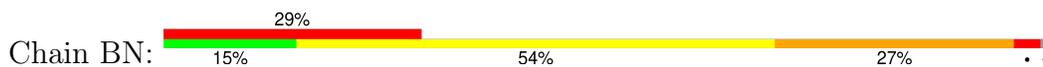
• Molecule 38: 50S ribosomal protein L9



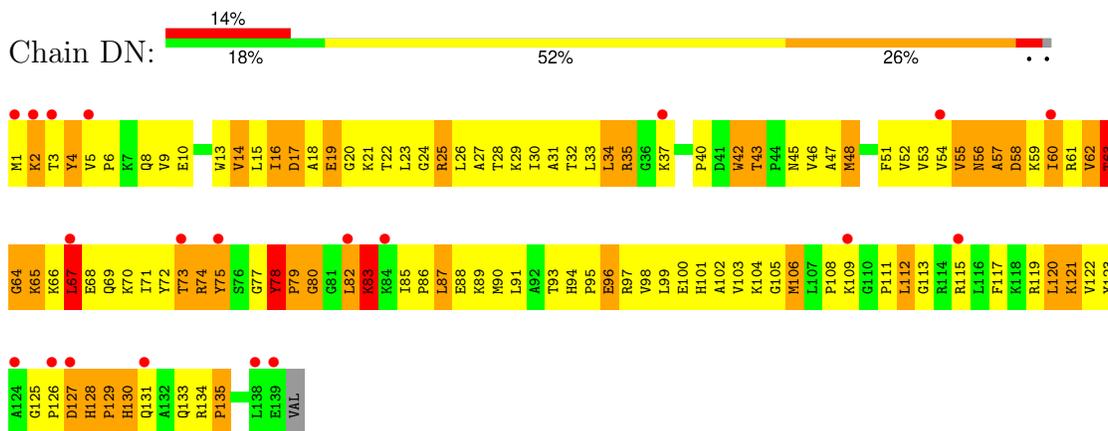
• Molecule 38: 50S ribosomal protein L9



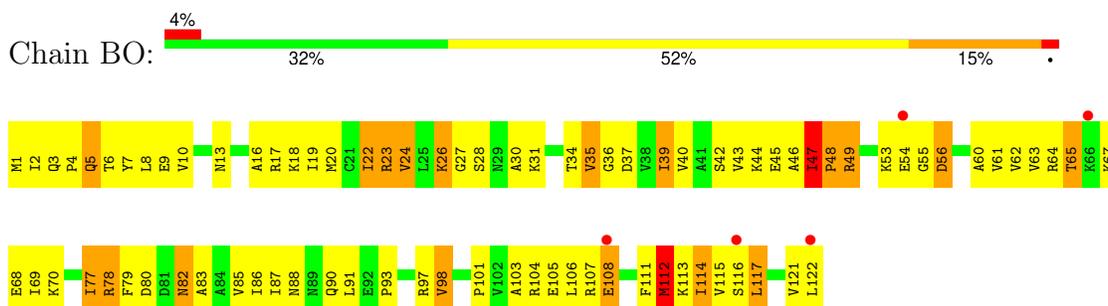
• Molecule 39: 50S ribosomal protein L13



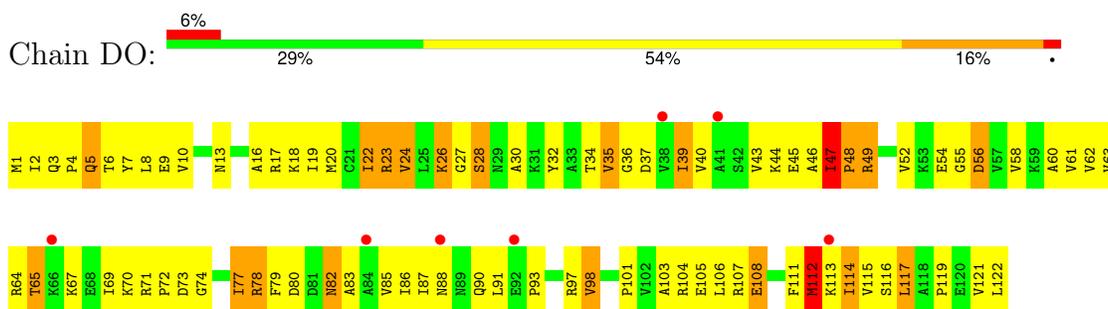
- Molecule 39: 50S ribosomal protein L13



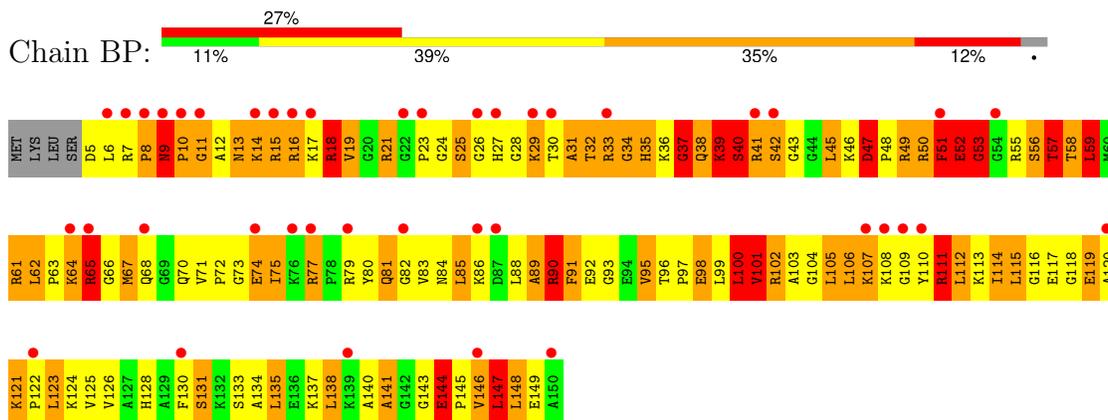
- Molecule 40: 50S ribosomal protein L14



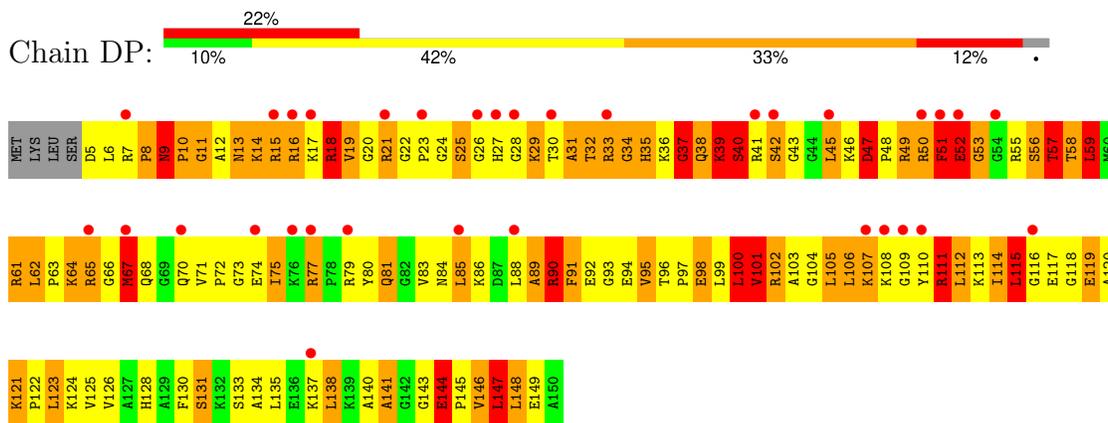
- Molecule 40: 50S ribosomal protein L14



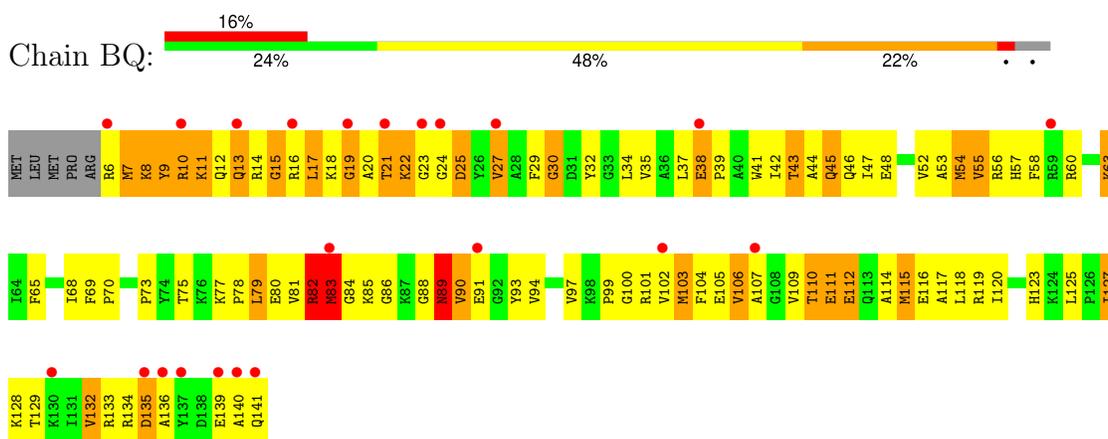
- Molecule 41: 50S ribosomal protein L15



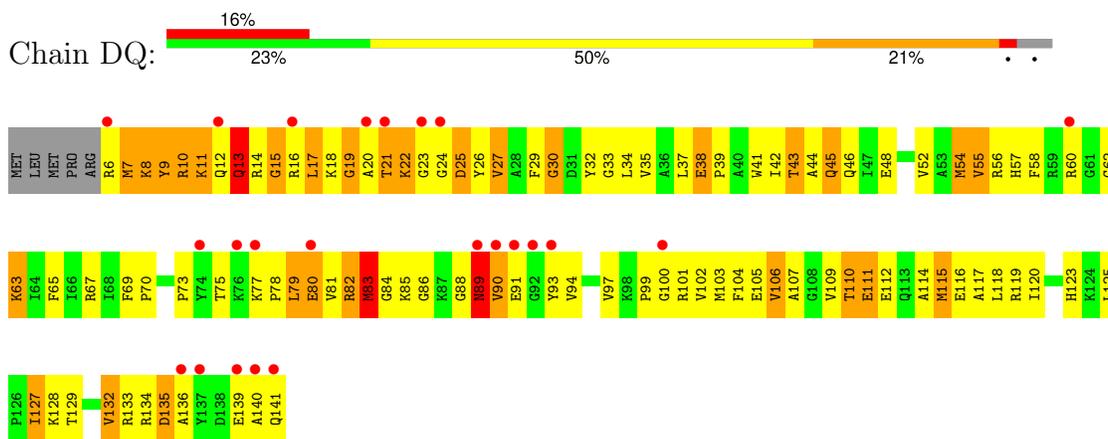
- Molecule 41: 50S ribosomal protein L15



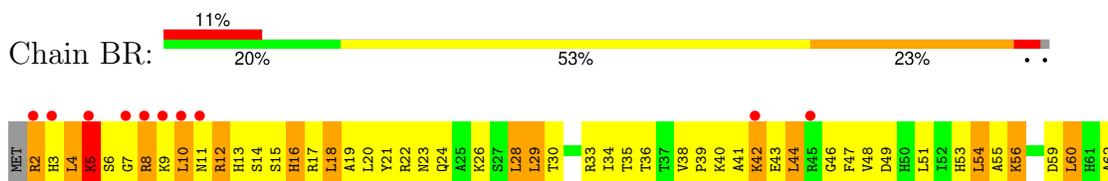
- Molecule 42: 50S ribosomal protein L16



- Molecule 42: 50S ribosomal protein L16



- Molecule 43: 50S ribosomal protein L17





• Molecule 43: 50S ribosomal protein L17



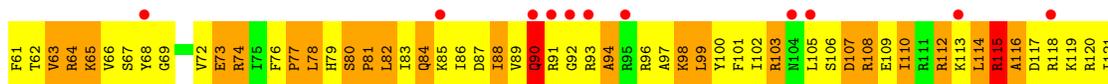
• Molecule 44: 50S ribosomal protein L18



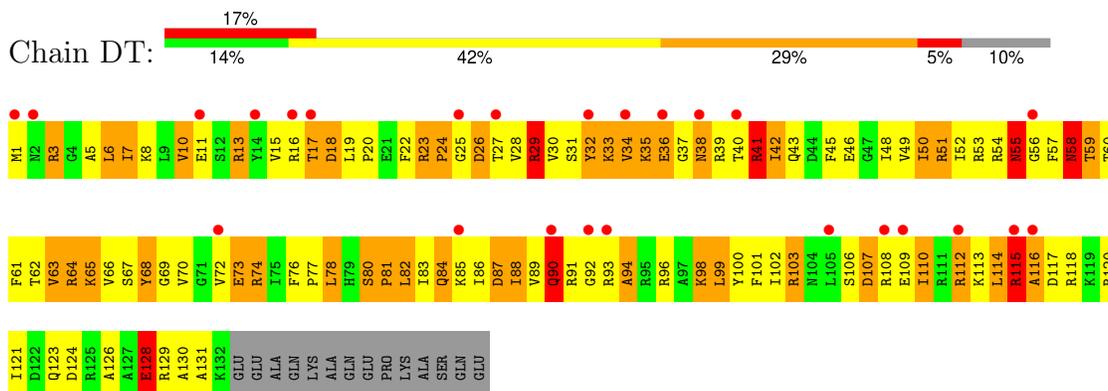
• Molecule 44: 50S ribosomal protein L18

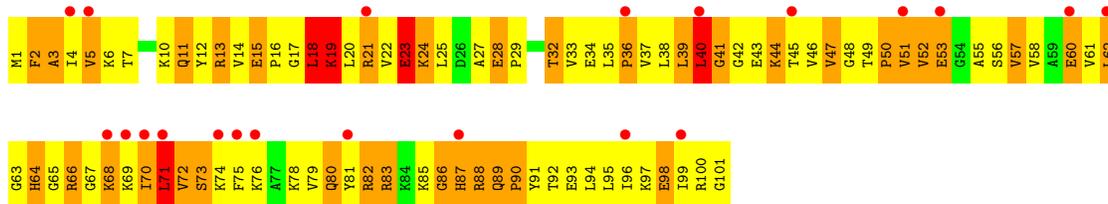


• Molecule 45: 50S ribosomal protein L19

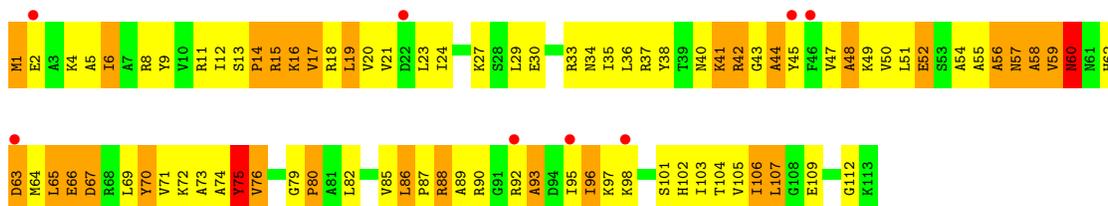


- Molecule 45: 50S ribosomal protein L19





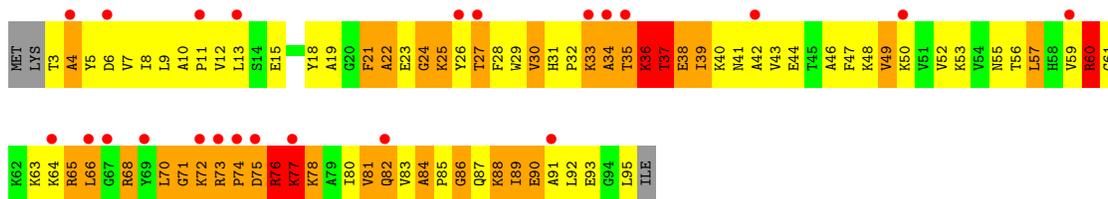
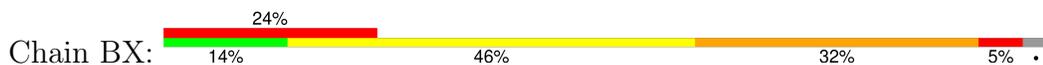
• Molecule 48: 50S ribosomal protein L22



• Molecule 48: 50S ribosomal protein L22



• Molecule 49: 50S ribosomal protein L23



• Molecule 49: 50S ribosomal protein L23







## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	207.32Å 437.99Å 614.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.97 – 3.10 48.97 – 3.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) (48.97-3.10) 91.3 (48.97-3.10)	Depositor EDS
$R_{merge}$	0.18	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.30 (at 3.12Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.246 , 0.284 0.242 , 0.279	Depositor DCC
$R_{free}$ test set	45926 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	88.4	Xtrriage
Anisotropy	0.168	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.29 , 112.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.44$ , $\langle L^2 \rangle = 0.26$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.90	EDS
Total number of atoms	278037	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	110.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: K, ZN, TEL, MG

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	0.54	2/36190 (0.0%)	0.91	51/56486 (0.1%)
1	CA	0.52	2/36190 (0.0%)	0.92	61/56486 (0.1%)
2	AB	0.28	0/1936	0.49	0/2611
2	CB	0.28	0/1936	0.48	0/2611
3	AC	0.27	0/1637	0.45	0/2207
3	CC	0.27	0/1637	0.44	0/2207
4	AD	0.32	0/1733	0.54	0/2318
4	CD	0.34	0/1733	0.55	0/2318
5	AE	0.36	0/1163	0.55	0/1566
5	CE	0.34	0/1163	0.55	0/1566
6	AF	0.35	0/856	0.57	0/1154
6	CF	0.35	0/856	0.56	0/1154
7	AG	0.26	0/1276	0.43	0/1709
7	CG	0.26	0/1276	0.43	0/1709
8	AH	0.36	0/1136	0.56	0/1527
8	CH	0.35	0/1136	0.56	0/1527
9	AI	0.28	0/1028	0.44	0/1375
9	CI	0.28	0/1028	0.44	0/1375
10	AJ	0.27	0/808	0.48	0/1087
10	CJ	0.27	0/808	0.48	0/1087
11	AK	0.34	0/900	0.55	0/1213
11	CK	0.33	0/900	0.55	0/1213
12	AL	0.40	0/987	0.65	0/1322
12	CL	0.40	0/987	0.66	0/1322
13	AM	0.28	0/928	0.48	0/1238
13	CM	0.28	0/928	0.48	0/1238
14	AN	0.28	0/501	0.46	0/664
14	CN	0.29	0/501	0.46	0/664
15	AO	0.35	0/745	0.55	0/992
15	CO	0.34	0/745	0.54	0/992
16	AP	0.34	0/717	0.55	0/965
16	CP	0.34	0/717	0.56	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AQ	0.35	0/837	0.56	0/1119
17	CQ	0.35	0/837	0.55	0/1119
18	AR	0.35	0/579	0.57	0/768
18	CR	0.34	0/579	0.57	0/768
19	AS	0.28	0/643	0.45	0/867
19	CS	0.29	0/643	0.45	0/867
20	AT	0.34	0/765	0.53	0/1007
20	CT	0.34	0/765	0.54	0/1007
21	AU	0.26	0/213	0.42	0/279
21	CU	0.28	0/213	0.43	0/279
22	B0	0.60	0/658	0.75	0/878
22	D0	0.54	0/658	0.73	0/878
23	B1	0.69	0/700	0.97	0/931
23	D1	0.61	0/700	0.92	1/931 (0.1%)
24	B2	0.61	0/423	0.92	1/560 (0.2%)
24	D2	0.55	0/423	0.88	1/560 (0.2%)
25	B3	0.62	0/473	0.71	0/636
25	D3	0.45	0/473	0.66	0/636
26	B4	0.26	0/156	0.53	0/215
26	D4	0.28	0/156	0.52	0/215
27	B5	0.83	2/473 (0.4%)	1.04	3/639 (0.5%)
27	D5	0.67	0/473	1.01	3/639 (0.5%)
28	B6	0.73	0/387	0.91	2/517 (0.4%)
28	D6	0.60	0/387	0.85	1/517 (0.2%)
29	B7	0.67	0/427	0.83	0/563
29	D7	0.61	0/427	0.81	0/563
30	B8	0.72	0/516	0.98	1/681 (0.1%)
30	D8	0.61	0/516	0.94	1/681 (0.1%)
31	BA	1.17	111/65745 (0.2%)	1.49	1343/102639 (1.3%)
31	DA	0.89	28/65745 (0.0%)	1.45	1209/102639 (1.2%)
32	BB	0.87	0/2853	1.26	35/4451 (0.8%)
32	DB	0.63	0/2853	1.18	25/4451 (0.6%)
33	BD	0.63	0/2155	0.85	3/2907 (0.1%)
33	DD	0.58	0/2155	0.82	2/2907 (0.1%)
34	BE	0.69	0/1597	0.87	2/2155 (0.1%)
34	DE	0.58	0/1597	0.83	0/2155
35	BF	0.65	2/1659 (0.1%)	0.77	0/2246
35	DF	0.53	1/1659 (0.1%)	0.74	0/2246
36	BG	0.37	0/1498	0.61	1/2013 (0.0%)
36	DG	0.35	0/1498	0.59	1/2013 (0.0%)
37	BH	0.57	0/1246	0.71	0/1684
37	DH	0.41	0/1246	0.66	0/1684
38	BI	0.40	0/1147	0.65	0/1553

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
38	DI	0.43	0/1147	0.66	1/1553 (0.1%)
39	BN	0.71	0/1132	0.83	0/1527
39	DN	0.56	0/1132	0.76	0/1527
40	BO	0.62	0/943	0.74	0/1269
40	DO	0.53	0/943	0.73	0/1269
41	BP	0.65	0/1131	0.98	5/1504 (0.3%)
41	DP	0.56	0/1131	0.94	4/1504 (0.3%)
42	BQ	0.66	0/1100	0.80	1/1470 (0.1%)
42	DQ	0.55	0/1100	0.74	0/1470
43	BR	0.69	0/974	0.82	1/1302 (0.1%)
43	DR	0.57	0/974	0.80	2/1302 (0.2%)
44	BS	0.52	0/779	0.75	0/1038
44	DS	0.43	0/779	0.72	0/1038
45	BT	0.58	0/1114	0.82	0/1488
45	DT	0.52	0/1114	0.79	0/1488
46	BU	0.70	0/975	0.80	2/1297 (0.2%)
46	DU	0.56	0/975	0.74	1/1297 (0.1%)
47	BV	0.69	0/789	0.89	0/1054
47	DV	0.54	0/789	0.84	1/1054 (0.1%)
48	BW	0.76	0/907	0.91	1/1216 (0.1%)
48	DW	0.61	0/907	0.88	0/1216
49	BX	0.72	0/740	0.92	0/995
49	DX	0.63	0/740	0.90	0/995
50	BY	0.65	0/789	0.86	0/1053
50	DY	0.53	0/789	0.81	0/1053
51	BZ	0.46	0/1436	0.62	1/1951 (0.1%)
51	DZ	0.40	0/1436	0.61	1/1951 (0.1%)
All	All	0.79	148/301000 (0.0%)	1.17	2768/449812 (0.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	CA	1	0
22	B0	0	1
22	D0	0	1
23	B1	0	1
23	D1	0	1
24	B2	0	1
24	D2	0	1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	#Chirality outliers	#Planarity outliers
27	B5	0	1
27	D5	0	1
31	BA	18	0
31	DA	18	0
33	BD	0	4
33	DD	0	2
34	BE	0	2
34	DE	0	2
37	BH	0	1
37	DH	0	1
41	BP	0	5
41	DP	0	3
42	BQ	0	1
42	DQ	0	1
43	BR	0	1
43	DR	0	1
45	BT	0	1
45	DT	0	1
47	BV	0	1
47	DV	0	2
49	BX	0	2
49	DX	0	3
All	All	37	42

All (148) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	1142(A)	A	N9-C4	-11.15	1.31	1.37
31	BA	783	A	N9-C4	-10.64	1.31	1.37
31	BA	669	G	C4'-C3'	-10.15	1.42	1.53
31	BA	774	A	N9-C4	-9.61	1.32	1.37
31	DA	1142(A)	A	N9-C4	-9.23	1.32	1.37
31	DA	1694	C	C4'-C3'	-9.11	1.43	1.53
31	BA	1142(A)	A	N3-C4	-8.55	1.29	1.34
31	DA	669	G	C4'-C3'	-8.53	1.43	1.53
31	DA	1332	G	N9-C4	-8.29	1.31	1.38
31	BA	1021	A	N9-C4	-8.25	1.32	1.37
31	BA	1694	C	C4'-C3'	-8.16	1.44	1.53
31	BA	2346	A	N3-C4	-7.96	1.30	1.34
31	BA	676	A	N9-C4	-7.90	1.33	1.37
31	BA	933	A	N9-C4	-7.60	1.33	1.37
31	BA	528	A	N9-C4	-7.49	1.33	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	2376	A	N3-C4	7.42	1.39	1.34
31	BA	330	A	N9-C4	-7.38	1.33	1.37
31	DA	774	A	N9-C4	-7.36	1.33	1.37
31	BA	1332	G	N9-C4	-7.30	1.32	1.38
31	BA	2713	A	N9-C4	-7.19	1.33	1.37
31	DA	2725	A	N9-C4	-7.04	1.33	1.37
31	DA	1300	U	C4'-C3'	-6.96	1.45	1.53
31	DA	783	A	N9-C4	-6.91	1.33	1.37
31	BA	652	C	O3'-P	6.87	1.69	1.61
31	BA	2430	A	N7-C5	-6.71	1.35	1.39
31	BA	1300	U	C4'-C3'	-6.63	1.45	1.53
31	BA	2034	U	P-OP2	-6.57	1.37	1.49
31	BA	197	A	N9-C4	-6.56	1.33	1.37
31	BA	751	A	N9-C4	-6.47	1.33	1.37
31	DA	2346	A	N3-C4	-6.47	1.30	1.34
31	BA	2589	A	N9-C4	-6.42	1.34	1.37
31	BA	1616	A	N9-C4	-6.34	1.34	1.37
31	BA	2561	A	N9-C4	-6.33	1.34	1.37
35	BF	65	TRP	CB-CG	-6.33	1.38	1.50
31	BA	751	A	N3-C4	-6.31	1.31	1.34
31	BA	2376	A	C6-N1	6.31	1.40	1.35
31	DA	528	A	N9-C4	-6.31	1.34	1.37
31	DA	656	G	P-O5'	6.29	1.66	1.59
31	BA	652	C	C3'-O3'	6.29	1.50	1.42
31	BA	2518	A	N9-C4	-6.28	1.34	1.37
31	BA	2616	C	N3-C4	-6.28	1.29	1.33
31	DA	2589	A	N9-C4	-6.28	1.34	1.37
31	BA	1677	A	N9-C4	-6.27	1.34	1.37
31	BA	783	A	N3-C4	-6.25	1.31	1.34
31	BA	2531	A	N9-C4	-6.24	1.34	1.37
31	BA	189	G	N9-C4	-6.23	1.32	1.38
31	DA	652	C	O3'-P	6.23	1.68	1.61
31	BA	1132	A	N3-C4	-6.21	1.31	1.34
31	BA	1021	A	N7-C5	-6.19	1.35	1.39
31	BA	990	A	N9-C4	-6.14	1.34	1.37
31	BA	774	A	N3-C4	-6.13	1.31	1.34
1	AA	889	A	N9-C4	-6.10	1.34	1.37
31	BA	1189	A	C5-C6	-6.03	1.35	1.41
31	DA	652	C	P-O5'	6.02	1.65	1.59
31	BA	2575	C	N1-C6	-6.00	1.33	1.37
31	BA	2287	A	N3-C4	-5.99	1.31	1.34
31	BA	752	A	N7-C5	-5.97	1.35	1.39

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	676	A	N3-C4	-5.96	1.31	1.34
31	BA	2061	G	C5-C4	-5.95	1.34	1.38
31	BA	2448	A	N3-C4	-5.93	1.31	1.34
31	BA	1021	A	N3-C4	-5.93	1.31	1.34
31	BA	525	U	N1-C2	-5.91	1.33	1.38
31	BA	197	A	N3-C4	-5.91	1.31	1.34
31	BA	567	A	N7-C5	-5.90	1.35	1.39
31	DA	671	C	N1-C6	-5.89	1.33	1.37
31	BA	2346	A	N9-C4	-5.87	1.34	1.37
31	BA	2287	A	N9-C4	-5.85	1.34	1.37
31	DA	222	A	N9-C4	-5.84	1.34	1.37
31	DA	652	C	C3'-O3'	5.83	1.50	1.42
31	BA	580	C	N1-C6	-5.82	1.33	1.37
31	BA	652	C	P-O5'	5.82	1.65	1.59
31	BA	656	G	P-O5'	5.81	1.65	1.59
27	B5	49	CYS	CB-SG	-5.76	1.72	1.81
31	DA	2518	A	N9-C4	-5.75	1.34	1.37
31	BA	1241	A	N9-C4	-5.75	1.34	1.37
31	BA	1570	A	N9-C4	-5.71	1.34	1.37
31	BA	2826	A	N9-C4	-5.70	1.34	1.37
31	BA	2017	U	C2-N3	-5.69	1.33	1.37
31	BA	980	A	N7-C5	-5.67	1.35	1.39
31	BA	528	A	N3-C4	-5.66	1.31	1.34
31	BA	2052	G	N7-C5	-5.65	1.35	1.39
31	BA	980	A	C5-C6	-5.62	1.35	1.41
31	BA	1254	A	P-O5'	-5.58	1.54	1.59
31	DA	1758	G	N9-C4	-5.56	1.33	1.38
31	DA	1608	A	N9-C4	-5.53	1.34	1.37
31	BA	783	A	N7-C5	-5.49	1.35	1.39
31	BA	1275	A	C5-C6	-5.46	1.36	1.41
31	BA	664	C	N1-C6	-5.46	1.33	1.37
31	BA	1210	A	C6-N6	-5.46	1.29	1.33
31	BA	832	G	C2-N3	-5.45	1.28	1.32
31	BA	1303	G	N9-C8	-5.44	1.34	1.37
31	BA	1784	A	N3-C4	-5.44	1.31	1.34
31	DA	197	A	N3-C4	-5.42	1.31	1.34
31	BA	1934	C	C4'-C3'	-5.42	1.47	1.52
31	BA	1252	G	C5-C4	-5.41	1.34	1.38
31	BA	198	C	N1-C6	-5.39	1.33	1.37
31	BA	2245	U	C4-O4	5.39	1.27	1.23
31	BA	1982	C	N1-C6	-5.37	1.33	1.37
27	B5	33	CYS	CB-SG	5.36	1.91	1.82

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	616	G	N3-C4	-5.35	1.31	1.35
31	BA	470	A	N3-C4	-5.32	1.31	1.34
31	BA	2548	G	N3-C4	-5.32	1.31	1.35
31	BA	2613	U	C2-N3	-5.31	1.34	1.37
35	DF	65	TRP	CB-CG	-5.31	1.40	1.50
31	BA	2822	G	N9-C4	-5.30	1.33	1.38
31	DA	1791	A	N9-C4	-5.30	1.34	1.37
31	DA	2572	A	N9-C4	-5.29	1.34	1.37
31	BA	1966	A	N9-C4	-5.28	1.34	1.37
31	BA	914	C	N3-C4	-5.27	1.30	1.33
31	BA	2361	A	N9-C4	-5.26	1.34	1.37
31	BA	495	G	N9-C8	-5.24	1.34	1.37
31	BA	2346	A	N7-C5	-5.24	1.36	1.39
31	BA	805	G	C5-C6	-5.22	1.37	1.42
31	BA	1256	G	C8-N7	-5.20	1.27	1.30
31	BA	2639	A	N9-C4	-5.20	1.34	1.37
31	BA	671	C	N1-C6	-5.18	1.34	1.37
1	AA	55	A	N7-C5	-5.18	1.36	1.39
31	BA	2274	A	N9-C4	-5.18	1.34	1.37
31	BA	2778	A	C6-N1	-5.18	1.31	1.35
31	DA	1899	G	N9-C4	-5.17	1.33	1.38
35	BF	59	TYR	CD2-CE2	-5.16	1.31	1.39
31	DA	1495	A	N9-C4	5.15	1.41	1.37
31	BA	777	A	N3-C4	-5.14	1.31	1.34
31	DA	1968	G	N9-C4	-5.14	1.33	1.38
31	BA	2590	A	N9-C4	-5.11	1.34	1.37
31	BA	1616	A	N7-C5	-5.11	1.36	1.39
31	BA	669	G	C4'-O4'	-5.09	1.39	1.45
31	DA	272	G	N9-C4	5.09	1.42	1.38
31	BA	1495	A	N9-C4	5.09	1.41	1.37
31	DA	1332	G	N3-C4	-5.09	1.31	1.35
31	BA	2436	G	C6-O6	5.08	1.28	1.24
31	BA	2061	G	P-OP2	-5.08	1.40	1.49
31	BA	21	A	N9-C4	-5.08	1.34	1.37
31	BA	1771	C	N3-C4	-5.08	1.30	1.33
31	BA	2711	A	N9-C4	-5.07	1.34	1.37
31	BA	699	A	N9-C4	-5.07	1.34	1.37
31	BA	832	G	N3-C4	-5.07	1.31	1.35
31	BA	751	A	C6-N1	-5.06	1.32	1.35
31	BA	2461	C	N1-C6	-5.05	1.34	1.37
31	BA	2675	A	N7-C5	-5.04	1.36	1.39
31	BA	2542	A	C5-C6	-5.04	1.36	1.41

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CA	889	A	N9-C4	-5.04	1.34	1.37
31	BA	1827	C	N3-C4	-5.03	1.30	1.33
31	BA	786	C	N3-C4	-5.03	1.30	1.33
31	BA	955	C	N1-C6	-5.03	1.34	1.37
31	BA	1674	G	N7-C5	-5.02	1.36	1.39
1	CA	1468	A	N9-C4	-5.00	1.34	1.37
31	BA	2019	A	N9-C4	-5.00	1.34	1.37

All (2768) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	55	A	C8-N9-C4	-18.55	98.38	105.80
1	AA	55	A	N7-C8-N9	17.45	122.53	113.80
31	BA	1332	G	N3-C4-C5	16.73	136.96	128.60
31	BA	1332	G	N3-C4-N9	-16.73	115.96	126.00
31	BA	814	C	C6-N1-C2	15.82	126.63	120.30
31	DA	1332	G	N3-C4-C5	15.46	136.33	128.60
31	BA	1142(A)	A	C2-N3-C4	-14.50	103.35	110.60
31	DA	1332	G	N3-C4-N9	-14.37	117.38	126.00
31	BA	1332	G	C2-N3-C4	-13.77	105.01	111.90
31	DA	1779	U	C5-C6-N1	-13.74	115.83	122.70
31	BA	676	A	C5-N7-C8	-13.58	97.11	103.90
31	BA	2376	A	N1-C6-N6	13.20	126.52	118.60
31	DA	679	C	N1-C2-O2	-12.95	111.13	118.90
31	DA	2828	C	C6-N1-C2	12.89	125.46	120.30
31	DA	679	C	N3-C2-O2	12.52	130.66	121.90
31	BA	856	C	C6-N1-C2	-12.42	115.33	120.30
31	BA	1779	U	C5-C6-N1	-12.39	116.50	122.70
31	BA	2061	G	N1-C6-O6	-12.38	112.47	119.90
31	DA	678	C	C6-N1-C2	12.16	125.16	120.30
31	BA	142	A	N1-C6-N6	12.15	125.89	118.60
31	BA	2447	G	C6-N1-C2	-12.15	117.81	125.10
31	DA	1786	A	C5-N7-C8	-12.06	97.87	103.90
31	BA	2544	G	N1-C6-O6	12.04	127.12	119.90
31	BA	1258	C	C6-N1-C2	11.85	125.04	120.30
31	BA	676	A	N7-C8-N9	11.84	119.72	113.80
31	BA	774	A	C5-N7-C8	-11.77	98.02	103.90
31	DA	679	C	C6-N1-C2	11.68	124.97	120.30
31	BA	2346	A	C2-N3-C4	-11.65	104.77	110.60
31	DA	664	C	C6-N1-C2	11.61	124.94	120.30
31	BA	678	C	C6-N1-C2	11.52	124.91	120.30
31	BA	201	C	C6-N1-C2	11.38	124.85	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2376	A	N9-C4-C5	-11.28	101.29	105.80
31	BA	409	C	C6-N1-C2	11.19	124.78	120.30
31	DA	201	C	C6-N1-C2	11.18	124.77	120.30
31	BA	2084	C	C6-N1-C2	11.02	124.71	120.30
31	DA	1258	C	C6-N1-C2	11.01	124.70	120.30
31	BA	330	A	C2-N3-C4	-10.96	105.12	110.60
31	BA	208	C	C6-N1-C2	10.91	124.67	120.30
31	DA	1899	G	N3-C4-N9	-10.85	119.49	126.00
31	DA	2231	C	C6-N1-C2	10.83	124.63	120.30
31	BA	796	C	C6-N1-C2	10.81	124.62	120.30
31	DA	1142(A)	A	C2-N3-C4	-10.79	105.20	110.60
31	DA	1332	G	C2-N3-C4	-10.78	106.51	111.90
31	BA	2430	A	C2-N3-C4	-10.74	105.23	110.60
31	DA	2619	C	C6-N1-C2	10.73	124.59	120.30
31	DA	2346	A	C2-N3-C4	-10.73	105.24	110.60
31	DA	1006	C	C6-N1-C2	10.33	124.43	120.30
31	DA	1322	A	C8-N9-C4	10.32	109.93	105.80
31	BA	450	G	C8-N9-C4	-10.21	102.31	106.40
31	BA	2518	A	C5-N7-C8	-10.21	98.80	103.90
31	DA	130	C	C6-N1-C2	10.19	124.37	120.30
31	DA	1261	C	C6-N1-C2	10.18	124.37	120.30
31	BA	141	A	C5-N7-C8	-10.17	98.81	103.90
31	DA	1786	A	N7-C8-N9	10.15	118.88	113.80
31	BA	774	A	C2-N3-C4	-10.14	105.53	110.60
31	BA	678	C	C5-C6-N1	-10.11	115.95	121.00
31	BA	676	A	C2-N3-C4	-10.10	105.55	110.60
31	BA	2447	G	C5-C6-O6	-10.09	122.55	128.60
31	BA	679	C	N1-C2-O2	-9.97	112.92	118.90
31	DA	1899	G	N3-C4-C5	9.96	133.58	128.60
31	DA	1608	A	C2-N3-C4	-9.93	105.63	110.60
31	DA	2042	A	C8-N9-C4	9.93	109.77	105.80
31	BA	814	C	C5-C6-N1	-9.84	116.08	121.00
31	BA	1275	A	N1-C6-N6	9.80	124.48	118.60
31	DA	1784	A	C8-N9-C4	9.77	109.71	105.80
31	DA	1999	C	C6-N1-C2	9.72	124.19	120.30
31	BA	584	C	C6-N1-C2	9.71	124.18	120.30
31	DA	2544	G	C5-C6-O6	-9.69	122.79	128.60
31	BA	783	A	C5-N7-C8	-9.57	99.11	103.90
31	DA	2424	C	C6-N1-C2	9.56	124.12	120.30
31	BA	774	A	N7-C8-N9	9.53	118.57	113.80
31	DA	1786	A	N1-C6-N6	9.53	124.31	118.60
31	DA	1786	A	C4-C5-N7	9.51	115.45	110.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1899	G	N3-C4-N9	-9.50	120.30	126.00
31	DA	2763	G	C8-N9-C4	9.49	110.20	106.40
31	BA	2447	G	C8-N9-C4	9.48	110.19	106.40
31	DA	1638	C	C6-N1-C2	9.48	124.09	120.30
31	DA	2044	C	C6-N1-C2	9.47	124.09	120.30
31	DA	1332	G	C5-N7-C8	-9.47	99.56	104.30
31	BA	1658	C	N1-C2-O2	-9.46	113.22	118.90
31	BA	1261	C	C5-C6-N1	-9.44	116.28	121.00
31	BA	528	A	C2-N3-C4	-9.43	105.89	110.60
1	AA	358	U	C5-C6-N1	9.38	127.39	122.70
31	BA	420	C	C6-N1-C2	9.37	124.05	120.30
31	BA	2503	A	N1-C2-N3	-9.37	124.62	129.30
31	BA	991	C	C6-N1-C2	9.35	124.04	120.30
31	DA	774	A	C2-N3-C4	-9.35	105.93	110.60
31	BA	652	C	C6-N1-C2	-9.29	116.58	120.30
31	BA	739	G	C8-N9-C4	9.28	110.11	106.40
32	DB	64	C	C6-N1-C2	9.28	124.01	120.30
31	BA	148	C	C6-N1-C2	9.26	124.00	120.30
31	BA	1204	A	C2-N3-C4	-9.22	105.99	110.60
31	DA	2827	C	C6-N1-C2	9.21	123.99	120.30
31	BA	1779	U	C2-N1-C1'	-9.21	106.65	117.70
31	DA	2531	A	C8-N9-C4	9.20	109.48	105.80
31	BA	676	A	C4-C5-N7	9.20	115.30	110.70
31	DA	2827	C	C5-C6-N1	-9.18	116.41	121.00
31	DA	1322	A	N7-C8-N9	-9.16	109.22	113.80
31	BA	1021	A	C2-N3-C4	-9.15	106.02	110.60
31	BA	1204	A	C6-C5-N7	-9.12	125.92	132.30
1	CA	921	U	N3-C2-O2	-9.11	115.82	122.20
31	BA	1495	A	N1-C6-N6	9.11	124.07	118.60
31	DA	676	A	N7-C8-N9	9.11	118.36	113.80
31	BA	2713	A	N1-C6-N6	9.08	124.05	118.60
31	BA	1261	C	C6-N1-C2	9.07	123.93	120.30
31	BA	2575	C	C6-N1-C2	9.06	123.93	120.30
31	BA	2447	G	N1-C2-N3	9.06	129.34	123.90
31	BA	945	A	N1-C6-N6	9.03	124.02	118.60
31	BA	2544	G	C5-C6-O6	-9.03	123.18	128.60
31	DA	1204	A	N1-C6-N6	9.03	124.02	118.60
31	BA	2436	G	C5-C6-N1	-9.02	106.99	111.50
31	BA	2447	G	N3-C4-N9	9.02	131.41	126.00
31	DA	2023	G	C5-C6-O6	-9.00	123.20	128.60
31	DA	2575	C	C6-N1-C2	8.99	123.90	120.30
31	BA	272	G	N3-C4-C5	-8.97	124.11	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	945	A	N1-C6-N6	8.97	123.98	118.60
31	BA	1131	G	C8-N9-C4	8.97	109.99	106.40
31	DA	2030	A	N1-C6-N6	8.97	123.98	118.60
31	BA	1241	A	C2-N3-C4	-8.96	106.12	110.60
31	BA	141	A	N7-C8-N9	8.94	118.27	113.80
31	BA	2447	G	N7-C8-N9	-8.92	108.64	113.10
31	BA	130	C	C6-N1-C2	8.91	123.87	120.30
31	DA	676	A	C5-N7-C8	-8.90	99.45	103.90
31	DA	1573	G	C8-N9-C4	8.88	109.95	106.40
31	BA	182	A	N1-C6-N6	8.86	123.91	118.60
31	DA	97	C	C6-N1-C2	8.85	123.84	120.30
31	BA	2061	G	C5-C6-N1	8.82	115.91	111.50
31	DA	805	G	N1-C6-O6	8.82	125.19	119.90
31	BA	47	C	C6-N1-C2	8.82	123.83	120.30
31	BA	2061	G	N3-C2-N2	8.79	126.06	119.90
31	DA	244	A	C8-N9-C4	8.80	109.32	105.80
31	BA	528	A	N3-C4-N9	-8.79	120.37	127.40
31	BA	2822	G	N1-C6-O6	8.78	125.17	119.90
31	DA	330	A	C2-N3-C4	-8.78	106.21	110.60
31	DA	1698	A	C2-N3-C4	-8.78	106.21	110.60
31	BA	2518	A	N7-C8-N9	8.78	118.19	113.80
31	DA	2084	C	C6-N1-C2	8.74	123.79	120.30
31	DA	1974	C	C6-N1-C2	8.73	123.79	120.30
31	DA	148	C	C6-N1-C2	8.73	123.79	120.30
31	DA	2498	C	N1-C2-O2	-8.72	113.67	118.90
31	DA	786	C	C5-C6-N1	-8.72	116.64	121.00
31	BA	1326	U	C5-C6-N1	-8.70	118.35	122.70
31	DA	130	C	C5-C6-N1	-8.70	116.65	121.00
31	DA	991	C	C6-N1-C2	8.69	123.78	120.30
31	BA	238	C	N1-C2-O2	-8.69	113.69	118.90
31	DA	1201	C	C6-N1-C2	8.68	123.77	120.30
31	DA	739	G	C8-N9-C4	8.68	109.87	106.40
31	BA	1204	A	N1-C6-N6	8.67	123.81	118.60
31	BA	2662	A	O4'-C1'-N9	8.67	115.14	108.20
31	DA	1779	U	C2-N1-C1'	-8.65	107.32	117.70
1	AA	55	A	C5-N7-C8	-8.65	99.58	103.90
31	DA	2544	G	N1-C6-O6	8.65	125.09	119.90
31	DA	771	G	C8-N9-C4	8.64	109.86	106.40
31	DA	2713	A	N1-C6-N6	8.64	123.78	118.60
31	BA	771	G	C8-N9-C4	8.61	109.84	106.40
31	DA	693	C	C5-C6-N1	-8.61	116.69	121.00
31	DA	2542	A	N1-C6-N6	8.59	123.76	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2503	A	C2-N3-C4	8.58	114.89	110.60
31	BA	783	A	N1-C6-N6	8.58	123.75	118.60
31	DA	1657	C	N1-C2-O2	-8.57	113.76	118.90
31	DA	612	C	C6-N1-C2	8.56	123.72	120.30
31	BA	1678	G	C4-C5-N7	8.55	114.22	110.80
31	DA	2742	C	C6-N1-C2	8.55	123.72	120.30
31	DA	2253	G	C8-N9-C4	8.54	109.82	106.40
31	BA	1142(A)	A	C5-C6-N1	-8.54	113.43	117.70
31	DA	2033	A	C8-N9-C4	8.50	109.20	105.80
31	BA	1820	U	C5-C6-N1	-8.50	118.45	122.70
31	DA	2253	G	N9-C4-C5	-8.49	102.00	105.40
31	DA	840	C	C6-N1-C2	8.47	123.69	120.30
31	DA	1565	C	C6-N1-C2	8.47	123.69	120.30
31	BA	2713	A	C5-N7-C8	-8.45	99.67	103.90
31	DA	2518	A	C5-N7-C8	-8.44	99.68	103.90
31	DA	2436	G	C5-C6-N1	-8.43	107.28	111.50
31	DA	1685	C	C6-N1-C2	8.42	123.67	120.30
31	BA	1142(A)	A	N1-C2-N3	8.41	133.51	129.30
31	DA	1126	A	C8-N9-C4	8.41	109.17	105.80
31	BA	1201	C	N1-C2-O2	-8.41	113.86	118.90
31	DA	693	C	C2-N3-C4	-8.40	115.70	119.90
31	DA	1786	A	C6-C5-N7	-8.38	126.43	132.30
31	DA	1790	C	C6-N1-C2	8.38	123.65	120.30
31	DA	1830	C	C6-N1-C2	8.37	123.65	120.30
31	BA	676	A	C6-C5-N7	-8.36	126.45	132.30
31	DA	1204	A	C6-C5-N7	-8.35	126.45	132.30
31	DA	1772	G	C8-N9-C4	8.33	109.73	106.40
31	DA	1899	G	C8-N9-C1'	8.32	137.82	127.00
31	DA	1784	A	C2-N3-C4	-8.31	106.44	110.60
31	DA	2013	A	C8-N9-C4	8.31	109.12	105.80
31	DA	2662	A	O4'-C1'-N9	8.30	114.84	108.20
31	BA	2346	A	N1-C2-N3	8.29	133.44	129.30
31	DA	1266	G	C8-N9-C4	8.28	109.71	106.40
31	BA	840	C	C6-N1-C2	8.27	123.61	120.30
31	BA	142	A	C5-N7-C8	-8.27	99.77	103.90
31	DA	2488	A	C8-N9-C4	8.27	109.11	105.80
31	BA	2687	U	C5-C6-N1	-8.24	118.58	122.70
31	DA	980	A	C8-N9-C4	8.23	109.09	105.80
31	BA	2084	C	C5-C6-N1	-8.22	116.89	121.00
31	DA	817	C	C6-N1-C2	8.22	123.59	120.30
31	BA	948	G	N1-C6-O6	8.21	124.83	119.90
31	BA	2711	A	C8-N9-C4	8.21	109.08	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	2678	C	C6-N1-C2	8.21	123.58	120.30
31	DA	2502	G	C4-C5-N7	8.21	114.08	110.80
31	DA	2061	G	N3-C2-N2	8.20	125.64	119.90
1	CA	893	C	C6-N1-C2	8.18	123.57	120.30
31	DA	630	G	C8-N9-C4	8.18	109.67	106.40
31	DA	580	C	N1-C2-O2	-8.18	113.99	118.90
31	DA	856	C	C6-N1-C2	-8.17	117.03	120.30
31	DA	1790	C	C5-C6-N1	-8.17	116.91	121.00
31	DA	927	G	N1-C6-O6	8.17	124.80	119.90
31	DA	2017	U	C5-C6-N1	-8.17	118.62	122.70
31	BA	474	G	C8-N9-C4	-8.16	103.13	106.40
31	BA	488	G	C5-C6-O6	8.16	133.50	128.60
31	BA	1253	A	C8-N9-C4	8.16	109.06	105.80
31	BA	1899	G	C8-N9-C1'	8.16	137.60	127.00
31	DA	94(A)	G	N1-C6-O6	8.15	124.79	119.90
31	BA	2542	A	N1-C6-N6	8.15	123.49	118.60
31	DA	211	A	C8-N9-C4	8.14	109.06	105.80
31	DA	1678	G	C4-C5-N7	8.14	114.06	110.80
31	BA	1256	G	N1-C6-O6	8.13	124.78	119.90
31	BA	664	C	C6-N1-C2	8.12	123.55	120.30
31	DA	2326	C	C6-N1-C2	-8.12	117.05	120.30
31	BA	142	A	C6-C5-N7	-8.12	126.62	132.30
31	DA	676	A	N1-C6-N6	8.12	123.47	118.60
31	DA	1192	G	C8-N9-C4	8.12	109.65	106.40
32	DB	104	U	C6-N1-C2	8.12	125.87	121.00
31	DA	2622	C	C6-N1-C2	8.11	123.55	120.30
31	DA	450	G	C8-N9-C4	-8.11	103.16	106.40
31	DA	2841	C	C6-N1-C2	8.09	123.53	120.30
31	BA	2066	C	C6-N1-C2	8.08	123.53	120.30
31	BA	2059	A	C2-N3-C4	-8.08	106.56	110.60
31	BA	236	C	C6-N1-C2	8.07	123.53	120.30
31	DA	805	G	C5-C6-O6	-8.07	123.76	128.60
31	BA	262	A	C8-N9-C4	8.06	109.03	105.80
31	BA	528	A	C5-C6-N1	-8.06	113.67	117.70
31	BA	2466	C	C6-N1-C2	8.06	123.52	120.30
31	DA	1021	A	C2-N3-C4	-8.05	106.58	110.60
31	DA	2763	G	N7-C8-N9	-8.04	109.08	113.10
31	DA	528	A	N3-C4-N9	-8.03	120.98	127.40
31	BA	2376	A	C5-C6-N6	-8.02	117.28	123.70
31	BA	2779	U	C5-C6-N1	-8.02	118.69	122.70
31	BA	1616	A	N7-C8-N9	8.02	117.81	113.80
31	BA	2056	G	C5-C6-O6	-8.01	123.79	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1614	A	N1-C6-N6	8.00	123.40	118.60
31	BA	2723	C	C6-N1-C2	8.00	123.50	120.30
31	BA	1899	G	C4-N9-C1'	-7.99	116.11	126.50
31	BA	1977	A	C2-N3-C4	-7.99	106.61	110.60
32	DB	17	C	C6-N1-C2	-7.99	117.10	120.30
31	DA	1899	G	C4-N9-C1'	-7.97	116.14	126.50
31	DA	652	C	C6-N1-C2	-7.97	117.11	120.30
31	BA	2070	G	C8-N9-C4	7.96	109.59	106.40
31	BA	577	G	N1-C6-O6	7.95	124.67	119.90
31	DA	753	C	C6-N1-C2	7.94	123.48	120.30
31	BA	2242	G	N1-C6-O6	7.94	124.66	119.90
31	DA	2330	G	C8-N9-C4	7.94	109.58	106.40
31	BA	2017	U	C5-C6-N1	-7.93	118.73	122.70
31	DA	512	G	C4-N9-C1'	-7.93	116.18	126.50
31	BA	2002	G	N1-C6-O6	7.93	124.66	119.90
31	DA	948	G	N3-C4-C5	7.93	132.56	128.60
31	BA	1616	A	C5-N7-C8	-7.93	99.94	103.90
31	DA	2252	G	C8-N9-C4	7.93	109.57	106.40
31	BA	94(A)	G	N1-C6-O6	7.92	124.65	119.90
31	DA	2742	C	C5-C6-N1	-7.91	117.05	121.00
31	BA	622	G	C8-N9-C4	7.90	109.56	106.40
31	BA	1021	A	N1-C6-N6	7.90	123.34	118.60
31	BA	201	C	N3-C4-C5	7.90	125.06	121.90
31	DA	1677	A	C8-N9-C4	7.89	108.96	105.80
31	BA	2672	G	N1-C6-O6	7.87	124.62	119.90
31	BA	581	C	C6-N1-C2	7.86	123.44	120.30
31	DA	1653	G	N3-C4-C5	-7.86	124.67	128.60
31	BA	450	G	N7-C8-N9	7.85	117.03	113.10
31	DA	577	G	N3-C4-C5	7.85	132.52	128.60
31	BA	2002	G	C5-C6-O6	-7.84	123.90	128.60
31	BA	1021	A	C5-N7-C8	-7.83	99.98	103.90
31	DA	945	A	C2-N3-C4	-7.83	106.69	110.60
31	BA	581	C	C5-C6-N1	-7.83	117.09	121.00
31	DA	1308	A	C2-N3-C4	-7.82	106.69	110.60
31	BA	558	G	C8-N9-C4	7.81	109.52	106.40
31	DA	1252	G	C8-N9-C4	7.81	109.52	106.40
31	DA	1528	A	C8-N9-C4	-7.80	102.68	105.80
31	BA	2713	A	C2-N3-C4	-7.80	106.70	110.60
31	DA	2619	C	C5-C6-N1	-7.79	117.11	121.00
31	DA	2881	C	N1-C2-O2	-7.79	114.23	118.90
31	DA	208	C	C6-N1-C2	7.79	123.42	120.30
1	CA	810	C	C6-N1-C2	7.78	123.41	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2689	U	C5-C4-O4	7.78	130.57	125.90
31	DA	1210	A	N1-C6-N6	7.78	123.27	118.60
32	BB	103	G	N3-C4-C5	7.78	132.49	128.60
31	BA	783	A	N7-C8-N9	7.77	117.69	113.80
31	DA	683	C	N3-C4-C5	7.76	125.00	121.90
31	BA	2014	A	N1-C6-N6	7.75	123.25	118.60
31	BA	2710	C	C6-N1-C2	7.74	123.40	120.30
31	BA	1193	G	C8-N9-C4	7.74	109.49	106.40
31	BA	599	G	C8-N9-C4	7.73	109.49	106.40
31	BA	2676	C	C5-C6-N1	-7.73	117.13	121.00
31	BA	676	A	C8-N9-C4	-7.73	102.71	105.80
31	DA	618	C	C6-N1-C2	7.73	123.39	120.30
31	DA	2023	G	N1-C6-O6	7.73	124.54	119.90
31	BA	190	A	N1-C6-N6	7.70	123.22	118.60
31	DA	2598	A	C8-N9-C4	7.70	108.88	105.80
31	BA	2430	A	C6-C5-N7	-7.70	126.91	132.30
31	DA	2329	G	C8-N9-C4	7.69	109.48	106.40
31	DA	1794	U	C5-C6-N1	-7.68	118.86	122.70
31	BA	221	A	C8-N9-C4	-7.68	102.73	105.80
31	BA	1021	A	C6-C5-N7	-7.67	126.93	132.30
31	BA	142	A	C4-C5-N7	7.67	114.54	110.70
1	CA	55	A	C8-N9-C4	-7.67	102.73	105.80
31	DA	244	A	N9-C4-C5	-7.67	102.73	105.80
31	DA	1241	A	C2-N3-C4	-7.67	106.77	110.60
31	BA	1653	G	C4-N9-C1'	7.67	136.46	126.50
31	BA	2283	C	C6-N1-C2	7.67	123.37	120.30
31	DA	460	A	C8-N9-C4	7.66	108.87	105.80
31	DA	2828	C	C5-C6-N1	-7.66	117.17	121.00
31	DA	678	C	C5-C6-N1	-7.66	117.17	121.00
31	BA	2014	A	N9-C4-C5	-7.66	102.74	105.80
31	DA	2447	G	C8-N9-C4	7.65	109.46	106.40
31	BA	2260	C	C6-N1-C2	7.64	123.36	120.30
31	BA	2346	A	C5-C6-N1	-7.64	113.88	117.70
31	DA	1638	C	C5-C6-N1	-7.64	117.18	121.00
31	DA	2253	G	N1-C6-O6	7.64	124.48	119.90
31	BA	762	U	N1-C2-N3	-7.63	110.32	114.90
31	BA	1678	G	C5-N7-C8	-7.63	100.48	104.30
31	BA	2253	G	N9-C4-C5	-7.63	102.35	105.40
31	BA	466	A	C2-N3-C4	-7.62	106.79	110.60
31	BA	2689	U	N3-C4-O4	-7.62	114.06	119.40
31	DA	2061	G	N3-C4-N9	7.62	130.57	126.00
31	BA	1620	G	C8-N9-C4	7.62	109.45	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	922	G	C8-N9-C4	-7.61	103.36	106.40
31	BA	1266	G	C8-N9-C4	7.60	109.44	106.40
31	BA	202	U	C6-N1-C2	7.60	125.56	121.00
31	BA	828	U	N3-C4-O4	-7.60	114.08	119.40
31	BA	2702	U	C5-C6-N1	-7.60	118.90	122.70
31	BA	2247	A	C2-N3-C4	-7.60	106.80	110.60
31	BA	1189	A	N1-C6-N6	7.58	123.15	118.60
31	BA	783	A	C2-N3-C4	-7.58	106.81	110.60
31	BA	1899	G	N3-C4-C5	7.57	132.39	128.60
31	DA	330	A	N9-C4-C5	-7.57	102.77	105.80
31	DA	1673	U	C5-C6-N1	-7.57	118.92	122.70
31	DA	2598	A	N9-C4-C5	-7.57	102.77	105.80
31	BA	1614	A	C4-C5-N7	7.57	114.48	110.70
31	BA	2232	U	C5-C6-N1	-7.56	118.92	122.70
31	BA	2067	G	N9-C4-C5	7.56	108.42	105.40
31	DA	1573	G	N7-C8-N9	-7.56	109.32	113.10
31	DA	2818	G	C8-N9-C4	7.56	109.42	106.40
31	DA	2394	C	C5-C6-N1	-7.55	117.22	121.00
31	BA	125	G	N1-C6-O6	7.55	124.43	119.90
31	DA	1617	C	C6-N1-C2	7.55	123.32	120.30
31	DA	2430	A	N1-C2-N3	7.55	133.07	129.30
31	BA	2083	G	C8-N9-C4	7.54	109.42	106.40
31	DA	2232	U	C5-C6-N1	-7.54	118.93	122.70
31	DA	783	A	C2-N3-C4	-7.54	106.83	110.60
31	DA	786	C	C6-N1-C2	7.54	123.31	120.30
1	CA	1524	C	C6-N1-C2	7.53	123.31	120.30
31	BA	739	G	N7-C8-N9	-7.53	109.33	113.10
31	BA	1616	A	C2-N3-C4	-7.52	106.84	110.60
31	DA	272	G	N3-C4-C5	-7.52	124.84	128.60
31	BA	679	C	N3-C2-O2	7.51	127.16	121.90
31	BA	2063	C	N3-C4-C5	-7.51	118.89	121.90
31	DA	2293	C	C6-N1-C2	7.51	123.31	120.30
31	BA	2485	G	N1-C6-O6	7.50	124.40	119.90
31	DA	611	C	C6-N1-C2	7.50	123.30	120.30
31	BA	589	C	N1-C2-O2	-7.50	114.40	118.90
31	BA	1558	A	C2-N3-C4	-7.48	106.86	110.60
41	BP	37	GLY	N-CA-C	7.48	131.81	113.10
31	BA	1616	A	N1-C6-N6	7.48	123.09	118.60
31	DA	498	G	C8-N9-C4	7.47	109.39	106.40
31	BA	512	G	C4-N9-C1'	-7.46	116.80	126.50
31	BA	272(D)	G	C8-N9-C4	7.46	109.39	106.40
31	BA	2531	A	C8-N9-C4	7.46	108.78	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1958	C	N1-C2-O2	-7.46	114.42	118.90
32	BB	85	G	N1-C6-O6	7.46	124.37	119.90
31	DA	1280	G	C8-N9-C4	7.45	109.38	106.40
31	BA	210	C	C6-N1-C2	7.45	123.28	120.30
31	BA	1614	A	C5-N7-C8	-7.45	100.18	103.90
31	DA	2430	A	C2-N3-C4	-7.44	106.88	110.60
31	DA	1323	U	N3-C2-O2	7.44	127.41	122.20
31	DA	2502	G	N1-C6-O6	7.44	124.36	119.90
31	BA	1820	U	C6-N1-C2	7.44	125.46	121.00
31	DA	1032	A	C8-N9-C4	7.44	108.78	105.80
31	DA	1820	U	C5-C6-N1	-7.43	118.98	122.70
31	BA	1142(A)	A	N3-C4-C5	7.43	132.00	126.80
31	BA	1678	G	C2-N3-C4	-7.43	108.19	111.90
31	BA	1790	C	C6-N1-C2	7.42	123.27	120.30
31	DA	1185	C	N1-C2-O2	-7.42	114.45	118.90
31	DA	566	U	C6-N1-C2	7.42	125.45	121.00
31	DA	1126	A	N7-C8-N9	-7.42	110.09	113.80
31	BA	675	A	C8-N9-C4	7.41	108.77	105.80
31	BA	1676	A	C8-N9-C4	7.41	108.77	105.80
31	DA	2502	G	C5-C6-O6	-7.41	124.15	128.60
31	DA	2731	G	N1-C6-O6	7.40	124.34	119.90
31	DA	577	G	C8-N9-C4	7.40	109.36	106.40
31	BA	1899	G	N3-C2-N2	-7.39	114.73	119.90
31	BA	2030	A	N1-C6-N6	7.38	123.03	118.60
31	BA	57	C	C6-N1-C2	7.38	123.25	120.30
31	BA	788	A	N1-C6-N6	7.37	123.02	118.60
31	DA	2713	A	N9-C4-C5	-7.37	102.85	105.80
31	BA	2283	C	N3-C2-O2	7.36	127.06	121.90
31	DA	1653	G	C4-N9-C1'	7.36	136.07	126.50
31	BA	828	U	C5-C4-O4	7.35	130.31	125.90
31	DA	678	C	N3-C4-C5	7.35	124.84	121.90
31	DA	376	C	C6-N1-C2	7.35	123.24	120.30
31	BA	1332	G	C8-N9-C1'	7.35	136.55	127.00
31	DA	2778	A	C2-N3-C4	-7.34	106.93	110.60
31	DA	783	A	C5-N7-C8	-7.34	100.23	103.90
31	BA	678	C	N3-C4-C5	7.33	124.83	121.90
31	BA	2021	C	C6-N1-C2	7.32	123.23	120.30
31	DA	1350	C	N1-C2-O2	-7.32	114.51	118.90
31	DA	203	C	C6-N1-C2	7.31	123.22	120.30
31	DA	450	G	N9-C4-C5	7.31	108.33	105.40
31	BA	2430	A	N1-C2-N3	7.31	132.96	129.30
31	DA	528	A	C2-N3-C4	-7.31	106.94	110.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	DP	37	GLY	N-CA-C	7.31	131.37	113.10
31	BA	1229	G	N3-C4-C5	7.31	132.25	128.60
1	CA	822	C	C6-N1-C2	7.31	123.22	120.30
31	DA	1557	C	C6-N1-C2	7.31	123.22	120.30
31	BA	624	C	C6-N1-C2	7.30	123.22	120.30
31	BA	2082	A	C8-N9-C4	7.30	108.72	105.80
31	DA	2059	A	C2-N3-C4	-7.30	106.95	110.60
31	BA	125	G	C5-C6-O6	-7.30	124.22	128.60
31	BA	1779	U	C4-C5-C6	7.30	124.08	119.70
31	BA	377	C	C6-N1-C2	7.29	123.22	120.30
1	AA	810	C	C6-N1-C2	7.29	123.22	120.30
31	DA	1216	G	N1-C6-O6	7.29	124.27	119.90
31	DA	1611	C	C6-N1-C2	7.29	123.21	120.30
31	BA	265	A	C2-N3-C4	-7.28	106.96	110.60
31	DA	2081	C	C6-N1-C2	7.28	123.21	120.30
31	BA	980	A	N1-C6-N6	7.28	122.97	118.60
1	CA	483	C	C6-N1-C2	7.26	123.20	120.30
31	BA	774	A	C8-N9-C4	-7.26	102.89	105.80
31	BA	1204	A	C5-C6-N1	-7.26	114.07	117.70
32	BB	6	C	C6-N1-C2	7.26	123.20	120.30
31	DA	2539	C	C6-N1-C2	7.26	123.20	120.30
31	DA	1790	C	C2-N3-C4	-7.25	116.27	119.90
31	DA	564	C	N1-C2-O2	-7.25	114.55	118.90
31	DA	2283	C	C6-N1-C2	7.25	123.20	120.30
31	BA	2589	A	C8-N9-C4	7.25	108.70	105.80
32	BB	101	G	C8-N9-C4	7.25	109.30	106.40
31	BA	673	C	C6-N1-C2	7.24	123.20	120.30
31	BA	844	C	C6-N1-C2	7.24	123.20	120.30
31	BA	2687	U	C6-N1-C2	7.24	125.34	121.00
31	DA	2324	C	C6-N1-C2	7.23	123.19	120.30
31	BA	455	C	C6-N1-C2	7.23	123.19	120.30
31	BA	1543	C	C6-N1-C1'	-7.22	112.13	120.80
31	DA	1210	A	C5-N7-C8	-7.22	100.29	103.90
31	BA	1323	U	N1-C2-O2	-7.22	117.75	122.80
31	DA	1784	A	N9-C4-C5	-7.21	102.91	105.80
31	BA	2253	G	C8-N9-C4	7.21	109.28	106.40
31	BA	142	A	C2-N3-C4	-7.21	106.99	110.60
31	BA	16	G	C2-N3-C4	-7.21	108.30	111.90
31	DA	2017	U	N1-C2-O2	-7.21	117.76	122.80
31	DA	2346	A	N1-C2-N3	7.20	132.90	129.30
31	BA	1638	C	C6-N1-C2	7.20	123.18	120.30
31	DA	2346	A	C5-C6-N1	-7.20	114.10	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	672	C	C4-C5-C6	7.20	121.00	117.40
31	BA	1698	A	C2-N3-C4	-7.19	107.00	110.60
31	DA	2326	C	N3-C4-C5	-7.19	119.03	121.90
31	BA	732	C	N1-C2-O2	-7.18	114.59	118.90
31	DA	2481	G	C8-N9-C4	7.17	109.27	106.40
31	DA	2522	U	C5-C6-N1	-7.17	119.11	122.70
31	DA	2000	G	N3-C4-C5	7.17	132.19	128.60
31	DA	2231	C	C5-C6-N1	-7.17	117.42	121.00
31	BA	2827	C	C6-N1-C2	7.16	123.17	120.30
31	DA	2376	A	N1-C6-N6	7.16	122.90	118.60
31	BA	217	G	C8-N9-C4	7.15	109.26	106.40
31	DA	577	G	N1-C6-O6	7.15	124.19	119.90
31	BA	1495	A	N7-C8-N9	7.15	117.38	113.80
31	DA	1241	A	N1-C6-N6	7.15	122.89	118.60
31	BA	1183	G	N1-C6-O6	7.14	124.19	119.90
31	BA	665	C	C6-N1-C2	7.14	123.16	120.30
31	DA	201	C	C5-C6-N1	-7.14	117.43	121.00
31	BA	2061	G	N1-C2-N2	-7.14	109.78	116.20
31	BA	2014	A	C4-C5-N7	7.13	114.26	110.70
31	DA	287	C	C6-N1-C2	7.13	123.15	120.30
31	DA	1698	A	N1-C6-N6	7.12	122.88	118.60
31	DA	1201	C	C5-C6-N1	-7.12	117.44	121.00
31	BA	679	C	C6-N1-C2	7.12	123.15	120.30
31	DA	1244	G	C8-N9-C4	7.12	109.25	106.40
31	DA	1998	G	N3-C4-C5	7.12	132.16	128.60
31	BA	1992	G	N3-C4-C5	-7.12	125.04	128.60
31	BA	2610	C	C6-N1-C2	7.12	123.15	120.30
31	DA	131	G	C8-N9-C4	7.12	109.25	106.40
31	DA	1678	G	C6-C5-N7	-7.12	126.13	130.40
31	BA	729	G	N3-C2-N2	-7.11	114.92	119.90
31	DA	739	G	N7-C8-N9	-7.11	109.54	113.10
31	BA	2023	G	N3-C2-N2	-7.11	114.92	119.90
32	BB	103	G	C8-N9-C4	7.10	109.24	106.40
31	DA	2392	A	C2-N3-C4	-7.10	107.05	110.60
31	DA	1204	A	C4-C5-N7	7.10	114.25	110.70
31	BA	602	G	N1-C6-O6	7.10	124.16	119.90
31	DA	2329	G	N7-C8-N9	-7.10	109.55	113.10
31	DA	2014	A	C8-N9-C4	7.10	108.64	105.80
31	DA	2446	G	C8-N9-C4	7.09	109.24	106.40
31	BA	528	A	N3-C4-C5	7.09	131.76	126.80
31	BA	2061	G	C6-N1-C2	-7.08	120.85	125.10
31	BA	945	A	C2-N3-C4	-7.08	107.06	110.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	2030	A	C5-C6-N6	-7.08	118.03	123.70
31	BA	2014	A	C5-C6-N6	-7.08	118.04	123.70
31	DA	1597	A	N7-C8-N9	-7.08	110.26	113.80
31	DA	2469	A	C8-N9-C4	-7.08	102.97	105.80
31	BA	933	A	C5-N7-C8	-7.08	100.36	103.90
31	DA	1671	U	C5-C4-O4	-7.07	121.66	125.90
31	DA	797	C	C6-N1-C2	7.07	123.13	120.30
31	BA	527	C	N3-C4-N4	-7.06	113.06	118.00
1	AA	893	C	C6-N1-C2	7.06	123.12	120.30
31	BA	728	G	C8-N9-C4	7.06	109.22	106.40
31	BA	2742	C	C6-N1-C2	7.06	123.12	120.30
31	BA	37	C	C6-N1-C2	7.05	123.12	120.30
31	BA	2364	C	C6-N1-C2	7.05	123.12	120.30
31	DA	1758	G	N3-C4-C5	7.05	132.13	128.60
31	BA	2700	C	C6-N1-C2	7.05	123.12	120.30
1	AA	320	C	C6-N1-C2	7.04	123.12	120.30
31	DA	1698	A	C5-N7-C8	-7.04	100.38	103.90
31	DA	512	G	C8-N9-C4	7.04	109.22	106.40
31	BA	1022	G	N9-C4-C5	7.04	108.21	105.40
31	BA	2672	G	C4-C5-N7	7.04	113.61	110.80
31	DA	659	C	C6-N1-C2	7.04	123.11	120.30
31	BA	530	G	N1-C6-O6	-7.03	115.68	119.90
31	BA	783	A	C6-C5-N7	-7.03	127.38	132.30
31	BA	15	G	N3-C2-N2	-7.03	114.98	119.90
31	BA	1397	U	C6-N1-C2	-7.03	116.78	121.00
31	DA	2387	U	C5-C6-N1	-7.02	119.19	122.70
31	BA	786	C	C5-C6-N1	-7.02	117.49	121.00
31	BA	970	C	C5-C6-N1	-7.02	117.49	121.00
1	CA	117	G	N1-C6-O6	7.02	124.11	119.90
31	DA	948	G	C2-N3-C4	-7.01	108.39	111.90
31	BA	208	C	N3-C4-C5	7.01	124.70	121.90
31	DA	786	C	N3-C4-C5	7.01	124.70	121.90
31	BA	1204	A	C4-C5-C6	7.01	120.50	117.00
31	BA	2447	G	C3'-C2'-C1'	-7.01	95.89	101.50
31	BA	774	A	N1-C6-N6	7.00	122.80	118.60
31	BA	2676	C	C2-N3-C4	-7.00	116.40	119.90
1	AA	117	G	N1-C6-O6	7.00	124.10	119.90
31	BA	210	C	C5-C6-N1	-6.99	117.50	121.00
31	BA	2497	A	C8-N9-C4	6.99	108.60	105.80
31	BA	203	C	N1-C2-O2	-6.99	114.71	118.90
31	DA	1779	U	C2-N3-C4	-6.99	122.81	127.00
31	DA	562	U	C5-C4-O4	-6.99	121.71	125.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2497	A	N9-C4-C5	-6.98	103.01	105.80
1	AA	892	A	N1-C6-N6	6.98	122.79	118.60
31	DA	672	C	C5-C6-N1	-6.98	117.51	121.00
31	BA	1614	A	N1-C6-N6	6.97	122.78	118.60
31	BA	1653	G	C8-N9-C1'	-6.97	117.93	127.00
31	DA	1596	A	C8-N9-C4	6.97	108.59	105.80
31	DA	1758	G	N3-C4-N9	-6.97	121.82	126.00
31	DA	1698	A	C4-C5-N7	6.97	114.19	110.70
31	BA	1379	A	O4'-C1'-N9	6.97	113.77	108.20
31	BA	2282	G	N3-C4-C5	-6.96	125.12	128.60
31	BA	2054	A	C2-N3-C4	-6.96	107.12	110.60
31	DA	62	C	C6-N1-C2	6.96	123.08	120.30
31	BA	2518	A	C8-N9-C4	-6.95	103.02	105.80
1	CA	910	C	N1-C2-O2	-6.95	114.73	118.90
31	DA	2594	C	N1-C2-O2	-6.95	114.73	118.90
31	DA	673	C	C5-C6-N1	-6.95	117.53	121.00
31	BA	1519	G	C8-N9-C4	-6.95	103.62	106.40
31	DA	184	C	C6-N1-C2	6.94	123.08	120.30
31	BA	201	C	C2-N1-C1'	-6.94	111.17	118.80
31	DA	870	A	C8-N9-C4	6.94	108.58	105.80
31	DA	2042	A	N9-C4-C5	-6.94	103.03	105.80
31	BA	676	A	N1-C2-N3	6.93	132.77	129.30
31	BA	2481	G	C8-N9-C4	6.93	109.17	106.40
31	BA	16	G	N1-C6-O6	6.93	124.06	119.90
31	BA	1495	A	C6-C5-N7	-6.92	127.45	132.30
31	DA	514	A	C8-N9-C4	6.92	108.57	105.80
31	DA	1403	C	C2-N1-C1'	-6.92	111.19	118.80
32	BB	48	A	C8-N9-C4	6.92	108.57	105.80
31	DA	1570	A	C8-N9-C4	6.92	108.57	105.80
31	BA	1403	C	C2-N1-C1'	-6.92	111.19	118.80
31	BA	207	A	N1-C6-N6	6.92	122.75	118.60
31	DA	2424	C	C5-C6-N1	-6.92	117.54	121.00
31	DA	84	A	C8-N9-C4	6.91	108.56	105.80
1	AA	358	U	C6-N1-C2	-6.91	116.85	121.00
31	BA	2345	G	C5-C6-O6	6.91	132.75	128.60
31	BA	133	C	N1-C2-O2	-6.91	114.76	118.90
31	BA	865	C	C6-N1-C2	6.91	123.06	120.30
1	CA	1469	G	N1-C6-O6	6.91	124.04	119.90
31	DA	2563	U	C5-C6-N1	-6.91	119.25	122.70
31	BA	678	C	C2-N3-C4	-6.90	116.45	119.90
31	BA	727	A	C8-N9-C4	6.90	108.56	105.80
32	BB	37	C	C5-C6-N1	6.90	124.45	121.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	859	G	N3-C4-N9	-6.90	121.86	126.00
31	DA	130	C	C2-N3-C4	-6.90	116.45	119.90
31	BA	1270	C	C5-C6-N1	-6.89	117.55	121.00
31	BA	451	C	N1-C2-O2	-6.89	114.77	118.90
31	BA	1203	G	C8-N9-C4	-6.89	103.64	106.40
31	DA	774	A	C5-N7-C8	-6.89	100.46	103.90
31	DA	1543	C	C6-N1-C1'	-6.89	112.54	120.80
31	BA	522	G	C5-C6-O6	-6.88	124.47	128.60
31	BA	991	C	C5-C6-N1	-6.88	117.56	121.00
31	BA	1658	C	N3-C2-O2	6.88	126.72	121.90
31	DA	1243	G	C8-N9-C4	6.88	109.15	106.40
31	BA	1899	G	C2-N3-C4	-6.88	108.46	111.90
28	B6	11	LEU	CA-CB-CG	6.88	131.12	115.30
31	BA	2843	G	N1-C6-O6	6.88	124.03	119.90
32	BB	17	C	C6-N1-C2	-6.88	117.55	120.30
31	BA	2056	G	N1-C6-O6	6.87	124.02	119.90
31	BA	471	A	C2-N3-C4	-6.87	107.17	110.60
31	BA	448	U	N3-C4-C5	-6.87	110.48	114.60
31	BA	1006	C	C6-N1-C2	6.87	123.05	120.30
31	BA	1830	C	C6-N1-C2	6.87	123.05	120.30
31	DA	1950	G	C5-C6-N1	-6.87	108.07	111.50
31	DA	2058	A	C5-C6-N6	-6.87	118.21	123.70
31	BA	215	G	C2-N3-C4	-6.86	108.47	111.90
31	DA	1131	G	C8-N9-C4	6.86	109.14	106.40
31	BA	1266	G	N3-C4-C5	6.86	132.03	128.60
31	BA	735	A	C8-N9-C4	6.86	108.54	105.80
31	BA	2544	G	C6-C5-N7	-6.86	126.29	130.40
31	BA	774	A	C4-C5-N7	6.86	114.13	110.70
31	BA	2684	U	C5-C6-N1	-6.86	119.27	122.70
31	DA	376	C	C2-N1-C1'	-6.85	111.26	118.80
31	DA	1570	A	N1-C6-N6	6.85	122.71	118.60
31	DA	2488	A	N7-C8-N9	-6.85	110.38	113.80
1	CA	910	C	N3-C2-O2	6.84	126.69	121.90
31	DA	584	C	C6-N1-C2	6.84	123.04	120.30
31	DA	1902	C	N3-C4-C5	6.84	124.64	121.90
31	DA	1820	U	C6-N1-C2	6.84	125.10	121.00
31	BA	562	U	N3-C2-O2	6.83	126.98	122.20
31	DA	2501	C	C2-N1-C1'	-6.83	111.28	118.80
31	BA	1653	G	N3-C4-C5	-6.83	125.19	128.60
1	CA	894	G	C8-N9-C4	6.83	109.13	106.40
31	DA	2040	C	C6-N1-C2	6.83	123.03	120.30
31	DA	574	C	C2-N1-C1'	-6.82	111.29	118.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	2028	U	N1-C2-O2	-6.82	118.03	122.80
32	BB	17	C	N3-C2-O2	-6.82	117.13	121.90
31	DA	2383	G	C8-N9-C1'	-6.82	118.14	127.00
31	BA	2239	G	N1-C6-O6	-6.81	115.81	119.90
31	BA	1253	A	N9-C4-C5	-6.81	103.08	105.80
31	BA	2246	G	N1-C6-O6	6.80	123.98	119.90
31	BA	1397	U	N3-C2-O2	-6.80	117.44	122.20
31	BA	1295	C	C6-N1-C2	6.79	123.02	120.30
31	DA	2058	A	N1-C6-N6	6.79	122.67	118.60
31	BA	378	C	C6-N1-C2	6.79	123.01	120.30
31	DA	2684	U	C6-N1-C2	6.78	125.07	121.00
31	BA	2502	G	C4-C5-N7	6.78	113.51	110.80
31	DA	814	C	C6-N1-C2	6.78	123.01	120.30
31	BA	15	G	N1-C6-O6	6.78	123.97	119.90
31	BA	1662	C	N1-C2-O2	-6.78	114.83	118.90
31	DA	409	C	C6-N1-C2	6.78	123.01	120.30
31	DA	1332	G	C8-N9-C1'	6.78	135.81	127.00
31	DA	1124	C	C6-N1-C2	6.77	123.01	120.30
31	DA	2292	C	C6-N1-C2	6.77	123.01	120.30
31	BA	420	C	C5-C6-N1	-6.77	117.62	121.00
31	BA	450	G	N9-C4-C5	6.77	108.11	105.40
31	BA	2699	C	C5-C6-N1	-6.77	117.62	121.00
31	DA	1304	C	C6-N1-C2	6.77	123.01	120.30
31	BA	2461	C	C5-C6-N1	-6.76	117.62	121.00
31	BA	984	A	C8-N9-C4	6.76	108.50	105.80
31	BA	1544	A	O4'-C1'-N9	6.76	113.61	108.20
31	DA	2430	A	C4-C5-C6	6.76	120.38	117.00
31	BA	2850	A	C8-N9-C4	6.76	108.50	105.80
31	DA	2091	U	C5-C6-N1	-6.76	119.32	122.70
31	DA	912	C	C6-N1-C2	-6.75	117.60	120.30
31	DA	1384	A	N1-C6-N6	-6.75	114.55	118.60
31	BA	1269	A	C8-N9-C4	6.75	108.50	105.80
31	BA	530	G	N3-C2-N2	6.75	124.62	119.90
31	BA	1333	C	C6-N1-C2	6.75	123.00	120.30
31	DA	2741	A	C8-N9-C4	6.75	108.50	105.80
31	DA	2579	C	N3-C2-O2	6.74	126.62	121.90
31	BA	1029	A	N1-C6-N6	6.74	122.64	118.60
31	BA	1495	A	C4-C5-N7	6.74	114.07	110.70
31	BA	2442	C	N1-C2-O2	-6.74	114.86	118.90
31	BA	2672	G	C5-C6-O6	-6.74	124.56	128.60
31	DA	206	U	C5-C6-N1	-6.74	119.33	122.70
31	DA	2684	U	C5-C6-N1	-6.74	119.33	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1326	U	C6-N1-C2	6.74	125.04	121.00
31	DA	1005	C	C6-N1-C2	6.74	122.99	120.30
31	BA	671	C	C4-C5-C6	6.73	120.77	117.40
31	BA	1201	C	N3-C2-O2	6.73	126.61	121.90
31	BA	2476	A	C2-N3-C4	6.73	113.97	110.60
31	DA	330	A	C4-C5-N7	6.73	114.06	110.70
31	BA	1142(A)	A	C5-N7-C8	-6.72	100.54	103.90
31	BA	2568	C	C6-N1-C2	6.72	122.99	120.30
1	CA	400	C	C6-N1-C2	6.72	122.99	120.30
31	BA	848	G	C8-N9-C1'	-6.72	118.26	127.00
31	DA	207	A	C8-N9-C4	6.72	108.49	105.80
31	DA	1204	A	C5-N7-C8	-6.72	100.54	103.90
31	DA	1779	U	C4-C5-C6	6.72	123.73	119.70
31	BA	2841	C	C6-N1-C2	6.72	122.99	120.30
1	CA	923	A	C3'-C2'-C1'	6.72	106.87	101.50
31	DA	1967	C	C6-N1-C2	6.71	122.99	120.30
31	DA	2796	U	O4'-C1'-N1	6.71	113.57	108.20
31	BA	1204	A	C4-N9-C1'	6.71	138.38	126.30
31	DA	1899	G	C2-N3-C4	-6.71	108.55	111.90
31	BA	796	C	N3-C2-O2	6.71	126.60	121.90
31	BA	2477	C	N3-C4-C5	-6.71	119.22	121.90
31	DA	192	C	C6-N1-C2	6.71	122.98	120.30
31	DA	683	C	C2-N3-C4	-6.71	116.55	119.90
31	BA	141	A	C4-C5-N7	6.70	114.05	110.70
31	BA	810	U	C6-N1-C2	6.70	125.02	121.00
31	BA	2518	A	C4-C5-N7	6.69	114.05	110.70
31	BA	2196	C	C6-N1-C2	6.69	122.98	120.30
31	DA	676	A	C8-N9-C4	-6.69	103.12	105.80
31	DA	142	A	N1-C6-N6	6.69	122.61	118.60
31	BA	1439	A	C8-N9-C4	6.69	108.47	105.80
31	BA	1496	A	N7-C8-N9	6.69	117.14	113.80
31	DA	679	C	C2-N1-C1'	-6.69	111.44	118.80
31	DA	1204	A	C2-N3-C4	-6.68	107.26	110.60
31	BA	205	G	N9-C4-C5	-6.68	102.73	105.40
31	DA	2061	G	N9-C4-C5	-6.68	102.73	105.40
31	BA	1270	C	C6-N1-C2	6.68	122.97	120.30
31	BA	2053	G	N1-C6-O6	6.68	123.91	119.90
31	DA	611	C	C5-C6-N1	-6.68	117.66	121.00
31	BA	600	G	C8-N9-C4	6.67	109.07	106.40
31	BA	1332	G	C5-N7-C8	-6.67	100.96	104.30
31	BA	2362	G	C8-N9-C4	6.67	109.07	106.40
31	DA	1800	C	C6-N1-C2	6.67	122.97	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	686	G	C6-C5-N7	-6.67	126.40	130.40
31	DA	2008	C	C5-C6-N1	-6.67	117.67	121.00
31	BA	491	G	N3-C4-N9	-6.66	122.00	126.00
31	DA	847	U	N3-C4-O4	-6.66	114.74	119.40
31	DA	1798	U	C5-C6-N1	-6.66	119.37	122.70
31	BA	123	G	C8-N9-C4	6.66	109.06	106.40
31	DA	1332	G	N1-C6-O6	6.66	123.89	119.90
31	DA	663	G	N3-C4-N9	-6.66	122.01	126.00
31	BA	207	A	C2-N3-C4	-6.65	107.27	110.60
31	BA	2430	A	C4-C5-C6	6.65	120.33	117.00
31	DA	2572	A	C8-N9-C4	6.65	108.46	105.80
31	DA	2376	A	N9-C4-C5	-6.65	103.14	105.80
31	BA	1765	C	N1-C2-O2	-6.65	114.91	118.90
31	BA	774	A	C6-C5-N7	-6.65	127.65	132.30
31	DA	1589	C	C6-N1-C1'	6.65	128.78	120.80
31	BA	2796	U	O4'-C1'-N1	6.65	113.52	108.20
41	BP	53	GLY	N-CA-C	-6.64	96.49	113.10
31	DA	676	A	C4-C5-N7	6.64	114.02	110.70
31	DA	577	G	C2-N3-C4	-6.64	108.58	111.90
31	BA	2772	C	C6-N1-C2	6.64	122.95	120.30
31	DA	506	G	N1-C6-O6	6.64	123.88	119.90
31	BA	189	G	C8-N9-C4	6.63	109.05	106.40
31	BA	1800	C	N1-C2-O2	-6.63	114.92	118.90
31	DA	1974	C	N3-C2-O2	6.63	126.54	121.90
31	BA	2779	U	N3-C4-O4	-6.63	114.76	119.40
31	DA	1021	A	N1-C6-N6	6.63	122.58	118.60
31	DA	2394	C	C2-N3-C4	-6.63	116.58	119.90
31	BA	2779	U	C2-N3-C4	-6.63	123.02	127.00
31	DA	1528	A	N7-C8-N9	6.63	117.12	113.80
31	DA	1543	C	C5-C4-N4	-6.63	115.56	120.20
31	BA	201	C	C5-C6-N1	-6.63	117.69	121.00
31	BA	62	C	C6-N1-C2	6.63	122.95	120.30
31	BA	679	C	C2-N3-C4	-6.62	116.59	119.90
31	DA	1544	A	O4'-C1'-N9	6.62	113.50	108.20
31	DA	1953	A	C8-N9-C4	6.62	108.45	105.80
31	DA	2555	U	N1-C2-O2	-6.62	118.16	122.80
31	DA	1564	C	C6-N1-C2	6.62	122.95	120.30
31	BA	1678	G	C6-C5-N7	-6.62	126.43	130.40
31	BA	2622	C	C6-N1-C2	6.62	122.95	120.30
31	BA	1241	A	C5-C6-N1	-6.61	114.39	117.70
31	DA	586	A	C8-N9-C4	6.61	108.44	105.80
31	BA	204	A	C6-N1-C2	-6.61	114.63	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	263	C	C6-N1-C2	6.61	122.94	120.30
1	CA	1473	A	C8-N9-C4	6.61	108.44	105.80
31	BA	562	U	N1-C2-O2	-6.61	118.17	122.80
31	DA	2485	G	N9-C4-C5	-6.61	102.76	105.40
31	BA	2471	C	C2-N1-C1'	6.61	126.07	118.80
31	DA	1021	A	C5-N7-C8	-6.61	100.60	103.90
32	DB	104	U	C5-C6-N1	-6.61	119.40	122.70
31	BA	2287	A	C2-N3-C4	-6.61	107.30	110.60
31	DA	647	G	C8-N9-C4	-6.60	103.76	106.40
31	DA	195	A	N1-C6-N6	6.60	122.56	118.60
31	DA	811	U	C5-C4-O4	6.60	129.86	125.90
31	DA	1678	G	C5-N7-C8	-6.60	101.00	104.30
31	BA	817	C	N1-C2-O2	-6.60	114.94	118.90
31	BA	2711	A	N3-C4-C5	6.60	131.42	126.80
31	BA	2598	A	N9-C4-C5	-6.59	103.16	105.80
31	BA	2013	A	C2-N3-C4	-6.59	107.31	110.60
31	DA	1315	C	C2-N3-C4	-6.59	116.61	119.90
31	BA	512	G	C8-N9-C1'	6.59	135.56	127.00
31	BA	1184	G	N1-C6-O6	6.59	123.85	119.90
31	BA	927	G	C5-C6-O6	-6.58	124.65	128.60
31	DA	1328	G	N3-C4-N9	6.58	129.95	126.00
31	DA	1379	A	O4'-C1'-N9	6.58	113.46	108.20
31	DA	2579	C	N1-C2-O2	-6.58	114.95	118.90
31	BA	1897	G	C5-C6-O6	-6.57	124.66	128.60
31	BA	1204	A	N1-C2-N3	6.57	132.58	129.30
31	BA	2430	A	N1-C6-N6	6.56	122.54	118.60
31	BA	2512	C	C6-N1-C2	6.56	122.93	120.30
31	BA	125	G	C4-C5-N7	6.56	113.42	110.80
31	BA	1275	A	N9-C4-C5	-6.56	103.17	105.80
31	DA	803	U	N1-C2-O2	-6.56	118.21	122.80
31	DA	2043	C	N3-C4-C5	6.56	124.53	121.90
31	DA	2731	G	C5-C6-O6	-6.56	124.67	128.60
31	BA	2498	C	N1-C2-O2	-6.55	114.97	118.90
33	BD	243	GLY	N-CA-C	-6.55	96.72	113.10
31	DA	514	A	N7-C8-N9	-6.54	110.53	113.80
31	DA	141	A	C5-N7-C8	-6.54	100.63	103.90
31	DA	865	C	C6-N1-C2	6.54	122.92	120.30
31	DA	1653	G	C8-N9-C1'	-6.54	118.50	127.00
31	DA	2497	A	C8-N9-C4	6.54	108.42	105.80
31	DA	1167	U	C6-N1-C2	6.54	124.92	121.00
31	BA	1233	C	C6-N1-C2	6.53	122.91	120.30
31	DA	1243	G	N7-C8-N9	-6.53	109.83	113.10

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1597	A	C8-N9-C4	6.53	108.41	105.80
31	BA	2688	U	C5-C6-N1	-6.53	119.44	122.70
31	DA	465	G	C4-C5-N7	-6.53	108.19	110.80
31	DA	1332	G	C4-C5-N7	6.53	113.41	110.80
31	DA	1615	C	C6-N1-C2	6.53	122.91	120.30
31	DA	2000	G	C4-N9-C1'	-6.52	118.02	126.50
31	BA	151	C	C6-N1-C2	6.52	122.91	120.30
31	BA	870	A	C8-N9-C4	6.51	108.41	105.80
31	DA	676	A	C2-N3-C4	-6.51	107.34	110.60
31	BA	203	C	C5-C6-N1	-6.51	117.74	121.00
31	BA	2087	G	C8-N9-C4	6.51	109.00	106.40
31	BA	2575	C	C5-C6-N1	-6.51	117.75	121.00
31	DA	1021	A	C6-C5-N7	-6.50	127.75	132.30
31	BA	937	U	N1-C2-O2	-6.50	118.25	122.80
31	BA	1308	A	C2-N3-C4	-6.50	107.35	110.60
31	BA	1934	C	N1-C2-O2	6.50	122.80	118.90
31	DA	1543	C	C2-N1-C1'	6.50	125.95	118.80
31	BA	679	C	N3-C4-C5	6.50	124.50	121.90
27	B5	51	TYR	CA-CB-CG	6.50	125.74	113.40
31	DA	1934	C	C6-N1-C2	6.49	122.90	120.30
31	DA	1328	G	C8-N9-C1'	-6.49	118.56	127.00
31	BA	103	A	C8-N9-C4	6.49	108.39	105.80
31	BA	948	G	N3-C4-C5	6.49	131.84	128.60
31	BA	1021	A	N1-C2-N3	6.49	132.54	129.30
31	DA	1790	C	N1-C2-O2	-6.49	115.01	118.90
31	DA	2053	G	C5-C6-O6	-6.49	124.71	128.60
31	BA	1219	G	C8-N9-C4	6.48	108.99	106.40
31	BA	1229	G	C8-N9-C4	6.48	108.99	106.40
31	BA	2436	G	N3-C2-N2	-6.48	115.36	119.90
31	DA	2584	U	C5-C4-O4	6.48	129.79	125.90
31	DA	859	G	N3-C4-N9	-6.48	122.11	126.00
31	BA	1565	C	C6-N1-C2	6.47	122.89	120.30
31	BA	522	G	N1-C6-O6	6.47	123.78	119.90
31	BA	1617	C	N1-C2-O2	-6.47	115.02	118.90
31	BA	130	C	C5-C6-N1	-6.47	117.77	121.00
31	BA	1657	C	C5-C6-N1	-6.46	117.77	121.00
31	BA	1159	U	C6-N1-C2	6.46	124.88	121.00
31	BA	1677	A	C8-N9-C4	6.46	108.38	105.80
31	DA	210	C	N3-C4-C5	6.46	124.48	121.90
31	DA	2056	G	N9-C4-C5	-6.46	102.82	105.40
31	BA	29	U	C5-C4-O4	-6.46	122.03	125.90
31	DA	803	U	C5-C6-N1	-6.46	119.47	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	2539	C	N3-C4-C5	6.46	124.48	121.90
31	BA	759	G	C8-N9-C4	6.46	108.98	106.40
31	BA	829	A	C8-N9-C4	6.46	108.38	105.80
31	BA	2822	G	C5-C6-O6	-6.45	124.73	128.60
31	DA	1310	G	C5-C6-O6	-6.45	124.73	128.60
31	BA	2825	C	C6-N1-C2	6.45	122.88	120.30
31	DA	1762	A	C8-N9-C4	-6.45	103.22	105.80
31	BA	1403	C	C5-C6-N1	-6.44	117.78	121.00
31	BA	330	A	N3-C4-C5	6.44	131.31	126.80
31	DA	142	A	C5-N7-C8	-6.44	100.68	103.90
31	BA	2762	G	N3-C4-C5	6.44	131.82	128.60
31	BA	784	A	N1-C6-N6	-6.43	114.74	118.60
31	DA	2056	G	C5-C6-O6	-6.43	124.74	128.60
31	BA	723	G	C8-N9-C4	6.43	108.97	106.40
31	DA	1397	U	N3-C2-O2	-6.43	117.70	122.20
31	DA	1779	U	N3-C4-O4	-6.42	114.90	119.40
31	DA	1795	C	C6-N1-C2	6.42	122.87	120.30
31	BA	845	G	C4-C5-N7	6.42	113.37	110.80
31	DA	2496	C	C6-N1-C2	6.42	122.87	120.30
31	BA	2485	G	C6-C5-N7	-6.42	126.55	130.40
32	BB	104	U	C6-N1-C2	6.42	124.85	121.00
31	DA	142	A	C4-C5-N7	6.42	113.91	110.70
31	DA	1772	G	N7-C8-N9	-6.42	109.89	113.10
31	DA	2518	A	N7-C8-N9	6.42	117.01	113.80
1	AA	237	C	C6-N1-C2	6.41	122.86	120.30
31	DA	330	A	N3-C4-C5	6.41	131.29	126.80
31	DA	1557	C	N3-C2-O2	6.41	126.39	121.90
31	DA	1006	C	N3-C4-C5	6.41	124.47	121.90
31	BA	753	C	N1-C2-O2	-6.41	115.05	118.90
31	BA	1256	G	C8-N9-C1'	-6.41	118.67	127.00
31	BA	2713	A	C4-C5-N7	6.41	113.90	110.70
31	DA	2260	C	N1-C2-O2	-6.41	115.05	118.90
31	BA	2383	G	C4-N9-C1'	6.41	134.83	126.50
31	DA	452	G	N1-C6-O6	-6.41	116.06	119.90
1	CA	923	A	N7-C8-N9	6.40	117.00	113.80
31	BA	142	A	N7-C8-N9	6.40	117.00	113.80
31	DA	748	G	C4-N9-C1'	-6.40	118.18	126.50
31	BA	945	A	C4-C5-C6	6.40	120.20	117.00
31	BA	1022	G	C8-N9-C4	-6.40	103.84	106.40
1	AA	1412	C	C6-N1-C2	6.40	122.86	120.30
31	BA	1332	G	C4-N9-C1'	-6.40	118.18	126.50
31	BA	1574	C	C6-N1-C2	6.39	122.86	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	34	C	C6-N1-C2	6.39	122.86	120.30
31	DA	2361	A	N1-C6-N6	6.39	122.44	118.60
31	BA	752	A	C8-N9-C4	-6.39	103.24	105.80
31	BA	1379	A	N9-C1'-C2'	6.39	122.31	114.00
31	BA	2061	G	N3-C4-C5	-6.39	125.41	128.60
31	DA	927	G	C5-C6-O6	-6.39	124.77	128.60
31	BA	859	G	N3-C4-C5	6.39	131.79	128.60
31	BA	805	G	C4-C5-N7	6.39	113.35	110.80
31	DA	673	C	C6-N1-C2	6.39	122.86	120.30
31	DA	2570	G	C5-C6-N1	-6.39	108.31	111.50
31	BA	2648	C	C6-N1-C2	6.38	122.85	120.30
31	BA	1251	C	C2-N3-C4	-6.38	116.71	119.90
31	BA	1786	A	C2-N3-C4	-6.38	107.41	110.60
31	BA	587	C	C6-N1-C2	-6.38	117.75	120.30
31	BA	1786	A	C5-N7-C8	-6.38	100.71	103.90
1	AA	117	G	C5-C6-O6	-6.38	124.77	128.60
31	DA	1570	A	N9-C4-C5	-6.38	103.25	105.80
31	DA	2420	C	C6-N1-C2	6.37	122.85	120.30
31	BA	376	C	C2-N1-C1'	-6.37	111.79	118.80
31	BA	927	G	C4-C5-N7	6.37	113.35	110.80
31	BA	2253	G	C4-C5-N7	6.37	113.35	110.80
31	BA	2740	A	C8-N9-C4	6.37	108.35	105.80
31	BA	2777	G	N1-C6-O6	6.37	123.72	119.90
31	BA	2082	A	N7-C8-N9	-6.37	110.62	113.80
32	BB	103	G	N3-C4-N9	-6.37	122.18	126.00
31	DA	1354	A	C8-N9-C4	6.36	108.35	105.80
31	DA	205	G	C5-C6-O6	-6.36	124.78	128.60
31	DA	1519	G	C8-N9-C4	-6.36	103.86	106.40
31	BA	1219	G	N3-C4-C5	6.36	131.78	128.60
31	BA	1784	A	C8-N9-C4	6.36	108.34	105.80
31	BA	803	U	C5-C6-N1	-6.35	119.52	122.70
32	BB	87	G	C8-N9-C4	6.35	108.94	106.40
28	D6	11	LEU	CA-CB-CG	6.35	129.91	115.30
31	DA	2006	C	N3-C4-C5	6.35	124.44	121.90
31	BA	2469	A	C6-C5-N7	-6.35	127.86	132.30
31	BA	1233	C	C5-C6-N1	-6.35	117.83	121.00
31	BA	1543	C	N1-C2-N3	-6.35	114.76	119.20
31	DA	2737	G	N1-C6-O6	6.34	123.71	119.90
31	DA	1379	A	N9-C1'-C2'	6.34	122.25	114.00
31	BA	2061	G	N3-C4-N9	6.34	129.80	126.00
32	BB	64	C	C6-N1-C2	6.34	122.84	120.30
31	DA	664	C	C5-C6-N1	-6.34	117.83	121.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	2678	C	C5-C6-N1	-6.34	117.83	121.00
31	BA	16	G	N3-C2-N2	-6.34	115.46	119.90
31	BA	850	C	C6-N1-C2	6.34	122.83	120.30
31	BA	1241	A	N1-C6-N6	6.34	122.40	118.60
31	BA	2710	C	C5-C6-N1	-6.34	117.83	121.00
31	BA	2683	C	N3-C4-C5	-6.33	119.37	121.90
31	DA	1275	A	N1-C6-N6	6.33	122.40	118.60
31	DA	2547	U	C5-C6-N1	-6.33	119.53	122.70
32	BB	85	G	C6-C5-N7	-6.33	126.60	130.40
31	BA	2054	A	N1-C2-N3	6.33	132.47	129.30
31	BA	2481	G	N9-C4-C5	-6.33	102.87	105.40
31	DA	2580	U	C5-C6-N1	-6.33	119.53	122.70
31	DA	2827	C	C2-N3-C4	-6.33	116.73	119.90
31	DA	1380	G	C2-N3-C4	-6.33	108.73	111.90
32	BB	103	G	N7-C8-N9	-6.33	109.94	113.10
31	DA	683	C	C6-N1-C2	6.33	122.83	120.30
31	BA	680	G	N3-C2-N2	-6.32	115.47	119.90
31	DA	1226	A	C8-N9-C4	6.32	108.33	105.80
31	DA	832	G	C2-N3-C4	-6.32	108.74	111.90
31	BA	35	G	C8-N9-C4	6.32	108.93	106.40
31	BA	1786	A	C6-C5-N7	-6.32	127.88	132.30
31	DA	2082	A	C8-N9-C4	6.32	108.33	105.80
31	DA	2771	C	C6-N1-C2	6.32	122.83	120.30
31	BA	1495	A	C5-N7-C8	-6.32	100.74	103.90
31	BA	2056	G	C4-C5-N7	6.31	113.33	110.80
31	BA	142	A	C5-C6-N6	-6.31	118.65	123.70
31	BA	2452	C	C6-N1-C2	6.31	122.82	120.30
31	DA	210	C	C6-N1-C2	6.31	122.82	120.30
31	BA	2447	G	C5-N7-C8	6.31	107.45	104.30
31	BA	244	A	N1-C6-N6	6.31	122.38	118.60
31	BA	2421	G	N1-C6-O6	6.31	123.68	119.90
31	BA	1275	A	C5-C6-N6	-6.30	118.66	123.70
31	BA	296	C	C6-N1-C2	6.30	122.82	120.30
31	BA	2067	G	C8-N9-C4	-6.30	103.88	106.40
31	DA	810	U	C5-C6-N1	-6.30	119.55	122.70
31	DA	1280	G	N7-C8-N9	-6.30	109.95	113.10
31	BA	798	G	C2-N3-C4	-6.30	108.75	111.90
31	DA	1589	C	C2-N1-C1'	-6.30	111.87	118.80
31	DA	2286	A	O4'-C1'-N9	6.30	113.24	108.20
31	BA	2579	C	C6-N1-C2	6.29	122.82	120.30
31	DA	1758	G	C2-N3-C4	-6.29	108.75	111.90
31	BA	1576	U	C5-C6-N1	-6.29	119.55	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	201	C	C2-N1-C1'	-6.29	111.88	118.80
31	DA	1557	C	N1-C2-O2	-6.29	115.13	118.90
31	DA	1899	G	N3-C2-N2	-6.29	115.50	119.90
31	BA	2324	C	C6-N1-C2	6.29	122.81	120.30
31	BA	141	A	C8-N9-C4	-6.28	103.29	105.80
31	BA	1313	U	N3-C4-C5	-6.28	110.83	114.60
31	BA	2572	A	C8-N9-C4	6.28	108.31	105.80
31	DA	2260	C	C5-C6-N1	-6.28	117.86	121.00
31	BA	686	G	C2-N3-C4	-6.28	108.76	111.90
31	DA	461	C	N1-C2-O2	-6.28	115.13	118.90
32	DB	17	C	N3-C2-O2	-6.28	117.50	121.90
31	BA	1207	C	C5-C6-N1	-6.28	117.86	121.00
31	DA	448	U	C5-C6-N1	-6.28	119.56	122.70
31	BA	856	C	N1-C2-N3	6.28	123.59	119.20
31	DA	663	G	N3-C4-C5	6.28	131.74	128.60
31	DA	676	A	C6-C5-N7	-6.28	127.91	132.30
31	DA	1261	C	N3-C4-C5	6.28	124.41	121.90
31	BA	749	C	C6-N1-C2	6.28	122.81	120.30
31	DA	801	G	C2-N3-C4	-6.27	108.76	111.90
31	DA	2713	A	C4-C5-N7	6.27	113.84	110.70
31	BA	1557	C	C6-N1-C2	6.27	122.81	120.30
31	BA	1840	G	N1-C6-O6	6.27	123.66	119.90
31	DA	780	G	C8-N9-C4	6.27	108.91	106.40
31	BA	47	C	C5-C6-N1	-6.27	117.87	121.00
31	BA	2571	C	C5-C6-N1	-6.27	117.87	121.00
31	DA	121	G	C8-N9-C4	6.27	108.91	106.40
31	BA	672	C	N3-C4-C5	-6.26	119.39	121.90
1	CA	806	C	C6-N1-C2	6.26	122.81	120.30
31	DA	1030	G	C5-C6-O6	-6.26	124.84	128.60
1	CA	922	G	C4-N9-C1'	6.26	134.64	126.50
31	DA	2569	G	N1-C6-O6	6.26	123.66	119.90
31	DA	1998	G	C8-N9-C4	6.26	108.90	106.40
1	CA	1412	C	C6-N1-C2	6.26	122.80	120.30
31	BA	1324	G	N1-C6-O6	6.26	123.65	119.90
31	BA	2004	G	N3-C4-C5	6.26	131.73	128.60
31	DA	326	G	N1-C6-O6	6.26	123.65	119.90
31	DA	2691	C	C6-N1-C2	6.26	122.80	120.30
31	BA	568	U	N1-C2-O2	-6.25	118.42	122.80
31	DA	179	G	C2-N3-C4	-6.25	108.77	111.90
31	BA	1217	C	C6-N1-C2	6.25	122.80	120.30
31	BA	1794	U	C5-C6-N1	-6.25	119.57	122.70
31	DA	1269	A	C8-N9-C4	6.25	108.30	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2597	G	C8-N9-C4	6.25	108.90	106.40
31	DA	1210	A	C4-C5-N7	6.24	113.82	110.70
31	DA	2433	A	N1-C2-N3	6.24	132.42	129.30
31	BA	1142(A)	A	N3-C4-N9	-6.24	122.41	127.40
31	DA	2232	U	C2-N1-C1'	-6.24	110.21	117.70
31	BA	589	C	C5-C6-N1	-6.24	117.88	121.00
31	DA	459	U	C5-C6-N1	-6.24	119.58	122.70
31	DA	1253	A	C8-N9-C4	6.24	108.30	105.80
31	BA	2282	G	C4-N9-C1'	6.24	134.61	126.50
31	DA	2447	G	C3'-C2'-C1'	-6.24	96.51	101.50
31	BA	2246	G	C5-C6-O6	-6.24	124.86	128.60
31	DA	1244	G	N3-C4-C5	6.24	131.72	128.60
31	DA	1692	U	C5-C6-N1	-6.24	119.58	122.70
31	BA	1183	G	C5-N7-C8	-6.23	101.18	104.30
31	DA	870	A	N7-C8-N9	-6.23	110.68	113.80
31	BA	673	C	N3-C4-C5	6.23	124.39	121.90
31	DA	197	A	N1-C6-N6	6.23	122.34	118.60
31	DA	665	C	C6-N1-C2	6.23	122.79	120.30
31	BA	771	G	N7-C8-N9	-6.23	109.99	113.10
31	DA	1897	G	C5-C6-O6	-6.23	124.86	128.60
31	DA	2579	C	C6-N1-C2	6.22	122.79	120.30
31	DA	103	A	C8-N9-C4	6.22	108.29	105.80
31	DA	177	G	C8-N9-C4	6.21	108.89	106.40
31	BA	418	G	C8-N9-C4	6.21	108.89	106.40
31	DA	2426	A	N1-C2-N3	6.21	132.41	129.30
41	BP	59	LEU	N-CA-C	-6.21	94.23	111.00
31	DA	183	C	C6-N1-C2	6.21	122.78	120.30
31	DA	1653	G	N3-C4-N9	6.21	129.73	126.00
31	BA	2469	A	N1-C6-N6	6.21	122.32	118.60
31	DA	451	C	C2-N1-C1'	-6.21	111.97	118.80
31	BA	2073	C	C6-N1-C2	6.20	122.78	120.30
31	BA	1496	A	C8-N9-C4	-6.20	103.32	105.80
31	DA	1609	A	C3'-C2'-C1'	6.20	106.46	101.50
31	DA	2350	C	C6-N1-C2	6.20	122.78	120.30
31	BA	1337	G	C8-N9-C4	6.20	108.88	106.40
31	BA	2443	C	N1-C2-O2	-6.20	115.18	118.90
31	DA	693	C	N3-C4-C5	6.20	124.38	121.90
31	DA	1321	A	C8-N9-C4	6.19	108.28	105.80
31	BA	530	G	N1-C2-N2	-6.19	110.63	116.20
31	BA	1268	A	C2-N3-C4	-6.19	107.50	110.60
31	BA	1589	C	C2-N1-C1'	-6.19	111.99	118.80
31	BA	1677	A	C2-N3-C4	-6.19	107.50	110.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1813	G	C8-N9-C4	6.19	108.88	106.40
31	DA	2005	A	C8-N9-C4	6.19	108.28	105.80
31	DA	2464	C	N3-C4-C5	6.19	124.38	121.90
31	BA	1192	G	C8-N9-C4	6.19	108.88	106.40
31	BA	2714	G	N9-C4-C5	-6.19	102.92	105.40
31	DA	2731	G	C6-C5-N7	-6.19	126.69	130.40
31	BA	1800	C	C2-N1-C1'	-6.18	112.00	118.80
31	DA	1251	C	N1-C2-O2	-6.18	115.19	118.90
31	DA	1327	C	N1-C2-O2	-6.18	115.19	118.90
31	BA	1198	U	C5-C6-N1	-6.18	119.61	122.70
31	DA	2689	U	C5-C6-N1	-6.18	119.61	122.70
31	BA	2714	G	C5-C6-O6	-6.17	124.89	128.60
31	BA	1830	C	N3-C2-O2	6.17	126.22	121.90
31	DA	573	G	N1-C6-O6	-6.17	116.20	119.90
31	DA	2414	G	N1-C6-O6	6.17	123.60	119.90
31	DA	1930	G	C8-N9-C4	6.17	108.87	106.40
31	BA	2383	G	C8-N9-C1'	-6.17	118.99	127.00
31	DA	2399	G	N1-C6-O6	-6.17	116.20	119.90
31	BA	1589	C	C6-N1-C1'	6.16	128.19	120.80
32	BB	85	G	C5-C6-O6	-6.16	124.90	128.60
31	BA	121	G	C8-N9-C4	6.16	108.86	106.40
31	BA	473	G	C2-N3-C4	-6.16	108.82	111.90
31	BA	2230	G	N1-C6-O6	6.16	123.59	119.90
31	BA	2672	G	C6-C5-N7	-6.16	126.70	130.40
31	DA	753	C	N1-C2-O2	-6.16	115.20	118.90
31	DA	1965	C	C6-N1-C2	6.16	122.76	120.30
31	BA	388	G	N1-C6-O6	-6.15	116.21	119.90
31	BA	2433	A	C2-N3-C4	-6.15	107.52	110.60
31	DA	1277	G	C8-N9-C4	6.15	108.86	106.40
31	DA	2018	G	N1-C6-O6	6.15	123.59	119.90
31	DA	2079	U	C4-C5-C6	6.15	123.39	119.70
31	BA	527	C	C2-N3-C4	-6.15	116.83	119.90
31	DA	600	G	C8-N9-C4	6.15	108.86	106.40
31	DA	2013	A	C2-N3-C4	-6.15	107.52	110.60
31	DA	2762	G	N3-C4-C5	6.15	131.68	128.60
31	BA	246	C	N1-C2-O2	-6.15	115.21	118.90
31	BA	2029	G	N3-C4-N9	-6.15	122.31	126.00
31	DA	2818	G	C2-N3-C4	-6.15	108.83	111.90
32	DB	99	G	C8-N9-C4	6.15	108.86	106.40
31	BA	2578	G	C8-N9-C4	6.14	108.86	106.40
31	DA	1258	C	C5-C6-N1	-6.14	117.93	121.00
31	BA	1589	C	C5-C4-N4	6.14	124.50	120.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	287	C	C6-N1-C2	6.14	122.76	120.30
31	BA	2376	A	C4-C5-N7	6.14	113.77	110.70
31	DA	1833	U	N3-C2-O2	6.14	126.50	122.20
31	DA	2622	C	N3-C2-O2	6.14	126.20	121.90
1	AA	896	C	C6-N1-C2	6.14	122.75	120.30
31	DA	100	G	C4-C5-N7	-6.14	108.34	110.80
31	BA	583	G	C8-N9-C4	6.13	108.85	106.40
31	BA	2614	A	N9-C4-C5	-6.13	103.35	105.80
31	DA	1897	G	N1-C6-O6	6.13	123.58	119.90
31	BA	333	G	C8-N9-C4	-6.13	103.95	106.40
31	BA	2846	G	C8-N9-C4	6.13	108.85	106.40
31	BA	774	A	C5-C6-N1	-6.13	114.64	117.70
31	DA	530	G	N3-C2-N2	6.12	124.19	119.90
31	BA	2075	U	C5-C6-N1	-6.12	119.64	122.70
31	DA	1652	A	C4'-C3'-C2'	6.12	108.72	102.60
31	DA	2079	U	C5-C6-N1	-6.12	119.64	122.70
31	BA	1958	C	N3-C2-O2	6.12	126.18	121.90
31	DA	2426	A	C6-N1-C2	-6.12	114.93	118.60
31	BA	1616	A	C5-C6-N1	-6.12	114.64	117.70
31	DA	1974	C	N1-C2-O2	-6.12	115.23	118.90
31	DA	453	C	C5-C6-N1	-6.11	117.94	121.00
31	BA	1827	C	N3-C4-N4	-6.11	113.72	118.00
41	DP	53	GLY	N-CA-C	-6.11	97.82	113.10
31	DA	1142(A)	A	C5-N7-C8	-6.11	100.84	103.90
31	DA	1958	C	C6-N1-C2	6.11	122.74	120.30
31	DA	125	G	C5-C6-O6	-6.11	124.94	128.60
31	DA	141	A	C4-C5-N7	6.11	113.75	110.70
31	BA	2447	G	N3-C4-C5	-6.11	125.55	128.60
31	BA	2711	A	C2-N3-C4	-6.11	107.55	110.60
31	DA	512	G	N7-C8-N9	-6.11	110.05	113.10
31	DA	1608	A	N3-C4-N9	-6.11	122.52	127.40
31	BA	103	A	N7-C8-N9	-6.10	110.75	113.80
31	BA	2056	G	N9-C4-C5	-6.10	102.96	105.40
31	DA	2531	A	C2-N3-C4	-6.10	107.55	110.60
31	BA	735	A	N7-C8-N9	-6.10	110.75	113.80
31	BA	815	C	C6-N1-C2	6.09	122.74	120.30
31	DA	2443	C	C5-C4-N4	-6.09	115.93	120.20
31	DA	2242	G	C5-C6-O6	-6.09	124.94	128.60
32	BB	102	A	C8-N9-C4	6.09	108.24	105.80
31	DA	755	C	C6-N1-C2	6.09	122.73	120.30
31	DA	1829	A	C2-N3-C4	-6.09	107.56	110.60
32	DB	103	G	C4-N9-C1'	-6.09	118.58	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	679	C	C5-C6-N1	-6.09	117.96	121.00
31	DA	2394	C	C2-N1-C1'	-6.09	112.10	118.80
31	DA	1617	C	C2-N1-C1'	-6.09	112.10	118.80
31	BA	2236	C	C5-C4-N4	-6.08	115.94	120.20
31	BA	454	A	N1-C6-N6	-6.08	114.95	118.60
31	BA	1970	A	N1-C6-N6	6.08	122.25	118.60
31	DA	376	C	C5-C6-N1	-6.08	117.96	121.00
31	DA	566	U	C5-C6-N1	-6.08	119.66	122.70
31	BA	122	G	C5-C6-O6	-6.08	124.95	128.60
31	BA	2252	G	C2-N3-C4	-6.08	108.86	111.90
31	BA	610	G	C8-N9-C4	6.08	108.83	106.40
31	BA	467	G	N7-C8-N9	-6.08	110.06	113.10
31	BA	1495	A	C5-C6-N6	-6.08	118.84	123.70
31	BA	1599	C	C6-N1-C2	6.08	122.73	120.30
31	DA	1614	A	C6-C5-N7	-6.08	128.05	132.30
31	BA	471	A	C8-N9-C4	6.07	108.23	105.80
31	BA	1608	A	C2-N3-C4	-6.07	107.56	110.60
31	DA	397	G	N3-C4-C5	6.07	131.64	128.60
31	DA	729	G	N1-C2-N2	6.07	121.67	116.20
31	BA	100	G	C4-C5-N7	-6.07	108.37	110.80
31	BA	788	A	C8-N9-C4	6.07	108.23	105.80
31	DA	2621	A	C2-N3-C4	-6.07	107.56	110.60
31	BA	472	A	C4'-C3'-C2'	6.07	108.67	102.60
31	DA	2829	C	C6-N1-C2	6.07	122.73	120.30
1	AA	244	U	C6-N1-C2	6.07	124.64	121.00
31	DA	2740	A	C8-N9-C4	6.07	108.23	105.80
31	BA	621	A	C5-N7-C8	-6.07	100.87	103.90
31	DA	1678	G	C2-N3-C4	-6.07	108.87	111.90
31	DA	2383	G	N1-C2-N2	-6.07	110.74	116.20
31	BA	2436	G	N1-C6-O6	6.06	123.53	119.90
31	DA	377	C	C6-N1-C2	6.06	122.72	120.30
31	DA	1891	G	C8-N9-C4	6.05	108.82	106.40
31	DA	2485	G	N1-C6-O6	6.05	123.53	119.90
31	BA	125	G	N9-C4-C5	-6.05	102.98	105.40
31	DA	575	A	N1-C6-N6	6.05	122.23	118.60
1	AA	885	G	N3-C4-C5	6.05	131.62	128.60
31	BA	1439	A	N9-C4-C5	-6.05	103.38	105.80
31	DA	97	C	C5-C6-N1	-6.05	117.98	121.00
31	DA	1122	G	C8-N9-C4	6.05	108.82	106.40
31	BA	2433	A	N1-C2-N3	6.05	132.32	129.30
31	DA	2825	C	C6-N1-C2	6.05	122.72	120.30
31	BA	565	C	N3-C4-C5	6.04	124.32	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	676	A	N1-C6-N6	6.04	122.23	118.60
31	BA	1528	A	C8-N9-C4	-6.04	103.38	105.80
31	DA	133	C	C6-N1-C2	6.04	122.72	120.30
31	DA	803	U	C2-N3-C4	-6.04	123.37	127.00
31	DA	2008	C	C4-C5-C6	6.04	120.42	117.40
31	BA	734	A	N1-C6-N6	6.04	122.22	118.60
31	BA	1937	A	C8-N9-C4	6.04	108.22	105.80
31	BA	1409	C	C6-N1-C2	6.04	122.72	120.30
31	DA	210	C	C5-C6-N1	-6.04	117.98	121.00
31	BA	1323	U	N3-C2-O2	6.04	126.43	122.20
31	BA	611	C	N1-C2-O2	-6.04	115.28	118.90
32	DB	27	C	C2-N1-C1'	6.04	125.44	118.80
31	BA	1819	A	N1-C6-N6	-6.03	114.98	118.60
31	DA	1332	G	C4-N9-C1'	-6.03	118.66	126.50
31	BA	1397	U	N1-C2-N3	6.03	118.52	114.90
31	DA	2447	G	C6-N1-C2	-6.03	121.48	125.10
31	BA	1477	A	C8-N9-C4	6.03	108.21	105.80
31	DA	2446	G	N7-C8-N9	-6.03	110.08	113.10
32	BB	104	U	C5-C6-N1	-6.03	119.69	122.70
32	BB	107	G	N3-C4-C5	6.03	131.62	128.60
27	D5	51	TYR	CA-CB-CG	6.03	124.85	113.40
31	DA	142	A	N7-C8-N9	6.03	116.81	113.80
31	DA	859	G	N3-C4-C5	6.03	131.61	128.60
31	DA	1779	U	C5-C4-O4	6.03	129.52	125.90
31	DA	72	U	N3-C4-O4	-6.03	115.18	119.40
31	DA	949	C	C6-N1-C2	6.03	122.71	120.30
31	DA	2067	G	N3-C2-N2	-6.03	115.68	119.90
31	DA	2438	U	C5-C6-N1	-6.03	119.69	122.70
31	BA	1144	G	N1-C6-O6	6.02	123.51	119.90
31	BA	1210	A	C5-N7-C8	-6.02	100.89	103.90
31	BA	2516	G	N1-C6-O6	-6.02	116.29	119.90
31	BA	937	U	N3-C2-O2	6.02	126.41	122.20
31	BA	2542	A	C2-N3-C4	-6.02	107.59	110.60
31	BA	2684	U	C6-N1-C2	6.02	124.61	121.00
31	BA	2430	A	C5-C6-N1	-6.02	114.69	117.70
1	CA	923	A	C4-N9-C1'	6.02	137.13	126.30
31	BA	1256	G	C5-C6-O6	-6.02	124.99	128.60
31	BA	1354	A	C8-N9-C4	6.02	108.21	105.80
31	BA	2023	G	N1-C2-N2	6.02	121.61	116.20
31	BA	1207	C	C6-N1-C2	6.01	122.71	120.30
31	BA	2647	U	N3-C2-O2	6.01	126.41	122.20
31	DA	1263	U	C5-C6-N1	-6.01	119.69	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1334	G	N3-C2-N2	-6.01	115.69	119.90
31	DA	2436	G	N3-C4-N9	-6.01	122.39	126.00
31	BA	2512	C	C5-C6-N1	-6.01	118.00	121.00
31	DA	789	A	C8-N9-C4	6.01	108.20	105.80
41	DP	59	LEU	N-CA-C	-6.01	94.78	111.00
1	CA	9	G	C8-N9-C4	6.00	108.80	106.40
31	DA	474	G	C8-N9-C4	-6.00	104.00	106.40
31	DA	1204	A	C4-N9-C1'	6.00	137.11	126.30
31	BA	71	A	N1-C6-N6	6.00	122.20	118.60
1	CA	811	C	C6-N1-C2	6.00	122.70	120.30
31	DA	2056	G	C4-C5-N7	6.00	113.20	110.80
31	DA	2082	A	N7-C8-N9	-6.00	110.80	113.80
31	DA	985	C	C6-N1-C2	6.00	122.70	120.30
31	BA	1616	A	C8-N9-C4	-6.00	103.40	105.80
31	DA	786	C	C2-N3-C4	-6.00	116.90	119.90
31	DA	850	C	C6-N1-C2	6.00	122.70	120.30
31	DA	1029	A	N1-C6-N6	6.00	122.20	118.60
31	BA	2464	C	C6-N1-C1'	-6.00	113.60	120.80
31	DA	1991	U	C5-C6-N1	-6.00	119.70	122.70
31	DA	98	G	C8-N9-C4	5.99	108.80	106.40
31	DA	2686	G	N1-C6-O6	5.99	123.50	119.90
31	BA	1021	A	C5-C6-N1	-5.99	114.70	117.70
31	DA	2725	A	C8-N9-C4	5.99	108.20	105.80
31	BA	1021	A	N7-C8-N9	5.99	116.80	113.80
31	BA	978	G	C8-N9-C4	5.99	108.80	106.40
31	BA	133	C	N3-C2-O2	5.99	126.09	121.90
31	BA	1653	G	P-O3'-C3'	5.99	126.88	119.70
31	BA	2531	A	N3-C4-C5	5.99	130.99	126.80
31	DA	2518	A	C4-C5-N7	5.99	113.69	110.70
1	CA	398	C	C6-N1-C2	5.98	122.69	120.30
1	CA	923	A	C8-N9-C4	-5.98	103.41	105.80
31	BA	2702	U	N1-C2-N3	5.98	118.49	114.90
31	DA	1751	C	C6-N1-C2	5.98	122.69	120.30
31	DA	2469	A	N7-C8-N9	5.98	116.79	113.80
31	BA	593	G	C2-N3-C4	-5.98	108.91	111.90
31	BA	945	A	N1-C2-N3	5.98	132.29	129.30
31	DA	1207	C	C6-N1-C2	5.98	122.69	120.30
31	DA	1967	C	N3-C4-C5	5.98	124.29	121.90
31	BA	759	G	N1-C6-O6	5.98	123.49	119.90
31	BA	1256	G	N9-C4-C5	-5.98	103.01	105.40
31	BA	2850	A	N9-C4-C5	-5.98	103.41	105.80
31	DA	142	A	C6-C5-N7	-5.98	128.12	132.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	238	C	N3-C2-O2	5.98	126.08	121.90
31	DA	47	C	C6-N1-C2	5.98	122.69	120.30
31	DA	244	A	N1-C6-N6	5.97	122.19	118.60
31	DA	791	C	C6-N1-C2	5.97	122.69	120.30
31	DA	1786	A	C8-N9-C4	-5.97	103.41	105.80
31	DA	2539	C	C2-N3-C4	-5.97	116.91	119.90
31	BA	1496	A	N1-C6-N6	5.97	122.18	118.60
31	BA	1977	A	N1-C2-N3	5.97	132.29	129.30
31	DA	1142(A)	A	N1-C2-N3	5.97	132.29	129.30
31	DA	1266	G	N7-C8-N9	-5.97	110.11	113.10
31	BA	2741	A	C8-N9-C4	5.97	108.19	105.80
31	DA	2287	A	C2-N3-C4	-5.97	107.61	110.60
31	DA	1257	C	C5-C6-N1	-5.97	118.02	121.00
31	DA	1310	G	N1-C6-O6	5.96	123.48	119.90
31	BA	2477	C	C6-N1-C2	-5.96	117.92	120.30
31	DA	1573	G	N3-C4-C5	5.96	131.58	128.60
31	DA	1794	U	C6-N1-C2	5.96	124.58	121.00
46	DU	95	LEU	CA-CB-CG	-5.96	101.60	115.30
31	DA	796	C	C5-C6-N1	-5.95	118.02	121.00
31	DA	2714	G	C6-C5-N7	-5.95	126.83	130.40
31	BA	1543	C	C2-N1-C1'	5.95	125.35	118.80
31	BA	1652	A	C4'-C3'-C2'	5.95	108.55	102.60
31	BA	2466	C	N3-C2-O2	5.95	126.07	121.90
31	BA	2695	C	C6-N1-C2	5.95	122.68	120.30
31	DA	481	G	C6-C5-N7	-5.95	126.83	130.40
31	BA	859	G	C4-N9-C1'	-5.95	118.77	126.50
31	DA	809	G	N3-C2-N2	-5.95	115.74	119.90
31	DA	509	C	N1-C2-O2	-5.95	115.33	118.90
31	BA	466	A	N1-C2-N3	5.94	132.27	129.30
31	BA	1497	U	N1-C2-N3	-5.94	111.33	114.90
1	CA	770	C	N1-C2-O2	-5.94	115.33	118.90
31	BA	2614	A	N1-C2-N3	-5.94	126.33	129.30
31	BA	1432	C	C6-N1-C2	5.94	122.68	120.30
31	BA	2286	A	O4'-C1'-N9	5.94	112.95	108.20
1	AA	55	A	C4-C5-C6	5.94	119.97	117.00
31	DA	1971	A	C8-N9-C4	5.94	108.17	105.80
31	DA	2481	G	N9-C4-C5	-5.94	103.03	105.40
31	DA	1784	A	N7-C8-N9	-5.93	110.83	113.80
31	DA	774	A	C5-C6-N1	-5.93	114.73	117.70
31	BA	2485	G	C5-C6-O6	-5.93	125.04	128.60
31	BA	2567	G	N7-C8-N9	-5.93	110.14	113.10
31	BA	122	G	N1-C6-O6	5.93	123.46	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	848	G	C4-N9-C1'	5.93	134.21	126.50
31	DA	980	A	N9-C4-C5	-5.93	103.43	105.80
31	DA	2731	G	C4-C5-N7	5.93	113.17	110.80
31	DA	220	G	N1-C6-O6	5.93	123.46	119.90
31	DA	2246	G	C5-C6-O6	-5.93	125.04	128.60
31	BA	16	G	C5-C6-N1	-5.92	108.54	111.50
31	DA	2523	G	N1-C6-O6	5.92	123.45	119.90
31	BA	2241	A	N1-C2-N3	5.92	132.26	129.30
31	BA	970	C	C6-N1-C2	5.92	122.67	120.30
31	BA	748	G	C8-N9-C1'	5.92	134.69	127.00
31	BA	1344	G	C5-C6-N1	-5.92	108.54	111.50
31	BA	534	U	C5-C4-O4	5.91	129.45	125.90
31	BA	1496	A	C4-N9-C1'	5.91	136.94	126.30
31	DA	630	G	N7-C8-N9	-5.91	110.14	113.10
31	DA	1297	C	N1-C2-O2	-5.91	115.35	118.90
31	DA	2853	C	C6-N1-C2	5.91	122.67	120.30
31	BA	329	G	N1-C6-O6	5.91	123.45	119.90
31	BA	382	G	N1-C6-O6	5.91	123.45	119.90
31	BA	784	A	N9-C4-C5	5.91	108.16	105.80
31	DA	1639	U	C5-C6-N1	-5.91	119.75	122.70
31	DA	723	G	C8-N9-C4	5.91	108.76	106.40
31	BA	2202	C	C6-N1-C2	5.90	122.66	120.30
31	BA	933	A	C2-N3-C4	-5.90	107.65	110.60
31	BA	2345	G	C4-C5-N7	-5.90	108.44	110.80
31	DA	1764	G	N3-C4-C5	5.90	131.55	128.60
31	BA	2762	G	C2-N3-C4	-5.90	108.95	111.90
31	DA	506	G	C8-N9-C4	5.90	108.76	106.40
31	DA	1552	G	N3-C4-C5	5.90	131.55	128.60
31	DA	2465	C	N3-C4-C5	5.90	124.26	121.90
31	BA	2689	U	C5-C6-N1	-5.90	119.75	122.70
31	DA	874	G	C4-N9-C1'	-5.90	118.84	126.50
31	BA	2447	G	C5-C6-N1	5.89	114.45	111.50
31	BA	1698	A	N1-C6-N6	5.89	122.14	118.60
31	BA	1784	A	N7-C8-N9	-5.89	110.85	113.80
31	DA	375	C	C6-N1-C2	5.89	122.66	120.30
31	DA	697	C	C6-N1-C2	5.89	122.66	120.30
31	DA	792	G	C8-N9-C4	5.89	108.76	106.40
31	DA	2531	A	N3-C4-C5	5.89	130.92	126.80
31	BA	16	G	N3-C4-C5	5.89	131.54	128.60
31	BA	2447	G	N9-C4-C5	-5.89	103.04	105.40
31	DA	671	C	N1-C2-N3	5.89	123.32	119.20
31	DA	2066	C	C6-N1-C2	5.89	122.66	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2075	U	C4-C5-C6	5.89	123.23	119.70
31	BA	2517	C	C6-N1-C2	5.89	122.66	120.30
31	DA	528	A	N3-C4-C5	5.89	130.92	126.80
31	BA	1213	A	C5-N7-C8	-5.89	100.96	103.90
31	BA	1216	G	C2-N3-C4	-5.89	108.96	111.90
31	BA	1978	A	C8-N9-C4	5.89	108.15	105.80
31	DA	1496	A	C4-N9-C1'	5.89	136.90	126.30
31	DA	2000	G	C8-N9-C4	5.89	108.75	106.40
31	BA	970	C	C4-C5-C6	5.88	120.34	117.40
46	BU	95	LEU	CA-CB-CG	-5.88	101.77	115.30
31	DA	2283	C	N3-C2-O2	5.88	126.02	121.90
1	AA	903	G	N1-C6-O6	5.88	123.43	119.90
31	BA	1216	G	N1-C6-O6	5.88	123.43	119.90
31	BA	2827	C	C5-C4-N4	-5.88	116.08	120.20
31	BA	1233	C	N1-C2-O2	-5.88	115.37	118.90
31	DA	1291	C	N1-C2-O2	-5.88	115.37	118.90
31	BA	133	C	C6-N1-C2	5.88	122.65	120.30
31	DA	2439	A	N1-C6-N6	5.88	122.13	118.60
31	BA	21	A	C2-N3-C4	-5.88	107.66	110.60
31	BA	2032	G	C4-C5-N7	5.88	113.15	110.80
1	AA	322	C	C6-N1-C2	5.88	122.65	120.30
31	BA	1251	C	C5-C6-N1	-5.88	118.06	121.00
31	BA	2374	C	C5-C6-N1	-5.88	118.06	121.00
31	BA	474	G	N7-C8-N9	5.87	116.04	113.10
31	DA	409	C	N3-C4-C5	5.87	124.25	121.90
31	DA	1811	G	N3-C4-N9	-5.87	122.48	126.00
31	DA	2440	C	C2-N1-C1'	-5.87	112.34	118.80
31	BA	1420	U	C2-N1-C1'	5.87	124.74	117.70
31	BA	2430	A	N7-C8-N9	5.87	116.73	113.80
31	DA	506	G	N3-C4-C5	5.87	131.53	128.60
31	DA	753	C	C2-N3-C4	-5.87	116.97	119.90
31	DA	2713	A	C5-N7-C8	-5.87	100.97	103.90
31	BA	942	G	C8-N9-C4	-5.87	104.05	106.40
31	DA	2044	C	N3-C2-O2	5.87	126.01	121.90
31	BA	2063	C	N1-C2-O2	-5.86	115.38	118.90
31	DA	491	G	N3-C4-C5	5.86	131.53	128.60
31	DA	978	G	C8-N9-C4	5.86	108.75	106.40
31	BA	2495	G	C8-N9-C4	5.86	108.75	106.40
32	BB	68	C	C2-N1-C1'	5.86	125.25	118.80
31	BA	1656	C	C6-N1-C2	5.86	122.64	120.30
31	BA	1779	U	C6-N1-C1'	5.86	129.40	121.20
31	DA	771	G	N7-C8-N9	-5.86	110.17	113.10

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	687	C	C6-N1-C2	-5.85	117.96	120.30
31	BA	1990	C	N3-C4-C5	-5.85	119.56	121.90
31	BA	2606	C	C6-N1-C2	5.85	122.64	120.30
31	DA	700	G	C8-N9-C4	5.85	108.74	106.40
31	DA	1968	G	C5-C6-O6	-5.85	125.09	128.60
31	BA	587	C	N3-C4-C5	-5.85	119.56	121.90
31	DA	201	C	N3-C2-O2	5.85	126.00	121.90
31	BA	122	G	C8-N9-C4	5.85	108.74	106.40
31	BA	562	U	C5-C4-O4	-5.85	122.39	125.90
31	BA	1496	A	C6-C5-N7	-5.85	128.21	132.30
31	BA	2239	G	C5-C6-N1	5.85	114.42	111.50
31	DA	774	A	N7-C8-N9	5.85	116.72	113.80
31	BA	2579	C	N3-C4-C5	5.85	124.24	121.90
1	CA	260	G	N1-C6-O6	5.85	123.41	119.90
31	DA	2447	G	N7-C8-N9	-5.84	110.18	113.10
31	DA	807	U	N1-C2-O2	-5.84	118.71	122.80
31	BA	2276	G	N3-C2-N2	-5.84	115.81	119.90
31	DA	788	A	C8-N9-C4	5.84	108.14	105.80
31	DA	805	G	C2-N3-C4	-5.84	108.98	111.90
31	DA	1253	A	N9-C4-C5	-5.84	103.46	105.80
31	BA	506	G	N1-C6-O6	5.84	123.40	119.90
41	DP	52	GLU	N-CA-C	5.84	126.77	111.00
31	DA	1934	C	C4'-C3'-C2'	5.84	108.44	102.60
31	DA	1543	C	N1-C2-N3	-5.84	115.11	119.20
31	DA	2580	U	C6-N1-C2	5.84	124.50	121.00
31	DA	210	C	C2-N3-C4	-5.83	116.98	119.90
31	DA	1420	U	C2-N1-C1'	5.83	124.70	117.70
31	BA	1823	G	C5-C6-N1	-5.83	108.58	111.50
31	BA	2258	C	N3-C4-N4	5.83	122.08	118.00
32	BB	27	C	C2-N1-C1'	5.83	125.22	118.80
31	DA	2017	U	N3-C2-O2	5.83	126.28	122.20
31	DA	1022	G	N3-C2-N2	-5.83	115.82	119.90
31	DA	2084	C	C5-C6-N1	-5.83	118.08	121.00
31	DA	2841	C	N3-C2-O2	5.83	125.98	121.90
33	DD	243	GLY	N-CA-C	-5.83	98.52	113.10
31	BA	786	C	C2-N3-C4	-5.83	116.98	119.90
31	DA	2644	G	C8-N9-C4	5.83	108.73	106.40
31	DA	2723	C	C6-N1-C2	5.83	122.63	120.30
31	DA	2282	G	C4-N9-C1'	5.83	134.08	126.50
31	DA	2695	C	C6-N1-C2	5.83	122.63	120.30
31	BA	506	G	N3-C4-C5	5.82	131.51	128.60
31	BA	2657	A	N1-C6-N6	5.82	122.09	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1189	A	N9-C4-C5	-5.82	103.47	105.80
31	DA	1202	C	C5-C6-N1	-5.82	118.09	121.00
31	DA	1269	A	N1-C6-N6	5.82	122.09	118.60
31	DA	2466	C	C6-N1-C2	5.82	122.63	120.30
31	BA	1027	A	N1-C2-N3	5.82	132.21	129.30
31	DA	506	G	C5-C6-O6	-5.82	125.11	128.60
31	DA	2779	U	C5-C6-N1	-5.82	119.79	122.70
31	BA	621	A	C2-N3-C4	-5.82	107.69	110.60
31	BA	1432	C	N3-C4-C5	5.82	124.23	121.90
31	BA	2688	U	C5-C4-O4	5.82	129.39	125.90
31	BA	2729	G	C8-N9-C4	5.82	108.73	106.40
31	BA	2567	G	C8-N9-C4	5.82	108.73	106.40
31	DA	1496	A	N1-C6-N6	5.82	122.09	118.60
31	DA	2246	G	N1-C6-O6	5.82	123.39	119.90
31	BA	182	A	C5-N7-C8	-5.81	100.99	103.90
31	BA	2061	G	C2-N3-C4	5.81	114.81	111.90
31	DA	141	A	N1-C6-N6	5.81	122.09	118.60
1	AA	1484	C	N1-C2-O2	-5.81	115.41	118.90
31	DA	1201	C	N3-C4-C5	5.81	124.22	121.90
31	DA	1207	C	N3-C2-O2	5.81	125.97	121.90
31	DA	2572	A	N1-C6-N6	5.81	122.09	118.60
31	BA	1843	C	C2-N3-C4	-5.81	117.00	119.90
31	BA	2702	U	C2-N3-C4	-5.81	123.52	127.00
31	DA	945	A	C5-C6-N1	-5.81	114.80	117.70
31	DA	1241	A	C5-C6-N1	-5.81	114.80	117.70
31	BA	1978	A	N7-C8-N9	-5.81	110.90	113.80
31	BA	687	C	C5-C6-N1	5.80	123.90	121.00
31	BA	1222	C	C6-N1-C2	5.80	122.62	120.30
31	BA	1653	G	N3-C4-N9	5.80	129.48	126.00
31	DA	2067	G	C5-C6-O6	-5.80	125.12	128.60
31	BA	797	C	N1-C2-O2	-5.80	115.42	118.90
31	BA	190	A	N9-C4-C5	-5.80	103.48	105.80
31	BA	396	G	C8-N9-C4	5.80	108.72	106.40
31	BA	990	A	C2-N3-C4	-5.80	107.70	110.60
31	BA	2287	A	N1-C2-N3	5.80	132.20	129.30
31	DA	1496	A	N7-C8-N9	5.80	116.70	113.80
31	BA	553	G	N3-C4-C5	5.80	131.50	128.60
31	BA	1552	G	N3-C4-C5	5.80	131.50	128.60
31	BA	2253	G	C8-N9-C1'	-5.80	119.46	127.00
31	BA	845	G	C5-N7-C8	-5.79	101.40	104.30
31	BA	942	G	N9-C4-C5	5.79	107.72	105.40
31	BA	1193	G	N9-C4-C5	-5.79	103.08	105.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	780	G	N7-C8-N9	-5.79	110.20	113.10
31	BA	40	C	N1-C2-O2	-5.79	115.42	118.90
31	BA	1830	C	N3-C4-C5	5.79	124.22	121.90
31	DA	2033	A	C5-C6-N1	5.79	120.59	117.70
31	BA	196	A	N1-C6-N6	5.79	122.07	118.60
31	BA	792	G	C8-N9-C4	5.79	108.72	106.40
31	BA	1204	A	C8-N9-C1'	-5.79	117.28	127.70
31	BA	2253	G	C6-C5-N7	-5.79	126.93	130.40
31	DA	933	A	C5-N7-C8	-5.79	101.01	103.90
31	DA	975(A)	G	C5-C6-O6	-5.79	125.13	128.60
31	BA	62	C	C5-C6-N1	-5.79	118.11	121.00
31	BA	1800	C	C6-N1-C2	5.79	122.61	120.30
31	DA	83	G	N3-C2-N2	-5.79	115.85	119.90
31	DA	1321	A	N7-C8-N9	-5.79	110.91	113.80
31	BA	2000	G	N3-C4-C5	5.79	131.49	128.60
1	AA	34	C	C6-N1-C2	5.78	122.61	120.30
31	BA	686	G	N1-C2-N2	-5.78	111.00	116.20
31	DA	2091	U	C2-N1-C1'	-5.78	110.76	117.70
31	BA	207	A	C8-N9-C4	5.78	108.11	105.80
31	DA	2394	C	C6-N1-C2	5.78	122.61	120.30
31	DA	2436	G	C2-N3-C4	-5.78	109.01	111.90
31	DA	570	G	C2-N3-C4	-5.78	109.01	111.90
31	BA	414	C	C2-N3-C4	-5.78	117.01	119.90
31	DA	1823	G	C8-N9-C4	5.78	108.71	106.40
31	BA	579	G	N1-C6-O6	5.77	123.36	119.90
31	BA	2527	C	N3-C2-O2	5.77	125.94	121.90
31	BA	2628	C	C6-N1-C2	5.77	122.61	120.30
1	CA	904	C	C6-N1-C2	5.77	122.61	120.30
31	DA	2291	U	C6-N1-C2	5.77	124.46	121.00
31	BA	1698	A	C5-N7-C8	-5.77	101.01	103.90
31	DA	1032	A	N7-C8-N9	-5.77	110.91	113.80
31	BA	751	A	C2-N3-C4	-5.77	107.72	110.60
31	BA	814	C	C2-N1-C1'	-5.77	112.45	118.80
31	BA	1559	G	N3-C4-C5	5.77	131.48	128.60
30	D8	61	LEU	CA-CB-CG	-5.77	102.03	115.30
31	BA	2502	G	N1-C6-O6	5.76	123.36	119.90
31	BA	415	A	C8-N9-C4	5.76	108.11	105.80
31	BA	2723	C	N3-C4-C5	5.76	124.20	121.90
31	DA	2282	G	N7-C8-N9	5.76	115.98	113.10
31	DA	2441	C	C2-N3-C4	-5.76	117.02	119.90
31	DA	2848	G	C8-N9-C4	5.76	108.70	106.40
31	BA	330	A	N1-C6-N6	5.76	122.06	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2614	A	C5-C6-N6	-5.76	119.09	123.70
31	DA	512	G	C8-N9-C1'	5.76	134.49	127.00
31	DA	527	C	N3-C4-C5	5.76	124.20	121.90
31	BA	43	A	C2-N3-C4	-5.76	107.72	110.60
31	DA	814	C	C5-C6-N1	-5.75	118.12	121.00
31	BA	1204	A	C4-C5-N7	5.75	113.58	110.70
31	BA	1263	U	C5-C6-N1	-5.75	119.82	122.70
31	BA	2360	A	N7-C8-N9	5.75	116.67	113.80
31	DA	1608	A	N1-C2-N3	5.75	132.18	129.30
1	AA	9	G	C8-N9-C4	5.75	108.70	106.40
31	DA	1189	A	C2-N3-C4	-5.75	107.72	110.60
31	DA	2716	U	C5-C6-N1	-5.75	119.83	122.70
31	BA	2070	G	N7-C8-N9	-5.75	110.22	113.10
31	DA	125	G	N1-C6-O6	5.75	123.35	119.90
31	BA	2088	G	N3-C4-C5	5.75	131.47	128.60
31	BA	2440	C	C2-N1-C1'	-5.75	112.48	118.80
33	BD	60	ARG	NE-CZ-NH1	-5.75	117.43	120.30
31	DA	528	A	N9-C4-C5	5.75	108.10	105.80
31	DA	1129	A	C8-N9-C4	5.75	108.10	105.80
31	BA	1609	A	C3'-C2'-C1'	5.75	106.10	101.50
31	BA	2614	A	N1-C6-N6	5.74	122.05	118.60
1	AA	1401	G	N1-C6-O6	5.74	123.34	119.90
31	BA	679	C	C5-C6-N1	-5.74	118.13	121.00
31	DA	2544	G	C6-C5-N7	-5.74	126.95	130.40
31	DA	837	C	C6-N1-C2	-5.74	118.00	120.30
31	DA	1708	C	C6-N1-C2	5.74	122.60	120.30
31	DA	1252	G	N7-C8-N9	-5.74	110.23	113.10
31	DA	1937	A	N1-C6-N6	5.74	122.04	118.60
31	BA	1210	A	C2-N3-C4	-5.74	107.73	110.60
31	BA	1291	C	C6-N1-C2	5.74	122.59	120.30
31	BA	1614	A	N9-C4-C5	-5.74	103.50	105.80
31	BA	2599	G	C5-C6-O6	-5.74	125.16	128.60
31	DA	577	G	C5-C6-N1	-5.74	108.63	111.50
31	DA	948	G	N3-C4-N9	-5.74	122.56	126.00
31	BA	2360	A	C5-N7-C8	-5.73	101.03	103.90
31	BA	1380	G	C8-N9-C4	5.73	108.69	106.40
31	BA	2439	A	C5-N7-C8	-5.73	101.03	103.90
31	DA	2033	A	N7-C8-N9	-5.73	110.93	113.80
31	BA	1972	A	N1-C6-N6	5.73	122.04	118.60
43	BR	54	LEU	CA-CB-CG	-5.73	102.13	115.30
31	DA	937	U	C5-C6-N1	-5.73	119.84	122.70
31	DA	1334	G	N1-C6-O6	5.73	123.34	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	730	C	N3-C4-C5	5.72	124.19	121.90
31	BA	1385	G	N3-C4-C5	5.72	131.46	128.60
31	DA	1902	C	N3-C4-N4	-5.72	113.99	118.00
31	BA	1269	A	N7-C8-N9	-5.72	110.94	113.80
31	DA	330	A	C8-N9-C4	5.72	108.09	105.80
31	DA	529	A	N7-C8-N9	5.72	116.66	113.80
31	BA	783	A	C8-N9-C4	-5.72	103.51	105.80
31	BA	800	A	N1-C6-N6	-5.72	115.17	118.60
31	BA	2713	A	C6-C5-N7	-5.72	128.30	132.30
31	BA	2878	U	C5-C4-O4	5.72	129.33	125.90
31	DA	783	A	C4-C5-N7	5.72	113.56	110.70
31	BA	760	G	C2-N3-C4	-5.72	109.04	111.90
31	BA	563	G	C8-N9-C4	5.72	108.69	106.40
31	DA	37	C	C6-N1-C2	5.72	122.59	120.30
31	DA	491	G	N3-C4-N9	-5.72	122.57	126.00
31	DA	1350	C	N3-C2-O2	5.72	125.90	121.90
31	DA	2362	G	C8-N9-C4	5.72	108.69	106.40
31	BA	2597	G	N7-C8-N9	-5.71	110.24	113.10
31	DA	375	C	C5-C6-N1	-5.71	118.14	121.00
31	BA	190	A	C5-C6-N6	-5.71	119.13	123.70
31	BA	788	A	C4-C5-C6	5.71	119.86	117.00
31	DA	189	G	C8-N9-C4	5.71	108.69	106.40
31	DA	2052	G	C8-N9-C4	5.71	108.68	106.40
31	DA	2389	G	N3-C4-N9	-5.71	122.57	126.00
31	BA	1495	A	C8-N9-C4	-5.71	103.52	105.80
31	DA	1130	U	N3-C2-O2	-5.71	118.20	122.20
1	AA	483	C	C6-N1-C2	5.71	122.58	120.30
31	BA	2346	A	C4-C5-C6	5.71	119.85	117.00
1	CA	308	C	C6-N1-C2	5.71	122.58	120.30
31	BA	2714	G	C4-C5-N7	5.71	113.08	110.80
27	D5	4	HIS	C-N-CD	5.71	140.38	128.40
31	BA	639	U	C5-C4-O4	5.70	129.32	125.90
31	BA	809	G	N3-C2-N2	-5.70	115.91	119.90
31	DA	1967	C	N3-C2-O2	5.70	125.89	121.90
31	DA	2515	C	N1-C2-O2	-5.70	115.48	118.90
1	AA	877	C	C6-N1-C2	5.70	122.58	120.30
31	BA	1210	A	N7-C8-N9	5.70	116.65	113.80
31	DA	62	C	C5-C6-N1	-5.70	118.15	121.00
31	BA	1251	C	C6-N1-C2	5.69	122.58	120.30
31	DA	1204	A	N9-C4-C5	-5.69	103.52	105.80
31	DA	1484	G	C4'-C3'-C2'	5.69	108.29	102.60
31	BA	762	U	C5-C4-O4	-5.69	122.49	125.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2487	G	N1-C6-O6	5.69	123.31	119.90
31	BA	2532	G	C6-C5-N7	-5.69	126.99	130.40
31	DA	1323	U	N1-C2-O2	-5.69	118.82	122.80
1	AA	55	A	C6-C5-N7	-5.69	128.32	132.30
31	DA	691	C	C6-N1-C2	5.69	122.58	120.30
31	DA	2569	G	C5-C6-O6	-5.69	125.19	128.60
31	BA	1131	G	N7-C8-N9	-5.68	110.26	113.10
31	BA	1484	G	C4'-C3'-C2'	5.68	108.28	102.60
31	BA	2644	G	N3-C4-C5	5.68	131.44	128.60
31	DA	1021	A	N1-C2-N3	5.68	132.14	129.30
31	BA	2435	A	C8-N9-C4	5.68	108.07	105.80
31	DA	2766	G	C6-C5-N7	-5.68	126.99	130.40
31	BA	561	G	C8-N9-C4	5.68	108.67	106.40
31	DA	2061	G	C5-C6-N1	5.68	114.34	111.50
1	AA	1524	C	C6-N1-C2	5.68	122.57	120.30
31	BA	2041	U	C2-N3-C4	-5.68	123.59	127.00
31	DA	2440	C	C5-C6-N1	-5.68	118.16	121.00
31	DA	2447	G	N9-C4-C5	-5.68	103.13	105.40
31	DA	2841	C	N3-C4-C5	5.68	124.17	121.90
31	BA	203	C	C6-N1-C2	5.67	122.57	120.30
31	BA	1779	U	C5-C4-O4	5.67	129.31	125.90
1	CA	818	G	C4-C5-N7	-5.67	108.53	110.80
31	DA	2676	C	C2-N3-C4	-5.67	117.06	119.90
31	DA	656	G	N3-C4-C5	-5.67	125.76	128.60
31	DA	2713	A	C2-N3-C4	-5.67	107.76	110.60
32	DB	68	C	C2-N1-C1'	5.67	125.04	118.80
31	BA	1314	C	C6-N1-C1'	-5.67	114.00	120.80
31	BA	1769	G	N1-C6-O6	5.67	123.30	119.90
31	BA	2081	C	C6-N1-C2	5.67	122.57	120.30
31	DA	2495	G	C8-N9-C4	5.67	108.67	106.40
31	BA	177	G	C8-N9-C4	5.67	108.67	106.40
1	CA	320	C	C6-N1-C2	5.67	122.57	120.30
31	DA	771	G	C5-C6-O6	-5.67	125.20	128.60
31	DA	840	C	C5-C6-N1	-5.67	118.17	121.00
31	DA	663	G	C5-C6-N1	-5.67	108.67	111.50
31	DA	1784	A	N1-C6-N6	5.67	122.00	118.60
31	BA	1556	C	N3-C4-C5	5.66	124.17	121.90
31	BA	2374	C	C6-N1-C2	5.66	122.56	120.30
31	DA	2383	G	C4-N9-C1'	5.66	133.86	126.50
31	BA	139(A)	G	N7-C8-N9	5.66	115.93	113.10
31	BA	795	C	C5-C6-N1	-5.66	118.17	121.00
31	BA	972	G	N3-C4-C5	5.66	131.43	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	117	G	C5-C6-O6	-5.66	125.20	128.60
1	CA	906	G	N1-C6-O6	5.66	123.30	119.90
31	DA	1210	A	C6-C5-N7	-5.66	128.34	132.30
31	DA	2485	G	C5-C6-O6	-5.66	125.20	128.60
31	BA	955	C	C6-N1-C2	5.66	122.56	120.30
31	BA	1635	G	N1-C6-O6	5.66	123.30	119.90
31	BA	2544	G	N3-C2-N2	-5.66	115.94	119.90
31	DA	132	G	C2-N3-C4	-5.66	109.07	111.90
31	DA	1315	C	C5-C6-N1	-5.66	118.17	121.00
31	DA	1782	C	N1-C2-O2	-5.66	115.51	118.90
31	DA	1612	C	C6-N1-C2	5.65	122.56	120.30
31	BA	1291	C	N3-C4-C5	5.65	124.16	121.90
31	BA	1698	A	C4-C5-N7	5.65	113.53	110.70
31	BA	1617	C	C2-N1-C1'	-5.65	112.58	118.80
43	DR	4	LEU	CB-CG-CD1	5.65	120.60	111.00
31	BA	378	C	N3-C4-C5	5.65	124.16	121.90
31	BA	2067	G	N3-C4-C5	-5.65	125.78	128.60
31	DA	1142(A)	A	N3-C4-C5	5.65	130.75	126.80
31	DA	72	U	C5-C6-N1	-5.64	119.88	122.70
31	BA	2041	U	C5-C6-N1	-5.64	119.88	122.70
31	BA	2260	C	C5-C6-N1	-5.64	118.18	121.00
32	BB	101	G	N7-C8-N9	-5.64	110.28	113.10
31	BA	102	G	C3'-C2'-C1'	5.64	106.01	101.50
31	BA	663	G	N3-C4-N9	-5.64	122.61	126.00
31	BA	1332	G	C5-C6-N1	-5.64	108.68	111.50
1	AA	822	C	C6-N1-C2	5.64	122.56	120.30
31	BA	528	A	C6-N1-C2	5.64	121.98	118.60
31	BA	690	G	C8-N9-C4	5.64	108.66	106.40
31	BA	1890	A	N1-C6-N6	-5.64	115.22	118.60
31	DA	507	A	C8-N9-C4	5.64	108.06	105.80
31	BA	2015	A	C8-N9-C4	5.64	108.06	105.80
31	DA	835	A	C8-N9-C4	5.64	108.06	105.80
31	BA	236	C	C5-C6-N1	-5.64	118.18	121.00
31	BA	1657	C	C2-N3-C4	-5.64	117.08	119.90
31	DA	1030	G	N1-C6-O6	5.64	123.28	119.90
31	BA	2258	C	C5-C4-N4	-5.63	116.26	120.20
31	BA	2518	A	N1-C6-N6	5.63	121.98	118.60
31	BA	2579	C	C5-C6-N1	-5.63	118.18	121.00
31	DA	2037	G	N1-C2-N3	5.63	127.28	123.90
31	BA	2678	C	C6-N1-C2	5.63	122.55	120.30
31	DA	1022	G	N9-C4-C5	5.63	107.65	105.40
31	BA	2822	G	N3-C4-C5	5.63	131.42	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	29	U	N3-C4-O4	5.63	123.34	119.40
31	DA	1284	A	N1-C6-N6	5.63	121.98	118.60
31	DA	2558	C	N3-C4-C5	5.63	124.15	121.90
32	DB	101	G	C8-N9-C4	5.63	108.65	106.40
31	BA	2700	C	C5-C6-N1	-5.63	118.19	121.00
31	DA	1258	C	N3-C4-C5	5.62	124.15	121.90
31	DA	1708	C	C5-C6-N1	-5.62	118.19	121.00
31	DA	2723	C	C5-C6-N1	-5.62	118.19	121.00
31	BA	205	G	C5-C6-O6	-5.62	125.22	128.60
31	DA	44	G	C8-N9-C4	-5.62	104.15	106.40
31	BA	272	G	C8-N9-C4	-5.62	104.15	106.40
31	BA	2394	C	C2-N1-C1'	-5.62	112.62	118.80
31	DA	671	C	C2-N3-C4	-5.62	117.09	119.90
31	DA	1314	C	C5-C4-N4	-5.62	116.27	120.20
31	BA	729	G	N1-C2-N2	5.62	121.26	116.20
31	DA	1235	G	C8-N9-C4	5.62	108.65	106.40
32	BB	37	C	C2-N1-C1'	5.62	124.98	118.80
31	DA	472	A	C4'-C3'-C2'	5.62	108.22	102.60
31	DA	529	A	C8-N9-C4	-5.62	103.55	105.80
1	AA	260	G	N1-C6-O6	5.61	123.27	119.90
31	BA	220	G	C2-N3-C4	-5.61	109.09	111.90
31	BA	1291	C	C2-N3-C4	-5.61	117.09	119.90
31	BA	1939	U	C5-C4-O4	-5.61	122.53	125.90
31	BA	272(C)	G	C8-N9-C4	5.61	108.64	106.40
31	BA	1651	G	C5-C6-O6	-5.61	125.24	128.60
31	DA	246	C	C6-N1-C2	5.61	122.54	120.30
31	BA	94(A)	G	N3-C2-N2	-5.60	115.98	119.90
31	DA	2008	C	C2-N3-C4	-5.60	117.10	119.90
31	DA	2517	C	C6-N1-C2	5.60	122.54	120.30
31	BA	665	C	C5-C6-N1	-5.60	118.20	121.00
31	BA	140	G	C5-C6-O6	5.60	131.96	128.60
31	BA	2723	C	C5-C6-N1	-5.60	118.20	121.00
31	BA	762	U	C6-N1-C1'	-5.60	113.37	121.20
32	BB	103	G	C4-N9-C1'	-5.60	119.22	126.50
31	BA	656	G	N3-C4-C5	-5.59	125.80	128.60
31	DA	1322	A	C2-N3-C4	-5.59	107.80	110.60
31	DA	1325	G	C5-C6-O6	-5.59	125.24	128.60
31	DA	2657	A	N1-C6-N6	5.59	121.96	118.60
31	BA	693	C	C5-C6-N1	-5.59	118.20	121.00
31	BA	774	A	N1-C2-N3	5.59	132.10	129.30
31	DA	1270	C	C5-C6-N1	-5.59	118.20	121.00
31	DA	2625	G	C5-N7-C8	-5.59	101.50	104.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2060	A	C2-N3-C4	-5.59	107.80	110.60
31	BA	2731	G	C5-C6-O6	-5.59	125.25	128.60
31	BA	1791	A	C2-N3-C4	-5.59	107.81	110.60
31	DA	339	U	C6-N1-C2	5.59	124.35	121.00
31	DA	2053	G	N1-C6-O6	5.59	123.25	119.90
31	DA	2692	C	C5-C6-N1	-5.59	118.20	121.00
31	BA	2023	G	N1-C6-O6	5.59	123.25	119.90
31	DA	1324	G	C5-C6-O6	-5.59	125.25	128.60
31	BA	450	G	C5-C6-O6	5.59	131.95	128.60
31	BA	1965	C	C6-N1-C2	5.59	122.53	120.30
31	DA	2762	G	N3-C4-N9	-5.59	122.65	126.00
31	DA	2495	G	C2-N3-C4	-5.58	109.11	111.90
31	BA	488	G	N1-C6-O6	-5.58	116.55	119.90
31	BA	1336	A	N1-C6-N6	-5.58	115.25	118.60
31	DA	1204	A	C8-N9-C1'	-5.58	117.65	127.70
31	BA	1559	G	N1-C6-O6	5.58	123.25	119.90
31	BA	2569	G	C6-C5-N7	-5.58	127.05	130.40
31	DA	2567	G	C8-N9-C4	5.58	108.63	106.40
31	BA	1934	C	C4'-C3'-C2'	5.58	108.18	102.60
31	DA	601	C	C6-N1-C2	5.58	122.53	120.30
31	DA	1248	G	C8-N9-C4	5.58	108.63	106.40
31	DA	859	G	C4-N9-C1'	-5.58	119.25	126.50
31	DA	1796	U	C5-C6-N1	-5.58	119.91	122.70
31	BA	706	A	C8-N9-C4	5.58	108.03	105.80
31	BA	246	C	C6-N1-C2	5.58	122.53	120.30
31	BA	1555	G	N1-C6-O6	5.58	123.25	119.90
1	CA	892	A	N1-C6-N6	5.58	121.95	118.60
31	DA	2329	G	C4-N9-C1'	-5.58	119.25	126.50
31	BA	1258	C	N3-C2-O2	5.57	125.80	121.90
31	BA	1996	C	N3-C4-C5	5.57	124.13	121.90
31	DA	991	C	C5-C6-N1	-5.57	118.21	121.00
31	DA	2042	A	N7-C8-N9	-5.57	111.01	113.80
31	DA	1270	C	C6-N1-C2	5.57	122.53	120.30
31	BA	1895	C	C6-N1-C2	5.57	122.53	120.30
31	DA	774	A	N1-C2-N3	5.57	132.09	129.30
31	DA	844	C	C6-N1-C2	5.57	122.53	120.30
31	DA	1159	U	N3-C2-O2	5.57	126.10	122.20
31	DA	2495	G	N3-C4-C5	5.57	131.38	128.60
31	BA	814	C	N3-C2-O2	5.57	125.80	121.90
32	BB	99	G	C8-N9-C4	5.57	108.63	106.40
31	BA	1403	C	C6-N1-C2	5.57	122.53	120.30
31	BA	1772	G	C5-C6-O6	-5.57	125.26	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2426	A	C6-C5-N7	-5.57	128.40	132.30
31	DA	382	G	N1-C6-O6	5.57	123.24	119.90
31	DA	1786	A	C5-C6-N6	-5.57	119.25	123.70
31	BA	976	C	C6-N1-C2	5.57	122.53	120.30
31	BA	2762	G	N3-C4-N9	-5.57	122.66	126.00
31	DA	2439	A	C5-N7-C8	-5.57	101.12	103.90
31	BA	1779	U	C2-N3-C4	-5.56	123.66	127.00
31	BA	2532	G	N1-C6-O6	5.56	123.24	119.90
31	BA	398	G	C8-N9-C4	5.56	108.62	106.40
31	BA	832	G	N3-C4-N9	-5.56	122.67	126.00
31	BA	771	G	N9-C4-C5	-5.56	103.18	105.40
31	BA	866	A	C4-N9-C1'	5.56	136.30	126.30
31	BA	1216	G	C5-C6-N1	-5.56	108.72	111.50
31	BA	2361	A	N1-C6-N6	5.55	121.93	118.60
31	DA	110	G	C8-N9-C4	5.55	108.62	106.40
31	DA	201	C	N1-C2-O2	-5.55	115.57	118.90
31	DA	498	G	N7-C8-N9	-5.55	110.32	113.10
31	BA	945	A	C6-C5-N7	-5.55	128.41	132.30
31	BA	1310	G	C5-C6-O6	-5.55	125.27	128.60
32	BB	76	G	N1-C6-O6	5.55	123.23	119.90
31	DA	517	C	N1-C2-O2	-5.55	115.57	118.90
31	DA	748	G	C8-N9-C1'	5.55	134.22	127.00
31	BA	1315	C	N3-C2-O2	-5.55	118.02	121.90
31	DA	2540	C	N1-C2-O2	-5.55	115.57	118.90
31	BA	202	U	N1-C2-N3	-5.55	111.57	114.90
31	DA	1673	U	N3-C2-O2	-5.55	118.32	122.20
31	DA	2259	G	N3-C4-C5	5.55	131.37	128.60
32	DB	103	G	N3-C4-C5	5.55	131.37	128.60
31	BA	748	G	C4-N9-C1'	-5.55	119.29	126.50
31	BA	2360	A	C6-C5-N7	-5.55	128.42	132.30
31	DA	671	C	N1-C2-O2	-5.55	115.57	118.90
31	DA	2766	G	C4-C5-N7	5.55	113.02	110.80
31	BA	2614	A	C8-N9-C4	5.54	108.02	105.80
31	DA	190	A	N9-C4-C5	-5.54	103.58	105.80
31	DA	795	C	C6-N1-C2	5.54	122.52	120.30
31	BA	2291	U	C2-N1-C1'	-5.54	111.05	117.70
31	BA	2448	A	C8-N9-C4	5.54	108.02	105.80
31	BA	2820	A	C2-N3-C4	-5.54	107.83	110.60
1	CA	880	C	C6-N1-C2	5.54	122.52	120.30
31	DA	529	A	C5-N7-C8	-5.54	101.13	103.90
31	DA	2499	C	C6-N1-C1'	-5.54	114.15	120.80
31	BA	131	G	C4-C5-N7	5.54	113.02	110.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	409	C	N3-C2-O2	5.54	125.78	121.90
31	BA	1204	A	C5-N7-C8	-5.54	101.13	103.90
31	BA	2502	G	C5-C6-O6	-5.54	125.28	128.60
31	DA	2766	G	N1-C6-O6	5.54	123.22	119.90
31	BA	2426	A	N1-C6-N6	5.54	121.92	118.60
31	BA	506	G	C2-N3-C4	-5.54	109.13	111.90
31	BA	2531	A	C2-N3-C4	-5.54	107.83	110.60
31	DA	1496	A	C8-N9-C4	-5.54	103.59	105.80
31	BA	204	A	C5-C6-N1	5.53	120.47	117.70
31	BA	759	G	N9-C4-C5	-5.53	103.19	105.40
31	BA	1544	A	N9-C1'-C2'	5.53	121.19	114.00
31	BA	1971	A	C8-N9-C4	5.53	108.01	105.80
31	DA	1497	U	N1-C2-N3	-5.53	111.58	114.90
31	DA	2051	A	N1-C2-N3	5.53	132.06	129.30
31	DA	2383	G	N1-C2-N3	5.53	127.22	123.90
31	DA	803	U	C5-C4-O4	-5.53	122.58	125.90
31	DA	1189	A	C8-N9-C4	5.53	108.01	105.80
31	BA	2766	G	C8-N9-C1'	-5.53	119.81	127.00
41	BP	41	ARG	N-CA-C	-5.53	96.08	111.00
41	BP	52	GLU	N-CA-C	5.53	125.92	111.00
31	DA	639	U	C5-C6-N1	-5.53	119.94	122.70
31	BA	2841	C	N3-C4-C5	5.52	124.11	121.90
31	DA	805	G	C4-C5-N7	5.52	113.01	110.80
31	DA	1998	G	C2-N3-C4	-5.52	109.14	111.90
31	BA	567	A	N1-C6-N6	5.52	121.91	118.60
31	BA	2033	A	N7-C8-N9	-5.52	111.04	113.80
31	DA	1141	U	C5-C6-N1	-5.52	119.94	122.70
31	BA	2427	C	C5-C6-N1	-5.52	118.24	121.00
31	DA	1891	G	N7-C8-N9	-5.52	110.34	113.10
31	DA	2501	C	C6-N1-C1'	5.52	127.42	120.80
31	BA	71	A	C2-N3-C4	-5.52	107.84	110.60
31	BA	2713	A	N7-C8-N9	5.52	116.56	113.80
31	DA	190	A	C8-N9-C4	5.52	108.01	105.80
31	DA	2238	G	C8-N9-C4	-5.52	104.19	106.40
31	DA	2517	C	N3-C4-C5	5.52	124.11	121.90
31	BA	574	C	C2-N1-C1'	-5.52	112.73	118.80
31	BA	2404	C	C6-N1-C2	5.52	122.51	120.30
31	DA	937	U	C6-N1-C2	5.52	124.31	121.00
31	BA	123	G	N7-C8-N9	-5.51	110.34	113.10
31	BA	2527	C	N3-C4-N4	5.51	121.86	118.00
31	BA	2662	A	N9-C1'-C2'	5.51	121.17	114.00
31	BA	195	A	N1-C6-N6	5.51	121.91	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	207	A	N3-C4-C5	5.51	130.66	126.80
31	BA	1793	C	N1-C2-O2	-5.51	115.59	118.90
31	BA	2005	A	C4-C5-N7	5.51	113.46	110.70
31	BA	2071	A	C8-N9-C4	5.51	108.00	105.80
31	BA	2608	G	C4-C5-N7	-5.51	108.59	110.80
31	BA	2617	C	N3-C4-C5	5.51	124.10	121.90
31	DA	1597	A	C5-N7-C8	5.51	106.66	103.90
31	BA	500	G	C4-C5-N7	-5.51	108.60	110.80
31	DA	1019	U	N1-C2-O2	-5.51	118.94	122.80
31	DA	1275	A	N9-C4-C5	-5.51	103.60	105.80
31	BA	1256	G	C4-N9-C1'	5.51	133.66	126.50
31	DA	94(A)	G	N3-C2-N2	-5.51	116.05	119.90
31	DA	771	G	N9-C4-C5	-5.51	103.20	105.40
31	DA	805	G	C6-C5-N7	-5.51	127.10	130.40
31	BA	2471	C	C6-N1-C2	-5.50	118.10	120.30
1	CA	108	G	C4-N9-C1'	5.50	133.65	126.50
31	DA	459	U	N3-C4-O4	-5.50	115.55	119.40
31	DA	1324	G	N1-C6-O6	5.50	123.20	119.90
31	DA	1308	A	N1-C2-N3	5.50	132.05	129.30
31	BA	613	G	N3-C4-N9	-5.50	122.70	126.00
31	DA	1631	C	C6-N1-C2	5.50	122.50	120.30
31	DA	2253	G	C6-C5-N7	-5.50	127.10	130.40
31	BA	1241	A	C6-C5-N7	-5.50	128.45	132.30
31	BA	1814	G	C5-C6-N1	-5.50	108.75	111.50
31	BA	947	G	N1-C6-O6	5.49	123.20	119.90
31	DA	2043	C	C2-N3-C4	-5.49	117.15	119.90
36	BG	34	LEU	CA-CB-CG	5.49	127.93	115.30
31	BA	783	A	C5-C6-N1	-5.49	114.95	117.70
31	DA	1293	C	N3-C4-C5	5.49	124.10	121.90
31	DA	2061	G	C8-N9-C4	5.49	108.60	106.40
31	DA	2577	A	N1-C6-N6	5.49	121.89	118.60
1	AA	320	C	N3-C2-O2	5.49	125.74	121.90
31	BA	382	G	C5-C6-N1	-5.49	108.75	111.50
31	BA	968	G	N3-C4-C5	5.49	131.34	128.60
31	BA	2226	C	C5-C6-N1	-5.49	118.25	121.00
31	BA	139(A)	G	C5-N7-C8	-5.49	101.56	104.30
31	DA	832	G	N3-C4-C5	5.49	131.34	128.60
31	BA	2499	C	C2-N1-C1'	5.48	124.83	118.80
31	BA	2253	G	N1-C6-O6	5.48	123.19	119.90
31	BA	2598	A	C8-N9-C4	5.48	107.99	105.80
31	DA	798	G	C2-N3-C4	-5.48	109.16	111.90
31	BA	538	G	C5-C6-N1	-5.48	108.76	111.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	148	C	N3-C4-C5	5.48	124.09	121.90
31	DA	530	G	N1-C6-O6	-5.48	116.61	119.90
31	DA	1564	C	C5-C6-N1	-5.48	118.26	121.00
31	DA	2007	C	N1-C2-O2	-5.48	115.61	118.90
31	BA	1962	C	C6-N1-C2	-5.48	118.11	120.30
31	BA	2394	C	N3-C4-N4	-5.48	114.16	118.00
31	DA	1320	C	C4-C5-C6	5.48	120.14	117.40
31	BA	94(A)	G	C5-C6-O6	-5.48	125.31	128.60
31	BA	669	G	C8-N9-C4	5.48	108.59	106.40
27	B5	4	HIS	C-N-CD	5.48	139.90	128.40
31	BA	558	G	N7-C8-N9	-5.47	110.36	113.10
31	DA	246	C	C5-C6-N1	-5.47	118.26	121.00
31	DA	389	G	N9-C4-C5	-5.47	103.21	105.40
31	DA	1529	G	C4-N9-C1'	5.47	133.62	126.50
31	BA	1561	G	N1-C6-O6	5.47	123.18	119.90
31	BA	2676	C	C6-N1-C2	5.47	122.49	120.30
31	DA	189	G	N1-C6-O6	5.47	123.18	119.90
31	DA	565	C	C6-N1-C2	5.47	122.49	120.30
31	DA	2737	G	C5-C6-O6	-5.47	125.32	128.60
31	DA	2392	A	N1-C6-N6	5.47	121.88	118.60
31	DA	2816	C	N1-C2-O2	-5.47	115.62	118.90
31	BA	730	C	C2-N3-C4	-5.47	117.17	119.90
31	DA	2676	C	C6-N1-C2	5.47	122.49	120.30
31	BA	1279	G	N1-C6-O6	-5.47	116.62	119.90
31	DA	2392	A	C5-C6-N1	-5.47	114.97	117.70
32	DB	76	G	N3-C4-C5	5.47	131.33	128.60
1	AA	108	G	C4-N9-C1'	5.46	133.60	126.50
31	BA	244	A	C5-C6-N6	-5.46	119.33	123.70
31	BA	1958	C	C6-N1-C2	5.46	122.49	120.30
1	CA	241	C	N1-C2-O2	-5.46	115.62	118.90
31	BA	478	A	C6-N1-C2	-5.46	115.32	118.60
31	BA	1334	G	N1-C6-O6	5.46	123.18	119.90
31	BA	1614	A	C6-C5-N7	-5.46	128.48	132.30
31	BA	2691	C	N3-C2-O2	5.46	125.72	121.90
31	DA	2693	A	C8-N9-C4	5.46	107.98	105.80
31	BA	296	C	N3-C2-O2	5.46	125.72	121.90
31	DA	735	A	C8-N9-C4	5.46	107.98	105.80
31	DA	936	C	C6-N1-C2	5.46	122.48	120.30
31	DA	2363	C	N1-C2-O2	-5.46	115.62	118.90
31	BA	1232	G	C8-N9-C4	5.46	108.58	106.40
31	BA	1303	G	C8-N9-C4	5.46	108.58	106.40
32	DB	37	C	C5-C6-N1	5.46	123.73	121.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1161	C	N1-C2-O2	-5.46	115.63	118.90
31	BA	1263	U	C6-N1-C2	5.45	124.27	121.00
31	DA	676	A	C5-C6-N6	-5.45	119.34	123.70
31	DA	2488	A	C4-C5-C6	-5.45	114.27	117.00
31	BA	784	A	C8-N9-C1'	5.45	137.51	127.70
31	BA	1443	G	N7-C8-N9	5.45	115.83	113.10
31	BA	2010	G	C5-N7-C8	-5.45	101.58	104.30
31	BA	2577	A	N1-C6-N6	5.45	121.87	118.60
31	DA	272	G	N3-C4-N9	5.45	129.27	126.00
31	DA	378	C	C6-N1-C2	5.45	122.48	120.30
31	BA	1210	A	C6-C5-N7	-5.45	128.49	132.30
31	BA	2050	C	C2-N3-C4	-5.45	117.18	119.90
31	BA	2073	C	C5-C6-N1	-5.45	118.28	121.00
31	DA	2662	A	N9-C1'-C2'	5.45	121.08	114.00
31	BA	1510	G	N9-C4-C5	-5.45	103.22	105.40
31	BA	762	U	N1-C2-O2	5.45	126.61	122.80
31	BA	1237	A	N1-C6-N6	5.45	121.87	118.60
31	BA	1270	C	C2-N1-C1'	-5.45	112.81	118.80
31	DA	2466	C	C5-C4-N4	-5.45	116.39	120.20
31	BA	100	G	N3-C4-N9	-5.44	122.73	126.00
31	DA	2699	C	C5-C6-N1	-5.44	118.28	121.00
1	AA	117	G	C4-C5-N7	5.44	112.98	110.80
31	DA	2471	C	C2-N1-C1'	5.44	124.79	118.80
31	BA	774	A	N3-C4-N9	-5.44	123.05	127.40
31	BA	787	U	C5-C6-N1	-5.44	119.98	122.70
31	DA	2388	A	C8-N9-C4	5.44	107.98	105.80
31	BA	584	C	C5-C6-N1	-5.44	118.28	121.00
31	BA	2447	G	C4-C5-C6	5.44	122.06	118.80
31	BA	2639	A	C2-N3-C4	-5.44	107.88	110.60
31	DA	562	U	N3-C2-O2	5.44	126.01	122.20
31	DA	1627	G	C5-C6-N1	-5.44	108.78	111.50
31	DA	2259	G	N1-C6-O6	5.44	123.16	119.90
31	DA	2608	G	C4-C5-N7	-5.44	108.62	110.80
31	BA	1561	G	C5-C6-O6	-5.44	125.34	128.60
31	BA	2329	G	C4-N9-C1'	-5.44	119.43	126.50
31	BA	333	G	C4-N9-C1'	5.43	133.56	126.50
31	BA	614	U	C5-C4-O4	5.43	129.16	125.90
31	DA	1314	C	C6-N1-C1'	-5.43	114.28	120.80
31	BA	1647	G	N3-C2-N2	-5.43	116.10	119.90
31	BA	2201	C	C5-C6-N1	-5.43	118.28	121.00
31	BA	2825	C	N3-C2-O2	5.43	125.70	121.90
1	CA	7	G	C8-N9-C1'	5.43	134.06	127.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	409	C	C2-N1-C1'	-5.43	112.83	118.80
31	BA	244	A	C8-N9-C4	5.43	107.97	105.80
31	DA	2386	C	C5-C6-N1	-5.43	118.29	121.00
31	DA	2676	C	C5-C6-N1	-5.43	118.29	121.00
31	BA	83	G	N3-C2-N2	-5.43	116.10	119.90
31	BA	416	C	C2-N1-C1'	5.43	124.77	118.80
31	BA	1676	A	N7-C8-N9	-5.43	111.09	113.80
31	BA	2266	A	N1-C6-N6	5.43	121.86	118.60
31	BA	2763	G	C8-N9-C4	5.43	108.57	106.40
1	CA	893	C	N3-C4-C5	5.43	124.07	121.90
31	DA	574	C	C6-N1-C2	5.43	122.47	120.30
31	BA	783	A	C4-C5-N7	5.42	113.41	110.70
31	BA	2485	G	N9-C4-C5	-5.42	103.23	105.40
1	CA	1469	G	C5-C6-O6	-5.42	125.35	128.60
31	DA	665	C	C5-C6-N1	-5.42	118.29	121.00
31	BA	221	A	C3'-C2'-C1'	5.42	105.84	101.50
31	DA	798	G	C8-N9-C4	5.42	108.57	106.40
31	DA	1204	A	C5-C6-N1	-5.42	114.99	117.70
31	BA	542	C	C2-N1-C1'	5.42	124.76	118.80
31	BA	1021	A	C4-C5-C6	5.42	119.71	117.00
31	BA	1573	G	C2-N3-C4	-5.42	109.19	111.90
31	DA	1293	C	C2-N3-C4	-5.42	117.19	119.90
31	BA	1543	C	C5-C4-N4	-5.42	116.41	120.20
31	DA	2502	G	C5-N7-C8	-5.42	101.59	104.30
38	DI	88	ILE	CG1-CB-CG2	-5.42	99.48	111.40
1	AA	1485	U	C5-C6-N1	-5.42	119.99	122.70
31	BA	151	C	C2-N3-C4	-5.42	117.19	119.90
31	BA	1786	A	C4-C5-N7	5.42	113.41	110.70
31	BA	2439	A	C4-C5-N7	5.42	113.41	110.70
31	BA	220	G	C5-C6-N1	-5.41	108.79	111.50
31	BA	1653	G	C4-C5-C6	5.41	122.05	118.80
31	DA	1767	C	C4-C5-C6	5.41	120.11	117.40
31	DA	1779	U	N1-C2-N3	5.41	118.15	114.90
31	DA	211	A	N7-C8-N9	-5.41	111.09	113.80
31	BA	774	A	C3'-C2'-C1'	5.41	105.83	101.50
31	BA	1204	A	O4'-C1'-N9	5.41	112.53	108.20
31	BA	1256	G	C6-C5-N7	-5.41	127.15	130.40
31	DA	1049	C	C2-N1-C1'	5.41	124.75	118.80
31	DA	1316	U	C5-C6-N1	-5.41	120.00	122.70
31	DA	2081	C	N1-C2-O2	-5.41	115.65	118.90
31	BA	197	A	N1-C6-N6	5.41	121.84	118.60
31	DA	2621	A	C8-N9-C4	5.41	107.96	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1201	C	C5-C4-N4	-5.41	116.42	120.20
31	BA	1811	G	N3-C4-N9	-5.41	122.76	126.00
32	BB	96	U	C2-N1-C1'	-5.41	111.21	117.70
1	CA	909	A	C8-N9-C4	5.41	107.96	105.80
31	BA	1678	G	N7-C8-N9	5.40	115.80	113.10
31	BA	265	A	C5-N7-C8	-5.40	101.20	103.90
31	BA	1005	C	C6-N1-C2	5.40	122.46	120.30
31	DA	100	G	C6-C5-N7	5.40	133.64	130.40
31	BA	1194	A	C8-N9-C4	5.40	107.96	105.80
31	BA	1216	G	C8-N9-C1'	-5.40	119.98	127.00
31	DA	1495	A	C4-C5-N7	5.40	113.40	110.70
31	BA	955	C	C5-C6-N1	-5.40	118.30	121.00
31	BA	972	G	C2-N3-C4	-5.40	109.20	111.90
31	BA	1840	G	C6-C5-N7	-5.40	127.16	130.40
31	DA	621	A	C5-N7-C8	-5.40	101.20	103.90
31	DA	1408	C	N1-C2-O2	-5.40	115.66	118.90
31	BA	1303	G	C5-N7-C8	5.40	107.00	104.30
31	BA	2430	A	C5-N7-C8	-5.39	101.20	103.90
31	DA	618	C	C5-C6-N1	-5.39	118.30	121.00
31	DA	1853	A	C8-N9-C4	5.39	107.96	105.80
31	BA	2283	C	N1-C2-O2	-5.39	115.66	118.90
31	DA	528	A	C5-C6-N1	-5.39	115.00	117.70
31	DA	2540	C	C5-C6-N1	-5.39	118.31	121.00
31	BA	272	G	N3-C4-N9	5.39	129.23	126.00
31	BA	850	C	C5-C6-N1	-5.39	118.31	121.00
31	BA	1328	G	C8-N9-C1'	-5.39	120.00	127.00
31	BA	1990	C	C4-C5-C6	5.39	120.09	117.40
31	DA	1939	U	C5-C4-O4	-5.39	122.67	125.90
31	BA	2589	A	N7-C8-N9	-5.39	111.11	113.80
31	BA	2777	G	C5-C6-O6	-5.39	125.37	128.60
31	DA	1022	G	N3-C4-N9	-5.39	122.77	126.00
31	BA	663	G	N1-C6-O6	5.39	123.13	119.90
31	DA	1830	C	N3-C2-O2	5.39	125.67	121.90
31	DA	2292	C	N3-C4-C5	5.39	124.06	121.90
31	DA	2363	C	C5-C6-N1	-5.39	118.31	121.00
31	BA	568	U	N3-C4-O4	5.38	123.17	119.40
31	BA	1216	G	C6-C5-N7	-5.38	127.17	130.40
31	BA	2282	G	C8-N9-C1'	-5.38	120.00	127.00
31	DA	98	G	N7-C8-N9	-5.38	110.41	113.10
31	DA	530	G	N1-C2-N2	-5.38	111.35	116.20
31	DA	1270	C	C2-N1-C1'	-5.38	112.88	118.80
31	BA	1751	C	C6-N1-C2	5.38	122.45	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	892	A	N9-C4-C5	-5.38	103.65	105.80
31	BA	1502	C	C2-N1-C1'	5.38	124.72	118.80
31	BA	1614	A	C5-C6-N6	-5.38	119.39	123.70
31	BA	2699	C	C6-N1-C2	5.38	122.45	120.30
32	BB	60	C	C6-N1-C2	-5.38	118.15	120.30
31	BA	1049	C	C2-N1-C1'	5.38	124.72	118.80
31	BA	681	G	C2-N3-C4	-5.38	109.21	111.90
31	BA	1592	C	C6-N1-C2	5.38	122.45	120.30
31	DA	1291	C	C6-N1-C2	5.38	122.45	120.30
31	DA	2066	C	C5-C6-N1	-5.38	118.31	121.00
31	BA	1350	C	N1-C2-O2	-5.38	115.67	118.90
31	BA	386	G	N1-C2-N3	-5.37	120.68	123.90
31	BA	759	G	N3-C4-C5	5.37	131.29	128.60
31	BA	2442	C	N3-C4-N4	5.37	121.76	118.00
1	CA	921	U	N1-C2-N3	5.37	118.12	114.90
31	DA	133	C	C2-N3-C4	-5.37	117.22	119.90
31	BA	857	C	C6-N1-C2	-5.37	118.15	120.30
31	BA	2503	A	C5-C6-N1	5.37	120.38	117.70
31	BA	2858	C	C6-N1-C2	5.37	122.45	120.30
31	DA	2613	U	N3-C2-O2	5.37	125.96	122.20
31	BA	488	G	C4-C5-N7	-5.37	108.65	110.80
31	BA	527	C	N3-C4-C5	5.37	124.05	121.90
31	BA	698	C	N1-C2-O2	-5.37	115.68	118.90
31	DA	2540	C	C6-N1-C2	5.37	122.45	120.30
31	BA	220	G	N1-C6-O6	5.36	123.12	119.90
31	BA	1154	G	C4-C5-N7	5.36	112.95	110.80
31	DA	775	G	C2-N3-C4	-5.36	109.22	111.90
31	BA	874	G	C4-N9-C1'	-5.36	119.53	126.50
31	BA	2353	G	C8-N9-C4	5.36	108.54	106.40
1	CA	245	C	C6-N1-C2	5.36	122.44	120.30
32	DB	103	G	C8-N9-C4	5.36	108.54	106.40
1	CA	322	C	C6-N1-C2	5.36	122.44	120.30
31	BA	2346	A	C6-C5-N7	-5.35	128.55	132.30
31	BA	470	A	N1-C2-N3	5.35	131.98	129.30
31	DA	2061	G	C4-C5-N7	5.35	112.94	110.80
31	DA	2518	A	N1-C6-N6	5.35	121.81	118.60
31	DA	2742	C	C2-N3-C4	-5.35	117.22	119.90
31	BA	116	C	N1-C2-O2	-5.35	115.69	118.90
1	CA	889	A	C8-N9-C4	5.35	107.94	105.80
31	BA	789	A	C8-N9-C4	5.35	107.94	105.80
31	BA	2014	A	C8-N9-C4	5.35	107.94	105.80
31	BA	2327	A	C8-N9-C4	5.35	107.94	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1049	C	C5-C6-N1	5.35	123.67	121.00
31	BA	2548	G	N1-C6-O6	5.35	123.11	119.90
31	DA	298	G	C5-C6-O6	-5.35	125.39	128.60
31	DA	574	C	N3-C2-O2	5.35	125.64	121.90
31	DA	1204	A	N7-C8-N9	5.35	116.47	113.80
31	DA	2711	A	C8-N9-C4	5.35	107.94	105.80
32	DB	37	C	C2-N1-C1'	5.35	124.68	118.80
31	BA	606	U	C5-C6-N1	-5.34	120.03	122.70
31	BA	774	A	N3-C4-C5	5.34	130.54	126.80
31	BA	1154	G	N1-C6-O6	5.34	123.11	119.90
31	BA	2518	A	C5-C6-N6	-5.34	119.42	123.70
31	DA	2014	A	N1-C6-N6	5.34	121.81	118.60
31	DA	2430	A	C5-C6-N1	-5.34	115.03	117.70
31	DA	2605	U	C5-C4-O4	5.34	129.10	125.90
31	BA	114	U	C2-N1-C1'	5.34	124.11	117.70
32	BB	104	U	N3-C4-C5	5.34	117.80	114.60
1	CA	921	U	C6-N1-C2	-5.34	117.80	121.00
31	DA	2258	C	C6-N1-C2	5.34	122.44	120.30
31	BA	246	C	N3-C2-O2	5.34	125.64	121.90
31	BA	2766	G	C6-C5-N7	-5.34	127.20	130.40
31	DA	647	G	N7-C8-N9	5.34	115.77	113.10
31	BA	195	A	C2-N3-C4	-5.33	107.93	110.60
31	BA	266	G	N1-C6-O6	5.33	123.10	119.90
31	DA	1676	A	C2-N3-C4	-5.33	107.93	110.60
31	BA	1253	A	N7-C8-N9	-5.33	111.13	113.80
31	BA	2376	A	C6-C5-N7	-5.33	128.57	132.30
32	DB	48	A	C8-N9-C4	5.33	107.93	105.80
31	BA	1213	A	N7-C8-N9	5.33	116.47	113.80
31	BA	1822	G	C8-N9-C4	5.33	108.53	106.40
31	DA	729	G	C5-C6-O6	-5.33	125.40	128.60
31	DA	866	A	C4-N9-C1'	5.33	135.90	126.30
31	DA	975(A)	G	C4-C5-N7	5.33	112.93	110.80
31	DA	783	A	N1-C6-N6	5.33	121.80	118.60
31	DA	1201	C	C2-N3-C4	-5.33	117.23	119.90
31	DA	1632	A	N1-C6-N6	5.33	121.80	118.60
31	DA	1764	G	N3-C4-N9	-5.33	122.80	126.00
31	BA	139(A)	G	C8-N9-C4	-5.33	104.27	106.40
31	BA	686	G	N1-C6-O6	5.33	123.10	119.90
31	BA	1428	C	N3-C4-N4	-5.33	114.27	118.00
31	DA	427	U	C6-N1-C2	5.33	124.20	121.00
31	DA	848	G	C4-N9-C1'	5.33	133.43	126.50
31	DA	1131	G	N7-C8-N9	-5.33	110.44	113.10

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1258	C	C5-C6-N1	-5.33	118.34	121.00
31	DA	1228	G	C8-N9-C4	5.33	108.53	106.40
31	BA	1158	C	C6-N1-C2	5.32	122.43	120.30
31	BA	1266	G	N9-C4-C5	-5.32	103.27	105.40
31	DA	1305	C	N1-C2-O2	-5.32	115.71	118.90
31	DA	650	C	N1-C2-O2	5.32	122.09	118.90
31	DA	2466	C	N3-C2-O2	5.32	125.62	121.90
31	BA	1021	A	C4-C5-N7	5.32	113.36	110.70
31	BA	1609	A	N1-C2-N3	5.32	131.96	129.30
31	DA	2775	A	C8-N9-C4	5.32	107.93	105.80
31	BA	2319	G	N3-C4-C5	-5.32	125.94	128.60
31	BA	848	G	N9-C4-C5	-5.32	103.27	105.40
31	BA	1616	A	C6-C5-N7	-5.32	128.58	132.30
31	BA	2017	U	C4-C5-C6	5.32	122.89	119.70
31	BA	2469	A	C8-N9-C4	-5.32	103.67	105.80
32	DB	85	G	C5-C6-O6	-5.32	125.41	128.60
31	BA	1229	G	C2-N3-C4	-5.32	109.24	111.90
31	DA	2036	C	N3-C4-N4	5.31	121.72	118.00
31	DA	2078	C	C6-N1-C2	5.31	122.42	120.30
31	DA	2702	U	C5-C6-N1	-5.31	120.04	122.70
31	BA	2063	C	C5-C4-N4	5.31	123.92	120.20
31	DA	1252	G	C4-N9-C1'	-5.31	119.60	126.50
1	AA	818	G	C4-C5-N7	-5.31	108.68	110.80
31	BA	2482	G	C8-N9-C1'	-5.31	120.10	127.00
31	BA	796	C	C5-C6-N1	-5.31	118.35	121.00
31	DA	1779	U	C6-N1-C1'	5.31	128.63	121.20
31	BA	1786	A	N7-C8-N9	5.30	116.45	113.80
31	DA	148	C	C5-C6-N1	-5.30	118.35	121.00
31	DA	1241	A	C6-C5-N7	-5.30	128.59	132.30
31	DA	2006	C	C6-N1-C2	5.30	122.42	120.30
31	DA	2498	C	C2-N1-C1'	-5.30	112.97	118.80
31	BA	2560	C	N1-C2-O2	-5.30	115.72	118.90
31	DA	2253	G	C8-N9-C1'	-5.30	120.11	127.00
1	AA	810	C	N3-C4-C5	5.30	124.02	121.90
31	BA	151	C	C5-C6-N1	-5.30	118.35	121.00
31	DA	2499	C	N1-C2-O2	5.30	122.08	118.90
32	DB	102	A	C8-N9-C4	5.30	107.92	105.80
1	AA	7	G	C4-N9-C1'	-5.30	119.61	126.50
31	DA	1498	C	C6-N1-C2	5.30	122.42	120.30
31	DA	330	A	C5-N7-C8	-5.30	101.25	103.90
31	BA	409	C	C5-C6-N1	-5.30	118.35	121.00
31	BA	1221	C	C6-N1-C2	5.30	122.42	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2681	C	C5-C4-N4	5.30	123.91	120.20
31	DA	975(A)	G	C8-N9-C4	5.30	108.52	106.40
31	DA	1790	C	C2-N1-C1'	-5.30	112.97	118.80
31	BA	253	C	N1-C2-O2	-5.29	115.72	118.90
31	BA	2678	C	C5-C6-N1	-5.29	118.35	121.00
1	CA	741	G	C8-N9-C4	5.29	108.52	106.40
31	DA	190	A	N1-C6-N6	5.29	121.77	118.60
31	DA	728	G	N1-C6-O6	5.29	123.07	119.90
31	BA	129	C	C6-N1-C1'	-5.29	114.45	120.80
31	BA	870	A	N7-C8-N9	-5.29	111.16	113.80
31	BA	1897	G	N1-C6-O6	5.29	123.07	119.90
31	BA	2615	U	N3-C4-C5	5.29	117.77	114.60
31	DA	1295	C	C6-N1-C2	5.29	122.42	120.30
31	DA	1552	G	C8-N9-C4	5.29	108.52	106.40
31	DA	1565	C	C5-C6-N1	-5.29	118.36	121.00
31	BA	523	C	N1-C2-O2	-5.29	115.73	118.90
31	DA	1496	A	C6-C5-N7	-5.29	128.60	132.30
31	BA	2628	C	C5-C6-N1	-5.28	118.36	121.00
31	DA	2089	U	C5-C6-N1	-5.28	120.06	122.70
31	DA	2531	A	N7-C8-N9	-5.28	111.16	113.80
31	BA	1443	G	C5-C6-O6	-5.28	125.43	128.60
31	BA	1763	G	C8-N9-C4	5.28	108.51	106.40
31	BA	1786	A	N1-C6-N6	5.28	121.77	118.60
31	BA	803	U	C4-C5-C6	5.28	122.87	119.70
31	BA	2095	C	C6-N1-C2	5.28	122.41	120.30
31	BA	2549	G	N3-C2-N2	-5.28	116.21	119.90
31	DA	600	G	N3-C4-C5	5.28	131.24	128.60
31	DA	1221	C	C6-N1-C2	5.28	122.41	120.30
31	DA	2282	G	C8-N9-C4	-5.28	104.29	106.40
31	DA	2075	U	N3-C4-O4	5.27	123.09	119.40
31	DA	2480	C	C6-N1-C2	5.27	122.41	120.30
31	BA	131	G	N3-C4-C5	5.27	131.24	128.60
31	BA	935	C	C6-N1-C2	5.27	122.41	120.30
51	BZ	110	GLY	N-CA-C	-5.27	99.92	113.10
31	DA	2253	G	C5-C6-O6	-5.27	125.44	128.60
31	DA	2436	G	N3-C2-N2	-5.27	116.21	119.90
31	DA	133	C	N3-C4-C5	5.27	124.01	121.90
31	DA	330	A	N1-C6-N6	5.27	121.76	118.60
31	DA	2699	C	C2-N3-C4	-5.27	117.27	119.90
31	DA	247	G	C8-N9-C4	5.27	108.51	106.40
31	DA	1608	A	N3-C4-C5	5.27	130.49	126.80
31	BA	671	C	N3-C4-C5	-5.27	119.79	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1774	C	C2-N3-C4	-5.27	117.27	119.90
31	BA	47	C	C2-N3-C4	-5.26	117.27	119.90
31	DA	744	G	N1-C6-O6	5.26	123.06	119.90
31	DA	1519	G	N7-C8-N9	5.26	115.73	113.10
31	DA	1421	G	C6-C5-N7	-5.26	127.24	130.40
31	DA	2818	G	N1-C6-O6	5.26	123.06	119.90
31	DA	975(A)	G	N9-C4-C5	-5.26	103.30	105.40
31	DA	2363	C	C6-N1-C2	5.26	122.40	120.30
31	BA	272	G	N1-C6-O6	-5.26	116.74	119.90
31	BA	792	G	N9-C4-C5	-5.26	103.30	105.40
31	BA	1972	A	C5-C6-N6	-5.26	119.49	123.70
31	DA	1210	A	C2-N3-C4	-5.26	107.97	110.60
31	DA	1332	G	C5-C6-N1	-5.26	108.87	111.50
31	DA	2455	G	C5-C6-O6	-5.26	125.44	128.60
31	DA	1495	A	N7-C8-N9	5.26	116.43	113.80
31	BA	788	A	N7-C8-N9	-5.25	111.17	113.80
31	DA	114	U	C2-N1-C1'	5.25	124.01	117.70
31	DA	468	G	C8-N9-C4	5.25	108.50	106.40
31	BA	15	G	N3-C4-C5	5.25	131.23	128.60
31	BA	226	G	N1-C6-O6	5.25	123.05	119.90
31	BA	500	G	N9-C4-C5	5.25	107.50	105.40
31	BA	2561	A	C2-N3-C4	-5.25	107.97	110.60
31	DA	199	A	C8-N9-C4	5.25	107.90	105.80
31	DA	1992	G	C8-N9-C4	-5.25	104.30	106.40
31	BA	121	G	N9-C4-C5	-5.25	103.30	105.40
31	BA	1557	C	N3-C4-C5	5.25	124.00	121.90
31	BA	2083	G	N9-C4-C5	-5.25	103.30	105.40
31	DA	416	C	C2-N1-C1'	5.25	124.58	118.80
31	DA	2504	U	C6-N1-C2	5.25	124.15	121.00
31	DA	459	U	C5-C4-O4	5.25	129.05	125.90
31	DA	491	G	C4-N9-C1'	-5.25	119.67	126.50
31	BA	817	C	N3-C2-O2	5.25	125.57	121.90
31	BA	1543	C	C6-N1-C2	5.25	122.40	120.30
1	CA	1466	C	C2-N1-C1'	-5.25	113.03	118.80
31	DA	1021	A	C4-C5-N7	5.25	113.32	110.70
31	DA	2830	G	C5-C6-O6	-5.25	125.45	128.60
31	BA	1183	G	C4-C5-N7	5.25	112.90	110.80
31	BA	2878	U	C6-N1-C2	-5.25	117.85	121.00
31	DA	2055	C	C6-N1-C2	5.25	122.40	120.30
31	BA	468	G	C8-N9-C4	5.25	108.50	106.40
31	BA	1928	A	C8-N9-C4	5.25	107.90	105.80
31	DA	757	U	C5-C6-N1	-5.25	120.08	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	795	C	C6-N1-C2	5.24	122.40	120.30
31	BA	1207	C	C4-C5-C6	5.24	120.02	117.40
31	DA	975	C	C5-C6-N1	-5.24	118.38	121.00
31	DA	2455	G	N1-C6-O6	5.24	123.05	119.90
32	DB	27	C	C6-N1-C2	-5.24	118.20	120.30
31	BA	448	U	N3-C4-O4	5.24	123.07	119.40
31	DA	671	C	C4-C5-C6	5.24	120.02	117.40
31	BA	192	C	C6-N1-C2	5.24	122.40	120.30
31	BA	613	G	N3-C2-N2	-5.24	116.23	119.90
31	BA	1968	G	C8-N9-C4	5.24	108.50	106.40
31	BA	2018	G	N1-C6-O6	5.24	123.04	119.90
31	DA	848	G	C8-N9-C1'	-5.24	120.19	127.00
31	DA	1379	A	O4'-C1'-C2'	5.24	112.32	107.60
31	DA	2724	C	N1-C2-O2	-5.24	115.76	118.90
31	BA	1303	G	N7-C8-N9	-5.24	110.48	113.10
31	BA	2395	C	C5-C4-N4	-5.24	116.53	120.20
31	BA	1300	U	C2-N1-C1'	5.24	123.98	117.70
31	BA	1987	G	N3-C2-N2	-5.24	116.23	119.90
31	BA	2766	G	N9-C4-C5	-5.24	103.31	105.40
1	AA	903	G	C5-C6-O6	-5.24	125.46	128.60
32	BB	81	G	C4-C5-N7	5.24	112.89	110.80
31	DA	796	C	C6-N1-C2	5.24	122.39	120.30
32	DB	37	C	C6-N1-C2	-5.24	118.21	120.30
31	BA	1790	C	C5-C6-N1	-5.23	118.38	121.00
31	BA	2593	U	N3-C4-C5	-5.23	111.46	114.60
31	DA	265	A	C5-N7-C8	-5.23	101.28	103.90
31	DA	1121	C	C5-C6-N1	-5.23	118.38	121.00
31	DA	1249	U	N1-C2-O2	-5.23	119.14	122.80
24	B2	55	ARG	N-CA-C	-5.23	96.87	111.00
31	BA	474	G	P-O3'-C3'	5.23	125.98	119.70
31	BA	71	A	C5-N7-C8	-5.23	101.28	103.90
31	DA	945	A	C6-C5-N7	-5.23	128.64	132.30
31	DA	2438	U	C6-N1-C2	5.23	124.14	121.00
31	BA	82	G	C4-C5-C6	5.23	121.94	118.80
31	BA	1380	G	N3-C4-C5	5.23	131.21	128.60
31	DA	1613	G	C8-N9-C1'	-5.23	120.20	127.00
31	BA	936	C	C6-N1-C2	5.23	122.39	120.30
31	DA	1322	A	C5-N7-C8	5.23	106.51	103.90
31	DA	2252	G	N9-C4-C5	-5.23	103.31	105.40
31	DA	734	A	C8-N9-C4	5.23	107.89	105.80
31	DA	2013	A	N7-C8-N9	-5.23	111.19	113.80
31	BA	110	G	C8-N9-C4	5.22	108.49	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1328	G	N3-C4-N9	5.22	129.13	126.00
31	DA	2059	A	C8-N9-C4	5.22	107.89	105.80
31	DA	2607	G	C5-C6-N1	-5.22	108.89	111.50
31	DA	2244	U	C5-C6-N1	-5.22	120.09	122.70
31	DA	2431	U	C5-C6-N1	-5.22	120.09	122.70
31	BA	927	G	C5-N7-C8	-5.22	101.69	104.30
31	DA	801	G	N3-C4-C5	5.22	131.21	128.60
31	DA	2066	C	C2-N3-C4	-5.22	117.29	119.90
31	DA	2253	G	C4-C5-N7	5.22	112.89	110.80
31	BA	517	C	N1-C2-O2	-5.22	115.77	118.90
31	BA	1615	C	C6-N1-C2	5.22	122.39	120.30
31	BA	1833	U	N1-C2-O2	-5.22	119.15	122.80
31	DA	441	U	C6-N1-C2	5.22	124.13	121.00
31	DA	979	G	N1-C6-O6	5.22	123.03	119.90
31	DA	2375	G	C8-N9-C4	5.22	108.49	106.40
31	BA	1843	C	C5-C6-N1	-5.22	118.39	121.00
31	BA	139(A)	G	C4-C5-N7	5.22	112.89	110.80
31	BA	1573	G	N3-C4-C5	5.22	131.21	128.60
31	DA	1544	A	N9-C1'-C2'	5.22	120.78	114.00
31	DA	2447	G	C5-C6-O6	-5.22	125.47	128.60
31	DA	84	A	N7-C8-N9	-5.21	111.19	113.80
31	DA	1555	G	C5-C6-O6	-5.21	125.47	128.60
31	BA	1248	G	C8-N9-C4	5.21	108.48	106.40
31	DA	627	A	C8-N9-C4	5.21	107.89	105.80
31	DA	2010	G	N1-C6-O6	5.21	123.03	119.90
31	BA	2231	C	N1-C2-O2	-5.21	115.77	118.90
31	DA	811	U	C2-N1-C1'	-5.21	111.45	117.70
31	DA	2036	C	C5-C4-N4	-5.21	116.55	120.20
31	BA	1154	G	C6-C5-N7	-5.21	127.27	130.40
31	BA	500	G	C5-C6-O6	5.21	131.72	128.60
31	BA	1314	C	C2-N1-C1'	5.21	124.53	118.80
31	BA	2030	A	C5-C6-N6	-5.21	119.53	123.70
31	BA	2260	C	N1-C2-O2	-5.21	115.78	118.90
31	DA	141	A	N7-C8-N9	5.21	116.40	113.80
31	DA	582	G	N1-C6-O6	5.21	123.03	119.90
31	DA	621	A	N1-C6-N6	5.21	121.72	118.60
31	DA	2444	G	N3-C2-N2	-5.21	116.25	119.90
31	DA	2644	G	N3-C4-C5	5.21	131.20	128.60
31	DA	937	U	N3-C2-O2	5.21	125.84	122.20
31	DA	1355	G	C5-C6-O6	-5.21	125.48	128.60
31	DA	2028	U	N3-C2-O2	5.21	125.84	122.20
31	BA	1692	U	C5-C6-N1	-5.21	120.10	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	2053	G	C5-C6-O6	-5.21	125.48	128.60
31	BA	1268	A	N1-C2-N3	5.20	131.90	129.30
31	BA	2510	C	N1-C2-O2	-5.20	115.78	118.90
31	DA	1631	C	N3-C2-O2	5.20	125.54	121.90
31	DA	1678	G	N1-C2-N2	-5.20	111.52	116.20
31	DA	1694	C	C2-N1-C1'	5.20	124.53	118.80
33	BD	104	TYR	CA-CB-CG	5.20	123.28	113.40
31	DA	27	G	N1-C2-N2	-5.20	111.52	116.20
42	BQ	82	ARG	NE-CZ-NH1	-5.20	117.70	120.30
31	DA	1304	C	N1-C2-O2	-5.20	115.78	118.90
31	DA	2714	G	C8-N9-C1'	-5.20	120.24	127.00
31	BA	838	C	C6-N1-C2	5.20	122.38	120.30
31	BA	2552	U	N3-C2-O2	5.20	125.84	122.20
1	CA	7	G	C4-N9-C1'	-5.20	119.74	126.50
31	DA	2329	G	C6-C5-N7	5.20	133.52	130.40
31	BA	2552	U	C5-C4-O4	-5.20	122.78	125.90
31	DA	1323	U	C6-N1-C2	5.20	124.12	121.00
31	DA	759	G	N1-C6-O6	5.20	123.02	119.90
31	DA	1291	C	N3-C4-C5	5.20	123.98	121.90
31	DA	1543	C	C4-C5-C6	-5.20	114.80	117.40
31	DA	1784	A	N1-C2-N3	5.20	131.90	129.30
31	BA	1558	A	C5-C6-N1	-5.19	115.10	117.70
31	BA	1608	A	N3-C4-N9	-5.19	123.25	127.40
31	DA	1624	G	C4-N9-C1'	-5.19	119.75	126.50
31	BA	2027	G	N7-C8-N9	5.19	115.70	113.10
31	BA	2447	G	C6-C5-N7	-5.19	127.28	130.40
31	BA	2572	A	N9-C4-C5	-5.19	103.72	105.80
31	BA	2573	C	C6-N1-C2	-5.19	118.22	120.30
31	DA	1798	U	C6-N1-C2	5.19	124.12	121.00
31	DA	2088	G	N3-C4-C5	5.19	131.20	128.60
31	BA	1313	U	N3-C4-O4	5.19	123.03	119.40
31	BA	1947	C	N1-C2-O2	5.19	122.01	118.90
31	BA	2447	G	C4-N9-C1'	-5.19	119.75	126.50
31	BA	450	G	C5-C6-N1	-5.19	108.91	111.50
31	BA	1260	G	C5-C6-N1	-5.19	108.91	111.50
31	BA	2699	C	C2-N3-C4	-5.19	117.31	119.90
31	DA	674	G	N3-C4-C5	5.19	131.19	128.60
31	DA	678	C	C2-N3-C4	-5.19	117.31	119.90
31	DA	783	A	C6-C5-N7	-5.19	128.67	132.30
31	DA	271(P)	C	C2-N1-C1'	5.18	124.50	118.80
31	BA	1552	G	N3-C4-N9	-5.18	122.89	126.00
31	DA	2439	A	C4-C5-N7	5.18	113.29	110.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	749	C	C6-N1-C2	5.18	122.37	120.30
51	DZ	110	GLY	N-CA-C	-5.18	100.15	113.10
31	BA	468	G	N7-C8-N9	-5.18	110.51	113.10
31	BA	622	G	N9-C4-C5	-5.18	103.33	105.40
31	DA	179	G	C8-N9-C4	5.18	108.47	106.40
31	DA	2330	G	N7-C8-N9	-5.18	110.51	113.10
31	BA	621	A	N7-C8-N9	5.18	116.39	113.80
31	BA	2421	G	N3-C2-N2	-5.18	116.28	119.90
31	BA	2731	G	N1-C6-O6	5.18	123.01	119.90
31	DA	481	G	N1-C6-O6	5.18	123.00	119.90
31	DA	1253	A	C5-C6-N6	-5.18	119.56	123.70
31	DA	1555	G	N1-C6-O6	5.18	123.01	119.90
31	DA	2361	A	C5-N7-C8	-5.18	101.31	103.90
31	DA	2778	A	N1-C2-N3	5.18	131.89	129.30
32	DB	101	G	N9-C4-C5	-5.18	103.33	105.40
31	BA	567	A	C2-N3-C4	-5.17	108.01	110.60
31	BA	945	A	O4'-C1'-N9	5.17	112.34	108.20
31	BA	1635	G	C5-C6-N1	-5.17	108.91	111.50
31	DA	810	U	C2-N3-C4	-5.17	123.89	127.00
31	DA	1984	G	N7-C8-N9	5.17	115.69	113.10
31	DA	1762	A	N7-C8-N9	5.17	116.39	113.80
31	BA	1189	A	C4-C5-N7	5.17	113.28	110.70
31	BA	1823	G	N1-C6-O6	5.17	123.00	119.90
31	BA	2447	G	N1-C6-O6	5.17	123.00	119.90
31	DA	1968	G	C4-C5-N7	5.17	112.87	110.80
31	BA	2575	C	N3-C2-O2	5.17	125.52	121.90
31	DA	102	G	C3'-C2'-C1'	5.17	105.64	101.50
31	DA	132	G	C5-C6-N1	-5.17	108.92	111.50
31	DA	435	C	N1-C2-O2	5.17	122.00	118.90
31	DA	2019	A	N1-C6-N6	5.17	121.70	118.60
27	B5	25	LEU	CB-CG-CD2	-5.17	102.21	111.00
31	BA	1496	A	C5-N7-C8	-5.17	101.32	103.90
31	BA	2587	A	N1-C2-N3	5.17	131.88	129.30
1	CA	925	G	C8-N9-C4	5.17	108.47	106.40
31	DA	2462	U	C6-N1-C2	5.17	124.10	121.00
31	BA	1223	G	N1-C6-O6	-5.17	116.80	119.90
31	BA	1310	G	N1-C6-O6	5.17	123.00	119.90
31	BA	1625	C	N3-C4-N4	-5.17	114.38	118.00
31	DA	1256	G	C5-C6-O6	-5.17	125.50	128.60
31	DA	1698	A	N3-C4-C5	5.17	130.42	126.80
31	DA	389	G	C8-N9-C4	5.17	108.47	106.40
33	DD	229	VAL	CB-CA-C	-5.17	101.59	111.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	892	A	C5-C6-N6	-5.16	119.57	123.70
31	BA	366	C	N1-C2-O2	-5.16	115.80	118.90
31	BA	409	C	N3-C4-C5	5.16	123.97	121.90
31	BA	1204	A	N7-C8-N9	5.16	116.38	113.80
1	AA	883	C	C6-N1-C2	-5.16	118.24	120.30
31	BA	201	C	C2-N3-C4	-5.16	117.32	119.90
31	BA	570	G	C2-N3-C4	-5.16	109.32	111.90
32	BB	27	C	C6-N1-C2	-5.16	118.24	120.30
31	BA	948	G	C5-C6-O6	-5.16	125.50	128.60
31	BA	1397	U	P-O3'-C3'	5.16	125.89	119.70
31	BA	2583	G	N1-C6-O6	5.16	123.00	119.90
31	DA	1928	A	N1-C6-N6	5.16	121.69	118.60
31	BA	528	A	N9-C4-C5	5.16	107.86	105.80
31	DA	2443	C	C6-N1-C2	5.16	122.36	120.30
31	DA	843	G	N7-C8-N9	-5.16	110.52	113.10
31	DA	975	C	C5-C4-N4	5.16	123.81	120.20
31	DA	1121	C	C6-N1-C2	5.16	122.36	120.30
31	DA	2552	U	C2-N3-C4	-5.15	123.91	127.00
31	BA	1678	G	N3-C4-C5	5.15	131.18	128.60
31	BA	2041	U	N1-C2-O2	-5.15	119.19	122.80
31	DA	1800	C	C2-N1-C1'	-5.15	113.13	118.80
31	BA	671	C	N1-C2-O2	-5.15	115.81	118.90
31	BA	2286	A	C8-N9-C4	-5.15	103.74	105.80
31	DA	1300	U	C2-N1-C1'	5.15	123.88	117.70
31	DA	2826	A	N1-C6-N6	-5.15	115.51	118.60
31	BA	2442	C	C5-C4-N4	-5.15	116.60	120.20
27	D5	51	TYR	CB-CG-CD2	-5.15	117.91	121.00
31	BA	668	G	C2-N3-C4	-5.15	109.33	111.90
31	BA	972	G	C8-N9-C4	5.15	108.46	106.40
31	BA	1925	C	N1-C2-O2	-5.15	115.81	118.90
32	BB	37	C	C6-N1-C2	-5.15	118.24	120.30
31	DA	788	A	N9-C4-C5	-5.15	103.74	105.80
31	DA	1616	A	C2-N3-C4	-5.15	108.03	110.60
31	DA	1797	C	C5-C6-N1	-5.15	118.43	121.00
31	BA	82	G	N1-C2-N3	5.15	126.99	123.90
30	B8	61	LEU	CA-CB-CG	-5.14	103.47	115.30
31	BA	2259	G	N1-C6-O6	5.14	122.99	119.90
31	DA	577	G	N7-C8-N9	-5.14	110.53	113.10
31	BA	251	A	N1-C6-N6	-5.14	115.51	118.60
31	BA	673	C	C5-C6-N1	-5.14	118.43	121.00
31	BA	956	G	N1-C6-O6	5.14	122.98	119.90
31	BA	2443	C	C2-N3-C4	-5.14	117.33	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	2019	A	C8-N9-C4	5.14	107.86	105.80
31	BA	71	A	C4-C5-N7	5.14	113.27	110.70
31	BA	2404	C	N3-C4-C5	5.14	123.96	121.90
31	BA	2569	G	N1-C6-O6	5.14	122.98	119.90
31	DA	678	C	N3-C2-O2	5.14	125.50	121.90
1	CA	55	A	N7-C8-N9	5.14	116.37	113.80
31	DA	2469	A	N1-C2-N3	5.14	131.87	129.30
32	DB	6	C	C6-N1-C2	5.14	122.36	120.30
31	BA	647	G	C8-N9-C4	-5.14	104.35	106.40
31	BA	1022	G	N3-C2-N2	-5.14	116.30	119.90
1	CA	922	G	N3-C4-C5	-5.14	126.03	128.60
31	DA	1570	A	C6-N1-C2	5.14	121.68	118.60
31	DA	2245	U	N3-C4-C5	-5.14	111.52	114.60
31	BA	866	A	C8-N9-C1'	-5.13	118.46	127.70
31	BA	2355	C	C6-N1-C1'	-5.13	114.64	120.80
31	BA	2831	G	N1-C6-O6	5.13	122.98	119.90
31	DA	2021	C	C5-C6-N1	-5.13	118.43	121.00
31	DA	2389	G	C8-N9-C1'	5.13	133.68	127.00
31	DA	2448	A	C5-C6-N1	5.13	120.27	117.70
31	BA	566	U	C6-N1-C2	5.13	124.08	121.00
31	DA	810	U	C6-N1-C2	5.13	124.08	121.00
31	DA	827	U	N1-C2-O2	-5.13	119.21	122.80
31	DA	528	A	C8-N9-C4	-5.13	103.75	105.80
31	DA	2242	G	N1-C6-O6	5.13	122.98	119.90
31	DA	2453	A	C8-N9-C4	5.13	107.85	105.80
31	BA	2067	G	C4-C5-N7	-5.13	108.75	110.80
32	DB	104	U	N3-C4-C5	5.13	117.68	114.60
1	AA	774	G	N1-C6-O6	5.13	122.98	119.90
31	BA	129	C	C2-N1-C1'	5.13	124.44	118.80
31	BA	1235	G	C2-N3-C4	-5.13	109.34	111.90
31	BA	1248	G	N9-C4-C5	-5.13	103.35	105.40
31	DA	736	C	C6-N1-C2	5.13	122.35	120.30
31	DA	1133	U	C5-C6-N1	-5.13	120.14	122.70
31	DA	2863	C	C6-N1-C2	5.13	122.35	120.30
1	AA	644	G	N3-C4-C5	5.12	131.16	128.60
31	BA	596	G	N7-C8-N9	-5.12	110.54	113.10
31	DA	1314	C	C2-N1-C1'	5.12	124.44	118.80
31	BA	481	G	N3-C4-N9	5.12	129.07	126.00
31	BA	1342	A	C5-C6-N6	-5.12	119.60	123.70
31	BA	2059	A	C5-N7-C8	-5.12	101.34	103.90
31	BA	2232	U	C2-N1-C1'	-5.12	111.55	117.70
23	D1	43	TYR	N-CA-C	-5.12	97.16	111.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	788	A	N1-C2-N3	5.12	131.86	129.30
31	BA	192	C	C5-C6-N1	-5.12	118.44	121.00
31	BA	2754	U	C6-N1-C2	5.12	124.07	121.00
31	BA	785	G	N3-C4-C5	5.12	131.16	128.60
31	BA	2476	A	C5-C6-N1	5.12	120.26	117.70
31	DA	2819	G	N3-C4-N9	-5.12	122.93	126.00
31	DA	979	G	N9-C4-C5	-5.12	103.35	105.40
31	BA	1200	C	C5-C6-N1	-5.12	118.44	121.00
31	BA	2430	A	C8-N9-C4	-5.12	103.75	105.80
31	BA	2456	C	C6-N1-C2	5.12	122.35	120.30
31	BA	1142(A)	A	N1-C6-N6	5.11	121.67	118.60
31	BA	2376	A	C8-N9-C4	5.11	107.85	105.80
31	BA	2822	G	C4-C5-N7	5.11	112.84	110.80
48	BW	19	LEU	CA-CB-CG	-5.11	103.54	115.30
31	DA	1972	A	N1-C6-N6	5.11	121.67	118.60
31	DA	2625	G	C5-C6-O6	-5.11	125.53	128.60
31	BA	2822	G	N3-C2-N2	-5.11	116.32	119.90
1	CA	1484	C	C6-N1-C2	5.11	122.34	120.30
31	DA	2829	C	C5-C6-N1	-5.11	118.44	121.00
31	BA	211	A	N1-C6-N6	5.11	121.67	118.60
31	BA	599	G	N7-C8-N9	-5.11	110.55	113.10
31	BA	673	C	C2-N3-C4	-5.11	117.34	119.90
31	BA	2673	G	N1-C6-O6	5.11	122.97	119.90
1	CA	108	G	C4-C5-N7	5.11	112.84	110.80
31	DA	1543	C	C5-C6-N1	5.11	123.56	121.00
1	AA	273	A	N1-C6-N6	5.11	121.67	118.60
31	BA	692	C	C6-N1-C2	5.11	122.34	120.30
31	BA	441	U	C5-C4-O4	-5.11	122.84	125.90
31	BA	772	C	N3-C4-C5	5.11	123.94	121.90
31	DA	2529	G	N3-C4-C5	5.11	131.15	128.60
31	BA	1998	G	N3-C2-N2	-5.11	116.33	119.90
31	BA	2439	A	N9-C4-C5	-5.11	103.76	105.80
1	CA	893	C	N1-C2-N3	-5.11	115.63	119.20
31	BA	1973	G	C2-N3-C4	-5.10	109.35	111.90
31	BA	2591	C	C2-N3-C4	-5.10	117.35	119.90
31	DA	1950	G	N1-C6-O6	5.10	122.96	119.90
31	BA	175	G	N7-C8-N9	5.10	115.65	113.10
31	DA	500	G	N7-C8-N9	-5.10	110.55	113.10
31	DA	2572	A	C2-N3-C4	-5.10	108.05	110.60
31	BA	233	A	N1-C2-N3	-5.10	126.75	129.30
46	BU	50	ARG	NE-CZ-NH2	-5.10	117.75	120.30
31	DA	795	C	N1-C2-O2	-5.10	115.84	118.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	1570	A	N3-C4-C5	5.10	130.37	126.80
31	BA	860	U	N3-C2-O2	-5.10	118.63	122.20
31	BA	2242	G	C8-N9-C4	5.10	108.44	106.40
31	BA	115	C	N3-C2-O2	5.10	125.47	121.90
31	DA	1328	G	C4-N9-C1'	5.10	133.12	126.50
31	DA	1596	A	N7-C8-N9	-5.10	111.25	113.80
31	DA	2283	C	N1-C2-O2	-5.10	115.84	118.90
31	BA	2230	G	N3-C4-C5	5.09	131.15	128.60
31	DA	751	A	C8-N9-C4	5.09	107.84	105.80
31	DA	1252	G	N3-C4-C5	5.09	131.15	128.60
31	BA	610	G	N7-C8-N9	-5.09	110.55	113.10
31	BA	2387	U	C2-N1-C1'	-5.09	111.59	117.70
31	BA	2570	G	C5-C6-N1	-5.09	108.95	111.50
31	DA	2081	C	C5-C6-N1	-5.09	118.45	121.00
31	DA	2317	C	N3-C2-O2	-5.09	118.33	121.90
31	BA	1617	C	N3-C2-O2	5.09	125.46	121.90
31	BA	2059	A	N1-C6-N6	5.09	121.66	118.60
31	BA	2345	G	N9-C4-C5	5.09	107.44	105.40
31	BA	2455	G	C4-N9-C1'	5.09	133.12	126.50
1	CA	922	G	N7-C8-N9	5.09	115.65	113.10
31	DA	2777	G	C5-C6-O6	-5.09	125.55	128.60
31	BA	1261	C	C2-N3-C4	-5.09	117.36	119.90
32	DB	96	U	C2-N1-C1'	-5.09	111.60	117.70
31	BA	859	G	C8-N9-C1'	5.08	133.61	127.00
31	BA	1977	A	C8-N9-C4	5.08	107.83	105.80
31	DA	2541	A	N1-C6-N6	5.08	121.65	118.60
31	DA	94(A)	G	C5-C6-O6	-5.08	125.55	128.60
31	DA	208	C	N3-C2-O2	5.08	125.46	121.90
31	DA	389	G	N3-C4-N9	5.08	129.05	126.00
1	AA	1158	C	C2-N1-C1'	5.08	124.39	118.80
1	AA	1524	C	N1-C2-O2	-5.08	115.85	118.90
31	DA	666	G	N9-C4-C5	-5.08	103.37	105.40
31	DA	1131	G	C4-N9-C1'	-5.08	119.90	126.50
1	AA	893	C	N3-C4-C5	5.08	123.93	121.90
31	BA	686	G	C4-C5-N7	5.08	112.83	110.80
31	DA	206	U	C6-N1-C2	5.08	124.05	121.00
31	DA	538	G	C8-N9-C4	5.08	108.43	106.40
31	DA	980	A	N1-C6-N6	5.08	121.65	118.60
31	BA	2089	U	C5-C6-N1	-5.08	120.16	122.70
31	BA	2676	C	C4-C5-C6	5.08	119.94	117.40
32	BB	38	C	N1-C2-O2	5.08	121.95	118.90
31	DA	1977	A	C2-N3-C4	-5.08	108.06	110.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1604	C	C5-C6-N1	-5.08	118.46	121.00
31	DA	253	C	N3-C2-O2	5.08	125.45	121.90
32	DB	97	G	C4-N9-C1'	-5.08	119.90	126.50
31	BA	237	C	N3-C4-C5	5.07	123.93	121.90
31	DA	1261	C	C5-C6-N1	-5.07	118.46	121.00
31	DA	2059	A	N1-C6-N6	5.07	121.64	118.60
43	DR	54	LEU	CA-CB-CG	-5.07	103.63	115.30
31	DA	1570	A	C4-C5-N7	5.07	113.24	110.70
31	BA	271(P)	C	C2-N1-C1'	5.07	124.38	118.80
31	BA	1795	C	N3-C4-C5	5.07	123.93	121.90
31	BA	1813	G	C8-N9-C4	5.07	108.43	106.40
31	DA	182	A	N1-C6-N6	5.07	121.64	118.60
31	DA	668	G	C8-N9-C1'	-5.07	120.41	127.00
31	DA	1122	G	N9-C4-C5	-5.07	103.37	105.40
31	DA	1822	G	N3-C4-C5	5.07	131.13	128.60
31	DA	2464	C	C6-N1-C1'	-5.07	114.72	120.80
31	DA	2610	C	N3-C4-C5	5.07	123.93	121.90
31	DA	2676	C	N3-C4-C5	5.07	123.93	121.90
31	BA	190	A	C4-C5-N7	5.07	113.23	110.70
31	BA	1291	C	C5-C6-N1	-5.07	118.47	121.00
34	BE	136	ARG	NE-CZ-NH1	-5.07	117.77	120.30
31	BA	28	A	C8-N9-C4	5.07	107.83	105.80
31	BA	2331	G	N1-C6-O6	5.07	122.94	119.90
31	DA	198	C	N3-C4-C5	5.07	123.93	121.90
31	DA	1403	C	C6-N1-C1'	5.07	126.88	120.80
31	BA	933	A	C4-C5-N7	5.07	113.23	110.70
31	BA	1790	C	N3-C4-C5	5.07	123.93	121.90
31	BA	2383	G	N1-C2-N2	-5.07	111.64	116.20
31	DA	1897	G	C4-C5-N7	5.07	112.83	110.80
31	BA	1255	U	C5-C6-N1	-5.06	120.17	122.70
31	DA	271(P)	C	C6-N1-C2	-5.06	118.27	120.30
31	DA	1232	G	N3-C4-C5	5.06	131.13	128.60
31	DA	1698	A	C3'-C2'-C1'	-5.06	97.45	101.50
31	DA	1976	U	N1-C2-N3	5.06	117.94	114.90
31	BA	478	A	C4-C5-C6	5.06	119.53	117.00
31	DA	378	C	N3-C4-C5	5.06	123.92	121.90
31	DA	507	A	N9-C4-C5	-5.06	103.78	105.80
31	DA	1279	G	N7-C8-N9	-5.06	110.57	113.10
31	DA	1663	C	C6-N1-C2	5.06	122.33	120.30
31	DA	2056	G	C6-C5-N7	-5.06	127.36	130.40
31	DA	1380	G	N3-C4-C5	5.06	131.13	128.60
1	AA	921	U	C6-N1-C2	-5.06	117.97	121.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	946	G	C5-C6-O6	-5.06	125.56	128.60
31	BA	2290	G	C8-N9-C4	5.06	108.42	106.40
31	BA	1319	G	C6-N1-C2	-5.06	122.07	125.10
31	DA	388	G	N1-C6-O6	-5.06	116.87	119.90
31	DA	1239	G	N3-C4-N9	-5.06	122.97	126.00
31	DA	2291	U	C5-C6-N1	-5.06	120.17	122.70
1	AA	991	U	C3'-C2'-C1'	5.05	105.54	101.50
31	BA	416	C	C6-N1-C2	-5.05	118.28	120.30
31	BA	1224	C	C5-C6-N1	-5.05	118.47	121.00
31	BA	59	U	C5-C4-O4	5.05	128.93	125.90
31	BA	473	G	C5-C6-N1	-5.05	108.97	111.50
31	BA	660	G	C8-N9-C4	5.05	108.42	106.40
31	BA	1031	G	C8-N9-C4	5.05	108.42	106.40
31	DA	147	U	C5-C6-N1	-5.05	120.17	122.70
31	BA	1968	G	N3-C4-C5	5.05	131.12	128.60
36	DG	34	LEU	CA-CB-CG	5.05	126.92	115.30
31	BA	596	G	C8-N9-C4	5.05	108.42	106.40
1	CA	1474	G	C8-N9-C4	5.05	108.42	106.40
31	BA	1708	C	N1-C2-O2	-5.05	115.87	118.90
31	BA	1937	A	C2-N3-C4	-5.04	108.08	110.60
1	AA	108	G	C4-C5-N7	5.04	112.82	110.80
31	BA	647	G	N3-C4-C5	-5.04	126.08	128.60
31	BA	840	C	C5-C6-N1	-5.04	118.48	121.00
31	DA	2544	G	C4-C5-N7	5.04	112.82	110.80
31	BA	2496	C	N3-C4-C5	5.04	123.92	121.90
32	BB	60	C	N3-C4-C5	-5.04	119.88	121.90
31	BA	980	A	N9-C4-C5	-5.04	103.78	105.80
31	BA	1841	U	N1-C2-O2	-5.04	119.27	122.80
31	DA	303	U	N3-C4-C5	5.04	117.62	114.60
31	DA	827	U	N3-C2-O2	5.04	125.73	122.20
31	DA	1948	G	N3-C2-N2	-5.04	116.37	119.90
31	DA	2364	C	C6-N1-C2	5.04	122.31	120.30
31	BA	1510	G	N1-C6-O6	5.04	122.92	119.90
31	BA	2548	G	C4-C5-C6	5.04	121.82	118.80
31	BA	2742	C	C5-C6-N1	-5.04	118.48	121.00
24	D2	55	ARG	N-CA-C	-5.04	97.40	111.00
31	DA	1219	G	N3-C4-C5	5.03	131.12	128.60
31	BA	656	G	C4-C5-C6	5.03	121.82	118.80
31	BA	810	U	C5-C6-N1	-5.03	120.18	122.70
31	BA	2293	C	C6-N1-C2	5.03	122.31	120.30
31	DA	783	A	C5-C6-N1	-5.03	115.18	117.70
31	BA	322	A	N1-C6-N6	5.03	121.62	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	376	C	C6-N1-C1'	5.03	126.84	120.80
31	BA	675	A	N9-C4-C5	-5.03	103.79	105.80
31	BA	1364	G	C8-N9-C4	5.03	108.41	106.40
31	BA	1962	C	C5-C6-N1	5.03	123.52	121.00
31	DA	179	G	N3-C4-C5	5.03	131.12	128.60
31	DA	1210	A	N9-C4-C5	-5.03	103.79	105.80
31	DA	2485	G	C8-N9-C4	5.03	108.41	106.40
31	DA	2547	U	C6-N1-C2	5.03	124.02	121.00
31	DA	948	G	C5-C6-N1	-5.03	108.98	111.50
31	DA	2051	A	C2-N3-C4	-5.03	108.08	110.60
31	DA	2542	A	C3'-C2'-C1'	5.03	105.52	101.50
31	BA	205	G	C8-N9-C4	5.03	108.41	106.40
31	BA	710	G	N1-C6-O6	5.03	122.92	119.90
31	BA	1420	U	C6-N1-C1'	-5.03	114.16	121.20
31	BA	2057	A	C8-N9-C4	5.03	107.81	105.80
31	BA	2729	G	N1-C6-O6	5.03	122.92	119.90
31	DA	2014	A	C5-C6-N6	-5.03	119.68	123.70
31	BA	2559	C	C2-N1-C1'	5.03	124.33	118.80
31	DA	141	A	C6-C5-N7	-5.03	128.78	132.30
31	DA	852	G	N3-C4-N9	5.03	129.01	126.00
31	DA	2498	C	C5-C6-N1	-5.03	118.49	121.00
31	BA	1202	C	N3-C4-C5	-5.02	119.89	121.90
31	BA	2392	A	C2-N3-C4	-5.02	108.09	110.60
31	DA	2061	G	N1-C2-N2	-5.02	111.68	116.20
31	DA	2263	C	C6-N1-C2	5.02	122.31	120.30
31	DA	2451	A	C5-N7-C8	-5.02	101.39	103.90
1	AA	1466	C	C2-N1-C1'	-5.02	113.27	118.80
31	BA	1758	G	N3-C4-N9	-5.02	122.99	126.00
31	DA	2608	G	N9-C4-C5	5.02	107.41	105.40
31	BA	912	C	C6-N1-C2	-5.02	118.29	120.30
32	BB	17	C	N1-C2-O2	5.02	121.91	118.90
31	DA	381	G	C8-N9-C4	5.02	108.41	106.40
31	DA	1495	A	C6-C5-N7	-5.02	128.79	132.30
31	DA	1495	A	N1-C6-N6	5.02	121.61	118.60
31	DA	1673	U	C2-N3-C4	-5.02	123.99	127.00
31	DA	2501	C	N3-C4-C5	5.02	123.91	121.90
31	BA	2027	G	C8-N9-C4	-5.02	104.39	106.40
31	BA	2061	G	C5-C6-O6	5.02	131.61	128.60
31	DA	1106	A	C3'-C2'-C1'	5.02	105.52	101.50
31	DA	2447	G	N3-C4-N9	5.02	129.01	126.00
31	DA	2651	C	C6-N1-C2	5.02	122.31	120.30
31	DA	2699	C	N3-C4-C5	5.02	123.91	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	208	C	N3-C2-O2	5.02	125.41	121.90
31	BA	2084	C	C4-C5-C6	5.02	119.91	117.40
1	CA	894	G	N1-C6-O6	5.02	122.91	119.90
31	DA	57	C	C6-N1-C2	5.02	122.31	120.30
31	DA	203	C	C2-N1-C1'	-5.02	113.28	118.80
31	DA	303	U	C6-N1-C2	5.02	124.01	121.00
31	DA	555	U	C2-N1-C1'	-5.02	111.68	117.70
31	DA	2091	U	C6-N1-C2	5.02	124.01	121.00
31	DA	2346	A	C4-C5-C6	5.02	119.51	117.00
31	DA	2448	A	C8-N9-C4	5.02	107.81	105.80
31	BA	2395	C	N3-C4-N4	5.02	121.51	118.00
31	DA	460	A	N9-C4-C5	-5.02	103.79	105.80
31	DA	2004	G	N3-C2-N2	-5.02	116.39	119.90
31	BA	2000	G	C4-N9-C1'	-5.01	119.98	126.50
31	BA	2032	G	N1-C6-O6	5.01	122.91	119.90
31	DA	1930	G	C4-N9-C1'	-5.01	119.98	126.50
31	DA	2482	G	C4-N9-C1'	5.01	133.02	126.50
31	DA	2598	A	N1-C6-N6	5.01	121.61	118.60
31	BA	737	C	C6-N1-C2	5.01	122.31	120.30
31	BA	1529	G	C4-N9-C1'	5.01	133.02	126.50
31	BA	1972	A	N1-C2-N3	-5.01	126.80	129.30
31	BA	2676	C	C5-C4-N4	-5.01	116.69	120.20
31	DA	612	C	C5-C6-N1	-5.01	118.49	121.00
31	DA	693	C	C4-C5-C6	5.01	119.91	117.40
31	DA	1301	A	N1-C2-N3	5.01	131.81	129.30
31	BA	2498	C	C2-N1-C1'	-5.01	113.29	118.80
31	DA	509	C	C2-N1-C1'	-5.01	113.29	118.80
31	BA	788	A	N9-C4-C5	-5.01	103.80	105.80
31	BA	2527	C	N1-C2-O2	-5.01	115.89	118.90
47	DV	40	LEU	N-CA-C	5.01	124.52	111.00
31	BA	47	C	N3-C4-C5	5.01	123.90	121.90
31	BA	1769	G	C6-C5-N7	-5.01	127.40	130.40
1	CA	909	A	N1-C6-N6	5.01	121.60	118.60
1	CA	991	U	C3'-C2'-C1'	5.01	105.50	101.50
31	DA	759	G	N3-C4-C5	5.01	131.10	128.60
31	DA	1299	G	N1-C6-O6	5.01	122.90	119.90
1	AA	820	U	C2-N1-C1'	-5.00	111.69	117.70
31	DA	594	U	N1-C2-O2	-5.00	119.30	122.80
31	DA	2059	A	C5-C6-N1	-5.00	115.20	117.70
31	DA	2644	G	C2-N3-C4	-5.00	109.40	111.90
31	BA	262	A	N7-C8-N9	-5.00	111.30	113.80
34	BE	51	PHE	N-CA-C	5.00	124.51	111.00

*Continued on next page...*

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DA	941	A	N1-C2-N3	5.00	131.80	129.30
31	DA	2431	U	C6-N1-C2	5.00	124.00	121.00
31	DA	2490	G	N1-C6-O6	5.00	122.90	119.90
28	B6	11	LEU	CB-CA-C	-5.00	100.70	110.20
31	BA	2715	C	N1-C2-O2	-5.00	115.90	118.90
31	DA	502	A	C6-N1-C2	-5.00	115.60	118.60
31	DA	1678	G	N3-C2-N2	5.00	123.40	119.90

All (37) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
31	BA	472	A	C3'
31	BA	669	G	C1',C4',C3'
31	BA	945	A	C1'
31	BA	1300	U	C4',C3'
31	BA	1379	A	C1'
31	BA	1484	G	C3'
31	BA	1544	A	C1'
31	BA	1609	A	C2'
31	BA	1652	A	C3'
31	BA	1694	C	C4',C3'
31	BA	1934	C	C3'
31	BA	2286	A	C1'
31	BA	2662	A	C1'
31	BA	2796	U	C1'
1	CA	923	A	C2'
31	DA	472	A	C3'
31	DA	669	G	C1',C4',C3'
31	DA	945	A	C1'
31	DA	1300	U	C4',C3'
31	DA	1379	A	C1'
31	DA	1484	G	C3'
31	DA	1544	A	C1'
31	DA	1609	A	C2'
31	DA	1652	A	C3'
31	DA	1694	C	C4',C3'
31	DA	1934	C	C3'
31	DA	2286	A	C1'
31	DA	2662	A	C1'
31	DA	2796	U	C1'

All (42) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
22	B0	11	ARG	Peptide
23	B1	30	VAL	Peptide
24	B2	54	LYS	Peptide
27	B5	51	TYR	Peptide
33	BD	236	GLY	Peptide
33	BD	237	GLU	Peptide
33	BD	244	ARG	Peptide
33	BD	47	GLY	Peptide
34	BE	131	ALA	Peptide
34	BE	132	HIS	Peptide
37	BH	154	PRO	Peptide
41	BP	37	GLY	Peptide
41	BP	39	LYS	Peptide
41	BP	51	PHE	Peptide
41	BP	52	GLU	Peptide
41	BP	57	THR	Peptide
42	BQ	10	ARG	Peptide
43	BR	5	LYS	Peptide
45	BT	29	ARG	Peptide
47	BV	87	HIS	Peptide
49	BX	76	ARG	Peptide
49	BX	77	LYS	Peptide
22	D0	11	ARG	Peptide
23	D1	30	VAL	Peptide
24	D2	54	LYS	Peptide
27	D5	51	TYR	Peptide
33	DD	244	ARG	Peptide
33	DD	47	GLY	Peptide
34	DE	131	ALA	Peptide
34	DE	132	HIS	Peptide
37	DH	154	PRO	Peptide
41	DP	37	GLY	Peptide
41	DP	51	PHE	Peptide
41	DP	57	THR	Peptide
42	DQ	10	ARG	Peptide
43	DR	5	LYS	Peptide
45	DT	29	ARG	Peptide
47	DV	18	LEU	Peptide
47	DV	87	HIS	Peptide
49	DX	61	GLY	Peptide
49	DX	76	ARG	Peptide
49	DX	77	LYS	Peptide

## 5.2 Too-close contacts [i](#)

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	2214	12
1	CA	32329	0	16318	2202	2
2	AB	1901	0	1951	203	0
2	CB	1901	0	1951	204	0
3	AC	1613	0	1677	143	0
3	CC	1613	0	1677	145	0
4	AD	1703	0	1763	229	0
4	CD	1703	0	1764	232	0
5	AE	1147	0	1207	126	0
5	CE	1147	0	1207	145	0
6	AF	843	0	857	116	0
6	CF	843	0	857	125	0
7	AG	1257	0	1296	77	0
7	CG	1257	0	1296	81	0
8	AH	1116	0	1177	144	0
8	CH	1116	0	1177	137	0
9	AI	1011	0	1042	112	0
9	CI	1011	0	1042	107	0
10	AJ	795	0	840	102	0
10	CJ	795	0	840	105	0
11	AK	885	0	904	109	0
11	CK	885	0	904	116	0
12	AL	971	0	1057	136	0
12	CL	971	0	1057	131	0
13	AM	921	0	976	97	0
13	CM	921	0	976	91	0
14	AN	492	0	532	46	0
14	CN	492	0	529	49	0
15	AO	734	0	771	81	0
15	CO	734	0	771	79	0
16	AP	701	0	720	103	0
16	CP	701	0	720	110	0
17	AQ	824	0	891	81	0
17	CQ	824	0	891	78	0
18	AR	574	0	644	86	0
18	CR	574	0	644	86	0
19	AS	630	0	652	53	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	CS	630	0	652	50	0
20	AT	763	0	861	93	0
20	CT	763	0	861	94	0
21	AU	209	0	221	14	0
21	CU	209	0	221	12	0
22	B0	650	0	654	90	0
22	D0	650	0	654	95	0
23	B1	693	0	764	149	0
23	D1	693	0	764	156	0
24	B2	421	0	461	141	0
24	D2	421	0	461	136	0
25	B3	468	0	523	47	0
25	D3	468	0	523	70	0
26	B4	157	0	69	7	0
26	D4	157	0	69	8	0
27	B5	459	0	480	100	0
27	D5	459	0	480	100	0
28	B6	381	0	390	102	0
28	D6	381	0	390	95	0
29	B7	419	0	467	54	0
29	D7	419	0	467	57	0
30	B8	508	0	576	156	0
30	D8	508	0	576	151	0
31	BA	58698	0	29589	4119	0
31	DA	58698	0	29591	4387	0
32	BB	2551	0	1295	239	0
32	DB	2551	0	1295	231	0
33	BD	2105	0	2182	402	0
33	DD	2105	0	2182	406	0
34	BE	1564	0	1629	278	0
34	DE	1564	0	1629	278	0
35	BF	1624	0	1677	214	0
35	DF	1624	0	1677	209	0
36	BG	1474	0	1534	220	0
36	DG	1474	0	1534	223	0
37	BH	1223	0	1282	170	0
37	DH	1223	0	1282	162	0
38	BI	1132	0	1218	167	2
38	DI	1132	0	1218	158	12
39	BN	1105	0	1180	231	0
39	DN	1105	0	1180	231	0
40	BO	933	0	996	138	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	DO	933	0	996	133	0
41	BP	1114	0	1187	372	0
41	DP	1114	0	1187	345	0
42	BQ	1080	0	1127	195	0
42	DQ	1080	0	1127	195	0
43	BR	960	0	1021	136	0
43	DR	960	0	1021	146	0
44	BS	771	0	832	166	0
44	DS	771	0	832	172	0
45	BT	1100	0	1164	210	0
45	DT	1100	0	1164	213	0
46	BU	958	0	1015	171	0
46	DU	958	0	1015	177	0
47	BV	779	0	851	265	0
47	DV	779	0	851	258	0
48	BW	896	0	953	110	0
48	DW	896	0	953	128	0
49	BX	726	0	778	203	0
49	DX	726	0	777	199	0
50	BY	776	0	870	193	0
50	DY	776	0	870	191	0
51	BZ	1404	0	1432	190	0
51	DZ	1404	0	1432	196	0
52	AA	52	0	0	0	0
52	B0	1	0	0	0	0
52	B1	1	0	0	0	0
52	B5	2	0	0	0	0
52	B7	1	0	0	0	0
52	BA	360	0	0	0	0
52	BB	7	0	0	0	0
52	BD	2	0	0	0	0
52	BF	1	0	0	0	0
52	BP	3	0	0	0	0
52	BQ	2	0	0	0	0
52	BR	1	0	0	0	0
52	BU	1	0	0	0	0
52	BX	1	0	0	0	0
52	CA	50	0	0	0	0
52	D5	1	0	0	0	0
52	D7	1	0	0	0	0
52	D8	1	0	0	0	0
52	DA	318	0	0	0	0

*Continued on next page...*

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	DB	3	0	0	0	0
52	DD	2	0	0	0	0
52	DE	1	0	0	0	0
52	DF	1	0	0	0	0
52	DP	1	0	0	0	0
52	DQ	1	0	0	0	0
52	DR	2	0	0	0	0
52	DU	1	0	0	0	0
52	DX	1	0	0	0	0
53	AD	1	0	0	0	0
53	AN	1	0	0	0	0
53	CD	1	0	0	0	0
53	CN	1	0	0	0	0
54	BA	1	0	0	0	0
54	DA	1	0	0	0	0
55	BA	58	0	65	32	0
55	DA	58	0	65	34	0
All	All	278037	0	189235	24925	14

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 54.

All (24925) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:921:U:H1'	1:CA:922:G:C4	1.55	1.40
55:DA:3320:TEL:H11	55:DA:3320:TEL:C14	1.64	1.28
55:BA:3362:TEL:H11	55:BA:3362:TEL:C14	1.64	1.24
33:BD:35:LYS:HD2	33:BD:104:TYR:CD1	1.73	1.22
26:B4:13:ARG:HA	36:BG:101:ILE:HG13	1.22	1.19
31:DA:1722:A:H2	31:DA:1740:G:H5'	1.08	1.18
31:DA:2287:A:N6	31:DA:2344:U:H3	1.42	1.17
31:BA:2565:A:H5''	31:BA:2566:A:OP2	1.45	1.17
49:DX:77:LYS:HG2	49:DX:78:LYS:HG3	1.25	1.16
35:BF:67:GLN:O	35:BF:67:GLN:HG3	1.46	1.16
37:BH:85:LYS:HD2	37:BH:141:VAL:HG13	1.20	1.16
47:DV:2:PHE:HB2	47:DV:42:GLY:HA3	1.25	1.16
49:BX:77:LYS:HG2	49:BX:78:LYS:HG3	1.22	1.16
31:BA:2787:C:H1'	34:BE:61:ARG:HB2	1.27	1.15
47:DV:82:ARG:HG3	47:DV:82:ARG:HH11	1.06	1.15
41:BP:16:ARG:HG3	41:BP:16:ARG:HH11	1.04	1.15

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1286:A:O2'	31:DA:1288:U:OP2	1.62	1.15
31:DA:1899:G:H22	31:DA:1902:C:N4	1.43	1.15
31:BA:1722:A:H2	31:BA:1740:G:H5'	1.10	1.15
31:BA:1899:G:H22	31:BA:1902:C:N4	1.44	1.15
1:AA:627:G:H2'	1:AA:628:G:H8	1.09	1.14
26:D4:13:ARG:HA	36:DG:101:ILE:HG13	1.25	1.14
30:B8:62:LEU:HD13	31:BA:242:G:H5''	1.28	1.14
5:CE:76:ILE:HG12	5:CE:77:PRO:HD2	1.30	1.14
46:DU:92:ARG:HD2	47:DV:11:GLN:HE21	1.05	1.13
55:DA:3320:TEL:H11	55:DA:3320:TEL:H142	1.26	1.13
46:DU:92:ARG:HB3	47:DV:11:GLN:NE2	1.64	1.13
4:AD:128:VAL:HG13	4:AD:129:ASN:HD22	1.14	1.13
1:AA:1442(A):G:H22	45:BT:119:LYS:HA	0.97	1.13
50:BY:45:VAL:HG22	50:BY:62:GLU:HB2	1.27	1.13
44:BS:74:ALA:HB1	44:BS:103:GLU:HG3	1.28	1.12
1:CA:627:G:H2'	1:CA:628:G:H8	1.08	1.12
38:DI:88:ILE:HG13	38:DI:121:LYS:HA	1.29	1.12
45:DT:50:ILE:HD11	45:DT:102:ILE:HD11	1.22	1.12
31:BA:1286:A:O2'	31:BA:1288:U:OP2	1.65	1.12
31:BA:2317:C:H2'	31:BA:2318:G:H5''	1.30	1.12
45:BT:50:ILE:HD11	45:BT:102:ILE:HD11	1.26	1.12
46:BU:92:ARG:HD2	47:BV:11:GLN:HE21	0.98	1.11
33:DD:35:LYS:HD2	33:DD:104:TYR:CD1	1.84	1.11
37:DH:85:LYS:HD2	37:DH:141:VAL:HG13	1.26	1.11
23:D1:12:PRO:HD2	23:D1:62:VAL:HG23	1.24	1.11
31:DA:784:A:H5'	31:DA:785:G:OP1	1.50	1.11
31:DA:2701:C:H3'	31:DA:2702:U:C5'	1.81	1.11
50:DY:45:VAL:HG22	50:DY:62:GLU:HB2	1.29	1.11
47:BV:79:VAL:O	47:BV:80:GLN:HB3	1.49	1.11
30:D8:62:LEU:HD13	31:DA:242:G:H5''	1.22	1.11
31:DA:571:A:H5'	31:DA:2030:A:H62	1.00	1.11
55:BA:3362:TEL:H11	55:BA:3362:TEL:H142	1.26	1.10
31:DA:2565:A:H5''	31:DA:2566:A:OP2	1.49	1.10
20:AT:89:ARG:HH21	20:AT:104:LEU:HD11	1.14	1.10
1:CA:921:U:O2	1:CA:922:G:N3	1.85	1.10
47:DV:62:LEU:HB3	47:DV:98:GLU:HA	1.33	1.10
31:BA:2701:C:H3'	31:BA:2702:U:C5'	1.79	1.10
41:BP:23:PRO:HB2	41:BP:33:ARG:HG3	1.27	1.10
4:CD:128:VAL:HG13	4:CD:129:ASN:HD22	1.09	1.10
31:DA:669:G:H4'	31:DA:670:A:OP2	1.51	1.10
31:BA:571:A:H5'	31:BA:2030:A:H62	0.94	1.10

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2787:C:H1'	34:DE:61:ARG:HB2	1.31	1.09
39:DN:42:TRP:HA	39:DN:48:MET:HE1	1.10	1.09
25:B3:8:LEU:HD13	25:B3:31:LEU:HD23	1.28	1.09
25:D3:8:LEU:HD13	25:D3:31:LEU:HD23	1.29	1.09
5:AE:76:ILE:HG12	5:AE:77:PRO:HD2	1.35	1.09
31:BA:2287:A:N6	31:BA:2344:U:H3	1.47	1.09
43:BR:4:LEU:HD13	43:BR:4:LEU:O	1.52	1.09
31:DA:1403:C:H5''	31:DA:1471:A:H1'	1.30	1.09
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.35	1.09
24:B2:26:ARG:CZ	24:B2:29:LYS:HE2	1.82	1.09
31:BA:784:A:H5'	31:BA:785:G:OP1	1.50	1.09
31:DA:71:A:H5'	31:DA:71:A:H8	1.15	1.09
35:DF:101:LEU:HD12	35:DF:102:PRO:HD2	1.33	1.09
20:CT:89:ARG:HH21	20:CT:104:LEU:HD11	1.15	1.09
46:BU:92:ARG:HB3	47:BV:11:GLN:NE2	1.67	1.08
31:DA:49:A:H4'	31:DA:50:U:H5'	1.32	1.08
33:DD:27:THR:HG21	33:DD:83:GLU:HG2	1.25	1.08
41:DP:23:PRO:HB2	41:DP:33:ARG:HG3	1.30	1.08
47:DV:79:VAL:O	47:DV:80:GLN:HB3	1.52	1.08
16:AP:28:ARG:HH11	16:AP:28:ARG:HG2	1.18	1.08
39:BN:42:TRP:HA	39:BN:48:MET:HE1	1.10	1.08
47:BV:2:PHE:HB2	47:BV:42:GLY:HA3	1.27	1.08
47:BV:82:ARG:HH11	47:BV:82:ARG:HG3	1.00	1.08
50:BY:37:VAL:O	50:BY:38:ILE:HB	1.52	1.08
50:BY:71:LYS:HZ3	50:BY:71:LYS:HB2	1.18	1.08
31:DA:631:A:OP1	41:DP:64:LYS:HE2	1.54	1.08
39:DN:65:LYS:O	39:DN:69:GLN:HB2	1.53	1.08
31:DA:996:A:H4'	46:DU:92:ARG:NE	1.68	1.08
47:DV:2:PHE:HB2	47:DV:42:GLY:CA	1.83	1.08
47:BV:62:LEU:HB3	47:BV:98:GLU:HA	1.36	1.07
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.33	1.07
26:B4:25:TYR:HA	36:BG:109:VAL:HG22	1.34	1.07
31:DA:2317:C:H2'	31:DA:2318:G:H5''	1.32	1.07
33:BD:27:THR:HG21	33:BD:83:GLU:HG2	1.30	1.07
31:DA:229:A:H5'	31:DA:230:U:H5'	1.35	1.07
31:DA:1899:G:N2	31:DA:1902:C:H41	1.52	1.07
33:BD:25:THR:HG21	33:BD:81:ALA:HB1	1.08	1.07
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.35	1.07
31:DA:2415:G:H4'	41:DP:67:MET:H	1.16	1.07
8:AH:1:MET:HE2	8:AH:1:MET:H3	1.18	1.06
35:DF:24:LEU:HB3	35:DF:25:PRO:HD2	1.33	1.06

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:370:G:H4'	31:BA:371:A:OP2	1.54	1.06
48:BW:59:VAL:HG12	48:BW:60:ASN:H	1.20	1.06
1:CA:921:U:H1'	1:CA:922:G:C5	1.90	1.06
41:DP:16:ARG:HH11	41:DP:16:ARG:HG3	1.02	1.06
44:DS:74:ALA:HB1	44:DS:103:GLU:HG3	1.29	1.06
46:DU:83:LEU:HG	46:DU:88:ILE:HG12	1.34	1.06
35:BF:24:LEU:HB3	35:BF:25:PRO:HD2	1.32	1.06
31:DA:1210:A:H8	31:DA:1210:A:H5'	1.13	1.06
23:B1:12:PRO:HD2	23:B1:62:VAL:HG23	1.33	1.06
31:BA:49:A:H4'	31:BA:50:U:H5'	1.36	1.06
31:BA:2415:G:H4'	41:BP:67:MET:H	1.12	1.06
42:BQ:81:VAL:O	42:BQ:82:ARG:HG2	1.55	1.06
31:DA:1481:U:H5'	31:DA:1482:G:OP2	1.56	1.06
48:DW:59:VAL:HG12	48:DW:60:ASN:H	1.19	1.06
31:BA:1210:A:H5'	31:BA:1210:A:H8	1.13	1.05
31:BA:1481:U:H5'	31:BA:1482:G:OP2	1.54	1.05
50:BY:28:LYS:HD3	50:BY:28:LYS:H	1.16	1.05
1:CA:736:C:H2'	1:CA:737:A:C8	1.89	1.05
28:D6:10:LEU:H	28:D6:10:LEU:HD22	1.21	1.05
31:DA:27:G:N2	31:DA:512:G:H2'	1.70	1.05
31:DA:1332:G:N2	31:DA:1610:A:C8	2.25	1.05
31:BA:631:A:OP1	41:BP:64:LYS:HE2	1.55	1.05
35:BF:65:TRP:CZ3	35:BF:75:HIS:HD2	1.73	1.05
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.17	1.05
42:DQ:141:GLN:HB3	51:DZ:70:LEU:HD13	1.38	1.05
1:AA:491:G:H2'	1:AA:492:G:H8	1.22	1.05
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.38	1.05
47:BV:82:ARG:HH11	47:BV:82:ARG:CG	1.70	1.05
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.39	1.05
31:DA:1826:G:H4'	33:DD:242:ARG:HH21	1.22	1.05
41:DP:29:LYS:HD2	41:DP:29:LYS:H	1.20	1.05
55:BA:3362:TEL:H143	55:BA:3362:TEL:C1	1.86	1.05
46:BU:83:LEU:HG	46:BU:88:ILE:HG12	1.34	1.05
31:BA:27:G:N2	31:BA:512:G:H2'	1.70	1.04
31:BA:1278:A:OP1	43:BR:36:THR:HG22	1.57	1.04
31:BA:2275:C:O2'	42:BQ:83:MET:HA	1.57	1.04
48:BW:59:VAL:HG12	48:BW:60:ASN:N	1.72	1.04
31:DA:942:G:H5'	41:DP:35:HIS:HB2	1.38	1.04
41:BP:59:LEU:HA	41:BP:61:ARG:NH1	1.72	1.04
33:DD:25:THR:HG21	33:DD:81:ALA:HB1	1.07	1.04
48:DW:75:TYR:CE1	48:DW:104:THR:HB	1.92	1.04

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:28:LYS:HD3	50:DY:28:LYS:H	1.22	1.04
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.17	1.04
31:BA:1403:C:H5''	31:BA:1471:A:H1'	1.34	1.04
33:BD:27:THR:HG23	33:BD:28:GLU:H	1.23	1.04
42:BQ:141:GLN:HB3	51:BZ:70:LEU:HD13	1.38	1.04
26:D4:25:TYR:HA	36:DG:109:VAL:HG22	1.34	1.04
31:DA:370:G:H4'	31:DA:371:A:OP2	1.55	1.04
31:DA:2275:C:O2'	42:DQ:83:MET:HA	1.56	1.04
32:DB:74:U:H2'	32:DB:75:G:H5''	1.40	1.04
47:DV:71:LEU:HD13	47:DV:72:VAL:H	1.21	1.04
31:BA:285:C:H2'	31:BA:286:C:H5''	1.40	1.04
31:BA:2334:G:H21	44:BS:18:ILE:HD11	1.21	1.04
47:BV:75:PHE:CE1	47:BV:89:GLN:HB3	1.93	1.04
27:D5:16:ARG:HH11	27:D5:16:ARG:HG2	1.21	1.04
29:D7:28:ARG:HG3	29:D7:28:ARG:HH11	0.89	1.04
31:DA:285:C:H2'	31:DA:286:C:H5''	1.39	1.04
31:DA:2206:G:N2	31:DA:2207:G:H5'	1.70	1.04
31:BA:669:G:H4'	31:BA:670:A:OP2	1.54	1.03
31:BA:1332:G:N2	31:BA:1610:A:C8	2.25	1.03
31:BA:1779:U:H5	31:BA:1784:A:N7	1.54	1.03
31:BA:2206:G:N2	31:BA:2207:G:H5'	1.73	1.03
32:DB:65:C:N4	32:DB:109:C:H2'	1.73	1.03
35:DF:67:GLN:HG3	35:DF:67:GLN:O	1.50	1.03
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.35	1.03
27:B5:16:ARG:HH11	27:B5:16:ARG:HG2	1.22	1.03
31:BA:1899:G:N2	31:BA:1902:C:H41	1.53	1.03
1:AA:444:C:H2'	1:AA:445:G:H8	1.22	1.03
31:BA:71:A:H8	31:BA:71:A:H5'	1.18	1.03
34:BE:132:HIS:CD2	34:BE:135:HIS:CE1	2.46	1.03
41:BP:16:ARG:HD3	41:BP:18:ARG:HB2	1.39	1.03
1:CA:627:G:H2'	1:CA:628:G:C8	1.94	1.03
1:AA:386:C:H2'	1:AA:387:U:H5'	1.36	1.03
34:DE:51:PHE:HB3	34:DE:76:ARG:HB3	1.41	1.03
23:B1:49:VAL:HG11	31:BA:2091:U:O2'	1.58	1.03
31:BA:229:A:H5'	31:BA:230:U:H5'	1.37	1.03
47:BV:2:PHE:HB2	47:BV:42:GLY:CA	1.88	1.03
41:DP:38:GLN:HG3	41:DP:39:LYS:H	1.23	1.03
31:BA:1228:G:H2'	31:BA:1229:G:H5''	1.42	1.02
40:BO:10:VAL:HG21	40:BO:16:ALA:O	1.59	1.02
51:DZ:151:HIS:HB3	51:DZ:170:THR:HA	1.41	1.02
28:B6:10:LEU:HD22	28:B6:10:LEU:H	1.22	1.02

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:71:LEU:HD13	47:BV:72:VAL:H	1.22	1.02
31:DA:1278:A:OP1	43:DR:36:THR:HG22	1.58	1.02
50:DY:37:VAL:O	50:DY:38:ILE:HB	1.56	1.02
50:BY:47:LYS:N	50:BY:47:LYS:HD2	1.73	1.02
32:BB:74:U:H2'	32:BB:75:G:H5''	1.38	1.02
1:AA:627:G:H2'	1:AA:628:G:C8	1.95	1.02
1:AA:1442(A):G:N2	45:BT:119:LYS:HA	1.75	1.02
48:BW:75:TYR:CE1	48:BW:104:THR:HB	1.95	1.02
31:BA:745:G:H22	55:BA:3362:TEL:H51	1.21	1.01
31:BA:2394:C:OP1	41:BP:63:PRO:HD2	1.60	1.01
33:BD:108:PRO:HB3	33:BD:143:HIS:HE1	1.25	1.01
38:BI:88:ILE:HG13	38:BI:121:LYS:HA	1.42	1.01
47:BV:19:LYS:HG3	47:BV:20:LEU:H	1.19	1.01
51:BZ:151:HIS:HB3	51:BZ:170:THR:HA	1.40	1.01
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.22	1.01
31:DA:954:G:H5''	42:DQ:13:GLN:HG2	1.41	1.01
1:CA:922:G:H4'	5:CE:20:GLN:HA	1.40	1.01
35:DF:66:PRO:O	35:DF:67:GLN:HB3	1.60	1.01
47:DV:19:LYS:HG3	47:DV:20:LEU:H	1.18	1.01
51:DZ:19:ARG:HH11	51:DZ:19:ARG:HG2	1.25	1.01
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.43	1.01
29:B7:28:ARG:HH11	29:B7:28:ARG:HG3	0.90	1.01
49:BX:36:LYS:NZ	49:BX:38:GLU:O	1.92	1.01
50:BY:9:LYS:HA	50:BY:30:VAL:HG21	1.40	1.01
31:DA:2567:G:H2'	31:DA:2568:C:C6	1.95	1.01
39:DN:91:LEU:HA	39:DN:95:PRO:HB3	1.38	1.01
50:DY:71:LYS:HZ2	50:DY:71:LYS:HB2	1.21	1.01
50:BY:45:VAL:CG2	50:BY:62:GLU:HB2	1.89	1.01
1:CA:97:G:HO2'	1:CA:98:G:H8	1.08	1.01
22:D0:41:ARG:H	22:D0:41:ARG:HD2	1.23	1.01
24:D2:26:ARG:CZ	24:D2:29:LYS:HE2	1.88	1.01
35:DF:65:TRP:CZ3	35:DF:75:HIS:HD2	1.78	1.01
39:DN:120:LEU:HD11	39:DN:122:VAL:HG23	1.38	1.01
31:DA:1146:C:H2'	31:DA:1147:C:H5'	1.42	1.01
31:DA:1228:G:H2'	31:DA:1229:G:H5''	1.42	1.01
31:BA:1826:G:H4'	33:BD:242:ARG:HH21	1.24	1.00
33:BD:34:VAL:HG21	33:BD:103:ARG:HA	1.39	1.00
43:BR:11:ASN:OD1	43:BR:12:ARG:N	1.93	1.00
47:BV:85:LYS:O	47:BV:87:HIS:N	1.93	1.00
11:CK:33:THR:HA	11:CK:39:PRO:HA	1.43	1.00
31:DA:2631:G:N2	34:DE:61:ARG:HH12	1.58	1.00

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:9:LYS:HA	50:DY:30:VAL:HG21	1.42	1.00
1:AA:736:C:H2'	1:AA:737:A:C8	1.96	1.00
39:BN:120:LEU:HD11	39:BN:122:VAL:HG23	1.38	1.00
27:D5:2:ALA:HA	31:DA:2015:A:H1'	1.44	1.00
47:DV:75:PHE:CE1	47:DV:89:GLN:HB3	1.96	1.00
32:BB:67:G:C5	32:BB:68:C:H5	1.79	1.00
39:BN:65:LYS:O	39:BN:69:GLN:HB2	1.60	1.00
41:BP:38:GLN:HG3	41:BP:39:LYS:H	1.25	1.00
31:DA:1722:A:C2	31:DA:1740:G:H5'	1.97	1.00
32:DB:15:A:H5'	32:DB:16:G:C8	1.97	1.00
41:DP:59:LEU:HA	41:DP:61:ARG:NH1	1.77	1.00
32:BB:65:C:N4	32:BB:109:C:H2'	1.76	1.00
50:BY:45:VAL:HG22	50:BY:62:GLU:CB	1.90	1.00
30:D8:25:MET:HG3	41:DP:64:LYS:HB3	1.43	1.00
28:D6:10:LEU:HD12	30:D8:35:GLN:HE22	1.25	1.00
31:DA:2808:U:H5'	31:DA:2891:G:O6	1.61	1.00
31:BA:2701:C:C3'	31:BA:2702:U:H5''	1.91	1.00
48:DW:59:VAL:HG12	48:DW:60:ASN:N	1.73	1.00
1:AA:430:A:H2'	1:AA:431:A:H5'	1.44	1.00
31:DA:2801:A:H4'	31:DA:2801(A):A:H5'	1.44	1.00
55:DA:3320:TEL:H143	55:DA:3320:TEL:C1	1.86	1.00
31:DA:2701:C:C3'	31:DA:2702:U:H5''	1.91	0.99
33:BD:35:LYS:NZ	33:BD:104:TYR:HB2	1.78	0.99
1:CA:491:G:H2'	1:CA:492:G:H8	1.23	0.99
23:D1:49:VAL:HG11	31:DA:2091:U:O2'	1.62	0.99
34:DE:93:VAL:H	34:DE:95:ILE:HD12	1.26	0.99
41:DP:16:ARG:HD3	41:DP:18:ARG:HB2	1.41	0.99
1:AA:59:A:H5''	1:AA:60:A:H5''	1.43	0.99
24:B2:56:GLN:HA	24:B2:56:GLN:HE21	1.25	0.99
27:B5:2:ALA:HA	31:BA:2015:A:H1'	1.40	0.99
31:DA:1115:G:H2'	31:DA:1116:C:H6	1.26	0.99
51:BZ:19:ARG:HH11	51:BZ:19:ARG:HG2	1.28	0.99
20:CT:13:LEU:HD12	20:CT:13:LEU:H	1.27	0.99
33:DD:108:PRO:HB3	33:DD:143:HIS:HE1	1.28	0.99
32:BB:88:C:H2'	32:BB:89:G:C8	1.97	0.99
38:DI:82:ARG:HD2	38:DI:89:TYR:OH	1.60	0.98
41:DP:51:PHE:HB3	41:DP:52:GLU:OE2	1.63	0.98
23:B1:17:SER:O	23:B1:44:PRO:HD2	1.63	0.98
31:BA:2317:C:C2'	31:BA:2318:G:H5''	1.93	0.98
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.39	0.98
31:DA:745:G:H2	55:DA:3320:TEL:H51	1.25	0.98

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:15:A:H5'	32:BB:16:G:C8	1.97	0.98
40:DO:111:PHE:HB3	40:DO:114:ILE:HG12	1.42	0.98
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.45	0.98
34:BE:152:LYS:HD3	39:BN:78:TYR:HB2	1.45	0.98
31:DA:2781:A:H5'	31:DA:2782:G:H5'	1.45	0.98
31:BA:1146:C:H2'	31:BA:1147:C:H5'	1.44	0.98
1:CA:444:C:H2'	1:CA:445:G:H8	1.22	0.98
40:DO:10:VAL:HG21	40:DO:16:ALA:O	1.62	0.98
50:DY:31:LEU:HB3	50:DY:32:PRO:HA	1.43	0.98
1:AA:1418:A:H2	31:BA:1948:G:N3	1.60	0.98
31:BA:2801:A:H4'	31:BA:2801(A):A:H5'	1.45	0.98
31:BA:2808:U:H5'	31:BA:2891:G:O6	1.64	0.98
39:BN:56:ASN:H	39:BN:125:GLY:HA3	1.27	0.98
42:DQ:75:THR:HA	42:DQ:88:GLY:HA2	1.45	0.98
1:AA:134:A:H61	16:AP:25:ARG:HH12	1.09	0.98
1:AA:386:C:C2'	1:AA:387:U:H5'	1.93	0.98
1:CA:386:C:H2'	1:CA:387:U:H5'	1.42	0.98
3:CC:180:ALA:HB1	3:CC:182:ILE:HG13	1.42	0.98
20:CT:56:MET:HG3	20:CT:88:VAL:HG21	1.46	0.98
31:DA:1158:C:H2'	31:DA:1159:U:H5'	1.46	0.98
28:D6:15:GLU:OE1	28:D6:18:ARG:HG3	1.64	0.98
30:B8:25:MET:HG3	41:BP:64:LYS:HB3	1.46	0.98
31:BA:1722:A:C2	31:BA:1740:G:H5'	1.98	0.98
31:DA:806:C:OP2	41:DP:39:LYS:HD2	1.63	0.98
31:BA:1158:C:H2'	31:BA:1159:U:H5'	1.42	0.97
34:BE:154:LYS:HA	34:BE:154:LYS:HE3	1.46	0.97
33:DD:30:GLU:HG3	33:DD:63:ARG:NE	1.77	0.97
20:AT:56:MET:HG3	20:AT:88:VAL:HG21	1.43	0.97
31:BA:1115:G:H2'	31:BA:1116:C:H6	1.26	0.97
31:BA:2681:C:H5	31:BA:2725:A:H62	1.08	0.97
44:DS:29:PHE:N	44:DS:89:ARG:HD2	1.80	0.97
50:DY:45:VAL:CG2	50:DY:62:GLU:HB2	1.94	0.97
29:D7:28:ARG:HG3	29:D7:28:ARG:NH1	1.67	0.97
55:DA:3320:TEL:C14	55:DA:3320:TEL:C1	2.30	0.97
32:DB:88:C:H2'	32:DB:89:G:C8	1.99	0.97
39:BN:91:LEU:HA	39:BN:95:PRO:HB3	1.45	0.97
31:DA:1047:G:H21	31:DA:1111:A:H62	1.04	0.97
50:BY:95:LYS:HE2	50:BY:101:LYS:H	1.29	0.97
50:DY:45:VAL:HG22	50:DY:62:GLU:CB	1.94	0.97
4:CD:18:LYS:HD2	4:CD:33:MET:HG2	1.43	0.97
31:DA:2394:C:OP1	41:DP:63:PRO:HD2	1.62	0.97

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:737:A:H2'	1:AA:738:C:C6	1.99	0.97
27:B5:40:LYS:HE3	27:B5:49:CYS:SG	2.03	0.97
46:BU:93:LYS:HD3	46:BU:93:LYS:H	1.29	0.97
47:BV:22:VAL:O	47:BV:23:GLU:HB2	1.62	0.97
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.45	0.97
42:BQ:75:THR:HA	42:BQ:88:GLY:HA2	1.47	0.97
34:DE:132:HIS:CD2	34:DE:135:HIS:CE1	2.53	0.97
34:BE:51:PHE:HB3	34:BE:76:ARG:HB3	1.44	0.97
31:DA:925:C:H2'	31:DA:926:A:H5''	1.45	0.97
31:DA:1188:U:C2'	31:DA:1189:A:H5'	1.94	0.97
24:B2:56:GLN:HE21	24:B2:56:GLN:CA	1.78	0.97
31:BA:2287:A:H62	31:BA:2344:U:H3	1.03	0.97
23:D1:41:ARG:HH11	23:D1:41:ARG:HG3	1.29	0.97
3:AC:180:ALA:HB1	3:AC:182:ILE:HG13	1.43	0.96
31:BA:2415:G:H4'	41:BP:67:MET:N	1.80	0.96
6:AF:34:GLY:H	6:AF:71:ARG:HH21	1.11	0.96
20:AT:13:LEU:H	20:AT:13:LEU:HD12	1.28	0.96
31:BA:996:A:H4'	46:BU:92:ARG:NE	1.79	0.96
1:CA:475:G:H2'	1:CA:476:G:H8	1.29	0.96
8:CH:1:MET:HE2	8:CH:1:MET:H3	1.28	0.96
23:B1:41:ARG:HG3	23:B1:41:ARG:HH11	1.28	0.96
31:BA:1292:U:H2'	31:BA:1293:C:C6	1.99	0.96
33:BD:30:GLU:HG3	33:BD:63:ARG:NE	1.80	0.96
39:BN:18:ALA:HB1	39:BN:21:LYS:HB2	1.46	0.96
41:BP:124:LYS:HG2	41:BP:143:GLY:HA2	1.44	0.96
1:AA:475:G:H2'	1:AA:476:G:H8	1.29	0.96
31:BA:287:C:H42	31:BA:354:G:H1	1.11	0.96
31:BA:1339:G:N2	31:BA:1603:A:H1'	1.80	0.96
31:DA:996:A:O3'	46:DU:92:ARG:HG3	1.65	0.96
41:BP:62:LEU:HD22	41:BP:62:LEU:H	1.30	0.96
31:DA:1019:U:H3	31:DA:1142(A):A:H62	0.97	0.96
31:DA:2327:A:H2'	31:DA:2328:A:C8	2.01	0.96
31:DA:2334:G:H21	44:DS:18:ILE:HD11	1.30	0.96
33:DD:27:THR:HG23	33:DD:28:GLU:H	1.29	0.96
31:BA:2068:U:H3	31:BA:2430:A:H2	1.13	0.96
30:D8:25:MET:HB2	41:DP:62:LEU:HD23	1.47	0.96
34:DE:152:LYS:HD3	39:DN:78:TYR:HB2	1.44	0.96
31:BA:1678:G:N2	31:BA:1989:G:H22	1.62	0.96
31:BA:1158:C:C2'	31:BA:1159:U:H5'	1.95	0.96
31:BA:1747(A):G:H2'	31:BA:1748:G:H5''	1.47	0.96
31:BA:27:G:N2	31:BA:512:G:C2'	2.29	0.96

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:52:ARG:HA	38:BI:55:ALA:HB3	1.44	0.96
1:CA:134:A:H61	16:CP:25:ARG:HH12	1.09	0.96
31:DA:287:C:H42	31:DA:354:G:H1	1.10	0.96
31:DA:1292:U:H2'	31:DA:1293:C:C6	2.00	0.96
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.27	0.95
31:DA:1779:U:H5	31:DA:1784:A:N7	1.62	0.95
36:DG:76:SER:HB2	36:DG:83:ARG:HB3	1.48	0.95
1:AA:662:G:H2'	1:AA:663:A:H8	1.31	0.95
2:AB:201:ILE:HG21	2:AB:214:ILE:HG21	1.45	0.95
51:BZ:53:ILE:HG22	51:BZ:71:VAL:HB	1.48	0.95
28:B6:10:LEU:HD12	30:B8:35:GLN:HE22	1.28	0.95
46:BU:92:ARG:HD2	47:BV:11:GLN:NE2	1.79	0.95
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.30	0.95
31:DA:996:A:H4'	46:DU:92:ARG:HE	1.29	0.95
31:DA:2701:C:H3'	31:DA:2702:U:H5''	0.96	0.95
1:AA:784:C:H4'	31:BA:1837:C:OP1	1.66	0.95
31:BA:2781:A:H5'	31:BA:2782:G:H5'	1.48	0.95
31:DA:2317:C:C2'	31:DA:2318:G:H5''	1.95	0.95
31:DA:2729:G:H1'	34:DE:187:ALA:HB2	1.48	0.95
55:DA:3320:TEL:H143	55:DA:3320:TEL:O5	1.66	0.95
31:BA:942:G:H5'	41:BP:35:HIS:HB2	1.47	0.95
30:D8:62:LEU:HD13	31:DA:242:G:C5'	1.96	0.95
1:AA:97:G:HO2'	1:AA:98:G:H8	1.14	0.95
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.31	0.95
11:AK:33:THR:HA	11:AK:39:PRO:HA	1.47	0.95
22:B0:41:ARG:HD2	22:B0:41:ARG:H	1.26	0.95
35:BF:101:LEU:HD12	35:BF:102:PRO:HD2	1.47	0.95
1:CA:386:C:C2'	1:CA:387:U:H5'	1.97	0.95
32:DB:67:G:C5	32:DB:68:C:H5	1.84	0.95
39:DN:56:ASN:H	39:DN:125:GLY:HA3	1.29	0.95
1:AA:626:U:H2'	1:AA:627:G:C8	2.02	0.95
34:BE:36:ARG:HH21	34:BE:88:GLY:HA2	1.30	0.95
41:BP:30:THR:HG22	41:BP:31:ALA:H	1.31	0.95
41:BP:51:PHE:HB3	41:BP:52:GLU:OE2	1.65	0.95
2:CB:178:ARG:NH2	8:CH:68:ARG:HH22	1.63	0.95
4:AD:18:LYS:HD2	4:AD:33:MET:HG2	1.46	0.95
31:BA:639:U:O2'	31:BA:640:C:H5'	1.67	0.95
34:DE:36:ARG:HH21	34:DE:88:GLY:HA2	1.29	0.95
1:AA:437:U:H5''	4:AD:155:LEU:HD13	1.47	0.95
2:AB:178:ARG:NH2	8:AH:68:ARG:HH22	1.64	0.95
41:BP:58:THR:O	41:BP:61:ARG:NE	2.00	0.95

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:102:G:H2'	1:CA:103:C:H6	1.28	0.95
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.32	0.95
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.67	0.95
28:B6:15:GLU:OE1	28:B6:18:ARG:HG3	1.66	0.94
31:BA:571:A:H5'	31:BA:2030:A:N6	1.80	0.94
41:BP:16:ARG:HG3	41:BP:16:ARG:NH1	1.75	0.94
1:CA:437:U:H5''	4:CD:155:LEU:HD13	1.48	0.94
24:D2:56:GLN:HE21	24:D2:56:GLN:HA	1.29	0.94
29:D7:28:ARG:HH11	29:D7:28:ARG:CG	1.79	0.94
31:DA:903:C:H2'	31:DA:904:C:H5''	1.45	0.94
31:DA:1494:A:H4'	31:DA:1495:A:OP1	1.66	0.94
47:DV:85:LYS:O	47:DV:87:HIS:N	2.00	0.94
1:AA:664:G:H22	1:AA:741:G:H1	0.96	0.94
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	1.49	0.94
50:BY:17:SER:HB3	50:BY:71:LYS:HD2	1.48	0.94
31:DA:1158:C:C2'	31:DA:1159:U:H5'	1.97	0.94
1:AA:382:A:H2'	1:AA:383:A:H8	1.33	0.94
1:AA:862:C:C2'	1:AA:863:U:H5'	1.96	0.94
31:BA:2701:C:H3'	31:BA:2702:U:H5''	0.95	0.94
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.03	0.94
4:CD:128:VAL:HG13	4:CD:129:ASN:ND2	1.82	0.94
34:DE:154:LYS:HE3	34:DE:154:LYS:HA	1.50	0.94
3:AC:182:ILE:HG12	3:AC:203:PHE:HA	1.49	0.94
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.02	0.94
31:BA:2680:C:H5'	34:BE:189:PRO:HA	1.50	0.94
1:CA:475:G:H2'	1:CA:476:G:C8	2.03	0.94
31:DA:860:U:H5	31:DA:917:A:N7	1.65	0.94
33:DD:34:VAL:HG21	33:DD:103:ARG:HA	1.46	0.94
43:DR:4:LEU:O	43:DR:4:LEU:HD13	1.67	0.94
30:B8:4:MET:SD	30:B8:61:LEU:HD12	2.06	0.94
31:DA:1778:U:H2'	31:DA:1784:A:N6	1.83	0.94
51:BZ:27:VAL:HG23	51:BZ:36:LYS:HA	1.49	0.94
44:BS:106:ARG:HG2	44:BS:107:GLU:N	1.83	0.94
49:BX:36:LYS:O	49:BX:36:LYS:HD2	1.66	0.94
2:CB:201:ILE:HG21	2:CB:214:ILE:HG21	1.46	0.94
28:D6:9:LEU:HD22	28:D6:10:LEU:N	1.82	0.94
47:DV:82:ARG:HH11	47:DV:82:ARG:CG	1.80	0.94
1:AA:555:C:H2'	1:AA:556:C:H6	1.31	0.94
30:B8:35:GLN:NE2	30:B8:36:LYS:HZ2	1.64	0.94
31:BA:1378:A:O2'	31:BA:1379:A:H5''	1.68	0.94
31:BA:1494:A:H4'	31:BA:1495:A:OP1	1.66	0.94

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:93:VAL:H	34:BE:95:ILE:HD12	1.31	0.94
47:BV:28:GLU:HB2	47:BV:29:PRO:HD3	1.50	0.94
1:CA:56:U:H2'	1:CA:57:G:C8	2.03	0.94
1:CA:555:C:H2'	1:CA:556:C:H6	1.30	0.94
31:DA:1414:G:H1	31:DA:1588:C:H42	1.12	0.94
31:DA:1690:A:H3'	31:DA:1691:C:H6	1.33	0.94
31:DA:2415:G:H4'	41:DP:67:MET:N	1.82	0.94
31:DA:2681:C:H5	31:DA:2725:A:H62	1.15	0.94
32:DB:15:A:H5'	32:DB:16:G:H8	1.30	0.94
11:AK:121:PRO:HD2	11:AK:126:ARG:HG3	1.50	0.94
31:BA:61:G:H1	31:BA:94:C:H42	1.16	0.94
31:BA:954:G:H5''	42:BQ:13:GLN:HG2	1.48	0.94
31:DA:1747(A):G:H2'	31:DA:1748:G:H5''	1.50	0.94
29:B7:28:ARG:HG3	29:B7:28:ARG:NH1	1.70	0.94
31:BA:2359:C:C2'	31:BA:2360:A:H5'	1.98	0.94
12:AL:60:LEU:HD21	12:AL:66:VAL:HG22	1.50	0.93
41:BP:29:LYS:HD2	41:BP:29:LYS:H	1.29	0.93
1:CA:430:A:H2'	1:CA:431:A:H5'	1.47	0.93
1:CA:445:G:H2'	1:CA:446:G:C8	2.02	0.93
1:CA:673:G:H2'	1:CA:674:G:C8	2.03	0.93
42:DQ:81:VAL:O	42:DQ:82:ARG:HG2	1.68	0.93
1:AA:102:G:H2'	1:AA:103:C:H6	1.31	0.93
31:BA:1414:G:H1	31:BA:1588:C:H42	1.08	0.93
45:BT:91:ARG:HB3	45:BT:116:ALA:HA	1.50	0.93
36:DG:106:LEU:HA	36:DG:110:ALA:HB3	1.50	0.93
31:BA:69:C:H2'	31:BA:69:C:O2	1.66	0.93
55:BA:3362:TEL:H143	55:BA:3362:TEL:O5	1.66	0.93
33:BD:147:LEU:HD13	33:BD:155:LEU:HD11	1.50	0.93
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.32	0.93
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.50	0.93
35:DF:20:LEU:HD22	35:DF:203:GLN:HE22	1.32	0.93
50:DY:95:LYS:HE2	50:DY:101:LYS:H	1.32	0.93
1:AA:862:C:H2'	1:AA:863:U:H5'	1.50	0.93
31:BA:1952:A:C5	40:BO:22:ILE:HD11	2.03	0.93
32:BB:25:A:H2'	32:BB:26:A:C8	2.03	0.93
33:BD:244:ARG:HG2	33:BD:245:PRO:HD3	1.50	0.93
40:BO:104:ARG:CZ	45:BT:33:LYS:HD2	1.98	0.93
41:BP:121:LYS:HG3	25:D3:2:PRO:HG2	1.51	0.93
23:D1:17:SER:O	23:D1:44:PRO:HD2	1.67	0.93
31:BA:903:C:H2'	31:BA:904:C:H5''	1.46	0.93
49:BX:82:GLN:O	49:BX:85:PRO:HD2	1.68	0.93

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:445:G:H2'	1:CA:446:G:H8	1.33	0.93
1:CA:737:A:H2'	1:CA:738:C:C6	2.03	0.93
31:BA:676:A:H2	31:BA:802:A:H61	1.14	0.93
55:BA:3362:TEL:C14	55:BA:3362:TEL:C1	2.30	0.93
1:CA:59:A:H5''	1:CA:60:A:H5''	1.51	0.93
3:CC:182:ILE:HG12	3:CC:203:PHE:HA	1.50	0.93
31:DA:1188:U:H2'	31:DA:1189:A:H5'	1.50	0.93
47:DV:72:VAL:HA	47:DV:88:ARG:HH12	1.33	0.93
23:B1:19:GLN:HG3	23:B1:44:PRO:HG3	1.51	0.93
41:BP:118:GLY:O	41:BP:119:GLU:HG2	1.69	0.93
31:DA:571:A:H5'	31:DA:2030:A:N6	1.83	0.93
31:BA:528:A:N1	31:BA:2042:A:H2'	1.83	0.93
37:BH:85:LYS:HD3	37:BH:133:VAL:HB	1.51	0.93
1:CA:664:G:H22	1:CA:741:G:H1	0.99	0.93
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	1.49	0.93
33:DD:35:LYS:HD3	33:DD:63:ARG:HB3	1.48	0.93
33:BD:35:LYS:CD	33:BD:104:TYR:CD1	2.51	0.93
1:CA:1502:A:H2	1:CA:1505:G:N1	1.66	0.93
31:DA:528:A:N1	31:DA:2042:A:H2'	1.83	0.93
31:BA:1188:U:C2'	31:BA:1189:A:H5'	1.99	0.93
33:BD:27:THR:CG2	33:BD:28:GLU:H	1.82	0.93
49:BX:25:LYS:HE3	49:BX:26:TYR:HE1	1.32	0.93
31:DA:1146:C:C2'	31:DA:1147:C:H5'	1.98	0.93
36:DG:127:GLY:HA2	36:DG:166:ASP:HB3	1.51	0.93
41:DP:124:LYS:HG2	41:DP:143:GLY:HA2	1.49	0.93
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.04	0.92
23:B1:19:GLN:HE21	31:BA:379:G:H21	0.99	0.92
47:BV:72:VAL:C	47:BV:88:ARG:HH22	1.72	0.92
50:BY:31:LEU:HB3	50:BY:32:PRO:HA	1.47	0.92
1:AA:472:A:H4'	16:AP:82:GLN:HE22	1.33	0.92
1:AA:1446:U:H4'	1:AA:1447:A:N7	1.84	0.92
51:BZ:53:ILE:CG2	51:BZ:71:VAL:HB	1.98	0.92
31:DA:1568:G:H21	33:DD:58:HIS:CE1	1.85	0.92
33:DD:71:ASP:HB2	33:DD:103:ARG:HH22	1.32	0.92
36:DG:161:THR:HG23	36:DG:163:ALA:H	1.35	0.92
48:DW:92:ARG:HH11	48:DW:92:ARG:HG2	1.34	0.92
1:AA:475:G:H2'	1:AA:476:G:C8	2.03	0.92
1:AA:688:G:H2'	1:AA:689:C:H6	1.35	0.92
1:AA:1502:A:H2	1:AA:1505:G:N1	1.68	0.92
31:BA:2870:C:H2'	31:BA:2871:C:H5'	1.51	0.92
39:BN:42:TRP:HA	39:BN:48:MET:CE	1.98	0.92

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:29:PHE:N	44:BS:89:ARG:HD2	1.84	0.92
50:BY:30:VAL:HG12	50:BY:31:LEU:H	1.32	0.92
1:CA:1442:G:O2'	1:CA:1442(A):G:H5''	1.69	0.92
31:DA:1378:A:O2'	31:DA:1379:A:H5''	1.69	0.92
31:BA:1047:G:H21	31:BA:1111:A:H62	1.00	0.92
31:BA:1210:A:H8	31:BA:1210:A:C5'	1.81	0.92
22:D0:32:ARG:N	22:D0:35:ASN:HD21	1.67	0.92
31:DA:71:A:H5'	31:DA:71:A:C8	2.05	0.92
41:DP:143:GLY:C	41:DP:145:PRO:HD3	1.89	0.92
1:CA:975:A:H4'	1:CA:976:G:H5''	1.52	0.92
11:CK:121:PRO:HD2	11:CK:126:ARG:HG3	1.49	0.92
31:DA:676:A:H2	31:DA:802:A:H61	1.05	0.92
31:DA:2199:A:H3'	31:DA:2200:C:H6	1.33	0.92
1:AA:975:A:H4'	1:AA:976:G:H5''	1.51	0.92
31:DA:2287:A:H62	31:DA:2344:U:H3	1.00	0.92
2:AB:22:LYS:HZ3	2:AB:22:LYS:HA	1.35	0.92
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.33	0.92
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.50	0.92
47:BV:82:ARG:HG3	47:BV:82:ARG:NH1	1.75	0.92
24:D2:49:LYS:HD2	24:D2:53:LEU:HD22	1.50	0.92
27:D5:40:LYS:HE3	27:D5:49:CYS:SG	2.08	0.92
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.05	0.92
31:BA:676:A:H8	31:BA:2069:G:H21	0.97	0.92
36:BG:127:GLY:HA2	36:BG:166:ASP:HB3	1.52	0.92
1:CA:626:U:H2'	1:CA:627:G:C8	2.04	0.92
31:DA:1224:C:O3'	47:DV:88:ARG:HB3	1.69	0.92
39:DN:18:ALA:HB1	39:DN:21:LYS:HB2	1.49	0.92
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.05	0.92
1:AA:1442:G:O2'	1:AA:1442(A):G:H5''	1.70	0.92
22:B0:32:ARG:N	22:B0:35:ASN:HD21	1.67	0.92
48:BW:92:ARG:HH11	48:BW:92:ARG:HG2	1.34	0.92
46:DU:93:LYS:HD3	46:DU:93:LYS:H	1.34	0.92
31:BA:1169:G:H1	31:BA:1180:C:N4	1.68	0.92
31:BA:1779:U:C5	31:BA:1784:A:N7	2.37	0.92
38:BI:91:SER:HB2	38:BI:119:PRO:HB2	1.50	0.92
40:BO:111:PHE:HB3	40:BO:114:ILE:HG12	1.52	0.92
1:CA:382:A:H2'	1:CA:383:A:H8	1.35	0.92
1:CA:472:A:H4'	16:CP:82:GLN:HE22	1.34	0.92
1:CA:662:G:H2'	1:CA:663:A:H8	1.34	0.92
1:AA:673:G:H2'	1:AA:674:G:C8	2.05	0.91
31:BA:1019:U:H3	31:BA:1142(A):A:N6	1.67	0.91

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1429:G:H2'	31:BA:1430:C:C6	2.05	0.91
1:CA:922:G:C8	5:CE:18:ARG:HB2	2.05	0.91
4:CD:209:ARG:CG	4:CD:209:ARG:HH11	1.82	0.91
31:DA:83:G:N2	31:DA:102:G:O2'	2.02	0.91
31:BA:1771:C:H1'	31:BA:1786:A:C8	2.06	0.91
31:BA:2567:G:H2'	31:BA:2568:C:C6	2.06	0.91
41:BP:143:GLY:C	41:BP:145:PRO:HD3	1.90	0.91
1:CA:862:C:C2'	1:CA:863:U:H5'	2.00	0.91
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.06	0.91
31:DA:639:U:O2'	31:DA:640:C:H5'	1.70	0.91
31:DA:1210:A:H5'	31:DA:1210:A:C8	2.04	0.91
46:DU:49:HIS:HA	46:DU:52:ARG:HB2	1.51	0.91
51:DZ:10:ARG:HH21	51:DZ:26:GLY:H	1.17	0.91
24:B2:49:LYS:HD2	24:B2:53:LEU:HD22	1.49	0.91
41:BP:62:LEU:HD22	41:BP:62:LEU:N	1.82	0.91
1:CA:1281:U:H4'	1:CA:1282:C:OP2	1.70	0.91
47:DV:22:VAL:O	47:DV:23:GLU:HB2	1.65	0.91
2:AB:55:PHE:HE1	2:AB:218:ALA:HA	1.33	0.91
29:B7:28:ARG:HH11	29:B7:28:ARG:CG	1.82	0.91
31:BA:288:C:H42	31:BA:353:G:H1	1.17	0.91
36:BG:76:SER:HB2	36:BG:83:ARG:HB3	1.50	0.91
47:BV:72:VAL:HA	47:BV:88:ARG:HH12	1.32	0.91
1:CA:1446:U:H4'	1:CA:1447:A:N7	1.84	0.91
31:DA:674:G:O2'	35:DF:74:ARG:HG3	1.70	0.91
31:DA:1945:G:C2'	31:DA:1946:U:H5'	2.00	0.91
50:DY:47:LYS:HD2	50:DY:47:LYS:N	1.86	0.91
32:BB:74:U:C2'	32:BB:75:G:H5''	1.99	0.91
13:CM:44:ARG:HB2	13:CM:46:LYS:HG2	1.52	0.91
28:D6:10:LEU:H	28:D6:10:LEU:CD2	1.84	0.91
32:DB:74:U:C2'	32:DB:75:G:H5''	2.01	0.91
30:B8:35:GLN:HE21	30:B8:36:LYS:HZ2	0.94	0.91
31:BA:2631:G:N2	34:BE:61:ARG:HH12	1.68	0.91
33:BD:35:LYS:HD3	33:BD:63:ARG:HB3	1.51	0.91
31:DA:1169:G:H1	31:DA:1180:C:N4	1.68	0.91
38:DI:91:SER:HB2	38:DI:119:PRO:HB2	1.53	0.91
31:BA:860:U:H5	31:BA:917:A:N7	1.68	0.91
34:BE:38:THR:HG22	34:BE:40:GLU:H	1.35	0.91
34:BE:117:MET:O	34:BE:118:LYS:HB2	1.67	0.91
32:DB:87:G:H3'	32:DB:88:C:H5''	1.51	0.91
41:DP:58:THR:O	41:DP:61:ARG:CZ	2.19	0.91
1:AA:365:U:H5''	1:AA:366:C:OP1	1.71	0.91

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BW:75:TYR:HE1	48:BW:104:THR:HB	1.29	0.91
6:CF:34:GLY:H	6:CF:71:ARG:HH21	1.11	0.91
31:DA:1210:A:H8	31:DA:1210:A:C5'	1.82	0.91
31:DA:1902:C:O2'	33:DD:244:ARG:HB2	1.70	0.91
33:DD:35:LYS:NZ	33:DD:104:TYR:HB2	1.86	0.91
45:DT:65:LYS:HE3	45:DT:66:VAL:H	1.36	0.91
49:DX:36:LYS:NZ	49:DX:38:GLU:O	2.03	0.91
31:DA:1495:A:H2'	31:DA:1496:A:N3	1.85	0.91
31:DA:2567:G:H2'	31:DA:2568:C:H6	1.35	0.91
44:DS:106:ARG:HG2	44:DS:107:GLU:N	1.83	0.91
31:BA:83:G:N2	31:BA:102:G:O2'	2.04	0.91
31:BA:1902:C:O2'	33:BD:244:ARG:HB2	1.70	0.91
41:BP:47:ASP:HB3	41:BP:48:PRO:C	1.91	0.91
31:DA:1115:G:H2'	31:DA:1116:C:C6	2.05	0.91
31:DA:1639:U:H2'	31:DA:1640:C:H5''	1.49	0.91
41:DP:62:LEU:H	41:DP:62:LEU:HD13	1.35	0.91
47:DV:28:GLU:HB2	47:DV:29:PRO:HD3	1.52	0.91
49:DX:35:THR:HB	49:DX:75:ASP:OD2	1.70	0.91
1:AA:15:G:H4'	5:AE:24:ARG:HH12	1.36	0.90
13:AM:44:ARG:HB2	13:AM:46:LYS:HG2	1.51	0.90
1:CA:688:G:H2'	1:CA:689:C:H6	1.35	0.90
24:D2:56:GLN:HE21	24:D2:56:GLN:CA	1.83	0.90
31:DA:1429:G:H2'	31:DA:1430:C:C6	2.06	0.90
31:DA:1430:C:H2'	31:DA:1431:U:C6	2.07	0.90
49:DX:36:LYS:O	49:DX:36:LYS:HD2	1.72	0.90
50:DY:75:ILE:HD11	50:DY:79:CYS:HA	1.52	0.90
31:BA:1019:U:HO2'	31:BA:1021:A:H2	0.93	0.90
31:BA:1495:A:H2'	31:BA:1496:A:N3	1.86	0.90
31:BA:2359:C:H2'	31:BA:2360:A:H5'	1.52	0.90
35:BF:185:ASP:HA	35:BF:188:ARG:HD3	1.52	0.90
41:BP:121:LYS:HG2	41:BP:122:PRO:HD2	1.52	0.90
1:CA:1199:U:H4'	10:CJ:54:PHE:CZ	2.06	0.90
34:DE:117:MET:O	34:DE:118:LYS:HB2	1.67	0.90
35:DF:22:ALA:O	35:DF:26:ALA:HB2	1.71	0.90
47:DV:82:ARG:HG3	47:DV:82:ARG:NH1	1.83	0.90
31:BA:1658:C:OP1	34:BE:132:HIS:CE1	2.24	0.90
31:BA:1973:G:H2'	31:BA:1974:C:H6	1.37	0.90
33:BD:27:THR:HG23	33:BD:28:GLU:N	1.85	0.90
1:CA:491:G:H2'	1:CA:492:G:C8	2.06	0.90
23:D1:19:GLN:HE21	31:DA:379:G:H21	1.11	0.90
31:DA:1339:G:N2	31:DA:1603:A:H1'	1.85	0.90

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:42:TRP:HB3	46:DU:64:ARG:NH1	1.86	0.90
35:BF:20:LEU:HD22	35:BF:203:GLN:HE22	1.34	0.90
12:CL:60:LEU:HD21	12:CL:66:VAL:HG22	1.50	0.90
41:DP:29:LYS:HD2	41:DP:29:LYS:N	1.86	0.90
1:AA:954:G:H21	1:AA:1227:A:H62	1.16	0.90
28:B6:20:ASN:ND2	28:B6:21:TYR:H	1.69	0.90
43:BR:71:GLN:HE21	43:BR:71:GLN:HA	1.37	0.90
23:D1:19:GLN:HG3	23:D1:44:PRO:HG3	1.51	0.90
31:DA:1019:U:HO2'	31:DA:1021:A:H2	0.91	0.90
47:DV:19:LYS:CG	47:DV:20:LEU:H	1.84	0.90
1:AA:491:G:H2'	1:AA:492:G:C8	2.06	0.90
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.53	0.90
31:BA:1115:G:H2'	31:BA:1116:C:C6	2.05	0.90
31:BA:1210:A:H5'	31:BA:1210:A:C8	2.04	0.90
46:BU:49:HIS:HA	46:BU:52:ARG:HB2	1.52	0.90
50:DY:30:VAL:HG12	50:DY:31:LEU:H	1.36	0.90
31:BA:2317:C:H2'	31:BA:2318:G:C5'	2.02	0.90
31:BA:2875:C:H4'	45:BT:5:ALA:HB2	1.53	0.90
33:BD:65:ILE:HD11	33:BD:67:PHE:CE1	2.07	0.90
36:BG:161:THR:HG23	36:BG:163:ALA:H	1.35	0.90
41:BP:140:ALA:HB1	25:D3:38:GLU:HG2	1.53	0.90
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.37	0.90
31:DA:1028:A:N6	31:DA:1125:G:H2'	1.86	0.90
41:DP:16:ARG:HG3	41:DP:16:ARG:NH1	1.74	0.90
1:AA:134:A:N6	16:AP:25:ARG:HH12	1.70	0.90
24:B2:25:VAL:HG13	24:B2:26:ARG:HD3	1.54	0.90
31:BA:925:C:H2'	31:BA:926:A:H5''	1.53	0.90
32:BB:87:G:H3'	32:BB:88:C:H5''	1.50	0.90
50:BY:76:CYS:SG	50:BY:77:PRO:HD2	2.12	0.90
31:DA:1509(A):A:H2'	31:DA:1509(B):A:C8	2.06	0.90
33:DD:71:ASP:HB2	33:DD:103:ARG:NH2	1.86	0.90
41:DP:118:GLY:O	41:DP:119:GLU:HG2	1.70	0.90
41:DP:121:LYS:HG2	41:DP:122:PRO:HD2	1.54	0.90
1:AA:445:G:H2'	1:AA:446:G:C8	2.06	0.90
24:B2:16:LEU:N	24:B2:18:PRO:HD2	1.87	0.90
35:BF:66:PRO:O	35:BF:67:GLN:HB3	1.70	0.90
1:CA:862:C:H2'	1:CA:863:U:H5'	1.54	0.90
31:DA:1678:G:N2	31:DA:1989:G:H22	1.69	0.90
39:DN:42:TRP:HA	39:DN:48:MET:CE	2.01	0.90
30:B8:31:HIS:CG	31:BA:2419:U:O4	2.25	0.90
33:BD:25:THR:HG21	33:BD:81:ALA:CB	2.01	0.90

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:13:ILE:HG12	23:D1:14:VAL:N	1.86	0.90
31:DA:2523:G:H2'	31:DA:2524:G:H5''	1.54	0.90
31:DA:2562:U:H1'	40:DO:23:ARG:HH12	1.38	0.90
37:DH:85:LYS:HD3	37:DH:133:VAL:HB	1.53	0.90
48:DW:88:ARG:HB3	48:DW:92:ARG:HB3	1.52	0.90
49:DX:25:LYS:HE3	49:DX:26:TYR:HE1	1.37	0.90
2:AB:55:PHE:CE1	2:AB:218:ALA:HA	2.08	0.89
35:BF:22:ALA:O	35:BF:26:ALA:HB2	1.71	0.89
41:BP:59:LEU:HA	41:BP:61:ARG:HH11	1.31	0.89
48:DW:75:TYR:HE1	48:DW:104:THR:HB	1.32	0.89
38:BI:133:HIS:HB2	38:BI:134:PRO:CD	2.01	0.89
45:BT:65:LYS:HE3	45:BT:66:VAL:H	1.36	0.89
32:DB:25:A:H2'	32:DB:26:A:C8	2.07	0.89
33:DD:44:ASN:HB3	33:DD:49:ILE:HA	1.54	0.89
31:BA:1146:C:C2'	31:BA:1147:C:H5'	2.02	0.89
41:BP:41:ARG:NH2	41:BP:41:ARG:HA	1.86	0.89
42:BQ:22:LYS:HE2	42:BQ:22:LYS:HA	1.55	0.89
51:BZ:10:ARG:HH21	51:BZ:26:GLY:H	1.14	0.89
28:D6:20:ASN:ND2	28:D6:21:TYR:H	1.70	0.89
31:DA:676:A:H8	31:DA:2069:G:H21	0.92	0.89
42:DQ:23:GLY:HA3	42:DQ:99:PRO:O	1.72	0.89
31:BA:1603:A:H5'	31:BA:1603:A:H8	1.38	0.89
31:BA:1747(A):G:C2'	31:BA:1748:G:H5''	2.02	0.89
32:BB:15:A:H5'	32:BB:16:G:H8	1.33	0.89
47:BV:61:VAL:O	47:BV:62:LEU:HD23	1.73	0.89
31:DA:1779:U:C5	31:DA:1784:A:N7	2.39	0.89
31:DA:2359:C:C2'	31:DA:2360:A:H5'	2.03	0.89
33:DD:27:THR:CG2	33:DD:28:GLU:H	1.85	0.89
4:AD:209:ARG:HH11	4:AD:209:ARG:CG	1.84	0.89
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.72	0.89
30:B8:25:MET:HB2	41:BP:62:LEU:HD23	1.52	0.89
31:DA:2830:G:H5'	31:DA:2830:G:H8	1.37	0.89
46:DU:92:ARG:HD2	47:DV:11:GLN:NE2	1.86	0.89
39:BN:42:TRP:CA	39:BN:48:MET:HE1	1.98	0.89
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.52	0.89
24:D2:33:MET:HG2	49:DX:11:PRO:HD2	1.53	0.89
31:DA:1771:C:HO2'	31:DA:1786:A:H8	1.18	0.89
31:DA:2468:G:H5''	42:DQ:120:ILE:HD12	1.54	0.89
31:DA:2506:U:H4'	31:DA:2507:C:OP1	1.71	0.89
1:AA:1238:A:H62	1:AA:1299:A:N6	1.71	0.89
1:AA:1281:U:H4'	1:AA:1282:C:OP2	1.70	0.89

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BX:77:LYS:CG	49:BX:78:LYS:HG3	2.02	0.89
50:BY:46:LYS:C	50:BY:47:LYS:HZ3	1.76	0.89
1:CA:365:U:H5''	1:CA:366:C:OP1	1.72	0.89
3:CC:116:VAL:HG21	3:CC:202:ILE:HD11	1.55	0.89
31:DA:1688:U:H1'	31:DA:1701:A:C6	2.07	0.89
33:DD:25:THR:HG22	33:DD:82:ILE:O	1.73	0.89
1:AA:1238:A:H62	1:AA:1299:A:H62	1.20	0.89
28:B6:10:LEU:H	28:B6:10:LEU:CD2	1.85	0.89
50:BY:71:LYS:HB2	50:BY:71:LYS:NZ	1.85	0.89
1:CA:954:G:H21	1:CA:1227:A:H62	1.16	0.89
23:D1:78:LYS:HG2	31:DA:271(R):G:H4'	1.54	0.89
31:DA:796:C:H2'	31:DA:797:C:C6	2.08	0.89
11:AK:96:ARG:O	11:AK:99:GLN:HG2	1.73	0.89
37:BH:89:ILE:HD13	37:BH:90:LYS:H	1.38	0.89
5:CE:126:ARG:HH11	5:CE:126:ARG:HG3	1.38	0.89
6:CF:34:GLY:H	6:CF:71:ARG:NH2	1.70	0.89
24:D2:16:LEU:N	24:D2:18:PRO:HD2	1.87	0.89
25:D3:8:LEU:HB2	25:D3:28:LEU:HD13	1.55	0.89
31:DA:1568:G:H21	33:DD:58:HIS:HE1	1.16	0.89
31:BA:1771:C:HO2'	31:BA:1786:A:H8	1.15	0.88
43:BR:5:LYS:N	43:BR:5:LYS:HD2	1.88	0.88
49:BX:33:LYS:C	49:BX:35:THR:H	1.76	0.88
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.38	0.88
11:CK:96:ARG:O	11:CK:99:GLN:HG2	1.72	0.88
47:DV:19:LYS:HG3	47:DV:20:LEU:N	1.88	0.88
2:AB:91:PRO:HG3	2:AB:154:LEU:HB2	1.52	0.88
31:BA:1411:C:H2'	31:BA:1412:A:C8	2.08	0.88
31:BA:1509(A):A:H2'	31:BA:1509(B):A:C8	2.08	0.88
31:BA:2468:G:H5''	42:BQ:120:ILE:HD12	1.55	0.88
55:BA:3362:TEL:H11	55:BA:3362:TEL:H143	1.47	0.88
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.08	0.88
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.35	0.88
4:AD:128:VAL:HG13	4:AD:129:ASN:ND2	1.87	0.88
39:BN:42:TRP:HB3	46:BU:64:ARG:NH1	1.87	0.88
41:BP:51:PHE:O	41:BP:52:GLU:HB2	1.72	0.88
42:BQ:23:GLY:HA3	42:BQ:99:PRO:O	1.72	0.88
5:CE:6:PHE:HB2	5:CE:34:VAL:HG12	1.56	0.88
1:AA:877:C:H5''	8:AH:88:LYS:HE3	1.56	0.88
30:B8:32:LEU:C	30:B8:34:TRP:H	1.76	0.88
31:BA:774:A:H2	31:BA:787:U:O2'	1.56	0.88
31:BA:1047:G:N2	31:BA:1111:A:H62	1.71	0.88

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:19:LYS:CG	47:BV:20:LEU:H	1.84	0.88
50:BY:75:ILE:HD11	50:BY:79:CYS:HA	1.54	0.88
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.55	0.88
31:DA:2829:C:H2'	31:DA:2830:G:H5''	1.56	0.88
49:DX:12:VAL:HG12	49:DX:27:THR:O	1.73	0.88
31:BA:1019:U:H3	31:BA:1142(A):A:H62	0.90	0.88
36:BG:106:LEU:HA	36:BG:110:ALA:HB3	1.53	0.88
41:BP:105:LEU:H	41:BP:105:LEU:HD12	1.39	0.88
46:DU:75:ASN:HB2	46:DU:78:THR:OG1	1.74	0.88
31:BA:1388:G:O2'	31:BA:1389:G:H5'	1.73	0.88
31:DA:579:G:H2'	31:DA:580:C:C6	2.09	0.88
31:DA:662:G:OP1	41:DP:18:ARG:HD2	1.74	0.88
33:DD:25:THR:HG23	33:DD:27:THR:HB	1.53	0.88
38:DI:88:ILE:HG13	38:DI:121:LYS:CA	2.03	0.88
38:DI:133:HIS:HB2	38:DI:134:PRO:CD	2.02	0.88
41:DP:30:THR:HG22	41:DP:31:ALA:H	1.37	0.88
1:AA:1483:A:H1'	31:BA:1948:G:H1'	1.55	0.88
5:AE:10:MET:HB2	5:AE:32:VAL:HG22	1.52	0.88
31:BA:1430:C:H2'	31:BA:1431:U:C6	2.08	0.88
31:BA:2712:U:O2	31:BA:2712:U:H5'	1.73	0.88
33:BD:25:THR:HG23	33:BD:27:THR:HB	1.55	0.88
42:BQ:141:GLN:HE22	51:BZ:89:PHE:HB3	1.38	0.88
1:CA:736:C:H2'	1:CA:737:A:H8	1.36	0.88
31:DA:2656:U:H3	31:DA:2665:A:H2	1.21	0.88
46:DU:83:LEU:CG	46:DU:88:ILE:HG12	2.04	0.88
1:AA:430:A:C2'	1:AA:431:A:H5'	2.04	0.88
8:AH:102:ARG:H	8:AH:102:ARG:HE	1.21	0.88
23:B1:19:GLN:OE1	23:B1:44:PRO:HB3	1.74	0.88
31:BA:996:A:H4'	46:BU:92:ARG:HE	1.37	0.88
47:BV:69:LYS:HB3	47:BV:93:GLU:OE2	1.74	0.88
1:CA:134:A:N6	16:CP:25:ARG:HH12	1.71	0.88
33:DD:80:ALA:HB3	33:DD:94:LEU:HD13	1.54	0.88
23:B1:19:GLN:HE21	31:BA:379:G:N2	1.70	0.88
31:BA:71:A:H5'	31:BA:71:A:C8	2.09	0.88
31:BA:2327:A:H2'	31:BA:2328:A:C8	2.09	0.88
37:BH:106:THR:HG22	37:BH:112:PRO:HB3	1.56	0.88
49:BX:35:THR:HB	49:BX:75:ASP:OD2	1.72	0.88
50:DY:17:SER:HB3	50:DY:71:LYS:HD2	1.53	0.88
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.36	0.88
10:CJ:26:ALA:HB1	10:CJ:29:ARG:HH21	1.39	0.88
48:DW:18:ARG:HH11	48:DW:18:ARG:HG2	1.36	0.88

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:27:VAL:HG23	51:DZ:36:LYS:HA	1.54	0.88
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.37	0.87
31:BA:2729:G:H1'	34:BE:187:ALA:HB2	1.53	0.87
41:BP:29:LYS:HD2	41:BP:29:LYS:N	1.88	0.87
1:CA:922:G:H4'	5:CE:20:GLN:CA	2.04	0.87
45:DT:91:ARG:HB3	45:DT:116:ALA:HA	1.53	0.87
51:DZ:53:ILE:CG2	51:DZ:71:VAL:HB	2.03	0.87
28:B6:9:LEU:HD22	28:B6:10:LEU:N	1.88	0.87
32:BB:67:G:C4	32:BB:68:C:H5	1.92	0.87
33:BD:65:ILE:HD11	33:BD:67:PHE:CD1	2.10	0.87
46:BU:92:ARG:CD	47:BV:11:GLN:HE21	1.85	0.87
48:BW:18:ARG:HG2	48:BW:18:ARG:HH11	1.39	0.87
2:CB:91:PRO:HG3	2:CB:154:LEU:HB2	1.55	0.87
31:DA:1411:C:H2'	31:DA:1412:A:C8	2.09	0.87
51:DZ:53:ILE:HG22	51:DZ:71:VAL:HB	1.56	0.87
31:DA:2265:U:H4'	42:DQ:13:GLN:HE22	1.39	0.87
33:DD:244:ARG:HG2	33:DD:245:PRO:HD3	1.55	0.87
50:DY:81:LYS:HG2	50:DY:96:ILE:HG22	1.55	0.87
23:B1:13:ILE:HG12	23:B1:14:VAL:N	1.89	0.87
30:B8:34:TRP:O	30:B8:35:GLN:HB2	1.75	0.87
31:BA:2334:G:H21	44:BS:18:ILE:CD1	1.87	0.87
31:DA:1833:U:H2'	31:DA:1834:U:H6	1.40	0.87
38:DI:82:ARG:HB3	38:DI:89:TYR:HE1	1.39	0.87
41:DP:47:ASP:HB3	41:DP:48:PRO:C	1.94	0.87
49:DX:82:GLN:O	49:DX:85:PRO:HD2	1.74	0.87
10:AJ:26:ALA:HB1	10:AJ:29:ARG:HH21	1.39	0.87
30:B8:52:LYS:N	30:B8:53:PRO:HD2	1.89	0.87
31:DA:2870:C:H2'	31:DA:2871:C:H5'	1.54	0.87
34:DE:38:THR:HG22	34:DE:40:GLU:H	1.38	0.87
41:DP:105:LEU:H	41:DP:105:LEU:HD12	1.38	0.87
1:CA:685:G:O2'	1:CA:686:U:H5'	1.74	0.87
1:CA:922:G:H1'	5:CE:19:MET:CB	2.05	0.87
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.08	0.87
30:D8:59:LYS:HD3	41:DP:50:ARG:HB3	1.57	0.87
31:DA:1796:U:H2'	31:DA:1797:C:C6	2.09	0.87
43:DR:5:LYS:N	43:DR:5:LYS:HD2	1.90	0.87
45:DT:33:LYS:HB3	45:DT:41:ARG:HB3	1.56	0.87
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.39	0.87
31:BA:1188:U:H2'	31:BA:1189:A:H5'	1.57	0.87
31:BA:2506:U:H4'	31:BA:2507:C:OP1	1.75	0.87
1:CA:1238:A:H62	1:CA:1299:A:N6	1.71	0.87

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:102:ARG:HE	8:CH:102:ARG:H	1.22	0.87
31:DA:1022:G:H22	31:DA:1142(A):A:H2	1.22	0.87
33:DD:27:THR:HG23	33:DD:28:GLU:N	1.89	0.87
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.55	0.87
23:B1:64:ALA:HA	23:B1:67:ILE:HG13	1.57	0.87
31:BA:1568:G:H21	33:BD:58:HIS:CE1	1.93	0.87
25:D3:19:GLN:O	25:D3:23:LEU:HD12	1.75	0.87
30:D8:31:HIS:CG	31:DA:2419:U:O4	2.26	0.87
31:DA:288:C:H42	31:DA:353:G:H1	1.21	0.87
31:DA:848:G:H2'	31:DA:849:A:C8	2.10	0.87
31:DA:1509(A):A:H2'	31:DA:1509(B):A:H8	1.39	0.87
31:DA:2068:U:H3	31:DA:2430:A:H2	1.16	0.87
43:DR:71:GLN:HA	43:DR:71:GLN:HE21	1.39	0.87
45:DT:29:ARG:CB	45:DT:85:LYS:HA	2.05	0.87
24:B2:33:MET:HG2	49:BX:11:PRO:HD2	1.56	0.87
43:BR:33:ARG:HG2	43:BR:115:GLU:HG2	1.56	0.87
50:BY:81:LYS:HG2	50:BY:96:ILE:HG22	1.56	0.87
1:CA:1238:A:H62	1:CA:1299:A:H62	1.21	0.87
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.57	0.87
49:DX:77:LYS:CG	49:DX:78:LYS:HG3	2.05	0.87
24:B2:56:GLN:HA	24:B2:56:GLN:NE2	1.88	0.86
31:BA:806:C:OP2	41:BP:39:LYS:HD2	1.74	0.86
31:BA:1332:G:N2	31:BA:1610:A:H8	1.73	0.86
1:CA:254:G:OP1	17:CQ:67:LYS:O	1.93	0.86
2:CB:55:PHE:CE1	2:CB:218:ALA:HA	2.09	0.86
22:D0:74:ARG:HG2	32:DB:12:C:O2'	1.75	0.86
23:D1:64:ALA:O	23:D1:65:SER:HB3	1.74	0.86
31:DA:61:G:H1	31:DA:94:C:H42	1.23	0.86
31:DA:69:C:H2'	31:DA:69:C:O2	1.73	0.86
1:AA:1142:G:H3'	1:AA:1143:G:H8	1.40	0.86
1:AA:1502:A:H2	1:AA:1505:G:H1	0.90	0.86
31:BA:1639:U:C2'	31:BA:1640:C:H5''	2.05	0.86
31:DA:1747(A):G:C2'	31:DA:1748:G:H5''	2.04	0.86
39:DN:18:ALA:HB3	39:DN:26:LEU:HD22	1.54	0.86
1:AA:1063:C:H3'	1:AA:1064:G:H2'	1.57	0.86
36:BG:16:ARG:HA	36:BG:19:LEU:HD12	1.57	0.86
1:CA:192:U:H2'	1:CA:193:C:H6	1.40	0.86
32:DB:94:C:H2'	32:DB:95:C:H6	1.40	0.86
33:DD:25:THR:HG21	33:DD:81:ALA:CB	2.00	0.86
48:DW:9:TYR:H	48:DW:102:HIS:CD2	1.94	0.86
46:BU:83:LEU:CG	46:BU:88:ILE:HG12	2.04	0.86

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1063:C:H3'	1:CA:1064:G:H2'	1.55	0.86
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.58	0.86
31:DA:743:G:C2'	31:DA:744:G:H5'	2.05	0.86
31:BA:107:C:H2'	31:BA:108:U:H6	1.40	0.86
31:BA:1902:C:H1'	33:BD:244:ARG:HD3	1.54	0.86
31:BA:2199:A:H3'	31:BA:2200:C:H6	1.37	0.86
1:CA:67:C:H2'	1:CA:68:G:C8	2.11	0.86
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.56	0.86
31:DA:2753:A:O2'	31:DA:2754:U:H5'	1.75	0.86
35:DF:184:TYR:CE2	35:DF:188:ARG:HD2	2.10	0.86
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.58	0.86
22:B0:74:ARG:HG2	32:BB:12:C:O2'	1.76	0.86
31:BA:847:U:O4	31:BA:933:A:N6	2.08	0.86
48:BW:88:ARG:HB3	48:BW:92:ARG:HB3	1.57	0.86
24:D2:51:ARG:O	24:D2:52:ASP:HB3	1.76	0.86
31:DA:2317:C:H2'	31:DA:2318:G:C5'	2.05	0.86
42:DQ:141:GLN:HE22	51:DZ:89:PHE:HB3	1.41	0.86
1:AA:192:U:H2'	1:AA:193:C:H6	1.39	0.86
31:BA:2753:A:O2'	31:BA:2754:U:H5'	1.76	0.86
33:BD:44:ASN:HB3	33:BD:49:ILE:HA	1.58	0.86
33:BD:77:ALA:HB2	33:BD:97:TYR:CD2	2.09	0.86
31:DA:1169:G:H1	31:DA:1180:C:H42	0.86	0.86
31:DA:2324:C:H5''	31:DA:2325:G:H5'	1.57	0.86
33:DD:77:ALA:HB2	33:DD:97:TYR:CD2	2.10	0.86
37:DH:106:THR:HG22	37:DH:112:PRO:HB3	1.56	0.86
45:DT:88:ILE:HG22	45:DT:89:VAL:N	1.91	0.86
51:DZ:74:VAL:HG22	51:DZ:86:VAL:HG12	1.54	0.86
41:BP:58:THR:O	41:BP:61:ARG:CZ	2.24	0.86
34:DE:52:LEU:HB2	34:DE:76:ARG:HB2	1.58	0.86
39:DN:42:TRP:CA	39:DN:48:MET:HE1	2.01	0.86
23:B1:89:GLU:CD	23:B1:89:GLU:H	1.79	0.86
24:B2:14:ARG:NH1	24:B2:57:ILE:HG21	1.91	0.86
42:BQ:8:LYS:HD2	42:BQ:9:TYR:H	1.40	0.86
16:CP:4:ILE:HG13	16:CP:21:VAL:HG12	1.57	0.86
43:DR:11:ASN:OD1	43:DR:12:ARG:N	2.09	0.86
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.10	0.86
31:BA:1171:G:H8	31:BA:1171:G:OP2	1.59	0.86
33:BD:35:LYS:HD2	33:BD:104:TYR:CE1	2.10	0.86
31:DA:795:C:O2'	31:DA:796:C:H5'	1.76	0.86
31:DA:993:G:N3	47:DV:91:TYR:HE1	1.72	0.86
31:BA:330:A:H2	31:BA:1210:A:H2'	1.39	0.85

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1434:A:H61	31:BA:1558:A:N6	1.73	0.85
31:BA:2523:G:H2'	31:BA:2524:G:H5''	1.57	0.85
43:BR:9:LYS:O	43:BR:10:LEU:HG	1.74	0.85
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.39	0.85
24:D2:26:ARG:HG3	49:DX:5:TYR:O	1.76	0.85
31:DA:954:G:H5''	42:DQ:13:GLN:CG	2.06	0.85
31:DA:2830:G:H5'	31:DA:2830:G:C8	2.09	0.85
40:DO:104:ARG:CZ	45:DT:33:LYS:HD2	2.05	0.85
42:DQ:24:GLY:HA3	51:DZ:78:LYS:HD3	1.58	0.85
50:DY:71:LYS:HB2	50:DY:71:LYS:NZ	1.87	0.85
1:AA:624:C:H4'	16:AP:10:GLY:HA2	1.57	0.85
31:BA:1569:A:H5'	33:BD:61:LEU:HD21	1.56	0.85
24:D2:57:ILE:HG12	24:D2:59:ARG:NH1	1.91	0.85
31:DA:107:C:H2'	31:DA:108:U:H6	1.41	0.85
31:DA:1190:G:H4'	41:DP:35:HIS:HB3	1.56	0.85
31:DA:1658:C:OP1	34:DE:132:HIS:CE1	2.29	0.85
24:B2:26:ARG:CG	49:BX:5:TYR:HB3	2.07	0.85
24:D2:25:VAL:HG13	24:D2:26:ARG:HD3	1.57	0.85
31:DA:1040:C:N4	31:DA:1116:C:H42	1.73	0.85
31:DA:1434:A:H61	31:DA:1558:A:N6	1.73	0.85
31:DA:1569:A:H5'	33:DD:61:LEU:HD21	1.56	0.85
31:DA:1639:U:C2'	31:DA:1640:C:H5''	2.06	0.85
42:DQ:140:ALA:HB3	51:DZ:53:ILE:HG13	1.59	0.85
44:DS:63:THR:HA	44:DS:66:ALA:HB3	1.57	0.85
1:AA:56:U:H2'	1:AA:57:G:C8	2.11	0.85
1:AA:685:G:O2'	1:AA:686:U:H5'	1.75	0.85
4:AD:209:ARG:HH11	4:AD:209:ARG:HG2	1.40	0.85
16:AP:4:ILE:HG13	16:AP:21:VAL:HG12	1.57	0.85
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.57	0.85
24:B2:30:ARG:HD2	24:B2:30:ARG:H	1.41	0.85
35:BF:198:ALA:O	35:BF:201:VAL:HG12	1.76	0.85
41:DP:59:LEU:HA	41:DP:61:ARG:HH11	1.40	0.85
23:B1:78:LYS:HG2	31:BA:271(R):G:H4'	1.55	0.85
28:B6:17:LYS:C	28:B6:18:ARG:HD3	1.97	0.85
31:BA:343:C:H2'	31:BA:344:G:H5'	1.59	0.85
31:BA:1040:C:N4	31:BA:1116:C:H42	1.72	0.85
31:BA:2324:C:H5''	31:BA:2325:G:H5'	1.58	0.85
1:CA:1502:A:H2	1:CA:1505:G:H1	0.87	0.85
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.56	0.85
23:D1:9:GLY:O	23:D1:10:LYS:HB3	1.77	0.85
23:D1:19:GLN:OE1	23:D1:44:PRO:HB3	1.76	0.85

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:35:GLN:HE21	30:D8:36:LYS:HZ3	1.21	0.85
31:DA:1171:G:H8	31:DA:1171:G:OP2	1.59	0.85
31:DA:2206:G:C2	31:DA:2207:G:H5'	2.11	0.85
35:BF:24:LEU:HB3	35:BF:25:PRO:CD	2.07	0.85
31:DA:2523:G:C2'	31:DA:2524:G:H5''	2.07	0.85
41:DP:58:THR:O	41:DP:61:ARG:NE	2.10	0.85
3:AC:116:VAL:HG21	3:AC:202:ILE:HD11	1.58	0.85
6:AF:34:GLY:H	6:AF:71:ARG:NH2	1.73	0.85
31:BA:587:C:H4'	31:BA:588:U:OP2	1.77	0.85
31:BA:1882:C:H5'	31:BA:1883:G:OP2	1.77	0.85
34:BE:111:ARG:HA	43:BR:2:ARG:HG3	1.57	0.85
45:BT:28:VAL:HG22	45:BT:46:GLU:HA	1.58	0.85
31:DA:2287:A:N6	31:DA:2344:U:N3	2.24	0.85
31:DA:2564:A:C2	31:DA:2647:U:H4'	2.10	0.85
34:DE:38:THR:HB	34:DE:41:LYS:HG3	1.59	0.85
38:DI:72:LEU:HD13	38:DI:75:LEU:HB3	1.58	0.85
42:DQ:20:ALA:HB2	42:DQ:99:PRO:HG2	1.56	0.85
1:AA:192:U:H4'	20:AT:57:ARG:HD2	1.57	0.85
24:B2:26:ARG:HG3	49:BX:5:TYR:O	1.76	0.85
1:CA:15:G:O6	1:CA:922:G:N2	2.10	0.85
1:CA:709:G:H2'	1:CA:710:G:H8	1.41	0.85
1:CA:1342:C:H1'	9:CI:124:GLN:HE22	1.40	0.85
30:D8:14:VAL:HG11	30:D8:22:VAL:HG13	1.59	0.85
31:DA:27:G:N2	31:DA:512:G:C2'	2.38	0.85
31:DA:1458:C:H4'	31:DA:1459:G:C4	2.11	0.85
1:AA:1422:G:H5''	40:BO:48:PRO:HA	1.58	0.85
13:AM:69:GLU:HB2	13:AM:70:LEU:N	1.92	0.85
30:B8:61:LEU:HD13	31:BA:593:G:H4'	1.58	0.85
55:BA:3362:TEL:H382	55:BA:3362:TEL:O18	1.76	0.85
33:BD:80:ALA:HB3	33:BD:94:LEU:HD13	1.56	0.85
38:BI:82:ARG:HD2	38:BI:89:TYR:OH	1.76	0.85
1:CA:430:A:C2'	1:CA:431:A:H5'	2.06	0.85
7:CG:4:ARG:HB3	7:CG:5:ARG:HH11	1.42	0.85
13:CM:69:GLU:HB2	13:CM:70:LEU:N	1.91	0.85
45:DT:55:ASN:N	45:DT:59:THR:HB	1.90	0.85
47:DV:72:VAL:C	47:DV:88:ARG:HH22	1.80	0.85
30:B8:62:LEU:HD13	31:BA:242:G:C5'	2.06	0.85
31:BA:1688:U:H1'	31:BA:1701:A:C6	2.11	0.85
31:BA:2723:C:H5''	43:BR:2:ARG:CD	2.07	0.85
41:BP:95:VAL:HA	41:BP:99:LEU:HD23	1.58	0.85
41:BP:140:ALA:CB	25:D3:38:GLU:HG2	2.06	0.85

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2845:G:O2'	31:BA:2846:G:H5'	1.76	0.84
35:BF:65:TRP:CZ3	35:BF:75:HIS:CD2	2.64	0.84
39:BN:25:ARG:HG3	39:BN:25:ARG:HH11	1.40	0.84
41:BP:141:ALA:C	25:D3:1:MET:HE1	1.97	0.84
31:DA:774:A:H2	31:DA:787:U:O2'	1.59	0.84
55:DA:3320:TEL:H382	55:DA:3320:TEL:O18	1.76	0.84
37:DH:44:VAL:HG12	37:DH:45:VAL:H	1.42	0.84
1:AA:67:C:H2'	1:AA:68:G:C8	2.12	0.84
1:AA:254:G:OP1	17:AQ:67:LYS:O	1.94	0.84
23:B1:41:ARG:HG3	23:B1:41:ARG:NH1	1.86	0.84
24:B2:14:ARG:O	24:B2:18:PRO:HD3	1.77	0.84
31:BA:1499:C:O2'	31:BA:1500:G:H5'	1.76	0.84
42:BQ:24:GLY:HA3	51:BZ:78:LYS:HD3	1.59	0.84
47:BV:19:LYS:HG3	47:BV:20:LEU:N	1.89	0.84
2:CB:93:VAL:HG11	2:CB:97:TRP:HD1	1.41	0.84
30:D8:4:MET:SD	30:D8:61:LEU:HD12	2.17	0.84
31:DA:942:G:O2'	31:DA:943:U:H5'	1.77	0.84
40:DO:13:ASN:HD21	40:DO:97:ARG:N	1.75	0.84
41:DP:95:VAL:HA	41:DP:99:LEU:HD23	1.59	0.84
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.42	0.84
5:AE:6:PHE:HB2	5:AE:34:VAL:HG12	1.58	0.84
31:BA:142:A:C8	31:BA:1408:C:H1'	2.13	0.84
31:BA:1170:G:H1	31:BA:1179:C:H42	1.25	0.84
31:BA:1887:C:H2'	31:BA:1888:G:H5'	1.58	0.84
42:BQ:140:ALA:HB3	51:BZ:53:ILE:HG13	1.60	0.84
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.57	0.84
31:DA:1501:C:H2'	31:DA:1502:C:H6	1.40	0.84
31:DA:1528:A:N1	31:DA:1544:A:N6	2.25	0.84
31:DA:2199:A:H3'	31:DA:2200:C:C6	2.12	0.84
31:DA:2680:C:H5'	34:DE:189:PRO:HA	1.59	0.84
35:DF:185:ASP:HA	35:DF:188:ARG:HD3	1.58	0.84
1:AA:659:U:H2'	1:AA:660:G:H5'	1.57	0.84
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.56	0.84
31:BA:796:C:H2'	31:BA:797:C:C6	2.12	0.84
31:BA:911:A:C6	42:BQ:9:TYR:HE2	1.94	0.84
31:BA:1313:U:H2'	31:BA:1610:A:C2	2.13	0.84
31:BA:2523:G:H2'	31:BA:2524:G:C5'	2.07	0.84
25:D3:8:LEU:HD13	25:D3:31:LEU:HA	1.58	0.84
31:DA:587:C:H4'	31:DA:588:U:OP2	1.75	0.84
31:DA:2712:U:H5'	31:DA:2712:U:O2	1.77	0.84
33:DD:147:LEU:HD13	33:DD:155:LEU:HD11	1.57	0.84

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:111:ARG:HA	43:DR:2:ARG:HG3	1.59	0.84
47:DV:47:VAL:HG13	47:DV:48:GLY:H	1.42	0.84
12:AL:43:VAL:HG22	12:AL:55:VAL:HG21	1.59	0.84
31:BA:1690:A:H3'	31:BA:1691:C:H6	1.42	0.84
31:BA:2415:G:C4'	41:BP:67:MET:H	1.90	0.84
1:CA:382:A:H2'	1:CA:383:A:C8	2.13	0.84
4:CD:138:TYR:HD2	4:CD:139:ARG:N	1.75	0.84
31:DA:910:A:H62	42:DQ:12:GLN:HA	1.42	0.84
35:DF:89:VAL:HG12	35:DF:90:PHE:N	1.91	0.84
39:DN:120:LEU:CD1	39:DN:122:VAL:HG23	2.07	0.84
4:AD:138:TYR:HD2	4:AD:139:ARG:N	1.74	0.84
31:BA:1459:G:C8	31:BA:1461:G:H1'	2.13	0.84
31:BA:1882:C:O2	31:BA:1882:C:H2'	1.77	0.84
31:BA:1945:G:C2'	31:BA:1946:U:H5'	2.06	0.84
41:BP:101:VAL:HB	41:BP:107:LYS:H	1.43	0.84
49:BX:41:ASN:HA	49:BX:44:GLU:HG2	1.59	0.84
50:BY:39:VAL:HG12	50:BY:40:GLU:N	1.91	0.84
1:CA:67:C:H2'	1:CA:68:G:H8	1.43	0.84
31:DA:2723:C:H5''	43:DR:2:ARG:CD	2.06	0.84
2:AB:163:PHE:HA	2:AB:185:ILE:HG13	1.59	0.84
7:AG:4:ARG:HB3	7:AG:5:ARG:HH11	1.43	0.84
23:B1:9:GLY:O	23:B1:10:LYS:HB3	1.76	0.84
31:BA:1028:A:N6	31:BA:1125:G:H2'	1.92	0.84
31:BA:1339:G:H21	31:BA:1603:A:H1'	1.38	0.84
41:BP:146:VAL:HG13	41:BP:147:LEU:H	1.42	0.84
44:BS:39:ILE:HG12	44:BS:73:LEU:HD11	1.60	0.84
1:CA:1184:G:H2'	1:CA:1185:G:H8	1.41	0.84
30:D8:25:MET:HG3	41:DP:64:LYS:CB	2.08	0.84
31:DA:141:A:H8	31:DA:1408:C:HO2'	1.20	0.84
31:DA:911:A:C6	42:DQ:9:TYR:HE2	1.94	0.84
1:AA:389:A:H2'	1:AA:390:C:H5'	1.58	0.84
1:AA:1432:G:OP1	45:BT:107:ASP:HB2	1.77	0.84
12:AL:102:ARG:HH11	12:AL:102:ARG:HG3	1.42	0.84
39:BN:120:LEU:CD1	39:BN:122:VAL:HG23	2.06	0.84
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.13	0.84
1:CA:1442:G:N7	1:CA:1442(B):A:H2	1.74	0.84
31:DA:1019:U:H3	31:DA:1142(A):A:N6	1.75	0.84
31:DA:1528(A):A:H3'	31:DA:1529:G:H5''	1.59	0.84
1:AA:382:A:H2'	1:AA:383:A:C8	2.12	0.84
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.78	0.84
31:BA:2206:G:C2	31:BA:2207:G:H5'	2.13	0.84

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:17:C:H2'	32:BB:17:C:O2	1.78	0.84
45:BT:29:ARG:CB	45:BT:85:LYS:HA	2.06	0.84
1:CA:921:U:C1'	1:CA:922:G:C4	2.52	0.84
23:D1:41:ARG:HG3	23:D1:41:ARG:NH1	1.87	0.84
23:D1:89:GLU:CD	23:D1:89:GLU:H	1.81	0.84
31:DA:1024:G:H3'	31:DA:1025:G:H5''	1.59	0.84
32:DB:75:G:H5'	32:DB:75:G:H8	1.41	0.84
35:DF:101:LEU:HD12	35:DF:102:PRO:CD	2.08	0.84
42:DQ:8:LYS:HD2	42:DQ:9:TYR:H	1.42	0.84
1:AA:96:U:HO2'	1:AA:97:G:H8	1.24	0.84
1:AA:445:G:H2'	1:AA:446:G:H8	1.38	0.84
31:BA:2829:C:H2'	31:BA:2830:G:H5''	1.60	0.84
47:BV:32:THR:HG22	47:BV:33:VAL:H	1.42	0.84
49:BX:72:LYS:HG3	49:BX:73:ARG:N	1.92	0.84
23:D1:27:GLU:OE2	23:D1:32:LYS:HB2	1.76	0.84
23:D1:64:ALA:HA	23:D1:67:ILE:HG13	1.60	0.84
24:D2:30:ARG:H	24:D2:30:ARG:HD2	1.42	0.84
31:DA:330:A:H2	31:DA:1210:A:H2'	1.42	0.84
31:DA:2801(A):A:H4'	31:DA:2802:G:H5'	1.60	0.84
32:DB:17:C:O2	32:DB:17:C:H2'	1.78	0.84
33:DD:131:LEU:HB2	33:DD:136:ILE:HD11	1.59	0.84
35:DF:24:LEU:HB3	35:DF:25:PRO:CD	2.07	0.84
39:DN:13:TRP:O	39:DN:135:PRO:HG2	1.78	0.84
41:DP:71:VAL:HG12	41:DP:72:PRO:HD3	1.59	0.84
32:BB:75:G:H8	32:BB:75:G:H5'	1.42	0.83
33:BD:131:LEU:HB2	33:BD:136:ILE:HD11	1.58	0.83
34:BE:38:THR:HB	34:BE:41:LYS:HG3	1.59	0.83
31:DA:1028:A:H61	31:DA:1125:G:H2'	1.42	0.83
1:AA:1399:C:C2	1:AA:1502:A:N6	2.46	0.83
31:BA:2580:U:C5'	34:BE:131:ALA:H	1.90	0.83
31:BA:2801(A):A:H4'	31:BA:2802:G:H5'	1.60	0.83
49:BX:70:LEU:HG	49:BX:71:GLY:N	1.93	0.83
1:CA:1112:C:N3	3:CC:178:LEU:HD23	1.93	0.83
1:CA:1142:G:H3'	1:CA:1143:G:H8	1.41	0.83
23:D1:26:ARG:HB3	23:D1:34:THR:HA	1.57	0.83
31:DA:1047:G:N2	31:DA:1111:A:H62	1.74	0.83
31:DA:1973:G:H2'	31:DA:1974:C:H6	1.42	0.83
31:DA:2359:C:H2'	31:DA:2360:A:H5'	1.59	0.83
37:DH:66:GLY:HA2	37:DH:69:ARG:HB2	1.59	0.83
44:DS:97:ARG:C	44:DS:97:ARG:HE	1.81	0.83
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.41	0.83

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:71:A:H2	49:BX:31:HIS:CE1	1.96	0.83
39:BN:13:TRP:O	39:BN:135:PRO:HG2	1.78	0.83
47:BV:73:SER:OG	47:BV:74:LYS:N	2.09	0.83
4:CD:209:ARG:HH11	4:CD:209:ARG:HG2	1.41	0.83
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.44	0.83
31:DA:966:G:H2'	31:DA:967:C:H6	1.41	0.83
31:DA:2632:A:H1'	34:DE:61:ARG:NH1	1.94	0.83
36:DG:92:VAL:HG22	36:DG:93:THR:H	1.43	0.83
2:AB:93:VAL:HG11	2:AB:97:TRP:HD1	1.42	0.83
24:B2:49:LYS:HD2	24:B2:53:LEU:CD2	2.08	0.83
27:B5:54:GLY:O	27:B5:56:LYS:NZ	2.12	0.83
34:BE:59:VAL:HG22	34:BE:63:LEU:HA	1.58	0.83
39:BN:133:GLN:O	39:BN:135:PRO:HD3	1.79	0.83
31:DA:1170:G:H1	31:DA:1179:C:H42	1.24	0.83
36:DG:16:ARG:HA	36:DG:19:LEU:HD12	1.60	0.83
1:AA:233:C:H2'	1:AA:234:C:H6	1.44	0.83
1:AA:709:G:H2'	1:AA:710:G:H8	1.43	0.83
1:AA:1112:C:N3	3:AC:178:LEU:HD23	1.93	0.83
31:BA:662:G:OP1	41:BP:18:ARG:HD2	1.77	0.83
31:BA:1410:G:H1	31:BA:1592:C:H42	1.26	0.83
31:BA:1568:G:H21	33:BD:58:HIS:HE1	1.25	0.83
33:BD:71:ASP:HB2	33:BD:103:ARG:HH22	1.42	0.83
30:D8:34:TRP:O	30:D8:35:GLN:HB2	1.75	0.83
31:DA:142:A:C8	31:DA:1408:C:H1'	2.13	0.83
31:DA:2875:C:H4'	45:DT:5:ALA:HB2	1.59	0.83
50:DY:37:VAL:HG11	50:DY:72:VAL:HG21	1.60	0.83
3:AC:43:LEU:O	3:AC:47:LEU:HB3	1.79	0.83
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.59	0.83
31:BA:1458:C:H4'	31:BA:1459:G:C4	2.13	0.83
31:BA:1528(A):A:H3'	31:BA:1529:G:H5''	1.60	0.83
31:BA:1639:U:H2'	31:BA:1640:C:H5''	1.58	0.83
45:BT:80:SER:HB3	45:BT:81:PRO:HD3	1.60	0.83
1:CA:192:U:H4'	20:CT:57:ARG:HD2	1.59	0.83
1:CA:626:U:H2'	1:CA:627:G:H8	1.44	0.83
1:CA:920:U:H2'	1:CA:922:G:O6	1.78	0.83
24:D2:14:ARG:O	24:D2:18:PRO:HD3	1.78	0.83
31:DA:1459:G:C8	31:DA:1461:G:H1'	2.14	0.83
33:DD:35:LYS:CD	33:DD:104:TYR:CD1	2.61	0.83
1:AA:559:A:H5''	1:AA:560:U:H3'	1.61	0.83
31:BA:455:C:N3	31:BA:473:G:H5'	1.94	0.83
31:BA:2652:C:C2'	31:BA:2653:U:H5'	2.08	0.83

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:20:ALA:HB2	42:BQ:99:PRO:HG2	1.59	0.83
44:BS:97:ARG:C	44:BS:97:ARG:HE	1.80	0.83
1:CA:102:G:H2'	1:CA:103:C:C6	2.13	0.83
1:CA:619:U:H2'	4:CD:135:LEU:HD21	1.60	0.83
5:CE:10:MET:HB2	5:CE:32:VAL:HG22	1.61	0.83
12:CL:102:ARG:HG3	12:CL:102:ARG:HH11	1.40	0.83
24:D2:56:GLN:HA	24:D2:56:GLN:NE2	1.92	0.83
31:DA:1882:C:H2'	31:DA:1882:C:O2	1.76	0.83
1:AA:702:A:H3'	1:AA:703:G:H5'	1.59	0.83
1:AA:1442:G:N7	1:AA:1442(B):A:H2	1.75	0.83
30:B8:59:LYS:HD3	41:BP:50:ARG:HB3	1.61	0.83
31:BA:1190:G:H4'	41:BP:35:HIS:HB3	1.61	0.83
31:BA:1224:C:O3'	47:BV:88:ARG:HB3	1.78	0.83
31:BA:2870:C:C2'	31:BA:2871:C:H5'	2.07	0.83
32:BB:94:C:H2'	32:BB:95:C:H6	1.44	0.83
45:BT:88:ILE:HG22	45:BT:89:VAL:HG23	1.60	0.83
1:CA:659:U:H2'	1:CA:660:G:H5'	1.59	0.83
31:DA:38:A:H2'	31:DA:39:C:C6	2.13	0.83
31:DA:1022:G:N2	31:DA:1142(A):A:C2	2.46	0.83
31:DA:1973:G:H2'	31:DA:1974:C:C6	2.13	0.83
33:DD:35:LYS:HD3	33:DD:63:ARG:CB	2.08	0.83
35:DF:198:ALA:O	35:DF:201:VAL:HG12	1.79	0.83
43:DR:9:LYS:O	43:DR:10:LEU:HG	1.79	0.83
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.14	0.83
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.42	0.83
25:B3:8:LEU:HB2	25:B3:28:LEU:HD13	1.60	0.83
31:BA:157:U:H5''	31:BA:171:G:H22	1.44	0.83
33:BD:25:THR:CG2	33:BD:81:ALA:HB1	2.02	0.83
38:BI:101:LEU:C	38:BI:109:ILE:HD11	1.99	0.83
8:CH:36:LEU:HA	8:CH:39:LEU:HD23	1.58	0.83
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.60	0.83
28:D6:51:GLU:HG2	28:D6:52:VAL:H	1.44	0.83
31:DA:1406:U:H2'	31:DA:1407:C:C6	2.13	0.83
31:DA:2524:G:H8	31:DA:2524:G:H5'	1.44	0.83
49:DX:70:LEU:HG	49:DX:71:GLY:N	1.92	0.83
51:DZ:44:PHE:CZ	51:DZ:86:VAL:HG11	2.14	0.83
1:AA:619:U:H2'	4:AD:135:LEU:HD21	1.61	0.83
31:BA:1528:A:N1	31:BA:1544:A:N6	2.27	0.83
31:BA:2012:G:H4'	48:BW:96:ILE:HD11	1.61	0.83
39:BN:83:LYS:HE2	39:BN:85:ILE:HD11	1.60	0.83
31:DA:150:C:H2'	31:DA:151:C:H6	1.43	0.83

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:455:C:N3	31:DA:473:G:H5'	1.93	0.83
31:DA:1952:A:C5	40:DO:22:ILE:HD11	2.14	0.83
31:DA:1980:G:O2'	31:DA:1982:C:OP2	1.96	0.83
33:DD:65:ILE:HD11	33:DD:67:PHE:CD1	2.14	0.83
4:AD:18:LYS:HB2	4:AD:33:MET:SD	2.19	0.82
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.61	0.82
31:BA:2267:A:H5''	31:BA:2268:A:C5'	2.09	0.82
33:BD:71:ASP:HB2	33:BD:103:ARG:NH2	1.94	0.82
33:BD:267:SER:C	33:BD:269:PHE:H	1.80	0.82
34:BE:132:HIS:CD2	34:BE:135:HIS:NE2	2.46	0.82
1:CA:233:C:H2'	1:CA:234:C:H6	1.44	0.82
1:CA:1346:A:H5''	9:CI:120:ARG:HH12	1.44	0.82
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.59	0.82
10:CJ:7:LYS:HD3	10:CJ:71:LEU:HD11	1.58	0.82
31:DA:1499:C:O2'	31:DA:1500:G:H5'	1.79	0.82
41:DP:101:VAL:HB	41:DP:107:LYS:H	1.44	0.82
46:DU:92:ARG:HB3	47:DV:11:GLN:HE21	1.36	0.82
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.61	0.82
1:CA:444:C:H2'	1:CA:445:G:C8	2.13	0.82
1:CA:748:C:H4'	1:CA:749:C:O5'	1.77	0.82
8:CH:10:LEU:HD13	8:CH:83:ILE:HD11	1.61	0.82
51:DZ:101:PRO:O	51:DZ:102:LEU:HD23	1.79	0.82
23:B1:76:ARG:HB3	23:B1:78:LYS:HE3	1.60	0.82
31:BA:150:C:H2'	31:BA:151:C:H6	1.43	0.82
37:BH:66:GLY:HA2	37:BH:69:ARG:HB2	1.60	0.82
43:BR:11:ASN:CG	43:BR:12:ARG:H	1.81	0.82
1:CA:559:A:H5''	1:CA:560:U:H3'	1.61	0.82
31:DA:1410:G:H1	31:DA:1592:C:H42	1.25	0.82
32:DB:36:C:H2'	32:DB:37:C:C5	2.14	0.82
32:DB:67:G:C4	32:DB:68:C:H5	1.97	0.82
37:DH:89:ILE:HD13	37:DH:90:LYS:H	1.42	0.82
2:AB:69:LEU:HB3	2:AB:162:ILE:HG22	1.59	0.82
5:AE:48:ALA:HB2	5:AE:57:LYS:HD3	1.62	0.82
12:AL:102:ARG:HH11	12:AL:102:ARG:CG	1.92	0.82
31:BA:171:G:H2'	31:BA:172:C:O4'	1.79	0.82
46:BU:64:ARG:CZ	46:BU:64:ARG:HA	2.09	0.82
24:D2:26:ARG:CG	49:DX:5:TYR:HB3	2.09	0.82
31:DA:142:A:H1'	31:DA:1408:C:O4'	1.80	0.82
31:DA:171:G:H2'	31:DA:172:C:O4'	1.79	0.82
31:DA:1388:G:O2'	31:DA:1389:G:H5'	1.80	0.82
36:DG:47:LYS:HD3	36:DG:81:LYS:HD2	1.60	0.82

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DO:65:THR:HA	40:DO:82:ASN:HB3	1.60	0.82
1:AA:403:C:O2'	1:AA:404:U:H5'	1.79	0.82
31:BA:2317:C:H2'	31:BA:2317:C:O2	1.78	0.82
36:BG:64:THR:HG23	36:BG:65:GLY:N	1.95	0.82
38:BI:3:VAL:HG12	38:BI:38:LEU:HA	1.59	0.82
39:BN:18:ALA:HB3	39:BN:26:LEU:HD22	1.61	0.82
49:BX:53:LYS:H	49:BX:80:ILE:HG22	1.45	0.82
1:CA:921:U:C1'	1:CA:922:G:C5	2.62	0.82
1:CA:973:G:H3'	1:CA:974:A:H5''	1.60	0.82
12:CL:102:ARG:HH11	12:CL:102:ARG:CG	1.92	0.82
31:DA:343:C:H2'	31:DA:344:G:H5'	1.61	0.82
31:DA:860:U:C5	31:DA:917:A:N7	2.47	0.82
31:DA:1332:G:N2	31:DA:1610:A:H8	1.74	0.82
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.14	0.82
31:BA:1778:U:H2'	31:BA:1784:A:N6	1.94	0.82
31:BA:2523:G:C2'	31:BA:2524:G:H5''	2.09	0.82
41:BP:71:VAL:HG12	41:BP:72:PRO:HD3	1.60	0.82
51:BZ:74:VAL:HG22	51:BZ:86:VAL:HG12	1.60	0.82
1:CA:344:A:O2'	1:CA:346:G:N7	2.12	0.82
1:CA:702:A:H3'	1:CA:703:G:H5'	1.60	0.82
4:CD:18:LYS:HB2	4:CD:33:MET:SD	2.18	0.82
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.60	0.82
32:DB:37:C:H2'	32:DB:37:C:O2	1.80	0.82
42:DQ:24:GLY:CA	51:DZ:78:LYS:HA	2.09	0.82
42:DQ:30:GLY:HA2	42:DQ:107:ALA:HB2	1.62	0.82
50:DY:31:LEU:HB3	50:DY:32:PRO:CA	2.08	0.82
1:AA:626:U:H2'	1:AA:627:G:H8	1.43	0.82
33:BD:235:GLY:O	33:BD:237:GLU:HG2	1.78	0.82
46:BU:75:ASN:HB2	46:BU:78:THR:OG1	1.79	0.82
10:CJ:40:LEU:HB2	10:CJ:41:PRO:HD2	1.61	0.82
36:DG:60:LEU:O	36:DG:64:THR:HG22	1.80	0.82
38:DI:77:LEU:HD21	38:DI:101:LEU:HD13	1.62	0.82
1:AA:9:G:H2'	1:AA:10:A:H8	1.43	0.82
1:AA:1142:G:H3'	1:AA:1143:G:C8	2.14	0.82
31:BA:150:C:H2'	31:BA:151:C:C6	2.15	0.82
23:D1:34:THR:HG23	31:DA:388:G:OP1	1.79	0.82
30:D8:32:LEU:C	30:D8:34:TRP:H	1.80	0.82
31:DA:142:A:H5'	31:DA:142(A):C:OP2	1.80	0.82
33:DD:70:TRP:CH2	33:DD:150:LYS:HA	2.15	0.82
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.59	0.82
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.62	0.82

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:14:VAL:CG1	30:B8:22:VAL:HG13	2.09	0.82
33:BD:25:THR:HG22	33:BD:82:ILE:O	1.78	0.82
39:BN:73:THR:O	39:BN:75:TYR:N	2.11	0.82
31:DA:71:A:H2	49:DX:31:HIS:CE1	1.97	0.82
1:AA:748:C:H4'	1:AA:749:C:O5'	1.78	0.82
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.43	0.82
13:AM:91:ARG:HB2	13:AM:98:VAL:HG21	1.61	0.82
20:AT:50:GLU:HB2	20:AT:100:ILE:HG12	1.60	0.82
31:BA:1987:G:H2'	31:BA:1988:C:H6	1.43	0.82
41:BP:106:LEU:HD13	41:BP:112:LEU:HD23	1.61	0.82
31:DA:2463:C:C2'	31:DA:2464:C:H5'	2.09	0.82
31:DA:2580:U:C5'	34:DE:131:ALA:H	1.92	0.82
34:DE:104:VAL:HG11	34:DE:188:VAL:HG23	1.62	0.82
46:DU:83:LEU:HB3	46:DU:88:ILE:HD11	1.62	0.82
49:DX:33:LYS:C	49:DX:35:THR:H	1.81	0.82
1:AA:913:A:H4'	1:AA:914:A:O5'	1.80	0.81
31:BA:1501:C:H2'	31:BA:1502:C:H6	1.45	0.81
1:CA:403:C:O2'	1:CA:404:U:H5'	1.80	0.81
1:CA:601:C:H2'	1:CA:602:A:H8	1.44	0.81
23:D1:10:LYS:HD2	23:D1:14:VAL:HA	1.62	0.81
31:DA:286:C:H42	31:DA:355:G:H1	1.27	0.81
31:DA:1740:G:H3'	31:DA:1741:A:C8	2.14	0.81
31:DA:1887:C:H2'	31:DA:1888:G:C5'	2.10	0.81
31:DA:2317:C:H2'	31:DA:2317:C:O2	1.80	0.81
1:AA:1256:A:N6	1:AA:1278:U:H1'	1.96	0.81
31:BA:2068:U:N3	31:BA:2430:A:H2	1.78	0.81
32:BB:25:A:H2'	32:BB:26:A:H8	1.43	0.81
6:CF:34:GLY:N	6:CF:71:ARG:HH21	1.76	0.81
30:D8:14:VAL:CG1	30:D8:22:VAL:HG13	2.10	0.81
31:DA:1021:A:H3'	31:DA:1021:A:H8	1.45	0.81
49:DX:41:ASN:HA	49:DX:44:GLU:HG2	1.60	0.81
23:B1:86:SER:N	23:B1:87:PRO:HD3	1.94	0.81
28:B6:12:GLU:HA	28:B6:23:THR:HA	1.60	0.81
31:BA:184:C:H2'	31:BA:185:U:C6	2.14	0.81
31:BA:286:C:H42	31:BA:355:G:H1	1.27	0.81
31:BA:997:G:C2'	31:BA:998:C:H5'	2.09	0.81
31:BA:2206:G:H21	31:BA:2207:G:H5'	1.45	0.81
33:BD:108:PRO:HB3	33:BD:143:HIS:CE1	2.13	0.81
39:BN:40:PRO:C	46:BU:64:ARG:HH22	1.84	0.81
1:CA:818:G:O2'	1:CA:819:A:H5''	1.79	0.81
1:CA:1226:C:C4	13:CM:104:ARG:HB2	2.15	0.81

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:43:LEU:O	3:CC:47:LEU:HB3	1.80	0.81
23:D1:85:LEU:HB3	23:D1:87:PRO:HG3	1.62	0.81
31:DA:620:G:N3	31:DA:620:G:H5''	1.95	0.81
31:DA:2523:G:H2'	31:DA:2524:G:C5'	2.10	0.81
33:DD:25:THR:CG2	33:DD:81:ALA:HB1	2.01	0.81
23:B1:26:ARG:HB3	23:B1:34:THR:HA	1.61	0.81
40:BO:13:ASN:HD21	40:BO:97:ARG:N	1.77	0.81
44:BS:63:THR:HA	44:BS:66:ALA:HB3	1.60	0.81
1:CA:407:G:H5''	4:CD:115:ARG:HB3	1.61	0.81
1:CA:1285:A:H1'	1:CA:1286:A:OP2	1.80	0.81
2:CB:163:PHE:HA	2:CB:185:ILE:HG13	1.60	0.81
23:D1:76:ARG:HB3	23:D1:78:LYS:HE3	1.61	0.81
30:D8:52:LYS:N	30:D8:53:PRO:HD2	1.96	0.81
30:D8:61:LEU:HD13	31:DA:593:G:H4'	1.60	0.81
38:DI:102:SER:HA	38:DI:107:VAL:O	1.80	0.81
50:DY:46:LYS:C	50:DY:47:LYS:HZ3	1.83	0.81
1:AA:601:C:H2'	1:AA:602:A:H8	1.43	0.81
1:AA:662:G:H2'	1:AA:663:A:C8	2.14	0.81
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.44	0.81
16:AP:28:ARG:HH11	16:AP:28:ARG:CG	1.93	0.81
23:B1:64:ALA:O	23:B1:65:SER:HB3	1.79	0.81
31:BA:1580:A:H8	31:BA:1580:A:OP2	1.64	0.81
32:BB:36:C:H2'	32:BB:37:C:C5	2.16	0.81
45:BT:88:ILE:HG22	45:BT:89:VAL:N	1.95	0.81
31:DA:1654:A:OP1	43:DR:3:HIS:HB2	1.81	0.81
31:DA:2012:G:H4'	48:DW:96:ILE:HD11	1.63	0.81
31:DA:2870:C:C2'	31:DA:2871:C:H5'	2.10	0.81
41:DP:146:VAL:HG13	41:DP:147:LEU:H	1.43	0.81
44:DS:39:ILE:HG12	44:DS:73:LEU:HD11	1.60	0.81
47:DV:32:THR:HG22	47:DV:33:VAL:H	1.45	0.81
50:DY:39:VAL:HG12	50:DY:40:GLU:N	1.93	0.81
8:AH:36:LEU:HA	8:AH:39:LEU:HD23	1.59	0.81
25:B3:19:GLN:O	25:B3:23:LEU:HD12	1.81	0.81
40:BO:43:VAL:HG12	40:BO:54:GLU:HA	1.62	0.81
47:BV:19:LYS:HE2	47:BV:20:LEU:HD12	1.62	0.81
1:CA:662:G:H2'	1:CA:663:A:C8	2.16	0.81
31:DA:229:A:H5'	31:DA:230:U:C5'	2.10	0.81
33:DD:108:PRO:HB3	33:DD:143:HIS:CE1	2.15	0.81
46:DU:64:ARG:CZ	46:DU:64:ARG:HA	2.10	0.81
49:DX:70:LEU:HG	49:DX:71:GLY:H	1.46	0.81
1:AA:955:U:H1'	1:AA:1227:A:H61	1.45	0.81

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:10:LYS:HD2	23:B1:14:VAL:HA	1.62	0.81
23:B1:27:GLU:OE2	23:B1:32:LYS:HB2	1.81	0.81
31:BA:1509(A):A:H2'	31:BA:1509(B):A:H8	1.43	0.81
31:BA:2392:A:H2	31:BA:2424:C:H42	1.29	0.81
31:BA:2521:C:O2	31:BA:2521:C:H2'	1.80	0.81
31:BA:2660:A:H5''	31:BA:2661:G:N3	1.95	0.81
35:BF:65:TRP:HZ3	35:BF:75:HIS:HD2	1.25	0.81
50:BY:8:LYS:HE2	50:BY:72:VAL:HG23	1.63	0.81
51:BZ:44:PHE:CZ	51:BZ:86:VAL:HG11	2.16	0.81
1:CA:650:G:O2'	1:CA:651:C:H5'	1.81	0.81
1:CA:1442:G:C6	1:CA:1442(B):A:N1	2.49	0.81
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.62	0.81
13:CM:91:ARG:HB2	13:CM:98:VAL:HG21	1.62	0.81
31:DA:150:C:H2'	31:DA:151:C:C6	2.16	0.81
31:DA:1313:U:H2'	31:DA:1610:A:C2	2.16	0.81
31:DA:2854:G:H2'	31:DA:2855:C:H6	1.44	0.81
35:DF:65:TRP:CZ3	35:DF:75:HIS:CD2	2.68	0.81
1:AA:664:G:N2	1:AA:741:G:H1	1.77	0.81
38:BI:82:ARG:HB3	38:BI:89:TYR:HE1	1.44	0.81
42:BQ:24:GLY:CA	51:BZ:78:LYS:HA	2.10	0.81
49:BX:70:LEU:HG	49:BX:71:GLY:H	1.44	0.81
1:CA:1142:G:H3'	1:CA:1143:G:C8	2.15	0.81
20:CT:89:ARG:NH2	20:CT:104:LEU:HD11	1.96	0.81
31:DA:1797:C:C2'	31:DA:1798:U:H5'	2.11	0.81
31:DA:1902:C:H1'	33:DD:244:ARG:HD3	1.60	0.81
31:DA:2334:G:H21	44:DS:18:ILE:CD1	1.94	0.81
47:DV:19:LYS:HE2	47:DV:20:LEU:HD12	1.63	0.81
1:AA:67:C:H2'	1:AA:68:G:H8	1.44	0.81
1:AA:407:G:H5''	4:AD:115:ARG:HB3	1.62	0.81
12:AL:32:PHE:HD1	12:AL:86:ARG:HA	1.45	0.81
36:BG:22:ARG:HB3	36:BG:23:PHE:CE1	2.15	0.81
37:BH:89:ILE:HD11	37:BH:129:THR:HB	1.62	0.81
44:BS:89:ARG:HA	44:BS:89:ARG:HE	1.46	0.81
47:BV:60:GLU:OE1	47:BV:101:GLY:HA2	1.81	0.81
49:BX:72:LYS:HG2	49:BX:74:PRO:HD3	1.62	0.81
1:CA:389:A:H2'	1:CA:390:C:H5'	1.62	0.81
1:CA:1256:A:N6	1:CA:1278:U:H1'	1.96	0.81
40:DO:23:ARG:CG	40:DO:23:ARG:HH11	1.94	0.81
45:DT:50:ILE:HD11	45:DT:102:ILE:CD1	2.09	0.81
47:DV:24:LYS:HE3	47:DV:68:LYS:HE3	1.63	0.81
1:AA:555:C:H2'	1:AA:556:C:C6	2.16	0.81

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:973:G:H3'	1:AA:974:A:H5''	1.62	0.81
31:BA:2787:C:C1'	34:BE:61:ARG:HB2	2.10	0.81
1:CA:555:C:H2'	1:CA:556:C:C6	2.15	0.81
1:CA:1399:C:C2	1:CA:1502:A:N6	2.49	0.81
31:DA:997:G:C2'	31:DA:998:C:H5'	2.10	0.81
31:DA:1820:U:H4'	31:DA:1821:A:OP2	1.81	0.81
31:DA:2346:A:H5''	31:DA:2383:G:H1'	1.63	0.81
41:DP:83:VAL:CG1	41:DP:112:LEU:HD21	2.11	0.81
1:AA:102:G:H2'	1:AA:103:C:C6	2.15	0.80
1:AA:437:U:OP1	4:AD:155:LEU:HD22	1.81	0.80
1:AA:1392:G:C2'	1:AA:1393:U:H5'	2.11	0.80
31:BA:721:C:H2'	31:BA:721:C:O2	1.79	0.80
35:BF:103:LYS:HA	35:BF:106:ARG:HG3	1.63	0.80
51:BZ:69:THR:HG22	51:BZ:90:VAL:HA	1.63	0.80
8:CH:29:SER:HB3	8:CH:32:LYS:HG3	1.61	0.80
31:DA:1658:C:OP1	34:DE:132:HIS:ND1	2.13	0.80
33:DD:17:THR:HG23	33:DD:205:VAL:H	1.44	0.80
37:DH:33:LEU:HD11	37:DH:136:ILE:O	1.81	0.80
15:AO:56:LEU:HD21	31:BA:715:G:C2	2.15	0.80
31:BA:1028:A:H61	31:BA:1125:G:H2'	1.45	0.80
31:BA:1169:G:H1	31:BA:1180:C:H42	0.86	0.80
37:BH:137:ASP:O	37:BH:138:LYS:HB2	1.81	0.80
31:DA:1482:G:H22	31:DA:1507:A:H1'	1.47	0.80
31:DA:1786:A:H1'	31:DA:1938:A:N6	1.95	0.80
31:DA:2236:C:H2'	31:DA:2237:G:H5'	1.61	0.80
33:DD:65:ILE:HD11	33:DD:67:PHE:CE1	2.16	0.80
34:DE:134:ILE:H	34:DE:134:ILE:HD13	1.46	0.80
42:DQ:22:LYS:HE2	42:DQ:22:LYS:HA	1.62	0.80
49:DX:72:LYS:HG3	49:DX:73:ARG:N	1.95	0.80
1:AA:59:A:C5'	1:AA:60:A:H5''	2.10	0.80
18:AR:74:ARG:HG3	18:AR:79:LEU:HB3	1.63	0.80
31:BA:1887:C:H2'	31:BA:1888:G:C5'	2.10	0.80
37:BH:44:VAL:HG12	37:BH:45:VAL:H	1.46	0.80
1:CA:64:G:H4'	1:CA:65:U:H5''	1.63	0.80
23:D1:86:SER:N	23:D1:87:PRO:HD3	1.96	0.80
31:DA:2206:G:H21	31:DA:2207:G:H5'	1.42	0.80
31:DA:2652:C:C2'	31:DA:2653:U:H5'	2.10	0.80
55:DA:3320:TEL:O48	55:DA:3320:TEL:C57	2.30	0.80
39:DN:83:LYS:HE2	39:DN:85:ILE:HD11	1.64	0.80
47:DV:52:VAL:O	47:DV:53:GLU:HB3	1.79	0.80
1:AA:66:G:H4'	1:AA:173:U:C5	2.16	0.80

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:707:C:O2'	1:AA:708:C:H5'	1.80	0.80
1:AA:1399:C:H4'	1:AA:1400:C:H5''	1.63	0.80
5:AE:76:ILE:HG22	5:AE:93:PRO:HB3	1.62	0.80
24:B2:44:LEU:O	24:B2:44:LEU:HD12	1.80	0.80
31:BA:271(P):C:H5'	38:BI:45:LYS:HE3	1.64	0.80
31:BA:1482:G:H22	31:BA:1507:A:H1'	1.45	0.80
31:BA:1654:A:OP1	43:BR:3:HIS:HB2	1.81	0.80
31:BA:1786:A:H1'	31:BA:1938:A:N6	1.97	0.80
31:BA:1796:U:H2'	31:BA:1797:C:C6	2.15	0.80
31:BA:2463:C:C2'	31:BA:2464:C:H5'	2.10	0.80
33:BD:35:LYS:HD3	33:BD:63:ARG:CB	2.11	0.80
41:BP:71:VAL:CG1	41:BP:72:PRO:HD3	2.12	0.80
43:BR:116:LEU:O	43:BR:117:VAL:HB	1.80	0.80
49:BX:12:VAL:HG12	49:BX:27:THR:O	1.81	0.80
1:CA:877:C:H5''	8:CH:88:LYS:HE3	1.61	0.80
31:DA:481:G:OP2	50:DY:47:LYS:HE2	1.81	0.80
31:DA:903:C:C2'	31:DA:904:C:H5''	2.11	0.80
31:DA:911:A:H2'	42:DQ:9:TYR:OH	1.82	0.80
55:DA:3320:TEL:O18	55:DA:3320:TEL:H332	1.82	0.80
41:DP:30:THR:HG22	41:DP:31:ALA:N	1.96	0.80
1:AA:1320:C:H5'	19:AS:70:LYS:HG3	1.62	0.80
1:AA:1434:A:H61	1:AA:1467:G:H1'	1.46	0.80
31:BA:184:C:H2'	31:BA:185:U:H6	1.46	0.80
31:BA:847:U:H2'	31:BA:848:G:H5''	1.62	0.80
31:BA:1331:A:O2'	31:BA:1332:G:H8	1.64	0.80
45:BT:29:ARG:HG3	45:BT:30:VAL:HG22	1.64	0.80
45:BT:106:SER:HA	45:BT:110:ILE:HG13	1.63	0.80
1:CA:921:U:O2'	1:CA:922:G:N9	2.15	0.80
31:DA:157:U:H5''	31:DA:171:G:H22	1.44	0.80
31:DA:2752:C:H2'	31:DA:2752:C:O2	1.78	0.80
35:DF:65:TRP:HZ3	35:DF:75:HIS:HD2	1.29	0.80
38:DI:3:VAL:HG12	38:DI:38:LEU:HA	1.62	0.80
44:DS:89:ARG:HA	44:DS:89:ARG:HE	1.46	0.80
1:AA:344:A:O2'	1:AA:346:G:N7	2.14	0.80
4:AD:62:GLN:HE22	4:AD:65:ARG:HH21	1.28	0.80
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.62	0.80
31:BA:114:U:H5''	31:BA:115:C:OP2	1.82	0.80
31:BA:2415:G:O3'	41:BP:66:GLY:HA3	1.81	0.80
31:BA:2562:U:H1'	40:BO:23:ARG:HH12	1.43	0.80
31:BA:2807:G:H3'	31:BA:2808:U:H5''	1.62	0.80
47:BV:72:VAL:CA	47:BV:88:ARG:HH22	1.95	0.80

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1320:C:H5'	19:CS:70:LYS:HG3	1.62	0.80
30:D8:62:LEU:CD1	31:DA:242:G:H5''	2.09	0.80
45:DT:118:ARG:HA	45:DT:121:ILE:HB	1.64	0.80
50:DY:8:LYS:HE2	50:DY:72:VAL:HG23	1.63	0.80
10:AJ:7:LYS:HD3	10:AJ:71:LEU:HD11	1.61	0.80
24:B2:51:ARG:O	24:B2:52:ASP:HB3	1.79	0.80
30:B8:14:VAL:HG11	30:B8:22:VAL:HG13	1.62	0.80
39:BN:4:TYR:N	39:BN:4:TYR:CD1	2.50	0.80
11:CK:24:SER:HB3	11:CK:27:ASN:O	1.81	0.80
22:D0:41:ARG:H	22:D0:41:ARG:CD	1.94	0.80
28:D6:12:GLU:HA	28:D6:23:THR:HA	1.64	0.80
31:DA:751:A:H5'	48:DW:90:ARG:HA	1.63	0.80
31:DA:2632:A:H1'	34:DE:61:ARG:CZ	2.11	0.80
36:DG:85:GLY:O	36:DG:87:PRO:HD2	1.80	0.80
49:DX:63:LYS:HD2	49:DX:70:LEU:HD13	1.63	0.80
11:AK:24:SER:HB3	11:AK:27:ASN:O	1.80	0.80
16:AP:39:TYR:HA	16:AP:48:TRP:O	1.82	0.80
31:BA:229:A:H5'	31:BA:230:U:C5'	2.11	0.80
31:BA:1021:A:H3'	31:BA:1021:A:H8	1.46	0.80
31:BA:1173:G:H5'	31:BA:1174:A:OP2	1.82	0.80
55:BA:3362:TEL:C38	55:BA:3362:TEL:O29	2.30	0.80
36:BG:47:LYS:HD3	36:BG:81:LYS:HD2	1.62	0.80
49:BX:63:LYS:HD2	49:BX:70:LEU:HD13	1.63	0.80
28:D6:10:LEU:HD22	28:D6:10:LEU:N	1.97	0.80
31:DA:2068:U:N3	31:DA:2430:A:H2	1.78	0.80
31:DA:2829:C:C2'	31:DA:2830:G:H5''	2.11	0.80
36:DG:111:LEU:HA	36:DG:114:ILE:HG13	1.63	0.80
48:DW:9:TYR:H	48:DW:102:HIS:HD2	1.26	0.80
1:AA:736:C:H2'	1:AA:737:A:H8	1.43	0.80
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.17	0.80
28:B6:12:GLU:HB3	28:B6:23:THR:HG22	1.64	0.80
31:BA:1820:U:H4'	31:BA:1821:A:OP2	1.81	0.80
31:BA:1980:G:O2'	31:BA:1982:C:OP2	2.00	0.80
31:BA:2722:G:O2'	43:BR:5:LYS:HB2	1.80	0.80
32:BB:21:G:C5	32:BB:63:G:N2	2.50	0.80
36:BG:92:VAL:HG22	36:BG:93:THR:H	1.45	0.80
38:BI:10:GLU:O	38:BI:12:LEU:HD23	1.82	0.80
40:BO:23:ARG:HH11	40:BO:23:ARG:HG2	1.45	0.80
41:BP:88:LEU:HD11	41:BP:95:VAL:HG21	1.63	0.80
47:BV:47:VAL:HG13	47:BV:48:GLY:H	1.47	0.80
1:CA:1088:G:H2'	1:CA:1089:G:H8	1.47	0.80

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:49:LYS:HD2	24:D2:53:LEU:CD2	2.12	0.80
28:D6:12:GLU:HB3	28:D6:23:THR:HG22	1.63	0.80
31:DA:743:G:H2'	31:DA:744:G:H5'	1.64	0.80
31:DA:2415:G:C4'	41:DP:67:MET:H	1.94	0.80
32:DB:36:C:H2'	32:DB:37:C:C6	2.17	0.80
34:DE:59:VAL:HG22	34:DE:63:LEU:HA	1.62	0.80
1:AA:1342:C:H1'	9:AI:124:GLN:HE22	1.46	0.80
6:AF:34:GLY:N	6:AF:71:ARG:HH21	1.79	0.80
10:AJ:40:LEU:HB2	10:AJ:41:PRO:HD2	1.64	0.80
25:B3:8:LEU:HD13	25:B3:31:LEU:HA	1.64	0.80
31:BA:1429:G:H2'	31:BA:1430:C:H6	1.47	0.80
33:BD:91:ARG:HH11	33:BD:91:ARG:HG2	1.46	0.80
41:BP:119:GLU:O	25:D3:2:PRO:HD3	1.81	0.80
47:BV:2:PHE:HE1	47:BV:13:ARG:CZ	1.95	0.80
50:BY:47:LYS:HD2	50:BY:47:LYS:H	1.46	0.80
1:CA:955:U:H1'	1:CA:1227:A:H61	1.46	0.80
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.64	0.80
1:CA:1434:A:H61	1:CA:1467:G:H1'	1.47	0.80
33:DD:35:LYS:HD3	33:DD:63:ARG:CA	2.12	0.80
41:DP:112:LEU:HD22	41:DP:113:LYS:N	1.97	0.80
42:DQ:48:GLU:O	42:DQ:52:VAL:HG12	1.81	0.80
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.16	0.79
2:AB:162:ILE:HD11	2:AB:184:VAL:HG22	1.62	0.79
2:AB:178:ARG:HH22	8:AH:68:ARG:HH22	1.27	0.79
23:B1:37:ILE:HG21	31:BA:2080:G:OP1	1.83	0.79
23:B1:85:LEU:HB3	23:B1:87:PRO:HG3	1.64	0.79
24:B2:57:ILE:HG12	24:B2:59:ARG:NH1	1.97	0.79
31:BA:1024:G:H3'	31:BA:1025:G:H5''	1.64	0.79
35:BF:168:ARG:HG3	35:BF:175:THR:HG21	1.64	0.79
37:BH:89:ILE:HD13	37:BH:90:LYS:N	1.96	0.79
39:BN:65:LYS:HA	39:BN:65:LYS:CE	2.13	0.79
49:BX:25:LYS:HE3	49:BX:26:TYR:CE1	2.16	0.79
1:CA:66:G:H4'	1:CA:173:U:C5	2.18	0.79
1:CA:539:A:H2'	1:CA:540:G:C8	2.18	0.79
1:CA:1399:C:H4'	1:CA:1400:C:H5''	1.64	0.79
19:CS:10:PHE:HZ	19:CS:70:LYS:HE2	1.47	0.79
31:DA:322:A:H5'	31:DA:340:A:H1'	1.65	0.79
31:DA:1022:G:N2	31:DA:1142(A):A:H2	1.80	0.79
33:DD:54:ARG:O	33:DD:218:ARG:HG3	1.82	0.79
34:DE:101:ARG:HD3	34:DE:169:ASN:O	1.82	0.79
45:DT:28:VAL:HG22	45:DT:46:GLU:HA	1.64	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:66:ARG:HB3	47:DV:95:LEU:O	1.81	0.79
1:AA:444:C:H2'	1:AA:445:G:C8	2.13	0.79
1:AA:1484:C:HO2'	31:BA:1960:A:HO2'	1.24	0.79
29:B7:11:LYS:HE2	31:BA:686:G:H5''	1.65	0.79
31:BA:903:C:C2'	31:BA:904:C:H5''	2.12	0.79
55:BA:3362:TEL:O48	55:BA:3362:TEL:C57	2.30	0.79
41:BP:16:ARG:HG2	41:BP:18:ARG:H	1.46	0.79
46:BU:31:SER:O	46:BU:33:ARG:N	2.15	0.79
50:BY:17:SER:CB	50:BY:71:LYS:HD2	2.10	0.79
1:CA:501:C:H2'	1:CA:502:G:C8	2.17	0.79
1:CA:677:U:H3	1:CA:713:G:H22	1.30	0.79
2:CB:69:LEU:HB3	2:CB:162:ILE:HG22	1.62	0.79
2:CB:162:ILE:HD11	2:CB:184:VAL:HG22	1.63	0.79
18:CR:74:ARG:HG3	18:CR:79:LEU:HB3	1.63	0.79
22:D0:31:VAL:HB	22:D0:35:ASN:ND2	1.96	0.79
31:DA:1173:G:H5'	31:DA:1174:A:OP2	1.82	0.79
31:DA:2808:U:O2'	31:DA:2809:A:H5'	1.81	0.79
55:DA:3320:TEL:O18	55:DA:3320:TEL:C38	2.30	0.79
35:DF:160:ASN:HD22	35:DF:160:ASN:C	1.85	0.79
48:DW:75:TYR:HE1	48:DW:104:THR:CB	1.95	0.79
51:DZ:126:VAL:HA	51:DZ:164:ALA:HB3	1.64	0.79
22:B0:68:GLU:HB2	22:B0:80:HIS:HB2	1.63	0.79
23:B1:85:LEU:HB3	23:B1:87:PRO:HD3	1.63	0.79
31:BA:1973:G:H2'	31:BA:1974:C:C6	2.16	0.79
31:BA:2808:U:O2'	31:BA:2809:A:H5'	1.83	0.79
45:BT:33:LYS:HB3	45:BT:41:ARG:HB3	1.64	0.79
1:CA:9:G:H2'	1:CA:10:A:H8	1.45	0.79
2:CB:178:ARG:HH22	8:CH:68:ARG:HH22	1.27	0.79
5:CE:48:ALA:HB2	5:CE:57:LYS:HD3	1.62	0.79
12:CL:8:ASN:HD22	17:CQ:34:LYS:HE2	1.48	0.79
12:CL:32:PHE:HD1	12:CL:86:ARG:HA	1.47	0.79
12:CL:43:VAL:HG22	12:CL:55:VAL:HG21	1.64	0.79
23:D1:85:LEU:HB3	23:D1:87:PRO:HD3	1.64	0.79
31:DA:909:A:H2'	31:DA:912:C:H5	1.47	0.79
31:DA:2415:G:O3'	41:DP:66:GLY:HA3	1.83	0.79
31:DA:2467:C:H4'	42:DQ:123:HIS:CD2	2.17	0.79
31:DA:2807:G:H3'	31:DA:2808:U:H5''	1.62	0.79
41:DP:62:LEU:HD13	41:DP:62:LEU:N	1.96	0.79
46:DU:92:ARG:CD	47:DV:11:GLN:HE21	1.92	0.79
50:DY:77:PRO:O	50:DY:99:CYS:SG	2.40	0.79
1:AA:1285:A:H1'	1:AA:1286:A:OP2	1.82	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:19:LEU:HD22	9:AI:59:PHE:HB3	1.65	0.79
16:AP:22:THR:HG22	16:AP:32:TYR:HA	1.65	0.79
24:B2:16:LEU:H	24:B2:18:PRO:HD2	1.46	0.79
31:BA:2475:C:H5''	31:BA:2476:A:OP2	1.83	0.79
34:BE:52:LEU:HB2	34:BE:76:ARG:HB2	1.62	0.79
36:BG:111:LEU:HA	36:BG:114:ILE:HG13	1.65	0.79
37:BH:141:VAL:HG12	37:BH:142:GLY:N	1.96	0.79
1:CA:913:A:H4'	1:CA:914:A:O5'	1.83	0.79
1:CA:922:G:H1'	5:CE:19:MET:HB2	1.63	0.79
31:DA:448:U:H3'	31:DA:449:A:H5'	1.65	0.79
31:DA:997:G:OP1	46:DU:93:LYS:HD3	1.83	0.79
31:DA:2886:G:H2'	31:DA:2887:U:H6	1.47	0.79
41:DP:62:LEU:N	41:DP:62:LEU:HD22	1.98	0.79
1:AA:1483:A:H1'	31:BA:1948:G:C1'	2.11	0.79
31:BA:65:C:H2'	31:BA:66:C:H6	1.47	0.79
31:BA:823:G:O2'	31:BA:824:A:H5'	1.82	0.79
31:BA:2396:G:O2'	31:BA:2397:G:H5'	1.81	0.79
43:BR:4:LEU:O	43:BR:4:LEU:CD1	2.30	0.79
50:BY:49:VAL:HG12	50:BY:53:PRO:HB3	1.63	0.79
1:CA:15:G:C6	1:CA:922:G:N2	2.51	0.79
2:CB:19:HIS:NE2	2:CB:206:ASP:HB2	1.98	0.79
20:CT:50:GLU:HB2	20:CT:100:ILE:HG12	1.62	0.79
29:D7:39:ARG:NH2	31:DA:468:G:N7	2.30	0.79
31:DA:1434:A:H61	31:DA:1558:A:H62	1.28	0.79
55:DA:3320:TEL:C38	55:DA:3320:TEL:O29	2.30	0.79
45:DT:80:SER:HB3	45:DT:81:PRO:HD3	1.64	0.79
34:BE:75:VAL:C	34:BE:77:ILE:H	1.85	0.79
35:BF:160:ASN:C	35:BF:160:ASN:HD22	1.86	0.79
36:BG:29:TRP:C	36:BG:31:VAL:H	1.86	0.79
1:CA:96:U:HO2'	1:CA:97:G:H8	1.31	0.79
4:CD:128:VAL:CG1	4:CD:129:ASN:HD22	1.92	0.79
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.12	0.79
11:CK:32:ILE:HD11	11:CK:68:ALA:HB1	1.63	0.79
31:DA:107:C:H2'	31:DA:108:U:C6	2.18	0.79
31:DA:271(P):C:H5'	38:DI:45:LYS:HE3	1.62	0.79
33:DD:30:GLU:HG3	33:DD:63:ARG:CZ	2.13	0.79
38:DI:10:GLU:O	38:DI:12:LEU:HD23	1.83	0.79
41:DP:88:LEU:HD11	41:DP:95:VAL:HG21	1.62	0.79
41:DP:101:VAL:HG12	41:DP:106:LEU:HD23	1.63	0.79
31:BA:996:A:O3'	46:BU:92:ARG:HG3	1.82	0.79
31:BA:1740:G:H3'	31:BA:1741:A:C8	2.17	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2199:A:OP2	31:BA:2200:C:H5	1.65	0.79
33:BD:35:LYS:HD3	33:BD:63:ARG:CA	2.13	0.79
38:BI:72:LEU:HD13	38:BI:75:LEU:HB3	1.64	0.79
38:BI:123:LEU:HD22	38:BI:142:VAL:HB	1.65	0.79
47:BV:52:VAL:O	47:BV:53:GLU:HB3	1.82	0.79
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.62	0.79
12:CL:24:VAL:O	12:CL:24:VAL:HG12	1.82	0.79
23:D1:19:GLN:HE21	31:DA:379:G:N2	1.79	0.79
31:DA:184:C:H2'	31:DA:185:U:C6	2.17	0.79
32:DB:21:G:C5	32:DB:63:G:N2	2.50	0.79
37:DH:89:ILE:HD11	37:DH:129:THR:HB	1.64	0.79
1:AA:1238:A:C2	1:AA:1303:C:H4'	2.17	0.79
18:AR:59:SER:HB3	18:AR:62:GLU:CD	2.03	0.79
31:BA:2346:A:H5''	31:BA:2383:G:H1'	1.65	0.79
50:BY:31:LEU:HB3	50:BY:32:PRO:CA	2.12	0.79
31:DA:614(C):A:H4'	31:DA:615:G:OP1	1.82	0.79
31:DA:847:U:H2'	31:DA:848:G:H5''	1.65	0.79
31:DA:1899:G:H21	31:DA:1902:C:H5	1.28	0.79
35:DF:67:GLN:O	35:DF:67:GLN:CG	2.31	0.79
47:DV:61:VAL:O	47:DV:62:LEU:HD23	1.82	0.79
50:DY:31:LEU:HD12	50:DY:34:LYS:H	1.48	0.79
7:AG:152:ALA:O	7:AG:155:ARG:HG3	1.82	0.79
20:AT:89:ARG:NH2	20:AT:104:LEU:HD11	1.95	0.79
28:B6:25:LYS:O	31:BA:2286:A:H2	1.66	0.79
31:BA:448:U:H3'	31:BA:449:A:H5'	1.65	0.79
31:BA:2199:A:H3'	31:BA:2200:C:C6	2.17	0.79
31:BA:2334:G:N2	44:BS:18:ILE:HD11	1.96	0.79
38:BI:124:GLY:H	38:BI:142:VAL:HG23	1.47	0.79
44:BS:71:ARG:O	44:BS:74:ALA:HB3	1.83	0.79
48:BW:9:TYR:H	48:BW:102:HIS:CD2	2.01	0.79
31:DA:676:A:H8	31:DA:2069:G:N2	1.76	0.79
31:DA:1882:C:H5'	31:DA:1883:G:OP2	1.82	0.79
31:DA:2236:C:C2'	31:DA:2237:G:H5'	2.13	0.79
39:DN:55:VAL:HG12	39:DN:126:PRO:HA	1.63	0.79
43:DR:33:ARG:HG2	43:DR:115:GLU:HG2	1.63	0.79
1:AA:579:G:H5'	1:AA:728:A:H1'	1.64	0.79
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.64	0.79
31:BA:271(L):U:H4'	31:BA:271(M):G:N7	1.98	0.79
31:BA:2656:U:H3	31:BA:2665:A:H2	1.28	0.79
38:BI:50:ARG:O	38:BI:54:GLN:HB3	1.83	0.79
1:CA:56:U:H2'	1:CA:57:G:H8	1.43	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:437:U:OP1	4:CD:155:LEU:HD22	1.83	0.79
31:DA:212:G:O2'	31:DA:213:A:H5'	1.83	0.79
31:DA:1887:C:H2'	31:DA:1888:G:H5'	1.65	0.79
45:DT:33:LYS:HZ2	45:DT:33:LYS:H	1.28	0.79
48:DW:59:VAL:CG1	48:DW:60:ASN:N	2.46	0.79
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.17	0.78
19:AS:10:PHE:HZ	19:AS:70:LYS:HE2	1.48	0.78
31:BA:191:A:O2'	31:BA:192:C:H5'	1.82	0.78
31:BA:848:G:H2'	31:BA:849:A:C8	2.18	0.78
31:BA:951:C:C2'	31:BA:952:G:H5'	2.13	0.78
31:BA:1685:C:O2'	31:BA:1686:C:H5'	1.82	0.78
31:BA:1833:U:H2'	31:BA:1834:U:H6	1.47	0.78
31:BA:2236:C:H2'	31:BA:2237:G:H5'	1.63	0.78
55:BA:3362:TEL:O18	55:BA:3362:TEL:C38	2.30	0.78
32:BB:87:G:C3'	32:BB:88:C:H5''	2.13	0.78
36:BG:60:LEU:O	36:BG:64:THR:HG22	1.83	0.78
39:BN:131:GLN:NE2	39:BN:134:ARG:HA	1.98	0.78
45:BT:23:ARG:O	45:BT:25:GLY:N	2.16	0.78
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.48	0.78
1:CA:1281:U:H5'	1:CA:1282:C:C5	2.18	0.78
31:DA:951:C:C2'	31:DA:952:G:H5'	2.13	0.78
31:DA:1712:C:H2'	31:DA:1713:U:H6	1.46	0.78
31:DA:2611:U:H5'	31:DA:2611:U:H6	1.48	0.78
34:DE:117:MET:HB2	34:DE:122:PHE:O	1.83	0.78
31:BA:2265:U:H4'	42:BQ:13:GLN:HE22	1.47	0.78
32:BB:67:G:C5	32:BB:68:C:C5	2.68	0.78
33:BD:85:ASP:HB2	33:BD:92:ILE:HG13	1.66	0.78
35:BF:67:GLN:O	35:BF:67:GLN:CG	2.29	0.78
42:BQ:30:GLY:HA2	42:BQ:107:ALA:HB2	1.64	0.78
1:CA:1346:A:N1	1:CA:1374:A:H5''	1.98	0.78
31:DA:49:A:C4'	31:DA:50:U:H5'	2.13	0.78
31:DA:2660:A:H5''	31:DA:2661:G:N3	1.96	0.78
33:DD:25:THR:HB	33:DD:82:ILE:H	1.47	0.78
41:DP:112:LEU:HD22	41:DP:113:LYS:H	1.47	0.78
1:AA:142:G:C2	1:AA:143:A:C8	2.71	0.78
28:B6:51:GLU:HG2	28:B6:52:VAL:H	1.48	0.78
32:BB:37:C:O2	32:BB:37:C:H2'	1.81	0.78
36:BG:7:LEU:HB3	36:BG:100:TRP:CE3	2.18	0.78
37:BH:155:SER:O	37:BH:157:TYR:N	2.16	0.78
46:BU:88:ILE:O	46:BU:90:VAL:N	2.15	0.78
55:DA:3320:TEL:H11	55:DA:3320:TEL:H143	1.47	0.78

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:28:C:H2'	32:DB:29:A:O4'	1.83	0.78
33:DD:2:ALA:O	33:DD:3:VAL:HB	1.81	0.78
38:DI:123:LEU:HD22	38:DI:142:VAL:HB	1.66	0.78
28:B6:40:CYS:SG	28:B6:45:LYS:NZ	2.55	0.78
30:B8:32:LEU:HB3	30:B8:35:GLN:H	1.48	0.78
31:BA:669:G:C4'	31:BA:670:A:OP2	2.32	0.78
31:BA:2632:A:H1'	34:BE:61:ARG:NH1	1.97	0.78
55:BA:3362:TEL:O18	55:BA:3362:TEL:H332	1.82	0.78
33:BD:25:THR:HB	33:BD:82:ILE:H	1.47	0.78
35:BF:89:VAL:HG12	35:BF:90:PHE:N	1.98	0.78
36:BG:15:VAL:HG12	36:BG:19:LEU:HD11	1.64	0.78
1:CA:59:A:C5'	1:CA:60:A:H5''	2.14	0.78
28:D6:10:LEU:HD12	30:D8:35:GLN:NE2	1.98	0.78
28:D6:13:CYS:HB3	28:D6:49:HIS:HB3	1.65	0.78
31:DA:271(L):U:H4'	31:DA:271(M):G:N7	1.99	0.78
33:DD:35:LYS:HA	33:DD:64:ILE:HG22	1.66	0.78
33:DD:144:ALA:HB3	33:DD:192:THR:HG23	1.65	0.78
41:DP:16:ARG:HG2	41:DP:18:ARG:H	1.49	0.78
41:DP:41:ARG:NH2	41:DP:41:ARG:HA	1.98	0.78
45:DT:29:ARG:HG3	45:DT:30:VAL:HG22	1.65	0.78
45:DT:50:ILE:CD1	45:DT:102:ILE:HD11	2.09	0.78
45:DT:109:GLU:HA	45:DT:112:ARG:HG3	1.66	0.78
47:DV:2:PHE:HE1	47:DV:13:ARG:CZ	1.97	0.78
1:AA:1004:A:H2'	1:AA:1038:C:O2	1.84	0.78
1:AA:1442:G:C6	1:AA:1442(B):A:N1	2.51	0.78
27:B5:46:CYS:SG	27:B5:47:PRO:CD	2.72	0.78
31:BA:7:G:H2'	31:BA:8:A:O4'	1.83	0.78
31:BA:196:A:O4'	41:BP:46:LYS:HE2	1.84	0.78
31:BA:536:A:H2'	31:BA:537:C:C6	2.19	0.78
31:BA:1047:G:H21	31:BA:1111:A:N6	1.81	0.78
32:BB:57:A:C2	32:BB:58:A:C8	2.71	0.78
38:BI:102:SER:HA	38:BI:107:VAL:O	1.83	0.78
41:BP:7:ARG:HB3	41:BP:8:PRO:HD3	1.64	0.78
42:BQ:17:LEU:HD23	42:BQ:17:LEU:N	1.98	0.78
44:BS:37:ALA:HB3	44:BS:51:ALA:HB3	1.66	0.78
1:CA:411:A:H2'	1:CA:412:A:H4'	1.65	0.78
1:CA:579:G:H5'	1:CA:728:A:H1'	1.64	0.78
25:D3:11:SER:OG	25:D3:13:ILE:HG12	1.84	0.78
31:DA:833:U:H2'	31:DA:834:C:C6	2.19	0.78
31:DA:2818:G:O2'	31:DA:2819:G:H5'	1.84	0.78
34:DE:33:VAL:HG12	34:DE:90:THR:H	1.47	0.78

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1494:G:N2	31:BA:1912:A:C2	2.51	0.78
28:B6:24:GLU:HA	28:B6:24:GLU:OE1	1.84	0.78
31:BA:527:C:OP2	31:BA:2779:U:H5	1.67	0.78
42:BQ:24:GLY:HA3	51:BZ:78:LYS:HA	1.64	0.78
45:BT:32:TYR:HB3	45:BT:81:PRO:HB2	1.65	0.78
1:CA:1004:A:H2'	1:CA:1038:C:O2	1.83	0.78
11:CK:27:ASN:HA	11:CK:55:LYS:O	1.83	0.78
31:DA:2267:A:H5''	31:DA:2268:A:C5'	2.13	0.78
33:DD:85:ASP:HB2	33:DD:92:ILE:HG13	1.65	0.78
36:DG:22:ARG:HB3	36:DG:23:PHE:CE1	2.19	0.78
36:DG:64:THR:HG23	36:DG:65:GLY:N	1.97	0.78
38:DI:101:LEU:C	38:DI:109:ILE:HD11	2.03	0.78
1:AA:590:C:H2'	1:AA:591:U:C6	2.18	0.78
27:B5:33:CYS:SG	27:B5:49:CYS:CB	2.72	0.78
31:BA:49:A:C4'	31:BA:50:U:H5'	2.14	0.78
31:BA:997:G:H2'	31:BA:998:C:H5'	1.65	0.78
31:BA:2886:G:H2'	31:BA:2887:U:H6	1.48	0.78
32:BB:36:C:H2'	32:BB:37:C:C6	2.19	0.78
41:BP:62:LEU:H	41:BP:62:LEU:HD13	1.48	0.78
41:DP:21:ARG:CG	41:DP:21:ARG:HH11	1.97	0.78
1:AA:64:G:H4'	1:AA:65:U:H5''	1.64	0.78
31:BA:1047:G:H2'	31:BA:1110:G:N2	1.99	0.78
34:BE:134:ILE:HD13	34:BE:134:ILE:H	1.49	0.78
38:BI:88:ILE:HG13	38:BI:121:LYS:CA	2.14	0.78
50:BY:8:LYS:CE	50:BY:72:VAL:HG23	2.14	0.78
1:CA:80:G:H1	1:CA:89:C:H41	1.29	0.78
23:D1:10:LYS:HB2	23:D1:14:VAL:H	1.47	0.78
28:D6:9:LEU:HD22	28:D6:10:LEU:H	1.49	0.78
28:D6:15:GLU:HG2	28:D6:15:GLU:O	1.83	0.78
32:DB:87:G:C3'	32:DB:88:C:H5''	2.13	0.78
33:DD:172:TYR:CD1	33:DD:186:HIS:HA	2.19	0.78
36:DG:22:ARG:O	36:DG:22:ARG:HD3	1.84	0.78
42:DQ:24:GLY:HA3	51:DZ:78:LYS:HA	1.63	0.78
45:DT:106:SER:HA	45:DT:110:ILE:HG13	1.66	0.78
31:BA:142:A:H1'	31:BA:1408:C:O4'	1.84	0.78
31:BA:212:G:O2'	31:BA:213:A:H5'	1.84	0.78
31:BA:286:C:H2'	31:BA:287:C:H5'	1.66	0.78
49:BX:56:THR:C	49:BX:57:LEU:HD12	2.04	0.78
1:CA:1238:A:C2	1:CA:1303:C:H4'	2.19	0.78
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.46	0.78
31:DA:542:C:N4	31:DA:543:C:N4	2.32	0.78

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1826:G:H4'	33:DD:242:ARG:NH2	1.99	0.78
31:DA:2557:G:O2'	31:DA:2558:C:H5'	1.84	0.78
31:DA:2712:U:H1'	31:DA:2712(A):A:C8	2.18	0.78
31:DA:2751:G:H3'	31:DA:2752:C:H6	1.48	0.78
32:DB:25:A:H2'	32:DB:26:A:H8	1.49	0.78
41:DP:124:LYS:HA	41:DP:143:GLY:HA3	1.66	0.78
44:DS:74:ALA:HB1	44:DS:103:GLU:CG	2.13	0.78
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.19	0.78
8:AH:102:ARG:HE	8:AH:102:ARG:N	1.82	0.78
12:AL:27:LEU:O	12:AL:29:GLY:N	2.17	0.78
31:BA:195:A:C8	31:BA:197:A:OP1	2.37	0.78
31:BA:2292:C:O2'	31:BA:2293:C:H5'	1.83	0.78
37:BH:91:GLY:O	37:BH:92:ILE:HD13	1.83	0.78
1:CA:358:U:H2'	1:CA:359:U:C6	2.18	0.78
1:CA:601:C:H2'	1:CA:602:A:C8	2.18	0.78
31:DA:1865:G:H5'	31:DA:1866:C:OP2	1.84	0.78
1:AA:501:C:H2'	1:AA:502:G:C8	2.19	0.77
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.65	0.77
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.47	0.77
22:B0:72:ARG:HB2	22:B0:75:LEU:HB2	1.67	0.77
24:B2:49:LYS:CD	24:B2:53:LEU:HD22	2.14	0.77
28:B6:15:GLU:O	28:B6:15:GLU:HG2	1.83	0.77
31:BA:942:G:O2'	31:BA:943:U:H5'	1.84	0.77
31:BA:1406:U:H2'	31:BA:1407:C:C6	2.20	0.77
31:BA:2208:A:O2'	31:BA:2218:U:OP2	2.02	0.77
34:BE:33:VAL:HG12	34:BE:90:THR:H	1.48	0.77
46:BU:93:LYS:H	46:BU:93:LYS:CD	1.97	0.77
50:BY:37:VAL:HG11	50:BY:72:VAL:HG21	1.65	0.77
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.20	0.77
14:CN:4:LYS:O	14:CN:7:ILE:HG12	1.83	0.77
15:CO:17:ARG:HH11	15:CO:17:ARG:HG3	1.49	0.77
18:CR:59:SER:HB3	18:CR:62:GLU:CD	2.04	0.77
31:DA:389:G:H22	41:DP:71:VAL:HG12	1.48	0.77
31:DA:1405:U:H2'	31:DA:1406:U:C6	2.20	0.77
31:DA:1406:U:H2'	31:DA:1407:C:H6	1.45	0.77
31:DA:1512:U:O2	31:DA:1512:U:H2'	1.83	0.77
31:DA:1657:C:H5''	34:DE:133:LYS:O	1.84	0.77
31:DA:1662:C:H1'	31:DA:2687:U:H5''	1.66	0.77
31:DA:1899:G:N2	31:DA:1902:C:C5	2.52	0.77
31:DA:2660:A:H3'	31:DA:2660:A:N3	1.98	0.77
41:DP:66:GLY:O	41:DP:67:MET:C	2.22	0.77

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DR:67:LEU:HD13	43:DR:76:VAL:HG21	1.66	0.77
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.47	0.77
1:AA:1483:A:H2	31:BA:1959:G:N3	1.80	0.77
23:B1:71:TYR:CE1	38:BI:27:ARG:HD2	2.20	0.77
31:BA:38:A:H2'	31:BA:39:C:C6	2.19	0.77
31:BA:579:G:H2'	31:BA:580:C:C6	2.20	0.77
31:BA:993:G:N3	47:BV:91:TYR:HE1	1.81	0.77
31:BA:2236:C:C2'	31:BA:2237:G:H5'	2.14	0.77
41:BP:62:LEU:N	41:BP:62:LEU:HD13	1.99	0.77
44:BS:41:ASP:OD2	44:BS:44:LYS:HB2	1.84	0.77
2:CB:22:LYS:HZ3	2:CB:22:LYS:HA	1.49	0.77
31:DA:141:A:C8	31:DA:1408:C:O2'	2.35	0.77
31:DA:1021:A:H3'	31:DA:1021:A:C8	2.19	0.77
36:DG:7:LEU:HB3	36:DG:100:TRP:CE3	2.19	0.77
40:DO:4:PRO:O	40:DO:5:GLN:HB2	1.83	0.77
41:DP:79:ARG:NH2	41:DP:109:GLY:HA2	1.97	0.77
1:AA:358:U:C4	1:AA:359:U:C4	2.73	0.77
1:AA:411:A:H2'	1:AA:412:A:H4'	1.65	0.77
2:AB:126:GLU:O	2:AB:130:ARG:HG3	1.84	0.77
31:BA:107:C:H2'	31:BA:108:U:C6	2.19	0.77
31:BA:1720:U:H2'	31:BA:1721:G:O4'	1.85	0.77
31:BA:2186:G:H3'	31:BA:2187:G:H5''	1.66	0.77
31:BA:2632:A:H1'	34:BE:61:ARG:CZ	2.14	0.77
40:BO:23:ARG:HH11	40:BO:23:ARG:CG	1.98	0.77
1:CA:688:G:H2'	1:CA:689:C:C6	2.20	0.77
1:CA:1158:C:H42	1:CA:1181:G:H1	1.28	0.77
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.19	0.77
16:CP:39:TYR:HA	16:CP:48:TRP:O	1.84	0.77
31:DA:247:G:H4'	31:DA:386:G:C5	2.20	0.77
31:DA:1300:U:H1'	31:DA:1626:G:C2	2.19	0.77
35:DF:168:ARG:HG3	35:DF:175:THR:HG21	1.66	0.77
36:DG:10:LYS:O	36:DG:15:VAL:HG23	1.84	0.77
36:DG:15:VAL:HG12	36:DG:19:LEU:HD11	1.65	0.77
1:AA:601:C:H2'	1:AA:602:A:C8	2.19	0.77
3:AC:73:PRO:O	3:AC:76:VAL:HG22	1.84	0.77
27:B5:47:PRO:O	27:B5:48:GLU:HG3	1.84	0.77
28:B6:13:CYS:HB3	28:B6:49:HIS:HB3	1.65	0.77
31:BA:776:G:H4'	31:BA:777:A:O5'	1.82	0.77
38:BI:77:LEU:HD21	38:BI:101:LEU:HD13	1.65	0.77
38:BI:133:HIS:HB2	38:BI:134:PRO:HD3	1.65	0.77
51:BZ:130:PRO:HA	51:BZ:133:ILE:HD11	1.66	0.77

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:31:LYS:HA	13:CM:34:LEU:HD12	1.63	0.77
24:D2:55:ARG:HH22	49:DX:3:THR:CG2	1.97	0.77
31:DA:951:C:O2'	31:DA:952:G:H5'	1.85	0.77
31:DA:1030:G:OP2	42:DQ:128:LYS:HE2	1.84	0.77
32:DB:80:U:H2'	32:DB:81:G:H21	1.48	0.77
47:DV:75:PHE:HE1	47:DV:89:GLN:HB3	1.46	0.77
10:AJ:82:ILE:O	10:AJ:86:MET:HB3	1.84	0.77
31:BA:322:A:H5'	31:BA:340:A:H1'	1.67	0.77
31:BA:951:C:O2'	31:BA:952:G:H5'	1.83	0.77
31:BA:1021:A:H3'	31:BA:1021:A:C8	2.19	0.77
31:BA:2712:U:O2'	31:BA:2712(A):A:OP2	2.02	0.77
36:BG:10:LYS:O	36:BG:15:VAL:HG23	1.84	0.77
47:BV:4:ILE:O	47:BV:39:LEU:HB3	1.83	0.77
49:BX:24:GLY:HA3	49:BX:80:ILE:HG13	1.67	0.77
51:BZ:101:PRO:O	51:BZ:102:LEU:HD23	1.85	0.77
5:CE:76:ILE:HG22	5:CE:93:PRO:HB3	1.64	0.77
31:DA:669:G:C4'	31:DA:670:A:OP2	2.31	0.77
31:DA:806:C:C5	41:DP:39:LYS:HE2	2.17	0.77
31:DA:2787:C:C1'	34:DE:61:ARG:HB2	2.13	0.77
41:DP:71:VAL:CG1	41:DP:72:PRO:HD3	2.15	0.77
1:AA:688:G:H2'	1:AA:689:C:C6	2.19	0.77
1:AA:1422:G:O2'	1:AA:1423:G:H5'	1.84	0.77
13:AM:31:LYS:HA	13:AM:34:LEU:HD12	1.66	0.77
22:B0:41:ARG:H	22:B0:41:ARG:CD	1.97	0.77
27:B5:48:GLU:O	27:B5:50:GLY:N	2.17	0.77
31:BA:860:U:C5	31:BA:917:A:N7	2.50	0.77
31:BA:954:G:H5''	42:BQ:13:GLN:CG	2.13	0.77
31:BA:1112:G:H4'	31:BA:1113:U:OP2	1.84	0.77
31:BA:1531:C:H3'	31:BA:1532:C:C5'	2.15	0.77
31:BA:1771:C:C1'	31:BA:1786:A:C8	2.67	0.77
31:BA:2287:A:N6	31:BA:2344:U:N3	2.29	0.77
33:BD:69:ARG:NH2	33:BD:128:GLY:O	2.18	0.77
36:BG:22:ARG:HD3	36:BG:22:ARG:O	1.85	0.77
46:BU:90:VAL:HG12	46:BU:91:ASP:H	1.49	0.77
50:BY:44:ILE:HG22	50:BY:45:VAL:H	1.50	0.77
50:BY:47:LYS:N	50:BY:47:LYS:CD	2.48	0.77
7:CG:152:ALA:O	7:CG:155:ARG:HG3	1.84	0.77
31:DA:2471:C:H2'	31:DA:2471:C:O2	1.82	0.77
33:DD:35:LYS:HD2	33:DD:104:TYR:CE1	2.19	0.77
47:DV:13:ARG:HH11	47:DV:13:ARG:CG	1.97	0.77
50:DY:42:VAL:O	50:DY:65:ALA:HB3	1.83	0.77

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:650:G:O2'	1:AA:651:C:H5'	1.84	0.77
2:AB:19:HIS:NE2	2:AB:206:ASP:HB2	1.99	0.77
31:BA:2830:G:C8	31:BA:2830:G:H5'	2.19	0.77
32:BB:57:A:C5	36:BG:29:TRP:CD1	2.73	0.77
33:BD:155:LEU:HD23	33:BD:177:LEU:HD22	1.67	0.77
33:BD:210:GLY:O	33:BD:212:SER:N	2.17	0.77
39:BN:70:LYS:HB3	39:BN:87:LEU:HB2	1.66	0.77
1:CA:673:G:H2'	1:CA:674:G:H8	1.47	0.77
3:CC:73:PRO:O	3:CC:76:VAL:HG22	1.84	0.77
24:D2:34:GLU:O	24:D2:36:ARG:N	2.18	0.77
24:D2:49:LYS:CD	24:D2:53:LEU:HD22	2.14	0.77
31:DA:1396:U:O2	31:DA:1396:U:H2'	1.85	0.77
31:DA:2186:G:H3'	31:DA:2187:G:H5''	1.66	0.77
33:DD:155:LEU:HD23	33:DD:177:LEU:HD22	1.64	0.77
34:DE:11:MET:HB2	34:DE:23:VAL:O	1.85	0.77
39:DN:25:ARG:HH11	39:DN:25:ARG:HG3	1.50	0.77
41:DP:21:ARG:HH11	41:DP:21:ARG:HG3	1.50	0.77
41:DP:48:PRO:O	41:DP:49:ARG:C	2.22	0.77
41:DP:61:ARG:HD2	41:DP:61:ARG:H	1.50	0.77
44:DS:30:ARG:HD2	44:DS:35:ILE:HB	1.66	0.77
47:DV:60:GLU:HA	47:DV:60:GLU:OE1	1.83	0.77
50:DY:49:VAL:HG12	50:DY:53:PRO:HB3	1.66	0.77
1:AA:80:G:H1	1:AA:89:C:H41	1.30	0.77
1:AA:564:C:C6	17:AQ:31:LEU:HD11	2.19	0.77
1:AA:1158:C:H42	1:AA:1181:G:H1	1.29	0.77
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.66	0.77
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.67	0.77
31:BA:911:A:H2'	42:BQ:9:TYR:OH	1.84	0.77
31:BA:2564:A:C2	31:BA:2647:U:H4'	2.19	0.77
31:BA:2683:C:O2	40:BO:70:LYS:HE2	1.85	0.77
31:BA:2752:C:H2'	31:BA:2752:C:O2	1.83	0.77
36:BG:165:THR:OG1	36:BG:168:GLU:HG3	1.85	0.77
40:BO:4:PRO:O	40:BO:5:GLN:HB2	1.85	0.77
24:D2:16:LEU:H	24:D2:18:PRO:HD2	1.50	0.77
30:D8:6:THR:HG22	30:D8:63:PRO:HD3	1.66	0.77
31:DA:330:A:H2	31:DA:1210:A:C2'	1.98	0.77
49:DX:56:THR:C	49:DX:57:LEU:HD12	2.05	0.77
1:AA:262:A:H2'	1:AA:263:A:C8	2.20	0.77
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.85	0.77
31:BA:309:G:H5''	50:BY:18:GLY:HA3	1.67	0.77
31:BA:389:G:H22	41:BP:71:VAL:HG12	1.50	0.77

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:745:G:N2	55:BA:3362:TEL:H51	1.98	0.77
31:BA:2275:C:HO2'	42:BQ:83:MET:HA	1.47	0.77
42:BQ:9:TYR:O	42:BQ:9:TYR:CD2	2.37	0.77
9:CI:19:LEU:HD22	9:CI:59:PHE:HB3	1.67	0.77
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.49	0.77
25:D3:52:HIS:CE1	32:DB:83:G:H5''	2.20	0.77
31:DA:993:G:N3	47:DV:91:TYR:CE1	2.53	0.77
31:DA:2469:A:H2	31:DA:2481:G:H21	1.30	0.77
33:DD:267:SER:C	33:DD:269:PHE:H	1.87	0.77
36:DG:139:LEU:HB3	36:DG:149:VAL:HG11	1.67	0.77
45:DT:41:ARG:O	45:DT:43:GLN:N	2.16	0.77
47:DV:69:LYS:HB3	47:DV:93:GLU:OE2	1.83	0.77
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.50	0.77
30:B8:30:ARG:O	30:B8:31:HIS:C	2.24	0.77
31:BA:2660:A:H3'	31:BA:2660:A:N3	1.99	0.77
32:BB:15:A:H1'	32:BB:110:G:C8	2.19	0.77
33:BD:2:ALA:O	33:BD:3:VAL:HB	1.83	0.77
36:BG:139:LEU:HB3	36:BG:149:VAL:HG11	1.67	0.77
44:BS:74:ALA:HB1	44:BS:103:GLU:CG	2.13	0.77
47:BV:72:VAL:C	47:BV:88:ARG:NH2	2.37	0.77
49:BX:33:LYS:O	49:BX:35:THR:N	2.17	0.77
50:BY:28:LYS:H	50:BY:28:LYS:CD	1.89	0.77
1:CA:59:A:H2'	1:CA:59:A:N3	2.00	0.77
1:CA:709:G:H2'	1:CA:710:G:C8	2.20	0.77
1:CA:946:A:H2'	1:CA:947:G:H8	1.50	0.77
1:CA:1184:G:H2'	1:CA:1185:G:C8	2.20	0.77
23:D1:12:PRO:HD2	23:D1:62:VAL:CG2	2.12	0.77
31:DA:286:C:H2'	31:DA:287:C:H5'	1.67	0.77
31:DA:823:G:O2'	31:DA:824:A:H5'	1.83	0.77
31:DA:2777:G:H5''	31:DA:2778:A:H5'	1.65	0.77
33:DD:71:ASP:CB	33:DD:103:ARG:HH22	1.96	0.77
34:DE:120:TRP:CE3	34:DE:155:LYS:HD3	2.19	0.77
45:DT:32:TYR:HB3	45:DT:81:PRO:HB2	1.67	0.77
1:AA:992:U:H1'	1:AA:993:G:OP2	1.85	0.76
1:AA:1236:A:O2'	1:AA:1304:G:H4'	1.85	0.76
1:AA:1346:A:N1	1:AA:1374:A:H5''	1.99	0.76
11:AK:111:ASP:HA	18:AR:84:LYS:HG3	1.67	0.76
31:BA:141:A:C8	31:BA:1408:C:O2'	2.39	0.76
31:BA:2053:G:H1	31:BA:2616:C:H42	1.33	0.76
1:CA:93:G:H2'	1:CA:96:U:H5'	1.66	0.76
1:CA:586:C:H2'	1:CA:587:G:H5'	1.67	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:921:U:O2	1:CA:922:G:C2	2.38	0.76
4:CD:62:GLN:HE22	4:CD:65:ARG:HH21	1.32	0.76
31:DA:34:C:C2'	31:DA:35:G:OP1	2.33	0.76
31:DA:721:C:H2'	31:DA:721:C:O2	1.84	0.76
33:DD:91:ARG:HH11	33:DD:91:ARG:HG2	1.50	0.76
48:DW:73:ALA:O	48:DW:106:ILE:HD13	1.85	0.76
50:DY:96:ILE:HD12	50:DY:99:CYS:SG	2.25	0.76
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.48	0.76
11:AK:32:ILE:HD11	11:AK:68:ALA:HB1	1.67	0.76
28:B6:10:LEU:HD12	30:B8:35:GLN:NE2	1.99	0.76
31:BA:1843:C:H5'	33:BD:253:GLN:OE1	1.85	0.76
31:BA:2492:U:H2'	31:BA:2493:U:H6	1.48	0.76
47:BV:24:LYS:HE3	47:BV:68:LYS:HE3	1.66	0.76
47:BV:66:ARG:HB3	47:BV:95:LEU:O	1.83	0.76
16:CP:22:THR:HG22	16:CP:32:TYR:HA	1.67	0.76
23:D1:71:TYR:CE1	38:DI:27:ARG:HD2	2.20	0.76
27:D5:54:GLY:O	27:D5:56:LYS:NZ	2.17	0.76
31:DA:1580:A:OP2	31:DA:1580:A:H8	1.66	0.76
23:B1:34:THR:HG23	31:BA:388:G:OP1	1.85	0.76
31:BA:1719:G:C2'	31:BA:1720:U:H5'	2.15	0.76
41:BP:79:ARG:NH2	41:BP:109:GLY:HA2	2.00	0.76
1:CA:198:G:N2	1:CA:199:G:H1'	2.00	0.76
1:CA:707:C:O2'	1:CA:708:C:H5'	1.84	0.76
1:CA:783:C:O2'	1:CA:784:C:H5'	1.83	0.76
1:CA:1117:G:H4'	9:CI:104:ARG:NH2	2.00	0.76
27:D5:42:PRO:O	27:D5:43:HIS:HB2	1.86	0.76
28:D6:25:LYS:O	31:DA:2286:A:H2	1.67	0.76
30:D8:30:ARG:HH21	41:DP:62:LEU:HB2	1.50	0.76
31:DA:389:G:N2	41:DP:71:VAL:HG12	1.99	0.76
31:DA:536:A:H2'	31:DA:537:C:C6	2.20	0.76
42:DQ:106:VAL:HG21	42:DQ:114:ALA:HB1	1.67	0.76
46:DU:17:ILE:HG23	46:DU:39:LEU:HD12	1.66	0.76
1:AA:673:G:H2'	1:AA:674:G:H8	1.50	0.76
7:AG:79:ARG:NE	7:AG:84:ASN:HD21	1.83	0.76
31:BA:234:C:H2'	31:BA:235:U:H6	1.50	0.76
31:BA:2470:G:C6	31:BA:2471:C:H5	2.03	0.76
33:BD:267:SER:C	33:BD:269:PHE:N	2.36	0.76
37:BH:20:ALA:HB1	37:BH:21:PRO:HD2	1.67	0.76
41:BP:21:ARG:HH11	41:BP:21:ARG:HG3	1.49	0.76
50:BY:42:VAL:O	50:BY:65:ALA:HB3	1.85	0.76
51:BZ:108:PRO:HA	51:BZ:142:SER:HA	1.66	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:191:G:C4	20:CT:105:SER:HB3	2.20	0.76
1:CA:992:U:H1'	1:CA:993:G:OP2	1.85	0.76
2:CB:126:GLU:O	2:CB:130:ARG:HG3	1.85	0.76
31:DA:1338:G:O2'	31:DA:1339:G:H5'	1.85	0.76
31:DA:1499:C:C2'	31:DA:1500:G:H5'	2.15	0.76
31:DA:2335:A:O2'	31:DA:2336:A:H5''	1.86	0.76
31:DA:2544:G:H1'	31:DA:2646:C:H4'	1.68	0.76
35:DF:139:PHE:HB2	35:DF:166:ALA:HB1	1.67	0.76
37:DH:155:SER:O	37:DH:157:TYR:N	2.17	0.76
38:DI:133:HIS:HB2	38:DI:134:PRO:HD3	1.67	0.76
49:DX:50:LYS:HB3	49:DX:82:GLN:HB3	1.67	0.76
51:DZ:130:PRO:HA	51:DZ:133:ILE:HD11	1.68	0.76
1:AA:113:G:H2'	1:AA:114:U:H6	1.50	0.76
31:BA:607:U:H3	31:BA:621:A:H2	1.30	0.76
31:BA:2818:G:O2'	31:BA:2819:G:H5'	1.86	0.76
49:BX:55:ASN:HB2	49:BX:78:LYS:HD3	1.67	0.76
30:D8:43:GLN:O	30:D8:44:LYS:HD2	1.86	0.76
31:DA:667:U:H2'	31:DA:668:G:H5'	1.67	0.76
31:DA:2562:U:H1'	40:DO:23:ARG:NH1	2.00	0.76
31:DA:2854:G:H2'	31:DA:2855:C:C6	2.21	0.76
39:DN:40:PRO:C	46:DU:64:ARG:HH22	1.88	0.76
43:DR:116:LEU:O	43:DR:117:VAL:HB	1.84	0.76
46:DU:93:LYS:H	46:DU:93:LYS:CD	1.96	0.76
51:DZ:109:ALA:HB1	51:DZ:145:GLU:OE2	1.85	0.76
1:AA:41:G:H2'	1:AA:42:G:C8	2.20	0.76
1:AA:414:A:H2'	1:AA:415:A:H8	1.50	0.76
1:AA:677:U:H3	1:AA:713:G:H22	1.34	0.76
31:BA:542:C:N4	31:BA:543:C:N4	2.34	0.76
31:BA:1210:A:C5'	31:BA:1210:A:C8	2.66	0.76
31:BA:1245:G:OP1	41:BP:16:ARG:HD2	1.86	0.76
31:BA:1499:C:C2'	31:BA:1500:G:H5'	2.15	0.76
33:BD:70:TRP:CH2	33:BD:150:LYS:HA	2.19	0.76
37:BH:30:LYS:HB2	37:BH:79:VAL:O	1.86	0.76
41:BP:66:GLY:O	41:BP:67:MET:C	2.20	0.76
42:BQ:141:GLN:HB3	51:BZ:70:LEU:CD1	2.15	0.76
48:BW:75:TYR:HE1	48:BW:104:THR:CB	1.96	0.76
50:BY:39:VAL:HG12	50:BY:40:GLU:H	1.51	0.76
4:CD:62:GLN:HE21	4:CD:62:GLN:HA	1.51	0.76
16:CP:28:ARG:HH11	16:CP:28:ARG:CG	1.96	0.76
24:D2:44:LEU:HD12	24:D2:44:LEU:O	1.85	0.76
29:D7:7:PRO:HB2	31:DA:1309:G:H4'	1.66	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:7:G:H2'	31:DA:8:A:O4'	1.84	0.76
31:DA:2324:C:H5''	31:DA:2325:G:C5'	2.14	0.76
34:DE:134:ILE:H	34:DE:134:ILE:CD1	1.98	0.76
43:DR:11:ASN:CG	43:DR:12:ARG:H	1.88	0.76
1:AA:113:G:H2'	1:AA:114:U:C6	2.21	0.76
1:AA:1117:G:H4'	9:AI:104:ARG:NH2	2.00	0.76
31:BA:1658:C:OP1	34:BE:132:HIS:ND1	2.19	0.76
33:BD:17:THR:HG23	33:BD:205:VAL:H	1.50	0.76
39:BN:15:LEU:HD21	39:BN:55:VAL:CG2	2.15	0.76
41:BP:61:ARG:H	41:BP:61:ARG:HD2	1.49	0.76
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.49	0.76
31:DA:1339:G:H21	31:DA:1603:A:H1'	1.47	0.76
31:DA:1689:A:H62	31:DA:1698:A:H2	1.33	0.76
39:DN:51:PHE:CZ	39:DN:119:ARG:HD3	2.21	0.76
41:DP:17:LYS:O	41:DP:19:VAL:N	2.19	0.76
41:DP:133:SER:O	41:DP:137:LYS:HG2	1.86	0.76
42:DQ:141:GLN:HB3	51:DZ:70:LEU:CD1	2.16	0.76
44:DS:71:ARG:O	44:DS:74:ALA:HB3	1.86	0.76
49:DX:76:ARG:O	49:DX:77:LYS:HB2	1.83	0.76
50:DY:8:LYS:CE	50:DY:72:VAL:HG23	2.16	0.76
50:DY:17:SER:CB	50:DY:71:LYS:HD2	2.15	0.76
1:AA:93:G:H2'	1:AA:96:U:H5'	1.67	0.76
1:AA:818:G:O2'	1:AA:819:A:H5''	1.86	0.76
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.20	0.76
1:AA:1392:G:O2'	1:AA:1393:U:H5'	1.85	0.76
24:B2:26:ARG:NE	24:B2:29:LYS:HE2	2.01	0.76
24:B2:34:GLU:O	24:B2:36:ARG:N	2.19	0.76
31:BA:389:G:N2	41:BP:71:VAL:HG12	2.00	0.76
31:BA:997:G:OP1	46:BU:93:LYS:HD3	1.85	0.76
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.51	0.76
28:D6:17:LYS:C	28:D6:18:ARG:HD3	2.06	0.76
30:D8:35:GLN:HA	31:DA:2420:C:P	2.26	0.76
31:DA:1839:G:N7	31:DA:1927:A:H1'	2.00	0.76
31:DA:1987:G:H2'	31:DA:1988:C:H6	1.51	0.76
39:DN:133:GLN:O	39:DN:135:PRO:HD3	1.86	0.76
49:DX:55:ASN:HB2	49:DX:78:LYS:HD3	1.66	0.76
1:AA:191:G:C4	20:AT:105:SER:HB3	2.20	0.76
1:AA:600:C:H2'	1:AA:601:C:C6	2.21	0.76
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.51	0.76
27:B5:46:CYS:SG	27:B5:47:PRO:HD2	2.25	0.76
55:BA:3362:TEL:H232	55:BA:3362:TEL:H121	1.68	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:55:VAL:HG12	39:BN:126:PRO:HA	1.65	0.76
42:BQ:48:GLU:O	42:BQ:52:VAL:HG12	1.84	0.76
45:BT:98:LYS:HB3	45:BT:100:TYR:CE1	2.21	0.76
1:CA:509:A:H4'	1:CA:510:A:OP1	1.86	0.76
12:CL:27:LEU:O	12:CL:29:GLY:N	2.19	0.76
19:CS:22:LEU:HD13	19:CS:27:GLU:HB2	1.67	0.76
31:DA:598:G:H5'	41:DP:15:ARG:HD2	1.68	0.76
31:DA:966:G:C4	31:DA:967:C:C5	2.74	0.76
31:DA:1490:A:H5'	31:DA:1491:G:OP2	1.85	0.76
31:DA:1515:G:O2'	31:DA:1516:C:H5'	1.86	0.76
31:DA:2261:C:O2'	31:DA:2262:U:H5'	1.86	0.76
31:DA:2292:C:O2'	31:DA:2293:C:H5'	1.86	0.76
47:DV:4:ILE:O	47:DV:39:LEU:HB3	1.86	0.76
51:DZ:108:PRO:HA	51:DZ:142:SER:HA	1.66	0.76
1:AA:539:A:H2'	1:AA:540:G:C8	2.20	0.76
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.68	0.76
31:BA:614(C):A:H4'	31:BA:615:G:OP1	1.85	0.76
31:BA:1022:G:N2	31:BA:1142(A):A:C2	2.53	0.76
31:BA:2646:C:OP2	31:BA:2732:G:O2'	2.04	0.76
33:BD:145:VAL:HG12	33:BD:146:GLU:O	1.85	0.76
42:BQ:38:GLU:OE1	42:BQ:127:ILE:HG22	1.85	0.76
45:BT:35:LYS:O	45:BT:37:GLY:N	2.20	0.76
45:BT:65:LYS:HE3	45:BT:66:VAL:N	2.01	0.76
1:CA:41:G:H2'	1:CA:42:G:C8	2.21	0.76
1:CA:600:C:H2'	1:CA:601:C:C6	2.20	0.76
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.50	0.76
3:CC:73:PRO:HA	3:CC:76:VAL:HG13	1.68	0.76
27:D5:48:GLU:O	27:D5:50:GLY:N	2.19	0.76
31:DA:65:C:H2'	31:DA:66:C:H6	1.50	0.76
31:DA:1141:U:P	39:DN:63:THR:HG21	2.25	0.76
31:DA:2287:A:N3	31:DA:2289:G:C8	2.54	0.76
31:DA:2723:C:H5''	43:DR:2:ARG:HD2	1.67	0.76
1:AA:153:C:H42	1:AA:168:G:H1	1.33	0.75
1:AA:377:G:O2'	1:AA:378:G:H5'	1.86	0.75
3:AC:134:ILE:HG23	3:AC:151:VAL:HB	1.68	0.75
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.68	0.75
28:B6:10:LEU:HD22	28:B6:10:LEU:N	2.01	0.75
30:B8:25:MET:HG3	41:BP:64:LYS:CB	2.16	0.75
31:BA:142:A:H5'	31:BA:142(A):C:OP2	1.85	0.75
31:BA:1022:G:H22	31:BA:1142(A):A:H2	1.34	0.75
32:BB:28:C:H2'	32:BB:29:A:O4'	1.86	0.75

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:48:GLN:HE22	34:BE:64:LYS:NZ	1.83	0.75
45:BT:3:ARG:HB2	45:BT:6:LEU:HB3	1.68	0.75
47:BV:75:PHE:HE1	47:BV:89:GLN:HB3	1.46	0.75
49:BX:72:LYS:HG3	49:BX:73:ARG:H	1.51	0.75
51:BZ:126:VAL:HA	51:BZ:164:ALA:HB3	1.66	0.75
1:CA:560:U:H5'	1:CA:566:G:N2	2.01	0.75
1:CA:1065:U:H1'	1:CA:1066:C:OP2	1.86	0.75
31:DA:142:A:H8	31:DA:1595:G:H21	1.32	0.75
32:DB:7:G:H3'	32:DB:8:U:H5''	1.68	0.75
37:DH:137:ASP:O	37:DH:138:LYS:HB2	1.85	0.75
39:DN:18:ALA:CB	39:DN:26:LEU:HD22	2.16	0.75
1:AA:250:A:H4'	1:AA:251:G:O5'	1.86	0.75
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.02	0.75
16:AP:82:GLN:N	16:AP:82:GLN:HE21	1.85	0.75
31:BA:154:G:H1	31:BA:172:C:N4	1.83	0.75
31:BA:1797:C:C2'	31:BA:1798:U:H5'	2.16	0.75
31:BA:2307:G:H21	31:BA:2308:G:H5'	1.50	0.75
55:BA:3362:TEL:C26	55:BA:3362:TEL:O32	2.30	0.75
34:BE:51:PHE:O	34:BE:52:LEU:HD12	1.86	0.75
39:BN:47:ALA:CB	39:BN:112:LEU:HD11	2.16	0.75
40:BO:63:VAL:HG11	40:BO:85:VAL:HG23	1.67	0.75
41:BP:112:LEU:HD22	41:BP:113:LYS:H	1.49	0.75
43:BR:28:LEU:HD12	43:BR:48:VAL:HG21	1.69	0.75
45:BT:109:GLU:HA	45:BT:112:ARG:HG3	1.68	0.75
1:CA:414:A:H2'	1:CA:415:A:H8	1.51	0.75
1:CA:522:C:H41	12:CL:53:ARG:NH2	1.84	0.75
1:CA:1236:A:O2'	1:CA:1304:G:H4'	1.85	0.75
8:CH:102:ARG:HE	8:CH:102:ARG:N	1.82	0.75
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.68	0.75
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	1.86	0.75
16:CP:82:GLN:N	16:CP:82:GLN:HE21	1.84	0.75
31:DA:154:G:H1	31:DA:172:C:N4	1.84	0.75
31:DA:1568:G:P	33:DD:63:ARG:HH22	2.09	0.75
31:DA:1603:A:H8	31:DA:1603:A:H5'	1.51	0.75
31:DA:1956:U:H2'	31:DA:1957:C:H5'	1.69	0.75
32:DB:57:A:C2	32:DB:58:A:C8	2.74	0.75
39:DN:65:LYS:HD3	39:DN:67:LEU:HB2	1.68	0.75
51:DZ:69:THR:HG22	51:DZ:90:VAL:HA	1.66	0.75
1:AA:1088:G:H1	1:AA:1097:C:H42	1.33	0.75
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.69	0.75
22:B0:31:VAL:HB	22:B0:35:ASN:ND2	2.01	0.75

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:94:C:H5'	31:BA:94(A):G:OP2	1.85	0.75
31:BA:795:C:O2'	31:BA:796:C:H5'	1.87	0.75
31:BA:1205:U:H4'	31:BA:1206:G:OP2	1.86	0.75
32:BB:7:G:H3'	32:BB:8:U:H5''	1.65	0.75
34:BE:34:VAL:HG22	34:BE:48:GLN:HE21	1.50	0.75
34:BE:134:ILE:H	34:BE:134:ILE:CD1	1.98	0.75
46:BU:83:LEU:HB3	46:BU:88:ILE:HD11	1.67	0.75
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.22	0.75
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.16	0.75
31:DA:196:A:O4'	41:DP:46:LYS:HE2	1.87	0.75
31:DA:779:U:OP1	33:DD:49:ILE:HG13	1.86	0.75
31:DA:2327:A:H2'	31:DA:2328:A:H8	1.51	0.75
37:DH:89:ILE:HD13	37:DH:90:LYS:N	2.01	0.75
40:DO:18:LYS:HB2	40:DO:45:GLU:HG2	1.68	0.75
40:DO:23:ARG:HH11	40:DO:23:ARG:HG2	1.49	0.75
44:DS:28:VAL:HG11	44:DS:97:ARG:NH1	2.01	0.75
45:DT:55:ASN:H	45:DT:59:THR:HB	1.48	0.75
1:AA:63:C:H42	1:AA:104:G:H1	1.33	0.75
1:AA:708:C:P	11:AK:85:ARG:HH22	2.09	0.75
1:AA:709:G:H2'	1:AA:710:G:C8	2.22	0.75
30:B8:4:MET:HE1	31:BA:593:G:O4'	1.86	0.75
31:BA:2663:G:C8	31:BA:2664:G:N7	2.55	0.75
33:BD:8:PRO:HB3	33:BD:14:ARG:HB2	1.67	0.75
36:BG:82:LEU:HB3	36:BG:87:PRO:HG3	1.67	0.75
37:BH:41:MET:SD	37:BH:55:PRO:HB3	2.26	0.75
41:BP:21:ARG:HG3	41:BP:21:ARG:NH1	2.02	0.75
45:BT:89:VAL:HG11	45:BT:91:ARG:HE	1.51	0.75
51:BZ:10:ARG:NH2	51:BZ:26:GLY:H	1.84	0.75
1:CA:922:G:H1'	5:CE:19:MET:N	2.01	0.75
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.86	0.75
1:CA:1422:G:O2'	1:CA:1423:G:H5'	1.85	0.75
31:DA:34:C:H3'	31:DA:34:C:H6	1.51	0.75
31:DA:2022:U:O2'	31:DA:2617:C:H5'	1.86	0.75
35:DF:156:LEU:HD21	35:DF:163:VAL:HG12	1.68	0.75
36:DG:29:TRP:C	36:DG:31:VAL:H	1.86	0.75
37:DH:30:LYS:HB2	37:DH:79:VAL:O	1.86	0.75
41:DP:21:ARG:HG3	41:DP:21:ARG:NH1	2.01	0.75
1:AA:1065:U:H1'	1:AA:1066:C:OP2	1.86	0.75
22:B0:23:VAL:HG21	31:BA:857:C:H4'	1.67	0.75
33:BD:91:ARG:HG2	33:BD:91:ARG:NH1	2.00	0.75
34:BE:101:ARG:HD3	34:BE:169:ASN:O	1.86	0.75

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:65:THR:HA	40:BO:82:ASN:HB3	1.67	0.75
41:BP:21:ARG:HH11	41:BP:21:ARG:CG	1.99	0.75
45:BT:55:ASN:N	45:BT:59:THR:HB	2.01	0.75
51:BZ:109:ALA:HB1	51:BZ:145:GLU:OE2	1.86	0.75
31:DA:285:C:H2'	31:DA:286:C:C5'	2.17	0.75
31:DA:301:G:C4	31:DA:302:C:C5	2.75	0.75
31:DA:1720:U:H2'	31:DA:1721:G:O4'	1.86	0.75
31:DA:2092:U:H4'	31:DA:2093:G:O5'	1.87	0.75
32:DB:65:C:H41	32:DB:109:C:H2'	1.50	0.75
39:DN:4:TYR:N	39:DN:4:TYR:CD1	2.54	0.75
42:DQ:9:TYR:O	42:DQ:9:TYR:CD2	2.40	0.75
43:DR:96:ARG:HH21	43:DR:117:VAL:HG23	1.50	0.75
50:DY:8:LYS:HB2	50:DY:28:LYS:NZ	2.01	0.75
1:AA:166:G:O2'	1:AA:167:G:H5'	1.87	0.75
31:BA:354:G:H8	31:BA:354:G:O5'	1.70	0.75
31:BA:1141:U:P	39:BN:63:THR:HG21	2.26	0.75
33:BD:35:LYS:HE3	33:BD:64:ILE:C	2.07	0.75
36:BG:63:ILE:HG22	36:BG:143:GLU:HG3	1.68	0.75
1:CA:590:C:H2'	1:CA:591:U:C6	2.21	0.75
1:CA:921:U:O2'	1:CA:922:G:C8	2.35	0.75
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.69	0.75
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.01	0.75
10:CJ:63:PHE:HB3	14:CN:57:ARG:O	1.87	0.75
22:D0:23:VAL:HG21	31:DA:857:C:H4'	1.68	0.75
28:D6:51:GLU:HG2	28:D6:52:VAL:N	2.02	0.75
55:DA:3320:TEL:C26	55:DA:3320:TEL:O32	2.30	0.75
36:DG:165:THR:OG1	36:DG:168:GLU:HG3	1.87	0.75
45:DT:100:TYR:HB3	45:DT:103:ARG:HE	1.50	0.75
51:DZ:19:ARG:HG2	51:DZ:19:ARG:NH1	1.99	0.75
1:AA:1157:A:H4'	1:AA:1158:C:O5'	1.87	0.75
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.69	0.75
29:B7:7:PRO:HB2	31:BA:1309:G:H4'	1.68	0.75
31:BA:61:G:H1	31:BA:94:C:N4	1.83	0.75
31:BA:481:G:OP2	50:BY:47:LYS:HE2	1.86	0.75
31:BA:1292:U:H2'	31:BA:1293:C:H6	1.52	0.75
31:BA:1418:G:OP1	31:BA:1588:C:O2'	2.04	0.75
31:BA:1543:C:C6	31:BA:1543:C:OP2	2.40	0.75
31:BA:1712:C:H2'	31:BA:1713:U:H6	1.49	0.75
31:BA:1741:A:H2'	31:BA:1742:G:N3	2.00	0.75
31:BA:2273:A:O2'	31:BA:2274:A:H5'	1.87	0.75
31:BA:2751:G:H3'	31:BA:2752:C:H6	1.52	0.75

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:10:VAL:HG22	40:BO:17:ARG:O	1.85	0.75
1:CA:708:C:P	11:CK:85:ARG:HH22	2.10	0.75
31:DA:819:A:C4	31:DA:1189:A:C2	2.75	0.75
31:DA:997:G:H2'	31:DA:998:C:H5'	1.67	0.75
31:DA:1112:G:H4'	31:DA:1113:U:OP2	1.85	0.75
31:DA:1719:G:C2'	31:DA:1720:U:H5'	2.17	0.75
1:AA:622:A:C8	1:AA:623:C:C6	2.75	0.75
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.68	0.75
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.14	0.75
12:AL:58:VAL:HG21	12:AL:85:ILE:HD11	1.69	0.75
25:B3:52:HIS:CE1	32:BB:83:G:H5''	2.22	0.75
39:BN:78:TYR:HD1	39:BN:79:PRO:CD	2.00	0.75
41:BP:124:LYS:HA	41:BP:143:GLY:HA3	1.69	0.75
45:BT:100:TYR:HB3	45:BT:103:ARG:HE	1.50	0.75
1:CA:142:G:C2	1:CA:143:A:C8	2.75	0.75
1:CA:618:C:H5''	1:CA:619:U:H5''	1.69	0.75
30:D8:32:LEU:HB3	30:D8:35:GLN:H	1.51	0.75
31:DA:966:G:H2'	31:DA:967:C:C6	2.20	0.75
31:DA:1331:A:O2'	31:DA:1332:G:H8	1.69	0.75
31:DA:1403:C:H5''	31:DA:1471:A:C1'	2.14	0.75
31:DA:2208:A:O2'	31:DA:2218:U:OP2	2.03	0.75
33:DD:95:LEU:HD21	33:DD:105:ILE:CG2	2.16	0.75
36:DG:82:LEU:HB3	36:DG:87:PRO:HG3	1.69	0.75
1:AA:499:A:H4'	1:AA:500:G:OP1	1.87	0.75
4:AD:172:PRO:HB2	4:AD:187:ARG:HH22	1.52	0.75
32:BB:47:C:O2'	44:BS:93:LYS:HG2	1.87	0.75
34:BE:152:LYS:CD	39:BN:78:TYR:HB2	2.16	0.75
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.68	0.75
23:D1:87:PRO:CD	23:D1:88:LYS:H	2.00	0.75
31:DA:2808:U:C2'	31:DA:2809:A:H5'	2.15	0.75
55:DA:3320:TEL:H232	55:DA:3320:TEL:H121	1.67	0.75
33:DD:35:LYS:HE3	33:DD:64:ILE:C	2.07	0.75
33:DD:133:LEU:HA	33:DD:136:ILE:HD13	1.68	0.75
34:DE:34:VAL:HG22	34:DE:48:GLN:HE21	1.52	0.75
34:DE:36:ARG:NH2	34:DE:88:GLY:HA2	2.01	0.75
39:DN:3:THR:C	39:DN:4:TYR:CD1	2.60	0.75
39:DN:65:LYS:HA	39:DN:65:LYS:CE	2.16	0.75
42:DQ:38:GLU:OE1	42:DQ:127:ILE:HG22	1.87	0.75
1:AA:1158:C:N3	1:AA:1181:G:N2	2.35	0.74
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.87	0.74
11:AK:27:ASN:HA	11:AK:55:LYS:O	1.87	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:58:ILE:O	30:B8:61:LEU:HG	1.85	0.74
31:BA:2340:G:O2'	31:BA:2341:G:H5'	1.86	0.74
45:BT:118:ARG:HA	45:BT:121:ILE:HB	1.69	0.74
47:BV:90:PRO:CD	47:BV:91:TYR:H	1.99	0.74
50:BY:2:ARG:O	50:BY:4:LYS:N	2.20	0.74
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.52	0.74
11:CK:111:ASP:HA	18:CR:84:LYS:HG3	1.69	0.74
23:D1:41:ARG:NH2	31:DA:205:G:O6	2.18	0.74
31:DA:195:A:C8	31:DA:197:A:OP1	2.40	0.74
31:DA:1503:U:H2'	31:DA:1504:C:C6	2.22	0.74
31:DA:1685:C:O2'	31:DA:1686:C:H5'	1.87	0.74
34:DE:93:VAL:N	34:DE:95:ILE:HD12	1.99	0.74
41:DP:7:ARG:HB3	41:DP:8:PRO:HD3	1.68	0.74
49:DX:33:LYS:O	49:DX:35:THR:N	2.20	0.74
29:B7:8:ASN:C	29:B7:8:ASN:HD22	1.87	0.74
31:BA:2854:G:H2'	31:BA:2855:C:H6	1.52	0.74
42:BQ:8:LYS:HD2	42:BQ:9:TYR:N	2.02	0.74
47:BV:79:VAL:O	47:BV:80:GLN:CB	2.31	0.74
30:D8:59:LYS:CD	41:DP:50:ARG:HB3	2.17	0.74
31:DA:354:G:H8	31:DA:354:G:O5'	1.69	0.74
34:DE:152:LYS:CD	39:DN:78:TYR:HB2	2.17	0.74
48:DW:92:ARG:HG2	48:DW:92:ARG:NH1	2.02	0.74
49:DX:72:LYS:HG2	49:DX:74:PRO:HD3	1.68	0.74
1:AA:946:A:H2'	1:AA:947:G:H8	1.51	0.74
31:BA:588:U:O4	31:BA:670:A:H1'	1.87	0.74
31:BA:966:G:C4	31:BA:967:C:C5	2.76	0.74
31:BA:966:G:H2'	31:BA:967:C:H6	1.52	0.74
34:BE:36:ARG:NH2	34:BE:88:GLY:HA2	2.02	0.74
46:BU:83:LEU:HG	46:BU:88:ILE:CG1	2.15	0.74
47:BV:13:ARG:CG	47:BV:13:ARG:HH11	2.00	0.74
28:D6:26:ASN:HD22	28:D6:32:ASN:ND2	1.85	0.74
31:DA:745:G:N2	55:DA:3320:TEL:H51	2.00	0.74
31:DA:1531:C:H3'	31:DA:1532:C:C5'	2.16	0.74
38:DI:109:ILE:H	38:DI:109:ILE:HD12	1.51	0.74
41:DP:51:PHE:O	41:DP:52:GLU:HB2	1.87	0.74
1:AA:198:G:N2	1:AA:199:G:H1'	2.02	0.74
1:AA:328:C:O2	1:AA:328:C:H2'	1.87	0.74
1:AA:979:C:H3'	1:AA:980:C:H5''	1.68	0.74
22:B0:40:GLN:HG3	22:B0:42:GLY:O	1.87	0.74
27:B5:4:HIS:HB3	27:B5:5:PRO:HD3	1.70	0.74
31:BA:286:C:C2'	31:BA:287:C:H5'	2.17	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1899:G:N2	31:BA:1902:C:C5	2.55	0.74
37:BH:33:LEU:HD11	37:BH:136:ILE:O	1.86	0.74
39:BN:47:ALA:HB2	39:BN:112:LEU:CD1	2.17	0.74
42:BQ:8:LYS:CD	42:BQ:9:TYR:H	2.00	0.74
44:BS:71:ARG:HG2	44:BS:101:LEU:HG	1.70	0.74
1:CA:501:C:H2'	1:CA:502:G:H8	1.51	0.74
1:CA:664:G:N2	1:CA:741:G:H1	1.80	0.74
1:CA:1442:G:C5	1:CA:1442(B):A:C2	2.76	0.74
4:CD:31:CYS:C	4:CD:33:MET:H	1.91	0.74
31:DA:114:U:H5''	31:DA:115:C:OP2	1.87	0.74
31:DA:2807:G:H22	31:DA:2892:A:N6	1.85	0.74
32:DB:15:A:H1'	32:DB:110:G:C8	2.22	0.74
32:DB:67:G:C5	32:DB:68:C:C5	2.74	0.74
34:DE:4:ILE:HD13	34:DE:28:ALA:HB1	1.69	0.74
40:DO:1:MET:HE3	40:DO:67:LYS:HG2	1.67	0.74
41:DP:83:VAL:HG12	41:DP:112:LEU:HD21	1.66	0.74
44:DS:87:PHE:O	44:DS:88:ASP:HB2	1.88	0.74
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.52	0.74
28:B6:26:ASN:HD22	28:B6:32:ASN:ND2	1.86	0.74
31:BA:909:A:H2'	31:BA:912:C:H5	1.51	0.74
31:BA:2712:U:H1'	31:BA:2712(A):A:C8	2.22	0.74
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.22	0.74
31:DA:244:A:C2	31:DA:255:A:C4	2.75	0.74
31:DA:1741:A:H2'	31:DA:1742:G:N3	2.01	0.74
31:DA:1963:U:H4'	31:DA:1964:G:OP1	1.85	0.74
31:DA:2722:G:O2'	43:DR:5:LYS:HB2	1.86	0.74
34:DE:75:VAL:C	34:DE:77:ILE:H	1.91	0.74
41:DP:62:LEU:H	41:DP:62:LEU:HD22	1.50	0.74
23:B1:8:SER:N	23:B1:46:LEU:HD11	2.03	0.74
31:BA:806:C:C5	41:BP:39:LYS:HE2	2.22	0.74
31:BA:1405:U:H2'	31:BA:1406:U:C6	2.21	0.74
35:BF:178:PRO:HB2	35:BF:201:VAL:HG11	1.69	0.74
37:BH:89:ILE:CD1	37:BH:90:LYS:H	2.00	0.74
41:BP:48:PRO:O	41:BP:49:ARG:C	2.25	0.74
44:BS:89:ARG:HB3	44:BS:92:TYR:CB	2.16	0.74
50:BY:18:GLY:O	50:BY:20:TYR:N	2.20	0.74
1:CA:979:C:H3'	1:CA:980:C:H5''	1.68	0.74
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.70	0.74
4:CD:148:VAL:HG12	4:CD:149:ALA:N	2.03	0.74
31:DA:1839:G:C8	31:DA:1927:A:H1'	2.22	0.74
31:DA:2830:G:H8	31:DA:2830:G:C5'	2.01	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:65:C:H42	32:DB:109:C:H2'	1.53	0.74
35:DF:80:ALA:O	35:DF:83:PHE:HB2	1.87	0.74
39:DN:73:THR:O	39:DN:75:TYR:N	2.20	0.74
39:DN:112:LEU:HD12	39:DN:112:LEU:O	1.88	0.74
44:DS:29:PHE:H	44:DS:89:ARG:HD2	1.49	0.74
45:DT:23:ARG:HB2	45:DT:24:PRO:HD2	1.67	0.74
49:DX:25:LYS:HE3	49:DX:26:TYR:CE1	2.22	0.74
1:AA:1422:G:O3'	40:BO:48:PRO:HB3	1.87	0.74
4:AD:36:ARG:HB3	4:AD:38:TYR:CE1	2.22	0.74
31:BA:142:A:H8	31:BA:1595:G:H21	1.32	0.74
31:BA:271(D):G:H1	31:BA:271(T):C:H42	1.33	0.74
31:BA:620:G:H5''	31:BA:620:G:N3	2.03	0.74
41:BP:30:THR:HG22	41:BP:31:ALA:N	2.00	0.74
41:BP:133:SER:O	41:BP:137:LYS:HG2	1.87	0.74
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.02	0.74
4:CD:172:PRO:HB2	4:CD:187:ARG:HH22	1.51	0.74
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.69	0.74
31:DA:286:C:C2'	31:DA:287:C:H5'	2.17	0.74
31:DA:586:A:N1	31:DA:809:G:O2'	2.20	0.74
31:DA:1653:G:H4'	31:DA:1654:A:O5'	1.87	0.74
39:DN:67:LEU:HD22	39:DN:88:GLU:OE2	1.88	0.74
42:DQ:24:GLY:HA3	51:DZ:78:LYS:CD	2.17	0.74
46:DU:88:ILE:O	46:DU:90:VAL:N	2.18	0.74
49:DX:55:ASN:HB2	49:DX:78:LYS:CD	2.16	0.74
50:DY:75:ILE:CD1	50:DY:79:CYS:HA	2.17	0.74
1:AA:394:G:H2'	1:AA:395:C:H6	1.52	0.74
1:AA:509:A:H3'	1:AA:509:A:OP2	1.88	0.74
1:AA:618:C:H5''	1:AA:619:U:H5''	1.69	0.74
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.21	0.74
3:AC:73:PRO:HA	3:AC:76:VAL:HG13	1.69	0.74
31:BA:674:G:O2'	35:BF:74:ARG:HG3	1.88	0.74
31:BA:1270:C:H5''	31:BA:1271:G:O5'	1.86	0.74
31:BA:1839:G:N7	31:BA:1927:A:H1'	2.03	0.74
31:BA:1865:G:H5'	31:BA:1866:C:OP2	1.87	0.74
34:BE:93:VAL:N	34:BE:95:ILE:HD12	2.02	0.74
39:BN:51:PHE:CZ	39:BN:119:ARG:HD3	2.23	0.74
45:BT:61:PHE:CZ	45:BT:85:LYS:HE2	2.22	0.74
49:BX:40:LYS:HG3	49:BX:41:ASN:N	2.03	0.74
1:CA:113:G:H2'	1:CA:114:U:H6	1.53	0.74
1:CA:1088:G:H1	1:CA:1097:C:H42	1.34	0.74
16:CP:28:ARG:HG2	16:CP:28:ARG:NH1	2.00	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:271(D):G:H1	31:DA:271(T):C:H42	1.33	0.74
31:DA:588:U:O4	31:DA:670:A:H1'	1.88	0.74
31:DA:667:U:C2'	31:DA:668:G:H5'	2.18	0.74
31:DA:1047:G:H2'	31:DA:1110:G:N2	2.01	0.74
31:DA:2404:C:C2'	31:DA:2405:G:H5'	2.17	0.74
35:DF:178:PRO:HB2	35:DF:201:VAL:HG11	1.69	0.74
37:DH:20:ALA:HB1	37:DH:21:PRO:HD2	1.68	0.74
41:DP:62:LEU:H	41:DP:62:LEU:CD1	1.94	0.74
1:AA:59:A:H5''	1:AA:60:A:C5'	2.16	0.74
1:AA:424:G:H2'	1:AA:425:G:H8	1.51	0.74
1:AA:586:C:H2'	1:AA:587:G:H5'	1.69	0.74
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.23	0.74
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.70	0.74
12:AL:20:LYS:HD3	12:AL:20:LYS:H	1.53	0.74
31:BA:943:U:OP2	41:BP:38:GLN:CD	2.26	0.74
31:BA:2659:G:C2'	31:BA:2663:G:H22	1.99	0.74
32:BB:20:C:H2'	32:BB:21:G:H5''	1.70	0.74
45:BT:23:ARG:HB2	45:BT:24:PRO:HD2	1.69	0.74
1:CA:424:G:H2'	1:CA:425:G:H8	1.51	0.74
6:CF:49:ALA:HB2	18:CR:78:LEU:O	1.87	0.74
19:CS:6:LYS:HG2	19:CS:7:LYS:HD3	1.70	0.74
31:DA:776:G:H4'	31:DA:777:A:O5'	1.86	0.74
31:DA:1381:G:H2'	31:DA:1382:G:H5'	1.70	0.74
31:DA:1490:A:C2	33:DD:75:ILE:HD13	2.23	0.74
31:DA:1945:G:H2'	31:DA:1946:U:H5'	1.67	0.74
31:DA:2387:U:H5''	31:DA:2388:A:OP2	1.87	0.74
33:DD:30:GLU:HG3	33:DD:63:ARG:HE	1.52	0.74
44:DS:59:LYS:HB2	44:DS:65:VAL:CG2	2.18	0.74
1:AA:949:A:H1'	1:AA:1364:U:H3	1.53	0.74
1:AA:1064:G:H5'	1:AA:1066:C:H1'	1.69	0.74
4:AD:62:GLN:HA	4:AD:62:GLN:HE21	1.53	0.74
30:B8:32:LEU:CG	30:B8:35:GLN:H	2.01	0.74
31:BA:330:A:H2	31:BA:1210:A:C2'	2.01	0.74
31:BA:910:A:H62	42:BQ:12:GLN:HA	1.52	0.74
31:BA:1512:U:H2'	31:BA:1512:U:O2	1.86	0.74
31:BA:2196:C:O2'	31:BA:2197:U:H5'	1.86	0.74
31:BA:2305:A:H5''	36:BG:134:GLY:HA3	1.70	0.74
31:BA:2324:C:H5''	31:BA:2325:G:C5'	2.17	0.74
32:BB:27:C:H2'	32:BB:27:C:O2	1.86	0.74
1:CA:946:A:H2'	1:CA:947:G:C8	2.21	0.74
22:D0:68:GLU:HB2	22:D0:80:HIS:HB2	1.68	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:8:SER:N	23:D1:46:LEU:HD11	2.02	0.74
23:D1:37:ILE:HG21	31:DA:2080:G:OP1	1.88	0.74
31:DA:443:A:H1'	31:DA:1201:C:O4'	1.88	0.74
31:DA:2470:G:C6	31:DA:2471:C:H5	2.05	0.74
31:DA:2683:C:O2	40:DO:70:LYS:HE2	1.87	0.74
48:DW:12:ILE:HG13	48:DW:42:ARG:HH11	1.51	0.74
50:DY:14:LEU:HG	50:DY:15:VAL:N	2.03	0.74
51:DZ:15:PRO:O	51:DZ:19:ARG:HD2	1.88	0.74
1:AA:431:A:H2'	1:AA:432:A:O4'	1.86	0.73
1:AA:659:U:C2'	1:AA:660:G:H5'	2.18	0.73
31:BA:285:C:C2'	31:BA:286:C:H5''	2.17	0.73
31:BA:370:G:H5''	31:BA:423:A:N6	2.03	0.73
1:CA:113:G:H2'	1:CA:114:U:C6	2.22	0.73
32:DB:20:C:H2'	32:DB:21:G:H5''	1.70	0.73
36:DG:86:MET:HB2	36:DG:87:PRO:CD	2.18	0.73
50:DY:44:ILE:HG22	50:DY:45:VAL:H	1.53	0.73
1:AA:9:G:H2'	1:AA:10:A:C8	2.24	0.73
31:BA:1030:G:OP2	42:BQ:128:LYS:HE2	1.87	0.73
31:BA:1316:U:O2'	31:BA:1317:A:H5'	1.88	0.73
31:BA:1742:G:N7	31:BA:1743:C:C2	2.55	0.73
33:BD:30:GLU:HG3	33:BD:63:ARG:CZ	2.18	0.73
40:BO:48:PRO:HB2	40:BO:49:ARG:HD3	1.70	0.73
41:BP:62:LEU:H	41:BP:62:LEU:CD1	2.01	0.73
42:BQ:27:VAL:HA	42:BQ:105:GLU:OE1	1.87	0.73
50:BY:95:LYS:CE	50:BY:101:LYS:H	2.00	0.73
1:CA:1392:G:O2'	1:CA:1393:U:H5'	1.87	0.73
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.88	0.73
2:CB:93:VAL:HG11	2:CB:97:TRP:CD1	2.23	0.73
18:CR:74:ARG:HE	18:CR:81:PHE:HA	1.53	0.73
22:D0:72:ARG:HB2	22:D0:75:LEU:HB2	1.69	0.73
23:D1:85:LEU:HB3	23:D1:87:PRO:CG	2.18	0.73
31:DA:94:C:H5'	31:DA:94(A):G:OP2	1.87	0.73
31:DA:234:C:H2'	31:DA:235:U:H6	1.52	0.73
31:DA:2012:G:H4'	48:DW:96:ILE:CD1	2.18	0.73
33:DD:94:LEU:HB2	33:DD:104:TYR:CD2	2.23	0.73
44:DS:41:ASP:OD2	44:DS:44:LYS:HB2	1.87	0.73
44:DS:93:LYS:HG3	44:DS:93:LYS:O	1.88	0.73
20:AT:82:SER:O	20:AT:86:ARG:HB2	1.88	0.73
22:B0:74:ARG:NH2	32:BB:13:A:H8	1.86	0.73
24:B2:55:ARG:HH22	49:BX:3:THR:CG2	2.00	0.73
31:BA:271(L):U:H4'	31:BA:271(M):G:C5	2.23	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:743:G:C2'	31:BA:744:G:H5'	2.18	0.73
31:BA:1396:U:H2'	31:BA:1396:U:O2	1.86	0.73
31:BA:1899:G:H21	31:BA:1902:C:H5	1.32	0.73
31:BA:2807:G:H22	31:BA:2892:A:N6	1.86	0.73
31:BA:2875:C:O2'	45:BT:5:ALA:HB3	1.88	0.73
31:BA:2884:U:C6	31:BA:2885:C:C6	2.76	0.73
40:BO:13:ASN:HD21	40:BO:97:ARG:H	1.32	0.73
41:BP:144:GLU:N	41:BP:145:PRO:HD3	2.02	0.73
43:BR:72:ASP:HB3	43:BR:75:LEU:HB2	1.70	0.73
47:BV:18:LEU:HD22	47:BV:19:LYS:HA	1.69	0.73
50:BY:96:ILE:HD12	50:BY:99:CYS:SG	2.28	0.73
2:CB:130:ARG:HE	2:CB:130:ARG:HA	1.52	0.73
5:CE:33:VAL:HG11	5:CE:109:ILE:HA	1.69	0.73
31:DA:378:C:C2'	31:DA:379:G:H5'	2.18	0.73
31:DA:378:C:H2'	31:DA:379:G:H5'	1.69	0.73
31:DA:518:G:H2'	31:DA:519:U:C6	2.24	0.73
31:DA:528:A:N1	31:DA:2043:C:O5'	2.21	0.73
31:DA:870:A:C5'	42:DQ:7:MET:HB2	2.18	0.73
31:DA:1771:C:H1'	31:DA:1786:A:C8	2.24	0.73
31:DA:2314:C:H2'	31:DA:2315:G:C8	2.23	0.73
31:DA:2521:C:H2'	31:DA:2521:C:O2	1.88	0.73
31:DA:2886:G:C4	31:DA:2887:U:C5	2.76	0.73
33:DD:182:LEU:O	33:DD:271:ILE:HD12	1.88	0.73
33:DD:246:PRO:HB2	33:DD:255:LYS:HG3	1.70	0.73
45:DT:30:VAL:HG21	45:DT:83:ILE:CG1	2.17	0.73
1:AA:946:A:H2'	1:AA:947:G:C8	2.23	0.73
3:AC:70:VAL:HG21	3:AC:76:VAL:HG11	1.70	0.73
8:AH:10:LEU:HD13	8:AH:83:ILE:HD11	1.70	0.73
23:B1:94:LEU:O	23:B1:95:LEU:HG	1.87	0.73
28:B6:48:VAL:O	28:B6:49:HIS:HB2	1.88	0.73
31:BA:870:A:H5''	42:BQ:7:MET:HB2	1.69	0.73
31:BA:1025:G:OP1	31:BA:1025:G:H8	1.70	0.73
31:BA:2471:C:O2	31:BA:2471:C:H2'	1.88	0.73
44:BS:30:ARG:HD2	44:BS:35:ILE:HB	1.68	0.73
1:CA:186:C:O2'	1:CA:187:C:H5'	1.87	0.73
1:CA:328:C:H2'	1:CA:328:C:O2	1.87	0.73
1:CA:499:A:H4'	1:CA:500:G:OP1	1.87	0.73
7:CG:79:ARG:NE	7:CG:84:ASN:HD21	1.85	0.73
27:D5:50:GLY:O	27:D5:51:TYR:HD1	1.71	0.73
31:DA:197:A:H8	31:DA:197:A:H5'	1.53	0.73
31:DA:271(E):U:H2'	31:DA:271(F):C:C6	2.23	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2396:G:O2'	31:DA:2397:G:H5'	1.89	0.73
34:DE:128:SER:OG	34:DE:129:HIS:N	2.20	0.73
38:DI:124:GLY:H	38:DI:142:VAL:HG23	1.53	0.73
1:AA:537:G:H2'	1:AA:538:G:H8	1.53	0.73
13:AM:66:LEU:H	13:AM:66:LEU:HD12	1.52	0.73
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.69	0.73
22:B0:18:ALA:HB1	31:BA:2271:G:OP1	1.88	0.73
28:B6:9:LEU:HD22	28:B6:10:LEU:H	1.53	0.73
30:B8:6:THR:HG22	30:B8:63:PRO:HD3	1.69	0.73
31:BA:2312:U:C2'	31:BA:2313:C:H5'	2.19	0.73
33:BD:147:LEU:HD13	33:BD:155:LEU:CD1	2.18	0.73
42:BQ:81:VAL:C	42:BQ:82:ARG:HG2	2.05	0.73
50:BY:45:VAL:HG13	50:BY:62:GLU:OE2	1.88	0.73
4:CD:33:MET:CE	4:CD:37:PRO:HA	2.19	0.73
31:DA:71:A:OP2	31:DA:71:A:H3'	1.87	0.73
31:DA:1648:C:H2'	31:DA:1649:G:O5'	1.88	0.73
40:DO:13:ASN:HD21	40:DO:97:ARG:H	1.35	0.73
41:DP:144:GLU:N	41:DP:145:PRO:HD3	2.04	0.73
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	1.88	0.73
10:AJ:63:PHE:HB3	14:AN:57:ARG:O	1.89	0.73
30:B8:52:LYS:H	30:B8:53:PRO:HD2	1.50	0.73
31:BA:870:A:C5'	42:BQ:7:MET:HB2	2.18	0.73
31:BA:2199:A:OP2	31:BA:2200:C:C5	2.42	0.73
37:BH:123:PHE:CZ	37:BH:148:ILE:HD11	2.22	0.73
39:BN:47:ALA:HB2	39:BN:112:LEU:HD11	1.67	0.73
50:BY:8:LYS:HB2	50:BY:28:LYS:NZ	2.04	0.73
1:CA:377:G:O2'	1:CA:378:G:H5'	1.89	0.73
1:CA:921:U:O2'	1:CA:922:G:C1'	2.36	0.73
4:CD:33:MET:HE2	4:CD:37:PRO:HA	1.70	0.73
10:CJ:82:ILE:O	10:CJ:86:MET:HB3	1.88	0.73
31:DA:870:A:H5''	42:DQ:7:MET:HB2	1.70	0.73
31:DA:2199:A:OP2	31:DA:2200:C:H5	1.70	0.73
31:DA:2492:U:H2'	31:DA:2493:U:H6	1.52	0.73
33:DD:228:PRO:HD3	33:DD:235:GLY:HA3	1.71	0.73
37:DH:41:MET:SD	37:DH:55:PRO:HB3	2.28	0.73
40:DO:122:LEU:HD13	45:DT:72:VAL:HG11	1.70	0.73
1:AA:21:G:H2'	1:AA:22:G:C8	2.24	0.73
1:AA:186:C:O2'	1:AA:187:C:H5'	1.89	0.73
1:AA:940:C:OP1	7:AG:102:ARG:HD3	1.89	0.73
15:AO:17:ARG:HG3	15:AO:17:ARG:HH11	1.53	0.73
22:B0:74:ARG:NH2	32:BB:13:A:H5'	2.04	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:85:LEU:HB3	23:B1:87:PRO:CG	2.19	0.73
30:B8:32:LEU:HG	30:B8:34:TRP:HB3	1.70	0.73
30:B8:47:LYS:HE2	30:B8:49:VAL:HG13	1.69	0.73
31:BA:807:U:H2'	31:BA:808:G:O5'	1.89	0.73
31:BA:1288:U:C2	31:BA:1327:C:O2	2.42	0.73
31:BA:1790:C:H5''	31:BA:1791:A:OP1	1.88	0.73
36:BG:85:GLY:O	36:BG:87:PRO:HD2	1.87	0.73
43:BR:71:GLN:HA	43:BR:71:GLN:NE2	2.04	0.73
44:BS:29:PHE:H	44:BS:89:ARG:HD2	1.52	0.73
44:BS:99:LYS:C	44:BS:106:ARG:HH12	1.92	0.73
50:BY:75:ILE:CD1	50:BY:79:CYS:HA	2.17	0.73
1:CA:774:G:C2'	1:CA:775:G:H5'	2.19	0.73
1:CA:922:G:H1'	5:CE:19:MET:H	1.52	0.73
24:D2:26:ARG:NE	24:D2:29:LYS:HE2	2.04	0.73
31:DA:1291:C:O2'	31:DA:1292:U:H5'	1.88	0.73
31:DA:2273:A:O2'	31:DA:2274:A:H5'	1.88	0.73
32:DB:47:C:O2'	44:DS:93:LYS:HG2	1.88	0.73
44:DS:71:ARG:HG2	44:DS:101:LEU:HG	1.70	0.73
45:DT:88:ILE:HG22	45:DT:89:VAL:HG23	1.70	0.73
46:DU:31:SER:O	46:DU:33:ARG:N	2.21	0.73
46:DU:90:VAL:HG12	46:DU:91:ASP:H	1.52	0.73
47:DV:13:ARG:HH12	47:DV:15:GLU:HG2	1.54	0.73
47:DV:79:VAL:O	47:DV:80:GLN:CB	2.34	0.73
49:DX:40:LYS:HG3	49:DX:41:ASN:N	2.02	0.73
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.71	0.73
31:BA:34:C:C2'	31:BA:35:G:OP1	2.37	0.73
31:BA:2496:C:OP1	42:BQ:81:VAL:HG12	1.89	0.73
45:BT:50:ILE:CD1	45:BT:102:ILE:HD11	2.13	0.73
46:BU:90:VAL:HG13	47:BV:39:LEU:HG	1.70	0.73
48:BW:59:VAL:CG1	48:BW:60:ASN:N	2.46	0.73
1:CA:102:G:C4	1:CA:103:C:C5	2.77	0.73
1:CA:457:C:H2'	1:CA:458:C:H6	1.54	0.73
1:CA:922:G:H1'	5:CE:19:MET:CA	2.18	0.73
3:CC:117:ALA:HB2	3:CC:200:ALA:HB2	1.69	0.73
22:D0:42:GLY:HA2	31:DA:2330:G:H21	1.52	0.73
31:DA:1517:G:H5''	31:DA:1517:G:H8	1.53	0.73
31:DA:1688:U:O2	31:DA:1700:A:H5''	1.88	0.73
31:DA:1719:G:H2'	31:DA:1720:U:H5'	1.71	0.73
31:DA:2307:G:H21	31:DA:2308:G:H5'	1.54	0.73
31:DA:2659:G:C2'	31:DA:2663:G:H22	2.02	0.73
31:DA:2845:G:O2'	31:DA:2846:G:H5'	1.87	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:27:C:H2'	32:DB:27:C:O2	1.89	0.73
40:DO:63:VAL:HG11	40:DO:85:VAL:HG23	1.71	0.73
41:DP:40:SER:O	41:DP:41:ARG:HD2	1.89	0.73
45:DT:30:VAL:HG21	45:DT:83:ILE:HG12	1.69	0.73
47:DV:72:VAL:CA	47:DV:88:ARG:HH22	2.00	0.73
49:DX:65:ARG:HA	49:DX:65:ARG:NE	2.02	0.73
50:DY:39:VAL:HG12	50:DY:40:GLU:H	1.54	0.73
1:AA:185:A:H2'	1:AA:186:C:H6	1.54	0.73
1:AA:955:U:H1'	1:AA:1227:A:N6	2.04	0.73
3:AC:117:ALA:HB2	3:AC:200:ALA:HB2	1.71	0.73
27:B5:51:TYR:CD2	27:B5:52:TYR:CZ	2.77	0.73
31:BA:1029:A:OP1	42:BQ:128:LYS:HE3	1.89	0.73
31:BA:2557:G:O2'	31:BA:2558:C:H5'	1.88	0.73
31:BA:2652:C:O2'	31:BA:2653:U:H5'	1.89	0.73
31:BA:2853:C:H2'	31:BA:2854:G:H8	1.54	0.73
40:BO:1:MET:HE3	40:BO:67:LYS:HG2	1.71	0.73
1:CA:21:G:H2'	1:CA:22:G:C8	2.23	0.73
1:CA:394:G:H2'	1:CA:395:C:H6	1.52	0.73
3:CC:134:ILE:HG23	3:CC:151:VAL:HB	1.70	0.73
31:DA:208:C:H2'	31:DA:209:C:H6	1.54	0.73
31:DA:285:C:C2'	31:DA:286:C:H5''	2.18	0.73
37:DH:141:VAL:HG12	37:DH:142:GLY:N	2.04	0.73
41:DP:114:ILE:HG12	41:DP:130:PHE:CD1	2.23	0.73
44:DS:37:ALA:HB3	44:DS:51:ALA:HB3	1.70	0.73
45:DT:35:LYS:O	45:DT:37:GLY:N	2.22	0.73
1:AA:114:U:H2'	1:AA:115:G:C8	2.24	0.73
1:AA:358:U:H2'	1:AA:359:U:C6	2.24	0.73
1:AA:783:C:C2'	1:AA:784:C:H5'	2.18	0.73
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	1.97	0.73
31:BA:1406:U:H2'	31:BA:1407:C:H6	1.53	0.73
31:BA:1662:C:O2'	31:BA:1663:C:H5'	1.89	0.73
31:BA:1963:U:H4'	31:BA:1964:G:OP1	1.88	0.73
31:BA:2552:U:H2'	31:BA:2554:U:OP2	1.89	0.73
31:BA:2567:G:H2'	31:BA:2568:C:H6	1.50	0.73
32:BB:65:C:H42	32:BB:109:C:H2'	1.52	0.73
33:BD:54:ARG:O	33:BD:218:ARG:HG3	1.88	0.73
33:BD:182:LEU:O	33:BD:271:ILE:HD12	1.89	0.73
34:BE:4:ILE:HD13	34:BE:28:ALA:HB1	1.71	0.73
36:BG:86:MET:HB2	36:BG:87:PRO:CD	2.18	0.73
1:CA:262:A:H2'	1:CA:263:A:C8	2.24	0.73
31:DA:271(L):U:H4'	31:DA:271(M):G:C5	2.24	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:814:C:O2'	31:DA:815:C:H5'	1.87	0.73
31:DA:996:A:H4'	46:DU:92:ARG:CZ	2.19	0.73
31:DA:2287:A:C2	31:DA:2289:G:C8	2.76	0.73
31:DA:2342:C:H6	31:DA:2342:C:OP2	1.71	0.73
43:DR:10:LEU:HB3	43:DR:17:ARG:NE	2.04	0.73
1:AA:56:U:H2'	1:AA:57:G:H8	1.51	0.72
1:AA:109:A:H2'	1:AA:326:G:N2	2.04	0.72
1:AA:1030(D):A:H62	1:AA:1031:G:H21	1.36	0.72
10:AJ:49:VAL:HG13	14:AN:41:ARG:HB2	1.70	0.72
23:B1:37:ILE:HD11	31:BA:2079:U:H4'	1.71	0.72
27:B5:50:GLY:O	27:B5:51:TYR:HD1	1.72	0.72
31:BA:1515:G:O2'	31:BA:1516:C:H5'	1.89	0.72
31:BA:1568:G:P	33:BD:63:ARG:HH22	2.12	0.72
31:BA:2681:C:H5	31:BA:2725:A:N6	1.82	0.72
41:BP:107:LYS:C	41:BP:109:GLY:H	1.93	0.72
47:BV:80:GLN:O	47:BV:80:GLN:OE1	2.07	0.72
1:CA:949:A:H1'	1:CA:1364:U:H3	1.54	0.72
1:CA:950:U:H3'	13:CM:102:ARG:HH12	1.53	0.72
1:CA:1291:G:H4'	9:CI:38:GLN:O	1.89	0.72
13:CM:90:LEU:HA	13:CM:93:ARG:HB2	1.71	0.72
31:DA:125:G:H4'	31:DA:126:A:OP2	1.89	0.72
31:DA:826:U:OP1	31:DA:2428:G:H3'	1.88	0.72
31:DA:1204:A:H2	31:DA:1241:A:N1	1.86	0.72
1:AA:524:G:H2'	1:AA:525:C:C6	2.24	0.72
1:AA:541:G:H2'	1:AA:542:G:H8	1.52	0.72
1:AA:1495:U:O2	31:BA:1912:A:H2	1.71	0.72
2:AB:130:ARG:HA	2:AB:130:ARG:HE	1.54	0.72
2:AB:180:LEU:O	2:AB:181:PHE:HB2	1.88	0.72
23:B1:10:LYS:HB2	23:B1:14:VAL:H	1.51	0.72
24:B2:56:GLN:CA	24:B2:56:GLN:NE2	2.46	0.72
31:BA:1381:G:H2'	31:BA:1382:G:H5'	1.71	0.72
31:BA:2808:U:C2'	31:BA:2809:A:H5'	2.19	0.72
55:BA:3362:TEL:O48	55:BA:3362:TEL:H572	1.89	0.72
32:BB:80:U:H2'	32:BB:81:G:H21	1.54	0.72
33:BD:30:GLU:HG3	33:BD:63:ARG:HE	1.53	0.72
49:BX:33:LYS:C	49:BX:35:THR:N	2.40	0.72
3:CC:130:VAL:O	3:CC:134:ILE:HG12	1.89	0.72
13:CM:52:GLU:O	13:CM:56:LEU:HB2	1.89	0.72
22:D0:74:ARG:NH2	32:DB:13:A:H8	1.87	0.72
30:D8:4:MET:HE1	31:DA:593:G:O4'	1.89	0.72
31:DA:2843:G:H2'	31:DA:2844:G:H8	1.54	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:20:LEU:HD22	35:DF:203:GLN:NE2	2.04	0.72
39:DN:131:GLN:NE2	39:DN:134:ARG:HA	2.04	0.72
1:AA:179:A:H2'	1:AA:180:U:H6	1.53	0.72
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.71	0.72
22:B0:40:GLN:NE2	22:B0:43:THR:HA	2.05	0.72
31:BA:288:C:N4	31:BA:353:G:H1	1.86	0.72
31:BA:2314:C:H2'	31:BA:2315:G:C8	2.24	0.72
33:BD:144:ALA:HB3	33:BD:192:THR:HG23	1.71	0.72
51:BZ:151:HIS:ND1	51:BZ:151:HIS:N	2.36	0.72
1:CA:179:A:H2'	1:CA:180:U:H6	1.52	0.72
1:CA:541:G:H2'	1:CA:542:G:H8	1.55	0.72
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.54	0.72
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.70	0.72
3:CC:9:GLY:HA2	3:CC:12:LEU:HD23	1.71	0.72
22:D0:74:ARG:NH2	32:DB:13:A:H5'	2.04	0.72
31:DA:695:G:OP1	31:DA:1380:G:H4'	1.89	0.72
31:DA:1210:A:C8	31:DA:1210:A:C5'	2.68	0.72
31:DA:2392:A:H2	31:DA:2424:C:H42	1.34	0.72
40:DO:43:VAL:HG12	40:DO:54:GLU:HA	1.70	0.72
44:DS:99:LYS:C	44:DS:106:ARG:HH12	1.93	0.72
1:AA:552:U:H5'	12:AL:86:ARG:HD2	1.71	0.72
24:B2:14:ARG:NH2	24:B2:15:LYS:HB3	2.04	0.72
24:B2:49:LYS:O	24:B2:51:ARG:O	2.07	0.72
28:B6:51:GLU:HG2	28:B6:52:VAL:N	2.04	0.72
30:B8:39:LYS:HE3	30:B8:39:LYS:O	1.89	0.72
31:BA:27:G:H22	31:BA:512:G:H2'	1.53	0.72
31:BA:892:G:H1	31:BA:894:C:N4	1.87	0.72
31:BA:1434:A:H61	31:BA:1558:A:H62	1.37	0.72
31:BA:2524:G:H8	31:BA:2524:G:H5'	1.54	0.72
31:BA:2829:C:C2'	31:BA:2830:G:H5''	2.18	0.72
36:BG:124:SER:HB2	36:BG:131:TYR:CE1	2.24	0.72
42:BQ:24:GLY:HA3	51:BZ:78:LYS:CD	2.19	0.72
43:BR:10:LEU:HB3	43:BR:17:ARG:NE	2.05	0.72
46:BU:90:VAL:HG22	47:BV:39:LEU:HD11	1.71	0.72
1:CA:114:U:H2'	1:CA:115:G:C8	2.24	0.72
1:CA:673:G:H5''	6:CF:87:ARG:HE	1.55	0.72
11:CK:111:ASP:HA	18:CR:84:LYS:HE2	1.70	0.72
23:D1:87:PRO:HD2	23:D1:88:LYS:H	1.53	0.72
31:DA:370:G:H5''	31:DA:423:A:N6	2.03	0.72
31:DA:1420:U:O2'	31:DA:1421:G:H5'	1.90	0.72
31:DA:1678:G:H8	31:DA:1678:G:O5'	1.72	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:35:LYS:NZ	33:DD:65:ILE:HA	2.04	0.72
33:DD:35:LYS:CD	33:DD:63:ARG:HB3	2.18	0.72
33:DD:92:ILE:HD13	33:DD:104:TYR:CD2	2.24	0.72
49:DX:82:GLN:HG3	49:DX:85:PRO:CD	2.20	0.72
51:DZ:40:ASP:HB3	51:DZ:43:GLU:HB2	1.69	0.72
4:AD:33:MET:CE	4:AD:37:PRO:HA	2.20	0.72
31:BA:71:A:C2	49:BX:31:HIS:CE1	2.77	0.72
31:BA:911:A:C5	42:BQ:9:TYR:HE2	2.07	0.72
31:BA:1045:A:H1'	31:BA:1047:G:C8	2.24	0.72
31:BA:1163:G:O2'	31:BA:1164:G:H5'	1.89	0.72
41:BP:114:ILE:HG12	41:BP:130:PHE:CD1	2.24	0.72
1:CA:63:C:H42	1:CA:104:G:H1	1.36	0.72
1:CA:437:U:C2'	1:CA:438:G:H5'	2.18	0.72
1:CA:1088:G:H2'	1:CA:1089:G:C8	2.24	0.72
13:CM:66:LEU:H	13:CM:66:LEU:HD12	1.52	0.72
22:D0:40:GLN:NE2	22:D0:43:THR:HA	2.04	0.72
24:D2:33:MET:HG2	49:DX:11:PRO:CD	2.20	0.72
30:D8:5:LYS:HE2	31:DA:254:G:N7	2.05	0.72
31:DA:309:G:H5''	50:DY:18:GLY:HA3	1.71	0.72
31:DA:528:A:H2	31:DA:2043:C:H5'	1.54	0.72
31:DA:747:U:O2	31:DA:2014:A:H1'	1.89	0.72
31:DA:796:C:H2'	31:DA:797:C:H6	1.52	0.72
31:DA:848:G:H2'	31:DA:849:A:H8	1.54	0.72
31:DA:1025:G:H8	31:DA:1025:G:OP1	1.73	0.72
31:DA:1722:A:O2'	31:DA:1739:U:H5'	1.89	0.72
31:DA:2252:G:H2'	31:DA:2253:G:C8	2.25	0.72
32:DB:68:C:O2	32:DB:68:C:H2'	1.90	0.72
45:DT:32:TYR:CD2	45:DT:32:TYR:N	2.56	0.72
1:AA:457:C:H2'	1:AA:458:C:H6	1.55	0.72
8:AH:97:VAL:HA	8:AH:100:ILE:HD11	1.71	0.72
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.72	0.72
22:B0:28:GLY:HA2	22:B0:66:VAL:CG1	2.19	0.72
31:BA:2022:U:O2'	31:BA:2617:C:H5'	1.90	0.72
36:BG:7:LEU:HB2	36:BG:104:GLU:OE2	1.89	0.72
1:CA:431:A:H2'	1:CA:432:A:O4'	1.88	0.72
1:CA:1157:A:H4'	1:CA:1158:C:O5'	1.88	0.72
1:CA:1158:C:H5''	2:CB:133:LYS:HE2	1.70	0.72
1:CA:1347:G:C8	9:CI:107:ARG:HB3	2.25	0.72
22:D0:26:TYR:CE2	31:DA:857:C:H1'	2.25	0.72
23:D1:85:LEU:HB3	23:D1:87:PRO:CD	2.20	0.72
31:DA:769:G:O2'	31:DA:770:G:H5'	1.89	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1280:G:H2'	31:DA:1281:G:H5''	1.71	0.72
31:DA:1722:A:H2	31:DA:1740:G:C5'	1.98	0.72
31:DA:2312:U:C2'	31:DA:2313:C:H5'	2.20	0.72
55:DA:3320:TEL:O48	55:DA:3320:TEL:H572	1.89	0.72
33:DD:241:PRO:C	33:DD:242:ARG:HD2	2.10	0.72
36:DG:63:ILE:HG22	36:DG:143:GLU:HG3	1.71	0.72
41:DP:85:LEU:HA	41:DP:88:LEU:HB2	1.71	0.72
1:AA:509:A:H4'	1:AA:510:A:OP1	1.87	0.72
5:AE:50:GLU:OE2	5:AE:51:VAL:HG23	1.89	0.72
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	1.88	0.72
12:AL:8:ASN:HD22	17:AQ:34:LYS:HE2	1.55	0.72
31:BA:69:C:O2	31:BA:69:C:C2'	2.38	0.72
31:BA:481:G:H4'	31:BA:481:G:OP1	1.90	0.72
31:BA:1420:U:O2'	31:BA:1421:G:H5'	1.90	0.72
31:BA:2012:G:H4'	48:BW:96:ILE:CD1	2.19	0.72
31:BA:2646:C:H6	31:BA:2646:C:O5'	1.73	0.72
37:BH:20:ALA:HB1	37:BH:21:PRO:CD	2.19	0.72
1:CA:250:A:H4'	1:CA:251:G:O5'	1.89	0.72
1:CA:667:G:N2	1:CA:740:U:H1'	2.04	0.72
3:CC:70:VAL:HG21	3:CC:76:VAL:HG11	1.71	0.72
29:D7:8:ASN:HD22	29:D7:8:ASN:C	1.93	0.72
30:D8:39:LYS:HE3	30:D8:39:LYS:O	1.89	0.72
31:DA:579:G:H2'	31:DA:580:C:H6	1.52	0.72
31:DA:1029:A:OP1	42:DQ:128:LYS:HE3	1.89	0.72
33:DD:8:PRO:HB3	33:DD:14:ARG:HB2	1.72	0.72
39:DN:77:GLY:O	39:DN:78:TYR:HB3	1.89	0.72
50:DY:95:LYS:CE	50:DY:101:LYS:H	2.02	0.72
51:DZ:10:ARG:NH2	51:DZ:26:GLY:H	1.88	0.72
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.55	0.72
2:AB:93:VAL:HG11	2:AB:97:TRP:CD1	2.24	0.72
6:AF:39:LYS:HB3	6:AF:62:TRP:HZ3	1.55	0.72
23:B1:85:LEU:HB3	23:B1:87:PRO:CD	2.20	0.72
23:B1:87:PRO:CD	23:B1:88:LYS:H	2.03	0.72
31:BA:1425:G:H2'	31:BA:1426:G:O4'	1.90	0.72
31:BA:1503:U:H2'	31:BA:1504:C:C6	2.24	0.72
31:BA:1688:U:O2	31:BA:1700:A:H5''	1.89	0.72
31:BA:1722:A:O2'	31:BA:1739:U:H5'	1.90	0.72
31:BA:1771:C:C1'	31:BA:1786:A:H8	2.02	0.72
31:BA:2443:C:O2'	31:BA:2444:G:H5'	1.89	0.72
33:BD:35:LYS:HZ1	33:BD:104:TYR:HB2	1.55	0.72
41:BP:101:VAL:HG12	41:BP:106:LEU:HD23	1.72	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:151:HIS:HB3	51:BZ:170:THR:CA	2.19	0.72
1:CA:166:G:O2'	1:CA:167:G:H5'	1.89	0.72
1:CA:575:G:H4'	1:CA:576:G:OP1	1.88	0.72
18:CR:31:LEU:HD12	18:CR:65:ILE:HD11	1.71	0.72
31:DA:755:C:H2'	31:DA:756:C:C6	2.25	0.72
31:DA:1598:C:H5'	49:DX:37:THR:HB	1.69	0.72
31:DA:1956:U:C2'	31:DA:1957:C:H5'	2.19	0.72
31:DA:2093:G:O5'	38:DI:24:GLY:HA3	1.90	0.72
31:DA:2360:A:O2'	31:DA:2361:A:P	2.47	0.72
36:DG:34:LEU:HD13	36:DG:35:GLU:N	2.05	0.72
37:DH:91:GLY:O	37:DH:92:ILE:HD13	1.90	0.72
40:DO:48:PRO:HB2	40:DO:49:ARG:HD3	1.72	0.72
25:B3:19:GLN:HE22	25:B3:52:HIS:CE1	2.08	0.72
31:BA:875:G:H4'	51:BZ:170:THR:HG21	1.69	0.72
31:BA:1578:U:O2	31:BA:1578:U:H2'	1.88	0.72
33:BD:17:THR:HG23	33:BD:205:VAL:HB	1.72	0.72
35:BF:139:PHE:HB2	35:BF:166:ALA:HB1	1.71	0.72
36:BG:7:LEU:HB3	36:BG:100:TRP:HE3	1.54	0.72
36:BG:34:LEU:HD13	36:BG:35:GLU:N	2.05	0.72
36:BG:64:THR:HG23	36:BG:65:GLY:H	1.53	0.72
36:BG:172:LEU:HG	36:BG:173:LEU:HD23	1.70	0.72
1:CA:358:U:C4	1:CA:359:U:C4	2.77	0.72
1:CA:552:U:H5'	12:CL:86:ARG:HD2	1.70	0.72
5:CE:55:VAL:O	5:CE:58:ALA:HB3	1.89	0.72
24:D2:14:ARG:NH2	24:D2:15:LYS:HB3	2.05	0.72
25:D3:19:GLN:HE22	25:D3:52:HIS:CE1	2.06	0.72
27:D5:40:LYS:HE2	27:D5:46:CYS:HB3	1.72	0.72
30:D8:35:GLN:HA	31:DA:2420:C:OP2	1.90	0.72
31:DA:128:C:H2'	31:DA:129:C:H6	1.53	0.72
31:DA:574:C:N3	34:DE:145:LYS:HE2	2.05	0.72
31:DA:833:U:H2'	31:DA:834:C:H6	1.54	0.72
39:DN:15:LEU:HD21	39:DN:55:VAL:CG2	2.20	0.72
39:DN:78:TYR:HD1	39:DN:79:PRO:CD	2.03	0.72
1:AA:472:A:H4'	16:AP:82:GLN:NE2	2.04	0.72
1:AA:922:G:C6	1:AA:923:A:C6	2.78	0.72
3:AC:62:ASP:O	3:AC:97:LYS:HB3	1.90	0.72
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.72	0.72
23:B1:10:LYS:HG2	23:B1:11:ARG:N	2.05	0.72
30:B8:35:GLN:HA	31:BA:2420:C:P	2.29	0.72
31:BA:34:C:H6	31:BA:34:C:H3'	1.53	0.72
31:BA:587:C:C4'	31:BA:588:U:OP2	2.38	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:667:U:C2'	31:BA:668:G:H5'	2.20	0.72
31:BA:2287:A:N3	31:BA:2289:G:C8	2.58	0.72
31:BA:2463:C:H2'	31:BA:2464:C:H5'	1.71	0.72
39:BN:66:LYS:HB3	39:BN:70:LYS:HB2	1.72	0.72
39:BN:78:TYR:CE1	39:BN:79:PRO:HB3	2.24	0.72
40:BO:3:GLN:HB2	40:BO:4:PRO:HD2	1.72	0.72
49:BX:50:LYS:HB3	49:BX:82:GLN:HB3	1.72	0.72
5:CE:6:PHE:HB2	5:CE:34:VAL:CG1	2.19	0.72
31:DA:864:G:C6	31:DA:865:C:N4	2.58	0.72
31:DA:1418:G:OP1	31:DA:1588:C:O2'	2.07	0.72
31:DA:2291:U:H4'	31:DA:2380:C:O2	1.90	0.72
33:DD:91:ARG:HG2	33:DD:91:ARG:NH1	2.04	0.72
47:DV:60:GLU:OE1	47:DV:101:GLY:HA2	1.90	0.72
50:DY:81:LYS:CG	50:DY:96:ILE:HG22	2.19	0.72
1:AA:562:C:N4	1:AA:884:U:C6	2.58	0.71
3:AC:9:GLY:HA2	3:AC:12:LEU:HD23	1.72	0.71
4:AD:31:CYS:C	4:AD:33:MET:H	1.92	0.71
31:BA:380:U:H2'	31:BA:381:G:H8	1.55	0.71
31:BA:1278:A:O2'	43:BR:34:ILE:HD11	1.89	0.71
31:BA:2099:U:H2'	31:BA:2099:U:O2	1.89	0.71
32:BB:67:G:C4	32:BB:68:C:C5	2.78	0.71
39:BN:57:ALA:O	39:BN:58:ASP:O	2.07	0.71
41:BP:85:LEU:HD22	41:BP:115:LEU:O	1.89	0.71
48:BW:17:VAL:O	48:BW:20:VAL:HG22	1.90	0.71
51:BZ:117:LEU:HA	51:BZ:174:VAL:HA	1.72	0.71
51:BZ:149:SER:HB2	51:BZ:172:ALA:O	1.89	0.71
30:D8:58:ILE:O	30:D8:61:LEU:HG	1.88	0.71
31:DA:1317:A:H2'	31:DA:1318:C:H6	1.55	0.71
31:DA:2443:C:O2'	31:DA:2444:G:H5'	1.88	0.71
31:DA:2463:C:O2'	31:DA:2464:C:H5'	1.88	0.71
39:DN:51:PHE:CE2	39:DN:119:ARG:HD3	2.25	0.71
45:DT:99:LEU:HB2	45:DT:101:PHE:CE1	2.25	0.71
47:DV:90:PRO:CD	47:DV:91:TYR:H	2.03	0.71
1:AA:950:U:H3'	13:AM:102:ARG:HH12	1.52	0.71
31:BA:767:U:O2'	31:BA:768:G:H5'	1.90	0.71
31:BA:896:A:C2	31:BA:898:C:H5''	2.24	0.71
31:BA:1721:G:C2	31:BA:1739:U:OP2	2.42	0.71
1:CA:153:C:H42	1:CA:168:G:H1	1.38	0.71
15:CO:33:THR:HG21	15:CO:85:LEU:HD22	1.72	0.71
23:D1:87:PRO:HB2	23:D1:91:LYS:NZ	2.05	0.71
31:DA:607:U:H3	31:DA:621:A:H2	1.38	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:861:A:C2	31:DA:917:A:C4	2.78	0.71
33:DD:97:TYR:HB2	33:DD:101:GLU:O	1.90	0.71
33:DD:147:LEU:HD13	33:DD:155:LEU:CD1	2.19	0.71
34:DE:201:THR:HG22	34:DE:202:LYS:N	2.04	0.71
41:DP:97:PRO:O	41:DP:98:GLU:HB3	1.89	0.71
46:DU:102:GLU:HG3	47:DV:2:PHE:CE2	2.23	0.71
48:DW:75:TYR:CD1	48:DW:104:THR:HB	2.25	0.71
1:AA:437:U:C2'	1:AA:438:G:H5'	2.20	0.71
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.56	0.71
4:AD:148:VAL:HG12	4:AD:149:ALA:N	2.06	0.71
15:AO:23:GLY:O	15:AO:24:SER:HB3	1.90	0.71
23:B1:41:ARG:NH2	31:BA:205:G:O6	2.23	0.71
31:BA:1662:C:H1'	31:BA:2687:U:H5''	1.71	0.71
32:BB:38:C:H4'	44:BS:95:HIS:CE1	2.25	0.71
46:BU:92:ARG:CZ	47:BV:11:GLN:H	2.03	0.71
47:BV:66:ARG:HD2	47:BV:67:GLY:N	2.04	0.71
51:BZ:108:PRO:HB3	51:BZ:141:VAL:HG22	1.71	0.71
1:CA:109:A:H2'	1:CA:326:G:N2	2.05	0.71
1:CA:819:A:H4'	1:CA:820:U:OP2	1.91	0.71
1:CA:923:A:N3	1:CA:923:A:O2'	2.20	0.71
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.72	0.71
11:CK:83:ILE:HA	11:CK:109:VAL:O	1.90	0.71
14:CN:24:CYS:HB3	14:CN:27:CYS:O	1.91	0.71
28:D6:51:GLU:CG	28:D6:52:VAL:H	2.02	0.71
31:DA:855:G:C6	31:DA:856:C:N4	2.58	0.71
31:DA:1141:U:P	39:DN:25:ARG:HH12	2.13	0.71
37:DH:123:PHE:CZ	37:DH:148:ILE:HD11	2.24	0.71
44:DS:28:VAL:HG11	44:DS:97:ARG:HH12	1.55	0.71
45:DT:23:ARG:O	45:DT:25:GLY:N	2.23	0.71
1:AA:667:G:N2	1:AA:740:U:H1'	2.05	0.71
1:AA:1091:U:H2'	1:AA:1091:U:O2	1.90	0.71
31:BA:1204:A:H2	31:BA:1241:A:N1	1.88	0.71
31:BA:1598:C:H5'	49:BX:37:THR:HB	1.71	0.71
31:BA:2467:C:H4'	42:BQ:123:HIS:CD2	2.25	0.71
31:BA:2469:A:H2	31:BA:2481:G:H21	1.35	0.71
34:BE:27:LEU:HD22	45:BT:1:MET:CE	2.20	0.71
34:BE:128:SER:OG	34:BE:129:HIS:N	2.21	0.71
35:BF:63:LYS:NZ	35:BF:67:GLN:HB2	2.06	0.71
37:BH:123:PHE:HZ	37:BH:148:ILE:HD11	1.55	0.71
39:BN:25:ARG:HH11	39:BN:25:ARG:CG	2.02	0.71
43:BR:96:ARG:HH21	43:BR:117:VAL:HG23	1.55	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:87:PHE:O	44:BS:88:ASP:HB2	1.90	0.71
46:BU:92:ARG:HB3	47:BV:11:GLN:HE21	1.40	0.71
47:BV:72:VAL:HA	47:BV:88:ARG:NH1	2.04	0.71
49:BX:35:THR:O	49:BX:36:LYS:C	2.29	0.71
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.04	0.71
1:CA:472:A:H4'	16:CP:82:GLN:NE2	2.05	0.71
1:CA:922:G:O2'	5:CE:19:MET:HB2	1.91	0.71
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.72	0.71
23:D1:47:GLN:HB2	31:DA:397:G:H5''	1.71	0.71
31:DA:128:C:H2'	31:DA:129:C:O4'	1.90	0.71
31:DA:911:A:C5	42:DQ:9:TYR:HE2	2.07	0.71
31:DA:925:C:C2'	31:DA:926:A:H5''	2.20	0.71
31:DA:1170:G:H1	31:DA:1179:C:N4	1.88	0.71
31:DA:1637:A:H4'	31:DA:2711:A:O2'	1.90	0.71
31:DA:1662:C:O2'	31:DA:1663:C:H5'	1.90	0.71
47:DV:18:LEU:HD22	47:DV:19:LYS:HA	1.72	0.71
49:DX:35:THR:CB	49:DX:75:ASP:OD2	2.38	0.71
2:AB:185:ILE:HG22	2:AB:199:TYR:CB	2.18	0.71
22:B0:32:ARG:H	22:B0:35:ASN:HD21	1.36	0.71
31:BA:151:C:O2'	31:BA:152:G:H5'	1.90	0.71
31:BA:197:A:H8	31:BA:197:A:H5'	1.54	0.71
31:BA:631:A:O2'	41:BP:67:MET:HB3	1.91	0.71
31:BA:764:A:C6	31:BA:781:A:C2	2.78	0.71
31:BA:2850:A:OP2	31:BA:2866:U:H5	1.73	0.71
34:BE:11:MET:HB2	34:BE:23:VAL:O	1.90	0.71
42:BQ:22:LYS:HA	42:BQ:22:LYS:CE	2.14	0.71
44:BS:42:ASP:O	44:BS:43:GLU:HB2	1.89	0.71
49:BX:82:GLN:HG3	49:BX:85:PRO:CD	2.21	0.71
50:BY:14:LEU:HG	50:BY:15:VAL:N	2.05	0.71
50:BY:81:LYS:CG	50:BY:96:ILE:HG22	2.19	0.71
1:CA:622:A:C8	1:CA:623:C:C6	2.78	0.71
2:CB:180:LEU:O	2:CB:181:PHE:HB2	1.89	0.71
30:D8:43:GLN:C	30:D8:44:LYS:HD2	2.11	0.71
31:DA:80:G:C2'	31:DA:81:G:H5'	2.21	0.71
31:DA:784:A:C5'	31:DA:785:G:OP1	2.37	0.71
31:DA:1005:C:O2'	39:DN:28:THR:HG21	1.90	0.71
31:DA:1488:G:C6	31:DA:1489:U:N3	2.58	0.71
31:DA:2186:G:C3'	31:DA:2187:G:H5''	2.20	0.71
31:DA:2642:G:H5''	39:DN:78:TYR:CE1	2.24	0.71
36:DG:124:SER:HB2	36:DG:131:TYR:CE1	2.26	0.71
1:AA:414:A:H2'	1:AA:415:A:C8	2.26	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1291:G:H4'	9:AI:38:GLN:O	1.89	0.71
15:AO:33:THR:HG21	15:AO:85:LEU:HD22	1.72	0.71
31:BA:343:C:C2'	31:BA:344:G:H5'	2.21	0.71
31:BA:1719:G:H2'	31:BA:1720:U:H5'	1.70	0.71
31:BA:2096:U:H3	31:BA:2193:G:H1	1.39	0.71
36:BG:111:LEU:HD23	36:BG:114:ILE:HD12	1.73	0.71
44:BS:59:LYS:HB2	44:BS:65:VAL:CG2	2.20	0.71
44:BS:95:HIS:CG	44:BS:96:GLY:H	2.05	0.71
1:CA:659:U:C2'	1:CA:660:G:H5'	2.20	0.71
1:CA:921:U:C2	1:CA:922:G:C2	2.79	0.71
22:D0:74:ARG:HH22	32:DB:13:A:H5'	1.56	0.71
28:D6:19:ARG:CG	28:D6:20:ASN:H	2.02	0.71
31:DA:71:A:C2	49:DX:31:HIS:CE1	2.79	0.71
31:DA:2681:C:H5	31:DA:2725:A:N6	1.88	0.71
33:DD:145:VAL:HG12	33:DD:146:GLU:O	1.89	0.71
37:DH:20:ALA:HB1	37:DH:21:PRO:CD	2.20	0.71
37:DH:41:MET:HG3	37:DH:54:ARG:HA	1.72	0.71
45:DT:3:ARG:HB2	45:DT:6:LEU:HB3	1.72	0.71
1:AA:339:C:OP2	40:BO:97:ARG:CZ	2.39	0.71
1:AA:1030(A):G:H2'	1:AA:1030(C):G:OP2	1.91	0.71
1:AA:1066:C:H5'	1:AA:1067:A:OP2	1.91	0.71
28:B6:19:ARG:CG	28:B6:20:ASN:H	2.04	0.71
30:B8:4:MET:O	30:B8:62:LEU:HD11	1.90	0.71
31:BA:1474:C:H6	31:BA:1474:C:H5''	1.54	0.71
31:BA:1962:C:O2'	31:BA:1964:G:OP2	2.09	0.71
31:BA:2531:A:H2	31:BA:2658:C:O2	1.74	0.71
39:BN:77:GLY:O	39:BN:78:TYR:HB3	1.88	0.71
41:BP:23:PRO:C	41:BP:33:ARG:HE	1.94	0.71
41:BP:85:LEU:HA	41:BP:88:LEU:HB2	1.73	0.71
44:BS:34:HIS:HB3	44:BS:53:SER:HB2	1.71	0.71
45:BT:32:TYR:N	45:BT:32:TYR:CD2	2.59	0.71
45:BT:41:ARG:O	45:BT:43:GLN:N	2.23	0.71
46:BU:90:VAL:O	46:BU:92:ARG:N	2.23	0.71
49:BX:65:ARG:NE	49:BX:65:ARG:HA	2.04	0.71
1:CA:106:C:H2'	1:CA:107:G:C8	2.25	0.71
2:CB:71:VAL:HG13	2:CB:93:VAL:HB	1.73	0.71
22:D0:18:ALA:HB1	31:DA:2271:G:OP1	1.91	0.71
23:D1:37:ILE:HD11	31:DA:2079:U:H4'	1.72	0.71
31:DA:1721:G:C2	31:DA:1739:U:OP2	2.44	0.71
31:DA:1777:U:O2'	31:DA:1778:U:H5'	1.90	0.71
32:DB:57:A:C5	36:DG:29:TRP:CD1	2.79	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:7:LEU:HB3	36:DG:100:TRP:HE3	1.55	0.71
44:DS:89:ARG:HB3	44:DS:92:TYR:CB	2.20	0.71
46:DU:90:VAL:HG13	47:DV:39:LEU:HG	1.73	0.71
50:DY:75:ILE:HD13	50:DY:76:CYS:N	2.05	0.71
51:DZ:151:HIS:N	51:DZ:151:HIS:ND1	2.38	0.71
1:AA:364:A:H2'	1:AA:365:U:O2	1.91	0.71
31:BA:833:U:H2'	31:BA:834:C:C6	2.25	0.71
31:BA:2660:A:H5''	31:BA:2661:G:H21	1.55	0.71
31:BA:2777:G:H5''	31:BA:2778:A:H5'	1.73	0.71
31:BA:2859:G:H3'	31:BA:2859:G:C8	2.25	0.71
34:BE:201:THR:HG22	34:BE:202:LYS:N	2.05	0.71
35:BF:101:LEU:HD12	35:BF:102:PRO:CD	2.21	0.71
39:BN:57:ALA:HB1	39:BN:60:ILE:HD11	1.73	0.71
42:BQ:29:PHE:O	42:BQ:30:GLY:O	2.09	0.71
48:BW:73:ALA:O	48:BW:106:ILE:HD13	1.90	0.71
49:BX:35:THR:CB	49:BX:75:ASP:OD2	2.39	0.71
1:CA:1090:U:H2'	1:CA:1091:U:C6	2.22	0.71
1:CA:1091:U:O2	1:CA:1091:U:H2'	1.90	0.71
1:CA:1475:G:H4'	31:DA:1689:A:H4'	1.73	0.71
3:CC:71:ALA:HB2	3:CC:115:LEU:HD13	1.73	0.71
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.72	0.71
10:CJ:49:VAL:HG13	14:CN:41:ARG:HB2	1.72	0.71
12:CL:62:SER:C	12:CL:64:TYR:H	1.93	0.71
22:DO:2:ALA:H	31:DA:2602:A:N6	1.88	0.71
31:DA:601:C:H1'	31:DA:605:C:H5''	1.73	0.71
31:DA:812:C:H1'	31:DA:1250:G:C2	2.26	0.71
31:DA:896:A:C2	31:DA:898:C:H5''	2.26	0.71
31:DA:1021:A:H2'	31:DA:1023:U:H5'	1.71	0.71
31:DA:1568:G:N2	33:DD:58:HIS:HE1	1.89	0.71
31:DA:1578:U:H2'	31:DA:1578:U:O2	1.89	0.71
31:DA:1962:C:O2'	31:DA:1964:G:OP2	2.08	0.71
33:DD:25:THR:O	33:DD:27:THR:N	2.24	0.71
44:DS:84:GLN:HE21	44:DS:105:ALA:HB1	1.56	0.71
49:DX:33:LYS:C	49:DX:35:THR:N	2.44	0.71
1:AA:1347:G:C8	9:AI:107:ARG:HB3	2.26	0.71
11:AK:83:ILE:HA	11:AK:109:VAL:O	1.90	0.71
12:AL:62:SER:C	12:AL:64:TYR:H	1.94	0.71
30:B8:59:LYS:CD	41:BP:50:ARG:HB3	2.21	0.71
31:BA:904:C:C2'	31:BA:905:U:H5'	2.20	0.71
31:BA:1502:C:H5'	31:BA:1503:U:OP2	1.91	0.71
31:BA:2853:C:H2'	31:BA:2854:G:C8	2.26	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:76:SER:HB3	36:BG:84:LYS:H	1.55	0.71
45:BT:32:TYR:CD2	45:BT:81:PRO:O	2.43	0.71
49:BX:57:LEU:HD12	49:BX:57:LEU:N	2.06	0.71
50:BY:2:ARG:C	50:BY:4:LYS:H	1.91	0.71
1:CA:524:G:H2'	1:CA:525:C:C6	2.25	0.71
1:CA:537:G:H2'	1:CA:538:G:H8	1.56	0.71
1:CA:1030(D):A:H62	1:CA:1031:G:H21	1.38	0.71
1:CA:1116:C:H3'	1:CA:1117:G:H5''	1.73	0.71
2:CB:135:GLN:O	2:CB:139:LYS:HB2	1.91	0.71
24:D2:49:LYS:O	24:D2:51:ARG:O	2.09	0.71
31:DA:52:A:O2'	31:DA:53:A:H5'	1.91	0.71
31:DA:234:C:H2'	31:DA:235:U:C6	2.26	0.71
31:DA:363(E):U:H3'	31:DA:363(F):A:O4'	1.90	0.71
31:DA:557:U:H2'	31:DA:558:G:H8	1.56	0.71
31:DA:943:U:OP2	41:DP:38:GLN:CD	2.29	0.71
31:DA:2059:A:O2'	35:DF:69:HIS:HD2	1.73	0.71
31:DA:2334:G:N2	44:DS:18:ILE:HD11	2.03	0.71
31:DA:2340:G:O2'	31:DA:2341:G:H5'	1.91	0.71
31:DA:2418:A:H2'	31:DA:2419:U:C6	2.26	0.71
49:DX:36:LYS:NZ	49:DX:39:ILE:HA	2.06	0.71
51:DZ:149:SER:HB2	51:DZ:172:ALA:O	1.91	0.71
2:AB:139:LYS:O	2:AB:143:GLU:HG2	1.90	0.71
3:AC:130:VAL:O	3:AC:134:ILE:HG12	1.90	0.71
5:AE:33:VAL:HG11	5:AE:109:ILE:HA	1.73	0.71
31:BA:128:C:H2'	31:BA:129:C:O4'	1.91	0.71
31:BA:814:C:O2'	31:BA:815:C:H5'	1.91	0.71
31:BA:2186:G:C3'	31:BA:2187:G:H5''	2.21	0.71
31:BA:2311:A:OP1	31:BA:2312:U:H5	1.74	0.71
31:BA:2377:A:H4'	44:BS:107:GLU:CG	2.21	0.71
31:BA:2562:U:H1'	40:BO:23:ARG:NH1	2.05	0.71
33:BD:25:THR:O	33:BD:27:THR:N	2.23	0.71
49:BX:72:LYS:CG	49:BX:73:ARG:H	2.04	0.71
1:CA:78:G:H1	1:CA:91:C:H42	1.38	0.71
8:CH:97:VAL:HA	8:CH:100:ILE:HD11	1.71	0.71
31:DA:528:A:C2	31:DA:2043:C:H5'	2.26	0.71
31:DA:1047:G:H21	31:DA:1111:A:N6	1.86	0.71
31:DA:1502:C:H2'	31:DA:1502:C:O2	1.88	0.71
31:DA:2199:A:OP2	31:DA:2200:C:C5	2.43	0.71
31:DA:2444:G:OP2	35:DF:68:LYS:HE2	1.90	0.71
33:DD:43:ARG:HH11	33:DD:44:ASN:CG	1.94	0.71
37:DH:89:ILE:CD1	37:DH:90:LYS:H	2.04	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:70:LYS:HB3	39:DN:87:LEU:HB2	1.72	0.71
41:DP:124:LYS:HG2	41:DP:143:GLY:CA	2.20	0.71
42:DQ:8:LYS:HD2	42:DQ:9:TYR:N	2.04	0.71
45:DT:89:VAL:HG11	45:DT:91:ARG:HE	1.55	0.71
49:DX:35:THR:O	49:DX:36:LYS:C	2.30	0.71
49:DX:73:ARG:H	49:DX:74:PRO:CD	2.03	0.71
1:AA:501:C:H2'	1:AA:502:G:H8	1.54	0.70
1:AA:1442:G:C5	1:AA:1442(B):A:C2	2.78	0.70
3:AC:134:ILE:HD12	3:AC:151:VAL:HG11	1.73	0.70
12:AL:24:VAL:HG12	12:AL:24:VAL:O	1.90	0.70
13:AM:52:GLU:O	13:AM:56:LEU:HB2	1.91	0.70
24:B2:33:MET:HG2	49:BX:11:PRO:CD	2.21	0.70
31:BA:1657:C:H5''	34:BE:133:LYS:O	1.90	0.70
31:BA:2537:U:H2'	31:BA:2538:C:C6	2.25	0.70
31:BA:2658:C:O2	31:BA:2658:C:H2'	1.91	0.70
35:BF:185:ASP:OD1	35:BF:188:ARG:NH1	2.23	0.70
37:BH:85:LYS:HZ2	37:BH:133:VAL:CG2	2.04	0.70
49:BX:73:ARG:H	49:BX:74:PRO:CD	2.04	0.70
1:CA:955:U:H1'	1:CA:1227:A:N6	2.06	0.70
1:CA:1030(A):G:H2'	1:CA:1030(C):G:OP2	1.91	0.70
1:CA:1103:C:H5''	2:CB:98:LEU:HD13	1.71	0.70
12:CL:58:VAL:HG21	12:CL:85:ILE:HD11	1.71	0.70
49:DX:24:GLY:HA3	49:DX:80:ILE:HG13	1.72	0.70
51:DZ:39:VAL:HG21	51:DZ:44:PHE:HB2	1.73	0.70
1:AA:676:A:H2'	1:AA:677:U:H6	1.56	0.70
1:AA:1442(B):A:H2'	1:AA:1442(B):A:N3	2.05	0.70
1:AA:1483:A:C2	31:BA:1959:G:N3	2.60	0.70
5:AE:6:PHE:HB2	5:AE:34:VAL:CG1	2.21	0.70
9:AI:45:ALA:O	9:AI:48:GLU:HB2	1.91	0.70
11:AK:69:ALA:HB1	11:AK:103:LEU:HD23	1.73	0.70
16:AP:74:LEU:O	16:AP:79:VAL:HB	1.91	0.70
19:AS:6:LYS:HG2	19:AS:7:LYS:HD3	1.72	0.70
22:B0:20:ARG:NE	31:BA:2271:G:H5''	2.06	0.70
31:BA:814:C:C5	41:BP:27:HIS:CE1	2.79	0.70
31:BA:855:G:C6	31:BA:856:C:N4	2.59	0.70
31:BA:2580:U:H4'	34:BE:130:GLY:HA2	1.73	0.70
32:BB:37:C:O2	32:BB:38:C:O2	2.10	0.70
33:BD:35:LYS:CD	33:BD:104:TYR:HD1	2.03	0.70
37:BH:86:GLU:HB3	37:BH:132:ARG:HG2	1.74	0.70
39:BN:67:LEU:HD22	39:BN:88:GLU:OE2	1.91	0.70
44:BS:84:GLN:HE21	44:BS:105:ALA:HB1	1.56	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:37:VAL:HG22	50:BY:67:LEU:O	1.91	0.70
1:CA:828:A:H5''	1:CA:859:A:C2	2.26	0.70
31:DA:14:A:C6	31:DA:526:A:C2	2.78	0.70
31:DA:151:C:O2'	31:DA:152:G:H5'	1.91	0.70
31:DA:1045:A:H1'	31:DA:1047:G:C8	2.26	0.70
31:DA:2853:C:H2'	31:DA:2854:G:C8	2.26	0.70
37:DH:123:PHE:HZ	37:DH:148:ILE:HD11	1.56	0.70
41:DP:106:LEU:HD13	41:DP:112:LEU:HD23	1.72	0.70
43:DR:72:ASP:HB3	43:DR:75:LEU:HB2	1.73	0.70
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.26	0.70
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.74	0.70
6:AF:96:PRO:HB3	18:AR:30:ASP:OD2	1.90	0.70
28:B6:42:TRP:HA	28:B6:42:TRP:CE3	2.26	0.70
30:B8:32:LEU:CB	30:B8:35:GLN:H	2.04	0.70
31:BA:2093:G:O5'	38:BI:24:GLY:HA3	1.91	0.70
33:BD:35:LYS:CD	33:BD:63:ARG:HB3	2.21	0.70
34:BE:117:MET:HB2	34:BE:122:PHE:O	1.91	0.70
41:BP:124:LYS:HG2	41:BP:143:GLY:CA	2.19	0.70
47:BV:60:GLU:HB3	47:BV:62:LEU:HD21	1.73	0.70
47:BV:71:LEU:CD1	47:BV:72:VAL:H	2.03	0.70
1:CA:59:A:H5''	1:CA:60:A:C5'	2.21	0.70
12:CL:20:LYS:HD3	12:CL:20:LYS:H	1.55	0.70
28:D6:48:VAL:O	28:D6:49:HIS:HB2	1.90	0.70
31:DA:1316:U:O2'	31:DA:1317:A:H5'	1.90	0.70
33:DD:235:GLY:O	33:DD:237:GLU:HG2	1.90	0.70
36:DG:7:LEU:HB2	36:DG:104:GLU:OE2	1.91	0.70
47:DV:66:ARG:NE	47:DV:94:LEU:HG	2.05	0.70
50:DY:76:CYS:SG	50:DY:77:PRO:HD2	2.32	0.70
51:DZ:108:PRO:HB3	51:DZ:141:VAL:HG22	1.71	0.70
1:AA:522:C:H41	12:AL:53:ARG:NH2	1.90	0.70
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.73	0.70
31:BA:576:U:H2'	31:BA:577:G:C8	2.26	0.70
31:BA:751:A:H5'	48:BW:90:ARG:HA	1.71	0.70
31:BA:972:G:OP2	31:BA:974:G:H5''	1.91	0.70
31:BA:2723:C:H5''	43:BR:2:ARG:HD3	1.71	0.70
33:BD:71:ASP:CB	33:BD:103:ARG:HH22	2.03	0.70
33:BD:94:LEU:HB2	33:BD:104:TYR:CD2	2.27	0.70
42:BQ:81:VAL:O	42:BQ:82:ARG:CG	2.38	0.70
47:BV:60:GLU:OE1	47:BV:60:GLU:HA	1.91	0.70
50:BY:76:CYS:CB	50:BY:77:PRO:HD2	2.22	0.70
1:CA:518:C:H4'	1:CA:519:C:H5''	1.74	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.74	0.70
5:CE:50:GLU:OE2	5:CE:51:VAL:HG23	1.90	0.70
20:CT:13:LEU:H	20:CT:13:LEU:CD1	2.03	0.70
20:CT:82:SER:O	20:CT:86:ARG:HB2	1.92	0.70
31:DA:61:G:H1	31:DA:94:C:N4	1.89	0.70
31:DA:587:C:C4'	31:DA:588:U:OP2	2.38	0.70
31:DA:892:G:H1	31:DA:894:C:N4	1.90	0.70
31:DA:1287:A:H5''	31:DA:1288:U:OP2	1.90	0.70
31:DA:2308:G:O6	31:DA:2310:A:H2'	1.91	0.70
37:DH:153:LYS:HD3	37:DH:153:LYS:H	1.57	0.70
42:DQ:41:TRP:HB3	42:DQ:94:VAL:HB	1.72	0.70
45:DT:33:LYS:HZ2	45:DT:33:LYS:N	1.88	0.70
46:DU:34:LYS:HA	46:DU:34:LYS:HE2	1.74	0.70
1:AA:102:G:C4	1:AA:103:C:C5	2.80	0.70
1:AA:392:G:H2'	1:AA:393:A:C8	2.27	0.70
1:AA:819:A:H4'	1:AA:820:U:OP2	1.91	0.70
2:AB:135:GLN:O	2:AB:139:LYS:HB2	1.92	0.70
17:AQ:67:LYS:HA	17:AQ:70:ARG:NH1	2.07	0.70
31:BA:234:C:H2'	31:BA:235:U:C6	2.25	0.70
31:BA:296:C:H2'	31:BA:297:C:H6	1.56	0.70
31:BA:514:A:H1'	31:BA:581:C:O2'	1.91	0.70
31:BA:1550:C:O2'	31:BA:1551:C:H5'	1.91	0.70
31:BA:1721:G:N1	31:BA:1739:U:OP2	2.25	0.70
31:BA:2291:U:H4'	31:BA:2380:C:O2	1.92	0.70
32:BB:68:C:H2'	32:BB:68:C:O2	1.91	0.70
33:BD:35:LYS:HA	33:BD:64:ILE:HG22	1.71	0.70
35:BF:184:TYR:CE2	35:BF:188:ARG:HD2	2.27	0.70
41:BP:105:LEU:HD12	41:BP:105:LEU:N	2.05	0.70
1:CA:15:G:N1	1:CA:922:G:N1	2.38	0.70
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	1.92	0.70
27:D5:16:ARG:HG2	27:D5:16:ARG:NH1	2.00	0.70
31:DA:958:U:H5''	42:DQ:14:ARG:HD3	1.73	0.70
31:DA:1425:G:H2'	31:DA:1426:G:O4'	1.92	0.70
31:DA:2542:A:H5''	31:DA:2542:A:N3	2.06	0.70
31:DA:2564:A:OP1	31:DA:2648:C:H4'	1.91	0.70
36:DG:15:VAL:O	36:DG:19:LEU:HG	1.91	0.70
46:DU:92:ARG:HB3	47:DV:11:GLN:HE22	1.56	0.70
51:DZ:151:HIS:HB3	51:DZ:170:THR:CA	2.19	0.70
1:AA:80:G:H1	1:AA:89:C:N4	1.89	0.70
1:AA:106:C:H2'	1:AA:107:G:C8	2.26	0.70
1:AA:192:U:H2'	1:AA:193:C:C6	2.24	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:586:C:C2'	1:AA:587:G:H5'	2.22	0.70
1:AA:671:G:H2'	1:AA:672:U:H6	1.56	0.70
11:AK:111:ASP:HA	18:AR:84:LYS:HE2	1.71	0.70
23:B1:19:GLN:NE2	31:BA:379:G:H21	1.81	0.70
31:BA:1021:A:H2'	31:BA:1023:U:H5'	1.71	0.70
31:BA:1037:G:H1	31:BA:1118:C:N4	1.89	0.70
31:BA:1388:G:C2'	31:BA:1389:G:H5'	2.22	0.70
31:BA:2404:C:C2'	31:BA:2405:G:H5'	2.21	0.70
31:BA:2720:U:O2	31:BA:2720:U:H2'	1.92	0.70
36:BG:173:LEU:HA	36:BG:176:LEU:HB2	1.73	0.70
1:CA:414:A:H2'	1:CA:415:A:C8	2.26	0.70
1:CA:892:A:H2'	1:CA:893:C:C6	2.27	0.70
1:CA:940:C:OP1	7:CG:102:ARG:HD3	1.91	0.70
2:CB:139:LYS:O	2:CB:143:GLU:HG2	1.91	0.70
3:CC:62:ASP:O	3:CC:97:LYS:HB3	1.90	0.70
6:CF:39:LYS:HB3	6:CF:62:TRP:HZ3	1.56	0.70
8:CH:110:ALA:HB1	8:CH:133:LEU:HD21	1.73	0.70
31:DA:343:C:C2'	31:DA:344:G:H5'	2.21	0.70
31:DA:1491:G:O2'	33:DD:101:GLU:HB2	1.90	0.70
31:DA:2196:C:O2'	31:DA:2197:U:H5'	1.92	0.70
31:DA:2542:A:H8	31:DA:2544:G:O6	1.74	0.70
31:DA:2663:G:C8	31:DA:2664:G:N7	2.60	0.70
31:DA:2688:U:H5	31:DA:2720:U:OP2	1.75	0.70
35:DF:3:GLU:O	35:DF:24:LEU:HG	1.92	0.70
47:DV:72:VAL:C	47:DV:88:ARG:NH2	2.45	0.70
1:AA:783:C:O2'	1:AA:784:C:H5'	1.92	0.70
1:AA:1116:C:H3'	1:AA:1117:G:H5''	1.73	0.70
2:AB:212:GLN:NE2	2:AB:235:SER:HB3	2.05	0.70
19:AS:40:ILE:HD13	19:AS:62:ILE:HD11	1.74	0.70
31:BA:330:A:C2	31:BA:1210:A:H2'	2.24	0.70
31:BA:2287:A:C2	31:BA:2289:G:C8	2.79	0.70
32:BB:58:A:H2'	32:BB:58:A:N3	2.06	0.70
38:BI:91:SER:HB2	38:BI:119:PRO:O	1.91	0.70
41:BP:112:LEU:HD22	41:BP:113:LYS:N	2.06	0.70
45:BT:109:GLU:HB3	45:BT:113:LYS:HE3	1.74	0.70
1:CA:9:G:H2'	1:CA:10:A:C8	2.24	0.70
1:CA:46:G:O2'	1:CA:365:U:H1'	1.92	0.70
1:CA:771:G:O2'	1:CA:772:U:H5'	1.91	0.70
24:D2:49:LYS:NZ	24:D2:53:LEU:HD22	2.07	0.70
24:D2:51:ARG:HE	31:DA:72:U:H5'	1.57	0.70
31:DA:330:A:C2	31:DA:1210:A:H2'	2.25	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:848:G:H8	31:DA:848:G:H5'	1.55	0.70
31:DA:1254:A:H5'	31:DA:1255:U:H5'	1.73	0.70
31:DA:1502:C:H5'	31:DA:1503:U:OP2	1.91	0.70
31:DA:1790:C:H5''	31:DA:1791:A:OP1	1.91	0.70
31:DA:2305:A:H5''	36:DG:134:GLY:HA3	1.72	0.70
31:DA:2496:C:OP1	42:DQ:81:VAL:HG12	1.92	0.70
33:DD:62:TYR:CE1	33:DD:64:ILE:HA	2.27	0.70
34:DE:27:LEU:HD22	45:DT:1:MET:CE	2.21	0.70
41:DP:45:LEU:HD22	41:DP:46:LYS:H	1.57	0.70
45:DT:65:LYS:HE3	45:DT:66:VAL:N	2.05	0.70
45:DT:109:GLU:HB3	45:DT:113:LYS:HE3	1.72	0.70
22:B0:2:ALA:H	31:BA:2602:A:N6	1.89	0.70
31:BA:39:C:O2'	31:BA:40:C:H5'	1.92	0.70
31:BA:271(E):U:H2'	31:BA:271(F):C:C6	2.26	0.70
32:BB:57:A:C6	36:BG:29:TRP:CD1	2.80	0.70
33:BD:43:ARG:HH11	33:BD:44:ASN:CG	1.95	0.70
40:BO:18:LYS:HB2	40:BO:45:GLU:HG2	1.73	0.70
41:BP:17:LYS:O	41:BP:19:VAL:N	2.22	0.70
45:BT:100:TYR:CD2	45:BT:103:ARG:NH2	2.60	0.70
49:BX:76:ARG:O	49:BX:77:LYS:HB2	1.90	0.70
1:CA:160:A:H1'	1:CA:344:A:C8	2.26	0.70
1:CA:1442(A):G:C5	45:DT:118:ARG:CZ	2.74	0.70
6:CF:96:PRO:HB3	18:CR:30:ASP:OD2	1.91	0.70
16:CP:45:THR:HG22	16:CP:47:ASP:H	1.55	0.70
31:DA:779:U:H5''	33:DD:49:ILE:HD11	1.71	0.70
31:DA:1359:A:H2'	31:DA:1360:A:H5'	1.72	0.70
35:DF:132:VAL:O	35:DF:134:GLY:N	2.25	0.70
42:DQ:8:LYS:CD	42:DQ:9:TYR:H	2.03	0.70
49:DX:72:LYS:HG3	49:DX:73:ARG:H	1.55	0.70
1:AA:560:U:H5'	1:AA:566:G:N2	2.07	0.70
1:AA:814:A:N7	1:AA:816:A:C4	2.60	0.70
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.27	0.70
31:BA:792:G:H5''	31:BA:793:A:H5'	1.73	0.70
31:BA:1005:C:O2'	39:BN:28:THR:HG21	1.92	0.70
31:BA:2267:A:H5''	31:BA:2268:A:H5'	1.72	0.70
33:BD:172:TYR:CD1	33:BD:186:HIS:HA	2.27	0.70
35:BF:132:VAL:O	35:BF:134:GLY:N	2.24	0.70
39:BN:3:THR:C	39:BN:4:TYR:CD1	2.65	0.70
50:BY:95:LYS:HD3	50:BY:100:ALA:HB1	1.74	0.70
51:BZ:15:PRO:O	51:BZ:19:ARG:HD2	1.91	0.70
1:CA:80:G:H1	1:CA:89:C:N4	1.88	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:36:ARG:HB3	4:CD:38:TYR:CE1	2.26	0.70
23:D1:34:THR:HG21	31:DA:388:G:OP2	1.91	0.70
30:D8:35:GLN:HE21	30:D8:36:LYS:NZ	1.89	0.70
31:DA:39:C:O2'	31:DA:40:C:H5'	1.91	0.70
31:DA:528:A:C2	31:DA:2043:C:C5'	2.74	0.70
31:DA:1185:C:H5''	31:DA:1186:G:OP1	1.91	0.70
31:DA:1721:G:N1	31:DA:1739:U:OP2	2.25	0.70
31:DA:2646:C:OP2	31:DA:2732:G:O2'	2.08	0.70
31:DA:2821:A:C2	31:DA:2822:G:C4	2.80	0.70
32:DB:13:A:N1	32:DB:69:G:O2'	2.24	0.70
32:DB:51:G:H5'	32:DB:52:A:OP2	1.92	0.70
33:DD:17:THR:HG23	33:DD:205:VAL:HB	1.74	0.70
33:DD:143:HIS:HD2	33:DD:144:ALA:CB	2.05	0.70
35:DF:103:LYS:HA	35:DF:106:ARG:HG3	1.72	0.70
41:DP:38:GLN:HG3	41:DP:39:LYS:N	2.04	0.70
49:DX:64:LYS:HE3	49:DX:65:ARG:HH21	1.57	0.70
13:AM:25:ILE:HD11	13:AM:66:LEU:HD23	1.73	0.70
31:BA:265:A:H1'	31:BA:266:G:O4'	1.92	0.70
31:BA:285:C:H2'	31:BA:286:C:C5'	2.19	0.70
31:BA:389:G:H1	41:BP:71:VAL:H	1.40	0.70
31:BA:675:A:C8	31:BA:804:A:C6	2.79	0.70
31:BA:1790:C:H2'	31:BA:1791:A:C5	2.26	0.70
31:BA:2463:C:O2'	31:BA:2464:C:H5'	1.92	0.70
33:BD:133:LEU:HA	33:BD:136:ILE:HD13	1.73	0.70
35:BF:81:PRO:HB3	35:BF:87:GLY:O	1.91	0.70
50:BY:30:VAL:HG12	50:BY:31:LEU:N	2.05	0.70
1:CA:590:C:H2'	1:CA:591:U:H6	1.55	0.70
31:DA:491:G:H2'	31:DA:492:A:C8	2.27	0.70
31:DA:1429:G:H2'	31:DA:1430:C:H6	1.52	0.70
31:DA:1482:G:N2	31:DA:1507:A:H1'	2.06	0.70
33:DD:95:LEU:HD21	33:DD:105:ILE:HG22	1.72	0.70
41:DP:17:LYS:C	41:DP:19:VAL:H	1.95	0.70
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.06	0.69
1:AA:538:G:OP2	12:AL:115:LYS:HG3	1.92	0.69
30:B8:52:LYS:H	30:B8:53:PRO:CD	2.03	0.69
31:BA:363(E):U:H3'	31:BA:363(F):A:O4'	1.92	0.69
31:BA:542:C:N4	31:BA:543:C:H42	1.90	0.69
31:BA:667:U:H2'	31:BA:668:G:H5'	1.73	0.69
31:BA:1488:G:C6	31:BA:1489:U:N3	2.60	0.69
31:BA:2316:C:H2'	31:BA:2317:C:H6	1.56	0.69
31:BA:2387:U:H5''	31:BA:2388:A:OP2	1.92	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2542:A:H5''	31:BA:2542:A:N3	2.06	0.69
34:BE:120:TRP:CE3	34:BE:155:LYS:HD3	2.27	0.69
37:BH:149:ARG:HD3	37:BH:164:TYR:HE1	1.57	0.69
39:BN:65:LYS:HD3	39:BN:67:LEU:HB2	1.73	0.69
41:BP:35:HIS:O	41:BP:35:HIS:CD2	2.45	0.69
41:BP:83:VAL:CG1	41:BP:112:LEU:HD21	2.21	0.69
41:BP:146:VAL:HG22	41:BP:147:LEU:N	2.07	0.69
42:BQ:140:ALA:H	51:BZ:53:ILE:HD12	1.55	0.69
44:BS:38:GLN:CG	44:BS:47:THR:HG21	2.22	0.69
1:CA:568:G:O6	12:CL:5:PRO:HD3	1.92	0.69
1:CA:663:A:O2'	1:CA:664:G:H5'	1.91	0.69
1:CA:1442(B):A:H2'	1:CA:1442(B):A:N3	2.07	0.69
31:DA:271(A):A:H5'	31:DA:271(B):C:OP2	1.91	0.69
31:DA:2652:C:H2'	31:DA:2653:U:H5'	1.73	0.69
31:DA:2853:C:H2'	31:DA:2854:G:H8	1.57	0.69
31:DA:2875:C:O2'	45:DT:5:ALA:HB3	1.92	0.69
34:DE:48:GLN:NE2	34:DE:78:LEU:HD13	2.07	0.69
36:DG:76:SER:HB3	36:DG:84:LYS:H	1.57	0.69
44:DS:34:HIS:HB3	44:DS:53:SER:HB2	1.73	0.69
11:AK:29:ILE:HG13	11:AK:43:SER:O	1.91	0.69
25:B3:8:LEU:HA	25:B3:54:VAL:HG12	1.74	0.69
31:BA:1170:G:H1	31:BA:1179:C:N4	1.89	0.69
31:BA:1517:G:H8	31:BA:1517:G:H5''	1.55	0.69
31:BA:1639:U:O2'	31:BA:1640:C:H5''	1.91	0.69
31:BA:1648:C:H2'	31:BA:1649:G:O5'	1.91	0.69
31:BA:2092:U:H4'	31:BA:2093:G:O5'	1.91	0.69
31:BA:2472:G:N1	31:BA:2477:C:OP1	2.25	0.69
50:BY:31:LEU:HD12	50:BY:34:LYS:H	1.57	0.69
1:CA:538:G:OP2	12:CL:115:LYS:HG3	1.91	0.69
8:CH:51:VAL:HG11	8:CH:60:ARG:HG3	1.73	0.69
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.73	0.69
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.57	0.69
29:D7:40:TRP:CD2	31:DA:459:U:H5''	2.26	0.69
31:DA:1742:G:N7	31:DA:1743:C:C2	2.60	0.69
45:DT:29:ARG:HB3	45:DT:85:LYS:HA	1.75	0.69
1:AA:542:G:H2'	1:AA:543:C:H6	1.57	0.69
4:AD:128:VAL:CG1	4:AD:129:ASN:HD22	1.98	0.69
6:AF:49:ALA:HB2	18:AR:78:LEU:O	1.92	0.69
23:B1:12:PRO:HD2	23:B1:62:VAL:CG2	2.19	0.69
24:B2:14:ARG:NH1	24:B2:57:ILE:CG2	2.55	0.69
27:B5:40:LYS:HZ2	27:B5:46:CYS:H	1.37	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:814:C:C5	41:BP:27:HIS:NE2	2.61	0.69
31:BA:1372:U:H2'	31:BA:1373:A:O4'	1.91	0.69
31:BA:1482:G:N2	31:BA:1507:A:H1'	2.05	0.69
31:BA:2272:U:H5''	31:BA:2273:A:OP1	1.91	0.69
37:BH:43:VAL:HG23	37:BH:43:VAL:O	1.91	0.69
45:BT:30:VAL:HG21	45:BT:83:ILE:HG12	1.73	0.69
45:BT:91:ARG:HA	45:BT:117:ASP:H	1.57	0.69
46:BU:92:ARG:HB3	47:BV:11:GLN:HE22	1.56	0.69
47:BV:13:ARG:HH12	47:BV:15:GLU:HG2	1.58	0.69
1:CA:267:C:OP1	17:CQ:67:LYS:HD2	1.93	0.69
1:CA:564:C:C6	17:CQ:31:LEU:HD11	2.27	0.69
1:CA:1158:C:N3	1:CA:1181:G:N2	2.39	0.69
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.73	0.69
8:CH:104:ARG:O	8:CH:107:LEU:HG	1.92	0.69
9:CI:45:ALA:O	9:CI:48:GLU:HB2	1.92	0.69
24:D2:14:ARG:CZ	24:D2:15:LYS:H	2.05	0.69
25:D3:7:LYS:O	25:D3:9:VAL:HG13	1.93	0.69
31:DA:184:C:H2'	31:DA:185:U:H6	1.56	0.69
31:DA:754:C:H2'	31:DA:755:C:C6	2.27	0.69
31:DA:904:C:C2'	31:DA:905:U:H5'	2.22	0.69
42:DQ:20:ALA:O	42:DQ:22:LYS:N	2.24	0.69
44:DS:95:HIS:CG	44:DS:96:GLY:H	2.08	0.69
48:DW:5:ALA:HB2	48:DW:54:ALA:HB2	1.75	0.69
1:AA:84:U:H5	1:AA:88:A:C8	2.10	0.69
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.19	0.69
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.12	0.69
6:AF:91:VAL:HG11	18:AR:72:ARG:NH1	2.06	0.69
12:AL:105:TYR:O	12:AL:107:ALA:N	2.25	0.69
22:B0:74:ARG:HH22	32:BB:13:A:H5'	1.56	0.69
31:BA:443:A:H1'	31:BA:1201:C:O4'	1.91	0.69
31:BA:1839:G:C8	31:BA:1927:A:H1'	2.27	0.69
31:BA:1956:U:H2'	31:BA:1957:C:H5'	1.74	0.69
31:BA:2059:A:O2'	35:BF:69:HIS:HD2	1.74	0.69
31:BA:2773:C:O2'	31:BA:2774:C:H5'	1.92	0.69
39:BN:115:ARG:HG3	39:BN:115:ARG:HH11	1.57	0.69
41:BP:88:LEU:C	41:BP:90:ARG:H	1.94	0.69
50:BY:15:VAL:HG12	50:BY:16:ALA:N	2.07	0.69
1:CA:857:C:H2'	1:CA:858:G:O4'	1.93	0.69
1:CA:1064:G:H5'	1:CA:1066:C:H1'	1.72	0.69
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.73	0.69
22:D0:28:GLY:HA2	22:D0:66:VAL:CG1	2.22	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:94:LEU:O	23:D1:95:LEU:HG	1.93	0.69
31:DA:494:G:OP1	48:DW:8:ARG:NH1	2.24	0.69
31:DA:527:C:N4	31:DA:2779:U:OP2	2.25	0.69
31:DA:2462:U:H1'	31:DA:2491:U:O4	1.93	0.69
31:DA:2599:G:OP2	33:DD:236:GLY:N	2.25	0.69
32:DB:6:C:O2'	44:DS:29:PHE:HE1	1.76	0.69
45:DT:25:GLY:O	45:DT:26:ASP:HB2	1.90	0.69
49:DX:53:LYS:H	49:DX:80:ILE:HG22	1.57	0.69
50:DY:76:CYS:CB	50:DY:77:PRO:HD2	2.22	0.69
1:AA:695:A:H61	1:AA:797:C:H1'	1.56	0.69
1:AA:749:C:O2'	1:AA:750:G:H5'	1.93	0.69
3:AC:71:ALA:HB2	3:AC:115:LEU:HD13	1.74	0.69
6:AF:39:LYS:HB3	6:AF:62:TRP:CZ3	2.28	0.69
22:B0:53:MET:HE3	22:B0:57:PHE:HA	1.74	0.69
31:BA:2756:U:H4'	31:BA:2757:A:OP1	1.91	0.69
32:BB:51:G:H5'	32:BB:52:A:OP2	1.91	0.69
34:BE:52:LEU:HD13	34:BE:76:ARG:HG2	1.74	0.69
41:BP:56:SER:O	41:BP:58:THR:N	2.24	0.69
41:BP:61:ARG:H	41:BP:61:ARG:CD	1.99	0.69
42:BQ:106:VAL:HG21	42:BQ:114:ALA:HB1	1.73	0.69
1:CA:192:U:H2'	1:CA:193:C:C6	2.24	0.69
1:CA:671:G:H2'	1:CA:672:U:H6	1.58	0.69
1:CA:783:C:C2'	1:CA:784:C:H5'	2.23	0.69
13:CM:23:TYR:HB3	13:CM:67:GLU:HB2	1.74	0.69
23:D1:16:ASN:HB3	23:D1:46:LEU:HG	1.73	0.69
31:DA:296:C:H2'	31:DA:297:C:H6	1.58	0.69
31:DA:1005:C:C2	31:DA:1143:A:C5	2.79	0.69
31:DA:1614:A:H61	48:DW:88:ARG:H	1.41	0.69
31:DA:1614:A:N6	48:DW:88:ARG:H	1.91	0.69
31:DA:2311:A:OP1	31:DA:2312:U:H5	1.75	0.69
31:DA:2580:U:H4'	34:DE:130:GLY:HA2	1.74	0.69
47:DV:39:LEU:O	47:DV:40:LEU:HB3	1.92	0.69
1:AA:139:G:H2'	1:AA:140:A:H8	1.56	0.69
1:AA:892:A:H2'	1:AA:893:C:C6	2.27	0.69
1:AA:1418:A:C2	31:BA:1948:G:N3	2.53	0.69
5:AE:101:ILE:HD11	5:AE:119:LEU:HA	1.75	0.69
8:AH:7:ALA:HB2	8:AH:85:ARG:HD2	1.73	0.69
18:AR:74:ARG:HE	18:AR:81:PHE:HA	1.58	0.69
30:B8:60:LEU:C	30:B8:63:PRO:HD2	2.12	0.69
31:BA:128:C:H6	31:BA:128:C:H5''	1.57	0.69
31:BA:247:G:H4'	31:BA:386:G:C5	2.27	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1280:G:H2'	31:BA:1281:G:H5''	1.75	0.69
31:BA:2252:G:H2'	31:BA:2253:G:C8	2.28	0.69
31:BA:2261:C:O2'	31:BA:2262:U:H5'	1.93	0.69
32:BB:65:C:H41	32:BB:109:C:H2'	1.56	0.69
33:BD:35:LYS:CE	33:BD:104:TYR:HB2	2.22	0.69
33:BD:228:PRO:HD3	33:BD:235:GLY:HA3	1.73	0.69
36:BG:15:VAL:O	36:BG:19:LEU:HG	1.92	0.69
39:BN:65:LYS:CD	39:BN:67:LEU:HB2	2.22	0.69
48:BW:9:TYR:H	48:BW:102:HIS:HD2	1.41	0.69
1:CA:586:C:C2'	1:CA:587:G:H5'	2.21	0.69
1:CA:735:C:O2'	1:CA:736:C:H5'	1.92	0.69
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB3	1.74	0.69
12:CL:32:PHE:CD1	12:CL:86:ARG:HA	2.26	0.69
17:CQ:67:LYS:HA	17:CQ:70:ARG:NH1	2.06	0.69
31:DA:11:G:C2'	31:DA:12:U:H5'	2.22	0.69
31:DA:141:A:H8	31:DA:1408:C:O2'	1.71	0.69
31:DA:806:C:OP2	41:DP:39:LYS:CD	2.38	0.69
31:DA:1141:U:OP1	39:DN:25:ARG:NH1	2.25	0.69
31:DA:2267:A:H5''	31:DA:2268:A:H5'	1.74	0.69
31:DA:2377:A:H4'	44:DS:107:GLU:CG	2.23	0.69
31:DA:2463:C:H2'	31:DA:2464:C:H5'	1.72	0.69
31:DA:2611:U:H5'	31:DA:2611:U:C6	2.28	0.69
31:DA:2773:C:O2'	31:DA:2774:C:H5'	1.93	0.69
32:DB:6:C:HO2'	44:DS:29:PHE:HE1	1.39	0.69
32:DB:94:C:H2'	32:DB:95:C:C6	2.27	0.69
38:DI:4:ILE:HG12	38:DI:39:ALA:HB2	1.74	0.69
42:DQ:37:LEU:HB2	42:DQ:128:LYS:O	1.92	0.69
42:DQ:132:VAL:HG11	51:DZ:81:ARG:HD2	1.73	0.69
43:DR:8:ARG:HA	43:DR:8:ARG:NE	2.07	0.69
47:DV:72:VAL:HA	47:DV:88:ARG:NH1	2.06	0.69
1:AA:663:A:C2'	1:AA:664:G:H5'	2.23	0.69
4:AD:14:ARG:H	4:AD:40:PRO:HD3	1.57	0.69
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.74	0.69
7:AG:70:LYS:HB3	7:AG:96:GLN:OE1	1.93	0.69
18:AR:31:LEU:HD12	18:AR:65:ILE:HD11	1.73	0.69
30:B8:35:GLN:HE21	30:B8:36:LYS:NZ	1.81	0.69
31:BA:90:U:H2'	31:BA:90:U:O2	1.92	0.69
31:BA:139(A):G:N2	49:BX:44:GLU:OE1	2.24	0.69
31:BA:779:U:OP1	33:BD:49:ILE:HG13	1.93	0.69
31:BA:993:G:N3	47:BV:91:TYR:CE1	2.61	0.69
31:BA:1037:G:H1	31:BA:1118:C:H42	1.40	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1410:G:H1	31:BA:1592:C:N4	1.89	0.69
45:BT:24:PRO:HA	45:BT:49:VAL:O	1.92	0.69
49:BX:55:ASN:HB2	49:BX:78:LYS:CD	2.22	0.69
51:BZ:130:PRO:HA	51:BZ:133:ILE:CD1	2.22	0.69
1:CA:1308:U:H5''	13:CM:98:VAL:N	2.08	0.69
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.74	0.69
15:CO:23:GLY:O	15:CO:24:SER:HB3	1.91	0.69
24:D2:48:HIS:NE2	31:DA:75:G:O3'	2.23	0.69
31:DA:191:A:O2'	31:DA:192:C:H5'	1.92	0.69
31:DA:1410:G:H1	31:DA:1592:C:N4	1.89	0.69
31:DA:2316:C:H2'	31:DA:2317:C:H6	1.55	0.69
34:DE:48:GLN:HE22	34:DE:64:LYS:NZ	1.91	0.69
34:DE:52:LEU:HD13	34:DE:76:ARG:HG2	1.74	0.69
34:DE:93:VAL:H	34:DE:95:ILE:CD1	2.04	0.69
39:DN:65:LYS:CD	39:DN:67:LEU:HB2	2.21	0.69
41:DP:35:HIS:CD2	41:DP:35:HIS:O	2.46	0.69
42:DQ:20:ALA:CB	42:DQ:99:PRO:HG2	2.23	0.69
1:AA:41:G:H2'	1:AA:42:G:H8	1.57	0.69
1:AA:376:G:OP2	16:AP:67:THR:HG21	1.93	0.69
1:AA:735:C:O2'	1:AA:736:C:H5'	1.93	0.69
1:AA:771:G:O2'	1:AA:772:U:H5'	1.91	0.69
1:AA:921:U:C2	1:AA:922:G:C8	2.80	0.69
25:B3:11:SER:OG	25:B3:13:ILE:HG12	1.92	0.69
31:BA:693:C:O2'	31:BA:694:U:H5'	1.93	0.69
31:BA:755:C:H2'	31:BA:756:C:C6	2.28	0.69
31:BA:848:G:H5'	31:BA:848:G:H8	1.57	0.69
31:BA:864:G:C6	31:BA:865:C:N4	2.61	0.69
31:BA:1286:A:O2'	31:BA:1288:U:P	2.51	0.69
31:BA:1956:U:C2'	31:BA:1957:C:H5'	2.23	0.69
31:BA:2471:C:H3'	31:BA:2472:G:H5''	1.75	0.69
32:BB:55:U:OP2	32:BB:55:U:H6	1.76	0.69
33:BD:94:LEU:C	33:BD:94:LEU:HD22	2.13	0.69
34:BE:201:THR:HG22	34:BE:202:LYS:H	1.58	0.69
39:BN:56:ASN:N	39:BN:125:GLY:HA3	2.04	0.69
44:BS:54:LEU:HD21	44:BS:59:LYS:O	1.93	0.69
51:BZ:73:GLN:HG2	51:BZ:87:ASP:OD1	1.93	0.69
1:CA:922:G:H5''	1:CA:923:A:OP1	1.93	0.69
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	1.93	0.69
22:D0:20:ARG:NE	31:DA:2271:G:H5''	2.08	0.69
27:D5:16:ARG:HH11	27:D5:16:ARG:CG	2.04	0.69
27:D5:32:PRO:O	27:D5:33:CYS:HB3	1.93	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:47:PRO:O	27:D5:48:GLU:HG3	1.91	0.69
28:D6:16:CYS:SG	28:D6:48:VAL:HG13	2.33	0.69
31:DA:128:C:H6	31:DA:128:C:H5''	1.58	0.69
31:DA:1245:G:OP1	41:DP:16:ARG:HD2	1.91	0.69
31:DA:1503:U:H2'	31:DA:1504:C:C5	2.27	0.69
31:DA:1803:A:O3'	33:DD:259:THR:CG2	2.41	0.69
31:DA:1889:A:N1	31:DA:2234:G:H1'	2.08	0.69
31:DA:2720:U:H2'	31:DA:2720:U:O2	1.93	0.69
36:DG:5:VAL:HG21	36:DG:101:ILE:HB	1.75	0.69
41:DP:56:SER:O	41:DP:58:THR:N	2.26	0.69
41:DP:61:ARG:H	41:DP:61:ARG:CD	2.03	0.69
41:DP:97:PRO:HD3	41:DP:126:VAL:O	1.92	0.69
43:DR:100:LEU:HD21	43:DR:113:LEU:HD13	1.74	0.69
45:DT:51:ARG:HG3	45:DT:98:LYS:HE3	1.74	0.69
45:DT:98:LYS:HB3	45:DT:100:TYR:CE1	2.27	0.69
47:DV:14:VAL:HG12	47:DV:98:GLU:HG3	1.73	0.69
49:DX:60:ARG:HB2	49:DX:73:ARG:N	2.08	0.69
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.75	0.69
3:AC:152:ILE:HB	3:AC:199:LYS:HB2	1.74	0.69
8:AH:54:ASP:O	8:AH:56:LYS:HG3	1.93	0.69
8:AH:77:GLU:HG3	8:AH:78:GLN:H	1.58	0.69
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.74	0.69
23:B1:67:ILE:N	23:B1:68:PRO:HD2	2.07	0.69
31:BA:586:A:N1	31:BA:809:G:O2'	2.24	0.69
31:BA:2282:G:H4'	31:BA:2283:C:O5'	1.92	0.69
33:BD:62:TYR:CE1	33:BD:64:ILE:HA	2.28	0.69
42:BQ:132:VAL:HG11	51:BZ:81:ARG:HD2	1.72	0.69
47:BV:66:ARG:CD	47:BV:94:LEU:HG	2.23	0.69
51:BZ:40:ASP:HB3	51:BZ:43:GLU:HB2	1.73	0.69
1:CA:272:C:H2'	1:CA:273:A:C8	2.28	0.69
1:CA:341:C:O2'	1:CA:342:C:H5'	1.92	0.69
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.28	0.69
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.19	0.69
6:CF:39:LYS:HB3	6:CF:62:TRP:CZ3	2.27	0.69
11:CK:38:ASN:N	11:CK:38:ASN:HD22	1.91	0.69
30:D8:6:THR:CG2	30:D8:63:PRO:HD3	2.22	0.69
31:DA:288:C:N4	31:DA:353:G:H1	1.90	0.69
31:DA:753:C:H6	31:DA:753:C:O5'	1.75	0.69
31:DA:1037:G:H1	31:DA:1118:C:N4	1.90	0.69
31:DA:1286:A:O2'	31:DA:1288:U:P	2.51	0.69
31:DA:1430:C:H2'	31:DA:1431:U:H6	1.58	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2747:G:O6	31:DA:2755:C:H5''	1.93	0.69
31:DA:2869:G:H2'	31:DA:2870:C:O4'	1.93	0.69
32:DB:58:A:N3	32:DB:58:A:H2'	2.07	0.69
34:DE:32:PRO:O	34:DE:34:VAL:HG12	1.93	0.69
34:DE:132:HIS:CD2	34:DE:135:HIS:NE2	2.60	0.69
35:DF:184:TYR:O	35:DF:188:ARG:HG3	1.93	0.69
37:DH:149:ARG:HD3	37:DH:164:TYR:HE1	1.58	0.69
38:DI:120:ILE:HD11	38:DI:140:LEU:HD23	1.75	0.69
42:DQ:27:VAL:HA	42:DQ:105:GLU:OE1	1.92	0.69
44:DS:38:GLN:CG	44:DS:47:THR:HG21	2.22	0.69
1:AA:116:A:OP2	1:AA:116:A:C8	2.46	0.69
1:AA:921:U:N3	1:AA:922:G:N7	2.41	0.69
1:AA:1132:C:H2'	1:AA:1133:G:O4'	1.93	0.69
2:AB:74:LYS:NZ	2:AB:76:GLN:HB2	2.07	0.69
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.58	0.69
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.72	0.69
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB3	1.75	0.69
12:AL:32:PHE:CD1	12:AL:86:ARG:HA	2.26	0.69
13:AM:23:TYR:HB3	13:AM:67:GLU:HB2	1.74	0.69
23:B1:33:LYS:C	23:B1:34:THR:HG22	2.13	0.69
31:BA:1300:U:H1'	31:BA:1626:G:C2	2.28	0.69
31:BA:1490:A:H5'	31:BA:1491:G:OP2	1.93	0.69
31:BA:1722:A:H2	31:BA:1740:G:C5'	1.98	0.69
31:BA:1812:A:C2	31:BA:1813:G:C4	2.81	0.69
31:BA:2243:U:H2'	31:BA:2244:U:C6	2.28	0.69
31:BA:2470:G:N1	31:BA:2471:C:C5	2.61	0.69
31:BA:2762:G:H2'	31:BA:2763:G:H5'	1.74	0.69
34:BE:16:ARG:O	34:BE:18:ASP:N	2.26	0.69
37:BH:52:VAL:HG11	37:BH:69:ARG:HG3	1.75	0.69
38:BI:78:THR:HA	38:BI:141:LYS:O	1.93	0.69
43:BR:44:LEU:HD22	43:BR:44:LEU:O	1.92	0.69
43:BR:53:HIS:HD2	43:BR:94:TYR:OH	1.74	0.69
45:BT:30:VAL:HG21	45:BT:83:ILE:CG1	2.22	0.69
46:BU:91:ASP:OD2	46:BU:96:ALA:HB2	1.93	0.69
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.25	0.69
1:CA:539:A:H2'	1:CA:540:G:H8	1.56	0.69
1:CA:625:G:H2'	1:CA:626:U:H6	1.57	0.69
1:CA:1201:A:H1'	1:CA:1202:G:OP2	1.93	0.69
4:CD:14:ARG:H	4:CD:40:PRO:HD3	1.58	0.69
8:CH:1:MET:HE2	8:CH:1:MET:N	2.08	0.69
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.75	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:26:ARG:HD3	16:CP:31:LYS:O	1.93	0.69
31:DA:1151:G:H5''	46:DU:81:HIS:CE1	2.28	0.69
33:DD:35:LYS:HG2	33:DD:64:ILE:N	2.08	0.69
36:DG:64:THR:HG23	36:DG:65:GLY:H	1.57	0.69
40:DO:114:ILE:HD13	40:DO:114:ILE:N	2.07	0.69
43:DR:29:LEU:HB3	43:DR:75:LEU:HD11	1.73	0.69
45:DT:35:LYS:HG3	45:DT:36:GLU:HB2	1.75	0.69
50:DY:30:VAL:HG12	50:DY:31:LEU:N	2.06	0.69
51:DZ:73:GLN:HG2	51:DZ:87:ASP:OD1	1.93	0.69
1:AA:1320:C:H5'	19:AS:70:LYS:CG	2.21	0.68
3:AC:81:GLY:O	3:AC:85:ARG:HB2	1.94	0.68
11:AK:99:GLN:O	11:AK:101:SER:N	2.23	0.68
16:AP:26:ARG:HD3	16:AP:31:LYS:O	1.93	0.68
31:BA:141:A:H8	31:BA:1408:C:O2'	1.75	0.68
31:BA:1022:G:N2	31:BA:1142(A):A:H2	1.89	0.68
31:BA:2880:C:H1'	43:BR:92:GLY:O	1.93	0.68
42:BQ:75:THR:CA	42:BQ:88:GLY:HA2	2.22	0.68
1:CA:15:G:N1	1:CA:922:G:C2	2.60	0.68
1:CA:926:G:C6	1:CA:1505:G:C6	2.80	0.68
6:CF:96:PRO:HA	18:CR:32:ARG:HG2	1.75	0.68
11:CK:29:ILE:HG13	11:CK:43:SER:O	1.93	0.68
19:CS:40:ILE:HD13	19:CS:62:ILE:HD11	1.74	0.68
30:D8:12:LYS:HE3	31:DA:247:G:O6	1.93	0.68
31:DA:1319:G:C6	31:DA:1320:C:N4	2.61	0.68
35:DF:28:ILE:HD12	35:DF:28:ILE:H	1.58	0.68
38:DI:76:THR:HG22	38:DI:139:GLN:HB3	1.74	0.68
42:DQ:39:PRO:HA	42:DQ:97:VAL:O	1.93	0.68
42:DQ:140:ALA:H	51:DZ:53:ILE:HD12	1.57	0.68
49:DX:30:VAL:HG23	49:DX:76:ARG:HA	1.75	0.68
51:DZ:128:VAL:HG22	51:DZ:161:VAL:HG22	1.75	0.68
1:AA:59:A:H2'	1:AA:59:A:N3	2.08	0.68
1:AA:272:C:H2'	1:AA:273:A:C8	2.28	0.68
1:AA:818:G:H3'	1:AA:819:A:H5'	1.74	0.68
1:AA:983:A:H3'	1:AA:983:A:N3	2.08	0.68
24:B2:26:ARG:HG2	49:BX:5:TYR:HB3	1.74	0.68
30:B8:12:LYS:HE3	31:BA:247:G:O6	1.93	0.68
31:BA:1448:G:H5'	31:BA:1449:A:OP1	1.92	0.68
31:BA:1509(B):A:H3'	31:BA:1510:G:H8	1.57	0.68
31:BA:1833:U:O2'	31:BA:1969:A:N1	2.22	0.68
31:BA:2307:G:N2	31:BA:2308:G:H5'	2.07	0.68
31:BA:2809:A:C2	31:BA:2892:A:N3	2.62	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:118:LYS:O	34:BE:160:TYR:HE1	1.75	0.68
44:BS:28:VAL:HG11	44:BS:97:ARG:NH1	2.08	0.68
1:CA:139:G:H2'	1:CA:140:A:H8	1.57	0.68
1:CA:1066:C:H5'	1:CA:1067:A:OP2	1.94	0.68
1:CA:1372:U:H5''	9:CI:71:SER:HB3	1.75	0.68
4:CD:117:ALA:O	4:CD:121:VAL:HG23	1.93	0.68
11:CK:18:ARG:HH21	11:CK:37:GLY:HA2	1.58	0.68
23:D1:10:LYS:HG2	23:D1:11:ARG:N	2.08	0.68
25:D3:46:ASN:O	25:D3:50:VAL:HG22	1.93	0.68
31:DA:106:C:H1'	50:DY:2:ARG:HE	1.58	0.68
31:DA:322:A:H5'	31:DA:340:A:C1'	2.23	0.68
31:DA:330:A:H2	31:DA:1210:A:HO2'	1.39	0.68
31:DA:481:G:OP1	31:DA:481:G:H4'	1.93	0.68
31:DA:1163:G:O2'	31:DA:1164:G:H5'	1.92	0.68
31:DA:1504:C:O2'	31:DA:1505:C:H5'	1.94	0.68
31:DA:1690:A:H3'	31:DA:1691:C:C6	2.24	0.68
31:DA:1843:C:H5'	33:DD:253:GLN:OE1	1.93	0.68
31:DA:2099:U:O2	31:DA:2099:U:H2'	1.90	0.68
31:DA:2475:C:H5''	31:DA:2476:A:OP2	1.93	0.68
31:DA:2536:G:C5	31:DA:2537:U:C5	2.81	0.68
37:DH:86:GLU:HB3	37:DH:132:ARG:HG2	1.76	0.68
37:DH:126:PRO:CG	37:DH:130:ARG:HB3	2.23	0.68
41:DP:15:ARG:HG2	41:DP:17:LYS:HD2	1.74	0.68
50:DY:2:ARG:C	50:DY:4:LYS:H	1.94	0.68
50:DY:2:ARG:O	50:DY:4:LYS:N	2.25	0.68
1:AA:62:U:H5''	1:AA:385:C:O2	1.92	0.68
1:AA:160:A:H1'	1:AA:344:A:C8	2.27	0.68
1:AA:663:A:O2'	1:AA:664:G:H5'	1.92	0.68
1:AA:948:C:OP1	13:AM:107:ALA:HA	1.94	0.68
13:AM:44:ARG:CB	13:AM:46:LYS:HG2	2.24	0.68
23:B1:42:GLN:HG2	23:B1:43:TYR:H	1.55	0.68
23:B1:87:PRO:HD2	23:B1:88:LYS:H	1.58	0.68
25:B3:7:LYS:O	25:B3:9:VAL:HG13	1.93	0.68
31:BA:71:A:H8	31:BA:71:A:C5'	2.03	0.68
31:BA:774:A:C2	31:BA:787:U:O2'	2.37	0.68
31:BA:1945:G:H2'	31:BA:1946:U:H5'	1.76	0.68
33:BD:92:ILE:HD13	33:BD:104:TYR:CD2	2.28	0.68
35:BF:156:LEU:HD21	35:BF:163:VAL:HG12	1.73	0.68
37:BH:85:LYS:CD	37:BH:133:VAL:HB	2.22	0.68
1:CA:619:U:H2'	4:CD:135:LEU:CD2	2.23	0.68
1:CA:1320:C:H5'	19:CS:70:LYS:CG	2.22	0.68

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:32:ARG:H	22:D0:35:ASN:HD21	1.40	0.68
26:D4:25:TYR:HA	36:DG:109:VAL:CG2	2.20	0.68
31:DA:1505:C:H3'	31:DA:1505:C:H6	1.58	0.68
31:DA:1899:G:N2	31:DA:1902:C:H5	1.90	0.68
31:DA:2029:G:H2'	31:DA:2031:A:OP2	1.93	0.68
31:DA:2287:A:C2	31:DA:2289:G:N9	2.61	0.68
31:DA:2476:A:C5	31:DA:2477:C:C5	2.81	0.68
31:DA:2723:C:H5''	43:DR:2:ARG:HD3	1.74	0.68
34:DE:134:ILE:HD13	34:DE:134:ILE:N	2.07	0.68
38:DI:72:LEU:HD12	38:DI:138:ILE:HG23	1.76	0.68
1:AA:122:G:H2'	1:AA:123:C:O4'	1.94	0.68
16:AP:51:VAL:CG1	16:AP:52:ASP:N	2.56	0.68
24:B2:14:ARG:CZ	24:B2:15:LYS:H	2.05	0.68
28:B6:16:CYS:O	28:B6:17:LYS:HB2	1.92	0.68
28:B6:16:CYS:SG	28:B6:48:VAL:HG13	2.33	0.68
31:BA:775:G:C4	31:BA:794:G:C8	2.80	0.68
35:BF:63:LYS:HZ1	35:BF:67:GLN:HB2	1.58	0.68
46:BU:61:TRP:O	46:BU:62:ILE:C	2.30	0.68
1:CA:407:G:OP1	4:CD:115:ARG:HD2	1.93	0.68
1:CA:665:A:H2'	1:CA:732:C:O2	1.92	0.68
1:CA:801:U:H2'	1:CA:802:A:H8	1.58	0.68
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.73	0.68
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.14	0.68
31:DA:90:U:O2	31:DA:90:U:H2'	1.93	0.68
31:DA:229:A:C5'	31:DA:230:U:H5'	2.20	0.68
31:DA:476:G:H4'	31:DA:502:A:N1	2.09	0.68
31:DA:603:A:H4'	31:DA:604:G:O5'	1.94	0.68
31:DA:613:G:N2	31:DA:614(C):A:O2'	2.26	0.68
31:DA:807:U:H2'	31:DA:808:G:O5'	1.93	0.68
31:DA:892:G:H3'	31:DA:892:G:N3	2.07	0.68
31:DA:1778:U:H2'	31:DA:1784:A:C6	2.28	0.68
31:DA:2068:U:C2	31:DA:2430:A:H2	2.12	0.68
31:DA:2272:U:H5''	31:DA:2273:A:OP1	1.92	0.68
31:DA:2864:G:H2'	31:DA:2865:U:O4'	1.94	0.68
45:DT:32:TYR:CD2	45:DT:81:PRO:O	2.47	0.68
1:AA:46:G:O2'	1:AA:365:U:H1'	1.93	0.68
1:AA:392:G:H2'	1:AA:393:A:H8	1.59	0.68
1:AA:702:A:H3'	1:AA:703:G:C5'	2.24	0.68
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.29	0.68
1:AA:1376:U:O2'	1:AA:1377:A:H5'	1.93	0.68
31:BA:601:C:H1'	31:BA:605:C:H5''	1.75	0.68

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:610:G:H2'	31:BA:611:C:C6	2.29	0.68
31:BA:1359:A:C8	31:BA:1372:U:O4	2.46	0.68
31:BA:1490:A:C2	33:BD:75:ILE:HD13	2.29	0.68
38:BI:54:GLN:HA	38:BI:57:ARG:HH12	1.57	0.68
41:BP:40:SER:O	41:BP:41:ARG:HD2	1.94	0.68
42:BQ:8:LYS:CG	42:BQ:9:TYR:H	2.05	0.68
42:BQ:32:TYR:CE2	42:BQ:133:ARG:HG2	2.29	0.68
1:CA:62:U:H5''	1:CA:385:C:O2	1.94	0.68
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.58	0.68
5:CE:101:ILE:HD11	5:CE:119:LEU:HA	1.75	0.68
8:CH:86:ILE:HG21	8:CH:133:LEU:HD12	1.74	0.68
15:CO:63:ARG:HG2	15:CO:67:LEU:HD12	1.76	0.68
23:D1:42:GLN:HG2	23:D1:43:TYR:H	1.59	0.68
31:DA:972:G:OP2	31:DA:974:G:H5''	1.93	0.68
31:DA:1544:A:N3	31:DA:1544:A:O3'	2.26	0.68
31:DA:2470:G:N1	31:DA:2471:C:C5	2.62	0.68
51:DZ:39:VAL:CG2	51:DZ:44:PHE:HB2	2.23	0.68
1:AA:78:G:H1	1:AA:91:C:H42	1.40	0.68
1:AA:518:C:H4'	1:AA:519:C:H5''	1.74	0.68
1:AA:556:C:O2'	1:AA:557:G:H5'	1.93	0.68
1:AA:1201:A:H1'	1:AA:1202:G:OP2	1.93	0.68
15:AO:36:ILE:HD12	15:AO:63:ARG:HD3	1.76	0.68
20:AT:97:ALA:O	20:AT:99:LEU:N	2.27	0.68
23:B1:11:ARG:HH11	23:B1:91:LYS:HZ3	1.42	0.68
31:BA:322:A:H5'	31:BA:340:A:C1'	2.24	0.68
31:BA:993:G:H5''	47:BV:75:PHE:CE2	2.29	0.68
31:BA:1245:G:H5''	41:BP:16:ARG:HH21	1.59	0.68
31:BA:1826:G:H4'	33:BD:242:ARG:NH2	2.04	0.68
31:BA:1887:C:C2'	31:BA:1888:G:H5'	2.24	0.68
31:BA:1922:G:H2'	31:BA:1923:U:H6	1.58	0.68
31:BA:2476:A:C5	31:BA:2477:C:C5	2.81	0.68
32:BB:74:U:C3'	32:BB:75:G:H5''	2.24	0.68
33:BD:130:ALA:C	33:BD:131:LEU:HD12	2.14	0.68
39:BN:20:GLY:O	39:BN:61:ARG:HG3	1.94	0.68
39:BN:78:TYR:CD1	39:BN:79:PRO:HB3	2.29	0.68
44:BS:36:TYR:CD1	44:BS:36:TYR:N	2.62	0.68
45:BT:99:LEU:HB2	45:BT:101:PHE:CE1	2.28	0.68
47:BV:25:LEU:HG	47:BV:94:LEU:HD13	1.76	0.68
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.29	0.68
27:D5:2:ALA:N	31:DA:747:U:C4	2.61	0.68
33:DD:253:GLN:HB3	33:DD:255:LYS:NZ	2.09	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:201:THR:HG22	34:DE:202:LYS:H	1.58	0.68
35:DF:63:LYS:HZ1	35:DF:67:GLN:HB2	1.58	0.68
41:DP:92:GLU:HA	41:DP:123:LEU:HD22	1.73	0.68
43:DR:71:GLN:HA	43:DR:71:GLN:NE2	2.08	0.68
1:AA:377:G:OP1	16:AP:3:LYS:HD2	1.92	0.68
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.74	0.68
4:AD:79:PHE:CD1	4:AD:207:TYR:HD1	2.12	0.68
23:B1:25:LYS:C	23:B1:26:ARG:HG3	2.14	0.68
31:BA:607:U:N3	31:BA:621:A:C2	2.58	0.68
31:BA:922:U:H2'	31:BA:923:C:C6	2.28	0.68
33:BD:246:PRO:HB2	33:BD:255:LYS:HG3	1.75	0.68
1:CA:543:C:C2'	1:CA:544:G:H5'	2.24	0.68
1:CA:983:A:H3'	1:CA:983:A:N3	2.09	0.68
4:CD:110:PHE:HZ	4:CD:183:GLY:H	1.42	0.68
8:CH:77:GLU:HG3	8:CH:78:GLN:H	1.58	0.68
31:DA:70:G:H21	31:DA:71:A:H62	1.40	0.68
31:DA:543:C:C6	31:DA:547:A:N7	2.62	0.68
31:DA:571:A:C5'	31:DA:2030:A:H62	1.93	0.68
31:DA:811:U:O5'	41:DP:25:SER:O	2.11	0.68
31:DA:848:G:N3	31:DA:933:A:H1'	2.09	0.68
31:DA:1372:U:H2'	31:DA:1373:A:O4'	1.93	0.68
31:DA:1388:G:C2'	31:DA:1389:G:H5'	2.22	0.68
31:DA:1543:C:OP2	31:DA:1543:C:C6	2.46	0.68
31:DA:2391:G:O6	31:DA:2425:A:H8	1.77	0.68
31:DA:2406:U:O4	41:DP:70:GLN:HB3	1.94	0.68
38:DI:78:THR:HA	38:DI:141:LYS:O	1.94	0.68
44:DS:42:ASP:O	44:DS:43:GLU:HB2	1.94	0.68
1:AA:575:G:H4'	1:AA:576:G:OP1	1.93	0.68
1:AA:581:G:N2	1:AA:582:U:C4	2.62	0.68
1:AA:715:A:H2'	1:AA:716:A:C8	2.29	0.68
1:AA:1438:G:H2'	1:AA:1439:C:H6	1.59	0.68
8:AH:51:VAL:HG11	8:AH:60:ARG:HG3	1.74	0.68
8:AH:110:ALA:HB1	8:AH:133:LEU:HD21	1.74	0.68
22:B0:77:ARG:NH2	31:BA:857:C:OP2	2.27	0.68
24:B2:15:LYS:O	24:B2:16:LEU:CB	2.42	0.68
24:B2:29:LYS:NZ	49:BX:9:LEU:HA	2.08	0.68
31:BA:80:G:C2'	31:BA:81:G:H5'	2.24	0.68
31:BA:613:G:N2	31:BA:614(C):A:O2'	2.27	0.68
31:BA:671:C:H41	41:BP:42:SER:HA	1.56	0.68
31:BA:1341:U:C2	49:BX:77:LYS:HE2	2.29	0.68
31:BA:1981:A:H5''	31:BA:1982:C:OP2	1.93	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2347:C:H2'	31:BA:2348:U:C6	2.29	0.68
31:BA:2821:A:C2	31:BA:2822:G:C4	2.82	0.68
37:BH:41:MET:HG3	37:BH:54:ARG:HA	1.75	0.68
1:CA:376:G:H5''	16:CP:5:ARG:HB2	1.76	0.68
1:CA:392:G:H2'	1:CA:393:A:C8	2.28	0.68
1:CA:1066:C:N4	1:CA:1191:A:N7	2.42	0.68
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.27	0.68
2:CB:212:GLN:NE2	2:CB:235:SER:HB3	2.08	0.68
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.76	0.68
12:CL:105:TYR:O	12:CL:107:ALA:N	2.26	0.68
22:D0:77:ARG:NH2	31:DA:857:C:OP2	2.27	0.68
28:D6:48:VAL:HG22	28:D6:49:HIS:N	2.09	0.68
31:DA:817:C:H2'	31:DA:818:G:C8	2.29	0.68
31:DA:922:U:H2'	31:DA:923:C:C6	2.29	0.68
31:DA:2069:G:C2'	31:DA:2070:G:H5'	2.24	0.68
31:DA:2275:C:HO2'	42:DQ:83:MET:HA	1.56	0.68
31:DA:2537:U:H2'	31:DA:2538:C:C6	2.29	0.68
32:DB:38:C:H4'	44:DS:95:HIS:CE1	2.29	0.68
40:DO:10:VAL:O	40:DO:10:VAL:HG23	1.93	0.68
43:DR:103:ARG:HD3	43:DR:108:GLY:O	1.93	0.68
3:AC:32:LEU:HD22	3:AC:59:ARG:NH1	2.09	0.68
7:AG:15:ASP:H	7:AG:20:ASP:H	1.41	0.68
31:BA:574:C:N3	34:BE:145:LYS:HE2	2.08	0.68
31:BA:607:U:O2	31:BA:621:A:N1	2.27	0.68
31:BA:1485:G:N2	31:BA:1505:C:C5	2.62	0.68
31:BA:2544:G:H1'	31:BA:2646:C:H4'	1.76	0.68
31:BA:2652:C:H2'	31:BA:2653:U:H5'	1.73	0.68
31:BA:2660:A:C5'	31:BA:2661:G:H21	2.06	0.68
31:BA:2723:C:H5''	43:BR:2:ARG:HD2	1.74	0.68
36:BG:32:PRO:HB3	36:BG:163:ALA:HB2	1.76	0.68
36:BG:111:LEU:HD23	36:BG:114:ILE:CD1	2.24	0.68
37:BH:153:LYS:HD3	37:BH:153:LYS:H	1.58	0.68
45:BT:28:VAL:HG22	45:BT:46:GLU:CA	2.23	0.68
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.28	0.68
2:CB:74:LYS:NZ	2:CB:76:GLN:HB2	2.09	0.68
3:CC:81:GLY:O	3:CC:85:ARG:HB2	1.94	0.68
27:D5:33:CYS:SG	27:D5:49:CYS:CB	2.82	0.68
28:D6:10:LEU:CD1	30:D8:35:GLN:HE22	2.04	0.68
28:D6:16:CYS:O	28:D6:17:LYS:HB2	1.94	0.68
31:DA:719:C:O2'	31:DA:720:C:H5'	1.94	0.68
31:DA:836:G:H2'	31:DA:837:C:C6	2.28	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1568:G:N2	33:DD:58:HIS:CE1	2.61	0.68
31:DA:2470:G:C2	31:DA:2471:C:C6	2.82	0.68
31:DA:2593:U:H2'	31:DA:2594:C:C6	2.29	0.68
31:DA:2660:A:H5''	31:DA:2661:G:H21	1.59	0.68
37:DH:116:GLU:HG2	37:DH:117:PRO:HD2	1.76	0.68
41:DP:107:LYS:C	41:DP:109:GLY:H	1.97	0.68
44:DS:54:LEU:HD21	44:DS:59:LYS:O	1.94	0.68
47:DV:71:LEU:CD1	47:DV:72:VAL:H	2.02	0.68
50:DY:45:VAL:HG13	50:DY:62:GLU:OE2	1.94	0.68
1:AA:539:A:H2'	1:AA:540:G:H8	1.58	0.68
1:AA:1438:G:H2'	1:AA:1439:C:C6	2.28	0.68
8:AH:28:ALA:HA	8:AH:59:LEU:HG	1.74	0.68
27:B5:16:ARG:HG2	27:B5:16:ARG:NH1	1.99	0.68
30:B8:62:LEU:CD1	31:BA:242:G:H5''	2.17	0.68
31:BA:1790:C:O2'	33:BD:209:ALA:HB2	1.94	0.68
32:BB:24:G:C2	32:BB:56:G:N2	2.62	0.68
37:BH:66:GLY:CA	37:BH:69:ARG:HB2	2.24	0.68
38:BI:76:THR:HG22	38:BI:139:GLN:HB3	1.76	0.68
39:BN:51:PHE:CE2	39:BN:119:ARG:HD3	2.29	0.68
41:BP:97:PRO:O	41:BP:98:GLU:HB3	1.92	0.68
43:BR:8:ARG:NE	43:BR:8:ARG:HA	2.09	0.68
47:BV:90:PRO:HD2	47:BV:91:TYR:H	1.58	0.68
2:CB:187:LEU:HD11	2:CB:204:ASN:O	1.94	0.68
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.59	0.68
6:CF:79:LEU:HB2	6:CF:88:VAL:HG21	1.76	0.68
8:CH:7:ALA:HB2	8:CH:85:ARG:HD2	1.74	0.68
24:D2:15:LYS:O	24:D2:16:LEU:CB	2.42	0.68
31:DA:542:C:N4	31:DA:543:C:H42	1.91	0.68
31:DA:542:C:H2'	31:DA:543:C:OP1	1.94	0.68
31:DA:588:U:H2'	31:DA:589:C:C6	2.29	0.68
31:DA:755:C:H2'	31:DA:756:C:H6	1.57	0.68
31:DA:1359:A:C8	31:DA:1372:U:O4	2.46	0.68
31:DA:1473:G:H5''	31:DA:1474:C:OP2	1.94	0.68
31:DA:2096:U:H3	31:DA:2193:G:H1	1.40	0.68
31:DA:2306:C:H5''	31:DA:2307:G:O4'	1.94	0.68
31:DA:2859:G:H3'	31:DA:2859:G:C8	2.29	0.68
33:DD:27:THR:CG2	33:DD:28:GLU:N	2.51	0.68
39:DN:112:LEU:HD12	39:DN:112:LEU:C	2.14	0.68
47:DV:66:ARG:CD	47:DV:94:LEU:HG	2.23	0.68
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.27	0.67
1:AA:949:A:H61	1:AA:1232:U:H3	1.42	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	1.93	0.67
2:AB:71:VAL:HG13	2:AB:93:VAL:HB	1.77	0.67
9:AI:96:LEU:HG	9:AI:102:LEU:HB2	1.76	0.67
16:AP:45:THR:HG22	16:AP:47:ASP:H	1.58	0.67
23:B1:16:ASN:HB3	23:B1:46:LEU:HG	1.75	0.67
23:B1:20:ARG:HG2	23:B1:20:ARG:HH21	1.57	0.67
23:B1:87:PRO:HB2	23:B1:91:LYS:NZ	2.09	0.67
31:BA:747:U:O2	31:BA:2014:A:H1'	1.94	0.67
31:BA:1952:A:C2	40:BO:22:ILE:HG13	2.29	0.67
34:BE:48:GLN:NE2	34:BE:78:LEU:HD13	2.09	0.67
35:BF:184:TYR:O	35:BF:188:ARG:HG3	1.94	0.67
39:BN:18:ALA:CB	39:BN:26:LEU:HD22	2.24	0.67
39:BN:78:TYR:N	39:BN:79:PRO:HD3	2.09	0.67
42:BQ:7:MET:O	42:BQ:10:ARG:NE	2.27	0.67
45:BT:90:GLN:HG2	45:BT:120:ARG:NH1	2.09	0.67
49:BX:60:ARG:HE	49:BX:74:PRO:CG	2.06	0.67
1:CA:38:G:C2	1:CA:397:A:C2	2.82	0.67
1:CA:122:G:H2'	1:CA:123:C:O4'	1.94	0.67
1:CA:1117:G:H4'	9:CI:104:ARG:CZ	2.24	0.67
1:CA:1216:G:H5''	14:CN:5:ALA:HB2	1.75	0.67
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.59	0.67
23:D1:20:ARG:HB2	31:DA:380:U:O3'	1.92	0.67
28:D6:24:GLU:HA	28:D6:24:GLU:OE1	1.94	0.67
30:D8:30:ARG:O	30:D8:31:HIS:C	2.31	0.67
30:D8:32:LEU:HG	30:D8:34:TRP:HB3	1.76	0.67
31:DA:198:C:H5'	31:DA:2244:U:OP1	1.93	0.67
31:DA:527:C:OP2	31:DA:2779:U:H5	1.76	0.67
31:DA:631:A:O2'	41:DP:67:MET:HB3	1.94	0.67
31:DA:2631:G:N2	34:DE:61:ARG:NH1	2.37	0.67
33:DD:25:THR:HG23	33:DD:25:THR:O	1.93	0.67
35:DF:63:LYS:NZ	35:DF:67:GLN:HB2	2.07	0.67
39:DN:25:ARG:HH11	39:DN:25:ARG:CG	2.07	0.67
41:DP:105:LEU:HD12	41:DP:105:LEU:N	2.08	0.67
1:AA:771:G:C2'	1:AA:772:U:H5'	2.24	0.67
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.93	0.67
6:AF:20:ALA:HA	6:AF:23:LYS:HD3	1.76	0.67
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.09	0.67
9:AI:112:LYS:HG2	9:AI:119:ALA:H	1.58	0.67
11:AK:38:ASN:HD22	11:AK:38:ASN:N	1.91	0.67
31:BA:2402:C:H5'	31:BA:2403:C:OP2	1.94	0.67
37:BH:92:ILE:HG22	37:BH:93:GLY:N	2.08	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:116:GLU:HG2	37:BH:117:PRO:HD2	1.75	0.67
41:BP:64:LYS:O	41:BP:66:GLY:N	2.27	0.67
42:BQ:23:GLY:O	42:BQ:100:GLY:HA3	1.94	0.67
43:BR:9:LYS:O	43:BR:10:LEU:CG	2.42	0.67
50:BY:9:LYS:HA	50:BY:30:VAL:CG2	2.21	0.67
50:BY:75:ILE:HD13	50:BY:76:CYS:N	2.08	0.67
1:CA:503:C:OP2	12:CL:116:SER:HB3	1.94	0.67
1:CA:542:G:H2'	1:CA:543:C:H6	1.59	0.67
1:CA:663:A:C2'	1:CA:664:G:H5'	2.24	0.67
1:CA:779:C:C2'	1:CA:780:A:H5'	2.24	0.67
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.29	0.67
3:CC:32:LEU:HD22	3:CC:59:ARG:NH1	2.09	0.67
7:CG:116:ALA:O	7:CG:120:ILE:HG12	1.94	0.67
9:CI:96:LEU:HG	9:CI:102:LEU:HB2	1.74	0.67
12:CL:51:ALA:O	12:CL:52:LEU:HD23	1.93	0.67
15:CO:3:ILE:HD13	15:CO:3:ILE:H	1.59	0.67
31:DA:387:U:H4'	31:DA:388:G:O5'	1.94	0.67
31:DA:2262:U:O2'	31:DA:2263:C:H5'	1.92	0.67
33:DD:267:SER:C	33:DD:269:PHE:N	2.43	0.67
36:DG:111:LEU:HD23	36:DG:114:ILE:HD12	1.74	0.67
49:DX:21:PHE:H	49:DX:21:PHE:HD1	1.41	0.67
1:AA:590:C:H2'	1:AA:591:U:H6	1.54	0.67
7:AG:116:ALA:O	7:AG:120:ILE:HG12	1.94	0.67
30:B8:35:GLN:NE2	30:B8:36:LYS:NZ	2.41	0.67
31:BA:2476:A:C4	31:BA:2477:C:C5	2.83	0.67
31:BA:2543:G:H8	31:BA:2543:G:H5'	1.60	0.67
31:BA:2660:A:H5''	31:BA:2661:G:N2	2.09	0.67
49:BX:60:ARG:HB2	49:BX:73:ARG:N	2.09	0.67
31:DA:52:A:C2'	31:DA:53:A:H5'	2.25	0.67
34:DE:152:LYS:HD3	39:DN:78:TYR:CB	2.23	0.67
42:DQ:75:THR:CA	42:DQ:88:GLY:HA2	2.22	0.67
43:DR:28:LEU:HD12	43:DR:48:VAL:HG21	1.76	0.67
47:DV:80:GLN:OE1	47:DV:80:GLN:O	2.12	0.67
49:DX:36:LYS:HZ2	49:DX:39:ILE:HA	1.60	0.67
50:DY:15:VAL:HG12	50:DY:16:ALA:N	2.10	0.67
1:AA:449:C:O2	16:AP:42:ARG:HD2	1.94	0.67
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.29	0.67
5:AE:7:GLU:HB3	5:AE:112:LEU:HD13	1.76	0.67
15:AO:3:ILE:HD13	15:AO:3:ILE:H	1.59	0.67
31:BA:518:G:H2'	31:BA:519:U:C6	2.28	0.67
31:BA:826:U:OP1	31:BA:2428:G:H3'	1.94	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1503:U:H2'	31:BA:1504:C:C5	2.29	0.67
31:BA:1678:G:H21	31:BA:1989:G:H22	1.42	0.67
31:BA:2292:C:C2'	31:BA:2293:C:H5'	2.25	0.67
31:BA:2306:C:H5''	31:BA:2307:G:O4'	1.94	0.67
31:BA:2781:A:H5'	31:BA:2782:G:C5'	2.22	0.67
34:BE:35:GLN:HB3	34:BE:48:GLN:HB3	1.76	0.67
34:BE:152:LYS:HD3	39:BN:78:TYR:CB	2.23	0.67
41:BP:23:PRO:CB	41:BP:33:ARG:HG3	2.17	0.67
43:BR:116:LEU:O	43:BR:117:VAL:CB	2.43	0.67
1:CA:693:G:H1'	7:CG:82:GLY:HA3	1.76	0.67
1:CA:997:U:H2'	1:CA:998:G:C8	2.30	0.67
13:CM:25:ILE:HD11	13:CM:66:LEU:HD23	1.74	0.67
31:DA:143:G:H1'	49:DX:38:GLU:HG3	1.75	0.67
31:DA:1000:A:H2'	31:DA:1001:A:C8	2.29	0.67
31:DA:1190:G:H4'	41:DP:35:HIS:CB	2.25	0.67
46:DU:90:VAL:HG22	47:DV:39:LEU:HD11	1.75	0.67
50:DY:76:CYS:HB3	50:DY:77:PRO:HD2	1.75	0.67
1:AA:166:G:H2'	1:AA:167:G:H8	1.59	0.67
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.24	0.67
5:AE:68:GLU:O	5:AE:68:GLU:HG3	1.94	0.67
31:BA:1218:C:H2'	31:BA:1219:G:H5'	1.75	0.67
31:BA:1228:G:C2'	31:BA:1229:G:H5''	2.23	0.67
31:BA:1495:A:H5''	31:BA:1496:A:OP2	1.95	0.67
33:BD:158:ALA:O	33:BD:159:ALA:HB2	1.95	0.67
42:BQ:63:LYS:HG2	42:BQ:65:PHE:CE2	2.29	0.67
1:CA:577:G:C8	1:CA:816:A:C6	2.82	0.67
1:CA:676:A:H2'	1:CA:677:U:H6	1.59	0.67
4:CD:106:TYR:HE1	4:CD:112:VAL:O	1.77	0.67
6:CF:91:VAL:HG11	18:CR:72:ARG:NH1	2.09	0.67
31:DA:676:A:H2	31:DA:802:A:N6	1.88	0.67
31:DA:693:C:O2'	31:DA:694:U:H5'	1.95	0.67
31:DA:792:G:H5''	31:DA:793:A:H5'	1.74	0.67
31:DA:875:G:H4'	51:DZ:170:THR:HG21	1.74	0.67
31:DA:1291:C:H2'	31:DA:1292:U:C6	2.29	0.67
31:DA:1582:C:O2'	31:DA:1586:A:C8	2.48	0.67
31:DA:2476:A:C4	31:DA:2477:C:C5	2.83	0.67
33:DD:94:LEU:HB2	33:DD:104:TYR:CE2	2.29	0.67
37:DH:66:GLY:CA	37:DH:69:ARG:HB2	2.23	0.67
46:DU:91:ASP:OD2	46:DU:96:ALA:HB2	1.94	0.67
1:AA:428:G:H4'	1:AA:429:U:O5'	1.95	0.67
6:AF:52:ILE:HD12	6:AF:87:ARG:HH12	1.59	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:24:CYS:HB3	14:AN:27:CYS:O	1.93	0.67
25:B3:43:ILE:O	25:B3:47:VAL:HG23	1.94	0.67
31:BA:614(A):U:H4'	31:BA:614(B):G:H5''	1.76	0.67
31:BA:1614:A:H61	48:BW:88:ARG:H	1.41	0.67
31:BA:2029:G:H2'	31:BA:2031:A:OP2	1.94	0.67
32:BB:6:C:O2'	44:BS:29:PHE:HE1	1.78	0.67
35:BF:20:LEU:HD22	35:BF:203:GLN:NE2	2.08	0.67
35:BF:80:ALA:O	35:BF:83:PHE:HB2	1.94	0.67
49:BX:52:VAL:HB	49:BX:80:ILE:CG2	2.25	0.67
1:CA:364:A:H2'	1:CA:365:U:O2	1.95	0.67
1:CA:428:G:H4'	1:CA:429:U:O5'	1.94	0.67
1:CA:923:A:C8	1:CA:1398:A:C2	2.83	0.67
1:CA:1376:U:O2'	1:CA:1377:A:H5'	1.95	0.67
4:CD:10:ARG:HH11	4:CD:10:ARG:HG2	1.60	0.67
28:D6:42:TRP:CE3	28:D6:42:TRP:HA	2.29	0.67
31:DA:514:A:H1'	31:DA:581:C:O2'	1.94	0.67
31:DA:1205:U:H4'	31:DA:1206:G:OP2	1.94	0.67
31:DA:1412:A:H2'	31:DA:1413:G:O4'	1.95	0.67
31:DA:2464:C:O2'	31:DA:2465:C:H5''	1.94	0.67
41:DP:16:ARG:HH11	41:DP:16:ARG:CG	1.93	0.67
47:DV:60:GLU:HB3	47:DV:62:LEU:HD21	1.77	0.67
49:DX:38:GLU:N	49:DX:38:GLU:OE1	2.28	0.67
50:DY:37:VAL:HG22	50:DY:67:LEU:O	1.94	0.67
1:AA:47:C:H5''	1:AA:365:U:C6	2.30	0.67
1:AA:177:C:OP1	20:AT:65:LYS:HD3	1.95	0.67
1:AA:267:C:OP1	17:AQ:67:LYS:HD2	1.95	0.67
5:AE:55:VAL:O	5:AE:58:ALA:HB3	1.95	0.67
31:BA:819:A:C4	31:BA:1189:A:C2	2.82	0.67
31:BA:1473:G:H5''	31:BA:1474:C:OP2	1.95	0.67
31:BA:1505:C:H6	31:BA:1505:C:H3'	1.59	0.67
31:BA:2328:A:H2'	31:BA:2329:G:O4'	1.95	0.67
31:BA:2593:U:H2'	31:BA:2594:C:C6	2.29	0.67
31:BA:2843:G:H2'	31:BA:2844:G:H8	1.59	0.67
36:BG:5:VAL:HG21	36:BG:101:ILE:HB	1.75	0.67
36:BG:57:ALA:O	36:BG:60:LEU:HB3	1.95	0.67
41:BP:30:THR:CG2	41:BP:31:ALA:H	2.07	0.67
44:BS:76:LYS:O	44:BS:79:ALA:HB3	1.94	0.67
47:BV:66:ARG:HB2	47:BV:95:LEU:H	1.59	0.67
1:CA:9:G:H5''	5:CE:122:GLU:OE2	1.95	0.67
1:CA:543:C:C2	1:CA:544:G:C8	2.82	0.67
2:CB:111:ARG:HH21	2:CB:114:ARG:HG2	1.60	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:14:ARG:NH1	24:D2:57:ILE:HG21	2.10	0.67
31:DA:860:U:O2'	31:DA:861:A:H5'	1.94	0.67
31:DA:1228:G:C2'	31:DA:1229:G:H5''	2.21	0.67
31:DA:2531:A:H2	31:DA:2658:C:O2	1.76	0.67
34:DE:35:GLN:HB3	34:DE:48:GLN:HB3	1.76	0.67
35:DF:203:GLN:HA	35:DF:206:ILE:O	1.95	0.67
44:DS:89:ARG:HB3	44:DS:92:TYR:HB3	1.77	0.67
1:AA:1066:C:N4	1:AA:1191:A:N7	2.42	0.67
1:AA:1117:G:H4'	9:AI:104:ARG:CZ	2.25	0.67
24:B2:49:LYS:NZ	24:B2:53:LEU:HD22	2.09	0.67
29:B7:40:TRP:CD2	31:BA:459:U:H5''	2.30	0.67
31:BA:543:C:C6	31:BA:547:A:N7	2.62	0.67
31:BA:1582:C:O2'	31:BA:1586:A:C8	2.47	0.67
31:BA:2308:G:O6	31:BA:2310:A:H2'	1.95	0.67
31:BA:2377:A:H4'	44:BS:107:GLU:HG2	1.76	0.67
31:BA:2747:G:O6	31:BA:2755:C:H5''	1.95	0.67
35:BF:3:GLU:O	35:BF:24:LEU:HG	1.94	0.67
37:BH:136:ILE:HD12	37:BH:136:ILE:H	1.60	0.67
44:BS:93:LYS:O	44:BS:93:LYS:HG3	1.95	0.67
1:CA:106:C:H2'	1:CA:107:G:H8	1.60	0.67
1:CA:449:C:O2	16:CP:42:ARG:HD2	1.95	0.67
1:CA:695:A:H61	1:CA:797:C:H1'	1.60	0.67
1:CA:702:A:H3'	1:CA:703:G:C5'	2.25	0.67
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.30	0.67
31:DA:1981:A:H5''	31:DA:1982:C:OP2	1.95	0.67
36:DG:47:LYS:HG3	36:DG:82:LEU:HD11	1.74	0.67
39:DN:15:LEU:HD22	39:DN:53:VAL:O	1.95	0.67
39:DN:56:ASN:N	39:DN:125:GLY:HA3	2.06	0.67
41:DP:85:LEU:HD22	41:DP:115:LEU:O	1.95	0.67
46:DU:75:ASN:HB2	46:DU:78:THR:HG1	1.58	0.67
47:DV:19:LYS:HE2	47:DV:20:LEU:N	2.10	0.67
50:DY:95:LYS:HD3	50:DY:100:ALA:HB1	1.75	0.67
1:AA:427:U:OP1	4:AD:13:ARG:NH2	2.27	0.67
23:B1:48:LYS:HA	23:B1:48:LYS:HE3	1.75	0.67
23:B1:87:PRO:HB2	23:B1:91:LYS:HZ2	1.59	0.67
29:B7:16:HIS:CB	29:B7:44:PRO:HG2	2.25	0.67
31:BA:27:G:N2	31:BA:512:G:O2'	2.24	0.67
31:BA:2830:G:H5'	31:BA:2830:G:H8	1.55	0.67
38:BI:122:GLU:O	38:BI:126:TYR:HE1	1.78	0.67
41:BP:16:ARG:HH11	41:BP:16:ARG:CG	1.94	0.67
44:BS:52:SER:OG	44:BS:55:ALA:HB3	1.95	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BU:36:ARG:HD3	46:BU:40:PHE:CZ	2.30	0.67
47:BV:14:VAL:HG12	47:BV:98:GLU:HG3	1.75	0.67
47:BV:40:LEU:O	47:BV:41:GLY:O	2.13	0.67
48:BW:13:SER:HB3	48:BW:16:LYS:HD3	1.76	0.67
1:CA:1080:A:H5''	5:CE:16:THR:HG21	1.77	0.67
4:CD:79:PHE:CD1	4:CD:207:TYR:HD1	2.13	0.67
27:D5:40:LYS:CE	27:D5:46:CYS:HB3	2.25	0.67
27:D5:50:GLY:HA3	27:D5:56:LYS:HG2	1.77	0.67
30:D8:32:LEU:CG	30:D8:35:GLN:H	2.08	0.67
31:DA:1204:A:C2	31:DA:1241:A:N1	2.63	0.67
31:DA:2016:U:H2'	31:DA:2017:U:C6	2.30	0.67
33:DD:69:ARG:NH2	33:DD:128:GLY:O	2.27	0.67
39:DN:30:ILE:HG23	39:DN:52:VAL:HG11	1.77	0.67
1:AA:179:A:H2'	1:AA:180:U:C6	2.29	0.67
1:AA:243:A:H4'	1:AA:244:U:O5'	1.95	0.67
1:AA:669:U:C2	1:AA:670:G:C8	2.83	0.67
1:AA:673:G:H5''	6:AF:87:ARG:HE	1.60	0.67
1:AA:1216:G:H5''	14:AN:5:ALA:HB2	1.76	0.67
12:AL:27:LEU:HG	12:AL:62:SER:OG	1.95	0.67
24:B2:32:LEU:HD13	24:B2:37:PHE:HB3	1.75	0.67
31:BA:370:G:C4'	31:BA:371:A:OP2	2.39	0.67
31:BA:754:C:H2'	31:BA:755:C:H6	1.60	0.67
34:BE:154:LYS:HA	34:BE:154:LYS:CE	2.24	0.67
39:BN:15:LEU:HD22	39:BN:53:VAL:O	1.95	0.67
44:BS:36:TYR:N	44:BS:36:TYR:HD1	1.93	0.67
45:BT:55:ASN:H	45:BT:59:THR:HB	1.58	0.67
49:BX:21:PHE:HD1	49:BX:21:PHE:H	1.41	0.67
49:BX:82:GLN:C	49:BX:85:PRO:HD2	2.15	0.67
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.77	0.67
6:CF:20:ALA:HA	6:CF:23:LYS:HD3	1.77	0.67
7:CG:15:ASP:HB3	7:CG:19:GLY:H	1.60	0.67
11:CK:29:ILE:HD11	11:CK:42:TRP:CE3	2.30	0.67
20:CT:13:LEU:HD12	20:CT:13:LEU:N	2.07	0.67
31:DA:106:C:H1'	50:DY:2:ARG:NE	2.10	0.67
31:DA:1025:G:C4	31:DA:1135:C:H1'	2.30	0.67
31:DA:2418:A:H2'	31:DA:2419:U:H6	1.59	0.67
31:DA:2652:C:O2'	31:DA:2653:U:H5'	1.93	0.67
33:DD:35:LYS:HZ1	33:DD:104:TYR:HB2	1.60	0.67
36:DG:9:ARG:O	36:DG:13:GLU:HG2	1.94	0.67
38:DI:82:ARG:HB3	38:DI:89:TYR:CE1	2.26	0.67
38:DI:122:GLU:O	38:DI:126:TYR:HE1	1.77	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DR:10:LEU:HD22	43:DR:17:ARG:HD3	1.77	0.67
1:AA:356:A:H2'	1:AA:357:G:O4'	1.96	0.66
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.77	0.66
1:AA:1072:G:C6	1:AA:1073:U:C4	2.83	0.66
6:AF:18:GLN:HA	6:AF:21:LEU:HB2	1.77	0.66
11:AK:52:GLY:H	11:AK:55:LYS:HG3	1.60	0.66
24:B2:51:ARG:HE	31:BA:72:U:H5'	1.60	0.66
27:B5:50:GLY:HA3	27:B5:56:LYS:HG2	1.76	0.66
31:BA:11:G:C2'	31:BA:12:U:H5'	2.25	0.66
31:BA:357:A:C2	31:BA:358:U:O2	2.48	0.66
31:BA:378:C:C2'	31:BA:379:G:H5'	2.26	0.66
31:BA:1181:C:O2'	31:BA:1182:A:H5'	1.95	0.66
31:BA:1252:G:C2	31:BA:1253:A:C2	2.83	0.66
31:BA:1502:C:H2'	31:BA:1502:C:O2	1.95	0.66
31:BA:1996:C:H4'	31:BA:1997:G:OP1	1.95	0.66
33:BD:35:LYS:NZ	33:BD:65:ILE:HA	2.09	0.66
49:BX:64:LYS:HE3	49:BX:65:ARG:HH21	1.60	0.66
1:CA:179:A:H2'	1:CA:180:U:C6	2.29	0.66
1:CA:373:A:H2'	1:CA:374:A:H8	1.59	0.66
1:CA:853:G:H2'	1:CA:854:G:H8	1.60	0.66
1:CA:1132:C:H2'	1:CA:1133:G:O4'	1.95	0.66
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.24	0.66
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.77	0.66
12:CL:8:ASN:ND2	17:CQ:34:LYS:HE2	2.10	0.66
31:DA:1019:U:O2'	31:DA:1021:A:H2	1.71	0.66
31:DA:1278:A:O2'	43:DR:34:ILE:HD11	1.94	0.66
31:DA:1790:C:H2'	31:DA:1791:A:C5	2.30	0.66
31:DA:2292:C:C2'	31:DA:2293:C:H5'	2.25	0.66
38:DI:120:ILE:CD1	38:DI:140:LEU:HD23	2.25	0.66
41:DP:80:TYR:CZ	41:DP:111:ARG:HG2	2.30	0.66
47:DV:25:LEU:HG	47:DV:94:LEU:HD13	1.76	0.66
49:DX:60:ARG:HE	49:DX:74:PRO:CG	2.07	0.66
51:DZ:130:PRO:HA	51:DZ:133:ILE:CD1	2.24	0.66
1:AA:299:G:C5	1:AA:300:A:C6	2.83	0.66
1:AA:503:C:OP2	12:AL:116:SER:HB3	1.96	0.66
1:AA:828:A:H5''	1:AA:859:A:C2	2.31	0.66
1:AA:857:C:H2'	1:AA:858:G:O4'	1.95	0.66
1:AA:1308:U:H5''	13:AM:98:VAL:N	2.09	0.66
1:AA:1517:G:H1'	31:BA:1919:A:O3'	1.95	0.66
6:AF:79:LEU:HB2	6:AF:88:VAL:HG21	1.76	0.66
15:AO:3:ILE:HG12	15:AO:3:ILE:O	1.95	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:43:PHE:O	18:AR:44:LEU:HD12	1.96	0.66
23:B1:46:LEU:HD12	23:B1:46:LEU:N	2.09	0.66
28:B6:51:GLU:CG	28:B6:52:VAL:H	2.05	0.66
31:BA:301:G:C4	31:BA:302:C:C5	2.83	0.66
31:BA:542:C:H2'	31:BA:543:C:OP1	1.94	0.66
31:BA:2262:U:O2'	31:BA:2263:C:H5'	1.96	0.66
31:BA:2393:A:C2'	31:BA:2394:C:H5'	2.24	0.66
31:BA:2480:C:N4	31:BA:2481:G:C6	2.63	0.66
31:BA:2492:U:H2'	31:BA:2493:U:C6	2.29	0.66
31:BA:2666:C:H5''	31:BA:2666:C:H6	1.60	0.66
31:BA:2689:U:OP1	31:BA:2719:G:N1	2.24	0.66
32:BB:20:C:C2'	32:BB:21:G:H5''	2.26	0.66
33:BD:35:LYS:HD3	33:BD:63:ARG:C	2.15	0.66
36:BG:15:VAL:HG12	36:BG:19:LEU:CD1	2.24	0.66
36:BG:47:LYS:HG3	36:BG:82:LEU:HD11	1.75	0.66
41:BP:15:ARG:HG2	41:BP:17:LYS:HD2	1.76	0.66
41:BP:17:LYS:C	41:BP:19:VAL:H	1.99	0.66
41:BP:57:THR:HB	41:BP:59:LEU:N	2.10	0.66
41:BP:80:TYR:CZ	41:BP:111:ARG:HG2	2.31	0.66
41:BP:101:VAL:C	41:BP:103:ALA:H	1.99	0.66
46:BU:17:ILE:HG23	46:BU:39:LEU:HD12	1.77	0.66
47:BV:66:ARG:NE	47:BV:94:LEU:HG	2.09	0.66
1:CA:41:G:H2'	1:CA:42:G:H8	1.59	0.66
1:CA:581:G:N2	1:CA:582:U:C4	2.63	0.66
1:CA:715:A:H2'	1:CA:716:A:C8	2.30	0.66
2:CB:16:HIS:HD2	2:CB:209:ARG:O	1.78	0.66
9:CI:113:LYS:H	9:CI:119:ALA:HA	1.59	0.66
30:D8:4:MET:O	30:D8:62:LEU:HD11	1.95	0.66
31:DA:589:C:O2'	31:DA:590:A:H5'	1.95	0.66
31:DA:1448:G:H5'	31:DA:1449:A:OP1	1.95	0.66
31:DA:2641:G:OP1	39:DN:83:LYS:HD3	1.95	0.66
31:DA:2781:A:H5'	31:DA:2782:G:C5'	2.23	0.66
32:DB:74:U:C3'	32:DB:75:G:H5''	2.25	0.66
37:DH:92:ILE:HG22	37:DH:93:GLY:N	2.10	0.66
45:DT:24:PRO:HA	45:DT:49:VAL:O	1.95	0.66
46:DU:65:ILE:HG12	46:DU:96:ALA:HB3	1.78	0.66
47:DV:52:VAL:O	47:DV:53:GLU:CB	2.43	0.66
48:DW:6:ILE:HA	48:DW:103:ILE:O	1.95	0.66
1:AA:375:U:H5''	16:AP:6:LEU:HD22	1.78	0.66
1:AA:386:C:H2'	1:AA:387:U:C5'	2.20	0.66
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.30	0.66

*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:C5	2.84	0.66
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	1.78	0.66
24:B2:52:ASP:CG	31:BA:72:U:H1'	2.16	0.66
26:B4:5:ILE:C	36:BG:67:LYS:HG2	2.16	0.66
31:BA:153:C:H2'	31:BA:154:G:C8	2.30	0.66
31:BA:557:U:O2'	31:BA:558:G:H5'	1.94	0.66
31:BA:755:C:H2'	31:BA:756:C:H6	1.61	0.66
31:BA:1491:G:O2'	33:BD:101:GLU:HB2	1.95	0.66
31:BA:1495:A:N3	31:BA:1496:A:C2	2.62	0.66
31:BA:1614:A:N6	48:BW:88:ARG:H	1.93	0.66
45:BT:29:ARG:HB3	45:BT:85:LYS:HA	1.75	0.66
1:CA:718:G:H1	18:CR:74:ARG:NH2	1.93	0.66
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.10	0.66
1:CA:771:G:C2'	1:CA:772:U:H5'	2.26	0.66
1:CA:1072:G:C6	1:CA:1073:U:C4	2.83	0.66
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	2.10	0.66
3:CC:152:ILE:HB	3:CC:199:LYS:HB2	1.76	0.66
31:DA:661:C:O3'	41:DP:18:ARG:HG2	1.96	0.66
35:DF:20:LEU:HD13	35:DF:199:TRP:HH2	1.60	0.66
35:DF:184:TYR:CD2	35:DF:188:ARG:HD2	2.30	0.66
39:DN:47:ALA:CB	39:DN:112:LEU:HD11	2.26	0.66
40:DO:3:GLN:HB2	40:DO:4:PRO:HD2	1.76	0.66
41:DP:23:PRO:C	41:DP:33:ARG:HE	1.98	0.66
44:DS:36:TYR:N	44:DS:36:TYR:CD1	2.60	0.66
45:DT:100:TYR:CD2	45:DT:103:ARG:NH2	2.62	0.66
2:AB:111:ARG:HH21	2:AB:114:ARG:HG2	1.61	0.66
11:AK:25:TYR:OH	11:AK:87:THR:HB	1.96	0.66
24:B2:47:ASN:ND2	24:B2:48:HIS:N	2.43	0.66
25:B3:52:HIS:H	25:B3:52:HIS:CD2	2.13	0.66
30:B8:32:LEU:C	30:B8:34:TRP:N	2.46	0.66
31:BA:754:C:H2'	31:BA:755:C:C6	2.30	0.66
31:BA:861:A:C2	31:BA:917:A:C4	2.83	0.66
31:BA:892:G:H3'	31:BA:892:G:N3	2.09	0.66
31:BA:2462:U:H1'	31:BA:2491:U:O4	1.95	0.66
31:BA:2752:C:C2	31:BA:2753:A:N7	2.64	0.66
33:BD:16:MET:HB2	33:BD:207:GLY:HA3	1.76	0.66
33:BD:97:TYR:HB2	33:BD:101:GLU:O	1.96	0.66
34:BE:38:THR:HG22	34:BE:40:GLU:N	2.10	0.66
41:BP:47:ASP:HB3	41:BP:48:PRO:O	1.94	0.66
1:CA:116:A:OP2	1:CA:116:A:C8	2.49	0.66
1:CA:678:U:H2'	1:CA:679:C:C6	2.30	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:61:LEU:CD2	2:CB:68:ILE:HD11	2.25	0.66
3:CC:134:ILE:HD12	3:CC:151:VAL:HG11	1.78	0.66
23:D1:11:ARG:HH11	23:D1:91:LYS:HZ3	1.41	0.66
31:DA:34:C:H2'	31:DA:35:G:OP1	1.94	0.66
31:DA:39:C:H2'	31:DA:40:C:C6	2.31	0.66
31:DA:993:G:N2	47:DV:91:TYR:OH	2.28	0.66
31:DA:1270:C:H5''	31:DA:1271:G:O5'	1.95	0.66
31:DA:1797:C:O2'	31:DA:1798:U:H5'	1.96	0.66
31:DA:1876:A:H2'	31:DA:1877:A:C8	2.30	0.66
36:DG:37:VAL:HG21	36:DG:103:LEU:HD11	1.78	0.66
41:DP:146:VAL:HG22	41:DP:147:LEU:N	2.11	0.66
43:DR:96:ARG:HH21	43:DR:117:VAL:CG2	2.07	0.66
46:DU:61:TRP:O	46:DU:62:ILE:C	2.33	0.66
1:AA:38:G:C2	1:AA:397:A:C2	2.82	0.66
1:AA:191:G:H1'	20:AT:105:SER:HA	1.77	0.66
1:AA:719:C:H5''	1:AA:720:C:OP2	1.96	0.66
1:AA:1316:G:H2'	1:AA:1317:C:H5''	1.77	0.66
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.61	0.66
31:BA:642:G:H21	31:BA:646:A:H2	1.42	0.66
31:BA:966:G:H2'	31:BA:967:C:C6	2.30	0.66
31:BA:2475:C:H42	31:BA:2529:G:H22	1.44	0.66
31:BA:2521:C:H42	31:BA:2544:G:H1	1.43	0.66
35:BF:178:PRO:HG2	35:BF:179:GLU:OE2	1.96	0.66
37:BH:155:SER:O	37:BH:155:SER:OG	2.12	0.66
38:BI:91:SER:CB	38:BI:119:PRO:HB2	2.25	0.66
39:BN:40:PRO:O	46:BU:64:ARG:NH2	2.29	0.66
45:BT:35:LYS:HG3	45:BT:36:GLU:HB2	1.76	0.66
1:CA:59:A:H1'	1:CA:354:G:N2	2.10	0.66
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	1.95	0.66
30:D8:14:VAL:HG11	30:D8:22:VAL:CG1	2.26	0.66
31:DA:153:C:H2'	31:DA:154:G:C8	2.31	0.66
31:DA:1348:G:H2'	31:DA:1349:A:H5''	1.78	0.66
31:DA:1557:C:OP2	31:DA:1558:A:O2'	2.11	0.66
31:DA:2399:G:H2'	31:DA:2400:G:O4'	1.95	0.66
31:DA:2842:G:N2	31:DA:2875:C:O2	2.19	0.66
33:DD:58:HIS:HD2	33:DD:59:LYS:N	1.94	0.66
36:DG:172:LEU:HG	36:DG:173:LEU:HD23	1.75	0.66
37:DH:136:ILE:H	37:DH:136:ILE:HD12	1.59	0.66
42:DQ:69:PHE:CD1	42:DQ:70:PRO:HD2	2.30	0.66
49:DX:18:TYR:HA	49:DX:21:PHE:CD1	2.30	0.66
1:AA:350:G:O2'	1:AA:351:G:H5'	1.96	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:373:A:H2'	1:AA:374:A:H8	1.60	0.66
1:AA:774:G:C2'	1:AA:775:G:H5'	2.25	0.66
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.76	0.66
3:AC:138:VAL:HG23	3:AC:151:VAL:HG23	1.77	0.66
11:AK:57:THR:OG1	11:AK:58:PRO:HD2	1.95	0.66
15:AO:64:ARG:HH12	15:AO:88:ARG:NH1	1.93	0.66
23:B1:26:ARG:HB2	23:B1:34:THR:HB	1.78	0.66
30:B8:58:ILE:HG22	41:BP:49:ARG:HD2	1.78	0.66
31:BA:384:U:O2'	31:BA:385:C:H5'	1.94	0.66
31:BA:1190:G:H4'	41:BP:35:HIS:CB	2.26	0.66
31:BA:1412:A:H2'	31:BA:1413:G:O4'	1.95	0.66
31:BA:2342:C:OP2	31:BA:2342:C:H6	1.78	0.66
37:BH:44:VAL:O	37:BH:46:GLU:OE2	2.14	0.66
37:BH:157:TYR:CE1	37:BH:171:LEU:N	2.64	0.66
41:BP:92:GLU:HA	41:BP:123:LEU:HD22	1.78	0.66
41:BP:120:ALA:O	25:D3:1:MET:HB3	1.96	0.66
48:BW:92:ARG:HG2	48:BW:92:ARG:NH1	2.02	0.66
50:BY:35:TYR:CD2	50:BY:69:ALA:HB3	2.29	0.66
9:CI:112:LYS:HG2	9:CI:119:ALA:H	1.61	0.66
31:DA:573:G:C6	31:DA:2030:A:H3'	2.30	0.66
31:DA:856:C:C6	31:DA:856:C:H5''	2.30	0.66
31:DA:2307:G:N2	31:DA:2308:G:H5'	2.10	0.66
31:DA:2464:C:O2'	31:DA:2465:C:C5'	2.44	0.66
31:DA:2689:U:OP1	31:DA:2719:G:N1	2.25	0.66
32:DB:38:C:C5	32:DB:39:A:C8	2.84	0.66
36:DG:111:LEU:HD23	36:DG:114:ILE:CD1	2.25	0.66
50:DY:68:HIS:O	50:DY:70:SER:N	2.29	0.66
1:AA:194:C:H2'	1:AA:195:A:H5''	1.77	0.66
1:AA:543:C:C2	1:AA:544:G:C8	2.83	0.66
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.10	0.66
2:AB:187:LEU:HD11	2:AB:204:ASN:O	1.95	0.66
8:AH:91:ARG:HG2	17:AQ:34:LYS:H	1.61	0.66
27:B5:16:ARG:NH1	27:B5:17:ASP:OD1	2.28	0.66
29:B7:8:ASN:C	29:B7:8:ASN:ND2	2.46	0.66
31:BA:1359:A:H2'	31:BA:1360:A:H5'	1.77	0.66
31:BA:2360:A:O2'	31:BA:2361:A:P	2.53	0.66
31:BA:2869:G:H2'	31:BA:2870:C:O4'	1.95	0.66
31:BA:2884:U:C5	31:BA:2885:C:C6	2.84	0.66
36:BG:9:ARG:O	36:BG:13:GLU:HG2	1.96	0.66
37:BH:20:ALA:HB3	37:BH:23:ARG:HB2	1.76	0.66
38:BI:5:LEU:O	38:BI:6:LEU:HD23	1.95	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:17:ARG:HD3	44:BS:25:ARG:HE	1.60	0.66
50:BY:68:HIS:O	50:BY:70:SER:N	2.29	0.66
51:BZ:53:ILE:HG22	51:BZ:71:VAL:CB	2.24	0.66
1:CA:154:C:H2'	1:CA:155:C:H6	1.61	0.66
1:CA:377:G:OP1	16:CP:3:LYS:HD2	1.96	0.66
1:CA:828:A:H2'	1:CA:829:G:O4'	1.96	0.66
5:CE:72:GLN:O	5:CE:73:ASN:HB2	1.93	0.66
23:D1:87:PRO:HB2	23:D1:91:LYS:HZ2	1.59	0.66
24:D2:51:ARG:O	24:D2:52:ASP:CB	2.44	0.66
31:DA:531:C:H4'	31:DA:532:A:H5''	1.76	0.66
31:DA:1639:U:H4'	31:DA:2699:C:H4'	1.78	0.66
34:DE:118:LYS:O	34:DE:160:TYR:HE1	1.78	0.66
35:DF:57:VAL:HG12	35:DF:59:TYR:H	1.60	0.66
35:DF:132:VAL:HG22	35:DF:133:ASN:H	1.59	0.66
36:DG:15:VAL:HG12	36:DG:19:LEU:CD1	2.25	0.66
38:DI:113:ARG:NH1	38:DI:132:PRO:HG3	2.11	0.66
39:DN:78:TYR:CE1	39:DN:79:PRO:HB3	2.31	0.66
47:DV:66:ARG:HB2	47:DV:95:LEU:H	1.59	0.66
47:DV:66:ARG:HD2	47:DV:67:GLY:N	2.09	0.66
47:DV:66:ARG:HE	47:DV:94:LEU:HG	1.60	0.66
1:AA:341:C:O2'	1:AA:342:C:H5'	1.95	0.66
1:AA:407:G:OP1	4:AD:115:ARG:HD2	1.96	0.66
1:AA:561:U:O2'	1:AA:562:C:P	2.53	0.66
1:AA:820:U:H4'	1:AA:821:G:OP2	1.94	0.66
1:AA:865:A:C2	1:AA:918:A:H4'	2.30	0.66
1:AA:1228:C:P	13:AM:108:ARG:HH22	2.19	0.66
1:AA:1495:U:H1'	31:BA:1912:A:C2	2.30	0.66
30:B8:43:GLN:O	30:B8:44:LYS:HD2	1.96	0.66
31:BA:65:C:H2'	31:BA:66:C:C6	2.30	0.66
31:BA:143:G:H1'	49:BX:38:GLU:HG3	1.76	0.66
31:BA:565:C:H2'	31:BA:566:U:O4'	1.95	0.66
31:BA:1519:G:H5'	31:BA:1520:G:OP2	1.96	0.66
31:BA:1670:C:O2	34:BE:129:HIS:HE1	1.79	0.66
31:BA:1773:A:H2'	31:BA:1774:C:H5'	1.77	0.66
31:BA:1791:A:H3'	31:BA:1792:G:H8	1.60	0.66
31:BA:1987:G:H2'	31:BA:1988:C:C6	2.30	0.66
31:BA:2418:A:H2'	31:BA:2419:U:C6	2.29	0.66
31:BA:2660:A:H5''	31:BA:2661:G:C2	2.31	0.66
32:BB:6:C:HO2'	44:BS:29:PHE:HE1	1.44	0.66
33:BD:58:HIS:HD2	33:BD:59:LYS:N	1.93	0.66
33:BD:105:ILE:HG13	33:BD:106:ILE:O	1.95	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:197:ILE:HD11	34:BE:199:ARG:NH2	2.10	0.66
41:BP:121:LYS:HG3	25:D3:2:PRO:CG	2.24	0.66
42:BQ:20:ALA:O	42:BQ:22:LYS:N	2.29	0.66
45:BT:100:TYR:HD2	45:BT:103:ARG:HH21	1.41	0.66
51:BZ:128:VAL:HG22	51:BZ:161:VAL:HG22	1.78	0.66
1:CA:84:U:H5	1:CA:88:A:C8	2.14	0.66
1:CA:1228:C:P	13:CM:108:ARG:HH22	2.18	0.66
2:CB:167:PRO:HG3	2:CB:188:ALA:HB2	1.77	0.66
5:CE:68:GLU:O	5:CE:68:GLU:HG3	1.95	0.66
9:CI:82:ALA:HB1	9:CI:96:LEU:HD11	1.77	0.66
22:D0:20:ARG:NH1	31:DA:2357:U:OP1	2.28	0.66
24:D2:29:LYS:NZ	49:DX:9:LEU:HA	2.10	0.66
30:D8:34:TRP:HZ3	30:D8:41:ILE:HG23	1.61	0.66
31:DA:806:C:P	41:DP:39:LYS:HG3	2.36	0.66
31:DA:869:G:H2'	31:DA:870:A:O4'	1.96	0.66
31:DA:1303:G:H1'	31:DA:1641:A:N1	2.11	0.66
31:DA:2053:G:H1	31:DA:2616:C:H42	1.43	0.66
33:DD:3:VAL:H	33:DD:20:ASP:HB2	1.59	0.66
33:DD:16:MET:HB2	33:DD:207:GLY:HA3	1.78	0.66
37:DH:20:ALA:HB3	37:DH:23:ARG:HB2	1.75	0.66
41:DP:33:ARG:O	41:DP:34:GLY:C	2.33	0.66
48:DW:17:VAL:O	48:DW:20:VAL:HG22	1.95	0.66
1:AA:192:U:O4'	20:AT:103:GLY:HA2	1.96	0.66
1:AA:665:A:H2'	1:AA:732:C:O2	1.96	0.66
1:AA:920:U:H1'	1:AA:1080:A:C2	2.30	0.66
1:AA:1098:C:C2	1:AA:1099:G:C8	2.83	0.66
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.19	0.66
4:AD:106:TYR:HE1	4:AD:112:VAL:O	1.79	0.66
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.60	0.66
6:AF:96:PRO:HA	18:AR:32:ARG:HG2	1.78	0.66
9:AI:82:ALA:HB1	9:AI:96:LEU:HD11	1.76	0.66
26:B4:25:TYR:HA	36:BG:109:VAL:CG2	2.18	0.66
31:BA:2418:A:H2'	31:BA:2419:U:H6	1.61	0.66
31:BA:2641:G:OP1	39:BN:83:LYS:HD3	1.96	0.66
31:BA:2854:G:H2'	31:BA:2855:C:C6	2.30	0.66
38:BI:98:ALA:HA	38:BI:109:ILE:HD13	1.78	0.66
42:BQ:20:ALA:CB	42:BQ:99:PRO:HG2	2.26	0.66
48:BW:92:ARG:O	48:BW:93:ALA:HB3	1.94	0.66
49:BX:81:VAL:HG13	49:BX:85:PRO:HB2	1.77	0.66
50:BY:44:ILE:HG22	50:BY:45:VAL:N	2.10	0.66
1:CA:109:A:C6	1:CA:326:G:C6	2.84	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:503:C:H2'	1:CA:504:C:H6	1.61	0.66
1:CA:814:A:N7	1:CA:816:A:C4	2.64	0.66
1:CA:818:G:H3'	1:CA:819:A:H5'	1.76	0.66
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.95	0.66
4:CD:209:ARG:HG2	4:CD:209:ARG:NH1	2.11	0.66
6:CF:18:GLN:HA	6:CF:21:LEU:HB2	1.76	0.66
23:D1:11:ARG:HB3	23:D1:12:PRO:HD3	1.77	0.66
23:D1:26:ARG:HB3	23:D1:34:THR:CA	2.26	0.66
23:D1:26:ARG:HB2	23:D1:34:THR:HB	1.78	0.66
25:D3:52:HIS:CD2	25:D3:52:HIS:H	2.13	0.66
29:D7:16:HIS:HB2	29:D7:44:PRO:HG2	1.76	0.66
30:D8:25:MET:HB2	41:DP:62:LEU:CD2	2.25	0.66
31:DA:65:C:H2'	31:DA:66:C:C6	2.30	0.66
31:DA:795:C:H2'	31:DA:796:C:C6	2.31	0.66
31:DA:2328:A:H2'	31:DA:2329:G:O4'	1.96	0.66
31:DA:2471:C:H3'	31:DA:2472:G:H5''	1.77	0.66
31:DA:2500:U:H5''	31:DA:2501:C:OP2	1.95	0.66
31:DA:2850:A:OP2	31:DA:2866:U:H5	1.77	0.66
33:DD:210:GLY:O	33:DD:212:SER:N	2.28	0.66
41:DP:64:LYS:O	41:DP:66:GLY:N	2.29	0.66
4:AD:10:ARG:HH11	4:AD:10:ARG:HG2	1.60	0.66
4:AD:11:LEU:N	4:AD:11:LEU:HD23	2.11	0.66
31:BA:543:C:H6	31:BA:547:A:N7	1.95	0.66
31:BA:848:G:H2'	31:BA:849:A:H8	1.61	0.66
31:BA:1653:G:H4'	31:BA:1654:A:O5'	1.96	0.66
31:BA:1748:G:H8	31:BA:1748:G:H5'	1.60	0.66
31:BA:1889:A:N1	31:BA:2234:G:H1'	2.11	0.66
31:BA:2364:C:O2'	31:BA:2365:G:H5'	1.96	0.66
50:BY:96:ILE:HG13	50:BY:99:CYS:SG	2.35	0.66
1:CA:738:C:H5''	6:CF:2:ARG:NH1	2.11	0.66
1:CA:1012:U:O5'	1:CA:1012:U:H6	1.79	0.66
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.11	0.66
1:CA:1256:A:O3'	1:CA:1257:U:H4'	1.96	0.66
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.77	0.66
3:CC:53:ALA:O	3:CC:54:ARG:HB2	1.96	0.66
11:CK:25:TYR:OH	11:CK:87:THR:HB	1.96	0.66
31:DA:676:A:N1	31:DA:802:A:N1	2.44	0.66
31:DA:1741:A:H2'	31:DA:1742:G:C2	2.31	0.66
32:DB:20:C:C2'	32:DB:21:G:H5''	2.26	0.66
33:DD:130:ALA:C	33:DD:131:LEU:HD12	2.17	0.66
37:DH:85:LYS:CD	37:DH:133:VAL:HB	2.24	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:18:TYR:HA	49:DX:21:PHE:CE1	2.31	0.66
1:AA:322:C:H4'	20:AT:23:ARG:HD2	1.78	0.65
1:AA:779:C:C2'	1:AA:780:A:H5'	2.26	0.65
1:AA:997:U:H2'	1:AA:998:G:C8	2.31	0.65
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	1.96	0.65
23:B1:37:ILE:HG21	31:BA:2080:G:P	2.36	0.65
31:BA:212:G:C2'	31:BA:213:A:H5'	2.26	0.65
31:BA:1952:A:C6	40:BO:22:ILE:HD11	2.30	0.65
31:BA:2542:A:H8	31:BA:2544:G:O6	1.77	0.65
31:BA:2864:G:H2'	31:BA:2865:U:O4'	1.97	0.65
32:BB:38:C:C5	32:BB:39:A:C8	2.84	0.65
33:BD:58:HIS:CD2	33:BD:59:LYS:N	2.65	0.65
35:BF:20:LEU:HD13	35:BF:199:TRP:HH2	1.61	0.65
35:BF:203:GLN:HA	35:BF:206:ILE:O	1.96	0.65
36:BG:26:GLN:N	36:BG:30:GLU:OE1	2.26	0.65
37:BH:126:PRO:CG	37:BH:130:ARG:HB3	2.26	0.65
41:BP:83:VAL:HG12	41:BP:112:LEU:HD21	1.77	0.65
1:CA:509:A:H3'	1:CA:509:A:OP2	1.96	0.65
1:CA:669:U:C2	1:CA:670:G:C8	2.84	0.65
1:CA:820:U:H4'	1:CA:821:G:OP2	1.96	0.65
5:CE:7:GLU:HB3	5:CE:112:LEU:HD13	1.77	0.65
7:CG:15:ASP:H	7:CG:20:ASP:H	1.41	0.65
8:CH:28:ALA:HA	8:CH:59:LEU:HG	1.76	0.65
28:D6:15:GLU:OE1	28:D6:18:ARG:CG	2.42	0.65
31:DA:542:C:C4	31:DA:543:C:N4	2.64	0.65
31:DA:610:G:H2'	31:DA:611:C:C6	2.30	0.65
31:DA:614(A):U:H4'	31:DA:614(B):G:H5''	1.77	0.65
31:DA:754:C:H2'	31:DA:755:C:H6	1.60	0.65
31:DA:963:U:H1'	31:DA:2250:G:O6	1.96	0.65
36:DG:173:LEU:HA	36:DG:176:LEU:HB2	1.77	0.65
38:DI:88:ILE:CG1	38:DI:121:LYS:HA	2.17	0.65
42:DQ:16:ARG:HG2	42:DQ:17:LEU:N	2.11	0.65
44:DS:38:GLN:HG2	44:DS:47:THR:HG21	1.78	0.65
51:DZ:117:LEU:HA	51:DZ:174:VAL:HA	1.77	0.65
1:AA:353:A:H5'	1:AA:353:A:H8	1.61	0.65
1:AA:619:U:H2'	4:AD:135:LEU:CD2	2.26	0.65
1:AA:687:A:C2	1:AA:704:A:C6	2.85	0.65
7:AG:15:ASP:HB3	7:AG:19:GLY:H	1.61	0.65
22:B0:26:TYR:CE2	31:BA:857:C:H1'	2.31	0.65
31:BA:208:C:H2'	31:BA:209:C:H6	1.59	0.65
31:BA:661:C:H4'	41:BP:18:ARG:HG2	1.78	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1819:A:H4'	31:BA:1820:U:O5'	1.97	0.65
31:BA:2476:A:C2	31:BA:2477:C:C6	2.84	0.65
33:BD:255:LYS:N	33:BD:255:LYS:HZ1	1.94	0.65
38:BI:69:LYS:HE2	38:BI:73:GLU:OE1	1.96	0.65
39:BN:47:ALA:HB2	39:BN:112:LEU:CD2	2.27	0.65
45:BT:33:LYS:HZ2	45:BT:33:LYS:H	1.42	0.65
48:BW:75:TYR:CD1	48:BW:104:THR:HB	2.31	0.65
1:CA:561:U:O2'	1:CA:562:C:P	2.54	0.65
1:CA:592:G:H1	1:CA:647:C:H42	1.44	0.65
1:CA:963:G:N3	10:CJ:55:LYS:NZ	2.44	0.65
1:CA:1316:G:H2'	1:CA:1317:C:H5''	1.77	0.65
8:CH:107:LEU:N	8:CH:107:LEU:HD23	2.10	0.65
28:D6:26:ASN:HD22	28:D6:32:ASN:HD21	1.42	0.65
31:DA:1386:C:H2'	31:DA:1387:C:C6	2.32	0.65
31:DA:1987:G:H2'	31:DA:1988:C:C6	2.31	0.65
31:DA:2360:A:O2'	31:DA:2361:A:OP2	2.14	0.65
31:DA:2364:C:O2'	31:DA:2365:G:H5'	1.96	0.65
31:DA:2471:C:O2	31:DA:2472:G:O4'	2.14	0.65
31:DA:2756:U:H4'	31:DA:2757:A:OP1	1.95	0.65
36:DG:5:VAL:O	36:DG:7:LEU:N	2.30	0.65
42:DQ:140:ALA:O	51:DZ:53:ILE:HB	1.96	0.65
45:DT:55:ASN:O	45:DT:57:PHE:N	2.29	0.65
49:DX:36:LYS:HZ2	49:DX:39:ILE:CA	2.09	0.65
50:DY:18:GLY:O	50:DY:20:TYR:N	2.29	0.65
1:AA:625:G:H2'	1:AA:626:U:H6	1.61	0.65
1:AA:949:A:H1'	1:AA:1364:U:N3	2.11	0.65
8:AH:87:SER:HA	8:AH:93:VAL:HG23	1.78	0.65
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	1.94	0.65
25:B3:8:LEU:CD1	25:B3:31:LEU:HA	2.27	0.65
31:BA:1773:A:H2'	31:BA:1774:C:C5'	2.26	0.65
31:BA:2464:C:O2'	31:BA:2465:C:C5'	2.45	0.65
34:BE:203:LYS:HG3	34:BE:204:ALA:N	2.10	0.65
36:BG:5:VAL:O	36:BG:7:LEU:N	2.29	0.65
41:BP:140:ALA:HB1	25:D3:1:MET:HG2	1.77	0.65
43:BR:53:HIS:CD2	43:BR:94:TYR:OH	2.50	0.65
44:BS:89:ARG:HB3	44:BS:92:TYR:HB3	1.75	0.65
45:BT:10:VAL:HG12	45:BT:11:GLU:N	2.12	0.65
45:BT:65:LYS:CE	45:BT:66:VAL:H	2.07	0.65
51:BZ:165:VAL:HG12	51:BZ:166:SER:N	2.11	0.65
1:CA:598:U:H4'	8:CH:94:TYR:CD2	2.31	0.65
5:CE:68:GLU:O	5:CE:70:PRO:HD3	1.96	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:52:GLY:H	11:CK:55:LYS:HG3	1.61	0.65
11:CK:69:ALA:HB1	11:CK:103:LEU:HD23	1.77	0.65
31:DA:814:C:C5	41:DP:27:HIS:CE1	2.85	0.65
31:DA:1114:G:H2'	31:DA:1115:G:H8	1.61	0.65
31:DA:1130:U:O2	31:DA:2025:C:H5''	1.96	0.65
31:DA:2199:A:H2'	31:DA:2199:A:N3	2.10	0.65
31:DA:2282:G:H4'	31:DA:2283:C:O5'	1.96	0.65
31:DA:2699:C:H2'	31:DA:2700:C:O4'	1.96	0.65
37:DH:122:THR:HB	37:DH:134:SER:HB2	1.78	0.65
38:DI:91:SER:HB2	38:DI:119:PRO:O	1.96	0.65
39:DN:14:VAL:HG12	39:DN:52:VAL:HA	1.78	0.65
40:DO:2:ILE:HD12	40:DO:6:THR:HG21	1.77	0.65
46:DU:83:LEU:C	46:DU:88:ILE:HD11	2.16	0.65
46:DU:90:VAL:O	46:DU:92:ARG:N	2.29	0.65
1:AA:59:A:H1'	1:AA:354:G:N2	2.10	0.65
1:AA:568:G:O6	12:AL:5:PRO:HD3	1.96	0.65
1:AA:1064:G:H1'	1:AA:1065:U:OP2	1.97	0.65
3:AC:19:GLU:HG3	3:AC:54:ARG:HG3	1.78	0.65
5:AE:68:GLU:O	5:AE:70:PRO:HD3	1.96	0.65
9:AI:113:LYS:H	9:AI:119:ALA:HA	1.60	0.65
11:AK:111:ASP:C	18:AR:84:LYS:HE2	2.16	0.65
18:AR:52:PRO:O	18:AR:56:THR:HG23	1.96	0.65
22:B0:11:ARG:O	22:B0:14:ARG:NH2	2.29	0.65
27:B5:2:ALA:N	31:BA:747:U:C4	2.64	0.65
31:BA:479:A:H4'	31:BA:480:A:OP1	1.96	0.65
31:BA:812:C:H1'	31:BA:1250:G:C2	2.31	0.65
31:BA:1114:G:H2'	31:BA:1115:G:H8	1.61	0.65
31:BA:1484:G:N1	31:BA:1506:C:N4	2.45	0.65
31:BA:1557:C:OP2	31:BA:1558:A:O2'	2.13	0.65
31:BA:2311:A:OP1	31:BA:2312:U:C5	2.49	0.65
32:BB:35:U:C4	32:BB:36:C:N4	2.64	0.65
33:BD:35:LYS:HG2	33:BD:64:ILE:N	2.11	0.65
37:BH:122:THR:HB	37:BH:134:SER:HB2	1.79	0.65
37:BH:158:HIS:CE1	37:BH:168:PRO:HG2	2.31	0.65
38:BI:72:LEU:HD12	38:BI:138:ILE:HG23	1.78	0.65
46:BU:83:LEU:C	46:BU:88:ILE:HD11	2.17	0.65
46:BU:88:ILE:O	46:BU:88:ILE:HD13	1.96	0.65
47:BV:50:PRO:O	47:BV:51:VAL:O	2.15	0.65
48:BW:95:ILE:O	48:BW:95:ILE:HG13	1.95	0.65
1:CA:243:A:H4'	1:CA:244:U:O5'	1.97	0.65
1:CA:673:G:C5'	6:CF:87:ARG:HE	2.09	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:923:A:C8	1:CA:1398:A:H2	2.14	0.65
1:CA:949:A:H61	1:CA:1232:U:H3	1.42	0.65
4:CD:148:VAL:CG1	4:CD:149:ALA:N	2.59	0.65
5:CE:88:LYS:HB3	5:CE:123:LEU:HB2	1.77	0.65
15:CO:3:ILE:O	15:CO:3:ILE:HG12	1.97	0.65
31:DA:286:C:N4	31:DA:355:G:H1	1.94	0.65
31:DA:528:A:C2	31:DA:2043:C:H4'	2.31	0.65
31:DA:607:U:O2	31:DA:621:A:N1	2.30	0.65
31:DA:1648:C:C2'	31:DA:1649:G:O5'	2.44	0.65
31:DA:1797:C:H2'	31:DA:1798:U:H5'	1.78	0.65
36:DG:173:LEU:HB3	36:DG:178:PHE:CD1	2.31	0.65
37:DH:52:VAL:HG11	37:DH:69:ARG:HG3	1.76	0.65
38:DI:54:GLN:HA	38:DI:57:ARG:HH12	1.62	0.65
38:DI:101:LEU:CG	38:DI:109:ILE:HG12	2.26	0.65
42:DQ:32:TYR:CE2	42:DQ:133:ARG:HG2	2.31	0.65
44:DS:52:SER:OG	44:DS:55:ALA:HB3	1.97	0.65
47:DV:6:LYS:HA	47:DV:11:GLN:HA	1.79	0.65
50:DY:95:LYS:HD3	50:DY:100:ALA:CB	2.26	0.65
1:AA:250:A:H1'	1:AA:251:G:OP2	1.97	0.65
1:AA:543:C:C2'	1:AA:544:G:H5'	2.26	0.65
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.23	0.65
5:AE:72:GLN:O	5:AE:73:ASN:HB2	1.96	0.65
31:BA:1430:C:H2'	31:BA:1431:U:H6	1.60	0.65
31:BA:1474:C:H5''	31:BA:1474:C:C6	2.31	0.65
31:BA:1515:G:H2'	31:BA:1516:C:H6	1.61	0.65
31:BA:1648:C:C2'	31:BA:1649:G:O5'	2.45	0.65
31:BA:2267:A:H5''	31:BA:2268:A:H5''	1.77	0.65
31:BA:2580:U:H4'	34:BE:130:GLY:CA	2.27	0.65
31:BA:2886:G:C4	31:BA:2887:U:C5	2.84	0.65
40:BO:88:ASN:O	40:BO:91:LEU:N	2.26	0.65
40:BO:114:ILE:N	40:BO:114:ILE:HD13	2.12	0.65
41:BP:41:ARG:HA	41:BP:41:ARG:HH21	1.61	0.65
42:BQ:140:ALA:O	51:BZ:53:ILE:HB	1.95	0.65
46:BU:102:GLU:HG3	47:BV:2:PHE:CE2	2.31	0.65
47:BV:64:HIS:O	47:BV:64:HIS:CG	2.45	0.65
1:CA:948:C:OP1	13:CM:107:ALA:HA	1.96	0.65
3:CC:138:VAL:HG23	3:CC:151:VAL:HG23	1.77	0.65
8:CH:1:MET:H3	8:CH:1:MET:CE	2.06	0.65
13:CM:44:ARG:CB	13:CM:46:LYS:HG2	2.24	0.65
23:D1:46:LEU:HD12	23:D1:46:LEU:N	2.11	0.65
27:D5:55:ARG:C	27:D5:56:LYS:HG3	2.17	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:615:G:OP1	35:DF:40:GLN:NE2	2.28	0.65
31:DA:1330:C:O2'	31:DA:1331:A:H5'	1.95	0.65
31:DA:2660:A:C5'	31:DA:2661:G:H21	2.10	0.65
33:DD:44:ASN:HB3	33:DD:49:ILE:CA	2.25	0.65
40:DO:10:VAL:HG22	40:DO:17:ARG:O	1.96	0.65
44:DS:36:TYR:N	44:DS:36:TYR:HD1	1.92	0.65
45:DT:89:VAL:O	45:DT:91:ARG:HG3	1.97	0.65
49:DX:81:VAL:HG13	49:DX:85:PRO:HB2	1.77	0.65
1:AA:308:C:H2'	1:AA:309:G:H8	1.62	0.65
1:AA:828:A:H2'	1:AA:829:G:O4'	1.96	0.65
1:AA:862:C:H2'	1:AA:863:U:C5'	2.24	0.65
1:AA:865:A:H2	1:AA:918:A:H4'	1.62	0.65
30:B8:43:GLN:C	30:B8:44:LYS:HD2	2.17	0.65
31:BA:387:U:H4'	31:BA:388:G:O5'	1.95	0.65
31:BA:1569:A:H5'	33:BD:61:LEU:CD2	2.26	0.65
31:BA:2500:U:H5''	31:BA:2501:C:OP2	1.96	0.65
31:BA:2762:G:C2'	31:BA:2763:G:H5'	2.25	0.65
32:BB:37:C:O2	32:BB:38:C:C2	2.50	0.65
35:BF:124:LEU:HD12	35:BF:125:LEU:N	2.11	0.65
35:BF:182:ASN:O	35:BF:186:ILE:HG13	1.96	0.65
41:BP:121:LYS:HA	25:D3:2:PRO:HD2	1.79	0.65
45:BT:25:GLY:O	45:BT:26:ASP:HB2	1.94	0.65
51:BZ:19:ARG:HG2	51:BZ:19:ARG:NH1	2.03	0.65
1:CA:194:C:H2'	1:CA:195:A:H5''	1.78	0.65
7:CG:70:LYS:HB3	7:CG:96:GLN:OE1	1.96	0.65
23:D1:13:ILE:O	23:D1:14:VAL:HB	1.94	0.65
31:DA:572:A:H2'	31:DA:573:G:O4'	1.96	0.65
31:DA:642:G:H21	31:DA:646:A:H2	1.42	0.65
31:DA:1493:C:H2'	31:DA:1493:C:O2	1.97	0.65
31:DA:2658:C:O2	31:DA:2658:C:H2'	1.96	0.65
34:DE:51:PHE:O	34:DE:52:LEU:HD12	1.96	0.65
37:DH:164:TYR:HB2	37:DH:166:GLY:H	1.62	0.65
42:DQ:23:GLY:O	42:DQ:100:GLY:HA3	1.97	0.65
1:AA:818:G:C2	1:AA:820:U:O2'	2.49	0.65
2:AB:158:LEU:H	2:AB:158:LEU:HD12	1.62	0.65
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.78	0.65
7:AG:54:THR:OG1	7:AG:56:GLN:HB2	1.96	0.65
11:AK:18:ARG:HH21	11:AK:37:GLY:HA2	1.60	0.65
13:AM:92:HIS:CE1	13:AM:98:VAL:HG23	2.32	0.65
24:B2:46:GLN:HG2	24:B2:47:ASN:N	2.11	0.65
27:B5:40:LYS:HE2	27:B5:46:CYS:HB3	1.79	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B6:35:GLU:O	28:B6:35:GLU:HG3	1.95	0.65
31:BA:419:C:H2'	31:BA:420:C:O4'	1.97	0.65
31:BA:958:U:H5''	42:BQ:14:ARG:HD3	1.79	0.65
31:BA:1686:C:C2'	31:BA:1687:G:H5'	2.27	0.65
31:BA:2287:A:C2	31:BA:2289:G:N9	2.65	0.65
31:BA:2464:C:O2'	31:BA:2465:C:P	2.55	0.65
36:BG:64:THR:CG2	36:BG:65:GLY:H	2.09	0.65
42:BQ:41:TRP:HB3	42:BQ:94:VAL:HB	1.78	0.65
49:BX:53:LYS:N	49:BX:80:ILE:HG22	2.11	0.65
49:BX:65:ARG:CZ	49:BX:66:LEU:H	2.09	0.65
1:CA:93:G:C2'	1:CA:96:U:H5'	2.26	0.65
1:CA:191:G:H1'	20:CT:105:SER:HA	1.79	0.65
1:CA:376:G:OP2	16:CP:67:THR:HG21	1.96	0.65
1:CA:1098:C:C2	1:CA:1099:G:C8	2.84	0.65
1:CA:1287:A:C2	1:CA:1353:G:H1'	2.32	0.65
16:CP:51:VAL:CG1	16:CP:52:ASP:N	2.60	0.65
30:D8:52:LYS:H	30:D8:53:PRO:HD2	1.62	0.65
31:DA:1196:C:O4'	31:DA:1226:A:C2	2.50	0.65
31:DA:1340:U:H4'	31:DA:1394:U:O2'	1.97	0.65
31:DA:1485:G:N2	31:DA:1505:C:C5	2.65	0.65
31:DA:1504:C:O2'	31:DA:1505:C:C5'	2.44	0.65
31:DA:1515:G:H2'	31:DA:1516:C:H6	1.62	0.65
31:DA:1636:C:H2'	31:DA:1637:A:C8	2.32	0.65
31:DA:2347:C:H2'	31:DA:2348:U:C6	2.31	0.65
33:DD:69:ARG:HH12	33:DD:117:VAL:CG2	2.09	0.65
37:DH:103:LEU:HD23	37:DH:115:VAL:HB	1.78	0.65
38:DI:5:LEU:HD12	38:DI:17:GLN:HB3	1.79	0.65
42:DQ:8:LYS:CG	42:DQ:9:TYR:H	2.10	0.65
42:DQ:29:PHE:O	42:DQ:30:GLY:O	2.15	0.65
45:DT:106:SER:HB2	45:DT:110:ILE:HD11	1.79	0.65
1:AA:106:C:H2'	1:AA:107:G:H8	1.61	0.65
1:AA:737:A:H2'	1:AA:738:C:H6	1.57	0.65
31:BA:125:G:H4'	31:BA:126:A:OP2	1.96	0.65
31:BA:1140:C:OP1	39:BN:23:LEU:O	2.14	0.65
31:BA:1348:G:H2'	31:BA:1349:A:H5''	1.78	0.65
31:BA:1497:U:N3	31:BA:1578:U:O5'	2.30	0.65
31:BA:1544:A:O3'	31:BA:1544:A:N3	2.30	0.65
31:BA:2205:C:O2	31:BA:2220:G:C2	2.49	0.65
31:BA:2335:A:O2'	31:BA:2336:A:H5''	1.97	0.65
33:BD:218:ARG:HB3	33:BD:219:PRO:HD2	1.79	0.65
34:BE:27:LEU:HD22	45:BT:1:MET:HE3	1.78	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:73:SER:O	47:BV:74:LYS:HB2	1.96	0.65
50:BY:77:PRO:O	50:BY:99:CYS:SG	2.54	0.65
50:BY:95:LYS:HE2	50:BY:101:LYS:N	2.06	0.65
51:BZ:39:VAL:HG21	51:BZ:44:PHE:HB2	1.78	0.65
1:CA:632:A:C8	1:CA:633:G:C8	2.84	0.65
1:CA:774:G:O2'	1:CA:775:G:H5'	1.95	0.65
4:CD:18:LYS:HD2	4:CD:33:MET:CG	2.24	0.65
19:CS:42:PRO:O	19:CS:43:GLU:HB3	1.97	0.65
23:D1:92:LYS:C	23:D1:94:LEU:N	2.47	0.65
26:D4:5:ILE:C	36:DG:67:LYS:HG2	2.18	0.65
31:DA:838:C:O2'	31:DA:839:U:H5'	1.97	0.65
31:DA:980:A:C6	31:DA:981:A:N1	2.65	0.65
31:DA:1114:G:O2'	31:DA:1115:G:H5'	1.97	0.65
31:DA:2012:G:O3'	48:DW:96:ILE:HG13	1.97	0.65
31:DA:2666:C:H6	31:DA:2666:C:H5''	1.62	0.65
31:DA:2762:G:C2'	31:DA:2763:G:H5'	2.27	0.65
32:DB:67:G:C4	32:DB:68:C:C5	2.83	0.65
35:DF:124:LEU:HD12	35:DF:125:LEU:N	2.11	0.65
39:DN:57:ALA:O	39:DN:58:ASP:O	2.15	0.65
40:DO:35:VAL:HA	40:DO:62:VAL:HG12	1.79	0.65
47:DV:64:HIS:CG	47:DV:64:HIS:O	2.49	0.65
50:DY:27:VAL:O	50:DY:29:GLU:OE1	2.15	0.65
1:AA:66:G:C4'	1:AA:173:U:C5	2.80	0.65
1:AA:339:C:OP2	40:BO:97:ARG:NH1	2.30	0.65
1:AA:1074:G:O2'	1:AA:1101:A:N1	2.27	0.65
30:B8:61:LEU:HD22	31:BA:593:G:O3'	1.97	0.65
31:BA:1114:G:O2'	31:BA:1115:G:H5'	1.96	0.65
31:BA:1683:C:H2'	31:BA:1684:C:C6	2.30	0.65
31:BA:1719:G:O2'	31:BA:1720:U:H5'	1.97	0.65
35:BF:132:VAL:HG22	35:BF:133:ASN:H	1.60	0.65
36:BG:37:VAL:HG21	36:BG:103:LEU:HD11	1.77	0.65
42:BQ:34:LEU:HD11	42:BQ:129:THR:HB	1.79	0.65
42:BQ:39:PRO:HA	42:BQ:97:VAL:O	1.96	0.65
43:BR:2:ARG:HD2	43:BR:2:ARG:N	2.12	0.65
47:BV:66:ARG:HH11	47:BV:68:LYS:H	1.45	0.65
49:BX:38:GLU:N	49:BX:38:GLU:OE1	2.30	0.65
50:BY:95:LYS:HD3	50:BY:100:ALA:CB	2.25	0.65
2:CB:64:ARG:O	2:CB:64:ARG:HG3	1.97	0.65
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.21	0.65
11:CK:111:ASP:C	18:CR:84:LYS:HE2	2.17	0.65
12:CL:70:ILE:HG12	12:CL:100:ILE:HD12	1.78	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:66:ALA:O	20:CT:71:THR:HB	1.96	0.65
22:D0:40:GLN:HE21	22:D0:43:THR:HA	1.61	0.65
25:D3:8:LEU:CD1	25:D3:31:LEU:HA	2.25	0.65
30:D8:52:LYS:N	30:D8:53:PRO:CD	2.59	0.65
31:DA:271(P):C:C5'	38:DI:45:LYS:HE3	2.27	0.65
31:DA:557:U:O2'	31:DA:558:G:H5'	1.96	0.65
31:DA:767:U:O2'	31:DA:768:G:H5'	1.97	0.65
31:DA:1773:A:H2'	31:DA:1774:C:C5'	2.27	0.65
31:DA:2377:A:H4'	44:DS:107:GLU:HG2	1.77	0.65
31:DA:2660:A:H5''	31:DA:2661:G:C2	2.32	0.65
35:DF:21:ALA:HB3	35:DF:23:ASP:OD2	1.96	0.65
37:DH:148:ILE:O	37:DH:151:ILE:HG12	1.97	0.65
38:DI:109:ILE:HD12	38:DI:109:ILE:N	2.12	0.65
43:DR:104:ARG:HD3	43:DR:109:ALA:HB3	1.79	0.65
44:DS:13:ARG:O	44:DS:15:ARG:HG3	1.97	0.65
47:DV:73:SER:HG	47:DV:75:PHE:HE1	1.39	0.65
47:DV:73:SER:OG	47:DV:74:LYS:N	2.28	0.65
50:DY:95:LYS:HE2	50:DY:101:LYS:N	2.09	0.65
51:DZ:52:SER:OG	51:DZ:53:ILE:N	2.30	0.65
1:AA:191:G:H21	20:AT:104:LEU:HA	1.61	0.65
24:B2:52:ASP:H	24:B2:55:ARG:HB2	1.62	0.65
27:B5:32:PRO:O	27:B5:33:CYS:HB3	1.98	0.65
31:BA:598:G:H5'	41:BP:15:ARG:HD2	1.77	0.65
31:BA:1741:A:H2'	31:BA:1742:G:C2	2.32	0.65
31:BA:2399:G:H2'	31:BA:2400:G:O4'	1.96	0.65
31:BA:2598:A:P	33:BD:236:GLY:HA3	2.36	0.65
38:BI:4:ILE:HG12	38:BI:39:ALA:HB2	1.78	0.65
39:BN:115:ARG:HG3	39:BN:115:ARG:NH1	2.12	0.65
44:BS:84:GLN:HA	44:BS:105:ALA:HB3	1.77	0.65
45:BT:57:PHE:C	45:BT:59:THR:H	2.01	0.65
1:CA:920:U:H1'	1:CA:1080:A:C2	2.31	0.65
4:CD:170:VAL:HG22	4:CD:171:GLY:H	1.61	0.65
9:CI:53:VAL:HG13	9:CI:95:LYS:HE3	1.79	0.65
16:CP:50:LYS:C	16:CP:50:LYS:HD3	2.16	0.65
31:DA:228:A:H2'	31:DA:230:U:O4'	1.97	0.65
31:DA:1254:A:H5'	31:DA:1255:U:C5'	2.27	0.65
31:DA:2646:C:O5'	31:DA:2646:C:H6	1.80	0.65
31:DA:2712:U:O2'	31:DA:2712(A):A:OP2	2.10	0.65
32:DB:57:A:C6	36:DG:29:TRP:CD1	2.85	0.65
32:DB:59:A:H2'	32:DB:60:C:O4'	1.96	0.65
33:DD:35:LYS:HA	33:DD:64:ILE:CG2	2.26	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:75:ILE:N	41:DP:75:ILE:HD13	2.12	0.65
46:DU:60:LEU:O	46:DU:64:ARG:HG2	1.96	0.65
49:DX:60:ARG:HD3	49:DX:60:ARG:H	1.62	0.65
50:DY:47:LYS:NZ	50:DY:47:LYS:HB3	2.11	0.65
1:AA:154:C:H2'	1:AA:155:C:H6	1.63	0.64
1:AA:1012:U:O5'	1:AA:1012:U:H6	1.80	0.64
4:AD:33:MET:HE2	4:AD:37:PRO:HA	1.77	0.64
8:AH:104:ARG:O	8:AH:107:LEU:HG	1.96	0.64
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.32	0.64
31:BA:588:U:H2'	31:BA:589:C:C6	2.32	0.64
31:BA:1040:C:N4	31:BA:1116:C:N4	2.45	0.64
31:BA:1235:G:C6	31:BA:1236:G:N1	2.65	0.64
31:BA:1381:G:C2'	31:BA:1382:G:H5'	2.27	0.64
31:BA:1509(A):A:C8	31:BA:1509(B):A:N7	2.65	0.64
31:BA:2283:C:H2'	31:BA:2284:C:H5'	1.78	0.64
31:BA:2642:G:H5''	39:BN:78:TYR:CE1	2.31	0.64
33:BD:94:LEU:HB2	33:BD:104:TYR:CE2	2.32	0.64
38:BI:51:ILE:O	38:BI:55:ALA:HB2	1.97	0.64
38:BI:101:LEU:CG	38:BI:109:ILE:HG12	2.27	0.64
50:BY:46:LYS:C	50:BY:47:LYS:NZ	2.49	0.64
1:CA:44:G:C2	1:CA:45:U:H1'	2.32	0.64
1:CA:166:G:H2'	1:CA:167:G:H8	1.62	0.64
1:CA:437:U:H2'	1:CA:438:G:H5'	1.77	0.64
1:CA:749:C:O2'	1:CA:750:G:H5'	1.97	0.64
1:CA:1368:G:H2'	1:CA:1369:C:H5'	1.79	0.64
16:CP:74:LEU:O	16:CP:79:VAL:HB	1.97	0.64
18:CR:53:ARG:HH21	18:CR:60:ALA:N	1.95	0.64
22:D0:53:MET:HE3	22:D0:57:PHE:HA	1.79	0.64
23:D1:34:THR:HG21	31:DA:388:G:P	2.38	0.64
28:D6:25:LYS:HE2	28:D6:27:LYS:NZ	2.11	0.64
31:DA:574:C:N3	34:DE:145:LYS:CE	2.60	0.64
31:DA:587:C:C5	41:DP:33:ARG:HG2	2.32	0.64
31:DA:945:A:C4	31:DA:2448:A:C2	2.85	0.64
31:DA:1316:U:H2'	31:DA:1317:A:C8	2.31	0.64
31:DA:1812:A:C2	31:DA:1813:G:C4	2.85	0.64
31:DA:1922:G:H2'	31:DA:1923:U:H6	1.61	0.64
31:DA:2547:U:O2'	31:DA:2548:G:H5'	1.97	0.64
1:AA:628:G:H2'	1:AA:629:G:C8	2.32	0.64
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.10	0.64
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.31	0.64
9:AI:53:VAL:HG13	9:AI:95:LYS:HE3	1.79	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:29:PHE:CZ	18:AR:31:LEU:HD22	2.32	0.64
24:B2:49:LYS:CE	24:B2:53:LEU:HD22	2.28	0.64
31:BA:384:U:H2'	31:BA:385:C:H6	1.62	0.64
31:BA:1190:G:O3'	41:BP:35:HIS:HB3	1.97	0.64
31:BA:1899:G:N2	31:BA:1902:C:N4	2.27	0.64
31:BA:1922:G:H2'	31:BA:1923:U:C6	2.32	0.64
34:BE:48:GLN:HE22	34:BE:64:LYS:HZ2	1.46	0.64
39:BN:112:LEU:O	39:BN:112:LEU:HD12	1.96	0.64
39:BN:131:GLN:NE2	39:BN:135:PRO:HD3	2.13	0.64
41:BP:80:TYR:HA	41:BP:111:ARG:O	1.98	0.64
41:BP:107:LYS:O	41:BP:109:GLY:N	2.31	0.64
43:BR:10:LEU:HD22	43:BR:17:ARG:HD3	1.78	0.64
43:BR:10:LEU:HD13	43:BR:17:ARG:NH1	2.12	0.64
44:BS:35:ILE:HD13	44:BS:35:ILE:O	1.96	0.64
45:BT:129:ARG:NH1	45:BT:131:ALA:H	1.95	0.64
1:CA:356:A:H2'	1:CA:357:G:O4'	1.97	0.64
1:CA:522:C:H41	12:CL:53:ARG:HH22	1.44	0.64
1:CA:949:A:H1'	1:CA:1364:U:N3	2.12	0.64
1:CA:1442:G:C5	1:CA:1442(B):A:H2	2.14	0.64
4:CD:11:LEU:HD13	4:CD:66:ARG:HD3	1.80	0.64
7:CG:54:THR:OG1	7:CG:56:GLN:HB2	1.96	0.64
20:CT:97:ALA:O	20:CT:99:LEU:N	2.29	0.64
24:D2:26:ARG:HG2	49:DX:5:TYR:HB3	1.79	0.64
30:D8:35:GLN:NE2	30:D8:36:LYS:NZ	2.45	0.64
31:DA:580:C:H2'	31:DA:581:C:C6	2.32	0.64
31:DA:671:C:H41	41:DP:42:SER:HA	1.62	0.64
31:DA:870:A:C2	31:DA:908:C:C2	2.86	0.64
31:DA:1037:G:H1	31:DA:1118:C:H42	1.44	0.64
31:DA:1495:A:N3	31:DA:1496:A:C2	2.65	0.64
36:DG:135:LEU:HD13	36:DG:155:MET:SD	2.38	0.64
40:DO:19:ILE:HG22	40:DO:43:VAL:HA	1.79	0.64
47:DV:24:LYS:HB2	47:DV:92:THR:CG2	2.27	0.64
47:DV:47:VAL:HG13	47:DV:48:GLY:N	2.10	0.64
47:DV:66:ARG:HE	47:DV:94:LEU:CD1	2.10	0.64
49:DX:72:LYS:CG	49:DX:73:ARG:H	2.11	0.64
3:AC:53:ALA:O	3:AC:54:ARG:HB2	1.98	0.64
31:BA:380:U:H2'	31:BA:381:G:C8	2.33	0.64
31:BA:528:A:O2'	31:BA:529:A:H5'	1.98	0.64
31:BA:1340:U:H4'	31:BA:1394:U:O2'	1.98	0.64
31:BA:1465:G:C4	31:BA:1466:G:C8	2.86	0.64
31:BA:2830:G:H8	31:BA:2830:G:C5'	2.10	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:75:TYR:N	39:BN:75:TYR:CD1	2.65	0.64
42:BQ:141:GLN:NE2	51:BZ:72:ARG:HG2	2.11	0.64
44:BS:28:VAL:HG11	44:BS:97:ARG:HH12	1.62	0.64
47:BV:15:GLU:HB3	47:BV:16:PRO:HD2	1.80	0.64
47:BV:28:GLU:HB2	47:BV:29:PRO:CD	2.23	0.64
47:BV:39:LEU:O	47:BV:40:LEU:HB3	1.98	0.64
50:BY:47:LYS:NZ	50:BY:47:LYS:HB3	2.12	0.64
1:CA:191:G:H21	20:CT:104:LEU:HA	1.61	0.64
1:CA:308:C:H2'	1:CA:309:G:H8	1.61	0.64
4:CD:194:LEU:HB3	4:CD:196:LEU:HD11	1.78	0.64
6:CF:1:MET:O	6:CF:2:ARG:HG3	1.97	0.64
8:CH:109:ILE:HG23	8:CH:137:VAL:HB	1.79	0.64
13:CM:92:HIS:CE1	13:CM:98:VAL:HG23	2.33	0.64
31:DA:322:A:OP2	35:DF:169:ASN:HB2	1.98	0.64
31:DA:706:A:H2'	31:DA:707:G:O4'	1.97	0.64
31:DA:867:C:C5	31:DA:868:U:C5	2.85	0.64
31:DA:993:G:H1'	47:DV:91:TYR:HD1	1.62	0.64
31:DA:1952:A:C6	31:DA:1953:A:N1	2.65	0.64
33:DD:35:LYS:HD3	33:DD:63:ARG:C	2.17	0.64
33:DD:43:ARG:HB2	33:DD:54:ARG:HB2	1.80	0.64
33:DD:92:ILE:HD13	33:DD:104:TYR:CE2	2.32	0.64
36:DG:32:PRO:HB3	36:DG:163:ALA:HB2	1.77	0.64
46:DU:44:ASN:N	46:DU:44:ASN:HD22	1.93	0.64
1:AA:299:G:C6	1:AA:300:A:C6	2.86	0.64
1:AA:1442(A):G:C5	45:BT:118:ARG:HD2	2.33	0.64
2:AB:16:HIS:HD2	2:AB:209:ARG:O	1.79	0.64
2:AB:61:LEU:CD2	2:AB:68:ILE:HD11	2.27	0.64
7:AG:62:PHE:HA	7:AG:124:LEU:HD22	1.79	0.64
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.22	0.64
31:BA:586:A:C2	31:BA:1254:A:C2	2.86	0.64
31:BA:691:C:O2'	31:BA:692:C:H5'	1.97	0.64
31:BA:2470:G:C2	31:BA:2471:C:C6	2.85	0.64
31:BA:2636:U:H4'	34:BE:80:GLU:OE1	1.97	0.64
33:BD:143:HIS:HD2	33:BD:144:ALA:CB	2.10	0.64
45:BT:57:PHE:O	45:BT:59:THR:N	2.30	0.64
45:BT:100:TYR:HD2	45:BT:103:ARG:NH2	1.95	0.64
47:BV:66:ARG:NH1	47:BV:68:LYS:H	1.95	0.64
1:CA:375:U:H5''	16:CP:6:LEU:HD22	1.78	0.64
1:CA:1479:C:O2'	1:CA:1480:G:H5'	1.97	0.64
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.23	0.64
11:CK:23:ALA:HB3	11:CK:86:GLY:O	1.98	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:127:LYS:HA	11:CK:127:LYS:CE	2.28	0.64
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.80	0.64
30:D8:32:LEU:C	30:D8:34:TRP:N	2.50	0.64
31:DA:265:A:H1'	31:DA:266:G:O4'	1.97	0.64
31:DA:325:G:H2'	31:DA:326:G:O4'	1.97	0.64
31:DA:1701:A:H5''	31:DA:1702:G:OP2	1.98	0.64
31:DA:1833:U:H2'	31:DA:1834:U:C6	2.28	0.64
31:DA:2025:C:H2'	31:DA:2026:C:C6	2.33	0.64
31:DA:2273:A:H2'	31:DA:2274:A:C8	2.32	0.64
31:DA:2543:G:H8	31:DA:2543:G:H5'	1.62	0.64
33:DD:34:VAL:O	33:DD:34:VAL:HG13	1.96	0.64
41:DP:39:LYS:C	41:DP:41:ARG:H	2.00	0.64
50:DY:20:TYR:CD2	50:DY:41:GLY:HA2	2.31	0.64
20:AT:50:GLU:HB2	20:AT:100:ILE:CG1	2.28	0.64
23:B1:92:LYS:C	23:B1:94:LEU:N	2.51	0.64
28:B6:26:ASN:HD22	28:B6:32:ASN:HD21	1.43	0.64
28:B6:29:ASN:O	28:B6:30:THR:C	2.34	0.64
28:B6:47:THR:HG22	28:B6:48:VAL:HG12	1.78	0.64
31:BA:271(U):G:O2'	31:BA:271(V):G:H5'	1.97	0.64
31:BA:1832:C:N4	31:BA:1833:U:C4	2.66	0.64
32:BB:59:A:H2'	32:BB:60:C:O4'	1.98	0.64
34:BE:132:HIS:CD2	34:BE:135:HIS:HE1	2.12	0.64
36:BG:108:ASN:O	36:BG:112:PRO:HG2	1.96	0.64
42:BQ:37:LEU:HB2	42:BQ:128:LYS:O	1.98	0.64
1:CA:66:G:C4'	1:CA:173:U:C5	2.81	0.64
1:CA:392:G:H2'	1:CA:393:A:H8	1.60	0.64
1:CA:865:A:C2	1:CA:918:A:H4'	2.33	0.64
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.33	0.64
22:D0:43:THR:O	22:D0:45:PHE:N	2.29	0.64
31:DA:84:A:N1	31:DA:98:G:O2'	2.29	0.64
31:DA:538:G:OP1	39:DN:5:VAL:HG21	1.97	0.64
31:DA:543:C:H6	31:DA:547:A:N7	1.94	0.64
31:DA:573:G:N1	31:DA:2030:A:H3'	2.12	0.64
31:DA:775:G:C4	31:DA:794:G:C8	2.86	0.64
31:DA:858:U:O2	31:DA:2268:A:H2'	1.98	0.64
31:DA:1288:U:C2	31:DA:1327:C:O2	2.51	0.64
31:DA:2762:G:H2'	31:DA:2763:G:H5'	1.80	0.64
35:DF:89:VAL:HG12	35:DF:90:PHE:H	1.62	0.64
39:DN:28:THR:HA	39:DN:106:MET:CE	2.27	0.64
45:DT:129:ARG:NH1	45:DT:131:ALA:H	1.96	0.64
46:DU:92:ARG:CZ	47:DV:11:GLN:H	2.11	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.28	0.64
1:AA:194:C:C2'	1:AA:195:A:H5''	2.28	0.64
1:AA:592:G:H1	1:AA:647:C:H42	1.45	0.64
1:AA:624:C:H2'	1:AA:625:G:H8	1.63	0.64
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.32	0.64
4:AD:30:LYS:C	4:AD:32:ALA:H	2.00	0.64
23:B1:11:ARG:HB3	23:B1:12:PRO:HD3	1.80	0.64
31:BA:118:A:C8	31:BA:119:A:C8	2.86	0.64
31:BA:271(J):C:C3'	31:BA:271(K):U:H5''	2.28	0.64
31:BA:464:U:O2'	31:BA:465:G:H5'	1.98	0.64
31:BA:573:G:O2'	31:BA:574:C:H3'	1.98	0.64
31:BA:695:G:OP1	31:BA:1380:G:H4'	1.95	0.64
31:BA:1040:C:H42	31:BA:1116:C:H42	1.45	0.64
31:BA:1175:U:H4'	31:BA:1176:G:H2'	1.80	0.64
31:BA:1386:C:H2'	31:BA:1387:C:C6	2.33	0.64
41:BP:75:ILE:N	41:BP:75:ILE:HD13	2.13	0.64
42:BQ:141:GLN:HE22	51:BZ:89:PHE:CB	2.11	0.64
1:CA:278:G:O4'	1:CA:282:A:H1'	1.97	0.64
1:CA:533:A:O2'	1:CA:534:U:H5''	1.97	0.64
1:CA:684:A:H2'	1:CA:685:G:C8	2.33	0.64
1:CA:779:C:O2'	1:CA:780:A:H5'	1.97	0.64
1:CA:1059:C:O2	10:CJ:53:PRO:HG3	1.98	0.64
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.33	0.64
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.27	0.64
1:CA:1392:G:C2'	1:CA:1393:U:H5'	2.27	0.64
4:CD:30:LYS:C	4:CD:32:ALA:H	2.01	0.64
4:CD:133:VAL:HG12	4:CD:135:LEU:H	1.63	0.64
23:D1:54:ALA:O	23:D1:55:GLY:C	2.36	0.64
27:D5:46:CYS:SG	27:D5:47:PRO:CD	2.86	0.64
31:DA:30:G:H2'	31:DA:31:C:C6	2.33	0.64
31:DA:1509(A):A:C8	31:DA:1509(B):A:N7	2.65	0.64
31:DA:1786:A:C2	31:DA:2606:C:H1'	2.33	0.64
31:DA:1858:G:H1'	31:DA:1884:A:N6	2.13	0.64
31:DA:2283:C:H2'	31:DA:2284:C:H5'	1.78	0.64
31:DA:2536:G:C6	31:DA:2537:U:C4	2.86	0.64
31:DA:2884:U:C6	31:DA:2885:C:C6	2.84	0.64
55:DA:3320:TEL:O32	55:DA:3320:TEL:C13	2.46	0.64
41:DP:30:THR:CG2	41:DP:31:ALA:H	2.09	0.64
41:DP:123:LEU:HD12	41:DP:123:LEU:O	1.96	0.64
47:DV:62:LEU:HD22	47:DV:98:GLU:CB	2.28	0.64
48:DW:13:SER:HB3	48:DW:16:LYS:HD3	1.77	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:52:VAL:HB	49:DX:80:ILE:CG2	2.27	0.64
1:AA:93:G:C2'	1:AA:96:U:H5'	2.27	0.64
15:AO:51:HIS:O	15:AO:54:ARG:HB3	1.98	0.64
15:AO:63:ARG:HG2	15:AO:67:LEU:HD12	1.80	0.64
20:AT:13:LEU:H	20:AT:13:LEU:CD1	2.04	0.64
30:B8:32:LEU:O	30:B8:33:ASN:CB	2.45	0.64
31:BA:1181:C:C2'	31:BA:1182:A:H5'	2.27	0.64
31:BA:1287:A:H5''	31:BA:1288:U:OP2	1.97	0.64
34:BE:32:PRO:O	34:BE:34:VAL:HG12	1.98	0.64
34:BE:132:HIS:CG	34:BE:135:HIS:NE2	2.65	0.64
35:BF:28:ILE:H	35:BF:28:ILE:HD12	1.62	0.64
36:BG:64:THR:CG2	36:BG:65:GLY:N	2.60	0.64
41:BP:90:ARG:O	41:BP:91:PHE:HB3	1.98	0.64
47:BV:24:LYS:HB2	47:BV:92:THR:CG2	2.28	0.64
49:BX:63:LYS:HE3	49:BX:70:LEU:HD22	1.80	0.64
4:CD:172:PRO:HB2	4:CD:187:ARG:NH2	2.13	0.64
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.46	0.64
23:D1:20:ARG:HH21	23:D1:20:ARG:HG2	1.63	0.64
31:DA:128:C:H2'	31:DA:129:C:C6	2.31	0.64
31:DA:298:G:H8	31:DA:298:G:O5'	1.81	0.64
31:DA:774:A:C2	31:DA:787:U:O2'	2.41	0.64
31:DA:814:C:C5	41:DP:27:HIS:NE2	2.65	0.64
31:DA:1245:G:H5''	41:DP:16:ARG:HH21	1.62	0.64
31:DA:2388:A:H2'	31:DA:2389:G:H5'	1.78	0.64
31:DA:2772:C:H2'	31:DA:2773:C:C6	2.32	0.64
31:DA:2811:G:N2	31:DA:2891:G:H1'	2.12	0.64
31:DA:2830:G:C8	31:DA:2830:G:C5'	2.80	0.64
31:DA:2880:C:H1'	43:DR:92:GLY:O	1.98	0.64
33:DD:105:ILE:HG13	33:DD:106:ILE:O	1.97	0.64
34:DE:27:LEU:HD22	45:DT:1:MET:HE3	1.80	0.64
48:DW:95:ILE:O	48:DW:95:ILE:HG13	1.98	0.64
1:AA:437:U:H2'	1:AA:438:G:H5'	1.79	0.64
1:AA:537:G:H2'	1:AA:538:G:C8	2.33	0.64
1:AA:658:G:H2'	1:AA:659:U:H6	1.62	0.64
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.80	0.64
23:B1:88:LYS:O	23:B1:92:LYS:HB2	1.97	0.64
24:B2:26:ARG:N	24:B2:26:ARG:HD2	2.09	0.64
24:B2:49:LYS:C	24:B2:53:LEU:HB3	2.17	0.64
31:BA:1141:U:OP1	39:BN:25:ARG:NH1	2.31	0.64
31:BA:1303:G:H1'	31:BA:1641:A:N1	2.13	0.64
31:BA:1657:C:H2'	31:BA:1658:C:C6	2.33	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2327:A:H2'	31:BA:2328:A:H8	1.61	0.64
31:BA:2655:G:O2'	31:BA:2656:U:H5	1.80	0.64
31:BA:2659:G:O2'	31:BA:2663:G:N2	2.31	0.64
33:BD:95:LEU:HD21	33:BD:105:ILE:CG2	2.27	0.64
34:BE:197:ILE:HD11	34:BE:199:ARG:CZ	2.28	0.64
41:BP:123:LEU:O	41:BP:123:LEU:HD12	1.97	0.64
44:BS:56:LEU:HD23	44:BS:57:LYS:N	2.12	0.64
1:CA:47:C:H5''	1:CA:365:U:C6	2.33	0.64
1:CA:556:C:O2'	1:CA:557:G:H5'	1.98	0.64
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.32	0.64
3:CC:19:GLU:HG3	3:CC:54:ARG:HG3	1.80	0.64
24:D2:32:LEU:HD13	24:D2:37:PHE:HB3	1.78	0.64
24:D2:52:ASP:H	24:D2:55:ARG:HB2	1.62	0.64
31:DA:370:G:H3'	31:DA:423:A:C5	2.33	0.64
31:DA:993:G:H5''	47:DV:75:PHE:CE2	2.32	0.64
31:DA:1198:U:H2'	31:DA:1199:U:C6	2.33	0.64
31:DA:1470:G:H5''	31:DA:1471:A:OP1	1.98	0.64
31:DA:1887:C:H2'	31:DA:1888:G:H5''	1.79	0.64
31:DA:2660:A:H5''	31:DA:2661:G:N2	2.12	0.64
31:DA:2809:A:C2	31:DA:2892:A:N3	2.65	0.64
31:DA:2889:C:H3'	31:DA:2891:G:H8	1.63	0.64
45:DT:109:GLU:HA	45:DT:112:ARG:CG	2.28	0.64
47:DV:73:SER:O	47:DV:74:LYS:HB2	1.96	0.64
50:DY:9:LYS:HA	50:DY:30:VAL:CG2	2.25	0.64
1:AA:560:U:H4'	1:AA:561:U:O5'	1.98	0.64
1:AA:1103:C:H5''	2:AB:98:LEU:HD13	1.80	0.64
3:AC:130:VAL:HB	3:AC:157:ILE:HG23	1.78	0.64
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.80	0.64
23:B1:10:LYS:O	23:B1:13:ILE:HG23	1.98	0.64
31:BA:71:A:H3'	31:BA:71:A:OP2	1.97	0.64
31:BA:298:G:H8	31:BA:298:G:O5'	1.80	0.64
31:BA:856:C:C6	31:BA:856:C:H5''	2.32	0.64
31:BA:1025:G:C4	31:BA:1135:C:H1'	2.32	0.64
31:BA:1033:U:H5''	31:BA:1034:G:P	2.37	0.64
31:BA:2092:U:H5	31:BA:2226:C:OP1	1.80	0.64
31:BA:2779:U:O4'	31:BA:2779:U:O2	2.15	0.64
32:BB:13:A:N1	32:BB:69:G:O2'	2.24	0.64
36:BG:135:LEU:HD13	36:BG:155:MET:SD	2.37	0.64
36:BG:173:LEU:HB3	36:BG:178:PHE:CD1	2.32	0.64
38:BI:5:LEU:HD12	38:BI:17:GLN:HB3	1.80	0.64
44:BS:66:ALA:C	44:BS:69:VAL:HG12	2.18	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:88:ILE:CG2	45:BT:89:VAL:HG23	2.27	0.64
47:BV:16:PRO:C	47:BV:98:GLU:OE2	2.36	0.64
49:BX:4:ALA:C	49:BX:6:ASP:H	2.00	0.64
1:CA:266:G:H5''	1:CA:268:C:H41	1.63	0.64
1:CA:322:C:H4'	20:CT:23:ARG:HD2	1.78	0.64
1:CA:579:G:C6	1:CA:580:U:C4	2.85	0.64
1:CA:808:C:P	15:CO:48:LYS:HE3	2.38	0.64
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.78	0.64
24:D2:15:LYS:O	24:D2:16:LEU:HB3	1.97	0.64
31:DA:64:A:C2	31:DA:65:C:C2	2.86	0.64
31:DA:139(A):G:N2	49:DX:44:GLU:OE1	2.30	0.64
31:DA:836:G:C5	31:DA:837:C:C4	2.86	0.64
31:DA:855:G:C5	31:DA:856:C:N4	2.66	0.64
31:DA:2659:G:O2'	31:DA:2663:G:N2	2.31	0.64
36:DG:117:PHE:HE1	36:DG:120:LEU:HD23	1.62	0.64
41:DP:88:LEU:C	41:DP:90:ARG:H	2.02	0.64
41:DP:101:VAL:C	41:DP:103:ALA:H	2.02	0.64
50:DY:35:TYR:CD2	50:DY:69:ALA:HB3	2.33	0.64
1:AA:276:G:H5''	17:AQ:15:MET:HE1	1.80	0.64
1:AA:411:A:C4	1:AA:413:G:O4'	2.51	0.64
1:AA:678:U:H2'	1:AA:679:C:C6	2.32	0.64
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.28	0.64
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.63	0.64
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.28	0.64
31:BA:494:G:OP1	48:BW:8:ARG:NH1	2.31	0.64
31:BA:587:C:C5	41:BP:33:ARG:HG2	2.33	0.64
31:BA:1330:C:O2'	31:BA:1331:A:H5'	1.98	0.64
31:BA:1403:C:H5''	31:BA:1471:A:C1'	2.18	0.64
31:BA:2068:U:N3	31:BA:2430:A:C2	2.59	0.64
32:BB:42:C:O4'	36:BG:69:ALA:HB2	1.98	0.64
34:BE:55:ASN:HD21	34:BE:75:VAL:HG21	1.61	0.64
41:BP:110:TYR:O	41:BP:111:ARG:C	2.35	0.64
44:BS:90:GLY:H	44:BS:91:PRO:HD2	1.63	0.64
47:BV:15:GLU:O	47:BV:98:GLU:CD	2.36	0.64
50:BY:39:VAL:O	50:BY:40:GLU:CD	2.36	0.64
1:CA:147:G:C2'	1:CA:148:G:H5'	2.28	0.64
1:CA:185:A:H2'	1:CA:186:C:H6	1.61	0.64
1:CA:1064:G:H1'	1:CA:1065:U:OP2	1.98	0.64
1:CA:1072:G:C2	1:CA:1073:U:C2	2.86	0.64
12:CL:62:SER:O	12:CL:64:TYR:N	2.31	0.64
15:CO:64:ARG:HH12	15:CO:88:ARG:NH1	1.96	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:16:HIS:CB	29:D7:44:PRO:HG2	2.28	0.64
31:DA:69:C:O2	31:DA:69:C:C2'	2.45	0.64
31:DA:946:G:O2'	31:DA:947:G:H5'	1.97	0.64
31:DA:2472:G:N1	31:DA:2477:C:OP1	2.31	0.64
33:DD:267:SER:HA	33:DD:270:ILE:CD1	2.26	0.64
37:DH:144:VAL:O	37:DH:148:ILE:HG12	1.98	0.64
45:DT:33:LYS:N	45:DT:33:LYS:NZ	2.46	0.64
45:DT:91:ARG:HA	45:DT:117:ASP:H	1.63	0.64
48:DW:92:ARG:O	48:DW:93:ALA:HB3	1.98	0.64
1:AA:266:G:H5''	1:AA:268:C:H41	1.63	0.63
1:AA:457:C:H2'	1:AA:458:C:C6	2.33	0.63
1:AA:632:A:C8	1:AA:633:G:C8	2.85	0.63
1:AA:695:A:H61	1:AA:797:C:C1'	2.11	0.63
1:AA:1256:A:O3'	1:AA:1257:U:H4'	1.97	0.63
1:AA:1502:A:H5'	1:AA:1504:G:N7	2.13	0.63
5:AE:126:ARG:HH11	5:AE:126:ARG:CG	2.09	0.63
8:AH:73:ASP:OD2	8:AH:75:ARG:HG3	1.98	0.63
8:AH:86:ILE:HG21	8:AH:133:LEU:HD12	1.78	0.63
11:AK:73:MET:SD	11:AK:103:LEU:HD22	2.38	0.63
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.79	0.63
15:AO:54:ARG:HG2	15:AO:58:MET:HE1	1.79	0.63
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.61	0.63
31:BA:229:A:C5'	31:BA:230:U:H5'	2.19	0.63
31:BA:860:U:O2'	31:BA:861:A:H5'	1.97	0.63
31:BA:875:G:C4'	51:BZ:170:THR:HG21	2.28	0.63
31:BA:1019:U:O2'	31:BA:1021:A:H2	1.73	0.63
31:BA:1543:C:OP2	31:BA:1543:C:C5	2.52	0.63
31:BA:2810:A:H2'	34:BE:61:ARG:NH2	2.13	0.63
32:BB:24:G:N1	32:BB:56:G:N2	2.46	0.63
33:BD:255:LYS:HZ1	33:BD:255:LYS:H	1.44	0.63
37:BH:85:LYS:HZ3	37:BH:145:ALA:HA	1.63	0.63
38:BI:113:ARG:NH1	38:BI:132:PRO:HG3	2.12	0.63
1:CA:380:G:N1	1:CA:384:G:C6	2.66	0.63
1:CA:447:G:C6	1:CA:485:G:H1'	2.33	0.63
1:CA:658:G:H2'	1:CA:659:U:H6	1.62	0.63
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.18	0.63
11:CK:57:THR:OG1	11:CK:58:PRO:HD2	1.97	0.63
22:D0:48:GLY:HA3	22:D0:80:HIS:ND1	2.14	0.63
23:D1:46:LEU:HA	31:DA:396:G:O3'	1.98	0.63
30:D8:32:LEU:CB	30:D8:35:GLN:H	2.10	0.63
31:DA:389:G:H1	41:DP:71:VAL:H	1.43	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1359:A:H8	31:DA:1372:U:O4	1.81	0.63
31:DA:1744:C:C2'	31:DA:1745:C:H5'	2.28	0.63
31:DA:2243:U:H2'	31:DA:2244:U:C6	2.34	0.63
31:DA:2524:G:H1'	31:DA:2740:A:N1	2.13	0.63
34:DE:170:LEU:HD12	34:DE:170:LEU:N	2.12	0.63
36:DG:57:ALA:O	36:DG:60:LEU:HB3	1.97	0.63
37:DH:157:TYR:HE1	37:DH:171:LEU:N	1.96	0.63
38:DI:98:ALA:HA	38:DI:109:ILE:HD13	1.80	0.63
39:DN:47:ALA:HB2	39:DN:112:LEU:CD1	2.28	0.63
43:DR:4:LEU:O	43:DR:6:SER:N	2.32	0.63
46:DU:65:ILE:HG12	46:DU:96:ALA:CB	2.28	0.63
1:AA:684:A:H2'	1:AA:685:G:C8	2.33	0.63
1:AA:718:G:H1	18:AR:74:ARG:NH2	1.96	0.63
27:B5:40:LYS:CE	27:B5:49:CYS:SG	2.83	0.63
31:BA:2006:C:H2'	31:BA:2007:C:H6	1.63	0.63
31:BA:2521:C:N4	31:BA:2544:G:H1	1.96	0.63
31:BA:2580:U:H5''	34:BE:131:ALA:H	1.63	0.63
31:BA:2688:U:H5	31:BA:2720:U:OP2	1.81	0.63
39:BN:128:HIS:O	39:BN:130:HIS:N	2.31	0.63
42:BQ:134:ARG:HH12	51:BZ:119:GLU:CD	2.01	0.63
45:BT:89:VAL:O	45:BT:91:ARG:HG3	1.99	0.63
47:BV:19:LYS:HE2	47:BV:20:LEU:N	2.13	0.63
1:CA:559:A:H4'	1:CA:560:U:O5'	1.98	0.63
1:CA:862:C:H2'	1:CA:863:U:C5'	2.27	0.63
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.18	0.63
10:CJ:65:LEU:HD13	14:CN:56:VAL:HG22	1.80	0.63
15:CO:7:GLU:O	15:CO:10:LYS:HB3	1.98	0.63
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.80	0.63
22:D0:53:MET:HB2	22:D0:59:LEU:HD23	1.79	0.63
31:DA:267:C:H2'	31:DA:268:C:C6	2.34	0.63
31:DA:1021:A:H62	31:DA:1141:U:H3	1.46	0.63
31:DA:2023:G:H5'	31:DA:2617:C:H4'	1.80	0.63
31:DA:2041:U:H2'	31:DA:2042:A:C8	2.33	0.63
31:DA:2311:A:OP1	31:DA:2312:U:C5	2.52	0.63
31:DA:2388:A:C2'	31:DA:2389:G:H5'	2.27	0.63
31:DA:2680:C:OP2	34:DE:111:ARG:NH2	2.30	0.63
32:DB:37:C:O2	32:DB:38:C:C2	2.51	0.63
33:DD:35:LYS:HZ1	33:DD:65:ILE:HA	1.62	0.63
33:DD:58:HIS:CD2	33:DD:59:LYS:N	2.66	0.63
39:DN:78:TYR:N	39:DN:79:PRO:HD3	2.13	0.63
47:DV:71:LEU:HD22	47:DV:72:VAL:HG23	1.79	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:47:LYS:HD2	50:DY:47:LYS:H	1.63	0.63
1:AA:1287:A:C2	1:AA:1353:G:H1'	2.32	0.63
28:B6:9:LEU:HD13	28:B6:9:LEU:O	1.99	0.63
30:B8:6:THR:CG2	30:B8:63:PRO:HD3	2.27	0.63
31:BA:106:C:H1'	50:BY:2:ARG:HE	1.62	0.63
31:BA:142:A:H8	31:BA:1408:C:H1'	1.61	0.63
31:BA:478:A:N1	31:BA:500:G:H4'	2.12	0.63
31:BA:869:G:H2'	31:BA:870:A:O4'	1.98	0.63
31:BA:1291:C:H2'	31:BA:1292:U:C6	2.33	0.63
31:BA:2058:A:H5''	31:BA:2059:A:OP2	1.98	0.63
33:BD:24:ILE:O	33:BD:24:ILE:HG23	1.97	0.63
33:BD:85:ASP:OD1	33:BD:86:PRO:HD2	1.98	0.63
33:BD:253:GLN:HB3	33:BD:255:LYS:NZ	2.14	0.63
35:BF:7:TYR:CD1	35:BF:8:GLN:N	2.64	0.63
42:BQ:89:ASN:O	42:BQ:91:GLU:N	2.31	0.63
43:BR:10:LEU:HD22	43:BR:17:ARG:CD	2.28	0.63
44:BS:13:ARG:O	44:BS:15:ARG:HG3	1.98	0.63
47:BV:1:MET:N	47:BV:44:LYS:HD2	2.14	0.63
47:BV:67:GLY:O	47:BV:68:LYS:C	2.36	0.63
51:BZ:39:VAL:CG2	51:BZ:44:PHE:HB2	2.28	0.63
51:BZ:52:SER:OG	51:BZ:53:ILE:N	2.29	0.63
1:CA:1157:A:C1'	1:CA:1181:G:H21	2.10	0.63
1:CA:1216:G:OP1	14:CN:2:ALA:HA	1.97	0.63
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.32	0.63
3:CC:186:PHE:HD1	3:CC:198:VAL:O	1.81	0.63
11:CK:99:GLN:O	11:CK:101:SER:N	2.26	0.63
12:CL:38:THR:HG22	12:CL:57:LYS:O	1.99	0.63
22:D0:2:ALA:H	31:DA:2602:A:H62	1.45	0.63
28:D6:13:CYS:HA	28:D6:50:ARG:O	1.98	0.63
29:D7:11:LYS:HE2	31:DA:686:G:H5''	1.80	0.63
31:DA:357:A:C2	31:DA:358:U:O2	2.52	0.63
31:DA:542:C:O5'	31:DA:542:C:H6	1.82	0.63
31:DA:1794:U:O2'	31:DA:1795:C:H5'	1.98	0.63
31:DA:2006:C:H2'	31:DA:2007:C:H6	1.62	0.63
31:DA:2376:A:H5''	31:DA:2377:A:OP2	1.98	0.63
31:DA:2650:U:H2'	31:DA:2651:C:C6	2.34	0.63
32:DB:50:G:OP2	44:DS:62:LYS:HB2	1.98	0.63
33:DD:35:LYS:CE	33:DD:104:TYR:HB2	2.28	0.63
37:DH:126:PRO:HG2	37:DH:130:ARG:HB3	1.80	0.63
41:DP:23:PRO:CB	41:DP:33:ARG:HG3	2.19	0.63
45:DT:109:GLU:O	45:DT:112:ARG:HG3	1.98	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:65:ARG:CZ	49:DX:66:LEU:H	2.11	0.63
1:AA:44:G:C2	1:AA:45:U:H1'	2.34	0.63
11:AK:127:LYS:HA	11:AK:127:LYS:CE	2.29	0.63
23:B1:47:GLN:HB2	31:BA:397:G:H5''	1.79	0.63
27:B5:10:LYS:HE3	31:BA:1262:A:N3	2.13	0.63
31:BA:635:C:O2'	31:BA:639:U:OP1	2.16	0.63
31:BA:796:C:H2'	31:BA:797:C:H6	1.60	0.63
31:BA:1185:C:H5''	31:BA:1186:G:OP1	1.98	0.63
55:BA:3362:TEL:O32	55:BA:3362:TEL:C13	2.45	0.63
33:BD:24:ILE:O	33:BD:24:ILE:CG2	2.46	0.63
33:BD:255:LYS:H	33:BD:255:LYS:NZ	1.97	0.63
34:BE:117:MET:O	34:BE:117:MET:HG2	1.98	0.63
37:BH:157:TYR:HE1	37:BH:171:LEU:N	1.95	0.63
45:BT:109:GLU:HA	45:BT:112:ARG:CG	2.29	0.63
46:BU:44:ASN:HD22	46:BU:44:ASN:N	1.95	0.63
50:BY:95:LYS:NZ	50:BY:100:ALA:HB1	2.13	0.63
1:CA:662:G:O2'	1:CA:663:A:H5'	1.98	0.63
1:CA:719:C:C6	1:CA:720:C:C5	2.87	0.63
6:CF:86:ARG:O	6:CF:87:ARG:HB2	1.98	0.63
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	1.98	0.63
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.63	0.63
24:D2:41:ILE:HG21	31:DA:95:G:H21	1.63	0.63
25:D3:43:ILE:O	25:D3:47:VAL:HG23	1.97	0.63
31:DA:221:A:H4'	31:DA:222:A:O5'	1.97	0.63
31:DA:271(C):C:H2'	31:DA:271(D):G:C8	2.33	0.63
31:DA:271(G):C:O2'	31:DA:271(H):G:H5'	1.98	0.63
31:DA:727:A:C2	33:DD:9:TYR:CD2	2.86	0.63
31:DA:1005:C:O2	31:DA:1143:A:C6	2.52	0.63
31:DA:1386:C:H2'	31:DA:1387:C:H6	1.63	0.63
31:DA:1686:C:C2'	31:DA:1687:G:H5'	2.29	0.63
31:DA:1771:C:C1'	31:DA:1786:A:C8	2.82	0.63
38:DI:5:LEU:O	38:DI:6:LEU:HD23	1.99	0.63
39:DN:30:ILE:O	39:DN:34:LEU:HD22	1.98	0.63
43:DR:9:LYS:O	43:DR:10:LEU:CG	2.45	0.63
47:DV:28:GLU:HB2	47:DV:29:PRO:CD	2.25	0.63
48:DW:64:MET:O	48:DW:65:LEU:CB	2.46	0.63
49:DX:89:ILE:HA	49:DX:92:LEU:HD12	1.81	0.63
1:AA:224:C:H2'	1:AA:225:C:C6	2.34	0.63
1:AA:1142:G:H2'	1:AA:1143:G:O4'	1.98	0.63
1:AA:1158:C:H5''	2:AB:133:LYS:HE2	1.80	0.63
12:AL:51:ALA:O	12:AL:52:LEU:HD23	1.97	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:102:ARG:HG3	12:AL:102:ARG:NH1	2.11	0.63
31:BA:1690:A:H3'	31:BA:1691:C:C6	2.30	0.63
31:BA:2315:G:C6	31:BA:2316:C:N4	2.67	0.63
33:BD:3:VAL:H	33:BD:20:ASP:HB2	1.63	0.63
38:BI:5:LEU:C	38:BI:6:LEU:HD23	2.19	0.63
42:BQ:16:ARG:HG2	42:BQ:17:LEU:N	2.13	0.63
44:BS:34:HIS:NE2	44:BS:54:LEU:HB2	2.13	0.63
45:BT:29:ARG:HD3	45:BT:86:ILE:HG22	1.81	0.63
47:BV:6:LYS:HA	47:BV:11:GLN:HA	1.81	0.63
50:BY:96:ILE:CG1	50:BY:99:CYS:SG	2.87	0.63
1:CA:102:G:C5	1:CA:103:C:C5	2.87	0.63
1:CA:719:C:H3'	1:CA:720:C:C6	2.33	0.63
1:CA:719:C:H6	1:CA:720:C:C5	2.16	0.63
1:CA:938:A:N6	1:CA:939:G:C6	2.66	0.63
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.81	0.63
23:D1:48:LYS:HE3	23:D1:48:LYS:HA	1.79	0.63
23:D1:67:ILE:N	23:D1:68:PRO:HD2	2.13	0.63
24:D2:52:ASP:CG	31:DA:72:U:H1'	2.19	0.63
28:D6:25:LYS:HE2	28:D6:27:LYS:HZ1	1.63	0.63
31:DA:634:C:H2'	31:DA:635:C:C6	2.34	0.63
31:DA:1181:C:O2'	31:DA:1182:A:H5'	1.97	0.63
31:DA:1341:U:C2	49:DX:77:LYS:HE2	2.34	0.63
31:DA:1498:C:O4'	31:DA:1577:C:H4'	1.99	0.63
31:DA:1509(B):A:H3'	31:DA:1510:G:H8	1.62	0.63
31:DA:2334:G:C2	44:DS:15:ARG:NH1	2.67	0.63
31:DA:2402:C:H5'	31:DA:2403:C:OP2	1.97	0.63
31:DA:2753:A:H2	31:DA:2754:U:C2	2.17	0.63
31:DA:2833:G:H4'	31:DA:2834:G:OP2	1.98	0.63
32:DB:27:C:O2	32:DB:28:C:C6	2.51	0.63
33:DD:267:SER:HA	33:DD:270:ILE:HD11	1.79	0.63
34:DE:98:PRO:HD3	34:DE:175:VAL:CG1	2.27	0.63
38:DI:69:LYS:HE2	38:DI:73:GLU:OE1	1.98	0.63
44:DS:84:GLN:HA	44:DS:105:ALA:HB3	1.80	0.63
45:DT:61:PHE:CZ	45:DT:85:LYS:HE2	2.33	0.63
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.13	0.63
6:AF:86:ARG:O	6:AF:87:ARG:HB2	1.98	0.63
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.29	0.63
22:B0:53:MET:HB2	22:B0:59:LEU:HD23	1.80	0.63
24:B2:41:ILE:HG21	31:BA:95:G:H21	1.64	0.63
31:BA:727:A:C2	33:BD:9:TYR:CD2	2.87	0.63
31:BA:806:C:P	41:BP:39:LYS:HG3	2.38	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:911:A:C6	42:BQ:9:TYR:CE2	2.84	0.63
31:BA:1021:A:C8	31:BA:1021:A:C3'	2.80	0.63
31:BA:1130:U:O2	31:BA:2025:C:H5''	1.98	0.63
31:BA:1637:A:H4'	31:BA:2711:A:O2'	1.98	0.63
31:BA:1918:A:O2'	31:BA:1920:C:N4	2.31	0.63
31:BA:2068:U:C2	31:BA:2430:A:H2	2.17	0.63
31:BA:2811:G:N2	31:BA:2891:G:H1'	2.13	0.63
32:BB:31:C:C2'	32:BB:53:A:H61	2.12	0.63
33:BD:34:VAL:O	33:BD:34:VAL:HG13	1.98	0.63
1:CA:15:G:C6	1:CA:922:G:C2	2.87	0.63
1:CA:1311:G:N2	1:CA:1327:C:C2	2.67	0.63
22:D0:50:ASN:O	22:D0:62:LEU:HB2	1.99	0.63
24:D2:57:ILE:HG12	24:D2:59:ARG:HH11	1.63	0.63
27:D5:16:ARG:NH1	27:D5:17:ASP:OD1	2.31	0.63
29:D7:10:ARG:HG3	31:DA:125:G:C6	2.33	0.63
31:DA:71:A:H8	31:DA:71:A:C5'	2.03	0.63
31:DA:271(J):C:C3'	31:DA:271(K):U:H5''	2.29	0.63
31:DA:573:G:O2'	31:DA:574:C:H3'	1.98	0.63
31:DA:1341:U:H3'	31:DA:1397:U:O2	1.98	0.63
31:DA:1441:G:H2'	31:DA:1442:G:H8	1.62	0.63
31:DA:1569:A:H5'	33:DD:61:LEU:CD2	2.28	0.63
31:DA:1670:C:O2	34:DE:129:HIS:HE1	1.82	0.63
31:DA:2641:G:OP1	39:DN:75:TYR:HD2	1.81	0.63
34:DE:111:ARG:NH1	43:DR:2:ARG:HH21	1.97	0.63
36:DG:29:TRP:CD1	36:DG:29:TRP:N	2.67	0.63
38:DI:101:LEU:HD23	38:DI:109:ILE:HG12	1.80	0.63
46:DU:47:TYR:HA	46:DU:50:ARG:NH2	2.13	0.63
1:AA:375:U:O3'	16:AP:6:LEU:HB2	1.99	0.63
1:AA:533:A:O2'	1:AA:534:U:H5''	1.99	0.63
1:AA:960:U:O2	1:AA:960:U:H2'	1.98	0.63
1:AA:1216:G:OP1	14:AN:2:ALA:HA	1.98	0.63
2:AB:22:LYS:HA	2:AB:22:LYS:NZ	2.12	0.63
28:B6:11:LEU:O	28:B6:23:THR:HA	1.99	0.63
31:BA:195:A:H4'	31:BA:251:A:O2'	1.99	0.63
31:BA:925:C:C2'	31:BA:926:A:H5''	2.29	0.63
31:BA:1493:C:O2	31:BA:1493:C:H2'	1.99	0.63
31:BA:1797:C:O2'	31:BA:1798:U:H5'	1.98	0.63
31:BA:2444:G:OP2	35:BF:68:LYS:HE2	1.98	0.63
31:BA:2471:C:O2	31:BA:2472:G:O4'	2.16	0.63
31:BA:2699:C:H2'	31:BA:2700:C:O4'	1.99	0.63
39:BN:75:TYR:N	39:BN:75:TYR:HD1	1.97	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:96:ARG:HH21	43:BR:117:VAL:CG2	2.10	0.63
47:BV:52:VAL:O	47:BV:53:GLU:CB	2.45	0.63
47:BV:66:ARG:HD2	47:BV:67:GLY:CA	2.28	0.63
49:BX:30:VAL:HG11	49:BX:39:ILE:HD12	1.80	0.63
1:CA:457:C:H2'	1:CA:458:C:C6	2.32	0.63
1:CA:624:C:H2'	1:CA:625:G:H8	1.62	0.63
4:CD:176:LEU:HG	4:CD:178:VAL:HG22	1.81	0.63
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.81	0.63
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.62	0.63
23:D1:25:LYS:C	23:D1:26:ARG:HG3	2.19	0.63
31:DA:758:C:O2	31:DA:1981:A:H2	1.80	0.63
31:DA:1179:C:H3'	31:DA:1180:C:H5''	1.80	0.63
31:DA:1889:A:O2'	31:DA:2087:G:H5'	1.98	0.63
31:DA:2563:U:H4'	40:DO:28:SER:HA	1.81	0.63
33:DD:35:LYS:HG2	33:DD:64:ILE:HG23	1.80	0.63
42:DQ:22:LYS:HA	42:DQ:22:LYS:CE	2.25	0.63
43:DR:10:LEU:HD22	43:DR:17:ARG:CD	2.29	0.63
47:DV:21:ARG:HG2	47:DV:93:GLU:OE1	1.99	0.63
48:DW:75:TYR:CE1	48:DW:104:THR:CB	2.74	0.63
49:DX:30:VAL:HG11	49:DX:39:ILE:HD12	1.81	0.63
49:DX:82:GLN:C	49:DX:85:PRO:HD2	2.17	0.63
50:DY:68:HIS:CE1	50:DY:70:SER:HB3	2.34	0.63
1:AA:433:C:H2'	1:AA:434:U:H6	1.64	0.63
1:AA:1095:U:H5''	1:AA:1109:C:O2	1.99	0.63
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.33	0.63
4:AD:148:VAL:CG1	4:AD:152:SER:HB2	2.29	0.63
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.99	0.63
11:AK:29:ILE:HD11	11:AK:42:TRP:CE3	2.33	0.63
19:AS:42:PRO:O	19:AS:43:GLU:HB3	1.98	0.63
31:BA:615:G:OP1	35:BF:40:GLN:NE2	2.31	0.63
31:BA:2023:G:H5'	31:BA:2617:C:H4'	1.79	0.63
31:BA:2393:A:O2'	31:BA:2394:C:H5'	1.98	0.63
37:BH:85:LYS:NZ	37:BH:145:ALA:HA	2.14	0.63
38:BI:82:ARG:HB3	38:BI:89:TYR:CE1	2.30	0.63
39:BN:57:ALA:C	39:BN:58:ASP:O	2.36	0.63
42:BQ:75:THR:HG22	42:BQ:88:GLY:HA3	1.79	0.63
47:BV:40:LEU:HD13	47:BV:40:LEU:C	2.19	0.63
1:CA:624:C:H2'	1:CA:625:G:C8	2.34	0.63
12:CL:102:ARG:HG3	12:CL:102:ARG:NH1	2.11	0.63
25:D3:8:LEU:HA	25:D3:54:VAL:HG12	1.79	0.63
27:D5:4:HIS:HB3	27:D5:5:PRO:HD3	1.80	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:121:G:H4'	31:DA:149:A:H5'	1.81	0.63
31:DA:271(E):U:H6	31:DA:271(E):U:O5'	1.81	0.63
31:DA:1301:A:H2	31:DA:1626:G:N3	1.97	0.63
31:DA:1495:A:H5''	31:DA:1496:A:OP2	1.98	0.63
31:DA:1496:A:C8	31:DA:1577:C:O2'	2.52	0.63
31:DA:2302:G:O6	31:DA:2315:G:C6	2.52	0.63
31:DA:2500:U:H2'	31:DA:2504:U:H5	1.63	0.63
31:DA:2880:C:O2'	43:DR:90:ARG:HD3	1.99	0.63
38:DI:5:LEU:C	38:DI:6:LEU:HD23	2.19	0.63
39:DN:3:THR:C	39:DN:4:TYR:CG	2.72	0.63
44:DS:17:ARG:HD3	44:DS:25:ARG:HE	1.62	0.63
49:DX:89:ILE:HA	49:DX:92:LEU:HB2	1.81	0.63
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.34	0.63
1:AA:359:U:H2'	1:AA:360:A:H8	1.64	0.63
2:AB:178:ARG:NH2	8:AH:68:ARG:NH2	2.43	0.63
2:AB:187:LEU:HD13	2:AB:187:LEU:O	1.99	0.63
6:AF:1:MET:O	6:AF:2:ARG:HG3	1.97	0.63
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.13	0.63
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.80	0.63
18:AR:74:ARG:HB3	18:AR:81:PHE:CE1	2.34	0.63
25:B3:46:ASN:O	25:B3:50:VAL:HG22	1.99	0.63
31:BA:394:A:C6	31:BA:395:U:C4	2.87	0.63
31:BA:572:A:H2'	31:BA:573:G:O4'	1.99	0.63
31:BA:1671:U:HO2'	31:BA:1673:U:H5	1.46	0.63
31:BA:2394:C:P	41:BP:63:PRO:HD2	2.37	0.63
31:BA:2833:G:H4'	31:BA:2834:G:OP2	1.99	0.63
34:BE:134:ILE:HD13	34:BE:134:ILE:N	2.11	0.63
38:BI:54:GLN:HA	38:BI:57:ARG:NH1	2.14	0.63
41:BP:47:ASP:HB2	41:BP:51:PHE:HB2	1.79	0.63
41:BP:50:ARG:HG2	41:BP:50:ARG:HH21	1.64	0.63
44:BS:28:VAL:O	44:BS:29:PHE:HB3	1.99	0.63
49:BX:18:TYR:HA	49:BX:21:PHE:CE1	2.34	0.63
1:CA:96:U:O2'	1:CA:97:G:H8	1.82	0.63
1:CA:559:A:H4'	1:CA:560:U:C5'	2.29	0.63
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.64	0.63
1:CA:1460:A:H2'	1:CA:1461:G:O4'	1.99	0.63
5:CE:126:ARG:HH11	5:CE:126:ARG:CG	2.09	0.63
8:CH:91:ARG:HG2	17:CQ:34:LYS:H	1.62	0.63
12:CL:25:PRO:C	12:CL:27:LEU:H	2.02	0.63
29:D7:8:ASN:C	29:D7:8:ASN:ND2	2.50	0.63
31:DA:633:A:H2'	31:DA:634:C:H5'	1.80	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1388:G:H2'	31:DA:1389:G:H8	1.63	0.63
31:DA:1474:C:H5''	31:DA:1474:C:H6	1.64	0.63
31:DA:1562:A:O2'	31:DA:1563:G:H5'	1.98	0.63
31:DA:1777:U:C2'	31:DA:1778:U:H5'	2.28	0.63
32:DB:42:C:O4'	36:DG:69:ALA:HB2	1.99	0.63
35:DF:65:TRP:O	35:DF:67:GLN:N	2.32	0.63
41:DP:21:ARG:HG2	41:DP:21:ARG:O	1.98	0.63
41:DP:29:LYS:H	41:DP:29:LYS:CD	2.03	0.63
41:DP:90:ARG:O	41:DP:91:PHE:HB3	1.99	0.63
43:DR:38:VAL:HB	43:DR:39:PRO:HD3	1.81	0.63
44:DS:26:LEU:O	44:DS:88:ASP:HB3	1.98	0.63
1:AA:303:A:H2'	1:AA:304:U:O4'	1.99	0.62
1:AA:380:G:N1	1:AA:384:G:C6	2.67	0.62
1:AA:559:A:H4'	1:AA:560:U:C5'	2.29	0.62
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.13	0.62
4:AD:170:VAL:HG22	4:AD:171:GLY:H	1.62	0.62
22:B0:2:ALA:H	31:BA:2602:A:H62	1.47	0.62
28:B6:15:GLU:OE1	28:B6:18:ARG:CG	2.45	0.62
31:BA:271(A):A:H5'	31:BA:271(B):C:OP2	1.99	0.62
31:BA:676:A:N1	31:BA:802:A:N1	2.46	0.62
31:BA:2008:C:H2'	31:BA:2009:G:H8	1.64	0.62
31:BA:2527:C:H2'	31:BA:2528:U:O4'	1.99	0.62
31:BA:2599:G:OP2	33:BD:236:GLY:N	2.31	0.62
44:BS:26:LEU:O	44:BS:88:ASP:HB3	1.99	0.62
45:BT:51:ARG:HG3	45:BT:98:LYS:HE3	1.80	0.62
48:BW:37:ARG:HG3	48:BW:37:ARG:HH11	1.64	0.62
49:BX:36:LYS:HZ3	49:BX:38:GLU:C	1.96	0.62
1:CA:224:C:H2'	1:CA:225:C:C6	2.34	0.62
1:CA:562:C:N4	1:CA:884:U:C6	2.66	0.62
4:CD:11:LEU:HD23	4:CD:11:LEU:N	2.13	0.62
4:CD:13:ARG:HD2	4:CD:38:TYR:O	1.99	0.62
31:DA:590:A:H2'	31:DA:591:C:C6	2.34	0.62
31:DA:768:G:O2'	31:DA:1379:A:N6	2.31	0.62
31:DA:2552:U:H2'	31:DA:2554:U:OP2	1.99	0.62
55:DA:3320:TEL:O29	55:DA:3320:TEL:H383	1.99	0.62
35:DF:158:THR:HG23	35:DF:160:ASN:H	1.64	0.62
37:DH:85:LYS:HZ2	37:DH:133:VAL:CG2	2.13	0.62
37:DH:92:ILE:HG12	37:DH:160:LYS:HE3	1.80	0.62
42:DQ:42:ILE:HD13	42:DQ:97:VAL:HB	1.81	0.62
45:DT:32:TYR:CG	45:DT:81:PRO:HB2	2.33	0.62
45:DT:99:LEU:HB2	45:DT:101:PHE:HE1	1.62	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1084:G:C5	1:AA:1085:U:C4	2.87	0.62
1:AA:1201:A:H4'	1:AA:1202:G:O5'	1.99	0.62
2:AB:64:ARG:O	2:AB:64:ARG:HG3	1.98	0.62
20:AT:12:ALA:O	20:AT:15:ARG:HB2	1.99	0.62
28:B6:27:LYS:HD2	31:BA:2285:C:OP2	2.00	0.62
31:BA:34:C:H2'	31:BA:35:G:OP1	1.98	0.62
31:BA:286:C:N4	31:BA:355:G:H1	1.94	0.62
31:BA:669:G:C8	31:BA:669:G:H5'	2.34	0.62
31:BA:743:G:H2'	31:BA:744:G:H5'	1.81	0.62
31:BA:836:G:H2'	31:BA:837:C:C6	2.34	0.62
31:BA:1021:A:H62	31:BA:1141:U:H3	1.47	0.62
31:BA:1603:A:H5'	31:BA:1603:A:C8	2.28	0.62
31:BA:2074:U:HO2'	31:BA:2597:G:HO2'	1.47	0.62
31:BA:2475:C:H5''	31:BA:2476:A:P	2.39	0.62
33:BD:267:SER:HA	33:BD:270:ILE:CD1	2.29	0.62
36:BG:20:ILE:HA	36:BG:25:TYR:CD2	2.34	0.62
39:BN:42:TRP:CD1	39:BN:42:TRP:C	2.72	0.62
40:BO:10:VAL:O	40:BO:10:VAL:HG23	1.99	0.62
42:BQ:19:GLY:C	42:BQ:21:THR:H	2.02	0.62
47:BV:66:ARG:CD	47:BV:67:GLY:N	2.61	0.62
49:BX:74:PRO:O	49:BX:75:ASP:C	2.38	0.62
51:BZ:156:LYS:O	51:BZ:158:PRO:HD3	1.99	0.62
1:CA:177:C:OP1	20:CT:65:LYS:HD3	1.98	0.62
1:CA:433:C:H2'	1:CA:434:U:H6	1.64	0.62
1:CA:441:A:H3'	1:CA:442:C:H6	1.62	0.62
1:CA:960:U:H2'	1:CA:960:U:O2	1.96	0.62
2:CB:178:ARG:NH2	8:CH:68:ARG:NH2	2.43	0.62
8:CH:87:SER:HA	8:CH:93:VAL:HG23	1.80	0.62
17:CQ:18:THR:HG23	17:CQ:69:LYS:HE3	1.81	0.62
18:CR:29:PHE:CZ	18:CR:31:LEU:HD22	2.35	0.62
31:DA:208:C:H2'	31:DA:209:C:C6	2.34	0.62
31:DA:329:G:OP2	50:DY:71:LYS:HE2	1.98	0.62
31:DA:460:A:C2	31:DA:470:A:C4	2.87	0.62
31:DA:515:A:H1'	31:DA:581:C:H1'	1.80	0.62
31:DA:576:U:H2'	31:DA:577:G:C8	2.34	0.62
31:DA:729:G:OP2	33:DD:13:ARG:NH1	2.31	0.62
31:DA:912:C:C2	31:DA:913:U:C5	2.87	0.62
31:DA:1418:G:H8	31:DA:1418:G:O5'	1.82	0.62
31:DA:2068:U:N3	31:DA:2430:A:C2	2.56	0.62
31:DA:2480:C:N4	31:DA:2481:G:C6	2.67	0.62
31:DA:2795:G:N2	31:DA:2796:U:O2'	2.33	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:132:HIS:CG	34:DE:135:HIS:NE2	2.67	0.62
45:DT:29:ARG:HD3	45:DT:86:ILE:HG22	1.80	0.62
1:AA:343:U:C2	1:AA:347:G:N1	2.67	0.62
1:AA:376:G:H4'	16:AP:5:ARG:HH11	1.63	0.62
1:AA:738:C:H5''	6:AF:2:ARG:NH1	2.15	0.62
1:AA:1408:A:O2'	31:BA:1916:A:N1	2.31	0.62
1:AA:1442:G:C5	1:AA:1442(B):A:H2	2.16	0.62
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.64	0.62
2:AB:239:VAL:HG12	2:AB:239:VAL:O	1.97	0.62
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.99	0.62
12:AL:25:PRO:C	12:AL:27:LEU:H	2.00	0.62
31:BA:154:G:N1	31:BA:172:C:N4	2.47	0.62
31:BA:719:C:O2'	31:BA:720:C:H5'	2.00	0.62
31:BA:848:G:N3	31:BA:933:A:H1'	2.15	0.62
31:BA:1204:A:C2	31:BA:1241:A:N1	2.67	0.62
31:BA:1319:G:C6	31:BA:1320:C:N4	2.68	0.62
31:BA:1504:C:O2'	31:BA:1505:C:H5'	1.99	0.62
31:BA:1508:A:OP1	31:BA:1509(A):A:H2	1.83	0.62
31:BA:2358:G:H1	41:BP:55:ARG:HH22	1.46	0.62
55:BA:3362:TEL:O29	55:BA:3362:TEL:H383	1.99	0.62
33:BD:253:GLN:HB3	33:BD:255:LYS:CE	2.29	0.62
34:BE:120:TRP:O	34:BE:121:ASN:HB2	1.99	0.62
36:BG:29:TRP:CD1	36:BG:29:TRP:N	2.67	0.62
37:BH:89:ILE:CD1	37:BH:89:ILE:N	2.62	0.62
37:BH:92:ILE:HG12	37:BH:160:LYS:HE3	1.82	0.62
41:BP:21:ARG:HG2	41:BP:21:ARG:O	1.98	0.62
42:BQ:140:ALA:H	51:BZ:53:ILE:CD1	2.13	0.62
43:BR:100:LEU:HD21	43:BR:113:LEU:HD13	1.82	0.62
44:BS:83:LYS:HG2	44:BS:105:ALA:HB2	1.81	0.62
49:BX:83:VAL:O	49:BX:84:ALA:HB3	1.97	0.62
1:CA:194:C:C2'	1:CA:195:A:H5''	2.29	0.62
1:CA:386:C:H2'	1:CA:387:U:C5'	2.24	0.62
1:CA:437:U:H2'	1:CA:438:G:C5'	2.29	0.62
1:CA:790:A:C6	1:CA:791:G:C6	2.87	0.62
2:CB:239:VAL:O	2:CB:239:VAL:HG12	1.99	0.62
8:CH:29:SER:HB3	8:CH:32:LYS:CG	2.29	0.62
8:CH:54:ASP:O	8:CH:56:LYS:HG3	1.98	0.62
11:CK:62:GLN:C	11:CK:64:ALA:H	2.02	0.62
11:CK:111:ASP:CA	18:CR:84:LYS:HE2	2.29	0.62
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.34	0.62
23:D1:88:LYS:O	23:D1:92:LYS:HB2	1.99	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:40:LYS:NZ	27:D5:46:CYS:H	1.95	0.62
27:D5:40:LYS:CD	27:D5:46:CYS:HB3	2.30	0.62
28:D6:11:LEU:HD23	28:D6:25:LYS:HA	1.82	0.62
31:DA:602:G:H8	31:DA:602:G:OP2	1.81	0.62
31:DA:675:A:C8	31:DA:804:A:C6	2.87	0.62
31:DA:1175:U:H4'	31:DA:1176:G:H2'	1.81	0.62
31:DA:1381:G:C2'	31:DA:1382:G:H5'	2.29	0.62
31:DA:1694:C:O2'	31:DA:1695:G:C4	2.52	0.62
31:DA:1796:U:H2'	31:DA:1797:C:H6	1.65	0.62
31:DA:2015:A:H2'	31:DA:2016:U:H5'	1.81	0.62
31:DA:2061:G:H5''	31:DA:2503:A:C2	2.34	0.62
31:DA:2245:U:H5''	31:DA:2246:G:H5'	1.81	0.62
31:DA:2280:G:C2'	31:DA:2281:C:H5'	2.28	0.62
31:DA:2655:G:O2'	31:DA:2656:U:H5	1.81	0.62
31:DA:2749:A:H4'	37:DH:62:LYS:HB3	1.80	0.62
31:DA:2752:C:C2	31:DA:2753:A:N7	2.66	0.62
33:DD:253:GLN:HB3	33:DD:255:LYS:HZ3	1.65	0.62
34:DE:203:LYS:HG3	34:DE:204:ALA:N	2.13	0.62
39:DN:128:HIS:O	39:DN:130:HIS:N	2.32	0.62
41:DP:50:ARG:NH2	41:DP:50:ARG:HG2	2.14	0.62
42:DQ:34:LEU:HD11	42:DQ:129:THR:HB	1.81	0.62
43:DR:44:LEU:HD22	43:DR:44:LEU:O	2.00	0.62
49:DX:10:ALA:O	49:DX:28:PHE:HB3	1.99	0.62
51:DZ:149:SER:HB2	51:DZ:173:ALA:HA	1.80	0.62
1:AA:245:C:O2	1:AA:283:C:N3	2.32	0.62
1:AA:447:G:C6	1:AA:485:G:H1'	2.35	0.62
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.48	0.62
12:AL:27:LEU:HD11	12:AL:64:TYR:CE1	2.35	0.62
12:AL:87:GLY:HA2	12:AL:98:TYR:HA	1.80	0.62
20:AT:43:LEU:HD12	20:AT:55:ILE:HG13	1.82	0.62
23:B1:85:LEU:C	23:B1:87:PRO:HD3	2.20	0.62
31:BA:573:G:C6	31:BA:2030:A:H3'	2.33	0.62
31:BA:855:G:C5	31:BA:856:C:N4	2.67	0.62
31:BA:1858:G:H1'	31:BA:1884:A:N6	2.15	0.62
33:BD:267:SER:HA	33:BD:270:ILE:HD11	1.81	0.62
35:BF:57:VAL:HG12	35:BF:59:TYR:H	1.64	0.62
41:BP:50:ARG:HG2	41:BP:50:ARG:NH2	2.13	0.62
48:BW:75:TYR:CD1	48:BW:75:TYR:O	2.53	0.62
50:BY:46:LYS:HB2	50:BY:47:LYS:HD2	1.81	0.62
1:CA:34:C:H2'	1:CA:35:G:C8	2.35	0.62
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.80	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:148:VAL:CG1	4:CD:149:ALA:H	2.12	0.62
5:CE:57:LYS:O	5:CE:61:TYR:HD2	1.83	0.62
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.80	0.62
30:D8:30:ARG:HH21	41:DP:62:LEU:CB	2.12	0.62
31:DA:518:G:H4'	48:DW:18:ARG:NH1	2.15	0.62
31:DA:2058:A:H5''	31:DA:2059:A:OP2	2.00	0.62
31:DA:2492:U:H2'	31:DA:2493:U:C6	2.34	0.62
31:DA:2542:A:C8	31:DA:2544:G:O6	2.51	0.62
42:DQ:19:GLY:C	42:DQ:21:THR:H	2.01	0.62
51:DZ:4:ARG:HG2	51:DZ:58:VAL:HB	1.81	0.62
1:AA:1311:G:N2	1:AA:1327:C:C2	2.68	0.62
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.79	0.62
4:AD:148:VAL:CG1	4:AD:149:ALA:N	2.62	0.62
24:B2:18:PRO:O	24:B2:19:VAL:C	2.38	0.62
31:BA:573:G:N1	31:BA:2030:A:H3'	2.14	0.62
31:BA:758:C:O2	31:BA:1981:A:H2	1.81	0.62
31:BA:994:C:O2	47:BV:10:LYS:NZ	2.33	0.62
31:BA:1254:A:H5'	31:BA:1255:U:H5'	1.82	0.62
31:BA:2820:A:C8	34:BE:109:LYS:HE3	2.35	0.62
33:BD:25:THR:HG23	33:BD:25:THR:O	2.00	0.62
45:BT:32:TYR:CG	45:BT:81:PRO:HB2	2.35	0.62
49:BX:23:GLU:HG3	49:BX:24:GLY:H	1.64	0.62
1:CA:37:U:O2'	1:CA:38:G:H5'	2.00	0.62
1:CA:103:C:OP2	20:CT:14:LYS:HD3	2.00	0.62
1:CA:363:A:C2	12:CL:31:PRO:HG2	2.34	0.62
1:CA:375:U:O3'	16:CP:6:LEU:HB2	1.99	0.62
1:CA:719:C:H5''	1:CA:720:C:OP2	1.99	0.62
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.29	0.62
1:CA:1201:A:H4'	1:CA:1202:G:O5'	1.99	0.62
15:CO:36:ILE:HD12	15:CO:63:ARG:HD3	1.82	0.62
20:CT:50:GLU:HB2	20:CT:100:ILE:CG1	2.30	0.62
23:D1:33:LYS:C	23:D1:34:THR:HG22	2.19	0.62
27:D5:40:LYS:CE	27:D5:49:CYS:SG	2.87	0.62
31:DA:1922:G:H2'	31:DA:1923:U:C6	2.35	0.62
31:DA:1996:C:H4'	31:DA:1997:G:OP1	1.99	0.62
31:DA:2494:G:C4	31:DA:2495:G:C8	2.87	0.62
32:DB:31:C:C2'	32:DB:53:A:H61	2.11	0.62
37:DH:92:ILE:HG22	37:DH:93:GLY:H	1.65	0.62
1:AA:131:C:H2'	1:AA:132:C:H6	1.64	0.62
1:AA:389:A:H2'	1:AA:390:C:C5'	2.28	0.62
1:AA:500:G:N2	1:AA:546:G:H1'	2.14	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.35	0.62
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.29	0.62
3:AC:186:PHE:HD1	3:AC:198:VAL:O	1.81	0.62
7:AG:23:VAL:HG13	7:AG:43:PHE:CZ	2.35	0.62
8:AH:107:LEU:HD23	8:AH:107:LEU:N	2.14	0.62
10:AJ:84:GLN:O	10:AJ:88:LEU:HB2	2.00	0.62
11:AK:23:ALA:HB3	11:AK:86:GLY:O	1.99	0.62
27:B5:42:PRO:O	27:B5:43:HIS:HB2	1.98	0.62
28:B6:20:ASN:O	28:B6:21:TYR:CG	2.52	0.62
31:BA:52:A:O2'	31:BA:53:A:H5'	1.99	0.62
31:BA:271(P):C:C5'	38:BI:45:LYS:HE3	2.28	0.62
31:BA:378:C:H2'	31:BA:379:G:H5'	1.81	0.62
31:BA:1228:G:H2'	31:BA:1229:G:C5'	2.26	0.62
31:BA:1497:U:H3	31:BA:1578:U:P	2.23	0.62
31:BA:2542:A:C8	31:BA:2544:G:O6	2.52	0.62
33:BD:63:ARG:HH11	33:BD:63:ARG:HG3	1.64	0.62
36:BG:120:LEU:HD11	36:BG:179:PRO:HD2	1.80	0.62
37:BH:148:ILE:O	37:BH:151:ILE:HG12	1.99	0.62
40:BO:4:PRO:O	40:BO:5:GLN:CB	2.47	0.62
40:BO:122:LEU:HD13	45:BT:72:VAL:HG11	1.79	0.62
41:BP:48:PRO:O	41:BP:51:PHE:N	2.32	0.62
1:CA:32:A:H2'	1:CA:33:A:C8	2.34	0.62
1:CA:250:A:H1'	1:CA:251:G:OP2	1.99	0.62
1:CA:1101:A:H61	2:CB:103:THR:HB	1.64	0.62
3:CC:130:VAL:HB	3:CC:157:ILE:HG23	1.82	0.62
5:CE:103:GLY:O	5:CE:106:PRO:HD2	2.00	0.62
14:CN:4:LYS:HD2	14:CN:7:ILE:HD11	1.81	0.62
24:D2:49:LYS:CE	24:D2:53:LEU:HD22	2.30	0.62
31:DA:34:C:H3'	31:DA:34:C:C6	2.35	0.62
31:DA:231:C:O2'	31:DA:232:G:H5'	2.00	0.62
31:DA:672:C:O2'	31:DA:673:C:H5'	2.00	0.62
31:DA:774:A:H2	31:DA:787:U:HO2'	0.76	0.62
31:DA:828:U:H3'	31:DA:828:U:O2	2.00	0.62
31:DA:1434:A:O2'	31:DA:1435:G:H5'	1.99	0.62
31:DA:1465:G:C4	31:DA:1466:G:C8	2.88	0.62
31:DA:2283:C:C2'	31:DA:2284:C:H5'	2.30	0.62
31:DA:2469:A:H2	31:DA:2481:G:N2	1.96	0.62
34:DE:24:THR:HG21	34:DE:188:VAL:HG12	1.82	0.62
39:DN:57:ALA:HB1	39:DN:60:ILE:HD11	1.81	0.62
42:DQ:17:LEU:N	42:DQ:17:LEU:HD23	2.14	0.62
42:DQ:81:VAL:C	42:DQ:82:ARG:HG2	2.17	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:66:ARG:HD3	47:DV:94:LEU:HG	1.82	0.62
1:AA:251:G:H4'	1:AA:252:U:O5'	2.00	0.62
1:AA:441:A:H3'	1:AA:442:C:H6	1.65	0.62
1:AA:503:C:H2'	1:AA:504:C:H6	1.65	0.62
1:AA:555:C:C2	1:AA:556:C:C5	2.88	0.62
1:AA:853:G:H2'	1:AA:854:G:H8	1.63	0.62
6:AF:82:ARG:HB2	6:AF:85:VAL:CG2	2.28	0.62
6:AF:100:ASN:H	18:AR:23:LYS:HZ2	1.47	0.62
7:AG:22:LEU:HG	7:AG:62:PHE:HE2	1.65	0.62
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.64	0.62
24:B2:56:GLN:HE21	24:B2:56:GLN:N	1.96	0.62
27:B5:7:PRO:HG2	31:BA:2016:U:O2	1.99	0.62
27:B5:55:ARG:C	27:B5:56:LYS:HG3	2.20	0.62
29:B7:19:ARG:HH11	29:B7:19:ARG:HG2	1.65	0.62
29:B7:37:LYS:HE2	31:BA:469:G:O6	1.99	0.62
31:BA:782:A:H5'	31:BA:783:A:C2	2.34	0.62
31:BA:966:G:C6	31:BA:967:C:N4	2.68	0.62
31:BA:1316:U:H2'	31:BA:1317:A:C8	2.35	0.62
31:BA:1378:A:H4'	31:BA:1379:A:OP1	1.99	0.62
31:BA:1476:C:H2'	31:BA:1477:A:H8	1.65	0.62
31:BA:1847:A:H4'	31:BA:1848:A:OP2	1.98	0.62
31:BA:1876:A:H2'	31:BA:1877:A:C8	2.34	0.62
31:BA:2273:A:H2'	31:BA:2274:A:C8	2.34	0.62
33:BD:159:ALA:H	33:BD:161:THR:HG1	1.44	0.62
35:BF:127:GLU:OE1	35:BF:127:GLU:HA	2.00	0.62
36:BG:29:TRP:C	36:BG:31:VAL:N	2.53	0.62
36:BG:117:PHE:HE1	36:BG:120:LEU:HD23	1.64	0.62
37:BH:16:SER:HB2	37:BH:27:LYS:HB2	1.82	0.62
37:BH:89:ILE:N	37:BH:89:ILE:HD12	2.14	0.62
37:BH:89:ILE:CG1	37:BH:90:LYS:H	2.13	0.62
39:BN:15:LEU:HD13	39:BN:16:ILE:N	2.13	0.62
43:BR:2:ARG:CD	43:BR:2:ARG:N	2.63	0.62
43:BR:5:LYS:HD2	43:BR:5:LYS:H	1.65	0.62
46:BU:95:LEU:HD22	47:BV:4:ILE:CD1	2.30	0.62
46:BU:95:LEU:HD22	47:BV:4:ILE:HD11	1.82	0.62
1:CA:559:A:N3	1:CA:559:A:H2'	2.14	0.62
1:CA:628:G:H2'	1:CA:629:G:C8	2.34	0.62
1:CA:863:U:H2'	1:CA:865:A:OP2	1.98	0.62
1:CA:1430:C:H5'	31:DA:1704:G:C5'	2.29	0.62
31:DA:588:U:C2	35:DF:90:PHE:CE1	2.88	0.62
31:DA:873:G:N2	31:DA:905:U:C2	2.67	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1210:A:H5''	31:DA:1212:G:O4'	2.00	0.62
31:DA:1476:C:H2'	31:DA:1477:A:H8	1.64	0.62
31:DA:1786:A:H1'	31:DA:1938:A:H62	1.62	0.62
31:DA:2094:G:H1'	31:DA:2198:A:N6	2.15	0.62
31:DA:2387:U:H6	31:DA:2387:U:OP2	1.83	0.62
31:DA:2390:U:O2'	31:DA:2391:G:H5'	2.00	0.62
32:DB:66:A:C5	32:DB:109:C:C5	2.87	0.62
33:DD:54:ARG:C	33:DD:218:ARG:HG3	2.19	0.62
36:DG:47:LYS:HD3	36:DG:81:LYS:CD	2.29	0.62
37:DH:158:HIS:CE1	37:DH:168:PRO:HG2	2.35	0.62
39:DN:3:THR:HG22	39:DN:4:TYR:H	1.64	0.62
41:DP:110:TYR:O	41:DP:111:ARG:C	2.37	0.62
44:DS:26:LEU:HD22	44:DS:87:PHE:CE1	2.35	0.62
44:DS:34:HIS:NE2	44:DS:54:LEU:HB2	2.14	0.62
45:DT:88:ILE:CG2	45:DT:89:VAL:HG23	2.30	0.62
46:DU:36:ARG:HD3	46:DU:40:PHE:CZ	2.34	0.62
1:AA:103:C:OP2	20:AT:14:LYS:HD3	2.00	0.62
1:AA:667:G:H4'	15:AO:51:HIS:CE1	2.35	0.62
1:AA:801:U:H2'	1:AA:802:A:H8	1.65	0.62
1:AA:976:G:P	14:AN:32:SER:H	2.23	0.62
1:AA:1337:G:H5''	1:AA:1338:G:OP1	1.99	0.62
3:AC:64:VAL:HB	3:AC:99:VAL:HG12	1.81	0.62
12:AL:62:SER:O	12:AL:64:TYR:N	2.32	0.62
31:BA:106:C:H1'	50:BY:2:ARG:NE	2.13	0.62
31:BA:646:A:H2'	31:BA:647:G:H5'	1.80	0.62
31:BA:795:C:H2'	31:BA:796:C:C6	2.35	0.62
31:BA:1033:U:H5''	31:BA:1034:G:OP1	1.99	0.62
31:BA:1141:U:P	39:BN:25:ARG:HH12	2.23	0.62
31:BA:1317:A:H2'	31:BA:1318:C:H6	1.63	0.62
31:BA:1994:C:O2'	31:BA:1995:U:H5'	2.00	0.62
31:BA:2283:C:C2'	31:BA:2284:C:H5'	2.30	0.62
31:BA:2500:U:H2'	31:BA:2504:U:H5	1.65	0.62
37:BH:92:ILE:HG22	37:BH:93:GLY:H	1.65	0.62
38:BI:120:ILE:HD11	38:BI:140:LEU:HD23	1.81	0.62
43:BR:67:LEU:HD13	43:BR:76:VAL:HG21	1.82	0.62
50:BY:8:LYS:NZ	50:BY:72:VAL:HG23	2.15	0.62
1:CA:1095:U:H5''	1:CA:1109:C:O2	2.00	0.62
3:CC:64:VAL:HB	3:CC:99:VAL:HG12	1.80	0.62
10:CJ:63:PHE:HA	14:CN:59:ALA:H	1.64	0.62
10:CJ:63:PHE:HZ	14:CN:45:ARG:HG3	1.65	0.62
12:CL:27:LEU:HD11	12:CL:64:TYR:CE1	2.35	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:51:HIS:O	15:CO:54:ARG:HB3	2.00	0.62
30:D8:22:VAL:HB	30:D8:53:PRO:CB	2.30	0.62
31:DA:92:A:H2'	31:DA:93:G:O4'	2.00	0.62
31:DA:782:A:H5'	31:DA:783:A:C2	2.35	0.62
31:DA:2061:G:N2	31:DA:2063:C:C2	2.68	0.62
31:DA:2098:U:H2'	31:DA:2099:U:C6	2.35	0.62
36:DG:64:THR:CG2	36:DG:65:GLY:N	2.63	0.62
36:DG:94:LEU:O	36:DG:99:MET:HB2	2.00	0.62
42:DQ:89:ASN:O	42:DQ:91:GLU:N	2.32	0.62
1:AA:327:A:C4	1:AA:329:A:C8	2.87	0.62
1:AA:356:A:C2	1:AA:357:G:H1'	2.35	0.62
1:AA:1256:A:H5'	1:AA:1257:U:OP1	2.00	0.62
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.80	0.62
4:AD:110:PHE:HZ	4:AD:183:GLY:H	1.45	0.62
28:B6:10:LEU:CD1	30:B8:35:GLN:HE22	2.06	0.62
31:BA:580:C:H2'	31:BA:581:C:C6	2.35	0.62
31:BA:624:C:C2'	31:BA:625:G:H5'	2.29	0.62
31:BA:772:C:O2'	31:BA:773:U:H5'	1.98	0.62
31:BA:833:U:H5''	41:BP:48:PRO:HB3	1.82	0.62
31:BA:1000:A:H2'	31:BA:1001:A:C8	2.33	0.62
31:BA:1684:C:C2	31:BA:1705:G:N2	2.68	0.62
31:BA:1747(A):G:H2'	31:BA:1748:G:C5'	2.28	0.62
31:BA:1972:A:H2'	31:BA:1973:G:H8	1.65	0.62
31:BA:2820:A:O2'	31:BA:2821:A:OP1	2.17	0.62
32:BB:28:C:OP1	44:BS:36:TYR:OH	2.14	0.62
34:BE:104:VAL:HG11	34:BE:188:VAL:HG23	1.81	0.62
49:BX:60:ARG:HD3	49:BX:60:ARG:H	1.63	0.62
50:BY:28:LYS:C	50:BY:29:GLU:OE1	2.38	0.62
1:CA:411:A:C4	1:CA:413:G:O4'	2.53	0.62
1:CA:625:G:H2'	1:CA:626:U:C6	2.35	0.62
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.65	0.62
3:CC:52:LEU:H	3:CC:52:LEU:CD2	2.13	0.62
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.65	0.62
3:CC:73:PRO:HA	3:CC:76:VAL:CG1	2.29	0.62
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.81	0.62
7:CG:85:TYR:CD1	7:CG:154:TYR:HE1	2.18	0.62
8:CH:64:LYS:HG2	8:CH:79:VAL:HG21	1.82	0.62
31:DA:370:G:C4'	31:DA:371:A:OP2	2.39	0.62
31:DA:661:C:H4'	41:DP:18:ARG:HG2	1.81	0.62
31:DA:910:A:C8	42:DQ:13:GLN:HB2	2.35	0.62
31:DA:947:G:N2	31:DA:971:C:C2	2.68	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:971:C:H2'	31:DA:972:G:H5'	1.80	0.62
31:DA:1033:U:H5''	31:DA:1034:G:P	2.40	0.62
32:DB:21:G:O2'	32:DB:22:U:C6	2.52	0.62
47:DV:13:ARG:HH12	47:DV:15:GLU:CG	2.12	0.62
47:DV:40:LEU:O	47:DV:41:GLY:O	2.18	0.62
47:DV:90:PRO:HD2	47:DV:91:TYR:H	1.65	0.62
50:DY:28:LYS:H	50:DY:28:LYS:CD	1.96	0.62
1:AA:1059:C:O2	10:AJ:53:PRO:HG3	1.99	0.62
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.34	0.62
2:AB:32:ILE:HD12	2:AB:41:ILE:O	2.00	0.62
3:AC:11:ARG:O	3:AC:14:ILE:O	2.17	0.62
3:AC:135:LYS:NZ	5:AE:53:LEU:HD11	2.15	0.62
31:BA:92:A:H2'	31:BA:93:G:O4'	2.00	0.62
31:BA:910:A:N7	42:BQ:13:GLN:HB2	2.14	0.62
31:BA:1239:G:H2'	31:BA:1240:U:O4'	2.00	0.62
31:BA:2205:C:C2	31:BA:2220:G:C2	2.88	0.62
33:BD:27:THR:O	33:BD:29:PRO:HD2	1.99	0.62
33:BD:44:ASN:HB3	33:BD:49:ILE:CA	2.28	0.62
33:BD:210:GLY:O	33:BD:211:ARG:HB3	1.99	0.62
36:BG:66:GLN:OE1	36:BG:98:ARG:HG3	2.00	0.62
46:BU:34:LYS:HE2	46:BU:34:LYS:HA	1.80	0.62
47:BV:18:LEU:HD13	47:BV:18:LEU:C	2.20	0.62
47:BV:73:SER:OG	47:BV:75:PHE:CE1	2.51	0.62
50:BY:45:VAL:HG13	50:BY:62:GLU:CG	2.30	0.62
1:CA:556:C:C2'	1:CA:557:G:H5'	2.30	0.62
1:CA:1416:G:H2'	1:CA:1417:G:O4'	1.99	0.62
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.65	0.62
1:CA:1502:A:H5'	1:CA:1504:G:N7	2.15	0.62
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.82	0.62
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.99	0.62
23:D1:10:LYS:HB2	23:D1:14:VAL:N	2.14	0.62
30:D8:18:ALA:HB3	31:DA:651:G:H4'	1.82	0.62
31:DA:1292:U:H2'	31:DA:1293:C:H6	1.57	0.62
31:DA:1515:G:H2'	31:DA:1516:C:C6	2.34	0.62
31:DA:1786:A:C1'	31:DA:1938:A:N6	2.62	0.62
31:DA:1994:C:O2'	31:DA:1995:U:H5'	2.00	0.62
31:DA:2318:G:O2'	31:DA:2319:G:P	2.58	0.62
31:DA:2580:U:H5''	34:DE:131:ALA:H	1.64	0.62
32:DB:24:G:C2	32:DB:56:G:N2	2.67	0.62
49:DX:23:GLU:HG3	49:DX:24:GLY:H	1.64	0.62
50:DY:44:ILE:HG22	50:DY:45:VAL:N	2.15	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:559:A:H4'	1:AA:560:U:H3'	1.82	0.61
1:AA:624:C:H2'	1:AA:625:G:C8	2.35	0.61
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.00	0.61
4:AD:92:VAL:O	4:AD:96:LEU:HD22	2.00	0.61
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.82	0.61
23:B1:13:ILE:O	23:B1:14:VAL:HB	2.00	0.61
27:B5:4:HIS:HD2	31:BA:2056:G:H1	1.47	0.61
31:BA:36:G:C5	31:BA:37:C:C5	2.88	0.61
31:BA:355:G:C2	31:BA:356:G:C8	2.88	0.61
31:BA:633:A:H2'	31:BA:634:C:H5'	1.81	0.61
31:BA:744:G:OP1	34:BE:132:HIS:HB3	1.99	0.61
31:BA:948:G:O2'	31:BA:949:C:H5'	1.99	0.61
31:BA:2012:G:O3'	48:BW:96:ILE:HG13	1.99	0.61
31:BA:2655:G:O2'	31:BA:2656:U:C5	2.53	0.61
33:BD:253:GLN:HB3	33:BD:255:LYS:HZ3	1.64	0.61
39:BN:15:LEU:HD21	39:BN:55:VAL:HG22	1.82	0.61
39:BN:47:ALA:HB2	39:BN:112:LEU:HD21	1.82	0.61
45:BT:50:ILE:HD11	45:BT:102:ILE:CD1	2.16	0.61
1:CA:322:C:H41	1:CA:328:C:H6	1.48	0.61
1:CA:433:C:H2'	1:CA:434:U:C6	2.35	0.61
1:CA:500:G:N2	1:CA:546:G:H1'	2.15	0.61
1:CA:537:G:H2'	1:CA:538:G:C8	2.35	0.61
1:CA:622:A:C8	1:CA:623:C:C5	2.87	0.61
1:CA:738:C:H2'	1:CA:739:C:C6	2.35	0.61
1:CA:1098:C:N3	1:CA:1099:G:C8	2.68	0.61
1:CA:1332:A:H8	1:CA:1332:A:O5'	1.83	0.61
4:CD:148:VAL:CG1	4:CD:152:SER:HB2	2.29	0.61
8:CH:44:PHE:HA	8:CH:79:VAL:HG11	1.80	0.61
13:CM:108:ARG:CZ	13:CM:114:ARG:HG2	2.30	0.61
31:DA:27:G:H22	31:DA:512:G:H2'	1.59	0.61
31:DA:966:G:C6	31:DA:967:C:N4	2.68	0.61
31:DA:1007:C:H5''	39:DN:35:ARG:HH11	1.65	0.61
31:DA:1114:G:H2'	31:DA:1115:G:C8	2.34	0.61
34:DE:55:ASN:HD21	34:DE:75:VAL:HG21	1.65	0.61
36:DG:64:THR:CG2	36:DG:65:GLY:H	2.13	0.61
42:DQ:140:ALA:H	51:DZ:53:ILE:CD1	2.13	0.61
1:AA:96:U:O2'	1:AA:97:G:H8	1.80	0.61
1:AA:359:U:H2'	1:AA:360:A:C8	2.36	0.61
1:AA:363:A:C2	12:AL:31:PRO:HG2	2.34	0.61
1:AA:397:A:N7	1:AA:548:G:C8	2.68	0.61
1:AA:1098:C:N3	1:AA:1099:G:C8	2.68	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1332:A:H8	1:AA:1332:A:O5'	1.83	0.61
2:AB:162:ILE:O	2:AB:162:ILE:HD12	2.01	0.61
3:AC:34:LEU:O	3:AC:38:ARG:HG2	2.01	0.61
5:AE:10:MET:CB	5:AE:32:VAL:HG22	2.27	0.61
13:AM:15:VAL:HG22	13:AM:41:PRO:HA	1.82	0.61
27:B5:4:HIS:HB3	27:B5:5:PRO:CD	2.27	0.61
31:BA:729:G:OP1	33:BD:10:THR:OG1	2.17	0.61
31:BA:784:A:C5	33:BD:229:VAL:HG21	2.35	0.61
31:BA:784:A:C5'	31:BA:785:G:OP1	2.37	0.61
31:BA:807:U:C2'	31:BA:808:G:O5'	2.48	0.61
31:BA:1114:G:H2'	31:BA:1115:G:C8	2.34	0.61
31:BA:1359:A:H8	31:BA:1372:U:O4	1.82	0.61
31:BA:1777:U:O2'	31:BA:1778:U:H5'	2.00	0.61
31:BA:2318:G:O2'	31:BA:2319:G:P	2.58	0.61
31:BA:2507:C:H5''	31:BA:2573:C:N4	2.15	0.61
31:BA:2596:U:C2'	31:BA:2597:G:H5'	2.30	0.61
35:BF:102:PRO:HB2	35:BF:105:VAL:HG23	1.82	0.61
37:BH:103:LEU:HD23	37:BH:115:VAL:HB	1.82	0.61
38:BI:15:VAL:HG23	38:BI:16:GLY:N	2.14	0.61
41:BP:33:ARG:O	41:BP:34:GLY:C	2.38	0.61
45:BT:32:TYR:HD2	45:BT:81:PRO:O	1.83	0.61
47:BV:66:ARG:HD3	47:BV:94:LEU:HG	1.80	0.61
1:CA:115:G:H4'	1:CA:116:A:O5'	2.00	0.61
1:CA:560:U:H4'	1:CA:561:U:O5'	1.99	0.61
8:CH:73:ASP:OD2	8:CH:75:ARG:HG3	2.00	0.61
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.81	0.61
18:CR:74:ARG:HB3	18:CR:81:PHE:CE1	2.35	0.61
27:D5:41:PRO:HG2	27:D5:44:THR:OG1	2.00	0.61
29:D7:47:ARG:C	29:D7:48:LYS:HD3	2.21	0.61
31:DA:514:A:H2'	31:DA:515:A:C8	2.35	0.61
31:DA:1317:A:H2'	31:DA:1318:C:C6	2.34	0.61
31:DA:1830:C:H4'	33:DD:15:PHE:CZ	2.35	0.61
31:DA:2199:A:C5'	31:DA:2200:C:OP2	2.49	0.61
31:DA:2335:A:C8	31:DA:2337:G:C5	2.88	0.61
31:DA:2358:G:H1	41:DP:55:ARG:HH22	1.48	0.61
31:DA:2636:U:H4'	34:DE:80:GLU:OE1	1.99	0.61
31:DA:2655:G:O2'	31:DA:2656:U:C5	2.53	0.61
33:DD:206:LEU:N	33:DD:206:LEU:HD23	2.15	0.61
34:DE:11:MET:HE3	34:DE:186:GLY:HA2	1.81	0.61
37:DH:70:THR:O	37:DH:72:ILE:N	2.34	0.61
49:DX:53:LYS:NZ	49:DX:55:ASN:HD21	1.96	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:147:G:C2'	1:AA:148:G:H5'	2.30	0.61
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.64	0.61
1:AA:1058:G:C6	1:AA:1059:C:N3	2.68	0.61
1:AA:1128:C:H5'	9:AI:16:ARG:NH1	2.15	0.61
4:AD:172:PRO:HB2	4:AD:187:ARG:NH2	2.15	0.61
14:AN:4:LYS:HD2	14:AN:7:ILE:HD11	1.82	0.61
15:AO:78:TYR:O	15:AO:82:ILE:HG22	1.99	0.61
18:AR:53:ARG:HH21	18:AR:60:ALA:N	1.97	0.61
18:AR:56:THR:OG1	18:AR:58:LEU:HD13	2.01	0.61
23:B1:34:THR:HG21	31:BA:388:G:OP2	2.00	0.61
31:BA:300:A:H2'	31:BA:334:C:H1'	1.82	0.61
31:BA:325:G:H2'	31:BA:326:G:O4'	2.00	0.61
31:BA:394:A:C5	31:BA:395:U:C4	2.88	0.61
31:BA:491:G:H2'	31:BA:492:A:C8	2.35	0.61
31:BA:542:C:O5'	31:BA:542:C:H6	1.83	0.61
31:BA:542:C:C4	31:BA:543:C:N4	2.68	0.61
31:BA:1179:C:H3'	31:BA:1180:C:H5''	1.80	0.61
31:BA:1722:A:C6	31:BA:1741:A:C6	2.88	0.61
31:BA:2464:C:O2'	31:BA:2465:C:H5''	1.99	0.61
31:BA:2842:G:H2'	31:BA:2843:G:H8	1.65	0.61
33:BD:70:TRP:HZ3	33:BD:146:GLU:OE2	1.84	0.61
35:BF:9:ILE:HG23	35:BF:13:SER:O	2.00	0.61
37:BH:152:ARG:H	37:BH:162:ILE:HD11	1.65	0.61
40:BO:19:ILE:HG22	40:BO:43:VAL:HA	1.80	0.61
44:BS:99:LYS:O	44:BS:101:LEU:N	2.29	0.61
45:BT:109:GLU:O	45:BT:112:ARG:HG3	2.00	0.61
47:BV:71:LEU:HD22	47:BV:72:VAL:HG23	1.80	0.61
47:BV:82:ARG:CG	47:BV:82:ARG:NH1	2.42	0.61
48:BW:20:VAL:HG23	48:BW:21:VAL:N	2.15	0.61
48:BW:64:MET:O	48:BW:65:LEU:CB	2.47	0.61
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.00	0.61
1:CA:343:U:C2	1:CA:347:G:N1	2.68	0.61
1:CA:359:U:H2'	1:CA:360:A:H8	1.64	0.61
1:CA:477:A:O2'	1:CA:479:C:H5'	2.00	0.61
1:CA:724:G:H2'	1:CA:725:G:H8	1.65	0.61
1:CA:980:C:H3'	1:CA:981:U:H6	1.65	0.61
6:CF:82:ARG:HB2	6:CF:85:VAL:CG2	2.27	0.61
12:CL:53:ARG:HH12	12:CL:92:ASP:HB3	1.65	0.61
31:DA:102:G:O2'	31:DA:103:A:OP2	2.19	0.61
31:DA:646:A:H2'	31:DA:647:G:H5'	1.83	0.61
31:DA:671:C:O2'	31:DA:672:C:H5'	2.01	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:942:G:C2'	31:DA:943:U:H5'	2.30	0.61
31:DA:1550:C:H2'	31:DA:1551:C:H6	1.65	0.61
31:DA:1747(A):G:H2'	31:DA:1748:G:C5'	2.28	0.61
31:DA:2393:A:O2'	31:DA:2394:C:H5'	2.00	0.61
31:DA:2536:G:C5	31:DA:2537:U:C4	2.88	0.61
41:DP:50:ARG:HG2	41:DP:50:ARG:HH21	1.65	0.61
44:DS:92:TYR:CD1	44:DS:93:LYS:N	2.69	0.61
45:DT:90:GLN:HG2	45:DT:120:ARG:NH1	2.15	0.61
47:DV:2:PHE:CB	47:DV:42:GLY:CA	2.70	0.61
49:DX:35:THR:O	49:DX:36:LYS:O	2.18	0.61
50:DY:95:LYS:NZ	50:DY:100:ALA:HB1	2.15	0.61
51:DZ:5:LEU:HD13	51:DZ:43:GLU:HB3	1.83	0.61
1:AA:327:A:C2	1:AA:329:A:C4	2.88	0.61
1:AA:556:C:C2'	1:AA:557:G:H5'	2.29	0.61
1:AA:1199:U:H4'	10:AJ:54:PHE:CE1	2.35	0.61
3:AC:52:LEU:H	3:AC:52:LEU:CD2	2.12	0.61
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.20	0.61
12:AL:91:LYS:O	12:AL:91:LYS:HG3	2.00	0.61
23:B1:26:ARG:HB3	23:B1:34:THR:CA	2.29	0.61
30:B8:18:ALA:HB3	31:BA:651:G:H4'	1.82	0.61
31:BA:70:G:H21	31:BA:71:A:H62	1.48	0.61
31:BA:1132:A:H1'	39:BN:73:THR:HG21	1.82	0.61
31:BA:1636:C:H2'	31:BA:1637:A:C8	2.35	0.61
32:BB:21:G:C6	32:BB:63:G:C2	2.89	0.61
32:BB:94:C:H2'	32:BB:95:C:C6	2.31	0.61
33:BD:92:ILE:HD13	33:BD:104:TYR:CE2	2.35	0.61
44:BS:46:VAL:HG12	44:BS:47:THR:N	2.15	0.61
1:CA:251:G:H4'	1:CA:252:U:O5'	1.99	0.61
1:CA:272:C:H2'	1:CA:273:A:H8	1.65	0.61
1:CA:299:G:C5	1:CA:300:A:C6	2.88	0.61
1:CA:552:U:C5'	12:CL:86:ARG:HD2	2.30	0.61
1:CA:865:A:H2	1:CA:918:A:H4'	1.65	0.61
1:CA:1256:A:H5'	1:CA:1257:U:OP1	2.00	0.61
7:CG:62:PHE:HA	7:CG:124:LEU:HD22	1.81	0.61
11:CK:73:MET:SD	11:CK:103:LEU:HD22	2.40	0.61
23:D1:87:PRO:CD	23:D1:88:LYS:N	2.62	0.61
24:D2:12:GLU:HA	24:D2:14:ARG:HH21	1.65	0.61
30:D8:47:LYS:HE2	30:D8:49:VAL:HG13	1.83	0.61
31:DA:58:G:H1	31:DA:69:C:H42	1.48	0.61
31:DA:675:A:OP1	35:DF:63:LYS:HE2	2.01	0.61
31:DA:828:U:H4'	31:DA:831:G:N1	2.16	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:996:A:N6	31:DA:1160:G:C6	2.68	0.61
31:DA:1550:C:O2'	31:DA:1551:C:H5'	2.01	0.61
31:DA:1893:C:C5	31:DA:1894:C:C5	2.88	0.61
31:DA:2280:G:H2'	31:DA:2281:C:H5'	1.82	0.61
32:DB:35:U:C4	32:DB:36:C:N4	2.68	0.61
33:DD:24:ILE:CG2	33:DD:24:ILE:O	2.48	0.61
36:DG:20:ILE:HA	36:DG:25:TYR:CD2	2.36	0.61
37:DH:85:LYS:HZ3	37:DH:145:ALA:HA	1.63	0.61
37:DH:157:TYR:CE1	37:DH:171:LEU:N	2.67	0.61
47:DV:43:GLU:HA	47:DV:48:GLY:HA3	1.82	0.61
50:DY:47:LYS:N	50:DY:47:LYS:CD	2.59	0.61
51:DZ:175:VAL:HB	51:DZ:176:PRO:HD2	1.81	0.61
1:AA:222:U:H2'	1:AA:223:U:C6	2.35	0.61
1:AA:710:G:H5''	6:AF:54:LYS:HZ1	1.64	0.61
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.36	0.61
8:AH:44:PHE:HA	8:AH:79:VAL:HG11	1.82	0.61
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	1.82	0.61
20:AT:48:LYS:HB2	20:AT:52:ALA:HB2	1.83	0.61
24:B2:51:ARG:O	24:B2:52:ASP:CB	2.47	0.61
31:BA:244:A:C2	31:BA:255:A:C4	2.87	0.61
31:BA:271(G):C:O2'	31:BA:271(H):G:H5'	2.00	0.61
31:BA:2752:C:C2	31:BA:2753:A:C8	2.88	0.61
31:BA:2752:C:N3	31:BA:2753:A:N7	2.48	0.61
32:BB:21:G:O2'	32:BB:22:U:P	2.57	0.61
35:BF:59:TYR:HB3	35:BF:78:ILE:HD11	1.83	0.61
36:BG:57:ALA:HB2	36:BG:90:LEU:HD21	1.82	0.61
37:BH:144:VAL:O	37:BH:148:ILE:HG12	2.00	0.61
37:BH:164:TYR:HB2	37:BH:166:GLY:H	1.65	0.61
1:CA:279:A:OP2	17:CQ:95:TYR:OH	2.16	0.61
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.00	0.61
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.14	0.61
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.35	0.61
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.31	0.61
23:D1:67:ILE:O	23:D1:70:VAL:HB	2.00	0.61
27:D5:11:THR:HG21	31:DA:1264:G:H5'	1.82	0.61
31:DA:729:G:C5	33:DD:208:LYS:HB2	2.36	0.61
31:DA:1204:A:C2	31:DA:1241:A:C2	2.89	0.61
33:DD:27:THR:O	33:DD:29:PRO:HD2	2.00	0.61
35:DF:110:LEU:HD22	35:DF:202:PHE:CE1	2.36	0.61
36:DG:108:ASN:O	36:DG:112:PRO:HG2	1.99	0.61
36:DG:120:LEU:HD11	36:DG:179:PRO:HD2	1.81	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:16:ILE:O	39:DN:54:VAL:HA	2.01	0.61
39:DN:47:ALA:HB2	39:DN:112:LEU:CD2	2.30	0.61
41:DP:47:ASP:HB2	41:DP:51:PHE:HB2	1.81	0.61
42:DQ:141:GLN:HE22	51:DZ:89:PHE:CB	2.11	0.61
44:DS:28:VAL:O	44:DS:29:PHE:HB3	1.99	0.61
44:DS:59:LYS:HB2	44:DS:65:VAL:HG21	1.83	0.61
45:DT:57:PHE:O	45:DT:59:THR:N	2.32	0.61
45:DT:100:TYR:HD2	45:DT:103:ARG:HH21	1.46	0.61
1:AA:724:G:H2'	1:AA:725:G:H8	1.65	0.61
3:AC:102:ASN:O	3:AC:103:VAL:HG23	2.01	0.61
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.83	0.61
23:B1:56:GLN:HA	23:B1:56:GLN:OE1	1.97	0.61
28:B6:9:LEU:HD13	28:B6:9:LEU:C	2.21	0.61
28:B6:42:TRP:HA	28:B6:42:TRP:HE3	1.64	0.61
31:BA:322:A:OP2	35:BF:169:ASN:HB2	2.00	0.61
31:BA:646:A:H2'	31:BA:647:G:C5'	2.30	0.61
31:BA:1889:A:O2'	31:BA:2087:G:H5'	1.99	0.61
31:BA:2287:A:C2	31:BA:2346:A:H2	2.18	0.61
31:BA:2650:U:H2'	31:BA:2651:C:C6	2.36	0.61
32:BB:50:G:OP2	44:BS:62:LYS:HB2	2.01	0.61
33:BD:186:HIS:CD2	33:BD:188:GLU:H	2.18	0.61
35:BF:83:PHE:O	35:BF:85:GLY:N	2.33	0.61
41:BP:115:LEU:HA	41:BP:134:ALA:HB2	1.82	0.61
45:BT:33:LYS:HZ2	45:BT:33:LYS:N	1.99	0.61
47:BV:83:ARG:HG3	47:BV:83:ARG:HH11	1.65	0.61
49:BX:36:LYS:NZ	49:BX:39:ILE:HA	2.16	0.61
51:BZ:166:SER:OG	51:BZ:167:PRO:HA	2.01	0.61
1:CA:9:G:O2'	1:CA:10:A:H5'	1.99	0.61
1:CA:434:U:H2'	1:CA:435:C:C6	2.35	0.61
3:CC:34:LEU:O	3:CC:38:ARG:HG2	2.01	0.61
4:CD:7:PRO:HB3	4:CD:10:ARG:HD2	1.83	0.61
9:CI:118:LYS:NZ	9:CI:118:LYS:HB3	2.14	0.61
15:CO:62:GLN:HA	15:CO:65:ARG:HH11	1.65	0.61
20:CT:10:LEU:O	20:CT:12:ALA:N	2.34	0.61
22:D0:11:ARG:O	22:D0:14:ARG:NH2	2.32	0.61
27:D5:2:ALA:N	31:DA:2014:A:HO2'	1.97	0.61
29:D7:48:LYS:HD3	29:D7:48:LYS:N	2.15	0.61
31:DA:448:U:C3'	31:DA:449:A:H5'	2.30	0.61
31:DA:675:A:C6	31:DA:676:A:C6	2.89	0.61
31:DA:875:G:C4'	51:DZ:170:THR:HG21	2.30	0.61
31:DA:1235:G:C6	31:DA:1236:G:N1	2.69	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1278:A:O3'	43:DR:34:ILE:HG13	2.00	0.61
31:DA:1688:U:H1'	31:DA:1701:A:C5	2.35	0.61
31:DA:1722:A:C6	31:DA:1741:A:C6	2.89	0.61
31:DA:2267:A:H5''	31:DA:2268:A:H5''	1.81	0.61
31:DA:2394:C:P	41:DP:63:PRO:HD2	2.40	0.61
31:DA:2659:G:C1'	31:DA:2663:G:H22	2.14	0.61
31:DA:2679:A:H5'	34:DE:165:VAL:HG21	1.82	0.61
33:DD:218:ARG:HB3	33:DD:219:PRO:HD2	1.81	0.61
35:DF:185:ASP:OD1	35:DF:188:ARG:NH1	2.31	0.61
40:DO:115:VAL:HG13	40:DO:121:VAL:HG21	1.83	0.61
44:DS:56:LEU:HD23	44:DS:57:LYS:N	2.15	0.61
47:DV:1:MET:N	47:DV:44:LYS:HD2	2.15	0.61
47:DV:2:PHE:HB2	47:DV:42:GLY:HA2	1.79	0.61
1:AA:719:C:H3'	1:AA:720:C:C6	2.36	0.61
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.83	0.61
1:AA:1495:U:H2'	1:AA:1496:C:H6	1.65	0.61
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.23	0.61
9:AI:118:LYS:NZ	9:AI:118:LYS:HB3	2.14	0.61
10:AJ:63:PHE:HZ	14:AN:45:ARG:HG3	1.65	0.61
30:B8:14:VAL:HG11	30:B8:22:VAL:CG1	2.29	0.61
30:B8:32:LEU:HB3	30:B8:35:GLN:N	2.14	0.61
31:BA:221:A:N1	31:BA:265:A:O2'	2.31	0.61
31:BA:910:A:C8	42:BQ:13:GLN:HB2	2.35	0.61
31:BA:995:C:N3	39:BN:4:TYR:CE1	2.69	0.61
31:BA:1515:G:H2'	31:BA:1516:C:C6	2.36	0.61
31:BA:1784:A:H4'	31:BA:1785:A:C5'	2.31	0.61
31:BA:2565:A:C5'	31:BA:2566:A:OP2	2.36	0.61
31:BA:2679:A:H5'	34:BE:165:VAL:HG21	1.83	0.61
31:BA:2795:G:N2	31:BA:2796:U:O2'	2.34	0.61
34:BE:65:GLY:HA2	34:BE:70:ALA:CB	2.31	0.61
42:BQ:141:GLN:HB2	51:BZ:98:MET:HB2	1.83	0.61
45:BT:7:ILE:O	45:BT:8:LYS:C	2.39	0.61
47:BV:43:GLU:HA	47:BV:48:GLY:CA	2.30	0.61
1:CA:359:U:H2'	1:CA:360:A:C8	2.35	0.61
1:CA:716:A:N3	11:CK:118:GLY:HA2	2.15	0.61
1:CA:921:U:HO2'	1:CA:922:G:C1'	2.13	0.61
1:CA:926:G:C6	1:CA:1505:G:C5	2.89	0.61
1:CA:1166:G:N2	1:CA:1170:A:OP2	2.32	0.61
23:D1:56:GLN:HA	23:D1:56:GLN:OE1	1.99	0.61
27:D5:51:TYR:HB3	27:D5:52:TYR:CD2	2.35	0.61
31:DA:195:A:H4'	31:DA:251:A:O2'	2.00	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:300:A:H2'	31:DA:334:C:H1'	1.82	0.61
31:DA:1497:U:N3	31:DA:1578:U:O5'	2.33	0.61
31:DA:2252:G:H2'	31:DA:2253:G:H8	1.65	0.61
31:DA:2277:G:H2'	31:DA:2278:A:H5'	1.82	0.61
31:DA:2596:U:C2'	31:DA:2597:G:H5'	2.31	0.61
31:DA:2599:G:C8	33:DD:236:GLY:HA2	2.36	0.61
32:DB:21:G:C6	32:DB:63:G:C2	2.89	0.61
33:DD:35:LYS:HG2	33:DD:64:ILE:H	1.64	0.61
34:DE:147:PRO:HB2	34:DE:149:ARG:HG2	1.81	0.61
37:DH:40:GLU:O	37:DH:41:MET:HB2	2.00	0.61
41:DP:111:ARG:HA	41:DP:128:HIS:CD2	2.35	0.61
1:AA:322:C:H41	1:AA:328:C:H6	1.47	0.61
1:AA:1346:A:C8	1:AA:1348:U:O2	2.54	0.61
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.01	0.61
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.01	0.61
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.10	0.61
9:AI:53:VAL:HG12	9:AI:95:LYS:HG2	1.83	0.61
11:AK:111:ASP:CA	18:AR:84:LYS:HE2	2.30	0.61
15:AO:7:GLU:O	15:AO:10:LYS:HB3	2.00	0.61
24:B2:41:ILE:O	24:B2:42:GLY:C	2.38	0.61
31:BA:128:C:H2'	31:BA:129:C:H6	1.63	0.61
31:BA:448:U:C3'	31:BA:449:A:H5'	2.30	0.61
31:BA:518:G:H4'	48:BW:18:ARG:NH1	2.16	0.61
31:BA:833:U:H2'	31:BA:834:C:H6	1.64	0.61
31:BA:1496:A:C8	31:BA:1577:C:O2'	2.54	0.61
31:BA:1504:C:O2'	31:BA:1505:C:C5'	2.49	0.61
33:BD:241:PRO:C	33:BD:242:ARG:HD2	2.21	0.61
35:BF:21:ALA:HB3	35:BF:23:ASP:OD2	2.00	0.61
44:BS:89:ARG:HB3	44:BS:92:TYR:HB2	1.80	0.61
44:BS:92:TYR:CD1	44:BS:93:LYS:N	2.69	0.61
47:BV:22:VAL:HG21	47:BV:96:ILE:HD12	1.82	0.61
49:BX:30:VAL:HG23	49:BX:76:ARG:HA	1.83	0.61
51:BZ:149:SER:HB2	51:BZ:173:ALA:HA	1.81	0.61
51:BZ:175:VAL:HB	51:BZ:176:PRO:HD2	1.83	0.61
1:CA:684:A:C2	1:CA:706:A:N6	2.68	0.61
1:CA:715:A:O2'	1:CA:716:A:H5'	2.00	0.61
1:CA:1130:A:H1'	1:CA:1146:A:C2	2.36	0.61
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.35	0.61
9:CI:46:ALA:HA	9:CI:78:LYS:HZ2	1.65	0.61
9:CI:53:VAL:HG12	9:CI:95:LYS:HG2	1.82	0.61
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.01	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:36:CYS:HB3	27:D5:38:ALA:HB2	1.81	0.61
31:DA:271(Q):G:O2'	31:DA:271(R):G:C8	2.54	0.61
31:DA:557:U:H2'	31:DA:558:G:C8	2.35	0.61
31:DA:794:G:H2'	31:DA:795:C:C6	2.36	0.61
31:DA:935:C:O2'	31:DA:936:C:H5'	2.01	0.61
31:DA:1022:G:C5	31:DA:1140:C:C4	2.88	0.61
31:DA:1241:A:C2'	31:DA:1242:A:O5'	2.48	0.61
31:DA:1506:C:O2	31:DA:1506:C:H2'	2.01	0.61
31:DA:1748:G:H5'	31:DA:1748:G:H8	1.65	0.61
35:DF:59:TYR:HB3	35:DF:78:ILE:HD11	1.82	0.61
39:DN:91:LEU:CD2	39:DN:98:VAL:HG21	2.30	0.61
43:DR:4:LEU:O	43:DR:4:LEU:CD1	2.46	0.61
45:DT:28:VAL:HG22	45:DT:46:GLU:CA	2.31	0.61
48:DW:56:ALA:O	48:DW:57:ASN:C	2.39	0.61
1:AA:148:G:O2'	1:AA:149:A:H5'	2.00	0.61
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.83	0.61
1:AA:684:A:C2	1:AA:706:A:N6	2.69	0.61
1:AA:774:G:O2'	1:AA:775:G:H5'	2.00	0.61
1:AA:963:G:N3	10:AJ:55:LYS:NZ	2.44	0.61
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.65	0.61
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.65	0.61
10:AJ:65:LEU:HD13	14:AN:56:VAL:HG22	1.82	0.61
11:AK:62:GLN:C	11:AK:64:ALA:H	2.04	0.61
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.64	0.61
12:AL:102:ARG:CD	12:AL:108:ALA:O	2.49	0.61
19:AS:5:LEU:HG	19:AS:10:PHE:CD1	2.36	0.61
28:B6:48:VAL:HG22	28:B6:49:HIS:N	2.15	0.61
31:BA:836:G:C5	31:BA:837:C:C4	2.89	0.61
31:BA:870:A:C2	31:BA:908:C:C2	2.88	0.61
31:BA:1762:A:H8	31:BA:1762:A:O5'	1.82	0.61
31:BA:1899:G:N2	31:BA:1902:C:H5	1.93	0.61
32:BB:57:A:C8	36:BG:27:ASN:HB3	2.35	0.61
37:BH:40:GLU:O	37:BH:41:MET:HB2	2.00	0.61
37:BH:153:LYS:HD3	37:BH:153:LYS:N	2.14	0.61
44:BS:52:SER:CB	44:BS:55:ALA:HB3	2.31	0.61
49:BX:25:LYS:HG3	49:BX:26:TYR:CD1	2.35	0.61
50:BY:68:HIS:CE1	50:BY:70:SER:HB3	2.36	0.61
1:CA:441:A:H3'	1:CA:442:C:C6	2.34	0.61
1:CA:695:A:H61	1:CA:797:C:C1'	2.13	0.61
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.00	0.61
2:CB:158:LEU:H	2:CB:158:LEU:HD12	1.66	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:102:ASN:O	3:CC:103:VAL:HG23	2.01	0.61
6:CF:52:ILE:HD12	6:CF:87:ARG:HH12	1.64	0.61
10:CJ:84:GLN:O	10:CJ:88:LEU:HB2	2.01	0.61
24:D2:41:ILE:O	24:D2:42:GLY:C	2.38	0.61
31:DA:1215:G:C2'	31:DA:1216:G:H5'	2.30	0.61
31:DA:1378:A:H4'	31:DA:1379:A:OP1	2.01	0.61
31:DA:1580:A:OP2	31:DA:1580:A:C8	2.53	0.61
32:DB:21:G:O2'	32:DB:22:U:P	2.58	0.61
32:DB:31:C:H2'	32:DB:53:A:H61	1.66	0.61
37:DH:74:ASN:HB3	37:DH:138:LYS:HD2	1.83	0.61
1:AA:579:G:C6	1:AA:580:U:C4	2.89	0.61
1:AA:1166:G:N2	1:AA:1170:A:OP2	2.32	0.61
2:AB:89:GLY:O	2:AB:90:MET:HE2	2.00	0.61
4:AD:31:CYS:C	4:AD:33:MET:N	2.52	0.61
12:AL:8:ASN:ND2	17:AQ:34:LYS:HE2	2.15	0.61
12:AL:38:THR:HG22	12:AL:57:LYS:O	2.00	0.61
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.31	0.61
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.82	0.61
20:AT:10:LEU:O	20:AT:12:ALA:N	2.33	0.61
20:AT:13:LEU:HD12	20:AT:13:LEU:N	2.08	0.61
23:B1:48:LYS:C	23:B1:48:LYS:HD3	2.22	0.61
27:B5:40:LYS:NZ	27:B5:46:CYS:H	1.98	0.61
28:B6:44:ARG:O	28:B6:45:LYS:HG2	2.00	0.61
31:BA:528:A:C2	31:BA:2043:C:H4'	2.35	0.61
31:BA:769:G:O2'	31:BA:770:G:H5'	2.01	0.61
31:BA:1509(B):A:C2'	31:BA:1510:G:H8	2.14	0.61
31:BA:1509(B):A:C3'	31:BA:1510:G:H8	2.12	0.61
31:BA:1669:A:H5''	31:BA:1670:C:OP2	2.01	0.61
31:BA:1839:G:C8	31:BA:1839:G:H5'	2.36	0.61
31:BA:2061:G:N2	31:BA:2063:C:C2	2.69	0.61
31:BA:2094:G:H1'	31:BA:2198:A:N6	2.15	0.61
31:BA:2334:G:C2	44:BS:15:ARG:NH1	2.68	0.61
31:BA:2390:U:O2'	31:BA:2391:G:H5'	2.01	0.61
31:BA:2523:G:H2'	31:BA:2524:G:H5'	1.81	0.61
31:BA:2749:A:H4'	37:BH:62:LYS:HB3	1.82	0.61
33:BD:28:GLU:HB2	33:BD:29:PRO:CD	2.31	0.61
33:BD:186:HIS:HD2	33:BD:187:GLY:N	1.98	0.61
33:BD:241:PRO:O	33:BD:243:GLY:N	2.34	0.61
38:BI:133:HIS:CB	38:BI:134:PRO:CD	2.77	0.61
40:BO:78:ARG:HG2	45:BT:73:GLU:HG3	1.83	0.61
45:BT:32:TYR:CB	45:BT:81:PRO:HB2	2.31	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BX:53:LYS:NZ	49:BX:55:ASN:HD21	1.99	0.61
50:BY:96:ILE:CD1	50:BY:99:CYS:SG	2.89	0.61
51:BZ:151:HIS:CB	51:BZ:170:THR:HA	2.26	0.61
1:CA:427:U:OP1	4:CD:13:ARG:NH2	2.32	0.61
1:CA:864:A:H8	1:CA:864:A:O5'	1.84	0.61
4:CD:108:LEU:O	4:CD:110:PHE:N	2.32	0.61
11:CK:48:ILE:HG23	11:CK:63:LEU:HD22	1.81	0.61
16:CP:8:ARG:O	16:CP:9:PHE:CD2	2.54	0.61
20:CT:51:GLU:O	20:CT:55:ILE:HG12	2.01	0.61
31:DA:639:U:H2'	31:DA:640:C:C6	2.36	0.61
31:DA:795:C:H2'	31:DA:796:C:H6	1.65	0.61
31:DA:993:G:H1'	47:DV:91:TYR:CD1	2.36	0.61
31:DA:995:C:N3	39:DN:4:TYR:CE1	2.68	0.61
31:DA:1312:U:C2	31:DA:1603:A:C2	2.89	0.61
31:DA:1563:G:H2'	31:DA:1564:C:H6	1.66	0.61
31:DA:1945:G:O2'	31:DA:1946:U:H5'	2.00	0.61
31:DA:2315:G:C6	31:DA:2316:C:N4	2.69	0.61
31:DA:2343:C:O3'	31:DA:2373:G:H4'	2.01	0.61
36:DG:117:PHE:CE1	36:DG:120:LEU:HD23	2.35	0.61
36:DG:173:LEU:HB3	36:DG:178:PHE:CG	2.36	0.61
37:DH:89:ILE:CD1	37:DH:89:ILE:N	2.64	0.61
39:DN:20:GLY:O	39:DN:61:ARG:HG3	2.00	0.61
42:DQ:63:LYS:HG2	42:DQ:65:PHE:CE2	2.35	0.61
1:AA:9:G:O2'	1:AA:10:A:H5'	2.01	0.60
1:AA:32:A:H2'	1:AA:33:A:C8	2.35	0.60
1:AA:106:C:O2'	1:AA:379:C:H5''	2.01	0.60
1:AA:276:G:C5'	17:AQ:15:MET:HE1	2.30	0.60
1:AA:1071:C:O2'	1:AA:1072:G:H5'	2.01	0.60
2:AB:163:PHE:CA	2:AB:185:ILE:HG13	2.31	0.60
4:AD:11:LEU:HD13	4:AD:66:ARG:HD3	1.82	0.60
4:AD:119:GLN:O	4:AD:123:HIS:CD2	2.54	0.60
4:AD:148:VAL:CG1	4:AD:149:ALA:H	2.14	0.60
9:AI:114:TYR:HE1	10:AJ:60:ARG:O	1.84	0.60
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.31	0.60
23:B1:17:SER:O	23:B1:44:PRO:CD	2.45	0.60
31:BA:663:G:H2'	31:BA:664:C:C6	2.36	0.60
31:BA:828:U:H4'	31:BA:831:G:N1	2.16	0.60
31:BA:867:C:C5	31:BA:868:U:C5	2.88	0.60
31:BA:1833:U:H2'	31:BA:1834:U:C6	2.33	0.60
31:BA:1921:G:H2'	31:BA:1922:G:H8	1.66	0.60
31:BA:2376:A:C2	44:BS:94:TYR:CG	2.89	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2406:U:O4	41:BP:70:GLN:HB3	2.01	0.60
32:BB:79:C:H2'	32:BB:80:U:O4'	2.01	0.60
33:BD:35:LYS:HZ1	33:BD:65:ILE:HA	1.65	0.60
41:BP:36:LYS:O	41:BP:38:GLN:HG2	2.01	0.60
41:BP:98:GLU:HG3	41:BP:99:LEU:N	2.16	0.60
44:BS:46:VAL:CG1	44:BS:47:THR:N	2.64	0.60
51:BZ:63:ASP:O	51:BZ:65:GLN:N	2.34	0.60
1:CA:438:G:H4'	4:CD:123:HIS:CE1	2.36	0.60
1:CA:818:G:HO2'	1:CA:819:A:H5''	1.66	0.60
1:CA:1245:A:H2'	1:CA:1246:C:C6	2.36	0.60
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.16	0.60
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.36	0.60
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.01	0.60
6:CF:2:ARG:HB2	6:CF:4:TYR:CE2	2.36	0.60
28:D6:35:GLU:HG3	28:D6:35:GLU:O	2.01	0.60
31:DA:197:A:H5'	31:DA:197:A:C8	2.35	0.60
31:DA:212:G:C2'	31:DA:213:A:H5'	2.31	0.60
31:DA:419:C:H2'	31:DA:420:C:O4'	2.00	0.60
31:DA:1190:G:O5'	41:DP:35:HIS:HA	2.01	0.60
31:DA:1252:G:C2	31:DA:1253:A:C2	2.89	0.60
33:DD:28:GLU:HB2	33:DD:29:PRO:CD	2.31	0.60
36:DG:29:TRP:C	36:DG:31:VAL:N	2.53	0.60
42:DQ:75:THR:HG22	42:DQ:88:GLY:HA3	1.82	0.60
50:DY:46:LYS:C	50:DY:47:LYS:NZ	2.54	0.60
1:AA:278:G:O4'	1:AA:282:A:H1'	2.01	0.60
1:AA:433:C:H2'	1:AA:434:U:C6	2.36	0.60
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.16	0.60
3:AC:123:GLN:HB3	3:AC:128:PHE:HB2	1.84	0.60
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.59	0.60
7:AG:37:ASN:HD21	9:AI:40:LEU:HD22	1.66	0.60
16:AP:8:ARG:O	16:AP:9:PHE:CD2	2.54	0.60
23:B1:87:PRO:CG	23:B1:88:LYS:H	2.14	0.60
24:B2:57:ILE:HD11	24:B2:59:ARG:HD2	1.84	0.60
29:B7:48:LYS:HD3	29:B7:48:LYS:N	2.16	0.60
31:BA:471:A:C2'	31:BA:472:A:O5'	2.49	0.60
31:BA:1580:A:OP2	31:BA:1580:A:C8	2.51	0.60
31:BA:1694:C:H2'	31:BA:1694:C:O2	2.01	0.60
31:BA:1812:A:O2'	33:BD:45:ASN:HB2	2.01	0.60
31:BA:2659:G:C1'	31:BA:2663:G:H22	2.14	0.60
33:BD:164:GLN:HB3	33:BD:166:GLN:HE22	1.66	0.60
38:BI:93:THR:OG1	38:BI:94:ALA:N	2.35	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:29:LEU:HB3	43:BR:75:LEU:HD11	1.83	0.60
47:BV:18:LEU:O	47:BV:97:LYS:HD2	2.01	0.60
47:BV:43:GLU:HA	47:BV:47:VAL:O	2.01	0.60
48:BW:86:LEU:C	48:BW:86:LEU:HD12	2.22	0.60
49:BX:36:LYS:HZ2	49:BX:39:ILE:HA	1.65	0.60
1:CA:139:G:C2	1:CA:140:A:N7	2.69	0.60
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.36	0.60
1:CA:350:G:O2'	1:CA:351:G:H5'	2.01	0.60
1:CA:687:A:C2	1:CA:704:A:C6	2.88	0.60
1:CA:976:G:P	14:CN:32:SER:H	2.24	0.60
1:CA:1337:G:H5''	1:CA:1338:G:OP1	2.01	0.60
4:CD:173:TRP:CZ3	4:CD:193:ASP:HB3	2.36	0.60
5:CE:136:MET:HB3	5:CE:140:ARG:HH22	1.66	0.60
7:CG:23:VAL:HG13	7:CG:43:PHE:CZ	2.36	0.60
20:CT:43:LEU:HD12	20:CT:55:ILE:HG13	1.83	0.60
22:D0:43:THR:H	31:DA:2331:G:H4'	1.65	0.60
27:D5:2:ALA:N	31:DA:747:U:N3	2.49	0.60
31:DA:142:A:H5''	31:DA:142(A):C:C5	2.36	0.60
31:DA:176:G:O2'	31:DA:177:G:H5'	2.01	0.60
31:DA:607:U:N3	31:DA:621:A:C2	2.61	0.60
31:DA:1040:C:N4	31:DA:1116:C:N4	2.46	0.60
31:DA:1047:G:H2'	31:DA:1110:G:C2	2.36	0.60
31:DA:2228:G:C6	31:DA:2229:C:C4	2.89	0.60
31:DA:2517:C:C6	31:DA:2542:A:N1	2.69	0.60
31:DA:2580:U:H4'	34:DE:130:GLY:CA	2.32	0.60
31:DA:2821:A:H2'	31:DA:2822:G:O4'	2.00	0.60
37:DH:41:MET:CG	37:DH:55:PRO:HD3	2.31	0.60
41:DP:48:PRO:O	41:DP:51:PHE:N	2.35	0.60
44:DS:90:GLY:C	44:DS:92:TYR:H	2.04	0.60
51:DZ:128:VAL:CG2	51:DZ:161:VAL:HG22	2.31	0.60
51:DZ:156:LYS:O	51:DZ:158:PRO:HD3	2.01	0.60
1:AA:84:U:H5	1:AA:88:A:C4	2.19	0.60
1:AA:441:A:H3'	1:AA:442:C:C6	2.36	0.60
1:AA:520:A:N1	1:AA:536:C:H1'	2.16	0.60
1:AA:938:A:N6	1:AA:939:G:C6	2.70	0.60
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.36	0.60
11:AK:52:GLY:N	11:AK:55:LYS:HE2	2.16	0.60
18:AR:53:ARG:HH21	18:AR:60:ALA:CA	2.14	0.60
20:AT:51:GLU:O	20:AT:55:ILE:HG12	2.00	0.60
24:B2:48:HIS:O	24:B2:48:HIS:CD2	2.54	0.60
27:B5:51:TYR:HB3	27:B5:52:TYR:CD2	2.36	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:14:A:C6	31:BA:526:A:C2	2.89	0.60
31:BA:356:G:H2'	31:BA:356:G:N3	2.15	0.60
31:BA:532:A:H2'	31:BA:532:A:N3	2.15	0.60
31:BA:2280:G:C2'	31:BA:2281:C:H5'	2.31	0.60
33:BD:83:GLU:O	33:BD:92:ILE:HD12	2.02	0.60
33:BD:233:HIS:CD2	33:BD:233:HIS:N	2.66	0.60
34:BE:11:MET:HE3	34:BE:186:GLY:HA2	1.83	0.60
35:BF:41:LEU:HD23	35:BF:41:LEU:N	2.16	0.60
37:BH:126:PRO:HG2	37:BH:130:ARG:HB3	1.83	0.60
38:BI:101:LEU:HD23	38:BI:109:ILE:HG12	1.82	0.60
39:BN:42:TRP:CB	46:BU:64:ARG:NH1	2.63	0.60
39:BN:63:THR:O	39:BN:64:GLY:O	2.18	0.60
41:BP:41:ARG:HA	41:BP:41:ARG:CZ	2.30	0.60
48:BW:5:ALA:HB2	48:BW:54:ALA:HB2	1.83	0.60
49:BX:57:LEU:N	49:BX:57:LEU:CD1	2.64	0.60
50:BY:8:LYS:HB2	50:BY:28:LYS:HZ3	1.63	0.60
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.31	0.60
1:CA:853:G:H2'	1:CA:854:G:C8	2.36	0.60
4:CD:18:LYS:HE3	4:CD:31:CYS:CB	2.31	0.60
5:CE:136:MET:HB3	5:CE:140:ARG:NH2	2.17	0.60
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.16	0.60
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.30	0.60
11:CK:52:GLY:N	11:CK:55:LYS:HE2	2.16	0.60
18:CR:43:PHE:O	18:CR:44:LEU:HD12	2.01	0.60
23:D1:85:LEU:CB	23:D1:87:PRO:HD3	2.31	0.60
23:D1:87:PRO:CG	23:D1:88:LYS:H	2.14	0.60
31:DA:36:G:C5	31:DA:37:C:C5	2.89	0.60
31:DA:174:C:H3'	31:DA:175:G:H5''	1.84	0.60
31:DA:624:C:O2'	31:DA:657:U:H5'	2.01	0.60
31:DA:954:G:C5	31:DA:955:C:C5	2.89	0.60
31:DA:1042:G:H2'	31:DA:1042:G:N3	2.16	0.60
31:DA:1181:C:C2'	31:DA:1182:A:H5'	2.31	0.60
31:DA:1558:A:H3'	31:DA:1558:A:OP2	2.01	0.60
31:DA:1657:C:H2'	31:DA:1658:C:C6	2.36	0.60
31:DA:2810:A:H2'	34:DE:61:ARG:NH2	2.15	0.60
33:DD:175:LEU:HD12	33:DD:185:VAL:HG21	1.83	0.60
35:DF:101:LEU:CD1	35:DF:102:PRO:HD2	2.20	0.60
39:DN:131:GLN:NE2	39:DN:135:PRO:HD3	2.17	0.60
42:DQ:141:GLN:NE2	51:DZ:72:ARG:HG2	2.17	0.60
44:DS:52:SER:CB	44:DS:55:ALA:HB3	2.31	0.60
45:DT:106:SER:O	45:DT:107:ASP:OD1	2.19	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:97:ARG:HH21	50:DY:98:VAL:HB	1.67	0.60
1:AA:34:C:H2'	1:AA:35:G:C8	2.37	0.60
1:AA:434:U:H2'	1:AA:435:C:C6	2.36	0.60
1:AA:980:C:H3'	1:AA:981:U:H6	1.66	0.60
2:AB:91:PRO:N	2:AB:154:LEU:HD12	2.17	0.60
9:AI:10:ARG:HD3	9:AI:75:ASP:HB3	1.84	0.60
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.15	0.60
13:AM:4:ILE:H	13:AM:9:ILE:HG13	1.66	0.60
25:B3:52:HIS:CD2	25:B3:52:HIS:N	2.68	0.60
31:BA:14:A:N6	31:BA:15:G:C2	2.69	0.60
31:BA:174:C:H3'	31:BA:175:G:H5''	1.82	0.60
31:BA:228:A:H2'	31:BA:230:U:O4'	2.01	0.60
31:BA:559:G:H22	46:BU:49:HIS:CD2	2.19	0.60
31:BA:1114:G:C2'	31:BA:1115:G:H5'	2.31	0.60
31:BA:1190:G:O5'	41:BP:35:HIS:HA	2.01	0.60
31:BA:1836:C:O2'	31:BA:1837:C:H5'	2.01	0.60
31:BA:1899:G:H22	31:BA:1902:C:H41	0.70	0.60
32:BB:50:G:OP1	44:BS:63:THR:HG23	2.02	0.60
34:BE:75:VAL:C	34:BE:77:ILE:N	2.53	0.60
35:BF:65:TRP:HZ3	35:BF:75:HIS:CD2	2.14	0.60
37:BH:158:HIS:CE1	37:BH:168:PRO:CG	2.85	0.60
42:BQ:75:THR:HA	42:BQ:88:GLY:CA	2.29	0.60
44:BS:89:ARG:HE	44:BS:89:ARG:CA	2.13	0.60
45:BT:30:VAL:HG23	45:BT:30:VAL:O	2.02	0.60
47:BV:66:ARG:CD	47:BV:67:GLY:H	2.13	0.60
49:BX:18:TYR:HA	49:BX:21:PHE:CD1	2.36	0.60
50:BY:97:ARG:HH21	50:BY:98:VAL:HB	1.64	0.60
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.37	0.60
1:CA:923:A:H2	1:CA:924:C:C2	2.20	0.60
1:CA:1426:C:O2'	1:CA:1427:U:H5'	2.01	0.60
17:CQ:10:VAL:HG13	17:CQ:19:VAL:HB	1.83	0.60
18:CR:52:PRO:O	18:CR:56:THR:HG23	2.01	0.60
20:CT:12:ALA:O	20:CT:15:ARG:HB2	2.02	0.60
31:DA:309:G:C4'	50:DY:18:GLY:HA3	2.32	0.60
31:DA:585:G:H2'	31:DA:1251:C:H42	1.65	0.60
31:DA:863:A:O2'	31:DA:864:G:H5'	2.02	0.60
31:DA:917:A:N1	32:DB:80:U:H4'	2.16	0.60
31:DA:1204:A:N1	31:DA:1241:A:H2	2.00	0.60
31:DA:1833:U:O2'	31:DA:1969:A:N1	2.25	0.60
31:DA:2659:G:H1'	31:DA:2663:G:H22	1.65	0.60
33:DD:35:LYS:HE3	33:DD:65:ILE:N	2.17	0.60

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:255:LYS:NZ	33:DD:255:LYS:H	2.00	0.60
47:DV:19:LYS:CE	47:DV:20:LEU:H	2.14	0.60
1:AA:1368:G:H2'	1:AA:1369:C:H5'	1.82	0.60
4:AD:3:ARG:HD3	4:AD:5:ILE:HG13	1.84	0.60
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.00	0.60
6:AF:94:GLN:O	6:AF:96:PRO:HD3	2.01	0.60
23:B1:94:LEU:HD22	23:B1:95:LEU:O	2.00	0.60
27:B5:4:HIS:O	27:B5:5:PRO:C	2.36	0.60
31:BA:271(U):G:C2'	31:BA:271(V):G:H5'	2.30	0.60
31:BA:557:U:H2'	31:BA:558:G:H8	1.66	0.60
31:BA:1410:G:H2'	31:BA:1411:C:C6	2.37	0.60
31:BA:1510:G:H2'	31:BA:1511:C:C6	2.36	0.60
31:BA:1717:G:H2'	31:BA:1717:G:N3	2.16	0.60
32:BB:8:U:O2'	44:BS:40:ILE:HD13	2.01	0.60
33:BD:35:LYS:HG2	33:BD:64:ILE:HG23	1.84	0.60
33:BD:186:HIS:CD2	33:BD:187:GLY:N	2.70	0.60
43:BR:24:GLN:HE22	43:BR:36:THR:HG21	1.66	0.60
43:BR:103:ARG:HD3	43:BR:108:GLY:O	2.00	0.60
47:BV:24:LYS:HB2	47:BV:92:THR:HG21	1.82	0.60
1:CA:444:C:C2	1:CA:445:G:C8	2.90	0.60
1:CA:514:C:H2'	1:CA:515:G:C8	2.36	0.60
1:CA:922:G:H4'	5:CE:20:GLN:N	2.16	0.60
1:CA:939:G:H1'	1:CA:1375:A:C2	2.36	0.60
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.83	0.60
1:CA:1090:U:C2	1:CA:1091:U:C5	2.90	0.60
1:CA:1199:U:H4'	10:CJ:54:PHE:CE1	2.37	0.60
1:CA:1381:U:H2'	1:CA:1382:C:H5'	1.83	0.60
24:D2:47:ASN:HA	24:D2:51:ARG:HB3	1.84	0.60
31:DA:214:G:H1'	31:DA:216:A:O2'	2.01	0.60
31:DA:491:G:H2'	31:DA:492:A:H8	1.66	0.60
31:DA:607:U:OP1	35:DF:102:PRO:HA	2.01	0.60
31:DA:1020:A:H4'	31:DA:1021:A:O5'	2.02	0.60
31:DA:1218:C:H2'	31:DA:1219:G:H5'	1.82	0.60
31:DA:1241:A:H2'	31:DA:1242:A:O5'	2.01	0.60
31:DA:1496:A:H5''	31:DA:1497:U:OP2	2.02	0.60
31:DA:1549:C:O2'	31:DA:1550:C:H5'	2.01	0.60
31:DA:1667:G:H1'	31:DA:1991:U:O4	2.01	0.60
31:DA:1887:C:C2'	31:DA:1888:G:H5'	2.30	0.60
35:DF:9:ILE:HG23	35:DF:13:SER:O	2.01	0.60
39:DN:42:TRP:CB	46:DU:64:ARG:NH1	2.61	0.60
41:DP:115:LEU:HA	41:DP:134:ALA:HB2	1.81	0.60

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:4:ILE:HD12	47:DV:40:LEU:HG	1.84	0.60
51:DZ:71:VAL:HG22	51:DZ:88:PHE:CE2	2.36	0.60
51:DZ:103:ARG:HD3	51:DZ:136:PHE:CE1	2.37	0.60
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.36	0.60
1:AA:1271:G:H5'	1:AA:1314:C:H5'	1.82	0.60
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.83	0.60
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.01	0.60
7:AG:79:ARG:HG2	7:AG:84:ASN:ND2	2.17	0.60
23:B1:19:GLN:CG	23:B1:44:PRO:HG3	2.29	0.60
23:B1:54:ALA:O	23:B1:55:GLY:C	2.39	0.60
24:B2:15:LYS:O	24:B2:16:LEU:HB3	1.99	0.60
24:B2:26:ARG:CG	49:BX:5:TYR:CB	2.80	0.60
27:B5:4:HIS:CD2	31:BA:2056:G:H1	2.19	0.60
28:B6:25:LYS:HE2	28:B6:27:LYS:NZ	2.15	0.60
31:BA:1639:U:H4'	31:BA:2699:C:H4'	1.82	0.60
31:BA:1719:G:H2'	31:BA:1720:U:C5'	2.30	0.60
31:BA:1744:C:C2'	31:BA:1745:C:H5'	2.31	0.60
31:BA:2306:C:C5	31:BA:2307:G:H1'	2.37	0.60
31:BA:2753:A:H2	31:BA:2754:U:C2	2.20	0.60
32:BB:27:C:O2	32:BB:28:C:C6	2.54	0.60
34:BE:119:ARG:HA	34:BE:160:TYR:CD1	2.36	0.60
39:BN:28:THR:HA	39:BN:106:MET:CE	2.31	0.60
39:BN:78:TYR:N	39:BN:79:PRO:CD	2.65	0.60
40:BO:35:VAL:HA	40:BO:62:VAL:HG12	1.83	0.60
51:BZ:103:ARG:HD3	51:BZ:136:PHE:CE1	2.37	0.60
1:CA:356:A:C2	1:CA:357:G:H1'	2.37	0.60
1:CA:741:G:H2'	1:CA:742:G:O4'	2.01	0.60
1:CA:1071:C:O2'	1:CA:1072:G:H5'	2.01	0.60
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.66	0.60
2:CB:14:GLY:O	2:CB:15:VAL:HG13	2.02	0.60
2:CB:89:GLY:O	2:CB:90:MET:HE2	2.01	0.60
2:CB:187:LEU:HD13	2:CB:187:LEU:O	2.01	0.60
9:CI:116:LYS:O	9:CI:118:LYS:N	2.34	0.60
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.66	0.60
31:DA:154:G:N1	31:DA:172:C:N4	2.49	0.60
31:DA:301:G:H1'	31:DA:302:C:C6	2.36	0.60
31:DA:356:G:H2'	31:DA:356:G:N3	2.15	0.60
31:DA:918:A:H5''	32:DB:98:G:O2'	2.02	0.60
31:DA:921:G:H2'	31:DA:922:U:C6	2.37	0.60
31:DA:958:U:H5''	42:DQ:14:ARG:CD	2.31	0.60
31:DA:1773:A:H2'	31:DA:1774:C:H5'	1.83	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1937:A:C8	31:DA:1939:U:H2'	2.37	0.60
31:DA:2265:U:H4'	42:DQ:13:GLN:NE2	2.13	0.60
31:DA:2752:C:N3	31:DA:2753:A:N7	2.49	0.60
34:DE:197:ILE:HD11	34:DE:199:ARG:NH2	2.16	0.60
35:DF:84:VAL:O	35:DF:85:GLY:C	2.40	0.60
36:DG:128:ARG:O	36:DG:129:GLY:C	2.39	0.60
41:DP:107:LYS:O	41:DP:109:GLY:N	2.34	0.60
43:DR:51:LEU:HD22	43:DR:70:LEU:HD21	1.82	0.60
3:AC:73:PRO:HA	3:AC:76:VAL:CG1	2.31	0.60
6:AF:19:LEU:HD21	6:AF:59:TYR:CD2	2.37	0.60
10:AJ:63:PHE:HA	14:AN:59:ALA:H	1.67	0.60
24:B2:26:ARG:HA	24:B2:29:LYS:HE3	1.82	0.60
31:BA:370:G:H3'	31:BA:423:A:C5	2.37	0.60
31:BA:527:C:N4	31:BA:2779:U:OP2	2.35	0.60
31:BA:574:C:N3	34:BE:145:LYS:CE	2.64	0.60
31:BA:634:C:H2'	31:BA:635:C:C6	2.37	0.60
31:BA:760:G:H2'	31:BA:761:A:O4'	2.02	0.60
31:BA:858:U:O2	31:BA:2268:A:H2'	2.01	0.60
31:BA:912:C:C2	31:BA:913:U:C5	2.89	0.60
31:BA:958:U:H5''	42:BQ:14:ARG:CD	2.32	0.60
31:BA:1191:G:OP1	41:BP:35:HIS:ND1	2.35	0.60
31:BA:1276:A:O2'	43:BR:16:HIS:HE1	1.84	0.60
31:BA:1338:G:O2'	31:BA:1339:G:H5'	2.02	0.60
31:BA:1488:G:C2	31:BA:1489:U:O2	2.55	0.60
31:BA:1683:C:H2'	31:BA:1684:C:H6	1.67	0.60
31:BA:1803:A:O3'	33:BD:259:THR:CG2	2.50	0.60
31:BA:1973:G:C4	31:BA:1974:C:C5	2.90	0.60
31:BA:2199:A:H2'	31:BA:2199:A:N3	2.17	0.60
31:BA:2312:U:H2'	31:BA:2313:C:H5'	1.84	0.60
31:BA:2826:A:C5	31:BA:2827:C:C5	2.90	0.60
32:BB:31:C:H4'	36:BG:29:TRP:CH2	2.37	0.60
45:BT:74:ARG:HB3	45:BT:76:PHE:CE1	2.36	0.60
50:BY:27:VAL:O	50:BY:29:GLU:OE1	2.19	0.60
51:BZ:5:LEU:CD1	51:BZ:43:GLU:HB3	2.31	0.60
1:CA:148:G:O2'	1:CA:149:A:H5'	2.01	0.60
1:CA:437:U:O2'	1:CA:438:G:H5'	2.02	0.60
1:CA:509:A:O2'	1:CA:510:A:O5'	2.19	0.60
1:CA:724:G:N3	1:CA:725:G:C8	2.69	0.60
3:CC:11:ARG:O	3:CC:14:ILE:O	2.19	0.60
4:CD:3:ARG:HD3	4:CD:5:ILE:HG13	1.84	0.60
4:CD:138:TYR:CD2	4:CD:138:TYR:C	2.74	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.84	0.60
31:DA:271(D):G:H2'	31:DA:271(E):U:O4'	2.01	0.60
31:DA:271(M):G:H2'	31:DA:271(N):U:C5'	2.31	0.60
31:DA:398:G:H5''	31:DA:2090:G:O4'	2.00	0.60
31:DA:760:G:H2'	31:DA:761:A:O4'	2.00	0.60
31:DA:993:G:H21	47:DV:91:TYR:HH	1.47	0.60
31:DA:1751:C:O2'	31:DA:1752:C:H5'	2.01	0.60
31:DA:1952:A:C2	40:DO:22:ILE:HG13	2.36	0.60
31:DA:2019:A:O4'	46:DU:34:LYS:HD2	2.01	0.60
31:DA:2065:C:H2'	31:DA:2066:C:C6	2.35	0.60
31:DA:2801(A):A:C4'	31:DA:2802:G:H5'	2.32	0.60
31:DA:2872:G:O2'	31:DA:2873:A:H5'	2.02	0.60
32:DB:82:G:C2'	32:DB:83:G:H5'	2.32	0.60
41:DP:80:TYR:HA	41:DP:111:ARG:O	2.02	0.60
45:DT:32:TYR:CB	45:DT:81:PRO:HB2	2.32	0.60
1:AA:52:G:H2'	1:AA:53:A:C8	2.36	0.60
1:AA:270:A:C5	1:AA:271:C:C4	2.89	0.60
1:AA:355:C:C2'	1:AA:356:A:H5'	2.31	0.60
1:AA:477:A:O2'	1:AA:479:C:H5'	2.02	0.60
1:AA:559:A:H2'	1:AA:559:A:N3	2.16	0.60
1:AA:863:U:H2'	1:AA:865:A:OP2	2.01	0.60
7:AG:85:TYR:CD1	7:AG:154:TYR:HE1	2.18	0.60
24:B2:25:VAL:HG22	24:B2:26:ARG:HH11	1.67	0.60
31:BA:1386:C:H2'	31:BA:1387:C:H6	1.67	0.60
31:BA:1652:A:C2'	31:BA:1653:G:H5'	2.32	0.60
31:BA:1945:G:O2'	31:BA:1946:U:H5'	2.01	0.60
31:BA:1987:G:C4	31:BA:1988:C:C5	2.90	0.60
31:BA:2025:C:H2'	31:BA:2026:C:C6	2.37	0.60
31:BA:2388:A:C2'	31:BA:2389:G:H5'	2.31	0.60
31:BA:2399:G:C4	31:BA:2400:G:C8	2.90	0.60
31:BA:2552:U:C2	31:BA:2554:U:H5'	2.37	0.60
33:BD:172:TYR:HD1	33:BD:185:VAL:C	2.04	0.60
36:BG:31:VAL:HB	36:BG:33:ARG:HG2	1.83	0.60
43:BR:38:VAL:HB	43:BR:39:PRO:HD3	1.84	0.60
48:BW:73:ALA:HB3	48:BW:106:ILE:HD11	1.82	0.60
51:BZ:150:LEU:N	51:BZ:150:LEU:HD13	2.17	0.60
1:CA:222:U:H2'	1:CA:223:U:C6	2.37	0.60
1:CA:661:G:C2	1:CA:662:G:C8	2.89	0.60
2:CB:22:LYS:HA	2:CB:22:LYS:NZ	2.16	0.60
2:CB:91:PRO:N	2:CB:154:LEU:HD12	2.17	0.60
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.84	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.02	0.60
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.01	0.60
23:D1:85:LEU:C	23:D1:87:PRO:HD3	2.22	0.60
27:D5:10:LYS:HE3	31:DA:1262:A:N3	2.16	0.60
31:DA:603:A:C4'	31:DA:604:G:O5'	2.49	0.60
31:DA:643:A:O2'	31:DA:644:A:H5'	2.00	0.60
31:DA:839:U:H2'	31:DA:840:C:C6	2.37	0.60
31:DA:1519:G:H5'	31:DA:1520:G:OP2	2.01	0.60
31:DA:2404:C:H2'	31:DA:2405:G:H5'	1.83	0.60
31:DA:2772:C:H2'	31:DA:2773:C:H6	1.67	0.60
32:DB:37:C:O2	32:DB:38:C:O2	2.18	0.60
33:DD:17:THR:HG23	33:DD:205:VAL:N	2.17	0.60
34:DE:119:ARG:HA	34:DE:160:TYR:CD1	2.36	0.60
34:DE:120:TRP:O	34:DE:121:ASN:HB2	2.01	0.60
35:DF:83:PHE:O	35:DF:85:GLY:N	2.35	0.60
38:DI:131:LYS:HG3	38:DI:132:PRO:HA	1.84	0.60
43:DR:5:LYS:HD2	43:DR:5:LYS:H	1.67	0.60
44:DS:76:LYS:O	44:DS:79:ALA:HB3	2.02	0.60
45:DT:88:ILE:HG22	45:DT:89:VAL:H	1.64	0.60
47:DV:43:GLU:HA	47:DV:47:VAL:O	2.02	0.60
1:AA:316:G:OP2	1:AA:351:G:O2'	2.20	0.60
1:AA:358:U:O2'	1:AA:359:U:C5'	2.50	0.60
1:AA:577:G:C8	1:AA:816:A:C6	2.89	0.60
1:AA:618:C:N3	1:AA:622:A:N6	2.50	0.60
1:AA:662:G:O2'	1:AA:663:A:H5'	2.02	0.60
1:AA:818:G:HO2'	1:AA:820:U:H6	1.48	0.60
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.65	0.60
4:AD:173:TRP:CZ3	4:AD:193:ASP:HB3	2.37	0.60
12:AL:87:GLY:H	12:AL:99:HIS:H	1.50	0.60
31:BA:963:U:H1'	31:BA:2250:G:O6	2.02	0.60
31:BA:1047:G:H2'	31:BA:1110:G:C2	2.36	0.60
31:BA:1784:A:H4'	31:BA:1785:A:O5'	2.02	0.60
31:BA:2494:G:C4	31:BA:2495:G:C8	2.89	0.60
33:BD:158:ALA:O	33:BD:159:ALA:CB	2.48	0.60
33:BD:222:ARG:O	33:BD:225:ALA:HB3	2.01	0.60
34:BE:60:ASN:ND2	34:BE:60:ASN:N	2.48	0.60
46:BU:64:ARG:HA	46:BU:64:ARG:NH2	2.16	0.60
47:BV:13:ARG:HH12	47:BV:15:GLU:CG	2.14	0.60
49:BX:3:THR:HA	49:BX:6:ASP:OD2	2.02	0.60
50:BY:46:LYS:O	50:BY:47:LYS:NZ	2.34	0.60
1:CA:52:G:H2'	1:CA:53:A:C8	2.36	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:710:G:H5''	6:CF:54:LYS:NZ	2.17	0.60
1:CA:921:U:C2	1:CA:922:G:N3	2.66	0.60
1:CA:1430:C:H5'	31:DA:1704:G:H5''	1.84	0.60
2:CB:90:MET:C	2:CB:154:LEU:HD12	2.22	0.60
2:CB:187:LEU:HD22	2:CB:201:ILE:O	2.01	0.60
2:CB:204:ASN:HB3	2:CB:210:SER:CB	2.32	0.60
25:D3:46:ASN:ND2	31:DA:850:C:O2'	2.34	0.60
28:D6:29:ASN:O	28:D6:30:THR:C	2.40	0.60
30:D8:61:LEU:HD13	31:DA:593:G:C4'	2.31	0.60
31:DA:532:A:N3	31:DA:532:A:H2'	2.17	0.60
31:DA:1434:A:C2'	31:DA:1435:G:H5'	2.32	0.60
31:DA:1502:C:O2	31:DA:1502:C:C2'	2.50	0.60
31:DA:1693:U:H4'	31:DA:1694:C:OP2	2.01	0.60
31:DA:1719:G:O2'	31:DA:1720:U:H5'	2.01	0.60
31:DA:1786:A:H2	31:DA:2606:C:H1'	1.66	0.60
31:DA:1790:C:O2'	33:DD:209:ALA:HB2	2.02	0.60
31:DA:1861:G:C2	31:DA:1862:G:C8	2.90	0.60
31:DA:2058:A:N1	55:DA:3320:TEL:H572	2.16	0.60
31:DA:2596:U:H2'	31:DA:2597:G:H5'	1.83	0.60
32:DB:16:G:C2	32:DB:17:C:C6	2.90	0.60
35:DF:102:PRO:HB2	35:DF:105:VAL:HG23	1.84	0.60
36:DG:66:GLN:OE1	36:DG:98:ARG:HG3	2.01	0.60
38:DI:31:LEU:HD13	38:DI:37:VAL:HA	1.83	0.60
43:DR:116:LEU:O	43:DR:117:VAL:CB	2.49	0.60
44:DS:83:LYS:HG2	44:DS:105:ALA:HB2	1.83	0.60
47:DV:61:VAL:HG21	47:DV:100:ARG:HE	1.66	0.60
48:DW:74:ALA:O	48:DW:75:TYR:HB3	2.02	0.60
49:DX:72:LYS:CG	49:DX:73:ARG:N	2.62	0.60
51:DZ:152:ALA:HB1	51:DZ:167:PRO:HB2	1.82	0.60
1:AA:323:U:OP1	20:AT:26:ASN:ND2	2.35	0.60
1:AA:343:U:C2	1:AA:347:G:C2	2.89	0.60
1:AA:552:U:C5'	12:AL:86:ARG:HD2	2.32	0.60
1:AA:1064:G:C8	1:AA:1066:C:C2	2.90	0.60
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.31	0.60
10:AJ:51:ARG:HG3	10:AJ:61:GLU:N	2.16	0.60
19:AS:51:VAL:HG21	19:AS:71:LEU:HB3	1.82	0.60
22:B0:20:ARG:NH1	31:BA:2357:U:OP1	2.34	0.60
25:B3:46:ASN:ND2	31:BA:850:C:O2'	2.35	0.60
29:B7:15:THR:HG22	29:B7:16:HIS:CG	2.36	0.60
29:B7:16:HIS:HB2	29:B7:44:PRO:HG2	1.84	0.60
31:BA:910:A:N1	31:BA:2277:G:H1'	2.17	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1000:A:C6	31:BA:1001:A:C6	2.90	0.60
31:BA:1196:C:O4'	31:BA:1226:A:C2	2.55	0.60
31:BA:1506:C:H2'	31:BA:1506:C:O2	2.00	0.60
31:BA:2036:C:H5'	31:BA:2036:C:H6	1.67	0.60
31:BA:2303:G:H8	31:BA:2303:G:O5'	1.85	0.60
31:BA:2835:A:C5	31:BA:2879:C:C5	2.90	0.60
33:BD:186:HIS:HD2	33:BD:188:GLU:H	1.50	0.60
35:BF:32:LEU:C	35:BF:32:LEU:HD23	2.22	0.60
37:BH:85:LYS:NZ	37:BH:133:VAL:HG21	2.17	0.60
39:BN:90:MET:O	39:BN:93:THR:O	2.20	0.60
41:BP:131:SER:C	41:BP:133:SER:H	2.05	0.60
42:BQ:20:ALA:O	42:BQ:23:GLY:N	2.35	0.60
46:BU:31:SER:C	46:BU:33:ARG:H	2.05	0.60
47:BV:61:VAL:HG21	47:BV:100:ARG:HE	1.67	0.60
47:BV:66:ARG:HE	47:BV:94:LEU:HG	1.66	0.60
50:BY:45:VAL:HG22	50:BY:62:GLU:HB3	1.82	0.60
1:CA:514:C:H2'	1:CA:515:G:H8	1.65	0.60
1:CA:754:C:H3'	1:CA:754:C:O2	2.00	0.60
1:CA:791:G:C5	1:CA:792:A:N7	2.70	0.60
7:CG:79:ARG:HG2	7:CG:84:ASN:ND2	2.17	0.60
8:CH:10:LEU:N	8:CH:10:LEU:HD23	2.16	0.60
22:D0:40:GLN:HG3	22:D0:42:GLY:O	2.01	0.60
31:DA:272(E):G:C6	31:DA:272(F):C:C4	2.89	0.60
31:DA:921:G:H4'	31:DA:2269:A:C5	2.37	0.60
31:DA:1115:G:C4	31:DA:1116:C:C5	2.90	0.60
31:DA:1337:G:H2'	31:DA:1338:G:H8	1.65	0.60
31:DA:1508:A:OP1	31:DA:1509(A):A:H2	1.84	0.60
31:DA:1683:C:H2'	31:DA:1684:C:C6	2.37	0.60
31:DA:1744:C:H2'	31:DA:1745:C:H5'	1.83	0.60
31:DA:2008:C:H2'	31:DA:2009:G:H8	1.66	0.60
31:DA:2287:A:C2	31:DA:2346:A:H2	2.19	0.60
33:DD:25:THR:O	33:DD:27:THR:HB	2.02	0.60
35:DF:155:LEU:HD22	35:DF:186:ILE:HA	1.83	0.60
39:DN:24:GLY:H	39:DN:27:ALA:H	1.50	0.60
46:DU:64:ARG:HA	46:DU:64:ARG:NH2	2.15	0.60
46:DU:83:LEU:HG	46:DU:88:ILE:CG1	2.19	0.60
47:DV:15:GLU:HB3	47:DV:16:PRO:HD2	1.84	0.60
47:DV:15:GLU:O	47:DV:98:GLU:CD	2.41	0.60
1:AA:153:C:N4	1:AA:168:G:H1	2.00	0.59
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.36	0.59
1:AA:559:A:H4'	1:AA:560:U:O5'	2.02	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:673:G:C5'	6:AF:87:ARG:HE	2.14	0.59
1:AA:676:A:H2'	1:AA:677:U:C6	2.37	0.59
1:AA:715:A:O2'	1:AA:716:A:H5'	2.02	0.59
1:AA:719:C:C6	1:AA:720:C:C5	2.90	0.59
1:AA:1148:U:H4'	9:AI:14:VAL:HG11	1.84	0.59
1:AA:1392:G:N2	1:AA:1502:A:C8	2.70	0.59
4:AD:138:TYR:HD2	4:AD:138:TYR:C	2.04	0.59
5:AE:76:ILE:HD11	5:AE:142:LEU:HD11	1.84	0.59
5:AE:98:THR:HG22	5:AE:99:GLY:N	2.17	0.59
22:B0:40:GLN:HE21	22:B0:43:THR:HA	1.67	0.59
31:BA:17:G:H4'	46:BU:25:TRP:CH2	2.37	0.59
31:BA:2302:G:O6	31:BA:2315:G:C6	2.54	0.59
31:BA:2596:U:H2'	31:BA:2597:G:H5'	1.82	0.59
34:BE:35:GLN:NE2	34:BE:37:ARG:HH21	1.99	0.59
35:BF:66:PRO:O	35:BF:67:GLN:CB	2.45	0.59
35:BF:154:VAL:HB	35:BF:173:VAL:HG22	1.84	0.59
39:BN:78:TYR:H	39:BN:79:PRO:CD	2.14	0.59
42:BQ:77:LYS:HE3	42:BQ:82:ARG:HA	1.84	0.59
43:BR:72:ASP:HB3	43:BR:75:LEU:CB	2.31	0.59
44:BS:38:GLN:HG2	44:BS:47:THR:HG21	1.84	0.59
48:BW:56:ALA:O	48:BW:57:ASN:C	2.41	0.59
1:CA:62:U:O2'	1:CA:379:C:H1'	2.02	0.59
1:CA:353:A:H8	1:CA:353:A:H5'	1.66	0.59
1:CA:614:A:C6	1:CA:627:G:N1	2.70	0.59
1:CA:775:G:O2'	1:CA:776:G:H5'	2.02	0.59
1:CA:946:A:C2	1:CA:1236:A:C2	2.90	0.59
1:CA:1084:G:C5	1:CA:1085:U:C4	2.90	0.59
12:CL:91:LYS:O	12:CL:91:LYS:HG3	2.02	0.59
14:CN:51:GLY:C	14:CN:53:LEU:H	2.05	0.59
16:CP:64:ALA:O	16:CP:65:GLN:C	2.38	0.59
23:D1:19:GLN:NE2	31:DA:379:G:H21	1.92	0.59
23:D1:37:ILE:HG21	31:DA:2080:G:P	2.42	0.59
25:D3:10:LYS:HB3	25:D3:53:LEU:HA	1.84	0.59
25:D3:52:HIS:ND1	32:DB:83:G:H5''	2.16	0.59
31:DA:494:G:H2'	31:DA:495:G:H8	1.67	0.59
31:DA:528:A:O2'	31:DA:529:A:H5'	2.01	0.59
31:DA:1033:U:H5''	31:DA:1034:G:OP1	2.01	0.59
31:DA:1290:C:H2'	31:DA:1291:C:H6	1.67	0.59
31:DA:1614:A:H2'	31:DA:1615:C:H5'	1.82	0.59
31:DA:1719:G:H2'	31:DA:1720:U:C5'	2.32	0.59
31:DA:2553:G:H5''	31:DA:2554:U:OP2	2.02	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2826:A:C5	31:DA:2827:C:C5	2.90	0.59
41:DP:131:SER:C	41:DP:133:SER:H	2.05	0.59
43:DR:103:ARG:HB3	43:DR:110:PRO:HA	1.84	0.59
1:AA:437:U:H2'	1:AA:438:G:C5'	2.30	0.59
1:AA:519:C:H2'	1:AA:520:A:O5'	2.02	0.59
2:AB:167:PRO:HG3	2:AB:188:ALA:HB2	1.83	0.59
20:AT:66:ALA:O	20:AT:71:THR:HB	2.02	0.59
22:B0:42:GLY:HA2	31:BA:2330:G:H21	1.66	0.59
23:B1:20:ARG:HB2	31:BA:380:U:O3'	2.02	0.59
31:BA:271(Q):G:O2'	31:BA:271(R):G:C8	2.54	0.59
31:BA:779:U:H5''	33:BD:49:ILE:HD11	1.84	0.59
31:BA:1301:A:H2	31:BA:1626:G:N3	2.00	0.59
31:BA:1470:G:H5''	31:BA:1471:A:OP1	2.01	0.59
31:BA:2098:U:H2'	31:BA:2099:U:C6	2.36	0.59
35:BF:124:LEU:O	35:BF:193:VAL:HA	2.02	0.59
39:BN:82:LEU:HD12	39:BN:82:LEU:H	1.66	0.59
41:BP:105:LEU:O	41:BP:106:LEU:CB	2.49	0.59
44:BS:26:LEU:HA	44:BS:39:ILE:HD13	1.84	0.59
46:BU:60:LEU:O	46:BU:64:ARG:HG2	2.01	0.59
46:BU:64:ARG:CZ	46:BU:64:ARG:CA	2.80	0.59
47:BV:21:ARG:HG2	47:BV:93:GLU:OE1	2.01	0.59
47:BV:66:ARG:HE	47:BV:94:LEU:CD1	2.14	0.59
51:BZ:3:TYR:CD2	51:BZ:51:ALA:HB2	2.37	0.59
51:BZ:142:SER:H	51:BZ:144:LEU:HD23	1.67	0.59
51:BZ:152:ALA:HB1	51:BZ:167:PRO:HB2	1.83	0.59
1:CA:245:C:O2	1:CA:283:C:N3	2.34	0.59
1:CA:376:G:H4'	16:CP:5:ARG:HH11	1.67	0.59
1:CA:579:G:H2'	1:CA:580:U:C6	2.37	0.59
1:CA:774:G:N2	1:CA:775:G:H1'	2.17	0.59
3:CC:186:PHE:CE2	3:CC:188:LEU:HD22	2.37	0.59
4:CD:43:HIS:HB3	4:CD:46:LYS:HD2	1.84	0.59
6:CF:69:GLU:CD	6:CF:69:GLU:H	2.04	0.59
7:CG:47:CYS:O	7:CG:50:ILE:HB	2.02	0.59
7:CG:85:TYR:CE1	7:CG:154:TYR:HE1	2.20	0.59
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.17	0.59
31:DA:185:U:H4'	31:DA:218:A:H4'	1.82	0.59
31:DA:384:U:O2'	31:DA:385:C:H5'	2.02	0.59
31:DA:817:C:H2'	31:DA:818:G:H8	1.67	0.59
31:DA:1717:G:H2'	31:DA:1717:G:N3	2.17	0.59
31:DA:1751:C:HO2'	31:DA:2861:G:HO2'	1.32	0.59
31:DA:2183:C:H2'	31:DA:2184:G:C8	2.38	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2303:G:H8	31:DA:2303:G:O5'	1.86	0.59
31:DA:2317:C:C2'	31:DA:2318:G:C5'	2.74	0.59
36:DG:26:GLN:N	36:DG:30:GLU:OE1	2.30	0.59
37:DH:16:SER:HB2	37:DH:27:LYS:HB2	1.84	0.59
37:DH:70:THR:HG22	37:DH:74:ASN:ND2	2.17	0.59
38:DI:133:HIS:CB	38:DI:134:PRO:CD	2.78	0.59
40:DO:22:ILE:HG22	40:DO:40:VAL:HB	1.84	0.59
40:DO:64:ARG:HB3	40:DO:79:PHE:CG	2.37	0.59
44:DS:66:ALA:C	44:DS:69:VAL:HG12	2.23	0.59
51:DZ:142:SER:H	51:DZ:144:LEU:HD23	1.66	0.59
1:AA:184:G:O2'	1:AA:185:A:H5'	2.03	0.59
1:AA:522:C:H41	12:AL:53:ARG:HH22	1.49	0.59
1:AA:687:A:H1'	1:AA:688:G:OP2	2.02	0.59
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.84	0.59
1:AA:1350:A:H8	1:AA:1350:A:O5'	1.85	0.59
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.84	0.59
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.85	0.59
3:AC:101:LEU:HD23	3:AC:102:ASN:O	2.02	0.59
9:AI:55:ALA:HB1	9:AI:59:PHE:HE1	1.68	0.59
31:BA:154:G:H8	31:BA:154:G:O5'	1.85	0.59
31:BA:271(D):G:H2'	31:BA:271(E):U:O4'	2.02	0.59
31:BA:607:U:C2	31:BA:621:A:N1	2.70	0.59
31:BA:696:G:O2'	31:BA:697:C:H5'	2.01	0.59
31:BA:700:G:H1	31:BA:732:C:H42	1.49	0.59
31:BA:1106:A:O2'	31:BA:1107:G:O5'	2.20	0.59
31:BA:1286:A:HO2'	31:BA:1288:U:P	2.13	0.59
31:BA:1494:A:C4'	31:BA:1495:A:OP1	2.48	0.59
31:BA:1694:C:O2'	31:BA:1695:G:C4	2.53	0.59
31:BA:2065:C:H2'	31:BA:2066:C:C6	2.37	0.59
31:BA:2343:C:O3'	31:BA:2373:G:H4'	2.02	0.59
31:BA:2712:U:O2'	31:BA:2712(A):A:P	2.60	0.59
33:BD:94:LEU:HD22	33:BD:95:LEU:N	2.18	0.59
38:BI:51:ILE:O	38:BI:55:ALA:CB	2.50	0.59
39:BN:30:ILE:HG23	39:BN:52:VAL:HG11	1.85	0.59
41:BP:16:ARG:HG2	41:BP:17:LYS:N	2.08	0.59
43:BR:104:ARG:HD3	43:BR:109:ALA:HB3	1.83	0.59
44:BS:26:LEU:HD22	44:BS:87:PHE:CE1	2.37	0.59
50:BY:13:VAL:CG1	50:BY:72:VAL:HB	2.32	0.59
50:BY:20:TYR:CD2	50:BY:41:GLY:HA2	2.36	0.59
1:CA:343:U:C2	1:CA:347:G:C2	2.90	0.59
1:CA:355:C:C2'	1:CA:356:A:H5'	2.31	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:673:G:O3'	6:CF:87:ARG:NH2	2.36	0.59
1:CA:1003:G:C2	1:CA:1004:A:H1'	2.36	0.59
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.68	0.59
8:CH:12:ARG:HH12	8:CH:58:TYR:HE2	1.49	0.59
10:CJ:51:ARG:HG3	10:CJ:61:GLU:N	2.17	0.59
12:CL:90:VAL:O	12:CL:92:ASP:N	2.31	0.59
17:CQ:21:VAL:HG21	17:CQ:59:ILE:HD11	1.83	0.59
23:D1:23:LYS:HA	23:D1:23:LYS:NZ	2.17	0.59
30:D8:32:LEU:O	30:D8:33:ASN:CB	2.50	0.59
30:D8:52:LYS:H	30:D8:53:PRO:CD	2.13	0.59
31:DA:528:A:C2	31:DA:2042:A:H2'	2.37	0.59
31:DA:817:C:O2'	31:DA:839:U:H5''	2.03	0.59
31:DA:833:U:H5''	41:DP:48:PRO:HB3	1.84	0.59
31:DA:911:A:C5	42:DQ:9:TYR:CE2	2.90	0.59
31:DA:1497:U:O2	31:DA:1497:U:H2'	2.02	0.59
31:DA:2475:C:H42	31:DA:2529:G:H22	1.50	0.59
31:DA:2521:C:H42	31:DA:2544:G:H1	1.50	0.59
31:DA:2886:G:N3	31:DA:2887:U:C6	2.70	0.59
33:DD:241:PRO:O	33:DD:243:GLY:N	2.35	0.59
34:DE:154:LYS:HA	34:DE:154:LYS:CE	2.30	0.59
36:DG:45:GLU:HG2	36:DG:47:LYS:H	1.66	0.59
38:DI:15:VAL:HG23	38:DI:16:GLY:N	2.15	0.59
42:DQ:52:VAL:HA	42:DQ:55:VAL:HG13	1.85	0.59
47:DV:24:LYS:HB2	47:DV:92:THR:HG21	1.83	0.59
48:DW:20:VAL:HG23	48:DW:21:VAL:N	2.16	0.59
1:AA:22:G:H2'	1:AA:23:C:C6	2.38	0.59
1:AA:833:U:H2'	1:AA:834:C:C6	2.38	0.59
1:AA:883:C:C2'	1:AA:884:U:H5'	2.33	0.59
4:AD:7:PRO:HB3	4:AD:10:ARG:HD2	1.83	0.59
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.84	0.59
6:AF:33:TYR:O	6:AF:35:ALA:N	2.35	0.59
9:AI:116:LYS:O	9:AI:118:LYS:N	2.36	0.59
31:BA:52:A:C2'	31:BA:53:A:H5'	2.33	0.59
31:BA:538:G:H2'	31:BA:539:G:H8	1.67	0.59
31:BA:892:G:N1	31:BA:894:C:N4	2.50	0.59
31:BA:1531:C:H3'	31:BA:1532:C:H5'	1.82	0.59
31:BA:2376:A:H5''	31:BA:2377:A:OP2	2.02	0.59
31:BA:2619:C:H4'	34:BE:151:TYR:O	2.01	0.59
31:BA:2801(A):A:C4'	31:BA:2802:G:H5'	2.31	0.59
32:BB:21:G:O2'	32:BB:22:U:C6	2.53	0.59
32:BB:57:A:C2	32:BB:58:A:N7	2.70	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:35:LYS:HA	33:BD:64:ILE:CG2	2.31	0.59
34:BE:39:PRO:HD3	34:BE:45:THR:OG1	2.01	0.59
41:BP:80:TYR:CD1	41:BP:111:ARG:HB3	2.37	0.59
45:BT:65:LYS:HG3	45:BT:66:VAL:H	1.67	0.59
49:BX:36:LYS:O	49:BX:38:GLU:N	2.35	0.59
49:BX:63:LYS:O	49:BX:68:ARG:HA	2.03	0.59
1:CA:302:G:N3	1:CA:556:C:H4'	2.16	0.59
1:CA:520:A:N1	1:CA:536:C:H1'	2.17	0.59
1:CA:921:U:H1'	1:CA:922:G:N9	2.14	0.59
2:CB:162:ILE:HD12	2:CB:162:ILE:O	2.02	0.59
3:CC:123:GLN:HB3	3:CC:128:PHE:HB2	1.84	0.59
4:CD:138:TYR:HD2	4:CD:138:TYR:C	2.04	0.59
10:CJ:40:LEU:HD21	10:CJ:69:ASN:HB3	1.84	0.59
27:D5:51:TYR:CD2	27:D5:52:TYR:CZ	2.90	0.59
31:DA:118:A:C8	31:DA:119:A:C8	2.91	0.59
31:DA:272(B):G:O2'	31:DA:272(C):G:C5'	2.51	0.59
31:DA:380:U:H2'	31:DA:381:G:H8	1.68	0.59
31:DA:797:C:H2'	31:DA:798:G:H8	1.68	0.59
31:DA:1509(B):A:C2'	31:DA:1510:G:H8	2.16	0.59
31:DA:1712:C:H2'	31:DA:1713:U:C6	2.33	0.59
33:DD:24:ILE:O	33:DD:24:ILE:HG23	2.01	0.59
39:DN:125:GLY:HA2	39:DN:126:PRO:O	2.01	0.59
42:DQ:141:GLN:CB	51:DZ:70:LEU:HD13	2.25	0.59
44:DS:11:LYS:N	44:DS:11:LYS:HD2	2.17	0.59
46:DU:21:ALA:HA	46:DU:24:TYR:CE1	2.37	0.59
49:DX:52:VAL:CG2	49:DX:82:GLN:HA	2.32	0.59
1:AA:9:G:H5''	5:AE:122:GLU:OE2	2.02	0.59
1:AA:62:U:O2'	1:AA:379:C:H1'	2.02	0.59
1:AA:343:U:N3	1:AA:347:G:N1	2.51	0.59
1:AA:437:U:O2'	1:AA:438:G:H5'	2.03	0.59
1:AA:783:C:H2'	1:AA:784:C:H5'	1.85	0.59
1:AA:955:U:H3	1:AA:1225:A:H61	1.48	0.59
4:AD:194:LEU:HB3	4:AD:196:LEU:HD11	1.84	0.59
11:AK:127:LYS:HA	11:AK:127:LYS:NZ	2.18	0.59
12:AL:53:ARG:HH12	12:AL:92:ASP:HB3	1.66	0.59
23:B1:87:PRO:CD	23:B1:88:LYS:N	2.64	0.59
31:BA:1115:G:C4	31:BA:1116:C:C5	2.90	0.59
31:BA:2183:C:H2'	31:BA:2184:G:C8	2.37	0.59
32:BB:66:A:H61	32:BB:108:U:H2'	1.67	0.59
32:BB:82:G:C2'	32:BB:83:G:H5'	2.33	0.59
33:BD:244:ARG:HG2	33:BD:245:PRO:CD	2.28	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:9:VAL:HG22	34:BE:25:VAL:HB	1.85	0.59
36:BG:76:SER:CB	36:BG:84:LYS:H	2.15	0.59
39:BN:3:THR:HG22	39:BN:4:TYR:H	1.68	0.59
41:BP:10:PRO:CD	41:BP:11:GLY:H	2.14	0.59
45:BT:106:SER:HA	45:BT:110:ILE:CG1	2.32	0.59
49:BX:23:GLU:O	49:BX:25:LYS:N	2.36	0.59
1:CA:22:G:H2'	1:CA:23:C:C6	2.38	0.59
1:CA:36:C:H2'	1:CA:37:U:H5'	1.85	0.59
1:CA:66:G:C2	1:CA:67:C:C6	2.90	0.59
1:CA:746:A:H2'	1:CA:747:C:C6	2.38	0.59
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.18	0.59
2:CB:163:PHE:CA	2:CB:185:ILE:HG13	2.31	0.59
5:CE:101:ILE:HD13	5:CE:101:ILE:H	1.65	0.59
8:CH:91:ARG:CG	17:CQ:34:LYS:H	2.15	0.59
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.83	0.59
20:CT:23:ARG:HA	20:CT:26:ASN:HD21	1.68	0.59
23:D1:37:ILE:O	23:D1:37:ILE:HG23	2.02	0.59
25:D3:4:LEU:O	25:D3:36:VAL:HA	2.02	0.59
28:D6:42:TRP:HA	28:D6:42:TRP:HE3	1.66	0.59
31:DA:154:G:H8	31:DA:154:G:O5'	1.85	0.59
31:DA:384:U:H2'	31:DA:385:C:H6	1.68	0.59
31:DA:1040:C:H42	31:DA:1116:C:H42	1.46	0.59
31:DA:1368:G:O2'	31:DA:1369:G:H5'	2.01	0.59
31:DA:1438:U:O2'	31:DA:1439:A:H5'	2.03	0.59
31:DA:2464:C:O2'	31:DA:2465:C:P	2.61	0.59
31:DA:2577:A:H5''	31:DA:2578:G:H5'	1.84	0.59
37:DH:125:VAL:HG22	37:DH:131:VAL:HG22	1.84	0.59
37:DH:135:GLY:HA3	37:DH:141:VAL:HG23	1.85	0.59
38:DI:88:ILE:HG13	38:DI:121:LYS:C	2.21	0.59
41:DP:24:GLY:N	41:DP:33:ARG:HE	2.01	0.59
44:DS:31:SER:HB3	44:DS:34:HIS:O	2.02	0.59
45:DT:100:TYR:HD2	45:DT:103:ARG:NH2	2.00	0.59
46:DU:61:TRP:O	46:DU:64:ARG:N	2.35	0.59
50:DY:13:VAL:CG1	50:DY:72:VAL:HB	2.33	0.59
1:AA:102:G:C5	1:AA:103:C:C5	2.90	0.59
1:AA:156:G:C6	1:AA:166:G:N1	2.71	0.59
1:AA:272:C:H2'	1:AA:273:A:H8	1.66	0.59
12:AL:22:SER:O	12:AL:24:VAL:N	2.36	0.59
17:AQ:10:VAL:HG13	17:AQ:19:VAL:HB	1.85	0.59
23:B1:85:LEU:CB	23:B1:87:PRO:HD3	2.31	0.59
30:B8:12:LYS:HG2	41:BP:68:GLN:OE1	2.01	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:409:C:H42	31:BA:418:G:H1	1.51	0.59
31:BA:485:C:H2'	31:BA:486:C:C6	2.37	0.59
31:BA:626:U:H5''	31:BA:627:A:C5'	2.33	0.59
31:BA:637:A:O5'	41:BP:116:GLY:HA2	2.02	0.59
31:BA:706:A:H2'	31:BA:707:G:O4'	2.01	0.59
31:BA:806:C:OP2	41:BP:39:LYS:CD	2.48	0.59
31:BA:1291:C:O2'	31:BA:1292:U:H5'	2.02	0.59
31:BA:1418:G:H8	31:BA:1418:G:O5'	1.86	0.59
31:BA:1498:C:O4'	31:BA:1577:C:H4'	2.02	0.59
31:BA:1659:U:O2'	31:BA:1660:C:H5'	2.03	0.59
31:BA:1836:C:C2'	31:BA:1837:C:H5'	2.33	0.59
31:BA:2245:U:H5''	31:BA:2246:G:H5'	1.85	0.59
33:BD:35:LYS:HE3	33:BD:65:ILE:N	2.18	0.59
33:BD:77:ALA:HB2	33:BD:97:TYR:CG	2.37	0.59
34:BE:147:PRO:HB2	34:BE:149:ARG:HG2	1.83	0.59
36:BG:117:PHE:CE1	36:BG:120:LEU:HD23	2.37	0.59
36:BG:130:ASN:OD1	36:BG:160:VAL:HA	2.03	0.59
37:BH:41:MET:CG	37:BH:55:PRO:HD3	2.33	0.59
39:BN:89:LYS:O	39:BN:93:THR:HG22	2.02	0.59
40:BO:64:ARG:HB3	40:BO:79:PHE:CG	2.37	0.59
46:BU:90:VAL:HG12	46:BU:91:ASP:N	2.17	0.59
48:BW:12:ILE:HG13	48:BW:42:ARG:HH11	1.68	0.59
51:BZ:120:ILE:HG22	51:BZ:120:ILE:O	2.03	0.59
1:CA:145:G:H2'	1:CA:146:G:O4'	2.02	0.59
1:CA:555:C:C2	1:CA:556:C:C5	2.91	0.59
1:CA:559:A:H4'	1:CA:560:U:H3'	1.82	0.59
1:CA:682:G:H1	1:CA:708:C:N4	2.00	0.59
1:CA:760:G:H2'	1:CA:761:G:H5'	1.85	0.59
1:CA:1442:G:N7	1:CA:1442(B):A:C2	2.64	0.59
1:CA:1466:C:H2'	1:CA:1467:G:H5'	1.83	0.59
2:CB:22:LYS:HZ3	2:CB:40:HIS:HE1	1.48	0.59
8:CH:97:VAL:O	8:CH:100:ILE:HG13	2.02	0.59
16:CP:7:ALA:O	16:CP:9:PHE:CD2	2.56	0.59
20:CT:48:LYS:HB2	20:CT:52:ALA:HB2	1.84	0.59
25:D3:52:HIS:CD2	25:D3:52:HIS:N	2.68	0.59
31:DA:271(E):U:H2'	31:DA:271(F):C:H6	1.66	0.59
31:DA:448:U:H3'	31:DA:449:A:C5'	2.31	0.59
31:DA:764:A:H5''	33:DD:210:GLY:HA3	1.84	0.59
31:DA:1488:G:C2	31:DA:1489:U:O2	2.54	0.59
31:DA:1510:G:H2'	31:DA:1511:C:C6	2.38	0.59
31:DA:1747:G:C4	31:DA:1747(A):G:C8	2.90	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1819:A:H4'	31:DA:1820:U:O5'	2.02	0.59
31:DA:2050:C:H1'	34:DE:156:MET:CE	2.32	0.59
31:DA:2653:U:H3	31:DA:2667:C:H42	1.48	0.59
33:DD:241:PRO:O	33:DD:242:ARG:HB2	2.03	0.59
35:DF:132:VAL:C	35:DF:134:GLY:H	2.06	0.59
37:DH:89:ILE:N	37:DH:89:ILE:HD12	2.18	0.59
37:DH:89:ILE:CG1	37:DH:90:LYS:H	2.16	0.59
39:DN:115:ARG:HH11	39:DN:115:ARG:HG3	1.66	0.59
44:DS:93:LYS:O	44:DS:94:TYR:C	2.41	0.59
51:DZ:53:ILE:HG22	51:DZ:71:VAL:CB	2.29	0.59
1:AA:297:G:H4'	1:AA:557:G:H4'	1.83	0.59
1:AA:444:C:C2	1:AA:445:G:C8	2.90	0.59
1:AA:625:G:H2'	1:AA:626:U:C6	2.38	0.59
1:AA:741:G:H2'	1:AA:742:G:O4'	2.02	0.59
1:AA:946:A:C2	1:AA:1236:A:C2	2.91	0.59
1:AA:1072:G:C2	1:AA:1073:U:C2	2.91	0.59
1:AA:1112:C:O2	3:AC:178:LEU:HB2	2.03	0.59
5:AE:103:GLY:O	5:AE:106:PRO:HD2	2.03	0.59
17:AQ:6:LEU:HD13	17:AQ:23:VAL:HG11	1.83	0.59
23:B1:10:LYS:CG	23:B1:11:ARG:N	2.65	0.59
31:BA:208:C:H2'	31:BA:209:C:C6	2.37	0.59
31:BA:855:G:C5	31:BA:856:C:C4	2.90	0.59
31:BA:996:A:H4'	46:BU:92:ARG:CZ	2.32	0.59
31:BA:1744:C:H2'	31:BA:1745:C:H5'	1.84	0.59
31:BA:2069:G:C2'	31:BA:2070:G:H5'	2.32	0.59
31:BA:2228:G:C6	31:BA:2229:C:C4	2.91	0.59
31:BA:2523:G:C2'	31:BA:2524:G:C5'	2.76	0.59
33:BD:72:LYS:HE3	33:BD:99:ASP:OD1	2.02	0.59
46:BU:75:ASN:HB3	46:BU:77:SER:OG	2.03	0.59
47:BV:66:ARG:CG	47:BV:67:GLY:N	2.63	0.59
1:CA:389:A:H2'	1:CA:390:C:C5'	2.31	0.59
1:CA:1112:C:O2	3:CC:178:LEU:HB2	2.02	0.59
6:CF:45:LEU:HD12	6:CF:57:GLN:HB3	1.84	0.59
9:CI:114:TYR:HE1	10:CJ:60:ARG:O	1.85	0.59
13:CM:106:ASN:O	13:CM:107:ALA:HB3	2.03	0.59
31:DA:1140:C:OP1	39:DN:23:LEU:O	2.21	0.59
31:DA:1332:G:H22	31:DA:1610:A:H8	1.50	0.59
31:DA:1484:G:N1	31:DA:1506:C:N4	2.49	0.59
31:DA:1531:C:H3'	31:DA:1532:C:H5'	1.84	0.59
31:DA:1543:C:OP2	31:DA:1543:C:C5	2.56	0.59
31:DA:1657:C:H2'	31:DA:1658:C:H6	1.68	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:70:TRP:HZ3	33:DD:146:GLU:OE2	1.86	0.59
34:DE:35:GLN:NE2	34:DE:37:ARG:HH21	2.01	0.59
35:DF:7:TYR:CD1	35:DF:8:GLN:N	2.69	0.59
35:DF:89:VAL:CG1	35:DF:90:PHE:N	2.66	0.59
39:DN:66:LYS:HB3	39:DN:70:LYS:HB2	1.84	0.59
39:DN:91:LEU:HA	39:DN:95:PRO:CB	2.25	0.59
41:DP:57:THR:HB	41:DP:59:LEU:N	2.17	0.59
49:DX:8:ILE:HD11	49:DX:43:VAL:HA	1.84	0.59
51:DZ:99:TYR:HA	51:DZ:125:LEU:HA	1.85	0.59
1:AA:173:U:O4'	1:AA:197:A:C4	2.55	0.59
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.38	0.59
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.03	0.59
4:AD:18:LYS:HD2	4:AD:33:MET:CG	2.27	0.59
16:AP:64:ALA:O	16:AP:65:GLN:C	2.41	0.59
31:BA:603:A:H4'	31:BA:604:G:O5'	2.02	0.59
31:BA:828:U:H3'	31:BA:828:U:O2	2.03	0.59
31:BA:995:C:OP2	46:BU:54:LYS:HE3	2.02	0.59
31:BA:1019:U:N3	31:BA:1142(A):A:N6	2.41	0.59
31:BA:1044:G:C6	31:BA:1112:G:N1	2.69	0.59
31:BA:1190:G:C4'	41:BP:35:HIS:HB3	2.30	0.59
31:BA:1388:G:H2'	31:BA:1389:G:H8	1.66	0.59
31:BA:1448:G:H21	31:BA:1528(A):A:H2	1.51	0.59
31:BA:1689:A:H62	31:BA:1698:A:H2	1.50	0.59
31:BA:1693:U:H4'	31:BA:1694:C:OP2	2.02	0.59
31:BA:1750:G:O2'	31:BA:2860:A:N1	2.34	0.59
31:BA:2252:G:H2'	31:BA:2253:G:H8	1.66	0.59
31:BA:2388:A:H2'	31:BA:2389:G:H5'	1.83	0.59
31:BA:2563:U:H4'	40:BO:28:SER:HA	1.85	0.59
31:BA:2757:A:C2	37:BH:67:LEU:HD22	2.38	0.59
31:BA:2889:C:H3'	31:BA:2891:G:H8	1.67	0.59
32:BB:116:G:C2	32:BB:117:G:C8	2.91	0.59
33:BD:95:LEU:HD21	33:BD:105:ILE:HG22	1.83	0.59
34:BE:111:ARG:NH1	43:BR:2:ARG:HH21	2.00	0.59
37:BH:109:PHE:CE1	37:BH:152:ARG:CZ	2.86	0.59
41:BP:97:PRO:HD3	41:BP:126:VAL:O	2.01	0.59
42:BQ:141:GLN:CB	51:BZ:70:LEU:HD13	2.25	0.59
51:BZ:9:TYR:CE2	51:BZ:35:ARG:HD2	2.37	0.59
51:BZ:130:PRO:HA	51:BZ:133:ILE:CG1	2.33	0.59
51:BZ:171:ILE:O	51:BZ:172:ALA:CB	2.50	0.59
1:CA:60:A:H4'	1:CA:61:G:O5'	2.03	0.59
1:CA:156:G:C6	1:CA:166:G:N1	2.71	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:303:A:H2'	1:CA:304:U:O4'	2.01	0.59
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.37	0.59
2:CB:16:HIS:HB3	2:CB:210:SER:HA	1.85	0.59
3:CC:35:GLU:HB3	3:CC:59:ARG:HH22	1.67	0.59
4:CD:119:GLN:O	4:CD:123:HIS:CD2	2.55	0.59
11:CK:127:LYS:HA	11:CK:127:LYS:NZ	2.18	0.59
25:D3:8:LEU:CD1	25:D3:31:LEU:HD23	2.18	0.59
31:DA:743:G:O2'	31:DA:744:G:H5'	2.02	0.59
31:DA:1665:A:C2'	31:DA:1666:G:H5'	2.33	0.59
31:DA:2041:U:H2'	31:DA:2042:A:H8	1.68	0.59
31:DA:2299:G:C6	31:DA:2318:G:C8	2.91	0.59
31:DA:2377:A:H2'	31:DA:2378:A:C8	2.37	0.59
32:DB:45:A:H2'	32:DB:46:A:H5'	1.84	0.59
33:DD:77:ALA:HB2	33:DD:97:TYR:CG	2.38	0.59
36:DG:11:TYR:CG	36:DG:100:TRP:HH2	2.21	0.59
38:DI:54:GLN:HA	38:DI:57:ARG:NH1	2.17	0.59
42:DQ:24:GLY:HA2	51:DZ:78:LYS:HA	1.85	0.59
47:DV:5:VAL:CG2	47:DV:36:PRO:HB2	2.33	0.59
49:DX:4:ALA:C	49:DX:6:ASP:H	2.04	0.59
50:DY:45:VAL:HG13	50:DY:62:GLU:CG	2.33	0.59
50:DY:96:ILE:HB	50:DY:99:CYS:HB3	1.85	0.59
51:DZ:165:VAL:HG12	51:DZ:166:SER:N	2.17	0.59
1:AA:36:C:H2'	1:AA:37:U:H5'	1.85	0.59
1:AA:746:A:H2'	1:AA:747:C:C6	2.38	0.59
1:AA:864:A:H8	1:AA:864:A:O5'	1.86	0.59
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.03	0.59
23:B1:19:GLN:CD	23:B1:44:PRO:HB3	2.23	0.59
27:B5:50:GLY:HA3	27:B5:56:LYS:CG	2.33	0.59
30:B8:34:TRP:HZ3	30:B8:41:ILE:HG23	1.68	0.59
31:BA:39:C:H2'	31:BA:40:C:C6	2.36	0.59
31:BA:221:A:H4'	31:BA:222:A:O5'	2.02	0.59
31:BA:478:A:C6	31:BA:480:A:C6	2.91	0.59
31:BA:688:U:H5'	31:BA:1780:A:C2	2.38	0.59
31:BA:729:G:OP2	33:BD:13:ARG:NH1	2.30	0.59
31:BA:756:C:C4	31:BA:757:U:C5	2.90	0.59
31:BA:1812:A:C2	31:BA:1813:G:C5	2.91	0.59
31:BA:2859:G:C8	31:BA:2859:G:C3'	2.84	0.59
32:BB:35:U:C4	32:BB:36:C:C4	2.91	0.59
32:BB:66:A:C5	32:BB:109:C:C5	2.91	0.59
33:BD:54:ARG:C	33:BD:218:ARG:HG3	2.22	0.59
41:BP:24:GLY:N	41:BP:33:ARG:HE	1.99	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:93:LYS:O	44:BS:94:TYR:C	2.41	0.59
49:BX:89:ILE:HA	49:BX:92:LEU:HB2	1.84	0.59
1:CA:297:G:H4'	1:CA:557:G:H4'	1.85	0.59
1:CA:525:C:OP1	12:CL:91:LYS:HB2	2.03	0.59
1:CA:1067:A:O2'	1:CA:1093:A:O2'	2.17	0.59
5:CE:15:ARG:HD2	5:CE:26:PHE:CD2	2.38	0.59
7:CG:37:ASN:HD21	9:CI:40:LEU:HD22	1.68	0.59
11:CK:53:SER:C	11:CK:55:LYS:H	2.06	0.59
13:CM:15:VAL:HG22	13:CM:41:PRO:HA	1.84	0.59
24:D2:26:ARG:CG	49:DX:5:TYR:CB	2.81	0.59
31:DA:80:G:H2'	31:DA:81:G:H5'	1.85	0.59
31:DA:116:C:H2'	31:DA:117:G:O4'	2.03	0.59
31:DA:484:C:H2'	31:DA:485:C:C6	2.38	0.59
31:DA:538:G:H2'	31:DA:539:G:H8	1.68	0.59
31:DA:1468:C:H2'	31:DA:1469:A:C8	2.37	0.59
31:DA:1668:A:H4'	31:DA:1669:A:O5'	2.02	0.59
31:DA:1899:G:N2	31:DA:1902:C:N4	2.26	0.59
31:DA:2521:C:N4	31:DA:2544:G:H1	2.01	0.59
31:DA:2543:G:H2'	31:DA:2544:G:C8	2.37	0.59
33:DD:35:LYS:CD	33:DD:104:TYR:HD1	2.15	0.59
34:DE:117:MET:O	34:DE:117:MET:HG2	2.02	0.59
35:DF:114:VAL:HG21	35:DF:202:PHE:CZ	2.38	0.59
37:DH:44:VAL:O	37:DH:46:GLU:OE2	2.20	0.59
39:DN:78:TYR:CD1	39:DN:79:PRO:HB3	2.38	0.59
39:DN:91:LEU:CA	39:DN:95:PRO:HB3	2.23	0.59
40:DO:78:ARG:HG2	45:DT:73:GLU:HG3	1.84	0.59
47:DV:16:PRO:C	47:DV:98:GLU:OE2	2.41	0.59
47:DV:18:LEU:O	47:DV:97:LYS:HD2	2.02	0.59
50:DY:37:VAL:O	50:DY:38:ILE:CB	2.38	0.59
51:DZ:63:ASP:O	51:DZ:65:GLN:N	2.36	0.59
1:AA:145:G:H2'	1:AA:146:G:O4'	2.02	0.59
1:AA:939:G:H5''	7:AG:102:ARG:NH1	2.18	0.59
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.38	0.59
1:AA:1484:C:O2'	31:BA:1960:A:O2'	2.04	0.59
4:AD:18:LYS:HE3	4:AD:31:CYS:CB	2.33	0.59
4:AD:138:TYR:C	4:AD:138:TYR:CD2	2.73	0.59
17:AQ:65:ILE:H	17:AQ:65:ILE:HD12	1.67	0.59
30:B8:30:ARG:HH21	41:BP:62:LEU:HB2	1.68	0.59
31:BA:269:U:O2	31:BA:269:U:H2'	2.03	0.59
31:BA:271(M):G:H5''	38:BI:57:ARG:HD3	1.84	0.59
31:BA:676:A:H8	31:BA:2069:G:N2	1.82	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1568:G:N2	33:BD:58:HIS:CE1	2.68	0.59
31:BA:1747:G:C4	31:BA:1747(A):G:C8	2.91	0.59
31:BA:2100:G:C4	31:BA:2190:G:N2	2.71	0.59
35:BF:84:VAL:O	35:BF:85:GLY:C	2.38	0.59
37:BH:158:HIS:HE1	37:BH:168:PRO:HG2	1.68	0.59
40:BO:23:ARG:HD2	40:BO:24:VAL:H	1.67	0.59
44:BS:11:LYS:N	44:BS:11:LYS:HD2	2.17	0.59
44:BS:62:LYS:O	44:BS:66:ALA:HB2	2.03	0.59
45:BT:29:ARG:HG3	45:BT:30:VAL:H	1.68	0.59
1:CA:29:G:O2'	1:CA:30:U:H5'	2.03	0.59
1:CA:49:U:C2	1:CA:361:G:N2	2.70	0.59
1:CA:618:C:N3	1:CA:622:A:N6	2.50	0.59
1:CA:932:C:H4'	7:CG:4:ARG:NH2	2.18	0.59
1:CA:1113:C:H2'	1:CA:1114:C:C6	2.37	0.59
4:CD:209:ARG:HH11	4:CD:209:ARG:HG3	1.65	0.59
11:CK:18:ARG:NH2	11:CK:37:GLY:HA2	2.18	0.59
29:D7:15:THR:HG22	29:D7:16:HIS:CG	2.38	0.59
30:D8:7:HIS:CD2	41:DP:50:ARG:HD3	2.38	0.59
31:DA:220:G:O2'	31:DA:233:A:N3	2.35	0.59
31:DA:687:C:C2	31:DA:788:A:H5'	2.38	0.59
31:DA:867:C:C6	31:DA:868:U:C5	2.91	0.59
31:DA:1410:G:H2'	31:DA:1411:C:C6	2.38	0.59
31:DA:2461:C:H2'	31:DA:2462:U:C6	2.38	0.59
31:DA:2835:A:C5	31:DA:2879:C:C5	2.91	0.59
33:DD:224:ALA:HB2	33:DD:233:HIS:HB3	1.85	0.59
34:DE:120:TRP:CD2	34:DE:155:LYS:HD3	2.37	0.59
35:DF:53:THR:HG23	35:DF:56:GLU:HB2	1.85	0.59
39:DN:40:PRO:O	46:DU:64:ARG:NH2	2.35	0.59
40:DO:113:LYS:O	40:DO:117:LEU:HB2	2.03	0.59
43:DR:99:LYS:NZ	43:DR:99:LYS:HB3	2.18	0.59
45:DT:10:VAL:HG12	45:DT:11:GLU:N	2.17	0.59
45:DT:106:SER:HA	45:DT:110:ILE:CG1	2.31	0.59
48:DW:18:ARG:HH11	48:DW:18:ARG:CG	2.08	0.59
49:DX:29:TRP:CH2	49:DX:76:ARG:NH1	2.71	0.59
51:DZ:3:TYR:CD2	51:DZ:51:ALA:HB2	2.38	0.59
51:DZ:100:VAL:N	51:DZ:124:ILE:O	2.36	0.59
1:AA:109:A:C6	1:AA:326:G:C6	2.91	0.58
1:AA:284:G:H2'	1:AA:285:G:C8	2.38	0.58
1:AA:939:G:H1'	1:AA:1375:A:C2	2.37	0.58
2:AB:90:MET:C	2:AB:154:LEU:HD12	2.23	0.58
8:AH:64:LYS:HG2	8:AH:79:VAL:HG21	1.85	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:48:ILE:HG23	11:AK:63:LEU:HD22	1.84	0.58
17:AQ:18:THR:HG23	17:AQ:69:LYS:HE3	1.85	0.58
23:B1:73:LEU:HD13	23:B1:90:ILE:O	2.02	0.58
31:BA:671:C:O2'	31:BA:672:C:H5'	2.02	0.58
31:BA:1007:C:H5''	39:BN:35:ARG:HH11	1.66	0.58
31:BA:1416:G:O2'	31:BA:1417:C:OP2	2.16	0.58
31:BA:2009:G:OP1	48:BW:41:LYS:HE2	2.03	0.58
31:BA:2247:A:H2'	31:BA:2248:C:H6	1.68	0.58
31:BA:2280:G:H2'	31:BA:2281:C:H5'	1.83	0.58
32:BB:25:A:C2'	32:BB:26:A:H8	2.16	0.58
35:BF:89:VAL:HG12	35:BF:90:PHE:H	1.66	0.58
36:BG:128:ARG:O	36:BG:129:GLY:C	2.40	0.58
37:BH:141:VAL:CG1	37:BH:142:GLY:N	2.65	0.58
38:BI:109:ILE:H	38:BI:109:ILE:HD12	1.68	0.58
49:BX:24:GLY:O	49:BX:25:LYS:O	2.20	0.58
49:BX:52:VAL:CG2	49:BX:82:GLN:HA	2.32	0.58
50:BY:97:ARG:NH2	50:BY:98:VAL:HB	2.18	0.58
1:CA:681:C:N3	1:CA:710:G:C2	2.71	0.58
1:CA:826:C:H2'	1:CA:827:U:C6	2.38	0.58
1:CA:939:G:H5''	7:CG:102:ARG:NH1	2.17	0.58
1:CA:940:C:H2'	1:CA:941:G:H8	1.68	0.58
1:CA:1160:G:C2	1:CA:1161:C:C6	2.91	0.58
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.37	0.58
7:CG:22:LEU:HG	7:CG:62:PHE:HE2	1.66	0.58
11:CK:65:ALA:HB3	11:CK:97:ALA:HB3	1.85	0.58
13:CM:46:LYS:HG3	13:CM:47:ASP:N	2.18	0.58
20:CT:14:LYS:O	20:CT:18:GLN:HG3	2.03	0.58
22:D0:72:ARG:O	22:D0:75:LEU:HB2	2.02	0.58
27:D5:11:THR:CG2	31:DA:1264:G:H5'	2.32	0.58
30:D8:58:ILE:HG22	41:DP:49:ARG:HD2	1.85	0.58
31:DA:92:A:H2'	31:DA:93:G:H8	1.68	0.58
31:DA:288:C:C2	31:DA:289:A:C8	2.91	0.58
31:DA:869:G:C4	31:DA:870:A:C8	2.91	0.58
31:DA:956:G:OP1	42:DQ:86:GLY:N	2.30	0.58
31:DA:1465:G:N3	31:DA:1545:A:H2	2.01	0.58
31:DA:1509(B):A:C3'	31:DA:1510:G:H8	2.16	0.58
31:DA:1527:G:H5''	31:DA:1528:A:OP1	2.03	0.58
31:DA:2393:A:C2'	31:DA:2394:C:H5'	2.33	0.58
31:DA:2396:G:HO2'	31:DA:2397:G:H5'	1.67	0.58
31:DA:2527:C:H2'	31:DA:2528:U:O4'	2.03	0.58
31:DA:2757:A:C2	37:DH:67:LEU:HD22	2.38	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:142:VAL:HG23	33:DD:193:VAL:HA	1.85	0.58
33:DD:222:ARG:O	33:DD:225:ALA:HB3	2.03	0.58
34:DE:6:GLY:O	34:DE:195:LEU:HD12	2.02	0.58
41:DP:7:ARG:O	41:DP:7:ARG:NH1	2.36	0.58
41:DP:35:HIS:O	41:DP:35:HIS:HD2	1.86	0.58
46:DU:88:ILE:O	46:DU:88:ILE:HD13	2.03	0.58
47:DV:36:PRO:CD	47:DV:60:GLU:O	2.51	0.58
47:DV:43:GLU:HA	47:DV:48:GLY:CA	2.32	0.58
48:DW:47:VAL:HA	48:DW:50:VAL:HG12	1.84	0.58
49:DX:63:LYS:HE3	49:DX:70:LEU:HD22	1.84	0.58
50:DY:97:ARG:NH2	50:DY:98:VAL:HB	2.18	0.58
1:AA:63:C:N4	1:AA:104:G:H1	2.01	0.58
1:AA:69:G:H2'	1:AA:70:G:C8	2.38	0.58
1:AA:247:G:OP2	17:AQ:100:LYS:HG2	2.03	0.58
1:AA:360:A:O2'	1:AA:361:G:H5'	2.02	0.58
1:AA:427:U:C4	1:AA:428:G:C6	2.91	0.58
1:AA:811:C:H4'	1:AA:900:A:N6	2.18	0.58
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.36	0.58
1:AA:1416:G:H2'	1:AA:1417:G:O4'	2.02	0.58
5:AE:136:MET:HB3	5:AE:140:ARG:NH2	2.18	0.58
7:AG:138:LYS:HE2	7:AG:142:GLU:OE2	2.04	0.58
8:AH:12:ARG:HH12	8:AH:58:TYR:HE2	1.51	0.58
11:AK:18:ARG:NH2	11:AK:37:GLY:HA2	2.18	0.58
11:AK:65:ALA:HB3	11:AK:97:ALA:HB3	1.85	0.58
12:AL:90:VAL:O	12:AL:92:ASP:N	2.30	0.58
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.84	0.58
23:B1:48:LYS:HA	23:B1:48:LYS:CE	2.27	0.58
31:BA:71:A:C2	49:BX:31:HIS:HE1	2.19	0.58
31:BA:1151:G:H5''	46:BU:81:HIS:CE1	2.38	0.58
31:BA:1153:C:H2'	31:BA:1154:G:O4'	2.04	0.58
31:BA:1496:A:H5''	31:BA:1497:U:OP2	2.03	0.58
31:BA:1526:G:C6	31:BA:1527:G:C2	2.90	0.58
31:BA:2235:G:H2'	31:BA:2236:C:C6	2.38	0.58
31:BA:2404:C:H2'	31:BA:2405:G:H5'	1.84	0.58
31:BA:2556:C:H2'	31:BA:2557:G:O4'	2.02	0.58
33:BD:27:THR:CG2	33:BD:83:GLU:HG2	2.21	0.58
34:BE:61:ARG:N	34:BE:62:PRO:HD2	2.17	0.58
37:BH:85:LYS:HZ3	37:BH:145:ALA:CA	2.17	0.58
38:BI:132:PRO:C	38:BI:133:HIS:HD2	2.05	0.58
39:BN:91:LEU:CD2	39:BN:98:VAL:HG21	2.32	0.58
42:BQ:42:ILE:HD13	42:BQ:97:VAL:CG2	2.32	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BW:62:HIS:O	48:BW:63:ASP:C	2.41	0.58
1:CA:131:C:H2'	1:CA:132:C:H6	1.68	0.58
1:CA:136:C:H42	1:CA:227:G:H1	1.50	0.58
1:CA:724:G:C2	1:CA:725:G:C8	2.91	0.58
1:CA:774:G:H2'	1:CA:775:G:H5'	1.84	0.58
1:CA:927:G:OP2	1:CA:1503:A:C8	2.56	0.58
1:CA:963:G:H21	10:CJ:55:LYS:CE	2.15	0.58
1:CA:1350:A:H8	1:CA:1350:A:O5'	1.84	0.58
3:CC:71:ALA:HB2	3:CC:115:LEU:CD1	2.33	0.58
6:CF:33:TYR:HB3	6:CF:71:ARG:HE	1.69	0.58
12:CL:105:TYR:C	12:CL:107:ALA:H	2.05	0.58
27:D5:46:CYS:SG	27:D5:47:PRO:HD2	2.42	0.58
30:D8:35:GLN:HE21	30:D8:36:LYS:HG3	1.67	0.58
31:DA:250:G:C6	31:DA:251:A:C6	2.92	0.58
31:DA:386:G:H3'	31:DA:388:G:N2	2.18	0.58
31:DA:819:A:N3	31:DA:1189:A:C2	2.72	0.58
31:DA:1021:A:C8	31:DA:1021:A:C3'	2.80	0.58
31:DA:1114:G:C2'	31:DA:1115:G:H5'	2.33	0.58
31:DA:1162:G:O2'	47:DV:92:THR:CG2	2.51	0.58
31:DA:1572:A:O5'	31:DA:1572:A:H8	1.85	0.58
31:DA:1797:C:H4'	33:DD:257:LEU:O	2.03	0.58
31:DA:1803:A:O3'	33:DD:259:THR:HG22	2.03	0.58
31:DA:2306:C:C5	31:DA:2307:G:H1'	2.38	0.58
31:DA:2403:C:N3	31:DA:2415:G:C2	2.71	0.58
31:DA:2641:G:OP1	39:DN:75:TYR:CD2	2.55	0.58
31:DA:2752:C:C2	31:DA:2753:A:C8	2.91	0.58
31:DA:2839:G:H5'	43:DR:46:GLY:HA2	1.86	0.58
31:DA:2840:C:H5''	43:DR:53:HIS:CD2	2.38	0.58
31:DA:2842:G:H2'	31:DA:2843:G:H8	1.68	0.58
32:DB:73:A:H3'	32:DB:74:U:H6	1.68	0.58
33:DD:253:GLN:HB3	33:DD:255:LYS:CE	2.32	0.58
37:DH:43:VAL:O	37:DH:43:VAL:HG23	2.03	0.58
37:DH:143:GLN:HE22	37:DH:147:ASN:HD21	1.49	0.58
38:DI:91:SER:CB	38:DI:119:PRO:HB2	2.31	0.58
40:DO:4:PRO:O	40:DO:5:GLN:CB	2.50	0.58
41:DP:131:SER:C	41:DP:133:SER:N	2.56	0.58
42:DQ:7:MET:O	42:DQ:10:ARG:NE	2.35	0.58
45:DT:61:PHE:CZ	45:DT:76:PHE:HB2	2.38	0.58
46:DU:83:LEU:HD12	46:DU:113:ALA:HB2	1.84	0.58
46:DU:95:LEU:HD22	47:DV:4:ILE:HD11	1.85	0.58
48:DW:73:ALA:HB3	48:DW:106:ILE:HD11	1.85	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:5:LEU:CD1	51:DZ:43:GLU:HB3	2.32	0.58
1:AA:299:G:C6	1:AA:300:A:N1	2.72	0.58
1:AA:397:A:H5''	1:AA:397:A:N3	2.18	0.58
1:AA:719:C:H6	1:AA:720:C:C5	2.21	0.58
24:B2:12:GLU:HA	24:B2:14:ARG:HH21	1.68	0.58
24:B2:26:ARG:HG2	49:BX:5:TYR:CB	2.34	0.58
31:BA:753:C:O5'	31:BA:753:C:H6	1.86	0.58
31:BA:942:G:C2'	31:BA:943:U:H5'	2.33	0.58
31:BA:1318:C:H3'	31:BA:1319:G:H5''	1.84	0.58
31:BA:1558:A:H3'	31:BA:1558:A:OP2	2.04	0.58
31:BA:1763:G:OP1	31:BA:1763:G:H4'	2.03	0.58
31:BA:1952:A:C6	31:BA:1953:A:N1	2.71	0.58
31:BA:2193:G:H2'	31:BA:2194:G:O4'	2.03	0.58
31:BA:2611:U:H5'	31:BA:2611:U:H6	1.69	0.58
31:BA:2843:G:C4	31:BA:2844:G:C8	2.92	0.58
32:BB:21:G:C8	32:BB:22:U:H1'	2.38	0.58
32:BB:55:U:OP2	32:BB:55:U:C6	2.56	0.58
35:BF:110:LEU:HD22	35:BF:202:PHE:CE1	2.38	0.58
38:BI:29:TYR:O	38:BI:32:PRO:HD2	2.03	0.58
39:BN:16:ILE:O	39:BN:54:VAL:HA	2.03	0.58
40:BO:7:TYR:CZ	40:BO:44:LYS:HG3	2.37	0.58
44:BS:52:SER:OG	44:BS:56:LEU:N	2.36	0.58
1:CA:184:G:O2'	1:CA:185:A:H5'	2.04	0.58
1:CA:327:A:C2	1:CA:329:A:C4	2.91	0.58
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.18	0.58
1:CA:1350:A:H2'	1:CA:1351:U:C6	2.38	0.58
5:CE:105:VAL:HB	5:CE:106:PRO:HD3	1.84	0.58
6:CF:94:GLN:O	6:CF:96:PRO:HD3	2.03	0.58
8:CH:120:THR:H	8:CH:123:GLU:HB2	1.68	0.58
9:CI:114:TYR:CD2	9:CI:114:TYR:N	2.69	0.58
12:CL:62:SER:C	12:CL:64:TYR:N	2.56	0.58
24:D2:48:HIS:O	24:D2:48:HIS:CD2	2.56	0.58
27:D5:4:HIS:CD2	31:DA:2056:G:H1	2.22	0.58
31:DA:355:G:C2	31:DA:356:G:C8	2.91	0.58
31:DA:543:C:H42	31:DA:551:G:H1	1.51	0.58
31:DA:911:A:C6	42:DQ:9:TYR:CE2	2.85	0.58
31:DA:1162:G:O2'	47:DV:92:THR:HG22	2.04	0.58
31:DA:1824:G:O2'	31:DA:1825:A:H5'	2.02	0.58
31:DA:2452:C:H2'	31:DA:2453:A:O4'	2.03	0.58
31:DA:2565:A:C5'	31:DA:2566:A:OP2	2.39	0.58
31:DA:2567:G:C4	31:DA:2568:C:C5	2.92	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:27:THR:CG2	33:DD:83:GLU:HG2	2.16	0.58
33:DD:210:GLY:O	33:DD:211:ARG:HB3	2.03	0.58
34:DE:169:ASN:ND2	34:DE:201:THR:HG21	2.18	0.58
36:DG:94:LEU:HD11	36:DG:102:PHE:CD1	2.38	0.58
37:DH:85:LYS:NZ	37:DH:145:ALA:HA	2.18	0.58
42:DQ:134:ARG:HH12	51:DZ:119:GLU:CD	2.05	0.58
44:DS:62:LYS:O	44:DS:66:ALA:HB2	2.03	0.58
45:DT:65:LYS:CE	45:DT:66:VAL:H	2.10	0.58
49:DX:74:PRO:O	49:DX:75:ASP:C	2.41	0.58
1:AA:84:U:H5	1:AA:88:A:N9	2.00	0.58
1:AA:520:A:H2	1:AA:536:C:O2	1.86	0.58
1:AA:1216:G:H5'	14:AN:5:ALA:CB	2.33	0.58
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.85	0.58
4:AD:135:LEU:C	4:AD:137:SER:H	2.06	0.58
4:AD:209:ARG:HG2	4:AD:209:ARG:NH1	2.11	0.58
12:AL:74:GLY:O	12:AL:102:ARG:NH2	2.35	0.58
23:B1:10:LYS:O	23:B1:13:ILE:CG2	2.52	0.58
23:B1:34:THR:HG21	31:BA:388:G:P	2.43	0.58
30:B8:35:GLN:HA	31:BA:2420:C:OP2	2.03	0.58
31:BA:643:A:O2'	31:BA:644:A:H5'	2.02	0.58
31:BA:855:G:C6	31:BA:856:C:C4	2.92	0.58
31:BA:995:C:C2	39:BN:4:TYR:CZ	2.92	0.58
31:BA:1478:G:C2'	31:BA:1479:G:H5'	2.33	0.58
31:BA:1887:C:C2'	31:BA:1888:G:C5'	2.80	0.58
31:BA:2391:G:O6	31:BA:2425:A:H8	1.85	0.58
31:BA:2531:A:C2	31:BA:2658:C:O2	2.56	0.58
31:BA:2830:G:C8	31:BA:2830:G:C5'	2.85	0.58
33:BD:175:LEU:HD12	33:BD:185:VAL:HG21	1.85	0.58
37:BH:89:ILE:CD1	37:BH:89:ILE:H	2.17	0.58
38:BI:120:ILE:CD1	38:BI:140:LEU:HD23	2.33	0.58
42:BQ:23:GLY:HA2	42:BQ:101:ARG:N	2.18	0.58
44:BS:61:ASN:OD1	44:BS:64:GLU:HB2	2.03	0.58
44:BS:95:HIS:CG	44:BS:96:GLY:N	2.71	0.58
45:BT:109:GLU:O	45:BT:113:LYS:HG3	2.04	0.58
50:BY:81:LYS:HD3	50:BY:97:ARG:HG3	1.84	0.58
1:CA:620:C:H2'	1:CA:621:A:O4'	2.04	0.58
1:CA:811:C:H4'	1:CA:900:A:N6	2.19	0.58
1:CA:834:C:H2'	1:CA:835:U:C6	2.38	0.58
4:CD:194:LEU:HB3	4:CD:196:LEU:CD1	2.34	0.58
6:CF:6:VAL:HG13	6:CF:90:VAL:HG22	1.85	0.58
6:CF:33:TYR:O	6:CF:35:ALA:N	2.35	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:12:GLU:CD	24:D2:12:GLU:C	2.62	0.58
25:D3:45:GLY:HA3	31:DA:851:U:O2'	2.03	0.58
30:D8:8:LYS:HE2	31:DA:243:U:OP2	2.03	0.58
31:DA:479:A:H4'	31:DA:480:A:OP1	2.02	0.58
31:DA:1164:G:H2'	31:DA:1165:U:C6	2.39	0.58
31:DA:1501:C:H2'	31:DA:1502:C:C6	2.31	0.58
31:DA:1972:A:H2'	31:DA:1973:G:H8	1.68	0.58
31:DA:2228:G:C5	31:DA:2229:C:C5	2.91	0.58
31:DA:2247:A:H2'	31:DA:2248:C:H6	1.69	0.58
31:DA:2831:G:O4'	31:DA:2883:A:C2	2.56	0.58
35:DF:57:VAL:CG1	35:DF:58:ALA:N	2.67	0.58
41:DP:98:GLU:HG3	41:DP:99:LEU:N	2.17	0.58
42:DQ:42:ILE:HD13	42:DQ:97:VAL:CG2	2.33	0.58
45:DT:29:ARG:HG3	45:DT:30:VAL:H	1.67	0.58
45:DT:32:TYR:CD2	45:DT:81:PRO:HB2	2.37	0.58
46:DU:16:LYS:O	46:DU:20:LEU:HD23	2.03	0.58
49:DX:40:LYS:CG	49:DX:41:ASN:N	2.67	0.58
49:DX:83:VAL:O	49:DX:84:ALA:HB3	2.02	0.58
1:AA:352:C:O2'	1:AA:354:G:OP1	2.17	0.58
1:AA:390:C:O2'	1:AA:391:G:H5'	2.02	0.58
1:AA:708:C:O2'	1:AA:709:G:H5'	2.04	0.58
1:AA:724:G:C2	1:AA:725:G:C8	2.91	0.58
1:AA:953:G:H5'	1:AA:965:A:H61	1.68	0.58
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.03	0.58
2:AB:16:HIS:HB3	2:AB:210:SER:HA	1.84	0.58
2:AB:61:LEU:HA	2:AB:64:ARG:CG	2.33	0.58
2:AB:61:LEU:HA	2:AB:64:ARG:HG2	1.86	0.58
3:AC:35:GLU:HB3	3:AC:59:ARG:HH22	1.68	0.58
7:AG:108:ALA:O	7:AG:119:ARG:HD2	2.03	0.58
8:AH:25:ASP:OD2	8:AH:60:ARG:HG2	2.03	0.58
16:AP:20:VAL:HG23	16:AP:35:LYS:HA	1.84	0.58
20:AT:14:LYS:O	20:AT:18:GLN:HG3	2.02	0.58
20:AT:23:ARG:HA	20:AT:26:ASN:HD21	1.66	0.58
22:B0:32:ARG:O	22:B0:35:ASN:ND2	2.36	0.58
22:B0:43:THR:HG22	31:BA:2331:G:O3'	2.03	0.58
22:B0:43:THR:O	22:B0:45:PHE:N	2.36	0.58
24:B2:47:ASN:HA	24:B2:51:ARG:HB3	1.85	0.58
26:B4:5:ILE:O	36:BG:67:LYS:HG2	2.04	0.58
30:B8:61:LEU:HD13	31:BA:593:G:C4'	2.31	0.58
31:BA:191:A:C2'	31:BA:192:C:H5'	2.33	0.58
31:BA:639:U:H2'	31:BA:640:C:C6	2.38	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1115:G:C2'	31:BA:1116:C:H6	2.10	0.58
31:BA:1368:G:O2'	31:BA:1369:G:H5'	2.04	0.58
31:BA:1410:G:C6	31:BA:1411:C:N4	2.72	0.58
31:BA:2536:G:C6	31:BA:2537:U:C4	2.92	0.58
31:BA:2543:G:H2'	31:BA:2544:G:C8	2.38	0.58
31:BA:2633:G:H5'	31:BA:2811:G:HO2'	1.69	0.58
31:BA:2792:G:H2'	31:BA:2792:G:N3	2.17	0.58
34:BE:137:HIS:HB3	34:BE:138:PRO:CD	2.33	0.58
36:BG:172:LEU:HG	36:BG:173:LEU:CD2	2.32	0.58
38:BI:12:LEU:HD23	38:BI:12:LEU:H	1.68	0.58
39:BN:112:LEU:HD12	39:BN:112:LEU:C	2.23	0.58
40:BO:87:ILE:HG22	40:BO:88:ASN:N	2.19	0.58
41:BP:23:PRO:HB2	41:BP:33:ARG:CG	2.17	0.58
43:BR:10:LEU:HD13	43:BR:17:ARG:CZ	2.34	0.58
46:BU:90:VAL:O	46:BU:91:ASP:C	2.41	0.58
49:BX:40:LYS:CG	49:BX:41:ASN:N	2.65	0.58
1:CA:687:A:H1'	1:CA:688:G:OP2	2.02	0.58
1:CA:748:C:H1'	1:CA:749:C:OP2	2.04	0.58
1:CA:921:U:H1'	1:CA:922:G:N3	2.12	0.58
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.04	0.58
1:CA:1250:A:H61	1:CA:1354:C:H1'	1.69	0.58
1:CA:1271:G:H5'	1:CA:1314:C:H5'	1.85	0.58
4:CD:92:VAL:O	4:CD:96:LEU:HD22	2.03	0.58
5:CE:98:THR:HG22	5:CE:99:GLY:N	2.18	0.58
6:CF:94:GLN:NE2	18:CR:32:ARG:HH11	2.01	0.58
23:D1:41:ARG:HH11	23:D1:41:ARG:CG	2.09	0.58
31:DA:25:U:H2'	31:DA:26:G:C8	2.38	0.58
31:DA:251:A:C5'	41:DP:51:PHE:CZ	2.86	0.58
31:DA:309:G:H4'	50:DY:18:GLY:HA3	1.85	0.58
31:DA:559:G:H22	46:DU:49:HIS:CD2	2.21	0.58
31:DA:2376:A:C2	44:DS:94:TYR:CG	2.92	0.58
32:DB:31:C:H4'	36:DG:29:TRP:CH2	2.39	0.58
33:DD:35:LYS:HB3	33:DD:63:ARG:HA	1.85	0.58
34:DE:39:PRO:HD3	34:DE:45:THR:OG1	2.02	0.58
34:DE:132:HIS:CD2	34:DE:135:HIS:HE1	2.16	0.58
35:DF:36:VAL:O	35:DF:39:TRP:HB3	2.03	0.58
37:DH:95:ARG:HB2	37:DH:128:PRO:HB2	1.84	0.58
42:DQ:11:LYS:H	42:DQ:73:PRO:HG2	1.68	0.58
44:DS:88:ASP:O	44:DS:92:TYR:CD2	2.56	0.58
49:DX:57:LEU:HD12	49:DX:57:LEU:N	2.19	0.58
50:DY:19:LYS:HB3	50:DY:20:TYR:CD1	2.38	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:606:G:O2'	1:AA:632:A:N6	2.34	0.58
1:AA:710:G:H5''	6:AF:54:LYS:NZ	2.18	0.58
1:AA:724:G:N3	1:AA:725:G:C8	2.71	0.58
1:AA:779:C:O2'	1:AA:780:A:H5'	2.03	0.58
1:AA:840:C:H4'	1:AA:848:C:O2	2.03	0.58
1:AA:932:C:H4'	7:AG:4:ARG:NH2	2.18	0.58
1:AA:1293:G:HO2'	1:AA:1294:G:H8	1.51	0.58
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.03	0.58
2:AB:29:ALA:C	2:AB:31:TYR:H	2.06	0.58
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.06	0.58
8:AH:109:ILE:HG23	8:AH:137:VAL:HB	1.84	0.58
10:AJ:40:LEU:HD21	10:AJ:69:ASN:HB3	1.85	0.58
12:AL:60:LEU:HD21	12:AL:66:VAL:CG2	2.29	0.58
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.39	0.58
16:AP:50:LYS:HD3	16:AP:50:LYS:C	2.24	0.58
28:B6:14:THR:O	28:B6:49:HIS:HA	2.03	0.58
28:B6:25:LYS:HE2	28:B6:27:LYS:HZ1	1.67	0.58
29:B7:10:ARG:HG3	31:BA:125:G:C6	2.39	0.58
31:BA:64:A:C2	31:BA:65:C:C2	2.92	0.58
31:BA:92:A:H2'	31:BA:93:G:H8	1.67	0.58
31:BA:267:C:H2'	31:BA:268:C:C6	2.38	0.58
31:BA:271(M):G:H2'	31:BA:271(N):U:C5'	2.33	0.58
31:BA:272(E):G:C6	31:BA:272(F):C:C4	2.91	0.58
31:BA:280:C:H2'	31:BA:281:G:O5'	2.03	0.58
31:BA:814:C:H5	41:BP:27:HIS:CE1	2.21	0.58
31:BA:1198:U:H2'	31:BA:1199:U:C6	2.39	0.58
33:BD:35:LYS:HZ3	33:BD:104:TYR:HB2	1.65	0.58
34:BE:91:VAL:HG13	34:BE:95:ILE:CD1	2.32	0.58
34:BE:170:LEU:HD12	34:BE:170:LEU:N	2.18	0.58
44:BS:59:LYS:HB2	44:BS:65:VAL:HG21	1.86	0.58
45:BT:45:PHE:CE1	45:BT:74:ARG:HG3	2.38	0.58
45:BT:65:LYS:HG3	45:BT:66:VAL:N	2.19	0.58
47:BV:33:VAL:HA	47:BV:63:GLY:HA2	1.84	0.58
49:BX:8:ILE:HD11	49:BX:43:VAL:HA	1.85	0.58
1:CA:106:C:O2'	1:CA:379:C:H5''	2.03	0.58
1:CA:828:A:H5''	1:CA:859:A:N1	2.18	0.58
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.33	0.58
1:CA:1148:U:H4'	9:CI:14:VAL:HG11	1.83	0.58
9:CI:10:ARG:HD3	9:CI:75:ASP:HB3	1.85	0.58
10:CJ:7:LYS:HD3	10:CJ:71:LEU:CD1	2.32	0.58
13:CM:81:LEU:HB3	13:CM:89:GLY:CA	2.32	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:20:ARG:HD3	23:D1:41:ARG:HD3	1.85	0.58
29:D7:34:ARG:HH11	29:D7:34:ARG:HB3	1.68	0.58
30:D8:51:ALA:N	30:D8:53:PRO:HD2	2.19	0.58
31:DA:892:G:H2'	31:DA:893:C:O4'	2.04	0.58
31:DA:1299:G:H5''	31:DA:1300:U:O5'	2.04	0.58
31:DA:1528:A:C8	31:DA:1528(A):A:C5	2.91	0.58
31:DA:1680:U:H2'	31:DA:1681:G:O4'	2.04	0.58
31:DA:2275:C:C6	31:DA:2275:C:H5''	2.38	0.58
31:DA:2595:G:N2	31:DA:2599:G:C4	2.71	0.58
31:DA:2859:G:C8	31:DA:2859:G:C3'	2.87	0.58
40:DO:78:ARG:HE	45:DT:103:ARG:HH12	1.52	0.58
42:DQ:20:ALA:O	42:DQ:23:GLY:N	2.36	0.58
46:DU:92:ARG:CB	47:DV:11:GLN:HE21	2.14	0.58
49:DX:41:ASN:HA	49:DX:44:GLU:CG	2.33	0.58
1:AA:37:U:O2'	1:AA:38:G:H5'	2.03	0.58
1:AA:258:G:H2'	1:AA:259:G:C8	2.38	0.58
1:AA:853:G:H2'	1:AA:854:G:C8	2.38	0.58
1:AA:1495:U:C2	31:BA:1912:A:H2	2.22	0.58
5:AE:29:GLY:HA2	5:AE:46:GLY:O	2.04	0.58
8:AH:91:ARG:CG	17:AQ:34:LYS:H	2.16	0.58
31:BA:41:C:H2'	31:BA:42:G:O4'	2.03	0.58
31:BA:214:G:H1'	31:BA:216:A:O2'	2.03	0.58
31:BA:309:G:C5'	50:BY:18:GLY:HA3	2.33	0.58
31:BA:1722:A:C6	31:BA:1741:A:N1	2.71	0.58
31:BA:1722:A:C4	31:BA:1741:A:N6	2.71	0.58
31:BA:1861:G:C2	31:BA:1862:G:C8	2.91	0.58
31:BA:2265:U:H4'	42:BQ:13:GLN:NE2	2.18	0.58
31:BA:2396:G:C2'	31:BA:2397:G:H5'	2.34	0.58
31:BA:2757:A:N1	37:BH:67:LEU:HD22	2.19	0.58
33:BD:44:ASN:OD1	33:BD:44:ASN:N	2.33	0.58
35:BF:53:THR:C	35:BF:55:GLY:H	2.07	0.58
35:BF:132:VAL:C	35:BF:134:GLY:H	2.06	0.58
36:BG:94:LEU:HD11	36:BG:102:PHE:CD1	2.39	0.58
36:BG:94:LEU:O	36:BG:99:MET:HB2	2.03	0.58
38:BI:57:ARG:NH1	38:BI:57:ARG:HB3	2.17	0.58
41:BP:100:LEU:O	41:BP:103:ALA:N	2.37	0.58
51:BZ:5:LEU:HD13	51:BZ:43:GLU:HB3	1.85	0.58
1:CA:559:A:C5'	1:CA:560:U:H3'	2.33	0.58
1:CA:766:A:C2'	1:CA:767:A:H5'	2.34	0.58
1:CA:1058:G:C6	1:CA:1059:C:N3	2.72	0.58
1:CA:1470:G:C2'	1:CA:1471:G:H5'	2.33	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1490:C:H2'	1:CA:1491:G:O4'	2.03	0.58
1:CA:1504:G:OP1	1:CA:1507:A:H4'	2.02	0.58
3:CC:101:LEU:HD23	3:CC:102:ASN:O	2.03	0.58
6:CF:19:LEU:HD21	6:CF:59:TYR:CD2	2.38	0.58
12:CL:102:ARG:CD	12:CL:108:ALA:O	2.51	0.58
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.84	0.58
23:D1:19:GLN:CG	23:D1:44:PRO:HG3	2.30	0.58
31:DA:71:A:C2	49:DX:31:HIS:HE1	2.21	0.58
31:DA:142:A:H8	31:DA:1408:C:H1'	1.63	0.58
31:DA:286:C:C4	31:DA:356:G:C6	2.92	0.58
31:DA:309:G:C5'	50:DY:18:GLY:HA3	2.34	0.58
31:DA:607:U:C2	31:DA:621:A:N1	2.71	0.58
31:DA:826:U:H2'	31:DA:828:U:O4'	2.04	0.58
31:DA:1448:G:H21	31:DA:1528(A):A:H2	1.51	0.58
31:DA:1598:C:H2'	31:DA:1599:C:H6	1.69	0.58
31:DA:1796:U:H4'	33:DD:256:GLY:N	2.17	0.58
31:DA:1847:A:H4'	31:DA:1848:A:OP2	2.03	0.58
31:DA:2100:G:C4	31:DA:2190:G:N2	2.72	0.58
31:DA:2205:C:O2	31:DA:2220:G:C2	2.57	0.58
31:DA:2842:G:H2'	31:DA:2843:G:C8	2.38	0.58
32:DB:50:G:OP1	44:DS:63:THR:HG23	2.02	0.58
34:DE:16:ARG:O	34:DE:18:ASP:N	2.36	0.58
37:DH:109:PHE:CE1	37:DH:152:ARG:CZ	2.86	0.58
38:DI:43:ASN:ND2	38:DI:43:ASN:H	2.01	0.58
39:DN:57:ALA:C	39:DN:58:ASP:O	2.39	0.58
42:DQ:141:GLN:HB2	51:DZ:98:MET:HB2	1.85	0.58
49:DX:84:ALA:O	49:DX:86:GLY:N	2.37	0.58
1:AA:791:G:C5	1:AA:792:A:N7	2.72	0.58
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.19	0.58
1:AA:1250:A:H61	1:AA:1354:C:H1'	1.68	0.58
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.86	0.58
2:AB:178:ARG:HH22	8:AH:68:ARG:NH2	2.00	0.58
4:AD:108:LEU:O	4:AD:110:PHE:N	2.34	0.58
5:AE:57:LYS:O	5:AE:61:TYR:HD2	1.87	0.58
6:AF:52:ILE:CD1	6:AF:87:ARG:HH12	2.16	0.58
6:AF:94:GLN:NE2	18:AR:32:ARG:HH11	2.01	0.58
7:AG:85:TYR:CE1	7:AG:154:TYR:HE1	2.22	0.58
18:AR:35:ARG:O	18:AR:37:VAL:N	2.35	0.58
31:BA:935:C:O2'	31:BA:936:C:H5'	2.03	0.58
31:BA:1332:G:H22	31:BA:1610:A:H8	1.52	0.58
31:BA:1485:G:H21	31:BA:1505:C:N4	2.01	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1680:U:H2'	31:BA:1681:G:O4'	2.04	0.58
31:BA:1778:U:H2'	31:BA:1784:A:C6	2.38	0.58
31:BA:1915:U:H2'	31:BA:1916:A:H8	1.68	0.58
35:BF:65:TRP:O	35:BF:67:GLN:N	2.36	0.58
37:BH:70:THR:HG22	37:BH:74:ASN:ND2	2.18	0.58
38:BI:52:ARG:O	38:BI:56:LYS:HG2	2.03	0.58
41:BP:88:LEU:O	41:BP:90:ARG:N	2.37	0.58
42:BQ:52:VAL:HA	42:BQ:55:VAL:HG13	1.86	0.58
45:BT:22:PHE:CZ	45:BT:85:LYS:HE3	2.39	0.58
49:BX:21:PHE:HD2	49:BX:90:GLU:HA	1.69	0.58
50:BY:96:ILE:HB	50:BY:99:CYS:HB3	1.86	0.58
1:CA:299:G:C6	1:CA:300:A:C6	2.91	0.58
1:CA:343:U:N3	1:CA:347:G:N1	2.51	0.58
1:CA:1216:G:H5''	14:CN:5:ALA:CB	2.34	0.58
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.04	0.58
9:CI:77:ILE:O	9:CI:81:ILE:HG12	2.04	0.58
13:CM:25:ILE:CD1	13:CM:66:LEU:HD23	2.33	0.58
19:CS:51:VAL:HG21	19:CS:71:LEU:HB3	1.85	0.58
30:D8:61:LEU:HD22	31:DA:593:G:O3'	2.04	0.58
31:DA:409:C:H42	31:DA:418:G:H1	1.51	0.58
31:DA:783:A:H2'	31:DA:785:G:OP1	2.04	0.58
31:DA:910:A:N7	42:DQ:13:GLN:HB2	2.19	0.58
31:DA:1341:U:O4'	49:DX:57:LEU:HD11	2.04	0.58
31:DA:1722:A:C6	31:DA:1741:A:N1	2.71	0.58
31:DA:1799:G:P	31:DA:1799:G:H3'	2.44	0.58
31:DA:2807:G:H1	31:DA:2892:A:H62	1.52	0.58
32:DB:66:A:C6	32:DB:109:C:C6	2.91	0.58
34:DE:103:ASP:OD1	34:DE:168:MET:HB3	2.03	0.58
35:DF:164:ARG:HH11	35:DF:164:ARG:HG2	1.67	0.58
36:DG:114:ILE:C	36:DG:115:ARG:HG3	2.24	0.58
39:DN:115:ARG:HG3	39:DN:115:ARG:NH1	2.19	0.58
41:DP:30:THR:CG2	41:DP:31:ALA:N	2.67	0.58
48:DW:1:MET:HE2	48:DW:2:GLU:H	1.68	0.58
48:DW:18:ARG:HG2	48:DW:18:ARG:NH1	2.13	0.58
49:DX:63:LYS:O	49:DX:68:ARG:HA	2.04	0.58
1:AA:14:U:O2	1:AA:17:U:H5	1.86	0.58
1:AA:27:G:H2'	1:AA:28:G:H8	1.69	0.58
1:AA:115:G:H4'	1:AA:116:A:O5'	2.04	0.58
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.04	0.58
1:AA:509:A:O2'	1:AA:510:A:O5'	2.22	0.58
1:AA:963:G:H21	10:AJ:55:LYS:CE	2.16	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.34	0.58
1:AA:1160:G:C2	1:AA:1161:C:C6	2.91	0.58
4:AD:74:GLN:O	4:AD:78:LEU:HG	2.03	0.58
14:AN:51:GLY:C	14:AN:53:LEU:H	2.07	0.58
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.34	0.58
31:BA:494:G:H2'	31:BA:495:G:H8	1.69	0.58
31:BA:538:G:OP1	39:BN:5:VAL:HG21	2.04	0.58
31:BA:542:C:H42	31:BA:543:C:H42	1.51	0.58
31:BA:1657:C:H2'	31:BA:1658:C:H6	1.68	0.58
31:BA:1816:G:H8	33:BD:62:TYR:CZ	2.21	0.58
31:BA:1887:C:H2'	31:BA:1888:G:H5''	1.84	0.58
31:BA:1991:U:H2'	31:BA:1992:G:H5''	1.86	0.58
31:BA:2275:C:C6	31:BA:2275:C:H5''	2.38	0.58
31:BA:2552:U:C2	31:BA:2554:U:C5'	2.87	0.58
31:BA:2564:A:OP1	31:BA:2648:C:H4'	2.04	0.58
36:BG:22:ARG:HB3	36:BG:23:PHE:CD1	2.38	0.58
39:BN:14:VAL:HG12	39:BN:52:VAL:HA	1.86	0.58
39:BN:66:LYS:HB3	39:BN:70:LYS:CB	2.34	0.58
41:BP:101:VAL:C	41:BP:103:ALA:N	2.57	0.58
41:BP:140:ALA:CB	25:D3:1:MET:HG2	2.32	0.58
46:BU:83:LEU:HD12	46:BU:113:ALA:HB2	1.86	0.58
46:BU:88:ILE:C	46:BU:90:VAL:N	2.55	0.58
50:BY:28:LYS:CD	50:BY:28:LYS:N	2.65	0.58
51:BZ:4:ARG:HG2	51:BZ:58:VAL:HB	1.84	0.58
1:CA:35:G:H2'	1:CA:36:C:C6	2.39	0.58
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.86	0.58
1:CA:980:C:H5'	1:CA:981:U:H5	1.68	0.58
5:CE:100:VAL:HG13	5:CE:118:ILE:HG22	1.86	0.58
7:CG:31:MET:SD	7:CG:34:GLY:HA2	2.44	0.58
7:CG:108:ALA:O	7:CG:119:ARG:HD2	2.04	0.58
8:CH:36:LEU:C	8:CH:38:ILE:H	2.07	0.58
28:D6:11:LEU:O	28:D6:23:THR:HA	2.04	0.58
30:D8:59:LYS:HD3	41:DP:50:ARG:CB	2.32	0.58
31:DA:11:G:O2'	31:DA:12:U:H5'	2.04	0.58
31:DA:1899:G:H22	31:DA:1902:C:H41	0.68	0.58
31:DA:2476:A:C2	31:DA:2477:C:C6	2.91	0.58
32:DB:24:G:N1	32:DB:56:G:N2	2.51	0.58
32:DB:66:A:H61	32:DB:108:U:H2'	1.69	0.58
33:DD:186:HIS:CD2	33:DD:187:GLY:N	2.72	0.58
33:DD:228:PRO:HD3	33:DD:235:GLY:CA	2.33	0.58
34:DE:118:LYS:O	34:DE:160:TYR:CE1	2.57	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:17:VAL:HG21	37:DH:50:VAL:HG21	1.86	0.58
39:DN:78:TYR:H	39:DN:79:PRO:CD	2.17	0.58
45:DT:88:ILE:CG2	45:DT:89:VAL:N	2.63	0.58
47:DV:67:GLY:O	47:DV:68:LYS:C	2.41	0.58
50:DY:28:LYS:C	50:DY:29:GLU:OE1	2.42	0.58
50:DY:81:LYS:HD3	50:DY:97:ARG:HG3	1.86	0.58
1:AA:611:A:H61	1:AA:629:G:H1	1.51	0.58
1:AA:940:C:H2'	1:AA:941:G:H8	1.69	0.58
1:AA:977:A:H2'	1:AA:978:A:H5'	1.86	0.58
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.03	0.58
4:AD:176:LEU:HG	4:AD:178:VAL:HG22	1.85	0.58
12:AL:105:TYR:C	12:AL:107:ALA:H	2.07	0.58
13:AM:46:LYS:HG3	13:AM:47:ASP:N	2.18	0.58
16:AP:39:TYR:C	16:AP:39:TYR:CD1	2.76	0.58
21:AU:9:ARG:O	21:AU:13:ILE:HG13	2.04	0.58
28:B6:48:VAL:O	28:B6:49:HIS:CB	2.52	0.58
31:BA:58:G:H1	31:BA:69:C:H42	1.51	0.58
31:BA:271(C):C:H2'	31:BA:271(D):G:C8	2.39	0.58
31:BA:473:G:C2'	31:BA:474:G:O5'	2.51	0.58
31:BA:624:C:O2'	31:BA:657:U:H5'	2.02	0.58
31:BA:1142(A):A:O2'	31:BA:1143:A:H3'	2.04	0.58
31:BA:1797:C:H2'	31:BA:1798:U:H5'	1.85	0.58
31:BA:2019:A:O4'	46:BU:34:LYS:HD2	2.04	0.58
31:BA:2396:G:HO2'	31:BA:2397:G:H5'	1.69	0.58
32:BB:38:C:C4'	44:BS:95:HIS:CE1	2.87	0.58
36:BG:5:VAL:HG11	36:BG:101:ILE:HB	1.86	0.58
36:BG:114:ILE:C	36:BG:115:ARG:HG3	2.25	0.58
37:BH:153:LYS:HE2	37:BH:154:PRO:C	2.24	0.58
41:BP:124:LYS:HA	41:BP:143:GLY:CA	2.34	0.58
44:BS:67:ARG:HD3	44:BS:101:LEU:HD23	1.86	0.58
47:BV:19:LYS:HB3	47:BV:96:ILE:O	2.03	0.58
47:BV:25:LEU:C	47:BV:27:ALA:H	2.08	0.58
49:BX:89:ILE:HA	49:BX:92:LEU:HD12	1.86	0.58
50:BY:97:ARG:HG3	50:BY:97:ARG:O	2.04	0.58
1:CA:84:U:H5	1:CA:88:A:C4	2.21	0.58
1:CA:294:U:H2'	1:CA:295:C:C6	2.39	0.58
1:CA:570:G:H2'	1:CA:571:U:C6	2.39	0.58
1:CA:883:C:C2'	1:CA:884:U:H5'	2.34	0.58
1:CA:922:G:C1'	5:CE:19:MET:H	2.17	0.58
1:CA:1342:C:H1'	9:CI:124:GLN:NE2	2.15	0.58
4:CD:173:TRP:HA	4:CD:187:ARG:NH1	2.19	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:10:MET:CB	5:CE:32:VAL:HG22	2.33	0.58
15:CO:63:ARG:HG2	15:CO:67:LEU:CD1	2.34	0.58
20:CT:56:MET:O	20:CT:59:ALA:HB3	2.04	0.58
30:D8:3:LYS:HE3	31:DA:242:G:O5'	2.04	0.58
31:DA:429:A:H2'	31:DA:430:G:C8	2.39	0.58
31:DA:646:A:H2'	31:DA:647:G:C5'	2.33	0.58
31:DA:764:A:C6	31:DA:781:A:C2	2.92	0.58
31:DA:1190:G:C4'	41:DP:35:HIS:HB3	2.30	0.58
31:DA:2092:U:H5	31:DA:2226:C:OP1	1.87	0.58
31:DA:2808:U:H2'	31:DA:2809:A:H5'	1.84	0.58
32:DB:39:A:H5'	32:DB:40:U:OP2	2.04	0.58
32:DB:57:A:C8	36:DG:27:ASN:HB3	2.39	0.58
37:DH:44:VAL:HG12	37:DH:45:VAL:N	2.16	0.58
40:DO:23:ARG:HD2	40:DO:24:VAL:H	1.69	0.58
50:DY:38:ILE:HG22	50:DY:39:VAL:N	2.18	0.58
51:DZ:150:LEU:N	51:DZ:150:LEU:HD13	2.18	0.58
1:AA:191:G:N3	20:AT:103:GLY:O	2.36	0.57
1:AA:760:G:H2'	1:AA:761:G:H5'	1.86	0.57
1:AA:1113:C:H2'	1:AA:1114:C:C6	2.38	0.57
1:AA:1228:C:H2'	1:AA:1229:A:C8	2.39	0.57
1:AA:1483:A:O2'	31:BA:1947:C:C2'	2.52	0.57
8:AH:87:SER:HA	8:AH:93:VAL:CG2	2.33	0.57
29:B7:47:ARG:C	29:B7:48:LYS:HD3	2.24	0.57
31:BA:514:A:H2'	31:BA:515:A:C8	2.38	0.57
31:BA:626:U:H5''	31:BA:627:A:H5'	1.86	0.57
31:BA:743:G:O2'	31:BA:744:G:H5'	2.04	0.57
31:BA:1241:A:H2'	31:BA:1242:A:O5'	2.04	0.57
31:BA:1321:A:H2'	31:BA:1322:A:O4'	2.04	0.57
31:BA:1441:G:H2'	31:BA:1442:G:H8	1.68	0.57
31:BA:1701:A:H5'''	31:BA:1702:G:OP2	2.04	0.57
31:BA:1717:G:C2	31:BA:1718:G:C8	2.92	0.57
31:BA:1796:U:H4'	33:BD:256:GLY:N	2.18	0.57
31:BA:2308:G:H3'	31:BA:2310:A:OP2	2.04	0.57
31:BA:2880:C:O2'	43:BR:90:ARG:HD3	2.03	0.57
34:BE:116:VAL:HG21	34:BE:122:PHE:CD2	2.38	0.57
37:BH:18:GLU:HB2	37:BH:25:LYS:HB2	1.86	0.57
39:BN:78:TYR:HD1	39:BN:79:PRO:N	2.02	0.57
40:BO:13:ASN:ND2	40:BO:97:ARG:H	2.01	0.57
42:BQ:6:ARG:O	42:BQ:6:ARG:HG3	2.04	0.57
44:BS:19:LYS:O	44:BS:19:LYS:HG2	2.03	0.57
44:BS:88:ASP:O	44:BS:92:TYR:CD2	2.57	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:28:VAL:CG2	45:BT:46:GLU:HG3	2.34	0.57
47:BV:5:VAL:HG21	47:BV:36:PRO:HG2	1.86	0.57
50:BY:99:CYS:SG	50:BY:99:CYS:O	2.62	0.57
1:CA:16:A:C2	1:CA:920:U:O2	2.56	0.57
1:CA:189(C):C:H2'	1:CA:189(D):C:O4'	2.04	0.57
1:CA:270:A:C5	1:CA:271:C:C4	2.91	0.57
1:CA:503:C:H2'	1:CA:504:C:C6	2.39	0.57
1:CA:520:A:H2	1:CA:536:C:O2	1.86	0.57
1:CA:542:G:OP1	4:CD:10:ARG:NH2	2.37	0.57
1:CA:581:G:C2	1:CA:582:U:C4	2.91	0.57
1:CA:584:G:H1	1:CA:757:U:H3	1.52	0.57
1:CA:691:G:N7	11:CK:26:ASN:HB3	2.19	0.57
1:CA:951:G:C6	1:CA:1231:G:C6	2.92	0.57
1:CA:1064:G:C8	1:CA:1066:C:C2	2.92	0.57
1:CA:1128:C:H5'	9:CI:16:ARG:NH1	2.18	0.57
2:CB:178:ARG:HH22	8:CH:68:ARG:NH2	2.00	0.57
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.62	0.57
4:CD:99:SER:O	4:CD:140:VAL:HG23	2.03	0.57
9:CI:55:ALA:HB1	9:CI:59:PHE:HE1	1.68	0.57
11:CK:65:ALA:O	11:CK:68:ALA:HB3	2.04	0.57
17:CQ:65:ILE:HD12	17:CQ:65:ILE:H	1.68	0.57
22:D0:26:TYR:HE2	31:DA:857:C:H1'	1.68	0.57
24:D2:14:ARG:NH1	24:D2:57:ILE:CG2	2.67	0.57
29:D7:5:TRP:CH2	31:DA:686:G:N7	2.72	0.57
31:DA:68:G:C5	31:DA:69:C:C5	2.91	0.57
31:DA:194:G:H2'	31:DA:195:A:O4'	2.04	0.57
31:DA:2061:G:C2	31:DA:2063:C:C4	2.92	0.57
31:DA:2098:U:H2'	31:DA:2099:U:H6	1.68	0.57
31:DA:2702:U:O2'	31:DA:2703:C:C6	2.52	0.57
34:DE:61:ARG:N	34:DE:62:PRO:HD2	2.19	0.57
36:DG:52:ILE:HG22	36:DG:54:GLU:HG2	1.86	0.57
39:DN:78:TYR:N	39:DN:79:PRO:CD	2.67	0.57
40:DO:39:ILE:O	40:DO:39:ILE:HG12	2.03	0.57
45:DT:57:PHE:C	45:DT:59:THR:H	2.06	0.57
46:DU:76:TYR:C	46:DU:76:TYR:CD2	2.76	0.57
46:DU:88:ILE:C	46:DU:90:VAL:N	2.57	0.57
47:DV:36:PRO:HD2	47:DV:60:GLU:O	2.04	0.57
47:DV:62:LEU:HD22	47:DV:98:GLU:HB2	1.86	0.57
47:DV:66:ARG:HE	47:DV:94:LEU:CG	2.16	0.57
49:DX:84:ALA:C	49:DX:86:GLY:H	2.07	0.57
50:DY:8:LYS:NZ	50:DY:72:VAL:HG23	2.18	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:29:G:O2'	1:AA:30:U:H5'	2.04	0.57
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.19	0.57
11:AK:65:ALA:O	11:AK:68:ALA:HB3	2.04	0.57
13:AM:25:ILE:CD1	13:AM:66:LEU:HD23	2.33	0.57
13:AM:37:THR:HG22	13:AM:59:TYR:HB3	1.85	0.57
15:AO:62:GLN:HA	15:AO:65:ARG:HH11	1.68	0.57
22:B0:45:PHE:O	22:B0:59:LEU:HD11	2.04	0.57
28:B6:20:ASN:ND2	28:B6:21:TYR:N	2.49	0.57
31:BA:34:C:H3'	31:BA:34:C:C6	2.37	0.57
31:BA:58:G:C2'	31:BA:59:U:O5'	2.52	0.57
31:BA:204:A:OP1	31:BA:204:A:H8	1.86	0.57
31:BA:287:C:H2'	31:BA:288:C:C5'	2.34	0.57
31:BA:778:G:C5	31:BA:779:U:C4	2.93	0.57
31:BA:993:G:N2	47:BV:91:TYR:OH	2.37	0.57
31:BA:1722:A:N6	31:BA:1741:A:C2	2.71	0.57
31:BA:2058:A:N1	55:BA:3362:TEL:H572	2.18	0.57
31:BA:2222:G:H5''	33:BD:186:HIS:CE1	2.39	0.57
31:BA:2689:U:P	31:BA:2719:G:H22	2.27	0.57
37:BH:70:THR:O	37:BH:72:ILE:N	2.37	0.57
45:BT:17:THR:O	45:BT:18:ASP:HB3	2.03	0.57
45:BT:20:PRO:O	45:BT:22:PHE:HD2	1.87	0.57
46:BU:65:ILE:HG12	46:BU:96:ALA:HB3	1.86	0.57
1:CA:64:G:H4'	1:CA:65:U:C5'	2.34	0.57
1:CA:606:G:O2'	1:CA:632:A:N6	2.35	0.57
1:CA:682:G:H1	1:CA:708:C:H42	1.52	0.57
1:CA:737:A:H2'	1:CA:738:C:H6	1.63	0.57
1:CA:833:U:H2'	1:CA:834:C:C6	2.38	0.57
2:CB:219:VAL:HA	2:CB:222:ILE:HD12	1.86	0.57
28:D6:42:TRP:CE2	31:DA:643:A:OP1	2.57	0.57
31:DA:51:G:H4'	31:DA:52:A:H5'	1.85	0.57
31:DA:260:G:N2	31:DA:261:G:H1'	2.19	0.57
31:DA:280:C:H2'	31:DA:281:G:O5'	2.03	0.57
31:DA:994:C:O2	47:DV:10:LYS:NZ	2.37	0.57
31:DA:1416:G:O2'	31:DA:1417:C:OP2	2.18	0.57
31:DA:1669:A:H5''	31:DA:1670:C:OP2	2.04	0.57
31:DA:1836:C:C2'	31:DA:1837:C:H5'	2.34	0.57
34:DE:49:LEU:HD23	34:DE:81:ILE:HG12	1.86	0.57
35:DF:31:HIS:CG	41:DP:13:ASN:HD22	2.21	0.57
39:DN:42:TRP:HB3	46:DU:64:ARG:HH12	1.64	0.57
39:DN:75:TYR:N	39:DN:75:TYR:HD1	2.02	0.57
43:DR:72:ASP:HB3	43:DR:75:LEU:CB	2.34	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DS:38:GLN:HG2	44:DS:47:THR:CG2	2.34	0.57
47:DV:66:ARG:CD	47:DV:67:GLY:N	2.68	0.57
48:DW:75:TYR:HE1	48:DW:104:THR:CG2	2.17	0.57
50:DY:96:ILE:CD1	50:DY:99:CYS:SG	2.92	0.57
1:AA:114:U:O2'	1:AA:115:G:H5'	2.04	0.57
1:AA:302:G:N3	1:AA:556:C:H4'	2.20	0.57
1:AA:658:G:H1'	15:AO:22:THR:HB	1.86	0.57
1:AA:735:C:H1'	18:AR:75:ILE:HD11	1.85	0.57
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.68	0.57
3:AC:186:PHE:CE2	3:AC:188:LEU:HD22	2.40	0.57
4:AD:36:ARG:HB3	4:AD:38:TYR:HE1	1.68	0.57
9:AI:82:ALA:HB1	9:AI:96:LEU:CD1	2.34	0.57
29:B7:5:TRP:CH2	31:BA:464:U:H4'	2.39	0.57
31:BA:53:A:H61	31:BA:117:G:C2'	2.17	0.57
31:BA:128:C:H3'	31:BA:128:C:C6	2.39	0.57
31:BA:271(Q):G:N3	31:BA:271(R):G:C8	2.73	0.57
31:BA:725:G:C6	31:BA:726:G:N1	2.72	0.57
31:BA:838:C:O2'	31:BA:839:U:H5'	2.04	0.57
31:BA:921:G:H2'	31:BA:922:U:C6	2.39	0.57
31:BA:1349:A:N6	31:BA:1598:C:N4	2.52	0.57
31:BA:1563:G:H2'	31:BA:1564:C:H6	1.69	0.57
31:BA:1686:C:H2'	31:BA:1687:G:H5'	1.86	0.57
31:BA:2098:U:H2'	31:BA:2099:U:H6	1.70	0.57
31:BA:2496:C:OP1	42:BQ:81:VAL:CG1	2.52	0.57
31:BA:2612:C:H2'	31:BA:2613:U:H5'	1.86	0.57
32:BB:21:G:C8	32:BB:22:U:C1'	2.88	0.57
32:BB:73:A:C4	32:BB:105:A:C2	2.92	0.57
36:BG:11:TYR:HD2	36:BG:12:TYR:CE1	2.23	0.57
39:BN:68:GLU:HG3	39:BN:88:GLU:OE1	2.05	0.57
41:BP:16:ARG:HG2	41:BP:18:ARG:N	2.17	0.57
49:BX:73:ARG:H	49:BX:74:PRO:HD3	1.68	0.57
1:CA:266:G:H5''	1:CA:268:C:N4	2.19	0.57
1:CA:316:G:OP2	1:CA:351:G:O2'	2.21	0.57
1:CA:667:G:H4'	15:CO:51:HIS:CE1	2.40	0.57
1:CA:922:G:C4'	5:CE:20:GLN:HA	2.26	0.57
4:CD:38:TYR:CD2	4:CD:45:GLN:HB3	2.39	0.57
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.85	0.57
13:CM:87:TYR:C	13:CM:89:GLY:H	2.08	0.57
21:CU:9:ARG:O	21:CU:13:ILE:HG13	2.04	0.57
24:D2:46:GLN:HG2	24:D2:47:ASN:N	2.16	0.57
27:D5:4:HIS:HD2	31:DA:2056:G:H1	1.51	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:19:ARG:HG3	28:D6:20:ASN:H	1.68	0.57
30:D8:13:ARG:HD2	41:DP:61:ARG:HD3	1.85	0.57
31:DA:271(P):C:H2'	31:DA:271(P):C:O2	2.04	0.57
31:DA:389:G:N1	41:DP:71:VAL:HB	2.18	0.57
31:DA:394:A:C6	31:DA:395:U:C4	2.91	0.57
31:DA:479:A:H1'	31:DA:481:G:H5''	1.84	0.57
31:DA:1300:U:H5''	31:DA:1301:A:H5''	1.86	0.57
31:DA:1321:A:H2'	31:DA:1322:A:O4'	2.04	0.57
31:DA:1382:G:O2'	31:DA:1383:C:H5'	2.03	0.57
31:DA:1833:U:O2	31:DA:1969:A:H2	1.86	0.57
31:DA:1949:G:C2	31:DA:1958:C:O2	2.57	0.57
31:DA:2313:C:O2'	31:DA:2314:C:H5'	2.04	0.57
31:DA:2385:C:C2'	31:DA:2386:C:H5'	2.34	0.57
31:DA:2688:U:C5	31:DA:2720:U:OP2	2.55	0.57
31:DA:2769:C:H2'	31:DA:2770:G:O5'	2.03	0.57
33:DD:186:HIS:HD2	33:DD:187:GLY:N	2.01	0.57
36:DG:76:SER:CB	36:DG:84:LYS:H	2.16	0.57
39:DN:65:LYS:HA	39:DN:65:LYS:HE2	1.85	0.57
42:DQ:27:VAL:HG21	42:DQ:134:ARG:HA	1.86	0.57
44:DS:26:LEU:HA	44:DS:39:ILE:HD13	1.85	0.57
46:DU:43:GLY:HA2	47:DV:76:LYS:HE3	1.87	0.57
46:DU:90:VAL:HG12	46:DU:91:ASP:N	2.18	0.57
49:DX:9:LEU:HD12	49:DX:30:VAL:C	2.24	0.57
49:DX:24:GLY:HA3	49:DX:80:ILE:CG1	2.35	0.57
1:AA:52:G:H2'	1:AA:53:A:H8	1.69	0.57
1:AA:60:A:H4'	1:AA:61:G:O5'	2.05	0.57
1:AA:405:U:H3'	1:AA:406:G:H5'	1.85	0.57
1:AA:575:G:O2'	1:AA:821:G:H5'	2.04	0.57
1:AA:828:A:H5''	1:AA:859:A:N1	2.19	0.57
1:AA:986:A:H1'	19:AS:54:GLY:O	2.05	0.57
1:AA:1210:C:H5'	1:AA:1214:C:N4	2.20	0.57
2:AB:87:ARG:NH2	2:AB:233:SER:HB3	2.19	0.57
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.05	0.57
13:AM:87:TYR:C	13:AM:89:GLY:H	2.07	0.57
27:B5:16:ARG:HH12	27:B5:17:ASP:CG	2.08	0.57
31:BA:286:C:C4	31:BA:356:G:C6	2.92	0.57
31:BA:547:A:O2'	31:BA:548:A:OP2	2.20	0.57
31:BA:768:G:O2'	31:BA:1379:A:N6	2.37	0.57
31:BA:814:C:H5	41:BP:27:HIS:NE2	2.02	0.57
31:BA:943:U:OP2	41:BP:38:GLN:OE1	2.22	0.57
31:BA:995:C:C2	39:BN:4:TYR:OH	2.51	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1290:C:H2'	31:BA:1291:C:H6	1.69	0.57
31:BA:1383:C:O5'	31:BA:1383:C:H6	1.86	0.57
31:BA:2019:A:H2'	31:BA:2020:A:O5'	2.04	0.57
31:BA:2536:G:C5	31:BA:2537:U:C5	2.93	0.57
31:BA:2575:C:H2'	31:BA:2578:G:O6	2.04	0.57
31:BA:2659:G:H1'	31:BA:2663:G:H22	1.67	0.57
55:BA:3362:TEL:C10	55:BA:3362:TEL:H81	2.34	0.57
37:BH:74:ASN:HB3	37:BH:138:LYS:HD2	1.87	0.57
38:BI:29:TYR:C	38:BI:32:PRO:HD2	2.25	0.57
39:BN:65:LYS:HA	39:BN:65:LYS:HE2	1.85	0.57
41:BP:26:GLY:HA2	41:BP:30:THR:HG21	1.86	0.57
41:BP:147:LEU:C	41:BP:148:LEU:HD13	2.24	0.57
47:BV:43:GLU:HA	47:BV:48:GLY:HA3	1.85	0.57
47:BV:47:VAL:HG13	47:BV:48:GLY:N	2.17	0.57
1:CA:35:G:C6	1:CA:36:C:N4	2.71	0.57
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.85	0.57
1:CA:1486:G:H2'	1:CA:1487:G:C1'	2.35	0.57
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.38	0.57
7:CG:138:LYS:HE2	7:CG:142:GLU:OE2	2.05	0.57
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.84	0.57
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.24	0.57
11:CK:62:GLN:O	11:CK:64:ALA:N	2.38	0.57
15:CO:64:ARG:NH2	15:CO:88:ARG:CZ	2.67	0.57
16:CP:7:ALA:O	16:CP:9:PHE:HD2	1.87	0.57
19:CS:5:LEU:HG	19:CS:10:PHE:CD1	2.39	0.57
30:D8:53:PRO:HA	30:D8:56:GLU:HB2	1.86	0.57
31:DA:287:C:N4	31:DA:354:G:H1	1.91	0.57
31:DA:807:U:C2'	31:DA:808:G:O5'	2.52	0.57
31:DA:1351:C:H4'	31:DA:1572:A:O4'	2.04	0.57
31:DA:1410:G:C6	31:DA:1411:C:N4	2.72	0.57
31:DA:1763:G:H4'	31:DA:1763:G:OP1	2.04	0.57
31:DA:2475:C:H5''	31:DA:2476:A:P	2.45	0.57
31:DA:2598:A:P	33:DD:236:GLY:HA3	2.43	0.57
31:DA:2792:G:H2'	31:DA:2792:G:N3	2.19	0.57
33:DD:158:ALA:O	33:DD:159:ALA:CB	2.51	0.57
35:DF:66:PRO:O	35:DF:67:GLN:CB	2.40	0.57
35:DF:178:PRO:HG2	35:DF:179:GLU:OE2	2.04	0.57
36:DG:24:GLY:C	36:DG:25:TYR:CD2	2.78	0.57
36:DG:120:LEU:HG	36:DG:179:PRO:O	2.05	0.57
39:DN:47:ALA:HB2	39:DN:112:LEU:HD11	1.87	0.57
39:DN:75:TYR:N	39:DN:75:TYR:CD1	2.70	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DQ:75:THR:HA	42:DQ:88:GLY:CA	2.27	0.57
43:DR:13:HIS:HE1	43:DR:15:SER:OG	1.86	0.57
45:DT:109:GLU:O	45:DT:113:LYS:HG3	2.05	0.57
47:DV:50:PRO:O	47:DV:51:VAL:O	2.22	0.57
49:DX:88:LYS:O	49:DX:89:ILE:HB	2.03	0.57
1:AA:244:U:C6	1:AA:894:G:N2	2.73	0.57
1:AA:411:A:C6	1:AA:429:U:C4	2.93	0.57
1:AA:552:U:C2'	1:AA:553:A:H5'	2.33	0.57
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.04	0.57
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.72	0.57
3:AC:134:ILE:HG22	3:AC:168:ALA:HB3	1.87	0.57
8:AH:10:LEU:HD23	8:AH:10:LEU:N	2.18	0.57
15:AO:64:ARG:NH2	15:AO:88:ARG:CZ	2.68	0.57
19:AS:79:THR:O	19:AS:80:TYR:HB3	2.04	0.57
27:B5:2:ALA:N	31:BA:747:U:N3	2.52	0.57
29:B7:39:ARG:NH2	31:BA:468:G:N7	2.42	0.57
30:B8:30:ARG:HB2	31:BA:2393:A:OP1	2.04	0.57
31:BA:271(E):U:H2'	31:BA:271(F):C:H6	1.66	0.57
31:BA:528:A:H2	31:BA:2043:C:H5'	1.69	0.57
31:BA:626:U:O2	31:BA:626:U:H2'	2.04	0.57
31:BA:1899:G:O2'	31:BA:1900:A:H5''	2.05	0.57
31:BA:2065:C:H2'	31:BA:2066:C:H6	1.70	0.57
31:BA:2307:G:H3'	31:BA:2307:G:N3	2.18	0.57
31:BA:2363:C:O2'	31:BA:2364:C:H5'	2.04	0.57
32:BB:17:C:N3	32:BB:18:G:C5	2.72	0.57
32:BB:41:U:C2'	32:BB:42:C:OP1	2.52	0.57
34:BE:65:GLY:C	34:BE:67:PHE:H	2.07	0.57
36:BG:31:VAL:HG12	36:BG:33:ARG:N	2.20	0.57
38:BI:98:ALA:O	38:BI:102:SER:HB2	2.05	0.57
42:BQ:24:GLY:HA2	51:BZ:78:LYS:HA	1.86	0.57
42:BQ:81:VAL:O	42:BQ:82:ARG:CZ	2.52	0.57
1:CA:14:U:O2	1:CA:17:U:H5	1.87	0.57
1:CA:16:A:O2'	1:CA:17:U:H5'	2.03	0.57
1:CA:114:U:O2'	1:CA:115:G:H5'	2.05	0.57
1:CA:953:G:H5'	1:CA:965:A:H61	1.68	0.57
1:CA:1162:C:H2'	1:CA:1163:C:C6	2.39	0.57
1:CA:1511:G:H2'	1:CA:1512:U:O4'	2.05	0.57
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.68	0.57
3:CC:11:ARG:O	3:CC:13:GLY:N	2.38	0.57
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.04	0.57
8:CH:20:TYR:CE1	8:CH:76:PRO:HG2	2.39	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:114:TYR:N	9:CI:114:TYR:HD2	2.02	0.57
13:CM:4:ILE:H	13:CM:9:ILE:HG13	1.68	0.57
15:CO:3:ILE:HD13	15:CO:3:ILE:N	2.18	0.57
18:CR:53:ARG:HH21	18:CR:60:ALA:CA	2.17	0.57
27:D5:4:HIS:O	27:D5:5:PRO:C	2.38	0.57
30:D8:32:LEU:HB3	30:D8:35:GLN:N	2.19	0.57
31:DA:58:G:C2'	31:DA:59:U:O5'	2.52	0.57
31:DA:691:C:O2'	31:DA:692:C:H5'	2.05	0.57
31:DA:1474:C:H5''	31:DA:1474:C:C6	2.39	0.57
31:DA:1771:C:C1'	31:DA:1786:A:H8	2.17	0.57
31:DA:2287:A:O2'	31:DA:2288:A:H3'	2.04	0.57
32:DB:21:G:C8	32:DB:22:U:H1'	2.39	0.57
35:DF:28:ILE:H	35:DF:28:ILE:CD1	2.15	0.57
41:DP:16:ARG:HG2	41:DP:17:LYS:N	2.09	0.57
1:AA:448:A:OP2	1:AA:485:G:N2	2.28	0.57
1:AA:748:C:H1'	1:AA:749:C:OP2	2.04	0.57
1:AA:951:G:C6	1:AA:1231:G:C6	2.93	0.57
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.69	0.57
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.39	0.57
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.23	0.57
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.72	0.57
24:B2:12:GLU:CD	24:B2:12:GLU:C	2.63	0.57
31:BA:528:A:N1	31:BA:2043:C:O5'	2.37	0.57
31:BA:911:A:C5	42:BQ:9:TYR:CE2	2.90	0.57
31:BA:1441:G:O2'	31:BA:1442:G:H5'	2.05	0.57
31:BA:1495:A:C4	31:BA:1496:A:C2	2.93	0.57
31:BA:2842:G:H2'	31:BA:2843:G:C8	2.40	0.57
36:BG:88:ILE:HG23	36:BG:90:LEU:H	1.70	0.57
39:BN:42:TRP:CG	39:BN:43:THR:N	2.73	0.57
39:BN:56:ASN:HA	39:BN:125:GLY:H	1.68	0.57
46:BU:88:ILE:O	46:BU:88:ILE:CD1	2.53	0.57
49:BX:36:LYS:HZ2	49:BX:39:ILE:CA	2.17	0.57
51:BZ:117:LEU:HB3	51:BZ:174:VAL:HG22	1.86	0.57
51:BZ:150:LEU:O	51:BZ:171:ILE:HG12	2.05	0.57
1:CA:52:G:H2'	1:CA:53:A:H8	1.68	0.57
1:CA:520:A:C2	1:CA:536:C:H1'	2.39	0.57
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.87	0.57
3:CC:24:ALA:HB1	3:CC:28:GLN:O	2.05	0.57
4:CD:31:CYS:C	4:CD:33:MET:N	2.52	0.57
4:CD:64:LEU:O	4:CD:67:ILE:HB	2.05	0.57
4:CD:79:PHE:HE2	4:CD:83:SER:HG	1.53	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:93:GLU:HG2	20:CT:93:GLU:O	2.04	0.57
23:D1:34:THR:CG2	31:DA:388:G:P	2.92	0.57
31:DA:207:A:H2'	31:DA:208:C:O4'	2.04	0.57
31:DA:823:G:C2'	31:DA:824:A:H5'	2.34	0.57
31:DA:1044:G:H1'	31:DA:1111:A:N1	2.20	0.57
31:DA:1722:A:N6	31:DA:1741:A:C2	2.73	0.57
31:DA:1915:U:H2'	31:DA:1916:A:H8	1.69	0.57
31:DA:2299:G:N1	31:DA:2318:G:C8	2.73	0.57
31:DA:2682:U:O4'	34:DE:12:THR:HA	2.04	0.57
32:DB:55:U:H6	32:DB:55:U:OP2	1.86	0.57
32:DB:73:A:C4	32:DB:105:A:C2	2.93	0.57
33:DD:158:ALA:O	33:DD:159:ALA:HB2	2.05	0.57
34:DE:93:VAL:C	34:DE:95:ILE:H	2.07	0.57
37:DH:153:LYS:HD3	37:DH:153:LYS:N	2.14	0.57
38:DI:25:TYR:CE1	38:DI:30:LEU:HD21	2.39	0.57
38:DI:101:LEU:HG	38:DI:109:ILE:HG12	1.87	0.57
38:DI:127:VAL:HG22	38:DI:139:GLN:HG3	1.85	0.57
45:DT:23:ARG:CB	45:DT:24:PRO:HD2	2.33	0.57
46:DU:64:ARG:CZ	46:DU:64:ARG:CA	2.83	0.57
1:AA:279:A:OP2	17:AQ:95:TYR:OH	2.15	0.57
1:AA:859:A:H2'	1:AA:860:A:O4'	2.05	0.57
1:AA:980:C:H5'	1:AA:981:U:H5	1.69	0.57
1:AA:1095:U:P	1:AA:1108:G:H1	2.27	0.57
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.04	0.57
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.05	0.57
2:AB:204:ASN:HB3	2:AB:210:SER:CB	2.34	0.57
3:AC:83:ARG:O	3:AC:86:VAL:HG22	2.04	0.57
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.05	0.57
5:AE:136:MET:HB3	5:AE:140:ARG:HH22	1.69	0.57
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.17	0.57
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.86	0.57
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.85	0.57
13:AM:3:ARG:HD3	13:AM:9:ILE:HD11	1.85	0.57
30:B8:32:LEU:HD23	30:B8:35:GLN:CA	2.34	0.57
31:BA:272(H):C:O2	31:BA:272(H):C:H2'	2.05	0.57
31:BA:892:G:C8	31:BA:893:C:C4	2.93	0.57
31:BA:892:G:H2'	31:BA:893:C:O4'	2.03	0.57
31:BA:1042:G:N3	31:BA:1042:G:H2'	2.18	0.57
31:BA:1210:A:H5''	31:BA:1212:G:O4'	2.05	0.57
31:BA:2752:C:C4	31:BA:2753:A:N7	2.72	0.57
34:BE:103:ASP:OD1	34:BE:168:MET:HB3	2.04	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:158:GLY:O	34:BE:159:HIS:C	2.42	0.57
38:BI:43:ASN:ND2	38:BI:43:ASN:H	2.00	0.57
45:BT:90:GLN:HG2	45:BT:120:ARG:HH12	1.67	0.57
50:BY:49:VAL:HG12	50:BY:53:PRO:CB	2.35	0.57
51:BZ:6:LYS:HG2	51:BZ:8:TYR:OH	2.04	0.57
1:CA:397:A:N7	1:CA:548:G:C8	2.73	0.57
3:CC:104:GLN:CD	3:CC:105:GLU:H	2.08	0.57
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.70	0.57
6:CF:5:GLU:HB3	6:CF:62:TRP:HE1	1.69	0.57
12:CL:93:LEU:HB3	12:CL:96:VAL:HG23	1.86	0.57
23:D1:10:LYS:CG	23:D1:11:ARG:N	2.68	0.57
23:D1:86:SER:N	23:D1:87:PRO:CD	2.67	0.57
24:D2:25:VAL:HG22	24:D2:26:ARG:HH11	1.70	0.57
24:D2:49:LYS:C	24:D2:53:LEU:HB3	2.24	0.57
28:D6:19:ARG:O	28:D6:20:ASN:O	2.22	0.57
28:D6:46:HIS:CE1	31:DA:2371:G:O2'	2.58	0.57
31:DA:142:A:H5''	31:DA:142(A):C:H5	1.70	0.57
31:DA:376:C:H2'	31:DA:377:C:C6	2.40	0.57
31:DA:485:C:H2'	31:DA:486:C:C6	2.39	0.57
31:DA:814:C:H5''	47:DV:86:GLY:HA3	1.87	0.57
31:DA:855:G:C5	31:DA:856:C:C4	2.92	0.57
31:DA:1722:A:C4	31:DA:1741:A:N6	2.72	0.57
31:DA:2071:A:H2	31:DA:2440:C:N4	2.03	0.57
31:DA:2666:C:H5'	31:DA:2667:C:OP2	2.04	0.57
32:DB:8:U:O2'	44:DS:40:ILE:HD13	2.05	0.57
33:DD:186:HIS:CD2	33:DD:188:GLU:H	2.22	0.57
34:DE:120:TRP:CD1	34:DE:155:LYS:HB3	2.39	0.57
35:DF:160:ASN:C	35:DF:160:ASN:ND2	2.57	0.57
36:DG:31:VAL:HB	36:DG:33:ARG:HG2	1.84	0.57
37:DH:18:GLU:HB2	37:DH:25:LYS:HB2	1.86	0.57
37:DH:143:GLN:HE22	37:DH:147:ASN:ND2	2.03	0.57
39:DN:42:TRP:C	39:DN:42:TRP:CD1	2.77	0.57
44:DS:19:LYS:HG2	44:DS:19:LYS:O	2.05	0.57
50:DY:47:LYS:HZ3	50:DY:47:LYS:HB3	1.68	0.57
1:AA:66:G:C2	1:AA:67:C:C6	2.92	0.57
1:AA:738:C:H2'	1:AA:739:C:C6	2.40	0.57
1:AA:754:C:H3'	1:AA:754:C:O2	2.05	0.57
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.87	0.57
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.40	0.57
8:AH:69:ARG:HD3	8:AH:75:ARG:O	2.04	0.57
12:AL:6:THR:HG23	12:AL:9:GLN:NE2	2.19	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:46:CYS:SG	27:B5:47:PRO:CG	2.92	0.57
31:BA:184:C:C2	31:BA:185:U:C5	2.92	0.57
31:BA:489:G:N7	48:BW:49:LYS:NZ	2.52	0.57
31:BA:873:G:N2	31:BA:905:U:C2	2.73	0.57
31:BA:1164:G:H2'	31:BA:1165:U:C6	2.40	0.57
31:BA:1543:C:OP2	31:BA:1543:C:H6	1.88	0.57
31:BA:1665:A:H1'	40:BO:1:MET:HG2	1.86	0.57
33:BD:255:LYS:N	33:BD:255:LYS:NZ	2.53	0.57
39:BN:30:ILE:O	39:BN:34:LEU:HD22	2.05	0.57
39:BN:125:GLY:HA2	39:BN:126:PRO:O	2.05	0.57
41:BP:35:HIS:O	41:BP:35:HIS:HD2	1.86	0.57
41:BP:88:LEU:C	41:BP:90:ARG:N	2.58	0.57
43:BR:34:ILE:HG22	43:BR:114:VAL:HG23	1.86	0.57
45:BT:106:SER:HB2	45:BT:110:ILE:HD11	1.87	0.57
45:BT:106:SER:O	45:BT:107:ASP:CB	2.52	0.57
45:BT:106:SER:O	45:BT:107:ASP:OD1	2.23	0.57
46:BU:92:ARG:CB	47:BV:11:GLN:HE21	2.16	0.57
1:CA:611:A:H61	1:CA:629:G:H1	1.51	0.57
1:CA:650:G:C2'	1:CA:651:C:H5'	2.35	0.57
1:CA:658:G:H1'	15:CO:22:THR:HB	1.85	0.57
1:CA:826:C:H2'	1:CA:827:U:H6	1.69	0.57
1:CA:840:C:H4'	1:CA:848:C:O2	2.04	0.57
1:CA:1270:C:H2'	1:CA:1271:G:O4'	2.04	0.57
1:CA:1291:G:O3'	9:CI:39:GLY:HA3	2.04	0.57
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.04	0.57
4:CD:96:LEU:HD22	4:CD:96:LEU:H	1.68	0.57
8:CH:25:ASP:OD2	8:CH:60:ARG:HG2	2.04	0.57
8:CH:136:GLU:HG3	8:CH:136:GLU:O	2.05	0.57
9:CI:10:ARG:HG2	9:CI:104:ARG:O	2.03	0.57
23:D1:19:GLN:CD	23:D1:44:PRO:HB3	2.24	0.57
24:D2:26:ARG:HA	24:D2:29:LYS:HE3	1.85	0.57
27:D5:28:PRO:HB3	48:DW:38:TYR:O	2.05	0.57
29:D7:1:MET:O	29:D7:2:LYS:C	2.43	0.57
31:DA:330:A:H2	31:DA:1210:A:O2'	1.87	0.57
31:DA:444:C:H4'	35:DF:49:ALA:HB2	1.87	0.57
31:DA:1141:U:OP2	39:DN:63:THR:OG1	2.18	0.57
31:DA:1526:G:C6	31:DA:1527:G:C2	2.92	0.57
31:DA:2552:U:C2	31:DA:2554:U:H5'	2.40	0.57
32:DB:13:A:H2'	32:DB:70:C:O2'	2.04	0.57
35:DF:138:GLU:O	35:DF:141:ALA:HB3	2.05	0.57
39:DN:1:MET:HB3	47:DV:20:LEU:HD22	1.87	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DQ:7:MET:O	42:DQ:10:ARG:NH2	2.38	0.57
1:AA:119:A:H4'	1:AA:120:A:O5'	2.04	0.57
1:AA:262:A:C6	1:AA:263:A:N6	2.72	0.57
1:AA:356:A:H2'	1:AA:357:G:O5'	2.04	0.57
1:AA:514:C:H2'	1:AA:515:G:C8	2.39	0.57
1:AA:1399:C:H4'	1:AA:1400:C:C5'	2.35	0.57
3:AC:71:ALA:HB2	3:AC:115:LEU:CD1	2.34	0.57
4:AD:43:HIS:HB3	4:AD:46:LYS:HD2	1.86	0.57
4:AD:173:TRP:HA	4:AD:187:ARG:NH1	2.19	0.57
5:AE:78:HIS:CD2	8:AH:104:ARG:NE	2.73	0.57
5:AE:122:GLU:O	5:AE:123:LEU:HD23	2.03	0.57
13:AM:108:ARG:CZ	13:AM:114:ARG:HG2	2.35	0.57
15:AO:27:VAL:HG12	15:AO:31:LEU:HD13	1.87	0.57
20:AT:30:LYS:O	20:AT:34:LYS:HG3	2.05	0.57
28:B6:46:HIS:CE1	31:BA:2371:G:O2'	2.58	0.57
30:B8:7:HIS:CD2	41:BP:50:ARG:HD3	2.40	0.57
30:B8:32:LEU:HB3	30:B8:34:TRP:N	2.20	0.57
31:BA:747:U:O3'	48:BW:89:ALA:HB3	2.04	0.57
31:BA:775:G:C5	31:BA:794:G:C8	2.93	0.57
31:BA:783:A:H2'	31:BA:785:G:OP1	2.05	0.57
31:BA:1171:G:OP2	31:BA:1171:G:C8	2.50	0.57
31:BA:1411:C:H2'	31:BA:1412:A:H8	1.68	0.57
31:BA:1464:C:H4'	31:BA:1528(A):A:H4'	1.87	0.57
31:BA:1694:C:O2'	31:BA:1695:G:C2	2.54	0.57
31:BA:2393:A:OP1	41:BP:62:LEU:HD12	2.05	0.57
32:BB:31:C:H2'	32:BB:53:A:H61	1.69	0.57
33:BD:43:ARG:HB2	33:BD:54:ARG:HB2	1.87	0.57
36:BG:60:LEU:O	36:BG:60:LEU:HD22	2.05	0.57
38:BI:127:VAL:HG22	38:BI:139:GLN:HG3	1.86	0.57
41:BP:10:PRO:HD2	41:BP:11:GLY:H	1.70	0.57
41:BP:101:VAL:HB	41:BP:107:LYS:N	2.16	0.57
41:BP:111:ARG:HA	41:BP:128:HIS:CD2	2.39	0.57
45:BT:3:ARG:HB2	45:BT:6:LEU:CB	2.34	0.57
50:BY:38:ILE:HG22	50:BY:39:VAL:N	2.19	0.57
1:CA:327:A:C4	1:CA:329:A:C8	2.93	0.57
1:CA:833:U:H2'	1:CA:834:C:H6	1.70	0.57
12:CL:27:LEU:HG	12:CL:62:SER:OG	2.05	0.57
12:CL:74:GLY:O	12:CL:102:ARG:NH2	2.38	0.57
31:DA:17:G:H4'	46:DU:25:TRP:CH2	2.40	0.57
31:DA:322:A:H4'	31:DA:323:G:OP2	2.05	0.57
31:DA:521:G:O2'	31:DA:522:G:H5'	2.05	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:580:C:H2'	31:DA:581:C:H6	1.68	0.57
31:DA:753:C:O5'	31:DA:753:C:C6	2.58	0.57
31:DA:1011:G:OP1	46:DU:75:ASN:HB3	2.04	0.57
31:DA:1247:A:C4	31:DA:1249:U:C5	2.93	0.57
31:DA:1290:C:H2'	31:DA:1291:C:C6	2.40	0.57
31:DA:1803:A:O3'	33:DD:259:THR:HG21	2.05	0.57
31:DA:1902:C:HO2'	33:DD:244:ARG:HB2	1.66	0.57
31:DA:2061:G:N3	31:DA:2063:C:C5	2.73	0.57
31:DA:2235:G:H2'	31:DA:2236:C:C6	2.40	0.57
33:DD:91:ARG:O	33:DD:107:ALA:HB3	2.05	0.57
34:DE:137:HIS:HB3	34:DE:138:PRO:CD	2.35	0.57
38:DI:29:TYR:C	38:DI:32:PRO:HD2	2.24	0.57
39:DN:23:LEU:HD13	39:DN:98:VAL:HG12	1.87	0.57
39:DN:78:TYR:HD1	39:DN:79:PRO:N	2.01	0.57
44:DS:89:ARG:HB3	44:DS:92:TYR:HB2	1.85	0.57
46:DU:95:LEU:HD22	47:DV:4:ILE:CD1	2.35	0.57
47:DV:19:LYS:HB3	47:DV:96:ILE:O	2.04	0.57
1:AA:69:G:H2'	1:AA:70:G:H8	1.70	0.57
1:AA:254:G:O2'	1:AA:255:G:H5'	2.05	0.57
1:AA:339:C:O2'	1:AA:340:U:H5'	2.05	0.57
1:AA:354:G:C4	1:AA:355:C:C5	2.93	0.57
1:AA:436:C:H2'	1:AA:436:C:OP2	2.04	0.57
1:AA:542:G:OP1	4:AD:10:ARG:NH2	2.37	0.57
1:AA:666:G:C2	1:AA:741:G:C4	2.93	0.57
1:AA:1116:C:N4	1:AA:1117:G:N7	2.53	0.57
1:AA:1162:C:H2'	1:AA:1163:C:C6	2.40	0.57
1:AA:1442(A):G:C4	45:BT:118:ARG:HD2	2.40	0.57
1:AA:1466:C:H2'	1:AA:1467:G:H5'	1.87	0.57
1:AA:1507:A:C2	1:AA:1508:G:C4	2.93	0.57
3:AC:86:VAL:O	3:AC:89:GLU:HB3	2.05	0.57
5:AE:88:LYS:HB3	5:AE:123:LEU:HB2	1.87	0.57
7:AG:47:CYS:O	7:AG:50:ILE:HB	2.05	0.57
8:AH:134:ILE:O	8:AH:135:CYS:HB3	2.05	0.57
12:AL:113:ARG:HG3	12:AL:114:LYS:N	2.20	0.57
25:B3:24:LYS:HB3	31:BA:849:A:H2	1.69	0.57
28:B6:19:ARG:HG3	28:B6:20:ASN:H	1.68	0.57
31:BA:711:G:O2'	31:BA:712:G:H5'	2.04	0.57
31:BA:1218:C:C2'	31:BA:1219:G:H5'	2.34	0.57
31:BA:1317:A:H2'	31:BA:1318:C:C6	2.40	0.57
31:BA:1459:G:H5''	31:BA:1460:A:OP2	2.05	0.57
31:BA:1465:G:N3	31:BA:1545:A:H2	2.03	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1670:C:O2	34:BE:129:HIS:CE1	2.58	0.57
31:BA:1777:U:C2'	31:BA:1778:U:H5'	2.35	0.57
31:BA:2262:U:C2'	31:BA:2263:C:H5'	2.35	0.57
31:BA:2286:A:C8	31:BA:2286:A:O2'	2.58	0.57
31:BA:2313:C:O2'	31:BA:2314:C:H5'	2.05	0.57
31:BA:2335:A:C8	31:BA:2337:G:C5	2.93	0.57
31:BA:2422:A:O2'	31:BA:2423:U:O5'	2.23	0.57
31:BA:2655:G:H2'	31:BA:2655:G:N3	2.20	0.57
31:BA:2870:C:H2'	31:BA:2871:C:C5'	2.31	0.57
32:BB:57:A:N3	32:BB:58:A:C8	2.73	0.57
37:BH:41:MET:O	37:BH:42:ARG:C	2.42	0.57
43:BR:33:ARG:HG2	43:BR:115:GLU:CG	2.32	0.57
48:BW:71:VAL:HA	48:BW:107:LEU:HD12	1.87	0.57
51:BZ:54:HIS:O	51:BZ:55:HIS:CD2	2.58	0.57
1:CA:333:G:O2'	1:CA:334:C:H5'	2.04	0.57
1:CA:977:A:H2'	1:CA:978:A:H5'	1.86	0.57
1:CA:1346:A:C8	1:CA:1348:U:O2	2.57	0.57
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.05	0.57
4:CD:9:CYS:HB2	4:CD:22:LYS:HD2	1.87	0.57
6:CF:45:LEU:CD1	6:CF:57:GLN:HB3	2.35	0.57
9:CI:104:ARG:O	9:CI:104:ARG:HG2	2.05	0.57
13:CM:3:ARG:HD3	13:CM:9:ILE:HD11	1.86	0.57
31:DA:143:G:C1'	49:DX:38:GLU:HG3	2.34	0.57
31:DA:271(U):G:C2'	31:DA:271(V):G:H5'	2.35	0.57
31:DA:586:A:C2	31:DA:1254:A:C2	2.93	0.57
31:DA:764:A:OP1	33:DD:208:LYS:HE2	2.04	0.57
31:DA:1468:C:H2'	31:DA:1469:A:H8	1.69	0.57
31:DA:1657:C:OP1	34:DE:136:ARG:N	2.36	0.57
31:DA:2019:A:C2'	31:DA:2020:A:O5'	2.53	0.57
31:DA:2277:G:C2'	31:DA:2278:A:H5'	2.34	0.57
31:DA:2808:U:H2'	31:DA:2809:A:C5'	2.35	0.57
31:DA:2884:U:C5	31:DA:2885:C:C6	2.93	0.57
33:DD:48:ARG:NH1	33:DD:48:ARG:HG3	2.18	0.57
33:DD:164:GLN:HB3	33:DD:166:GLN:HE22	1.68	0.57
35:DF:32:LEU:HD23	35:DF:32:LEU:C	2.26	0.57
37:DH:41:MET:O	37:DH:42:ARG:C	2.42	0.57
44:DS:90:GLY:H	44:DS:91:PRO:HD2	1.69	0.57
47:DV:38:LEU:HG	47:DV:39:LEU:H	1.69	0.57
47:DV:70:ILE:HB	47:DV:90:PRO:HB2	1.86	0.57
50:DY:46:LYS:HB2	50:DY:47:LYS:HD2	1.87	0.57
51:DZ:9:TYR:CE2	51:DZ:35:ARG:HD2	2.39	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:142:SER:H	51:DZ:144:LEU:CD2	2.17	0.57
1:AA:97:G:O2'	1:AA:98:G:H8	1.84	0.56
1:AA:620:C:H2'	1:AA:621:A:O4'	2.05	0.56
1:AA:630:G:H2'	1:AA:630:G:N3	2.20	0.56
1:AA:775:G:O2'	1:AA:776:G:H5'	2.05	0.56
1:AA:1061:G:H2'	1:AA:1062:U:H5'	1.86	0.56
1:AA:1409:C:H5'	31:BA:1916:A:N1	2.20	0.56
1:AA:1466:C:C2'	1:AA:1467:G:H5'	2.35	0.56
5:AE:139:LEU:C	5:AE:141:GLN:H	2.08	0.56
6:AF:6:VAL:HG13	6:AF:90:VAL:HG22	1.86	0.56
27:B5:40:LYS:CE	27:B5:46:CYS:HB3	2.33	0.56
31:BA:389:G:N1	41:BP:70:GLN:HG3	2.20	0.56
31:BA:476:G:H4'	31:BA:502:A:N1	2.19	0.56
31:BA:515:A:H1'	31:BA:581:C:H1'	1.85	0.56
31:BA:661:C:O3'	41:BP:18:ARG:HG2	2.04	0.56
31:BA:843:G:C2	31:BA:936:C:C2	2.93	0.56
31:BA:892:G:H1	31:BA:894:C:H41	1.51	0.56
31:BA:910:A:C4	42:BQ:13:GLN:OE1	2.58	0.56
31:BA:1434:A:O2'	31:BA:1435:G:H5'	2.05	0.56
31:BA:1662:C:HO2'	31:BA:1663:C:H5'	1.69	0.56
31:BA:2001:A:H2'	31:BA:2002:G:C8	2.40	0.56
31:BA:2291:U:H5''	31:BA:2380:C:O2	2.04	0.56
32:BB:53:A:C2	32:BB:54:G:H1'	2.40	0.56
33:BD:231:HIS:CG	33:BD:232:PRO:HD2	2.40	0.56
35:BF:164:ARG:HH11	35:BF:164:ARG:HG2	1.70	0.56
36:BG:24:GLY:C	36:BG:25:TYR:CD2	2.78	0.56
37:BH:86:GLU:CB	37:BH:132:ARG:HG2	2.34	0.56
38:BI:88:ILE:HG13	38:BI:121:LYS:C	2.25	0.56
42:BQ:18:LYS:O	42:BQ:19:GLY:C	2.42	0.56
45:BT:99:LEU:HB2	45:BT:101:PHE:HE1	1.67	0.56
1:CA:427:U:C4	1:CA:428:G:C6	2.92	0.56
1:CA:630:G:N3	1:CA:630:G:H2'	2.21	0.56
1:CA:708:C:O2'	1:CA:709:G:H5'	2.05	0.56
1:CA:986:A:H1'	19:CS:54:GLY:O	2.05	0.56
1:CA:1350:A:C5	1:CA:1351:U:C4	2.93	0.56
3:CC:207:VAL:HG12	3:CC:207:VAL:O	2.05	0.56
5:CE:78:HIS:CD2	8:CH:104:ARG:NE	2.73	0.56
6:CF:81:ILE:O	6:CF:82:ARG:C	2.43	0.56
9:CI:82:ALA:HB1	9:CI:96:LEU:CD1	2.34	0.56
16:CP:20:VAL:HG21	16:CP:32:TYR:CD2	2.40	0.56
24:D2:30:ARG:HH11	24:D2:30:ARG:HG3	1.70	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:31:C:C4	31:DA:32:C:C5	2.93	0.56
31:DA:45:C:H2'	31:DA:47:C:C6	2.40	0.56
31:DA:55:G:O2'	31:DA:127:A:N1	2.27	0.56
31:DA:319:C:H2'	31:DA:320:A:O4'	2.05	0.56
31:DA:768:G:C4	31:DA:769:G:C8	2.93	0.56
31:DA:1000:A:C6	31:DA:1001:A:C6	2.92	0.56
31:DA:1115:G:C2'	31:DA:1116:C:H6	2.11	0.56
31:DA:1411:C:H2'	31:DA:1412:A:H8	1.67	0.56
31:DA:1665:A:H1'	40:DO:1:MET:HG2	1.86	0.56
31:DA:1814:G:H2'	31:DA:1815:A:C8	2.40	0.56
31:DA:1952:A:C6	40:DO:22:ILE:HD11	2.40	0.56
31:DA:2314:C:H2'	31:DA:2315:G:H8	1.68	0.56
31:DA:2612:C:H2'	31:DA:2613:U:H5'	1.87	0.56
31:DA:2757:A:N1	37:DH:67:LEU:HD22	2.20	0.56
55:DA:3320:TEL:C10	55:DA:3320:TEL:H81	2.34	0.56
32:DB:115:G:H2'	32:DB:116:G:H8	1.70	0.56
34:DE:65:GLY:HA2	34:DE:70:ALA:CB	2.35	0.56
34:DE:98:PRO:HD3	34:DE:175:VAL:HG13	1.87	0.56
39:DN:82:LEU:H	39:DN:82:LEU:HD12	1.68	0.56
42:DQ:32:TYR:CZ	42:DQ:111:GLU:HB2	2.40	0.56
43:DR:10:LEU:HD13	43:DR:17:ARG:NH1	2.20	0.56
44:DS:89:ARG:HE	44:DS:89:ARG:CA	2.12	0.56
47:DV:25:LEU:C	47:DV:27:ALA:H	2.08	0.56
47:DV:73:SER:OG	47:DV:75:PHE:CE1	2.54	0.56
50:DY:68:HIS:ND1	50:DY:70:SER:HB3	2.20	0.56
1:AA:139:G:C2	1:AA:140:A:N7	2.73	0.56
1:AA:394:G:H2'	1:AA:395:C:C6	2.39	0.56
1:AA:584:G:H1	1:AA:757:U:H3	1.51	0.56
1:AA:775:G:C2'	1:AA:776:G:H5'	2.35	0.56
1:AA:1049:U:H4'	1:AA:1050:G:O5'	2.05	0.56
1:AA:1379:G:C6	1:AA:1380:U:O4	2.58	0.56
1:AA:1385:G:C2'	1:AA:1386:G:H5'	2.35	0.56
1:AA:1495:U:H2'	1:AA:1496:C:C6	2.39	0.56
12:AL:93:LEU:HB3	12:AL:96:VAL:HG23	1.86	0.56
22:B0:50:ASN:O	22:B0:62:LEU:HB2	2.05	0.56
22:B0:74:ARG:NH2	32:BB:13:A:C8	2.71	0.56
27:B5:36:CYS:HB3	27:B5:38:ALA:HB2	1.88	0.56
29:B7:19:ARG:HG2	29:B7:19:ARG:NH1	2.19	0.56
31:BA:663:G:H2'	31:BA:664:C:H6	1.70	0.56
31:BA:792:G:C5'	31:BA:793:A:H5'	2.35	0.56
31:BA:1434:A:N6	31:BA:1558:A:N6	2.51	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1742:G:C8	31:BA:1743:C:C2	2.93	0.56
31:BA:2016:U:H2'	31:BA:2017:U:C6	2.40	0.56
31:BA:2469:A:H2	31:BA:2481:G:N2	2.02	0.56
31:BA:2692:C:O2'	31:BA:2693:A:H5'	2.05	0.56
32:BB:46:A:C5	32:BB:47:C:C5	2.92	0.56
32:BB:87:G:H3'	32:BB:88:C:C5'	2.31	0.56
36:BG:25:TYR:HD1	36:BG:30:GLU:HG2	1.71	0.56
37:BH:143:GLN:HE22	37:BH:147:ASN:HD21	1.53	0.56
38:BI:131:LYS:HG3	38:BI:132:PRO:HA	1.86	0.56
45:BT:87:ASP:C	45:BT:87:ASP:OD2	2.42	0.56
46:BU:61:TRP:O	46:BU:64:ARG:N	2.38	0.56
47:BV:62:LEU:HD22	47:BV:98:GLU:CB	2.36	0.56
50:BY:34:LYS:O	50:BY:35:TYR:CB	2.53	0.56
51:BZ:53:ILE:HG21	51:BZ:71:VAL:HB	1.85	0.56
1:CA:97:G:O2'	1:CA:98:G:H8	1.83	0.56
1:CA:818:G:HO2'	1:CA:820:U:H6	1.53	0.56
1:CA:955:U:H3	1:CA:1225:A:H61	1.51	0.56
2:CB:61:LEU:HA	2:CB:64:ARG:CG	2.35	0.56
6:CF:14:LEU:O	6:CF:19:LEU:HD12	2.04	0.56
7:CG:150:ALA:HA	11:CK:59:TYR:HB3	1.86	0.56
8:CH:87:SER:HA	8:CH:93:VAL:CG2	2.34	0.56
9:CI:114:TYR:HD2	9:CI:114:TYR:H	1.53	0.56
12:CL:87:GLY:HA2	12:CL:98:TYR:HA	1.87	0.56
13:CM:86:CYS:HB2	19:CS:73:GLU:HB3	1.87	0.56
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.86	0.56
30:D8:12:LYS:HG2	41:DP:68:GLN:OE1	2.05	0.56
31:DA:236:C:H2'	31:DA:237:C:H6	1.71	0.56
31:DA:565:C:H2'	31:DA:566:U:O4'	2.04	0.56
31:DA:635:C:O2'	31:DA:639:U:OP1	2.19	0.56
31:DA:856:C:H5''	31:DA:856:C:H6	1.69	0.56
31:DA:1131:G:OP1	39:DN:80:GLY:HA2	2.05	0.56
31:DA:1464:C:H4'	31:DA:1528(A):A:H4'	1.87	0.56
31:DA:1642:G:C2'	31:DA:1643:G:H5'	2.35	0.56
31:DA:1751:C:HO2'	31:DA:1752:C:H5'	1.70	0.56
31:DA:1791:A:H3'	31:DA:1792:G:H8	1.70	0.56
31:DA:2074:U:H2'	31:DA:2075:U:C6	2.40	0.56
31:DA:2078:C:C4	31:DA:2079:U:C4	2.92	0.56
31:DA:2470:G:C6	31:DA:2471:C:C5	2.92	0.56
31:DA:2870:C:H5''	43:DR:65:LEU:HD21	1.87	0.56
34:DE:167:VAL:HG22	34:DE:168:MET:N	2.19	0.56
45:DT:87:ASP:OD2	45:DT:87:ASP:C	2.42	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DU:61:TRP:CD2	46:DU:94:ASN:HA	2.39	0.56
46:DU:83:LEU:HB3	46:DU:88:ILE:CD1	2.33	0.56
51:DZ:151:HIS:CB	51:DZ:170:THR:HA	2.27	0.56
1:AA:16:A:C2	1:AA:920:U:O2	2.58	0.56
1:AA:320:C:O2'	1:AA:1435:G:H1'	2.06	0.56
1:AA:427:U:H3'	1:AA:428:G:H2'	1.88	0.56
1:AA:614:A:C6	1:AA:627:G:N1	2.74	0.56
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.05	0.56
1:AA:818:G:HO2'	1:AA:819:A:H5''	1.69	0.56
1:AA:922:G:N3	1:AA:1396:A:C2	2.74	0.56
1:AA:1130:A:H1'	1:AA:1146:A:H2	1.70	0.56
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.40	0.56
1:AA:1190:G:P	3:AC:5:ILE:HG23	2.45	0.56
1:AA:1270:C:H2'	1:AA:1271:G:O4'	2.04	0.56
1:AA:1470:G:C2'	1:AA:1471:G:H5'	2.35	0.56
1:AA:1490:C:H2'	1:AA:1491:G:O4'	2.04	0.56
4:AD:38:TYR:CD2	4:AD:45:GLN:HB3	2.40	0.56
4:AD:88:VAL:O	4:AD:92:VAL:HG23	2.04	0.56
4:AD:135:LEU:O	4:AD:137:SER:N	2.38	0.56
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.21	0.56
5:AE:139:LEU:O	5:AE:141:GLN:N	2.38	0.56
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.53	0.56
12:AL:41:ARG:CG	12:AL:42:THR:H	2.16	0.56
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.87	0.56
13:AM:81:LEU:HB3	13:AM:89:GLY:CA	2.34	0.56
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.25	0.56
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.05	0.56
24:B2:29:LYS:HZ3	49:BX:9:LEU:HA	1.68	0.56
24:B2:47:ASN:ND2	24:B2:48:HIS:H	2.02	0.56
31:BA:143:G:C1'	49:BX:38:GLU:HG3	2.35	0.56
31:BA:176:G:C2'	31:BA:177:G:H5'	2.35	0.56
31:BA:415:A:H2'	31:BA:416:C:C6	2.41	0.56
31:BA:768:G:C6	31:BA:769:G:C5	2.94	0.56
31:BA:795:C:H2'	31:BA:796:C:H6	1.69	0.56
31:BA:863:A:O2'	31:BA:864:G:H5'	2.06	0.56
31:BA:957:A:N6	31:BA:959:A:C2	2.74	0.56
31:BA:1131:G:O6	31:BA:2040:C:H1'	2.05	0.56
31:BA:1382:G:O2'	31:BA:1383:C:H5'	2.04	0.56
31:BA:1438:U:O2'	31:BA:1439:A:H5'	2.05	0.56
31:BA:1528:A:C8	31:BA:1528(A):A:C5	2.93	0.56
31:BA:1667:G:H1'	31:BA:1991:U:O4	2.05	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1882:C:O2	31:BA:1882:C:C2'	2.51	0.56
31:BA:2019:A:C2'	31:BA:2020:A:O5'	2.52	0.56
31:BA:2287:A:C2	31:BA:2346:A:C2	2.94	0.56
31:BA:2304:G:N3	31:BA:2304:G:H2'	2.20	0.56
31:BA:2682:U:C5	34:BE:11:MET:HE1	2.40	0.56
31:BA:2785:C:H2'	31:BA:2786:U:H6	1.70	0.56
31:BA:2850:A:OP2	31:BA:2866:U:C5	2.58	0.56
31:BA:2872:G:O2'	31:BA:2873:A:H5'	2.04	0.56
32:BB:76:G:O3'	51:BZ:19:ARG:NH2	2.38	0.56
33:BD:155:LEU:O	33:BD:156:ALA:O	2.23	0.56
34:BE:27:LEU:HD22	45:BT:1:MET:HE2	1.87	0.56
34:BE:118:LYS:O	34:BE:160:TYR:CE1	2.56	0.56
34:BE:120:TRP:CD2	34:BE:155:LYS:HD3	2.39	0.56
35:BF:20:LEU:HD23	35:BF:23:ASP:OD2	2.05	0.56
36:BG:110:ALA:O	36:BG:111:LEU:HG	2.05	0.56
38:BI:13:GLY:O	38:BI:14:ASP:C	2.43	0.56
39:BN:3:THR:C	39:BN:4:TYR:CG	2.79	0.56
41:BP:131:SER:C	41:BP:133:SER:N	2.57	0.56
42:BQ:69:PHE:CD1	42:BQ:70:PRO:HD2	2.40	0.56
43:BR:5:LYS:N	43:BR:5:LYS:CD	2.65	0.56
43:BR:13:HIS:HE1	43:BR:15:SER:OG	1.88	0.56
44:BS:101:LEU:O	44:BS:102:ALA:O	2.24	0.56
45:BT:106:SER:O	45:BT:107:ASP:HB3	2.04	0.56
47:BV:19:LYS:HB3	47:BV:97:LYS:HA	1.87	0.56
48:BW:18:ARG:HG2	48:BW:18:ARG:NH1	2.17	0.56
49:BX:35:THR:O	49:BX:36:LYS:O	2.22	0.56
50:BY:83:THR:CG2	50:BY:94:LYS:HB3	2.36	0.56
51:BZ:99:TYR:HA	51:BZ:125:LEU:HA	1.86	0.56
1:CA:81:U:N3	1:CA:83:U:H5	2.02	0.56
1:CA:191:G:N3	20:CT:103:GLY:O	2.38	0.56
1:CA:320:C:O2'	1:CA:1435:G:H1'	2.05	0.56
1:CA:600:C:H2'	1:CA:601:C:H6	1.70	0.56
1:CA:629:G:C4	1:CA:630:G:C8	2.92	0.56
1:CA:748:C:C4'	1:CA:749:C:O5'	2.52	0.56
1:CA:954:G:C2	1:CA:955:U:C2	2.94	0.56
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.40	0.56
1:CA:1278:U:H5''	1:CA:1279:A:O4'	2.04	0.56
1:CA:1298:C:H4'	1:CA:1299:A:N3	2.20	0.56
1:CA:1442(A):G:C2	45:DT:118:ARG:HD2	2.40	0.56
2:CB:29:ALA:C	2:CB:31:TYR:H	2.07	0.56
3:CC:11:ARG:HB3	3:CC:15:THR:HB	1.86	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:79:PHE:CD2	4:CD:79:PHE:C	2.79	0.56
6:CF:94:GLN:HE21	18:CR:32:ARG:NH1	2.04	0.56
15:CO:27:VAL:HG12	15:CO:31:LEU:HD13	1.88	0.56
15:CO:39:LEU:CD2	15:CO:42:HIS:HD2	2.19	0.56
16:CP:55:ARG:HA	16:CP:55:ARG:HE	1.70	0.56
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.35	0.56
24:D2:26:ARG:HG3	49:DX:5:TYR:HB3	1.86	0.56
24:D2:26:ARG:N	24:D2:26:ARG:HD2	2.16	0.56
24:D2:56:GLN:HE21	24:D2:56:GLN:N	2.02	0.56
24:D2:57:ILE:HD11	24:D2:59:ARG:HD2	1.88	0.56
27:D5:50:GLY:HA3	27:D5:56:LYS:CG	2.36	0.56
31:DA:35:G:H2'	31:DA:36:G:O4'	2.05	0.56
31:DA:191:A:C2'	31:DA:192:C:H5'	2.36	0.56
31:DA:267:C:O2'	31:DA:268:C:H5'	2.05	0.56
31:DA:440:G:H2'	31:DA:441:U:C6	2.41	0.56
31:DA:492:A:H2'	31:DA:493:G:O4'	2.05	0.56
31:DA:720:C:H2'	31:DA:721:C:H6	1.71	0.56
31:DA:778:G:C5	31:DA:779:U:C4	2.93	0.56
31:DA:910:A:N1	31:DA:2277:G:H1'	2.20	0.56
31:DA:971:C:C2'	31:DA:972:G:H5'	2.36	0.56
31:DA:1171:G:OP2	31:DA:1171:G:C8	2.50	0.56
31:DA:1428:C:O2'	31:DA:1429:G:H5'	2.05	0.56
31:DA:1547:C:O2'	31:DA:1548:C:H5'	2.05	0.56
31:DA:1671:U:HO2'	31:DA:1673:U:H5	1.51	0.56
31:DA:2223:G:H2'	31:DA:2224:G:H5'	1.87	0.56
31:DA:2258:C:H4'	31:DA:2259:G:OP2	2.04	0.56
31:DA:2287:A:C2	31:DA:2346:A:C2	2.94	0.56
31:DA:2363:C:O2'	31:DA:2364:C:H5'	2.05	0.56
32:DB:21:G:C6	32:DB:63:G:N2	2.74	0.56
33:DD:244:ARG:HG2	33:DD:245:PRO:CD	2.32	0.56
34:DE:27:LEU:HD22	45:DT:1:MET:HE2	1.87	0.56
34:DE:47:VAL:HG21	34:DE:86:PRO:HD3	1.88	0.56
34:DE:197:ILE:HD11	34:DE:199:ARG:CZ	2.35	0.56
35:DF:160:ASN:ND2	35:DF:163:VAL:H	2.03	0.56
39:DN:66:LYS:HB3	39:DN:70:LYS:CB	2.35	0.56
40:DO:88:ASN:O	40:DO:91:LEU:N	2.36	0.56
41:DP:45:LEU:HD22	41:DP:46:LYS:N	2.18	0.56
41:DP:124:LYS:HA	41:DP:143:GLY:CA	2.34	0.56
43:DR:56:LYS:NZ	43:DR:90:ARG:O	2.31	0.56
43:DR:100:LEU:HD21	43:DR:113:LEU:CD1	2.34	0.56
45:DT:7:ILE:O	45:DT:8:LYS:C	2.44	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:38:ASN:HD22	45:DT:40:THR:H	1.52	0.56
46:DU:47:TYR:HA	46:DU:50:ARG:HH22	1.69	0.56
47:DV:13:ARG:HH11	47:DV:13:ARG:HG3	1.67	0.56
47:DV:70:ILE:O	47:DV:71:LEU:HB2	2.05	0.56
49:DX:24:GLY:O	49:DX:25:LYS:O	2.22	0.56
51:DZ:117:LEU:HB3	51:DZ:174:VAL:HG22	1.87	0.56
51:DZ:171:ILE:O	51:DZ:172:ALA:CB	2.53	0.56
1:AA:581:G:C2	1:AA:582:U:C4	2.94	0.56
1:AA:731:G:OP1	1:AA:766:A:H1'	2.05	0.56
1:AA:918:A:O2'	1:AA:919:A:H5'	2.05	0.56
1:AA:948:C:C5	13:AM:106:ASN:ND2	2.73	0.56
1:AA:1392:G:H2'	1:AA:1393:U:H5'	1.86	0.56
2:AB:15:VAL:HG23	2:AB:16:HIS:CE1	2.41	0.56
5:AE:100:VAL:HG13	5:AE:118:ILE:HG22	1.88	0.56
11:AK:53:SER:C	11:AK:55:LYS:H	2.07	0.56
12:AL:124:LYS:HD2	12:AL:125:PRO:HD2	1.86	0.56
23:B1:86:SER:N	23:B1:87:PRO:CD	2.67	0.56
24:B2:50:ILE:O	24:B2:51:ARG:CB	2.53	0.56
31:BA:9:U:C5	31:BA:2629:A:N6	2.74	0.56
31:BA:287:C:H2'	31:BA:288:C:H5''	1.87	0.56
31:BA:2599:G:C8	33:BD:236:GLY:HA2	2.40	0.56
31:BA:2821:A:H2'	31:BA:2822:G:O4'	2.04	0.56
32:BB:117:G:C2	32:BB:118:G:C8	2.94	0.56
33:BD:211:ARG:O	33:BD:215:LEU:HG	2.06	0.56
34:BE:98:PRO:HD3	34:BE:175:VAL:CG1	2.36	0.56
39:BN:56:ASN:C	39:BN:57:ALA:O	2.43	0.56
43:BR:87:TYR:O	43:BR:88:ARG:C	2.43	0.56
43:BR:97:VAL:HG22	43:BR:114:VAL:HG13	1.88	0.56
1:CA:189(B):C:N4	1:CA:189(J):G:N1	2.52	0.56
1:CA:258:G:H2'	1:CA:259:G:C8	2.41	0.56
1:CA:411:A:C6	1:CA:429:U:C4	2.93	0.56
1:CA:676:A:H2'	1:CA:677:U:C6	2.40	0.56
1:CA:791:G:C6	1:CA:792:A:N7	2.74	0.56
1:CA:1158:C:H2'	1:CA:1158:C:O2	2.05	0.56
3:CC:86:VAL:O	3:CC:89:GLU:HB3	2.04	0.56
3:CC:125:GLU:HA	3:CC:191:THR:HG22	1.86	0.56
4:CD:31:CYS:O	4:CD:31:CYS:SG	2.63	0.56
15:CO:74:ASP:OD2	15:CO:77:ARG:N	2.38	0.56
18:CR:74:ARG:HG3	18:CR:79:LEU:CB	2.35	0.56
23:D1:19:GLN:H	23:D1:44:PRO:HD3	1.71	0.56
23:D1:94:LEU:HD22	23:D1:95:LEU:O	2.05	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:19:GLY:C	26:D4:21:VAL:H	2.09	0.56
31:DA:38:A:H2'	31:DA:39:C:H6	1.68	0.56
31:DA:271(J):C:H5'	31:DA:271(K):U:OP2	2.05	0.56
31:DA:287:C:H2'	31:DA:288:C:C5'	2.36	0.56
31:DA:686:G:N2	31:DA:788:A:H61	2.03	0.56
31:DA:1132:A:H1'	39:DN:73:THR:HG21	1.86	0.56
31:DA:1152:C:H5''	46:DU:80:ILE:CG2	2.35	0.56
31:DA:1153:C:H2'	31:DA:1154:G:O4'	2.06	0.56
31:DA:1719:G:C6	31:DA:1720:U:C4	2.94	0.56
31:DA:1783:A:C2	31:DA:2587:A:C5	2.93	0.56
31:DA:1858:G:H1'	31:DA:1884:A:H61	1.71	0.56
31:DA:2025:C:H2'	31:DA:2026:C:H6	1.70	0.56
31:DA:2304:G:H2'	31:DA:2304:G:N3	2.21	0.56
31:DA:2656:U:N3	31:DA:2665:A:C2	2.73	0.56
32:DB:16:G:C2	32:DB:17:C:H6	2.24	0.56
33:DD:132:PRO:HA	33:DD:190:TYR:HA	1.86	0.56
34:DE:9:VAL:HG22	34:DE:25:VAL:HB	1.86	0.56
36:DG:25:TYR:HD1	36:DG:30:GLU:HG2	1.71	0.56
36:DG:88:ILE:HG23	36:DG:90:LEU:H	1.69	0.56
41:DP:80:TYR:CD1	41:DP:111:ARG:HB3	2.41	0.56
43:DR:13:HIS:O	43:DR:14:SER:C	2.44	0.56
43:DR:53:HIS:CD2	43:DR:94:TYR:OH	2.58	0.56
44:DS:61:ASN:OD1	44:DS:64:GLU:HB2	2.04	0.56
45:DT:28:VAL:CG2	45:DT:46:GLU:HG3	2.35	0.56
1:AA:79:G:C4'	1:AA:80:G:OP1	2.52	0.56
1:AA:432:A:N7	1:AA:433:C:C4	2.73	0.56
1:AA:438:G:H4'	4:AD:123:HIS:CE1	2.40	0.56
1:AA:509:A:C5'	4:AD:55:ALA:HB2	2.35	0.56
1:AA:520:A:C2	1:AA:536:C:H1'	2.40	0.56
1:AA:716:A:N3	11:AK:118:GLY:HA2	2.21	0.56
1:AA:834:C:H2'	1:AA:835:U:C6	2.41	0.56
1:AA:1157:A:N9	1:AA:1181:G:N2	2.54	0.56
1:AA:1278:U:H5''	1:AA:1279:A:O4'	2.06	0.56
4:AD:150:GLU:CD	4:AD:150:GLU:H	2.08	0.56
5:AE:105:VAL:HB	5:AE:106:PRO:HD3	1.86	0.56
8:AH:36:LEU:C	8:AH:38:ILE:H	2.09	0.56
28:B6:11:LEU:HD23	28:B6:25:LYS:HA	1.87	0.56
29:B7:8:ASN:HD22	29:B7:9:ARG:N	2.04	0.56
31:BA:28:A:N6	31:BA:512:G:H1'	2.20	0.56
31:BA:839:U:H2'	31:BA:840:C:C6	2.41	0.56
31:BA:1241:A:C2'	31:BA:1242:A:O5'	2.54	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1394:U:C4	31:BA:1395:A:C5	2.93	0.56
31:BA:1562:A:O2'	31:BA:1563:G:H5'	2.05	0.56
31:BA:1712:C:H2'	31:BA:1713:U:C6	2.36	0.56
31:BA:2536:G:C5	31:BA:2537:U:C4	2.93	0.56
31:BA:2586:C:C5	31:BA:2608:G:N2	2.74	0.56
31:BA:2653:U:H3	31:BA:2667:C:H42	1.53	0.56
31:BA:2747:G:O2'	37:BH:67:LEU:HD13	2.05	0.56
33:BD:39:LYS:NZ	33:BD:60:ARG:HH11	2.04	0.56
34:BE:169:ASN:ND2	34:BE:201:THR:HG21	2.20	0.56
35:BF:31:HIS:CG	41:BP:13:ASN:HD22	2.22	0.56
36:BG:52:ILE:HG22	36:BG:54:GLU:HG2	1.87	0.56
36:BG:96:ARG:HD2	36:BG:97:ASP:H	1.71	0.56
37:BH:140:LYS:O	37:BH:141:VAL:C	2.43	0.56
40:BO:2:ILE:HD12	40:BO:6:THR:HG21	1.86	0.56
44:BS:67:ARG:C	44:BS:69:VAL:N	2.58	0.56
48:BW:18:ARG:HH11	48:BW:18:ARG:CG	2.09	0.56
49:BX:82:GLN:HG3	49:BX:85:PRO:HD3	1.88	0.56
50:BY:76:CYS:HB3	50:BY:77:PRO:HD2	1.88	0.56
1:CA:677:U:O2'	1:CA:678:U:H5'	2.05	0.56
1:CA:790:A:N6	1:CA:791:G:O6	2.38	0.56
1:CA:818:G:C2	1:CA:820:U:O2'	2.56	0.56
1:CA:1157:A:N9	1:CA:1181:G:N2	2.53	0.56
1:CA:1385:G:C2'	1:CA:1386:G:H5'	2.36	0.56
1:CA:1507:A:C2	1:CA:1508:G:C4	2.92	0.56
2:CB:100:GLY:O	2:CB:104:ASN:N	2.38	0.56
4:CD:28:SER:HB3	4:CD:30:LYS:HG2	1.87	0.56
8:CH:30:ARG:HB3	8:CH:30:ARG:NH1	2.21	0.56
8:CH:69:ARG:HD3	8:CH:75:ARG:O	2.05	0.56
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.88	0.56
15:CO:20:GLY:O	15:CO:21:ASP:HB3	2.04	0.56
20:CT:30:LYS:O	20:CT:34:LYS:HG3	2.05	0.56
24:D2:50:ILE:O	24:D2:51:ARG:CB	2.53	0.56
25:D3:30:ARG:O	25:D3:33:GLN:HB3	2.06	0.56
28:D6:27:LYS:HD2	31:DA:2285:C:OP2	2.03	0.56
31:DA:9:U:C5	31:DA:2629:A:N6	2.74	0.56
31:DA:255:A:C6	31:DA:256:A:C5	2.94	0.56
31:DA:637:A:O5'	41:DP:116:GLY:HA2	2.05	0.56
31:DA:834:C:C2'	31:DA:835:A:H5'	2.35	0.56
31:DA:1323:U:OP1	48:DW:98:LYS:HE3	2.03	0.56
31:DA:1383:C:H6	31:DA:1383:C:O5'	1.87	0.56
31:DA:1497:U:H3	31:DA:1578:U:P	2.29	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1659:U:O2'	31:DA:1660:C:H5'	2.05	0.56
31:DA:1918:A:O2'	31:DA:1920:C:N4	2.38	0.56
31:DA:2193:G:H2'	31:DA:2194:G:O4'	2.04	0.56
31:DA:2312:U:H2'	31:DA:2313:C:H5'	1.86	0.56
32:DB:41:U:O4	36:DG:72:ARG:HG2	2.06	0.56
34:DE:7:VAL:HG22	34:DE:7:VAL:O	2.05	0.56
34:DE:171:GLU:HB2	34:DE:185:LYS:HG3	1.87	0.56
45:DT:28:VAL:O	45:DT:29:ARG:HB2	2.06	0.56
1:AA:673:G:O3'	6:AF:87:ARG:NH2	2.38	0.56
1:AA:748:C:C4'	1:AA:749:C:O5'	2.53	0.56
1:AA:1090:U:C2	1:AA:1091:U:C5	2.93	0.56
1:AA:1350:A:C5	1:AA:1351:U:C4	2.94	0.56
1:AA:1418:A:H1'	31:BA:1959:G:O4'	2.06	0.56
2:AB:19:HIS:HB2	2:AB:204:ASN:HA	1.87	0.56
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.34	0.56
2:AB:219:VAL:HA	2:AB:222:ILE:HD12	1.88	0.56
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.21	0.56
4:AD:88:VAL:HG13	5:AE:97:GLY:HA3	1.86	0.56
6:AF:2:ARG:HB2	6:AF:4:TYR:CE2	2.40	0.56
9:AI:112:LYS:HE3	9:AI:116:LYS:O	2.05	0.56
27:B5:40:LYS:HZ1	27:B5:49:CYS:HB2	1.69	0.56
28:B6:37:ARG:O	28:B6:48:VAL:O	2.23	0.56
29:B7:5:TRP:HA	29:B7:5:TRP:CE3	2.39	0.56
31:BA:35:G:H2'	31:BA:36:G:O4'	2.06	0.56
31:BA:128:C:H2'	31:BA:129:C:C6	2.40	0.56
31:BA:528:A:C2	31:BA:2043:C:C5'	2.89	0.56
31:BA:826:U:H2'	31:BA:828:U:O4'	2.06	0.56
31:BA:1022:G:C5	31:BA:1140:C:C4	2.94	0.56
31:BA:1509(B):A:H2'	31:BA:1510:G:C8	2.40	0.56
31:BA:1684:C:C2	31:BA:1705:G:C2	2.94	0.56
31:BA:2376:A:N1	44:BS:94:TYR:HB2	2.21	0.56
31:BA:2516:G:O2'	31:BA:2517:C:H5'	2.05	0.56
32:BB:41:U:O4	36:BG:72:ARG:HG2	2.06	0.56
33:BD:35:LYS:HG2	33:BD:64:ILE:H	1.69	0.56
35:BF:95:ARG:HG3	35:BF:97:TYR:CE2	2.40	0.56
36:BG:45:GLU:HG2	36:BG:47:LYS:H	1.70	0.56
41:BP:38:GLN:HG3	41:BP:39:LYS:N	2.08	0.56
47:BV:24:LYS:HA	47:BV:94:LEU:HD12	1.87	0.56
47:BV:36:PRO:CD	47:BV:60:GLU:O	2.53	0.56
47:BV:90:PRO:CD	47:BV:91:TYR:N	2.68	0.56
50:BY:76:CYS:SG	50:BY:77:PRO:CD	2.91	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:128:VAL:CG2	51:BZ:161:VAL:HG22	2.36	0.56
1:CA:233:C:O2'	1:CA:234:C:H5'	2.05	0.56
1:CA:948:C:C5	13:CM:106:ASN:ND2	2.74	0.56
1:CA:1190:G:OP1	3:CC:4:LYS:HA	2.05	0.56
1:CA:1226:C:H2'	13:CM:103:THR:OG1	2.06	0.56
2:CB:8:LYS:NZ	2:CB:217:ARG:HH11	2.04	0.56
2:CB:19:HIS:HB2	2:CB:204:ASN:HA	1.88	0.56
2:CB:80:ILE:HD13	2:CB:208:ILE:HG23	1.88	0.56
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.73	0.56
4:CD:18:LYS:HE3	4:CD:31:CYS:SG	2.46	0.56
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.30	0.56
8:CH:86:ILE:O	8:CH:88:LYS:HG2	2.06	0.56
9:CI:16:ARG:O	9:CI:63:ILE:HA	2.06	0.56
16:CP:49:LEU:O	16:CP:50:LYS:HB2	2.04	0.56
27:D5:8:LYS:HD2	31:DA:2056:G:O2'	2.05	0.56
31:DA:342:G:H2'	31:DA:343:C:H6	1.70	0.56
31:DA:792:G:N3	31:DA:2072:G:O2'	2.35	0.56
31:DA:892:G:N1	31:DA:894:C:N4	2.53	0.56
31:DA:1349:A:N6	31:DA:1598:C:N4	2.53	0.56
31:DA:1420:U:O2'	31:DA:1421:G:C5'	2.53	0.56
31:DA:1532:C:O5'	31:DA:1532:C:C6	2.58	0.56
31:DA:1638:C:H5''	31:DA:2710:C:O2'	2.06	0.56
31:DA:1881:C:C4	31:DA:1882:C:C5	2.93	0.56
31:DA:2065:C:H2'	31:DA:2066:C:H6	1.71	0.56
31:DA:2205:C:C2	31:DA:2220:G:C2	2.94	0.56
31:DA:2227:A:H5'	33:DD:263:ARG:HB3	1.87	0.56
31:DA:2657:A:H3'	31:DA:2658:C:O4'	2.05	0.56
31:DA:2759:G:O2'	31:DA:2760:C:H5'	2.04	0.56
32:DB:37:C:O2	32:DB:37:C:C2'	2.53	0.56
33:DD:186:HIS:HD2	33:DD:188:GLU:H	1.53	0.56
39:DN:121:LYS:HG3	39:DN:123:TYR:CE1	2.40	0.56
41:DP:36:LYS:O	41:DP:38:GLN:HG2	2.06	0.56
43:DR:54:LEU:HB3	43:DR:66:VAL:CG2	2.34	0.56
43:DR:97:VAL:HG22	43:DR:114:VAL:HG13	1.88	0.56
44:DS:35:ILE:HD13	44:DS:35:ILE:O	2.06	0.56
46:DU:61:TRP:CE2	46:DU:94:ASN:HA	2.41	0.56
48:DW:86:LEU:C	48:DW:86:LEU:HD12	2.25	0.56
50:DY:8:LYS:HB2	50:DY:28:LYS:HZ3	1.70	0.56
1:AA:78:G:H22	1:AA:91:C:H42	1.54	0.56
1:AA:81:U:N3	1:AA:83:U:H5	2.04	0.56
1:AA:514:C:H2'	1:AA:515:G:H8	1.70	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:519:C:C2'	1:AA:520:A:O5'	2.53	0.56
1:AA:877:C:H5''	8:AH:88:LYS:CE	2.33	0.56
3:AC:11:ARG:HB3	3:AC:15:THR:HB	1.86	0.56
6:AF:14:LEU:O	6:AF:19:LEU:HD12	2.04	0.56
6:AF:94:GLN:HE21	18:AR:32:ARG:NH1	2.04	0.56
7:AG:31:MET:SD	7:AG:34:GLY:HA2	2.46	0.56
9:AI:17:VAL:HG22	9:AI:63:ILE:HG12	1.87	0.56
10:AJ:26:ALA:HB1	10:AJ:29:ARG:NH2	2.16	0.56
11:AK:22:HIS:O	11:AK:28:THR:HG23	2.05	0.56
17:AQ:5:VAL:CG1	17:AQ:6:LEU:N	2.69	0.56
27:B5:46:CYS:O	27:B5:48:GLU:OE1	2.24	0.56
30:B8:5:LYS:HE2	31:BA:254:G:N7	2.21	0.56
31:BA:250:G:C6	31:BA:251:A:C6	2.94	0.56
31:BA:287:C:N4	31:BA:354:G:H1	1.92	0.56
31:BA:473:G:H2'	31:BA:474:G:O5'	2.05	0.56
31:BA:602:G:H8	31:BA:602:G:OP2	1.89	0.56
31:BA:2259:G:C2	31:BA:2282:G:N1	2.74	0.56
31:BA:2299:G:C6	31:BA:2318:G:C8	2.94	0.56
55:BA:3362:TEL:H121	55:BA:3362:TEL:C23	2.36	0.56
33:BD:64:ILE:HG12	33:BD:64:ILE:O	2.05	0.56
33:BD:159:ALA:C	33:BD:161:THR:H	2.08	0.56
36:BG:120:LEU:HG	36:BG:179:PRO:O	2.05	0.56
37:BH:164:TYR:C	37:BH:166:GLY:H	2.07	0.56
40:BO:7:TYR:CE1	40:BO:20:MET:HB2	2.40	0.56
42:BQ:82:ARG:O	42:BQ:83:MET:CB	2.53	0.56
42:BQ:132:VAL:CG1	51:BZ:81:ARG:HD2	2.35	0.56
45:BT:80:SER:CB	45:BT:81:PRO:HD3	2.35	0.56
1:CA:41:G:C4	1:CA:402:G:C2	2.94	0.56
1:CA:198:G:H21	1:CA:199:G:H1'	1.70	0.56
1:CA:509:A:C4'	1:CA:510:A:OP1	2.54	0.56
1:CA:735:C:H1'	18:CR:75:ILE:HD11	1.87	0.56
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.71	0.56
1:CA:1210:C:H5'	1:CA:1214:C:N4	2.21	0.56
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.87	0.56
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.71	0.56
2:CB:15:VAL:HG23	2:CB:16:HIS:CE1	2.41	0.56
3:CC:124:ILE:HG13	3:CC:130:VAL:HG22	1.88	0.56
4:CD:24:GLU:O	4:CD:27:TYR:N	2.29	0.56
5:CE:76:ILE:HD11	5:CE:142:LEU:HD11	1.88	0.56
9:CI:17:VAL:HG22	9:CI:63:ILE:HG12	1.86	0.56
9:CI:112:LYS:HE3	9:CI:116:LYS:O	2.05	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:37:THR:HG22	13:CM:59:TYR:HB3	1.86	0.56
22:D0:43:THR:HG21	31:DA:2336:A:H61	1.70	0.56
23:D1:87:PRO:HD2	23:D1:88:LYS:N	2.19	0.56
27:D5:55:ARG:O	27:D5:56:LYS:HG3	2.06	0.56
31:DA:196:A:C4	31:DA:805:G:C6	2.94	0.56
31:DA:272:G:C4'	31:DA:272(B):G:O5'	2.54	0.56
31:DA:343:C:H2'	31:DA:343:C:O2	2.04	0.56
31:DA:412:A:N7	31:DA:2411:A:H2	2.03	0.56
31:DA:542:C:H42	31:DA:543:C:H42	1.51	0.56
31:DA:669:G:C8	31:DA:669:G:H5'	2.41	0.56
31:DA:1131:G:O6	31:DA:2040:C:H1'	2.05	0.56
31:DA:1204:A:N1	31:DA:1241:A:C2	2.74	0.56
31:DA:1652:A:C2'	31:DA:1653:G:H5'	2.36	0.56
31:DA:1887:C:C2'	31:DA:1888:G:C5'	2.82	0.56
31:DA:2263:C:O2'	31:DA:2264:C:H5'	2.06	0.56
31:DA:2646:C:H2'	31:DA:2647:U:O4'	2.06	0.56
31:DA:2751:G:H3'	31:DA:2752:C:C6	2.37	0.56
32:DB:116:G:C2	32:DB:117:G:C8	2.94	0.56
35:DF:20:LEU:HD13	35:DF:199:TRP:CH2	2.40	0.56
37:DH:158:HIS:CE1	37:DH:168:PRO:CG	2.88	0.56
39:DN:15:LEU:HD21	39:DN:55:VAL:HG22	1.88	0.56
41:DP:100:LEU:O	41:DP:103:ALA:N	2.39	0.56
45:DT:106:SER:O	45:DT:107:ASP:CB	2.53	0.56
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.85	0.56
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.71	0.56
9:AI:86:VAL:HB	9:AI:96:LEU:HD22	1.87	0.56
10:AJ:51:ARG:CG	10:AJ:61:GLU:HB2	2.36	0.56
24:B2:26:ARG:N	24:B2:26:ARG:CD	2.69	0.56
24:B2:30:ARG:HG3	24:B2:30:ARG:HH11	1.70	0.56
27:B5:41:PRO:O	27:B5:42:PRO:C	2.44	0.56
30:B8:39:LYS:O	30:B8:39:LYS:HG2	2.05	0.56
31:BA:197:A:H5'	31:BA:197:A:C8	2.37	0.56
31:BA:259:G:O2'	31:BA:260:G:H5'	2.06	0.56
31:BA:272:G:C4'	31:BA:272(B):G:O5'	2.53	0.56
31:BA:521:G:O2'	31:BA:522:G:H5'	2.06	0.56
31:BA:1040:C:O2'	31:BA:1041:C:P	2.64	0.56
31:BA:1549:C:O2'	31:BA:1550:C:H5'	2.06	0.56
31:BA:2041:U:H2'	31:BA:2042:A:C8	2.40	0.56
31:BA:2207:G:O2'	31:BA:2208:A:H5''	2.06	0.56
31:BA:2314:C:H2'	31:BA:2315:G:H8	1.70	0.56
31:BA:2769:C:H2'	31:BA:2770:G:O5'	2.06	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:63:ARG:HG3	33:BD:63:ARG:NH1	2.19	0.56
37:BH:67:LEU:O	37:BH:71:LEU:HB2	2.06	0.56
37:BH:103:LEU:HD22	37:BH:123:PHE:CE2	2.41	0.56
47:BV:19:LYS:CE	47:BV:20:LEU:H	2.19	0.56
47:BV:79:VAL:HG23	47:BV:82:ARG:HD2	1.86	0.56
1:CA:405:U:H3'	1:CA:406:G:H5'	1.86	0.56
1:CA:719:C:H3'	1:CA:720:C:H6	1.71	0.56
1:CA:918:A:O2'	1:CA:919:A:H5'	2.05	0.56
1:CA:980:C:H5'	1:CA:981:U:C5	2.41	0.56
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.41	0.56
2:CB:194:PRO:O	2:CB:196:LEU:N	2.38	0.56
4:CD:135:LEU:C	4:CD:137:SER:H	2.08	0.56
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB2	1.88	0.56
11:CK:79:SER:O	11:CK:80:VAL:HG13	2.06	0.56
12:CL:21:LYS:HD2	12:CL:21:LYS:H	1.70	0.56
16:CP:19:ILE:HG22	16:CP:36:ILE:HG13	1.87	0.56
24:D2:12:GLU:CA	24:D2:14:ARG:HH21	2.18	0.56
31:DA:245:G:C5	31:DA:246:C:C5	2.94	0.56
31:DA:352:G:N2	31:DA:355:G:OP2	2.39	0.56
31:DA:727:A:H2	33:DD:9:TYR:CD2	2.24	0.56
31:DA:1018:C:O2'	31:DA:1019:U:H5'	2.05	0.56
31:DA:1297:C:H2'	31:DA:1298:C:H6	1.71	0.56
31:DA:2636:U:OP1	34:DE:80:GLU:N	2.38	0.56
31:DA:2852:G:H2'	31:DA:2853:C:O4'	2.06	0.56
31:DA:2884:U:H2'	31:DA:2885:C:O4'	2.06	0.56
32:DB:60:C:C2	32:DB:61:G:C8	2.94	0.56
35:DF:52:LYS:HB3	35:DF:56:GLU:HB3	1.86	0.56
40:DO:13:ASN:ND2	40:DO:97:ARG:H	2.04	0.56
40:DO:23:ARG:HD2	40:DO:24:VAL:N	2.21	0.56
48:DW:71:VAL:HA	48:DW:107:LEU:HD12	1.88	0.56
1:AA:66:G:O4'	1:AA:173:U:C4	2.59	0.56
1:AA:189:G:C6	1:AA:189(L):G:N1	2.74	0.56
1:AA:473:G:O2'	1:AA:474:G:H5'	2.05	0.56
1:AA:629:G:C4	1:AA:630:G:C8	2.93	0.56
1:AA:734:G:C2	1:AA:735:C:C2	2.94	0.56
1:AA:833:U:H2'	1:AA:834:C:H6	1.70	0.56
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.41	0.56
1:AA:1310:G:OP1	13:AM:77:ASN:HB3	2.06	0.56
2:AB:61:LEU:HD21	2:AB:68:ILE:HD11	1.88	0.56
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.34	0.56
6:AF:75:LEU:CD2	6:AF:79:LEU:HD11	2.36	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:46:ALA:O	9:AI:49:PRO:HD2	2.06	0.56
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.06	0.56
30:B8:22:VAL:HB	30:B8:53:PRO:CB	2.35	0.56
31:BA:108:U:O2'	31:BA:109:G:H5'	2.06	0.56
31:BA:151:C:C2'	31:BA:152:G:H5'	2.36	0.56
31:BA:271(J):C:H5'	31:BA:271(K):U:OP2	2.05	0.56
31:BA:363(E):U:OP2	31:BA:363(E):U:H6	1.89	0.56
31:BA:444:C:H4'	35:BF:49:ALA:HB2	1.88	0.56
31:BA:993:G:C5'	47:BV:75:PHE:CE2	2.89	0.56
31:BA:1420:U:O2'	31:BA:1421:G:C5'	2.54	0.56
31:BA:1459:G:C8	31:BA:1461:G:C1'	2.87	0.56
31:BA:1532:C:C6	31:BA:1532:C:O5'	2.59	0.56
31:BA:1844:C:O2'	31:BA:1845:G:H5'	2.06	0.56
31:BA:1858:G:H1'	31:BA:1884:A:H61	1.70	0.56
31:BA:1882:C:H3'	31:BA:1883:G:H8	1.71	0.56
31:BA:2663:G:C8	31:BA:2664:G:C5	2.94	0.56
31:BA:2759:G:O2'	31:BA:2760:C:H5'	2.06	0.56
31:BA:2852:G:H2'	31:BA:2853:C:O4'	2.06	0.56
33:BD:35:LYS:HE2	33:BD:104:TYR:HB2	1.88	0.56
36:BG:16:ARG:CA	36:BG:19:LEU:HD12	2.32	0.56
36:BG:173:LEU:HB3	36:BG:178:PHE:CG	2.41	0.56
40:BO:20:MET:HE3	40:BO:44:LYS:HE3	1.86	0.56
49:BX:10:ALA:O	49:BX:28:PHE:HB3	2.06	0.56
49:BX:21:PHE:HB3	49:BX:90:GLU:HG3	1.88	0.56
50:BY:45:VAL:CG1	50:BY:62:GLU:OE2	2.54	0.56
51:BZ:142:SER:H	51:BZ:144:LEU:CD2	2.19	0.56
1:CA:358:U:O2'	1:CA:359:U:C5'	2.53	0.56
1:CA:519:C:H2'	1:CA:520:A:O5'	2.06	0.56
1:CA:1378:C:N4	1:CA:1379:G:C2	2.73	0.56
4:CD:108:LEU:O	4:CD:110:PHE:CD1	2.59	0.56
8:CH:38:ILE:HD11	8:CH:118:VAL:O	2.06	0.56
27:D5:42:PRO:HB2	27:D5:43:HIS:HD2	1.71	0.56
30:D8:22:VAL:HB	30:D8:53:PRO:HB2	1.87	0.56
31:DA:128:C:H4'	31:DA:129:C:OP1	2.05	0.56
31:DA:218:A:C2	31:DA:235:U:H4'	2.41	0.56
31:DA:593:G:H2'	31:DA:594:U:C6	2.41	0.56
31:DA:892:G:H1	31:DA:894:C:H41	1.54	0.56
31:DA:1331:A:H2'	31:DA:1333:C:C5	2.41	0.56
31:DA:1683:C:H2'	31:DA:1684:C:H6	1.71	0.56
31:DA:2203:U:O2'	33:DD:151:LYS:HG2	2.05	0.56
31:DA:2347:C:H2'	31:DA:2348:U:H6	1.69	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2507:C:H5''	31:DA:2573:C:N4	2.21	0.56
34:DE:75:VAL:C	34:DE:77:ILE:N	2.59	0.56
36:DG:43:LEU:CD1	36:DG:153:ARG:HD2	2.36	0.56
36:DG:94:LEU:HG	36:DG:99:MET:HA	1.88	0.56
37:DH:126:PRO:HG3	37:DH:130:ARG:HB3	1.87	0.56
38:DI:132:PRO:C	38:DI:133:HIS:HD2	2.09	0.56
39:DN:121:LYS:HE2	39:DN:123:TYR:CZ	2.41	0.56
42:DQ:141:GLN:NE2	51:DZ:70:LEU:HB2	2.21	0.56
45:DT:34:VAL:O	45:DT:35:LYS:HB3	2.06	0.56
49:DX:25:LYS:HG3	49:DX:26:TYR:CD1	2.40	0.56
49:DX:82:GLN:OE1	49:DX:83:VAL:HG22	2.06	0.56
1:AA:110:C:H2'	1:AA:111:G:O4'	2.05	0.56
1:AA:233:C:O2'	1:AA:234:C:H5'	2.06	0.56
1:AA:425:G:C2'	1:AA:426:G:H5'	2.36	0.56
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.71	0.56
1:AA:1496:C:H4'	31:BA:1920:C:O2'	2.05	0.56
2:AB:22:LYS:NZ	2:AB:40:HIS:HE1	2.04	0.56
2:AB:194:PRO:O	2:AB:196:LEU:N	2.38	0.56
3:AC:181:ASN:O	3:AC:204:LEU:HB2	2.06	0.56
4:AD:138:TYR:CD2	4:AD:139:ARG:N	2.66	0.56
7:AG:115:ARG:HB2	7:AG:118:VAL:HG22	1.88	0.56
8:AH:136:GLU:O	8:AH:136:GLU:HG3	2.06	0.56
11:AK:72:ALA:O	11:AK:77:MET:HB2	2.04	0.56
25:B3:52:HIS:ND1	32:BB:83:G:H5''	2.21	0.56
29:B7:8:ASN:ND2	29:B7:10:ARG:H	2.04	0.56
31:BA:142:A:H5''	31:BA:142(A):C:C5	2.40	0.56
31:BA:484:C:H2'	31:BA:485:C:C6	2.41	0.56
31:BA:721:C:O2	31:BA:721:C:C2'	2.50	0.56
31:BA:945:A:C4	31:BA:2448:A:C2	2.94	0.56
31:BA:1168:G:H2'	31:BA:1169:G:C8	2.41	0.56
31:BA:1428:C:O2'	31:BA:1429:G:H5'	2.06	0.56
31:BA:1688:U:H1'	31:BA:1701:A:C5	2.41	0.56
31:BA:2360:A:O2'	31:BA:2361:A:C5'	2.54	0.56
31:BA:2636:U:OP1	34:BE:80:GLU:N	2.39	0.56
31:BA:2688:U:H1'	31:BA:2721:A:N6	2.21	0.56
31:BA:2884:U:C5	31:BA:2885:C:C5	2.94	0.56
32:BB:21:G:C6	32:BB:63:G:N2	2.73	0.56
34:BE:188:VAL:HG23	34:BE:189:PRO:HD2	1.88	0.56
36:BG:96:ARG:CG	36:BG:97:ASP:H	2.19	0.56
40:BO:104:ARG:NH2	45:BT:33:LYS:HD2	2.21	0.56
40:BO:115:VAL:HG13	40:BO:121:VAL:HG21	1.88	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:7:ARG:O	41:BP:7:ARG:NH1	2.39	0.56
41:BP:146:VAL:HG13	41:BP:147:LEU:N	2.18	0.56
51:BZ:167:PRO:O	51:BZ:168:GLU:HB2	2.06	0.56
1:CA:229:U:H2'	1:CA:230:G:C8	2.41	0.56
1:CA:339:C:O2'	1:CA:340:U:H5'	2.06	0.56
1:CA:775:G:C2'	1:CA:776:G:H5'	2.36	0.56
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.05	0.56
1:CA:881:G:P	12:CL:12:ARG:HH22	2.29	0.56
1:CA:955:U:C1'	1:CA:1227:A:H61	2.18	0.56
1:CA:1162:C:H2'	1:CA:1163:C:H6	1.71	0.56
1:CA:1433:A:C6	1:CA:1434:A:C6	2.94	0.56
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.32	0.56
6:CF:99:ALA:HB1	18:CR:23:LYS:HZ2	1.71	0.56
19:CS:80:TYR:O	19:CS:80:TYR:CG	2.59	0.56
27:D5:46:CYS:O	27:D5:48:GLU:N	2.39	0.56
31:DA:71:A:C8	31:DA:71:A:C5'	2.85	0.56
31:DA:176:G:C2'	31:DA:177:G:H5'	2.36	0.56
31:DA:376:C:H2'	31:DA:377:C:H6	1.69	0.56
31:DA:389:G:H1	41:DP:71:VAL:HB	1.69	0.56
31:DA:581:C:H2'	31:DA:582:G:C8	2.41	0.56
31:DA:705:A:C2	31:DA:727:A:H1'	2.41	0.56
31:DA:1476:C:H2'	31:DA:1477:A:C8	2.41	0.56
31:DA:1784:A:H4'	31:DA:1785:A:C5'	2.36	0.56
31:DA:1812:A:C2	31:DA:1813:G:C5	2.94	0.56
31:DA:2273:A:H2'	31:DA:2274:A:H8	1.70	0.56
31:DA:2637:U:C2'	31:DA:2638:G:H5'	2.35	0.56
34:DE:102:VAL:HB	34:DE:199:ARG:O	2.06	0.56
35:DF:127:GLU:HA	35:DF:127:GLU:OE1	2.06	0.56
37:DH:152:ARG:H	37:DH:162:ILE:HD11	1.71	0.56
39:DN:68:GLU:HG3	39:DN:88:GLU:OE1	2.05	0.56
40:DO:87:ILE:CG2	40:DO:91:LEU:HA	2.35	0.56
41:DP:24:GLY:HA3	41:DP:33:ARG:NH2	2.21	0.56
42:DQ:18:LYS:O	42:DQ:19:GLY:C	2.44	0.56
42:DQ:73:PRO:HA	42:DQ:93:TYR:CD2	2.41	0.56
42:DQ:132:VAL:CG1	51:DZ:81:ARG:HD2	2.35	0.56
45:DT:25:GLY:O	45:DT:26:ASP:CB	2.54	0.56
49:DX:73:ARG:H	49:DX:74:PRO:HD3	1.69	0.56
1:AA:177:C:O2'	1:AA:178:C:H5'	2.07	0.55
1:AA:955:U:C1'	1:AA:1227:A:H61	2.17	0.55
1:AA:1190:G:OP1	3:AC:4:LYS:HA	2.06	0.55
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.06	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:20:TYR:CE1	8:AH:76:PRO:HG2	2.41	0.55
9:AI:10:ARG:HG2	9:AI:104:ARG:O	2.06	0.55
10:AJ:32:ALA:H	10:AJ:78:ASN:HD21	1.54	0.55
11:AK:62:GLN:O	11:AK:64:ALA:N	2.39	0.55
20:AT:32:ALA:O	20:AT:36:LEU:HB2	2.06	0.55
31:BA:102:G:O2'	31:BA:103:A:OP2	2.23	0.55
31:BA:176:G:O2'	31:BA:177:G:H5'	2.05	0.55
31:BA:218:A:C2	31:BA:235:U:H4'	2.41	0.55
31:BA:448:U:H3'	31:BA:449:A:C5'	2.36	0.55
31:BA:647:G:H2'	31:BA:648:G:O4'	2.06	0.55
31:BA:651:G:H2'	31:BA:651:G:N3	2.22	0.55
31:BA:1230:C:O5'	31:BA:1230:C:H6	1.90	0.55
31:BA:2698:U:H2'	31:BA:2699:C:C6	2.41	0.55
31:BA:2859:G:H4'	31:BA:2860:A:OP1	2.06	0.55
32:BB:16:G:C2	32:BB:17:C:C6	2.93	0.55
32:BB:57:A:N3	36:BG:29:TRP:HB2	2.21	0.55
32:BB:57:A:H8	36:BG:27:ASN:HB3	1.69	0.55
34:BE:9:VAL:CG2	34:BE:25:VAL:HB	2.35	0.55
34:BE:49:LEU:HD23	34:BE:81:ILE:HG12	1.88	0.55
35:BF:36:VAL:O	35:BF:39:TRP:HB3	2.06	0.55
36:BG:141:PHE:C	36:BG:143:GLU:H	2.10	0.55
37:BH:85:LYS:NZ	37:BH:145:ALA:CA	2.69	0.55
41:BP:85:LEU:HD23	41:BP:117:GLU:O	2.06	0.55
43:BR:103:ARG:HB3	43:BR:110:PRO:HA	1.88	0.55
44:BS:90:GLY:C	44:BS:92:TYR:H	2.08	0.55
45:BT:129:ARG:HD2	45:BT:130:ALA:N	2.20	0.55
47:BV:2:PHE:CB	47:BV:42:GLY:CA	2.75	0.55
49:BX:9:LEU:HD12	49:BX:30:VAL:C	2.26	0.55
49:BX:52:VAL:HG21	49:BX:82:GLN:HA	1.88	0.55
1:CA:84:U:H5	1:CA:88:A:N9	2.04	0.55
1:CA:509:A:C5'	4:CD:55:ALA:HB2	2.35	0.55
1:CA:782:A:H4'	1:CA:1514:C:O2'	2.06	0.55
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.35	0.55
2:CB:32:ILE:HD12	2:CB:41:ILE:O	2.05	0.55
12:CL:6:THR:HG23	12:CL:9:GLN:NE2	2.21	0.55
30:D8:60:LEU:C	30:D8:63:PRO:HD2	2.26	0.55
31:DA:73:A:H2'	31:DA:74:A:OP2	2.05	0.55
31:DA:729:G:H4'	31:DA:763:G:H5'	1.87	0.55
31:DA:768:G:C6	31:DA:769:G:C5	2.94	0.55
31:DA:966:G:C5	31:DA:967:C:C5	2.95	0.55
31:DA:1341:U:H5'	49:DX:57:LEU:HG	1.87	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1374:G:C2	31:DA:1375:C:C2	2.94	0.55
31:DA:1389:G:C2	31:DA:1390:U:C2	2.94	0.55
31:DA:1509(B):A:H2'	31:DA:1510:G:C8	2.41	0.55
31:DA:2070:G:H2'	31:DA:2071:A:C8	2.41	0.55
31:DA:2334:G:OP1	31:DA:2334:G:H8	1.90	0.55
32:DB:50:G:P	44:DS:63:THR:HG23	2.46	0.55
33:DD:221:VAL:HG22	33:DD:226:MET:CE	2.37	0.55
36:DG:57:ALA:HB2	36:DG:90:LEU:HD21	1.87	0.55
38:DI:76:THR:HG21	38:DI:141:LYS:HE3	1.88	0.55
41:DP:47:ASP:HB3	41:DP:48:PRO:O	2.06	0.55
47:DV:79:VAL:HG23	47:DV:82:ARG:HD2	1.88	0.55
51:DZ:71:VAL:HG22	51:DZ:88:PHE:HE2	1.70	0.55
1:AA:189(B):C:N4	1:AA:189(J):G:N1	2.54	0.55
1:AA:299:G:N7	1:AA:300:A:N6	2.54	0.55
1:AA:1394:A:C5	1:AA:1501:C:H4'	2.41	0.55
1:AA:1432:G:P	45:BT:107:ASP:HB2	2.46	0.55
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.87	0.55
3:AC:104:GLN:CD	3:AC:105:GLU:H	2.08	0.55
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.70	0.55
5:AE:78:HIS:HD2	8:AH:104:ARG:NE	2.04	0.55
8:AH:58:TYR:O	8:AH:59:LEU:HD23	2.05	0.55
16:AP:49:LEU:O	16:AP:50:LYS:HB2	2.06	0.55
20:AT:50:GLU:O	20:AT:54:LYS:HB2	2.05	0.55
22:B0:40:GLN:NE2	22:B0:43:THR:CA	2.69	0.55
22:B0:43:THR:H	31:BA:2331:G:H4'	1.70	0.55
25:B3:27:GLY:HA3	25:B3:35:ARG:NE	2.21	0.55
27:B5:40:LYS:NZ	27:B5:46:CYS:O	2.34	0.55
27:B5:46:CYS:CB	27:B5:47:PRO:HD2	2.35	0.55
31:BA:8:A:H2	31:BA:2896:C:N3	2.04	0.55
31:BA:80:G:O2'	31:BA:81:G:H5'	2.07	0.55
31:BA:114:U:H3'	31:BA:115:C:H6	1.72	0.55
31:BA:528:A:C2	31:BA:2043:C:H5'	2.41	0.55
31:BA:673:C:H4'	35:BF:82:ILE:HG12	1.88	0.55
31:BA:675:A:OP1	35:BF:63:LYS:HE2	2.05	0.55
31:BA:993:G:H21	47:BV:91:TYR:HH	1.54	0.55
31:BA:1497:U:H2'	31:BA:1497:U:O2	2.06	0.55
31:BA:1796:U:O3'	33:BD:256:GLY:HA2	2.07	0.55
31:BA:1990:C:H2'	31:BA:1991:U:C6	2.41	0.55
31:BA:2452:C:H2'	31:BA:2453:A:O4'	2.06	0.55
31:BA:2808:U:H2'	31:BA:2809:A:H5'	1.88	0.55
33:BD:16:MET:HG3	33:BD:206:LEU:O	2.07	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:224:ALA:HB2	33:BD:233:HIS:HB3	1.89	0.55
36:BG:101:ILE:HD11	36:BG:105:LYS:HE3	1.89	0.55
36:BG:129:GLY:O	36:BG:130:ASN:ND2	2.39	0.55
38:BI:101:LEU:HG	38:BI:109:ILE:HG12	1.87	0.55
41:BP:29:LYS:H	41:BP:29:LYS:CD	2.11	0.55
42:BQ:8:LYS:CG	42:BQ:9:TYR:N	2.69	0.55
44:BS:73:LEU:O	44:BS:77:ALA:N	2.31	0.55
46:BU:88:ILE:HD12	46:BU:88:ILE:N	2.20	0.55
47:BV:2:PHE:CD2	47:BV:42:GLY:HA2	2.41	0.55
47:BV:60:GLU:OE2	47:BV:100:ARG:O	2.24	0.55
49:BX:80:ILE:O	49:BX:81:VAL:HB	2.07	0.55
50:BY:37:VAL:O	50:BY:38:ILE:CB	2.34	0.55
1:CA:137:C:N3	1:CA:227:G:C2	2.74	0.55
1:CA:141:A:H4'	1:CA:182:U:H1'	1.88	0.55
1:CA:173:U:O4'	1:CA:197:A:C4	2.58	0.55
1:CA:577:G:C2	1:CA:578:C:C6	2.94	0.55
1:CA:1202:G:H2'	1:CA:1203:C:O4'	2.06	0.55
2:CB:61:LEU:HD21	2:CB:68:ILE:HD11	1.87	0.55
2:CB:73:THR:HG22	2:CB:95:GLN:O	2.06	0.55
5:CE:34:VAL:O	5:CE:41:VAL:HA	2.06	0.55
23:D1:60:PHE:HZ	23:D1:90:ILE:HG21	1.71	0.55
27:D5:4:HIS:HB3	27:D5:5:PRO:CD	2.36	0.55
31:DA:83:G:H1	31:DA:102:G:H2'	1.71	0.55
31:DA:259:G:O2'	31:DA:260:G:H5'	2.06	0.55
31:DA:271(Q):G:N3	31:DA:271(R):G:C8	2.74	0.55
31:DA:473:G:C2'	31:DA:474:G:O5'	2.55	0.55
31:DA:662:G:P	41:DP:18:ARG:HD2	2.46	0.55
31:DA:815:C:H2'	31:DA:816:C:H6	1.71	0.55
31:DA:1140:C:O3'	39:DN:25:ARG:NH1	2.38	0.55
31:DA:1225:G:P	47:DV:88:ARG:HB3	2.46	0.55
31:DA:1459:G:H5''	31:DA:1460:A:OP2	2.06	0.55
31:DA:1478:G:O2'	31:DA:1558:A:H2	1.90	0.55
31:DA:1639:U:O2'	31:DA:1640:C:H5''	2.05	0.55
31:DA:2069:G:H2'	31:DA:2070:G:H5'	1.87	0.55
31:DA:2287:A:C2	31:DA:2289:G:C1'	2.89	0.55
33:DD:27:THR:O	33:DD:28:GLU:HB2	2.06	0.55
38:DI:29:TYR:O	38:DI:32:PRO:HD2	2.06	0.55
39:DN:89:LYS:O	39:DN:93:THR:HG22	2.06	0.55
41:DP:83:VAL:HG23	41:DP:105:LEU:HD22	1.87	0.55
41:DP:101:VAL:HB	41:DP:107:LYS:N	2.17	0.55
45:DT:30:VAL:HG21	45:DT:83:ILE:HG13	1.86	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:106:SER:HB2	45:DT:110:ILE:CD1	2.35	0.55
49:DX:80:ILE:O	49:DX:81:VAL:HB	2.04	0.55
1:AA:690:G:OP2	11:AK:27:ASN:HB3	2.06	0.55
1:AA:782:A:H4'	1:AA:1514:C:O2'	2.06	0.55
1:AA:980:C:H5'	1:AA:981:U:C5	2.42	0.55
4:AD:28:SER:HB3	4:AD:30:LYS:HG2	1.88	0.55
5:AE:15:ARG:HD2	5:AE:26:PHE:CD2	2.41	0.55
6:AF:61:LEU:HD23	6:AF:63:TYR:OH	2.06	0.55
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.41	0.55
13:AM:61:GLU:HG3	13:AM:66:LEU:HD11	1.86	0.55
15:AO:20:GLY:O	15:AO:21:ASP:HB3	2.07	0.55
31:BA:271(P):C:O2	31:BA:271(P):C:H2'	2.04	0.55
31:BA:1476:C:H2'	31:BA:1477:A:C8	2.42	0.55
31:BA:1786:A:C1'	31:BA:1938:A:N6	2.68	0.55
31:BA:1899:G:C2'	31:BA:1900:A:OP2	2.54	0.55
31:BA:2474:C:H5'	31:BA:2475:C:OP2	2.07	0.55
35:BF:115:ALA:O	35:BF:116:ASP:C	2.44	0.55
37:BH:32:GLU:O	37:BH:33:LEU:HD23	2.06	0.55
37:BH:83:TYR:O	37:BH:84:SER:OG	2.24	0.55
40:BO:10:VAL:HG21	40:BO:16:ALA:C	2.26	0.55
41:BP:75:ILE:HD13	41:BP:75:ILE:H	1.70	0.55
41:BP:144:GLU:N	41:BP:145:PRO:CD	2.70	0.55
42:BQ:21:THR:O	42:BQ:22:LYS:HD2	2.06	0.55
42:BQ:104:PHE:HE1	42:BQ:125:LEU:HD11	1.72	0.55
46:BU:36:ARG:HD3	46:BU:40:PHE:HZ	1.70	0.55
1:CA:69:G:H2'	1:CA:70:G:C8	2.40	0.55
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.40	0.55
1:CA:527:G:O2'	1:CA:528:C:H5'	2.07	0.55
1:CA:1072:G:C5	1:CA:1104:G:N1	2.74	0.55
1:CA:1272:G:C6	1:CA:1273:G:C5	2.93	0.55
1:CA:1466:C:C2'	1:CA:1467:G:H5'	2.35	0.55
2:CB:112:VAL:HG22	2:CB:149:LEU:HD13	1.88	0.55
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.71	0.55
6:CF:89:MET:HG2	6:CF:89:MET:O	2.05	0.55
8:CH:13:ILE:O	8:CH:17:THR:HG23	2.06	0.55
11:CK:123:LYS:HA	11:CK:126:ARG:HB3	1.88	0.55
17:CQ:65:ILE:HD12	17:CQ:65:ILE:N	2.21	0.55
17:CQ:76:LEU:HD12	17:CQ:77:VAL:H	1.71	0.55
18:CR:56:THR:OG1	18:CR:58:LEU:HD13	2.06	0.55
20:CT:32:ALA:O	20:CT:36:LEU:HB2	2.05	0.55
23:D1:48:LYS:HD3	23:D1:48:LYS:C	2.25	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:11:LEU:HD11	28:D6:26:ASN:HD21	1.71	0.55
29:D7:8:ASN:HD22	29:D7:9:ARG:N	2.03	0.55
31:DA:41:C:H2'	31:DA:42:G:O4'	2.06	0.55
31:DA:271(U):G:O2'	31:DA:271(V):G:H5'	2.06	0.55
31:DA:287:C:H2'	31:DA:288:C:H5''	1.87	0.55
31:DA:521:G:H2'	31:DA:522:G:H8	1.71	0.55
31:DA:753:C:H2'	31:DA:754:C:H6	1.70	0.55
31:DA:990:A:OP2	31:DA:991:C:OP2	2.24	0.55
31:DA:1106:A:O2'	31:DA:1107:G:O5'	2.24	0.55
31:DA:1287:A:N3	31:DA:1287:A:H2'	2.21	0.55
31:DA:1495:A:C4	31:DA:1496:A:C2	2.94	0.55
31:DA:1507:A:C2	31:DA:1508:A:H1'	2.42	0.55
31:DA:1563:G:C5	31:DA:1564:C:C5	2.95	0.55
31:DA:1802:A:N1	31:DA:1822:G:H1'	2.22	0.55
31:DA:1824:G:C2'	31:DA:1825:A:H5'	2.36	0.55
31:DA:1839:G:C8	31:DA:1839:G:H5'	2.42	0.55
31:DA:2223:G:C2'	31:DA:2224:G:H5'	2.36	0.55
31:DA:2512:C:H2'	31:DA:2513:G:O4'	2.06	0.55
31:DA:2600:A:H2'	31:DA:2601:C:C6	2.42	0.55
55:DA:3320:TEL:O18	55:DA:3320:TEL:C33	2.54	0.55
32:DB:35:U:C4	32:DB:36:C:C4	2.94	0.55
40:DO:101:PRO:HG3	45:DT:67:SER:HB3	1.88	0.55
42:DQ:81:VAL:O	42:DQ:82:ARG:CG	2.48	0.55
45:DT:106:SER:O	45:DT:107:ASP:HB3	2.07	0.55
47:DV:22:VAL:HG21	47:DV:96:ILE:HD12	1.88	0.55
47:DV:29:PRO:O	47:DV:64:HIS:NE2	2.39	0.55
47:DV:33:VAL:HA	47:DV:63:GLY:HA2	1.88	0.55
47:DV:66:ARG:HH11	47:DV:68:LYS:H	1.54	0.55
48:DW:16:LYS:O	48:DW:19:LEU:HB2	2.06	0.55
50:DY:83:THR:CG2	50:DY:94:LYS:HB3	2.36	0.55
1:AA:541:G:H2'	1:AA:542:G:C8	2.38	0.55
1:AA:591:U:H2'	1:AA:592:G:C8	2.41	0.55
1:AA:790:A:C6	1:AA:791:G:C6	2.94	0.55
1:AA:1291:G:O3'	9:AI:39:GLY:HA3	2.06	0.55
9:AI:46:ALA:HB2	9:AI:74:ILE:HG23	1.89	0.55
9:AI:104:ARG:O	9:AI:104:ARG:HG2	2.07	0.55
11:AK:82:VAL:HG21	11:AK:98:LEU:HD12	1.88	0.55
12:AL:18:VAL:O	12:AL:19:ARG:HB3	2.06	0.55
15:AO:55:GLY:O	15:AO:56:LEU:C	2.42	0.55
19:AS:5:LEU:HG	19:AS:10:PHE:HD1	1.72	0.55
24:B2:26:ARG:HG3	49:BX:5:TYR:HB3	1.86	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:4:MET:SD	30:B8:61:LEU:CD1	2.89	0.55
30:B8:35:GLN:HE21	30:B8:36:LYS:HG3	1.71	0.55
31:BA:271(E):U:O5'	31:BA:271(E):U:H6	1.89	0.55
31:BA:352:G:N2	31:BA:355:G:OP2	2.39	0.55
31:BA:354:G:C6	31:BA:355:G:C5	2.95	0.55
31:BA:471:A:H2'	31:BA:472:A:O5'	2.07	0.55
31:BA:534:U:H2'	31:BA:535:C:C6	2.41	0.55
31:BA:971:C:H2'	31:BA:972:G:H5'	1.88	0.55
31:BA:1162:G:O2'	47:BV:92:THR:HG22	2.06	0.55
31:BA:1203:G:H4'	41:BP:7:ARG:HG2	1.88	0.55
31:BA:1312:U:C2	31:BA:1603:A:C2	2.93	0.55
31:BA:1341:U:N3	49:BX:77:LYS:HE2	2.21	0.55
31:BA:1719:G:C6	31:BA:1720:U:C4	2.95	0.55
31:BA:1798:U:H5''	33:BD:259:THR:HB	1.88	0.55
31:BA:2070:G:H2'	31:BA:2071:A:O4'	2.06	0.55
31:BA:2785:C:H2'	31:BA:2786:U:C6	2.41	0.55
31:BA:2808:U:H2'	31:BA:2809:A:C5'	2.37	0.55
32:BB:17:C:O2	32:BB:17:C:C2'	2.53	0.55
32:BB:110:G:N1	32:BB:111:G:C5	2.75	0.55
32:BB:118:G:C2	32:BB:119:G:N7	2.74	0.55
35:BF:36:VAL:HA	35:BF:101:LEU:CD2	2.36	0.55
37:BH:87:LEU:HD13	37:BH:148:ILE:HG21	1.88	0.55
38:BI:10:GLU:O	38:BI:12:LEU:CD2	2.53	0.55
39:BN:34:LEU:HD21	39:BN:120:LEU:HD23	1.89	0.55
45:BT:38:ASN:HD22	45:BT:40:THR:H	1.54	0.55
48:BW:20:VAL:CG2	48:BW:21:VAL:N	2.69	0.55
51:BZ:117:LEU:CB	51:BZ:174:VAL:HG22	2.36	0.55
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.89	0.55
2:CB:136:VAL:O	2:CB:140:HIS:HB2	2.07	0.55
5:CE:48:ALA:HB1	5:CE:49:PRO:HD2	1.87	0.55
8:CH:134:ILE:O	8:CH:135:CYS:HB3	2.05	0.55
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE1	2.41	0.55
15:CO:74:ASP:OD1	15:CO:76:GLU:HB3	2.06	0.55
23:D1:11:ARG:CB	23:D1:12:PRO:HD3	2.36	0.55
24:D2:26:ARG:HG2	49:DX:5:TYR:CB	2.37	0.55
31:DA:27:G:H21	31:DA:512:G:C2'	2.16	0.55
31:DA:534:U:H2'	31:DA:535:C:C6	2.42	0.55
31:DA:773:U:C5'	33:DD:47:GLY:HA2	2.37	0.55
31:DA:904:C:H2'	31:DA:905:U:H5'	1.88	0.55
31:DA:952:G:C6	31:DA:953:A:N7	2.74	0.55
31:DA:971:C:H2'	31:DA:972:G:C5'	2.36	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1190:G:O3'	41:DP:35:HIS:HB3	2.06	0.55
31:DA:2257:U:O2'	31:DA:2258:C:H5'	2.06	0.55
32:DB:57:A:N3	36:DG:29:TRP:HB2	2.21	0.55
36:DG:60:LEU:O	36:DG:60:LEU:HD22	2.06	0.55
42:DQ:16:ARG:HG2	42:DQ:17:LEU:H	1.68	0.55
46:DU:31:SER:HB3	46:DU:34:LYS:HB2	1.88	0.55
50:DY:90:LEU:HD12	50:DY:91:GLU:CG	2.36	0.55
51:DZ:5:LEU:HD12	51:DZ:47:VAL:CG2	2.36	0.55
1:AA:266:G:H5''	1:AA:268:C:N4	2.21	0.55
1:AA:525:C:OP1	12:AL:91:LYS:HB2	2.07	0.55
1:AA:661:G:C2	1:AA:662:G:C8	2.94	0.55
1:AA:691:G:N7	11:AK:26:ASN:HB3	2.22	0.55
2:AB:221:LEU:HD13	2:AB:221:LEU:O	2.07	0.55
7:AG:14:PRO:HG3	7:AG:21:VAL:HG13	1.88	0.55
12:AL:5:PRO:HA	12:AL:9:GLN:NE2	2.22	0.55
24:B2:49:LYS:CA	24:B2:53:LEU:HB3	2.36	0.55
27:B5:50:GLY:O	27:B5:51:TYR:CD1	2.56	0.55
28:B6:20:ASN:O	28:B6:21:TYR:CD1	2.60	0.55
31:BA:157:U:OP2	31:BA:157:U:H6	1.89	0.55
31:BA:329:G:OP2	50:BY:71:LYS:HE2	2.06	0.55
31:BA:398:G:H5''	31:BA:2090:G:O4'	2.05	0.55
31:BA:435:C:C5	31:BA:436:C:C5	2.94	0.55
31:BA:1478:G:O2'	31:BA:1558:A:H2	1.89	0.55
31:BA:1517:G:H5''	31:BA:1517:G:C8	2.39	0.55
31:BA:1642:G:C2'	31:BA:1643:G:H5'	2.36	0.55
31:BA:1773:A:C2'	31:BA:1774:C:H5'	2.36	0.55
31:BA:1792:G:O2'	31:BA:1793:C:H5'	2.06	0.55
31:BA:2000:G:OP2	43:BR:3:HIS:CE1	2.60	0.55
31:BA:2086:U:H2'	31:BA:2087:G:C8	2.41	0.55
31:BA:2258:C:H4'	31:BA:2259:G:OP2	2.06	0.55
31:BA:2282:G:H5''	31:BA:2283:C:O4'	2.07	0.55
31:BA:2580:U:H5'	34:BE:131:ALA:H	1.70	0.55
31:BA:2641:G:OP1	39:BN:75:TYR:HD2	1.90	0.55
34:BE:56:PRO:O	34:BE:58:ARG:N	2.40	0.55
34:BE:105:THR:HA	34:BE:166:THR:HA	1.87	0.55
36:BG:3:LEU:HA	36:BG:97:ASP:OD2	2.07	0.55
36:BG:11:TYR:CG	36:BG:100:TRP:HH2	2.25	0.55
36:BG:43:LEU:CD1	36:BG:153:ARG:HD2	2.37	0.55
37:BH:158:HIS:CD2	37:BH:170:ARG:HA	2.42	0.55
39:BN:42:TRP:HB3	46:BU:64:ARG:HH12	1.67	0.55
48:BW:12:ILE:HD13	48:BW:17:VAL:HG22	1.89	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:144:LEU:N	51:BZ:144:LEU:HD22	2.21	0.55
1:CA:66:G:O4'	1:CA:173:U:C4	2.60	0.55
1:CA:79:G:C4'	1:CA:80:G:OP1	2.54	0.55
1:CA:247:G:OP2	17:CQ:100:LYS:HG2	2.06	0.55
1:CA:355:C:H2'	1:CA:356:A:H5'	1.86	0.55
1:CA:414:A:H2'	1:CA:415:A:O4'	2.07	0.55
1:CA:425:G:C2'	1:CA:426:G:H5'	2.36	0.55
1:CA:503:C:O2'	1:CA:504:C:H5'	2.06	0.55
1:CA:671:G:C4	1:CA:672:U:C6	2.94	0.55
2:CB:87:ARG:NH2	2:CB:233:SER:HB3	2.21	0.55
5:CE:122:GLU:O	5:CE:123:LEU:HD23	2.06	0.55
6:CF:75:LEU:CD2	6:CF:79:LEU:HD11	2.37	0.55
9:CI:15:ALA:HA	9:CI:65:VAL:HA	1.88	0.55
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.06	0.55
11:CK:38:ASN:HD22	11:CK:38:ASN:H	1.53	0.55
14:CN:24:CYS:HB2	14:CN:29:ARG:HB3	1.87	0.55
17:CQ:57:VAL:HG12	17:CQ:76:LEU:HA	1.87	0.55
18:CR:22:VAL:HG12	18:CR:22:VAL:O	2.07	0.55
23:D1:32:LYS:HG2	31:DA:2396:G:O2'	2.07	0.55
28:D6:48:VAL:O	28:D6:49:HIS:CB	2.53	0.55
31:DA:203:C:H3'	31:DA:204:A:H5''	1.88	0.55
31:DA:478:A:H62	31:DA:502:A:N6	2.05	0.55
31:DA:953:A:O2'	31:DA:954:G:H5'	2.06	0.55
31:DA:1248:G:O2'	46:DU:3:ARG:HA	2.06	0.55
31:DA:1281:G:H5''	31:DA:1281:G:H8	1.72	0.55
31:DA:1478:G:C2'	31:DA:1479:G:H5'	2.36	0.55
31:DA:2220:G:H2'	31:DA:2221:G:C8	2.41	0.55
31:DA:2400:G:H2'	31:DA:2400:G:N3	2.22	0.55
31:DA:2547:U:H2'	31:DA:2548:G:C8	2.41	0.55
31:DA:2859:G:O2'	31:DA:2860:A:P	2.64	0.55
32:DB:2:C:C5	32:DB:3:C:C5	2.94	0.55
32:DB:17:C:N3	32:DB:18:G:C5	2.75	0.55
32:DB:46:A:C5	32:DB:47:C:C5	2.95	0.55
35:DF:68:LYS:HG2	35:DF:69:HIS:CE1	2.42	0.55
35:DF:124:LEU:O	35:DF:193:VAL:HA	2.07	0.55
36:DG:11:TYR:HD2	36:DG:12:TYR:CE1	2.25	0.55
42:DQ:41:TRP:HB3	42:DQ:94:VAL:CB	2.35	0.55
42:DQ:57:HIS:NE2	42:DQ:116:GLU:HG2	2.21	0.55
42:DQ:141:GLN:O	51:DZ:70:LEU:HD22	2.06	0.55
44:DS:73:LEU:O	44:DS:77:ALA:N	2.28	0.55
45:DT:20:PRO:HD2	45:DT:85:LYS:HB3	1.89	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:90:PRO:CG	47:DV:91:TYR:H	2.20	0.55
50:DY:83:THR:HG22	50:DY:84:ARG:N	2.21	0.55
51:DZ:11:GLU:CD	51:DZ:11:GLU:H	2.10	0.55
1:AA:333:G:O2'	1:AA:334:C:H5'	2.06	0.55
1:AA:402:G:C6	1:AA:403:C:C4	2.95	0.55
1:AA:429:U:H4'	1:AA:430:A:O5'	2.07	0.55
1:AA:432:A:C8	1:AA:433:C:C5	2.95	0.55
1:AA:774:G:N2	1:AA:775:G:H1'	2.22	0.55
1:AA:954:G:C2	1:AA:955:U:C2	2.94	0.55
1:AA:1159:U:C5	1:AA:1182:G:C4	2.95	0.55
2:AB:67:THR:HG21	2:AB:155:LEU:HD21	1.87	0.55
6:AF:81:ILE:O	6:AF:82:ARG:C	2.45	0.55
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	1.88	0.55
19:AS:80:TYR:O	19:AS:80:TYR:CG	2.59	0.55
26:B4:23:GLU:O	36:BG:113:ARG:HG3	2.07	0.55
28:B6:13:CYS:HA	28:B6:50:ARG:O	2.07	0.55
30:B8:52:LYS:N	30:B8:53:PRO:CD	2.53	0.55
31:BA:185:U:H4'	31:BA:218:A:H4'	1.88	0.55
31:BA:319:C:H2'	31:BA:320:A:O4'	2.07	0.55
31:BA:917:A:N1	32:BB:80:U:H4'	2.22	0.55
31:BA:993:G:H1'	47:BV:91:TYR:HD1	1.72	0.55
31:BA:1373:A:N6	31:BA:1374:G:C2	2.75	0.55
31:BA:2394:C:OP1	41:BP:63:PRO:CD	2.47	0.55
32:BB:66:A:C6	32:BB:109:C:C6	2.95	0.55
33:BD:14:ARG:HH11	33:BD:14:ARG:HG2	1.71	0.55
36:BG:47:LYS:HD3	36:BG:81:LYS:CD	2.31	0.55
37:BH:89:ILE:HD12	37:BH:89:ILE:H	1.70	0.55
41:BP:67:MET:HA	41:BP:67:MET:CE	2.37	0.55
46:BU:65:ILE:HG12	46:BU:96:ALA:CB	2.36	0.55
48:BW:51:LEU:HD23	48:BW:105:VAL:HG11	1.89	0.55
50:BY:13:VAL:HG11	50:BY:72:VAL:HB	1.88	0.55
1:CA:236:G:H2'	1:CA:237:C:C6	2.42	0.55
1:CA:360:A:O2'	1:CA:361:G:H5'	2.06	0.55
2:CB:140:HIS:O	2:CB:143:GLU:HB2	2.06	0.55
6:CF:99:ALA:HB3	18:CR:29:PHE:CE2	2.42	0.55
7:CG:69:VAL:HG11	7:CG:134:ALA:HB1	1.88	0.55
8:CH:10:LEU:HD13	8:CH:83:ILE:CD1	2.33	0.55
15:CO:61:GLY:O	15:CO:64:ARG:HB3	2.07	0.55
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.88	0.55
19:CS:63:THR:O	19:CS:66:MET:HG2	2.07	0.55
27:D5:8:LYS:O	31:DA:2017:U:H4'	2.07	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:245:G:H2'	31:DA:246:C:H6	1.71	0.55
31:DA:415:A:H2'	31:DA:416:C:C6	2.42	0.55
31:DA:473:G:H2'	31:DA:474:G:O5'	2.06	0.55
31:DA:518:G:H4'	48:DW:18:ARG:CZ	2.37	0.55
31:DA:602:G:O2'	31:DA:604:G:H4'	2.07	0.55
31:DA:647:G:H2'	31:DA:648:G:O4'	2.07	0.55
31:DA:870:A:H5'	42:DQ:7:MET:HB2	1.87	0.55
31:DA:1844:C:O2'	31:DA:1845:G:H5'	2.06	0.55
31:DA:1850:G:C5	31:DA:1851:U:C5	2.94	0.55
31:DA:1990:C:H2'	31:DA:1991:U:C6	2.42	0.55
31:DA:2309:A:N3	31:DA:2310:A:H2	2.05	0.55
31:DA:2531:A:C2	31:DA:2658:C:O2	2.58	0.55
31:DA:2580:U:H5'	34:DE:131:ALA:H	1.72	0.55
31:DA:2688:U:H1'	31:DA:2721:A:N6	2.21	0.55
31:DA:2859:G:H4'	31:DA:2860:A:OP1	2.07	0.55
32:DB:57:A:C2	32:DB:58:A:N7	2.74	0.55
33:DD:63:ARG:HG3	33:DD:63:ARG:HH11	1.71	0.55
33:DD:142:VAL:HG22	33:DD:192:THR:O	2.07	0.55
33:DD:172:TYR:HD1	33:DD:185:VAL:C	2.10	0.55
34:DE:116:VAL:O	34:DE:117:MET:HB3	2.05	0.55
38:DI:93:THR:OG1	38:DI:94:ALA:N	2.36	0.55
38:DI:136:VAL:O	38:DI:138:ILE:HG13	2.06	0.55
41:DP:105:LEU:O	41:DP:106:LEU:CB	2.54	0.55
45:DT:112:ARG:O	45:DT:112:ARG:HD3	2.06	0.55
47:DV:38:LEU:HG	47:DV:39:LEU:N	2.22	0.55
47:DV:66:ARG:NH1	47:DV:68:LYS:H	2.04	0.55
49:DX:70:LEU:O	49:DX:71:GLY:C	2.45	0.55
1:AA:321:A:N7	1:AA:328:C:O2'	2.30	0.55
1:AA:328:C:H4'	1:AA:329:A:H5'	1.88	0.55
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.88	0.55
1:AA:1272:G:C6	1:AA:1273:G:C5	2.95	0.55
1:AA:1486:G:H2'	1:AA:1487:G:C1'	2.37	0.55
4:AD:24:GLU:O	4:AD:27:TYR:N	2.31	0.55
6:AF:39:LYS:O	6:AF:40:VAL:HB	2.06	0.55
8:AH:109:ILE:HD11	8:AH:111:ILE:HG12	1.87	0.55
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.07	0.55
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.87	0.55
27:B5:2:ALA:HB3	31:BA:747:U:C6	2.42	0.55
31:BA:157:U:C5'	31:BA:171:G:H22	2.18	0.55
31:BA:773:U:C5'	33:BD:47:GLY:HA2	2.36	0.55
31:BA:1411:C:H2'	31:BA:1412:A:N7	2.22	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1509(B):A:H3'	31:BA:1510:G:C8	2.38	0.55
31:BA:1675:C:H2'	31:BA:1676:A:O4'	2.07	0.55
31:BA:1805:U:C2	31:BA:1806:C:C5	2.94	0.55
31:BA:2208:A:H1'	31:BA:2219:G:C5	2.42	0.55
31:BA:2347:C:H2'	31:BA:2348:U:H6	1.70	0.55
32:BB:24:G:C2	32:BB:56:G:C2	2.94	0.55
32:BB:27:C:O2	32:BB:27:C:C2'	2.55	0.55
39:BN:32:THR:O	39:BN:35:ARG:O	2.25	0.55
39:BN:56:ASN:HA	39:BN:125:GLY:N	2.22	0.55
42:BQ:141:GLN:NE2	51:BZ:70:LEU:HB2	2.22	0.55
1:CA:10:A:H2'	1:CA:11:G:C8	2.42	0.55
1:CA:390:C:O2'	1:CA:391:G:H5'	2.07	0.55
1:CA:818:G:C3'	1:CA:819:A:C5'	2.85	0.55
1:CA:1097:C:H1'	1:CA:1170:A:H1'	1.89	0.55
3:CC:47:LEU:HD23	3:CC:52:LEU:HD13	1.89	0.55
4:CD:10:ARG:HG2	4:CD:10:ARG:NH1	2.22	0.55
8:CH:77:GLU:HG3	8:CH:78:GLN:N	2.22	0.55
12:CL:5:PRO:HA	12:CL:9:GLN:NE2	2.22	0.55
20:CT:79:ARG:HA	20:CT:82:SER:OG	2.07	0.55
31:DA:489:G:N7	48:DW:49:LYS:NZ	2.54	0.55
31:DA:697:C:H2'	31:DA:698:C:C6	2.41	0.55
31:DA:892:G:C8	31:DA:893:C:C4	2.95	0.55
31:DA:911:A:C2'	42:DQ:9:TYR:OH	2.55	0.55
31:DA:1528(A):A:C3'	31:DA:1529:G:H5''	2.33	0.55
31:DA:1678:G:H21	31:DA:1989:G:H22	1.55	0.55
31:DA:1972:A:O2'	31:DA:1973:G:H5'	2.07	0.55
31:DA:2262:U:C2'	31:DA:2263:C:H5'	2.37	0.55
31:DA:2307:G:H3'	31:DA:2307:G:N3	2.21	0.55
31:DA:2556:C:H2'	31:DA:2557:G:O4'	2.06	0.55
31:DA:2843:G:C4	31:DA:2844:G:C8	2.94	0.55
32:DB:21:G:C8	32:DB:22:U:C1'	2.89	0.55
32:DB:79:C:H2'	32:DB:80:U:O4'	2.06	0.55
36:DG:96:ARG:HD2	36:DG:97:ASP:H	1.72	0.55
37:DH:103:LEU:HD22	37:DH:123:PHE:CE2	2.42	0.55
39:DN:54:VAL:HB	39:DN:122:VAL:HG22	1.88	0.55
41:DP:98:GLU:O	41:DP:101:VAL:HG13	2.07	0.55
42:DQ:23:GLY:HA2	42:DQ:101:ARG:N	2.21	0.55
47:DV:90:PRO:CD	47:DV:91:TYR:N	2.70	0.55
1:AA:27:G:O2'	1:AA:28:G:H5'	2.06	0.55
1:AA:41:G:C4	1:AA:402:G:C2	2.94	0.55
1:AA:136:C:H42	1:AA:227:G:H1	1.55	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:346:G:H3'	1:AA:346:G:N3	2.21	0.55
1:AA:414:A:H2'	1:AA:415:A:O4'	2.07	0.55
1:AA:687:A:H4'	1:AA:688:G:O5'	2.06	0.55
1:AA:791:G:C6	1:AA:792:A:N7	2.75	0.55
4:AD:58:LEU:HD23	4:AD:206:PHE:CE1	2.42	0.55
10:AJ:50:ILE:HD12	10:AJ:60:ARG:HH11	1.71	0.55
13:AM:86:CYS:HB2	19:AS:73:GLU:HB3	1.89	0.55
15:AO:3:ILE:HD13	15:AO:3:ILE:N	2.19	0.55
15:AO:52:SER:O	15:AO:55:GLY:N	2.40	0.55
15:AO:54:ARG:HG2	15:AO:58:MET:CE	2.37	0.55
19:AS:63:THR:O	19:AS:66:MET:HG2	2.07	0.55
23:B1:10:LYS:HB2	23:B1:14:VAL:N	2.20	0.55
31:BA:121:G:H4'	31:BA:149:A:H5'	1.89	0.55
31:BA:527:C:O4'	31:BA:527:C:O2	2.19	0.55
31:BA:557:U:H2'	31:BA:558:G:C8	2.41	0.55
31:BA:579:G:H2'	31:BA:580:C:H6	1.69	0.55
31:BA:830:G:H4'	31:BA:831:G:OP2	2.07	0.55
31:BA:904:C:H2'	31:BA:905:U:H5'	1.88	0.55
31:BA:921:G:H4'	31:BA:2269:A:C5	2.42	0.55
31:BA:1047:G:H2'	31:BA:1110:G:H22	1.70	0.55
31:BA:1177:A:H5'	31:BA:1178:C:O4'	2.07	0.55
31:BA:1791:A:H3'	31:BA:1792:G:C8	2.41	0.55
31:BA:2387:U:OP2	31:BA:2387:U:H6	1.90	0.55
31:BA:2393:A:H2'	31:BA:2394:C:O4'	2.07	0.55
31:BA:2786:U:N3	31:BA:2787:C:C5	2.75	0.55
31:BA:2807:G:H1	31:BA:2892:A:H62	1.55	0.55
32:BB:39:A:H5'	32:BB:40:U:OP2	2.06	0.55
33:BD:35:LYS:HB3	33:BD:63:ARG:HA	1.88	0.55
34:BE:59:VAL:CG2	34:BE:63:LEU:HA	2.32	0.55
37:BH:17:VAL:HG21	37:BH:50:VAL:HG21	1.88	0.55
38:BI:31:LEU:HD13	38:BI:37:VAL:HA	1.88	0.55
39:BN:28:THR:HG22	39:BN:29:LYS:N	2.21	0.55
41:BP:26:GLY:HA2	41:BP:30:THR:CG2	2.37	0.55
41:BP:62:LEU:H	41:BP:62:LEU:CD2	1.89	0.55
41:BP:91:PHE:CZ	41:BP:95:VAL:HB	2.42	0.55
43:BR:99:LYS:HB3	43:BR:99:LYS:NZ	2.21	0.55
46:BU:101:ARG:O	46:BU:102:GLU:C	2.44	0.55
1:CA:119:A:H4'	1:CA:120:A:O5'	2.05	0.55
1:CA:427:U:H3'	1:CA:428:G:H2'	1.88	0.55
1:CA:432:A:N7	1:CA:433:C:C4	2.75	0.55
1:CA:505:G:C6	1:CA:535:A:C2	2.94	0.55

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:659:U:N3	1:CA:660:G:C8	2.75	0.55
1:CA:983:A:H2	1:CA:984:C:C5	2.25	0.55
1:CA:1189:C:O3'	3:CC:5:ILE:HD12	2.06	0.55
2:CB:25:ASN:OD1	2:CB:25:ASN:C	2.45	0.55
2:CB:168:THR:HA	2:CB:171:ALA:HB2	1.89	0.55
4:CD:117:ALA:O	4:CD:120:LEU:HB2	2.07	0.55
12:CL:113:ARG:HG3	12:CL:114:LYS:N	2.22	0.55
17:CQ:6:LEU:HD13	17:CQ:23:VAL:HG11	1.89	0.55
19:CS:10:PHE:CZ	19:CS:70:LYS:HE2	2.37	0.55
22:D0:43:THR:HG22	31:DA:2331:G:O2'	2.06	0.55
23:D1:10:LYS:O	23:D1:13:ILE:HG23	2.07	0.55
24:D2:44:LEU:O	24:D2:47:ASN:ND2	2.40	0.55
27:D5:2:ALA:HB3	31:DA:747:U:C6	2.42	0.55
28:D6:20:ASN:O	28:D6:21:TYR:CG	2.60	0.55
29:D7:19:ARG:HD3	31:DA:125:G:OP2	2.06	0.55
31:DA:34:C:C6	31:DA:34:C:C3'	2.90	0.55
31:DA:671:C:OP1	41:DP:43:GLY:HA2	2.06	0.55
31:DA:952:G:C6	31:DA:966:G:C6	2.95	0.55
31:DA:1257:C:O2'	35:DF:84:VAL:HG23	2.06	0.55
31:DA:1337:G:O2'	31:DA:1338:G:H5'	2.07	0.55
31:DA:1433:U:O2'	31:DA:1434:A:H5'	2.06	0.55
31:DA:1663:C:HO2'	31:DA:1664:A:H8	1.53	0.55
31:DA:1933:G:H2'	31:DA:1934:C:O5'	2.06	0.55
31:DA:2447:G:N2	31:DA:2450:A:OP2	2.39	0.55
31:DA:2713:A:H3'	31:DA:2714:G:C5'	2.36	0.55
40:DO:87:ILE:HG22	40:DO:88:ASN:O	2.06	0.55
41:DP:67:MET:HA	41:DP:67:MET:CE	2.37	0.55
43:DR:24:GLN:HE22	43:DR:36:THR:HG21	1.71	0.55
46:DU:75:ASN:HB3	46:DU:77:SER:OG	2.07	0.55
47:DV:40:LEU:C	47:DV:40:LEU:HD13	2.27	0.55
49:DX:53:LYS:N	49:DX:80:ILE:HG22	2.21	0.55
50:DY:49:VAL:HG12	50:DY:53:PRO:CB	2.37	0.55
1:AA:35:G:H2'	1:AA:36:C:C6	2.42	0.55
1:AA:236:G:H2'	1:AA:237:C:C6	2.41	0.55
1:AA:727:G:N2	1:AA:731:G:C4	2.75	0.55
1:AA:808:C:P	15:AO:48:LYS:HE3	2.47	0.55
1:AA:818:G:C3'	1:AA:819:A:C5'	2.85	0.55
1:AA:1097:C:H1'	1:AA:1170:A:H1'	1.88	0.55
1:AA:1298:C:H4'	1:AA:1299:A:N3	2.21	0.55
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.06	0.55
3:AC:11:ARG:O	3:AC:13:GLY:N	2.39	0.55

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:22:GLU:HA	6:AF:25:ILE:HG12	1.89	0.55
12:AL:47:LYS:CB	12:AL:48:PRO:HD3	2.26	0.55
23:B1:23:LYS:HA	23:B1:23:LYS:NZ	2.22	0.55
27:B5:40:LYS:CD	27:B5:46:CYS:HB3	2.37	0.55
29:B7:8:ASN:ND2	29:B7:10:ARG:N	2.54	0.55
31:BA:330:A:H2	31:BA:1210:A:HO2'	1.52	0.55
31:BA:811:U:O2	31:BA:1250:G:H3'	2.07	0.55
31:BA:947:G:N2	31:BA:971:C:C2	2.75	0.55
31:BA:1373:A:C6	31:BA:1374:G:C4	2.95	0.55
31:BA:1468:C:H2'	31:BA:1469:A:C8	2.41	0.55
31:BA:1484:G:O2'	31:BA:1485:G:O4'	2.23	0.55
31:BA:2203:U:O2'	33:BD:151:LYS:HG2	2.07	0.55
42:BQ:42:ILE:HD13	42:BQ:97:VAL:HG21	1.88	0.55
42:BQ:93:TYR:N	42:BQ:93:TYR:CD1	2.74	0.55
46:BU:92:ARG:HD2	47:BV:11:GLN:HG3	1.89	0.55
47:BV:22:VAL:O	47:BV:23:GLU:CB	2.46	0.55
47:BV:25:LEU:HB2	47:BV:94:LEU:HD11	1.89	0.55
47:BV:66:ARG:HE	47:BV:94:LEU:CG	2.20	0.55
50:BY:86:ARG:HG2	50:BY:87:LYS:H	1.72	0.55
1:CA:236:G:H2'	1:CA:237:C:H6	1.72	0.55
1:CA:284:G:H2'	1:CA:285:G:C8	2.41	0.55
1:CA:625:G:C4	1:CA:626:U:C5	2.95	0.55
1:CA:936:C:H2'	1:CA:937:A:O4'	2.07	0.55
3:CC:134:ILE:HG22	3:CC:168:ALA:HB3	1.88	0.55
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.89	0.55
12:CL:87:GLY:H	12:CL:99:HIS:H	1.53	0.55
24:D2:25:VAL:HG13	24:D2:26:ARG:CD	2.35	0.55
26:D4:23:GLU:O	36:DG:113:ARG:HG3	2.07	0.55
30:D8:39:LYS:O	30:D8:39:LYS:HG2	2.07	0.55
31:DA:663:G:H2'	31:DA:664:C:C6	2.42	0.55
31:DA:688:U:H5'	31:DA:1780:A:C2	2.42	0.55
31:DA:804:A:H5''	31:DA:805:G:OP1	2.07	0.55
31:DA:1019:U:N3	31:DA:1142(A):A:N6	2.46	0.55
31:DA:1607:C:H4'	31:DA:1608:A:O5'	2.06	0.55
31:DA:1677:A:H2'	31:DA:1678:G:C8	2.42	0.55
31:DA:2474:C:H5'	31:DA:2475:C:OP2	2.07	0.55
31:DA:2552:U:C2	31:DA:2554:U:C5'	2.89	0.55
32:DB:117:G:C2	32:DB:118:G:C8	2.95	0.55
36:DG:30:GLU:HG2	36:DG:30:GLU:O	2.07	0.55
37:DH:86:GLU:CB	37:DH:132:ARG:HG2	2.36	0.55
37:DH:158:HIS:HE1	37:DH:168:PRO:HG2	1.72	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DI:44:LEU:O	38:DI:47:LEU:HB2	2.06	0.55
41:DP:101:VAL:C	41:DP:103:ALA:N	2.58	0.55
44:DS:46:VAL:CG1	44:DS:47:THR:N	2.70	0.55
44:DS:46:VAL:HG12	44:DS:47:THR:N	2.21	0.55
47:DV:13:ARG:CG	47:DV:13:ARG:NH1	2.64	0.55
47:DV:19:LYS:HE2	47:DV:20:LEU:H	1.71	0.55
47:DV:43:GLU:N	47:DV:48:GLY:HA2	2.22	0.55
48:DW:4:LYS:HG2	48:DW:106:ILE:HG22	1.89	0.55
50:DY:39:VAL:O	50:DY:40:GLU:CD	2.45	0.55
50:DY:77:PRO:O	50:DY:78:ALA:CB	2.54	0.55
51:DZ:8:TYR:O	51:DZ:37:VAL:HG12	2.07	0.55
1:AA:250:A:C4'	1:AA:251:G:O5'	2.53	0.55
1:AA:939:G:H5''	7:AG:102:ARG:CZ	2.37	0.55
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.22	0.55
2:AB:21:ARG:O	2:AB:21:ARG:HG3	2.07	0.55
3:AC:77:ILE:O	3:AC:83:ARG:HB3	2.07	0.55
4:AD:3:ARG:O	4:AD:5:ILE:N	2.40	0.55
6:AF:46:ARG:O	6:AF:47:ARG:C	2.45	0.55
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.88	0.55
8:AH:86:ILE:O	8:AH:88:LYS:HG2	2.06	0.55
9:AI:16:ARG:O	9:AI:63:ILE:HA	2.07	0.55
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB2	1.89	0.55
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.05	0.55
24:B2:25:VAL:HG13	24:B2:26:ARG:CD	2.32	0.55
31:BA:511:U:H5''	31:BA:512:G:OP2	2.06	0.55
31:BA:543:C:H42	31:BA:551:G:H1	1.54	0.55
31:BA:729:G:H4'	31:BA:763:G:H5'	1.89	0.55
31:BA:764:A:H5''	33:BD:210:GLY:HA3	1.89	0.55
31:BA:1204:A:C2	31:BA:1241:A:C2	2.94	0.55
31:BA:1550:C:H2'	31:BA:1551:C:H6	1.72	0.55
31:BA:1682:G:C2	31:BA:1683:C:C2	2.95	0.55
31:BA:1797:C:H4'	33:BD:257:LEU:O	2.06	0.55
31:BA:2075:U:H2'	31:BA:2238:G:N2	2.22	0.55
31:BA:2835:A:C6	31:BA:2879:C:C6	2.94	0.55
33:BD:142:VAL:HG23	33:BD:193:VAL:HA	1.89	0.55
36:BG:11:TYR:CD2	36:BG:12:TYR:CE1	2.95	0.55
36:BG:94:LEU:HG	36:BG:99:MET:HA	1.88	0.55
37:BH:43:VAL:CG1	37:BH:53:GLU:H	2.20	0.55
37:BH:143:GLN:HE22	37:BH:147:ASN:ND2	2.05	0.55
38:BI:25:TYR:CE1	38:BI:30:LEU:HD21	2.42	0.55
39:BN:24:GLY:H	39:BN:27:ALA:H	1.53	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:45:LEU:HD22	41:BP:46:LYS:H	1.72	0.55
42:BQ:82:ARG:O	42:BQ:83:MET:HB2	2.06	0.55
49:BX:57:LEU:HD13	49:BX:77:LYS:HB2	1.88	0.55
50:BY:28:LYS:HD3	50:BY:28:LYS:N	2.02	0.55
51:BZ:77:ASP:HB2	51:BZ:84:GLU:HG2	1.88	0.55
1:CA:36:C:C2'	1:CA:37:U:H5'	2.37	0.55
1:CA:110:C:H2'	1:CA:111:G:O4'	2.07	0.55
1:CA:346:G:H3'	1:CA:346:G:N3	2.22	0.55
1:CA:1026:G:H2'	1:CA:1026:G:N3	2.22	0.55
1:CA:1206:G:C6	1:CA:1207:G:C6	2.95	0.55
1:CA:1292:U:O2'	1:CA:1293:G:H5'	2.07	0.55
3:CC:83:ARG:O	3:CC:86:VAL:HG22	2.07	0.55
7:CG:14:PRO:HG3	7:CG:21:VAL:HG13	1.89	0.55
10:CJ:63:PHE:CZ	14:CN:45:ARG:HG3	2.42	0.55
14:CN:3:ARG:O	14:CN:7:ILE:HG23	2.07	0.55
16:CP:20:VAL:HG23	16:CP:35:LYS:HA	1.88	0.55
23:D1:87:PRO:O	23:D1:91:LYS:N	2.35	0.55
30:D8:40:GLU:O	30:D8:41:ILE:C	2.43	0.55
31:DA:272(B):G:H2'	31:DA:272(C):G:H8	1.72	0.55
31:DA:272(H):C:H2'	31:DA:272(H):C:O2	2.06	0.55
31:DA:409:C:N4	31:DA:418:G:H1	2.05	0.55
31:DA:626:U:H5''	31:DA:627:A:C5'	2.36	0.55
31:DA:1327:C:H2'	31:DA:1328:G:O4'	2.07	0.55
31:DA:1459:G:C8	31:DA:1461:G:C1'	2.88	0.55
31:DA:1810:A:H2'	31:DA:1811:G:O4'	2.06	0.55
31:DA:2056:G:C2	31:DA:2057:A:C8	2.95	0.55
31:DA:2286:A:C8	31:DA:2286:A:O2'	2.59	0.55
31:DA:2518:A:H8	31:DA:2518:A:H5'	1.71	0.55
31:DA:2770:G:H5''	31:DA:2771:C:OP2	2.07	0.55
31:DA:2836:U:C4	31:DA:2883:A:N6	2.75	0.55
33:DD:35:LYS:CE	33:DD:65:ILE:HG22	2.37	0.55
36:DG:101:ILE:HD11	36:DG:105:LYS:HE3	1.89	0.55
37:DH:85:LYS:HE2	37:DH:141:VAL:O	2.06	0.55
39:DN:3:THR:HG22	39:DN:5:VAL:H	1.72	0.55
42:DQ:6:ARG:HG3	42:DQ:6:ARG:O	2.07	0.55
44:DS:90:GLY:C	44:DS:92:TYR:N	2.60	0.55
45:DT:32:TYR:HD2	45:DT:81:PRO:O	1.87	0.55
49:DX:52:VAL:HG21	49:DX:82:GLN:HA	1.89	0.55
50:DY:86:ARG:HG2	50:DY:87:LYS:H	1.72	0.55
51:DZ:3:TYR:O	51:DZ:57:ILE:HA	2.07	0.55
1:AA:35:G:C6	1:AA:36:C:N4	2.75	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:141:A:H4'	1:AA:182:U:H1'	1.88	0.54
1:AA:273:A:C2'	1:AA:274:A:H5'	2.38	0.54
1:AA:358:U:N3	1:AA:359:U:N3	2.55	0.54
1:AA:676:A:O2'	1:AA:677:U:H5'	2.08	0.54
1:AA:759:A:H2'	1:AA:760:G:H5'	1.87	0.54
1:AA:768:A:H5'	1:AA:1524:C:O2'	2.07	0.54
1:AA:936:C:H2'	1:AA:937:A:O4'	2.07	0.54
1:AA:986:A:H2'	1:AA:987:G:O4'	2.07	0.54
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	2.07	0.54
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.07	0.54
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.21	0.54
9:AI:77:ILE:O	9:AI:81:ILE:HG12	2.08	0.54
20:AT:37:SER:O	20:AT:40:ALA:HB3	2.07	0.54
30:B8:53:PRO:HA	30:B8:56:GLU:HB2	1.89	0.54
31:BA:80:G:H2'	31:BA:81:G:H5'	1.90	0.54
31:BA:84:A:H3'	50:BY:9:LYS:HB2	1.88	0.54
31:BA:207:A:H2'	31:BA:208:C:O4'	2.06	0.54
31:BA:696:G:C2	31:BA:767:U:O2	2.60	0.54
31:BA:1502:C:O2	31:BA:1502:C:C2'	2.55	0.54
31:BA:1665:A:C2'	31:BA:1666:G:H5'	2.37	0.54
31:BA:1669:A:H5''	31:BA:2550:G:OP1	2.07	0.54
31:BA:2000:G:C2	31:BA:2001:A:C8	2.95	0.54
31:BA:2310:A:O2'	31:BA:2311:A:H5''	2.07	0.54
31:BA:2334:G:H8	31:BA:2334:G:OP1	1.90	0.54
32:BB:33:G:N1	32:BB:50:G:C6	2.75	0.54
33:BD:27:THR:O	33:BD:28:GLU:HB2	2.06	0.54
33:BD:228:PRO:HD3	33:BD:235:GLY:CA	2.36	0.54
42:BQ:52:VAL:O	42:BQ:56:ARG:HB2	2.08	0.54
49:BX:21:PHE:CD2	49:BX:90:GLU:HA	2.42	0.54
1:CA:394:G:H2'	1:CA:395:C:C6	2.39	0.54
1:CA:532:A:H61	3:CC:193:TYR:CB	2.20	0.54
1:CA:960:U:C4	1:CA:1225:A:H1'	2.42	0.54
1:CA:1004:A:C2'	1:CA:1038:C:O2	2.55	0.54
5:CE:78:HIS:HD2	8:CH:104:ARG:NE	2.03	0.54
10:CJ:26:ALA:HB1	10:CJ:29:ARG:NH2	2.17	0.54
15:CO:54:ARG:HG2	15:CO:58:MET:CE	2.36	0.54
22:D0:32:ARG:O	22:D0:35:ASN:ND2	2.40	0.54
22:D0:37:LEU:C	22:D0:38:VAL:CG2	2.76	0.54
28:D6:37:ARG:O	28:D6:48:VAL:O	2.25	0.54
31:DA:464:U:O2'	31:DA:465:G:H5'	2.06	0.54
31:DA:948:G:O2'	31:DA:949:C:H5'	2.06	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1449:A:HO2'	31:DA:1530:C:H5	1.55	0.54
31:DA:1509(B):A:H2'	31:DA:1510:G:H8	1.72	0.54
31:DA:1695:G:N2	31:DA:1696:G:C8	2.76	0.54
31:DA:1834:U:O2	31:DA:1834:U:H2'	2.07	0.54
31:DA:2034:U:O2'	31:DA:2035:G:H5'	2.07	0.54
31:DA:2236:C:H2'	31:DA:2237:G:C5'	2.33	0.54
31:DA:2743:C:H2'	31:DA:2744:G:O4'	2.06	0.54
32:DB:41:U:C2'	32:DB:42:C:OP1	2.55	0.54
34:DE:38:THR:HG22	34:DE:40:GLU:N	2.14	0.54
34:DE:93:VAL:N	34:DE:95:ILE:CD1	2.66	0.54
34:DE:105:THR:HA	34:DE:166:THR:HA	1.89	0.54
40:DO:20:MET:HE3	40:DO:44:LYS:HE3	1.88	0.54
50:DY:99:CYS:O	50:DY:100:ALA:O	2.25	0.54
1:AA:355:C:H2'	1:AA:356:A:H5'	1.89	0.54
1:AA:1315:U:H2'	1:AA:1316:G:O4'	2.07	0.54
2:AB:8:LYS:HZ2	2:AB:217:ARG:HH11	1.55	0.54
5:AE:79:GLU:HB3	5:AE:92:LYS:HG3	1.90	0.54
6:AF:99:ALA:HB3	18:AR:29:PHE:CE2	2.41	0.54
18:AR:22:VAL:O	18:AR:22:VAL:HG12	2.08	0.54
31:BA:26:G:C6	31:BA:27:G:N1	2.75	0.54
31:BA:64:A:O3'	49:BX:68:ARG:O	2.25	0.54
31:BA:451:C:N4	31:BA:454:A:H5'	2.21	0.54
31:BA:792:G:C4'	31:BA:793:A:H5'	2.38	0.54
31:BA:823:G:C2'	31:BA:824:A:H5'	2.37	0.54
31:BA:1044:G:H2'	31:BA:1044:G:N3	2.22	0.54
31:BA:1408:C:C2	31:BA:1595:G:N2	2.76	0.54
31:BA:1411:C:O5'	31:BA:1411:C:H6	1.90	0.54
31:BA:1434:A:C2'	31:BA:1435:G:H5'	2.37	0.54
31:BA:1678:G:H8	31:BA:1678:G:O5'	1.89	0.54
31:BA:2220:G:H2'	31:BA:2221:G:C8	2.43	0.54
31:BA:2772:C:H2'	31:BA:2773:C:C6	2.42	0.54
34:BE:65:GLY:O	34:BE:67:PHE:N	2.40	0.54
35:BF:1:MET:O	35:BF:2:LYS:C	2.46	0.54
35:BF:184:TYR:CD2	35:BF:188:ARG:HD2	2.42	0.54
36:BG:134:GLY:HA2	36:BG:156:ASP:HA	1.89	0.54
38:BI:133:HIS:HB2	38:BI:134:PRO:HD2	1.89	0.54
45:BT:129:ARG:CZ	45:BT:131:ALA:H	2.20	0.54
51:BZ:11:GLU:CD	51:BZ:11:GLU:H	2.10	0.54
1:CA:63:C:N4	1:CA:104:G:H1	2.03	0.54
1:CA:355:C:C4	1:CA:356:A:N7	2.75	0.54
1:CA:359:U:O2'	1:CA:360:A:H5'	2.07	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:552:U:C2'	1:CA:553:A:H5'	2.37	0.54
1:CA:731:G:OP1	1:CA:766:A:H1'	2.07	0.54
1:CA:859:A:H2'	1:CA:860:A:O4'	2.08	0.54
1:CA:939:G:H5''	7:CG:102:ARG:CZ	2.37	0.54
1:CA:975:A:H5''	1:CA:1363(A):A:N6	2.22	0.54
4:CD:58:LEU:HD23	4:CD:206:PHE:CE1	2.42	0.54
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.08	0.54
9:CI:46:ALA:HB2	9:CI:74:ILE:HG23	1.89	0.54
13:CM:61:GLU:HG3	13:CM:66:LEU:HD11	1.87	0.54
30:D8:19:SER:HB3	31:DA:651:G:H5'	1.89	0.54
30:D8:40:GLU:OE2	30:D8:44:LYS:HE3	2.07	0.54
31:DA:74:A:H4'	31:DA:75:G:O5'	2.08	0.54
31:DA:154:G:C8	31:DA:154:G:O5'	2.60	0.54
31:DA:448:U:O4	31:DA:583:G:H1'	2.08	0.54
31:DA:807:U:C2	31:DA:808:G:C8	2.95	0.54
31:DA:1006:C:C2	31:DA:1138:G:N2	2.74	0.54
31:DA:1010:A:N3	31:DA:1153:C:H1'	2.22	0.54
31:DA:1450(A):C:H2'	31:DA:1451:C:C6	2.42	0.54
31:DA:1632:A:C6	31:DA:1633:G:C6	2.95	0.54
31:DA:2061:G:N2	31:DA:2063:C:N1	2.56	0.54
31:DA:2199:A:H5''	31:DA:2200:C:OP2	2.06	0.54
31:DA:2464:C:N4	31:DA:2487:G:C6	2.75	0.54
31:DA:2523:G:H2'	31:DA:2524:G:H5'	1.89	0.54
31:DA:2897:U:H2'	31:DA:2897:U:O2	2.07	0.54
32:DB:17:C:O2	32:DB:17:C:C2'	2.53	0.54
34:DE:146:THR:HA	34:DE:147:PRO:C	2.28	0.54
36:DG:28:VAL:HB	36:DG:29:TRP:CD1	2.42	0.54
40:DO:13:ASN:HD22	40:DO:97:ARG:HB2	1.72	0.54
45:DT:17:THR:O	45:DT:18:ASP:HB3	2.08	0.54
45:DT:45:PHE:CE1	45:DT:74:ARG:HG3	2.42	0.54
47:DV:66:ARG:HD2	47:DV:67:GLY:CA	2.36	0.54
49:DX:3:THR:HA	49:DX:6:ASP:OD2	2.07	0.54
51:DZ:167:PRO:O	51:DZ:168:GLU:HB2	2.07	0.54
1:AA:343:U:N3	1:AA:347:G:C6	2.76	0.54
1:AA:358:U:C4	1:AA:359:U:O4	2.60	0.54
2:AB:100:GLY:O	2:AB:104:ASN:N	2.40	0.54
2:AB:189:ASP:HB3	2:AB:203:GLY:O	2.07	0.54
2:AB:201:ILE:CG2	2:AB:214:ILE:HG21	2.30	0.54
3:AC:24:ALA:HB1	3:AC:28:GLN:O	2.08	0.54
5:AE:93:PRO:HA	5:AE:118:ILE:HD12	1.89	0.54
8:AH:13:ILE:O	8:AH:17:THR:HG23	2.07	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:74:ASP:OD1	15:AO:76:GLU:HB3	2.08	0.54
22:B0:39:ARG:HH21	31:BA:2355:C:H1'	1.73	0.54
24:B2:26:ARG:NH1	24:B2:29:LYS:HE2	2.22	0.54
24:B2:45:SER:HB3	24:B2:48:HIS:HB3	1.89	0.54
28:B6:40:CYS:SG	28:B6:45:LYS:CD	2.94	0.54
29:B7:34:ARG:HH11	29:B7:34:ARG:HB3	1.71	0.54
31:BA:309:G:C4'	50:BY:18:GLY:HA3	2.37	0.54
31:BA:697:C:H2'	31:BA:698:C:C6	2.42	0.54
31:BA:790:C:O2'	31:BA:791:C:C5'	2.55	0.54
31:BA:962:G:C2'	31:BA:963:U:H5'	2.38	0.54
31:BA:1414:G:H1	31:BA:1588:C:N4	1.92	0.54
31:BA:1449:A:HO2'	31:BA:1530:C:H5	1.55	0.54
31:BA:1659:U:C2'	31:BA:1660:C:H5'	2.37	0.54
31:BA:1713:U:O2'	31:BA:1714:G:H5'	2.07	0.54
31:BA:1751:C:HO2'	31:BA:2861:G:HO2'	1.31	0.54
31:BA:2841:C:H2'	31:BA:2842:G:H8	1.73	0.54
31:BA:2897:U:O2	31:BA:2897:U:H2'	2.05	0.54
32:BB:6:C:O2'	44:BS:29:PHE:CE1	2.57	0.54
32:BB:18:G:C4	32:BB:19:G:C8	2.95	0.54
33:BD:233:HIS:CD2	33:BD:233:HIS:H	2.25	0.54
34:BE:93:VAL:C	34:BE:95:ILE:H	2.09	0.54
37:BH:125:VAL:HG22	37:BH:131:VAL:HG22	1.88	0.54
44:BS:31:SER:HB3	44:BS:34:HIS:O	2.06	0.54
45:BT:32:TYR:HB3	45:BT:81:PRO:CB	2.36	0.54
45:BT:32:TYR:CD2	45:BT:81:PRO:HB2	2.42	0.54
47:BV:13:ARG:HH11	47:BV:13:ARG:HG3	1.72	0.54
47:BV:85:LYS:C	47:BV:87:HIS:H	2.06	0.54
49:BX:24:GLY:HA3	49:BX:80:ILE:CG1	2.37	0.54
50:BY:83:THR:HG22	50:BY:84:ARG:N	2.21	0.54
51:BZ:5:LEU:HD12	51:BZ:47:VAL:CG2	2.38	0.54
1:CA:674:G:H2'	1:CA:675:A:H8	1.72	0.54
1:CA:832:C:N4	1:CA:855:G:C6	2.76	0.54
1:CA:921:U:H3	1:CA:923:A:H62	1.56	0.54
1:CA:1030(A):G:H1'	1:CA:1031:G:H22	1.72	0.54
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.43	0.54
1:CA:1205:U:HO2'	1:CA:1206:G:H8	1.56	0.54
4:CD:74:GLN:O	4:CD:78:LEU:HG	2.06	0.54
5:CE:105:VAL:HB	5:CE:106:PRO:CD	2.37	0.54
19:CS:79:THR:O	19:CS:80:TYR:HB3	2.07	0.54
22:D0:47:PRO:HB2	22:D0:51:VAL:O	2.07	0.54
27:D5:7:PRO:HG2	31:DA:2016:U:O2	2.07	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:40:LYS:HE2	27:D5:46:CYS:CB	2.37	0.54
28:D6:39:TYR:HE1	31:DA:2347:C:HO2'	1.54	0.54
30:D8:62:LEU:N	30:D8:63:PRO:CD	2.70	0.54
31:DA:153:C:H2'	31:DA:154:G:N7	2.23	0.54
31:DA:478:A:N6	31:DA:502:A:H62	2.05	0.54
31:DA:960:A:C8	31:DA:962:G:C8	2.95	0.54
31:DA:996:A:C4'	46:DU:92:ARG:HE	2.13	0.54
31:DA:1126:A:H4'	31:DA:1127:A:O5'	2.06	0.54
31:DA:1266:G:O5'	48:DW:15:ARG:NH2	2.41	0.54
31:DA:1484:G:O2'	31:DA:1485:G:O4'	2.20	0.54
31:DA:1651:G:N2	31:DA:2007:C:C2	2.75	0.54
31:DA:1811:G:C6	31:DA:1812:A:N7	2.75	0.54
31:DA:2300:G:O2'	31:DA:2301:C:H5'	2.07	0.54
31:DA:2376:A:N1	44:DS:94:TYR:HB2	2.23	0.54
31:DA:2396:G:C2'	31:DA:2397:G:H5'	2.37	0.54
31:DA:2636:U:H3	31:DA:2782:G:H1	1.54	0.54
31:DA:2674:G:H5''	40:DO:26:LYS:HE2	1.89	0.54
32:DB:28:C:C2	32:DB:29:A:C8	2.96	0.54
35:DF:34:TRP:HB2	41:DP:10:PRO:O	2.07	0.54
35:DF:126:VAL:HG13	35:DF:193:VAL:HG13	1.89	0.54
36:DG:5:VAL:HG11	36:DG:101:ILE:HB	1.89	0.54
38:DI:57:ARG:NH1	38:DI:57:ARG:HB3	2.22	0.54
41:DP:85:LEU:HD23	41:DP:117:GLU:O	2.08	0.54
45:DT:129:ARG:CZ	45:DT:131:ALA:H	2.20	0.54
47:DV:18:LEU:C	47:DV:18:LEU:HD13	2.26	0.54
47:DV:66:ARG:CG	47:DV:67:GLY:N	2.70	0.54
49:DX:52:VAL:HB	49:DX:80:ILE:HG21	1.88	0.54
1:AA:17:U:H2'	1:AA:18:C:C6	2.41	0.54
1:AA:60:A:P	1:AA:60:A:H8	2.30	0.54
1:AA:64:G:H4'	1:AA:65:U:C5'	2.35	0.54
1:AA:271:C:H2'	1:AA:272:C:H6	1.72	0.54
1:AA:541:G:C4	1:AA:542:G:C8	2.96	0.54
1:AA:615:C:H2'	1:AA:616:G:O4'	2.08	0.54
1:AA:650:G:C2'	1:AA:651:C:H5'	2.37	0.54
1:AA:682:G:H1	1:AA:708:C:N4	2.05	0.54
1:AA:930:C:O2'	1:AA:931:C:H5'	2.06	0.54
1:AA:1072:G:C5	1:AA:1104:G:N1	2.76	0.54
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.72	0.54
1:AA:1202:G:H2'	1:AA:1203:C:O4'	2.07	0.54
4:AD:9:CYS:HB2	4:AD:22:LYS:HD2	1.89	0.54
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.08	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:85:ARG:HA	11:AK:112:THR:OG1	2.08	0.54
17:AQ:65:ILE:HD12	17:AQ:65:ILE:N	2.23	0.54
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.07	0.54
23:B1:19:GLN:H	23:B1:44:PRO:HD3	1.73	0.54
29:B7:13:ALA:O	29:B7:17:GLY:HA3	2.07	0.54
31:BA:236:C:H2'	31:BA:237:C:H6	1.73	0.54
31:BA:966:G:C5	31:BA:967:C:C5	2.95	0.54
31:BA:1899:G:N2	31:BA:1902:C:C4	2.74	0.54
31:BA:2307:G:OP1	31:BA:2307:G:H4'	2.07	0.54
31:BA:2415:G:O3'	41:BP:66:GLY:CA	2.55	0.54
31:BA:2544:G:H8	31:BA:2544:G:O5'	1.90	0.54
31:BA:2580:U:H5'	34:BE:131:ALA:HB3	1.88	0.54
31:BA:2663:G:N7	31:BA:2664:G:C6	2.76	0.54
32:BB:60:C:C2	32:BB:61:G:C8	2.95	0.54
33:BD:28:GLU:HB2	33:BD:29:PRO:HD3	1.89	0.54
34:BE:77:ILE:HG22	34:BE:78:LEU:O	2.08	0.54
35:BF:20:LEU:HD13	35:BF:199:TRP:CH2	2.42	0.54
39:BN:87:LEU:HD21	39:BN:98:VAL:HG11	1.89	0.54
44:BS:13:ARG:O	44:BS:14:VAL:C	2.45	0.54
50:BY:99:CYS:O	50:BY:100:ALA:O	2.26	0.54
51:BZ:130:PRO:HA	51:BZ:133:ILE:HG13	1.90	0.54
1:CA:61:G:OP1	20:CT:10:LEU:HD11	2.06	0.54
1:CA:69:G:H2'	1:CA:70:G:H8	1.71	0.54
1:CA:328:C:H4'	1:CA:329:A:H5'	1.90	0.54
1:CA:579:G:H2'	1:CA:580:U:H6	1.72	0.54
1:CA:658:G:C5	1:CA:659:U:C5	2.96	0.54
1:CA:727:G:N2	1:CA:731:G:C4	2.76	0.54
1:CA:923:A:C2	1:CA:924:C:C2	2.96	0.54
1:CA:930:C:O2'	1:CA:931:C:H5'	2.08	0.54
1:CA:1076:C:C2	1:CA:1082:G:N2	2.75	0.54
1:CA:1314:C:H41	19:CS:4:SER:N	2.05	0.54
2:CB:33:TYR:O	2:CB:34:ALA:HB2	2.08	0.54
4:CD:3:ARG:O	4:CD:5:ILE:N	2.40	0.54
22:D0:74:ARG:NH2	32:DB:13:A:C8	2.72	0.54
24:D2:18:PRO:O	24:D2:19:VAL:C	2.45	0.54
24:D2:25:VAL:HA	24:D2:28:LYS:HB2	1.89	0.54
24:D2:47:ASN:ND2	24:D2:48:HIS:N	2.56	0.54
28:D6:20:ASN:ND2	28:D6:21:TYR:N	2.50	0.54
31:DA:521:G:H2'	31:DA:522:G:C8	2.42	0.54
31:DA:856:C:H2'	31:DA:857:C:H6	1.72	0.54
31:DA:951:C:H2'	31:DA:952:G:H5'	1.86	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1168:G:H2'	31:DA:1169:G:C8	2.43	0.54
31:DA:1899:G:N2	31:DA:1902:C:C4	2.74	0.54
31:DA:1997:G:O2'	31:DA:1998:G:H5'	2.07	0.54
31:DA:2310:A:O2'	31:DA:2311:A:H5''	2.07	0.54
31:DA:2752:C:C4	31:DA:2753:A:N7	2.75	0.54
32:DB:18:G:C4	32:DB:19:G:C8	2.96	0.54
33:DD:35:LYS:CG	33:DD:64:ILE:N	2.71	0.54
33:DD:80:ALA:HB2	33:DD:96:HIS:CG	2.43	0.54
33:DD:159:ALA:C	33:DD:161:THR:H	2.10	0.54
36:DG:16:ARG:HH11	36:DG:16:ARG:CG	2.20	0.54
37:DH:164:TYR:CB	37:DH:166:GLY:H	2.21	0.54
40:DO:87:ILE:HG22	40:DO:88:ASN:N	2.21	0.54
44:DS:95:HIS:CD2	44:DS:96:GLY:H	2.25	0.54
45:DT:58:ASN:HD22	45:DT:58:ASN:C	2.11	0.54
45:DT:129:ARG:HD2	45:DT:130:ALA:N	2.22	0.54
50:DY:64:GLU:O	50:DY:65:ALA:HB2	2.08	0.54
50:DY:73:ARG:HH21	50:DY:82:PRO:HD3	1.71	0.54
51:DZ:108:PRO:CA	51:DZ:142:SER:HA	2.34	0.54
51:DZ:117:LEU:CB	51:DZ:174:VAL:HG22	2.38	0.54
1:AA:117:G:C2'	1:AA:118:U:H5'	2.38	0.54
1:AA:504:C:H1'	1:AA:510:A:C4	2.43	0.54
1:AA:774:G:H2'	1:AA:775:G:H5'	1.90	0.54
1:AA:833:U:H3	1:AA:853:G:H1	1.56	0.54
1:AA:877:C:C5'	8:AH:88:LYS:HE3	2.33	0.54
1:AA:1026:G:N3	1:AA:1026:G:H2'	2.22	0.54
1:AA:1206:G:C6	1:AA:1207:G:C6	2.96	0.54
1:AA:1255:G:HO2'	1:AA:1258:G:HO2'	1.53	0.54
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.38	0.54
1:AA:1483:A:O2'	31:BA:1947:C:H2'	2.07	0.54
3:AC:125:GLU:HA	3:AC:191:THR:HG22	1.88	0.54
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	2.07	0.54
6:AF:100:ASN:N	18:AR:23:LYS:HZ2	2.05	0.54
8:AH:77:GLU:HG3	8:AH:78:GLN:N	2.22	0.54
11:AK:57:THR:O	11:AK:60:ALA:HB3	2.08	0.54
15:AO:75:PRO:O	15:AO:79:ARG:HG3	2.08	0.54
16:AP:22:THR:HG22	16:AP:32:TYR:CA	2.35	0.54
27:B5:46:CYS:SG	27:B5:47:PRO:HG2	2.48	0.54
30:B8:40:GLU:OE2	30:B8:44:LYS:HE3	2.07	0.54
31:BA:51:G:H4'	31:BA:52:A:H5'	1.90	0.54
31:BA:244:A:H4'	41:BP:74:GLU:HB2	1.88	0.54
31:BA:309:G:H4'	50:BY:18:GLY:HA3	1.88	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:470:A:C2'	31:BA:471:A:H5'	2.37	0.54
31:BA:1005:C:C2	31:BA:1143:A:C5	2.96	0.54
31:BA:1257:C:H1'	35:BF:82:ILE:O	2.08	0.54
31:BA:1290:C:H2'	31:BA:1291:C:C6	2.43	0.54
31:BA:1337:G:H2'	31:BA:1338:G:H8	1.71	0.54
31:BA:1802:A:N1	31:BA:1822:G:H1'	2.22	0.54
31:BA:2317:C:C2'	31:BA:2318:G:C5'	2.70	0.54
33:BD:45:ASN:OD1	33:BD:46:GLN:N	2.41	0.54
36:BG:25:TYR:HA	36:BG:30:GLU:OE2	2.08	0.54
37:BH:93:GLY:O	37:BH:95:ARG:HG2	2.08	0.54
39:BN:6:PRO:HG2	39:BN:43:THR:OG1	2.06	0.54
40:BO:93:PRO:HD3	40:BO:114:ILE:CD1	2.38	0.54
41:BP:107:LYS:C	41:BP:109:GLY:N	2.61	0.54
44:BS:26:LEU:HG	44:BS:39:ILE:HD11	1.88	0.54
44:BS:38:GLN:HG3	44:BS:47:THR:HG21	1.90	0.54
44:BS:94:TYR:CD1	44:BS:95:HIS:N	2.76	0.54
47:BV:2:PHE:O	47:BV:3:ALA:CB	2.55	0.54
47:BV:79:VAL:CG2	47:BV:82:ARG:HD2	2.37	0.54
49:BX:82:GLN:OE1	49:BX:83:VAL:HG22	2.07	0.54
50:BY:88:LYS:O	50:BY:89:PHE:CB	2.56	0.54
1:CA:17:U:O2'	1:CA:1079:G:N3	2.41	0.54
1:CA:448:A:OP2	1:CA:485:G:N2	2.29	0.54
1:CA:490:G:OP2	4:CD:132:ARG:NH2	2.39	0.54
1:CA:575:G:OP1	1:CA:576:G:OP1	2.25	0.54
1:CA:586:C:O2'	1:CA:878:G:H4'	2.08	0.54
1:CA:666:G:C2	1:CA:741:G:C4	2.96	0.54
1:CA:738:C:H2'	1:CA:739:C:H6	1.72	0.54
1:CA:768:A:H5'	1:CA:1524:C:O2'	2.07	0.54
1:CA:955:U:H2'	1:CA:956:U:C6	2.43	0.54
1:CA:1227:A:OP2	13:CM:111:LYS:HE2	2.07	0.54
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.89	0.54
4:CD:135:LEU:O	4:CD:137:SER:N	2.40	0.54
6:CF:50:TYR:CE2	6:CF:52:ILE:HD11	2.43	0.54
6:CF:52:ILE:CD1	6:CF:87:ARG:HH12	2.21	0.54
11:CK:21:ILE:HB	11:CK:84:VAL:HG12	1.89	0.54
12:CL:60:LEU:HD21	12:CL:66:VAL:CG2	2.30	0.54
16:CP:39:TYR:C	16:CP:39:TYR:CD1	2.80	0.54
28:D6:48:VAL:HG22	28:D6:49:HIS:H	1.71	0.54
29:D7:13:ALA:O	29:D7:17:GLY:HA3	2.07	0.54
31:DA:103:A:C2'	31:DA:104:U:H5'	2.38	0.54
31:DA:157:U:C5'	31:DA:171:G:H22	2.19	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:696:G:C2	31:DA:767:U:O2	2.60	0.54
31:DA:980:A:N6	31:DA:981:A:N1	2.56	0.54
31:DA:1337:G:OP2	49:DX:63:LYS:HE2	2.07	0.54
31:DA:1499:C:H2'	31:DA:1500:G:H5'	1.89	0.54
31:DA:1812:A:O2'	33:DD:45:ASN:HB2	2.08	0.54
31:DA:1899:G:O2'	31:DA:1900:A:H5''	2.07	0.54
31:DA:2019:A:H2'	31:DA:2020:A:O5'	2.07	0.54
31:DA:2197:U:H1'	31:DA:2198:A:C8	2.42	0.54
31:DA:2415:G:O2'	31:DA:2416:C:H5'	2.07	0.54
33:DD:70:TRP:CZ3	33:DD:150:LYS:HE3	2.43	0.54
34:DE:24:THR:HG23	34:DE:184:VAL:HG22	1.89	0.54
37:DH:153:LYS:HG2	37:DH:154:PRO:N	2.23	0.54
38:DI:144:VAL:O	38:DI:145:VAL:HB	2.08	0.54
40:DO:61:VAL:O	40:DO:63:VAL:HG13	2.06	0.54
40:DO:111:PHE:O	40:DO:113:LYS:N	2.40	0.54
41:DP:16:ARG:HG2	41:DP:18:ARG:N	2.18	0.54
43:DR:11:ASN:CG	43:DR:12:ARG:N	2.60	0.54
47:DV:66:ARG:CD	47:DV:67:GLY:H	2.21	0.54
51:DZ:77:ASP:HB2	51:DZ:84:GLU:HG2	1.89	0.54
1:AA:611:A:N6	1:AA:629:G:H1	2.05	0.54
1:AA:837:G:C2	1:AA:838:G:N7	2.76	0.54
2:AB:80:ILE:HD13	2:AB:208:ILE:HG23	1.89	0.54
30:B8:5:LYS:NZ	31:BA:253:C:OP2	2.34	0.54
30:B8:30:ARG:HB3	31:BA:2393:A:OP2	2.07	0.54
30:B8:51:ALA:N	30:B8:53:PRO:HD2	2.23	0.54
31:BA:57:C:H2'	31:BA:58:G:O5'	2.07	0.54
31:BA:128:C:C6	31:BA:128:C:C3'	2.91	0.54
31:BA:531:C:H4'	31:BA:532:A:H5''	1.89	0.54
31:BA:585:G:H2'	31:BA:1251:C:H42	1.71	0.54
31:BA:701:G:N2	31:BA:732:C:C2	2.75	0.54
31:BA:918:A:H5''	32:BB:98:G:O2'	2.08	0.54
31:BA:979:G:H3'	31:BA:980:A:H5''	1.88	0.54
31:BA:1600:C:OP1	49:BX:35:THR:HG21	2.08	0.54
31:BA:1933:G:H2'	31:BA:1934:C:O5'	2.07	0.54
31:BA:2220:G:H2'	31:BA:2221:G:H8	1.73	0.54
31:BA:2657:A:H3'	31:BA:2658:C:O4'	2.07	0.54
32:BB:41:U:H2'	32:BB:42:C:OP1	2.08	0.54
32:BB:50:G:P	44:BS:63:THR:HG23	2.47	0.54
32:BB:75:G:H8	32:BB:75:G:C5'	2.17	0.54
33:BD:69:ARG:HH12	33:BD:117:VAL:CG2	2.20	0.54
37:BH:116:GLU:HG2	37:BH:117:PRO:CD	2.38	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:126:PRO:HG3	37:BH:130:ARG:HB3	1.90	0.54
37:BH:146:ALA:O	37:BH:150:ALA:N	2.41	0.54
39:BN:78:TYR:CD1	39:BN:79:PRO:CB	2.91	0.54
39:BN:121:LYS:HE2	39:BN:123:TYR:CZ	2.43	0.54
42:BQ:141:GLN:O	51:BZ:70:LEU:HD22	2.07	0.54
44:BS:95:HIS:CD2	44:BS:96:GLY:H	2.24	0.54
45:BT:106:SER:HB2	45:BT:110:ILE:CD1	2.38	0.54
47:BV:2:PHE:HD2	47:BV:42:GLY:HA2	1.73	0.54
47:BV:5:VAL:CG2	47:BV:36:PRO:HB2	2.36	0.54
1:CA:299:G:C6	1:CA:300:A:N1	2.75	0.54
1:CA:386:C:O2'	1:CA:387:U:H5'	2.08	0.54
1:CA:450:G:OP1	16:CP:43:LYS:NZ	2.38	0.54
1:CA:473:G:O2'	1:CA:474:G:H5'	2.07	0.54
1:CA:659:U:C2	1:CA:660:G:C8	2.95	0.54
1:CA:1063:C:OP2	1:CA:1064:G:O2'	2.25	0.54
1:CA:1118:C:O2	1:CA:1179:A:C6	2.60	0.54
1:CA:1310:G:OP1	13:CM:77:ASN:HB3	2.07	0.54
1:CA:1468:A:H2'	1:CA:1469:G:O4'	2.08	0.54
1:CA:1469:G:H2'	1:CA:1470:G:H8	1.73	0.54
4:CD:108:LEU:HD12	4:CD:108:LEU:N	2.23	0.54
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.23	0.54
16:CP:14:ASN:OD1	16:CP:16:HIS:HE1	1.91	0.54
23:D1:34:THR:CG2	31:DA:388:G:OP1	2.54	0.54
28:D6:47:THR:HG22	28:D6:48:VAL:HG12	1.89	0.54
31:DA:363(E):U:H6	31:DA:363(E):U:OP2	1.90	0.54
31:DA:390:A:H4'	31:DA:391:G:H5'	1.90	0.54
31:DA:1177:A:H5'	31:DA:1178:C:O4'	2.07	0.54
31:DA:1485:G:H21	31:DA:1505:C:N4	2.06	0.54
31:DA:1832:C:N4	31:DA:1833:U:C4	2.75	0.54
31:DA:2515:C:O2	31:DA:2570:G:C2	2.61	0.54
31:DA:2753:A:C2	31:DA:2754:U:C2	2.95	0.54
32:DB:44:G:C2'	32:DB:45:A:OP2	2.56	0.54
33:DD:95:LEU:HD21	33:DD:105:ILE:HG21	1.88	0.54
34:DE:188:VAL:HG23	34:DE:189:PRO:HD2	1.90	0.54
35:DF:20:LEU:HD23	35:DF:23:ASP:OD2	2.08	0.54
35:DF:168:ARG:HG3	35:DF:175:THR:CG2	2.38	0.54
41:DP:10:PRO:CD	41:DP:11:GLY:H	2.20	0.54
41:DP:39:LYS:C	41:DP:41:ARG:N	2.61	0.54
43:DR:10:LEU:HD13	43:DR:17:ARG:CZ	2.38	0.54
43:DR:87:TYR:O	43:DR:88:ARG:C	2.45	0.54
44:DS:67:ARG:HD3	44:DS:101:LEU:HD23	1.88	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:3:ARG:HB2	45:DT:6:LEU:CB	2.37	0.54
47:DV:43:GLU:H	47:DV:48:GLY:HA2	1.72	0.54
48:DW:15:ARG:HA	48:DW:18:ARG:HD2	1.89	0.54
49:DX:21:PHE:HD2	49:DX:90:GLU:HA	1.73	0.54
1:AA:32:A:H3'	1:AA:33:A:H8	1.73	0.54
1:AA:84:U:C5	1:AA:88:A:C8	2.95	0.54
1:AA:625:G:C4	1:AA:626:U:C5	2.95	0.54
1:AA:939:G:H5''	7:AG:102:ARG:NH2	2.22	0.54
1:AA:965:A:H5'	1:AA:969:A:O4'	2.08	0.54
1:AA:1401:G:C2	1:AA:1402:C:H1'	2.42	0.54
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.43	0.54
1:AA:1504:G:H4'	1:AA:1505:G:OP2	2.07	0.54
2:AB:170:GLU:O	2:AB:174:VAL:HG23	2.08	0.54
5:AE:34:VAL:O	5:AE:41:VAL:HA	2.07	0.54
6:AF:33:TYR:HB3	6:AF:71:ARG:HE	1.73	0.54
9:AI:15:ALA:HA	9:AI:65:VAL:HA	1.90	0.54
9:AI:114:TYR:N	9:AI:114:TYR:HD2	2.06	0.54
26:B4:19:GLY:C	26:B4:21:VAL:H	2.11	0.54
29:B7:12:ARG:HG3	31:BA:686:G:O6	2.08	0.54
31:BA:153:C:H2'	31:BA:154:G:N7	2.23	0.54
31:BA:154:G:C8	31:BA:154:G:O5'	2.61	0.54
31:BA:251:A:C5'	41:BP:51:PHE:CZ	2.90	0.54
31:BA:786:C:C2'	31:BA:787:U:H5'	2.38	0.54
31:BA:1162:G:O2'	47:BV:92:THR:CG2	2.55	0.54
31:BA:1468:C:H2'	31:BA:1469:A:H8	1.73	0.54
31:BA:2227:A:H5'	33:BD:263:ARG:HB3	1.88	0.54
31:BA:2320:A:H2'	31:BA:2320:A:N3	2.22	0.54
33:BD:31:LYS:HA	33:BD:31:LYS:HZ1	1.73	0.54
35:BF:117:ARG:CZ	41:BP:5:ASP:N	2.71	0.54
39:BN:131:GLN:CD	39:BN:134:ARG:HA	2.28	0.54
40:BO:46:ALA:O	40:BO:47:ILE:HD13	2.08	0.54
46:BU:88:ILE:C	46:BU:90:VAL:HG23	2.28	0.54
49:BX:72:LYS:CG	49:BX:74:PRO:HD3	2.35	0.54
51:BZ:108:PRO:CA	51:BZ:142:SER:HA	2.35	0.54
1:CA:80:G:N1	1:CA:89:C:N4	2.56	0.54
1:CA:153:C:N4	1:CA:168:G:H1	2.04	0.54
1:CA:819:A:N7	1:CA:1529:G:C2	2.76	0.54
1:CA:922:G:C1'	5:CE:19:MET:N	2.71	0.54
1:CA:1130:A:H1'	1:CA:1146:A:H2	1.72	0.54
1:CA:1190:G:P	3:CC:5:ILE:HG23	2.47	0.54
1:CA:1217:C:H2'	1:CA:1218:C:O4'	2.07	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:7:GLU:HB2	5:CE:35:GLY:O	2.07	0.54
9:CI:86:VAL:HB	9:CI:96:LEU:HD22	1.88	0.54
10:CJ:32:ALA:H	10:CJ:78:ASN:HD21	1.56	0.54
11:CK:82:VAL:HG21	11:CK:98:LEU:HD12	1.89	0.54
24:D2:14:ARG:CZ	24:D2:15:LYS:HB3	2.37	0.54
25:D3:24:LYS:HB3	31:DA:849:A:H2	1.73	0.54
31:DA:136:G:C2'	31:DA:137:C:O5'	2.56	0.54
31:DA:205:G:O2'	31:DA:206:U:P	2.65	0.54
31:DA:251:A:H5''	41:DP:51:PHE:CZ	2.42	0.54
31:DA:300:A:OP1	50:DY:84:ARG:NH2	2.40	0.54
31:DA:471:A:C2'	31:DA:472:A:O5'	2.56	0.54
31:DA:792:G:C5'	31:DA:793:A:H5'	2.38	0.54
31:DA:1210:A:O5'	31:DA:1212:G:H5'	2.07	0.54
31:DA:1446:C:H3'	31:DA:1446:C:C6	2.43	0.54
31:DA:1494:A:C4'	31:DA:1495:A:OP1	2.48	0.54
35:DF:53:THR:C	35:DF:55:GLY:H	2.11	0.54
36:DG:137:GLU:O	36:DG:140:ILE:HG12	2.08	0.54
43:DR:34:ILE:HG22	43:DR:114:VAL:HG23	1.88	0.54
43:DR:53:HIS:HD2	43:DR:94:TYR:OH	1.89	0.54
44:DS:26:LEU:HG	44:DS:39:ILE:HD11	1.89	0.54
44:DS:52:SER:OG	44:DS:56:LEU:N	2.40	0.54
47:DV:5:VAL:HG21	47:DV:36:PRO:HB2	1.89	0.54
50:DY:11:ASP:OD1	50:DY:28:LYS:HE2	2.07	0.54
50:DY:39:VAL:CG1	50:DY:40:GLU:H	2.16	0.54
1:AA:61:G:OP1	20:AT:10:LEU:HD11	2.07	0.54
1:AA:258:G:H2'	1:AA:259:G:H8	1.72	0.54
1:AA:270:A:C6	1:AA:271:C:C4	2.95	0.54
1:AA:407:G:C2	1:AA:436:C:N3	2.76	0.54
1:AA:600:C:H2'	1:AA:601:C:H6	1.70	0.54
1:AA:710:G:H2'	1:AA:711:G:H8	1.73	0.54
1:AA:872:A:C2	1:AA:874:G:C6	2.96	0.54
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.07	0.54
4:AD:64:LEU:O	4:AD:67:ILE:HB	2.08	0.54
6:AF:75:LEU:HD23	6:AF:79:LEU:HD11	1.90	0.54
8:AH:9:MET:HG2	8:AH:10:LEU:HD23	1.90	0.54
9:AI:46:ALA:HA	9:AI:78:LYS:HZ2	1.73	0.54
10:AJ:63:PHE:CZ	14:AN:45:ARG:HG3	2.42	0.54
11:AK:29:ILE:HD12	11:AK:44:SER:HB3	1.89	0.54
11:AK:38:ASN:HD22	11:AK:38:ASN:H	1.55	0.54
17:AQ:52:LYS:H	17:AQ:52:LYS:HD2	1.73	0.54
29:B7:10:ARG:O	29:B7:14:LYS:HB2	2.08	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:301:G:H1'	31:BA:302:C:C6	2.43	0.54
31:BA:834:C:C2'	31:BA:835:A:H5'	2.37	0.54
31:BA:1106:A:O2'	31:BA:1107:G:P	2.66	0.54
31:BA:1505:C:H3'	31:BA:1505:C:C6	2.42	0.54
31:BA:1509(B):A:H2'	31:BA:1510:G:H8	1.73	0.54
31:BA:1568:G:N2	33:BD:58:HIS:HE1	2.00	0.54
31:BA:1581:G:C2'	31:BA:1582:C:H5'	2.38	0.54
31:BA:1638:C:H5''	31:BA:2710:C:O2'	2.07	0.54
31:BA:1794:U:O2'	31:BA:1795:C:H5'	2.08	0.54
31:BA:1850:G:C5	31:BA:1851:U:C5	2.95	0.54
31:BA:2041:U:H2'	31:BA:2042:A:H8	1.73	0.54
31:BA:2043:C:H1'	31:BA:2779:U:O4	2.08	0.54
31:BA:2299:G:N1	31:BA:2318:G:C8	2.76	0.54
31:BA:2472:G:C6	31:BA:2477:C:OP1	2.60	0.54
31:BA:2476:A:N3	31:BA:2477:C:C6	2.76	0.54
31:BA:2758:A:C4	37:BH:67:LEU:HD21	2.42	0.54
33:BD:206:LEU:HD23	33:BD:206:LEU:N	2.22	0.54
34:BE:51:PHE:CB	34:BE:76:ARG:HB3	2.29	0.54
38:BI:92:VAL:HG23	38:BI:96:ASP:OD2	2.08	0.54
38:BI:102:SER:N	38:BI:109:ILE:HD11	2.23	0.54
40:BO:63:VAL:HG11	40:BO:85:VAL:CG2	2.37	0.54
42:BQ:9:TYR:O	42:BQ:9:TYR:HD2	1.87	0.54
42:BQ:54:MET:SD	42:BQ:118:LEU:HD23	2.48	0.54
44:BS:63:THR:CA	44:BS:66:ALA:HB3	2.36	0.54
44:BS:101:LEU:HD13	44:BS:102:ALA:H	1.73	0.54
50:BY:13:VAL:HG21	50:BY:28:LYS:HZ2	1.73	0.54
1:CA:402:G:C6	1:CA:403:C:C4	2.95	0.54
1:CA:668:G:H21	15:CO:46:HIS:CE1	2.26	0.54
1:CA:719:C:C5	1:CA:720:C:C4	2.96	0.54
1:CA:983:A:H2	1:CA:984:C:C6	2.26	0.54
1:CA:1061:G:C2'	1:CA:1062:U:H5'	2.38	0.54
1:CA:1061:G:H2'	1:CA:1062:U:H5'	1.88	0.54
1:CA:1113:C:O5'	1:CA:1113:C:H6	1.91	0.54
1:CA:1274:G:N2	1:CA:1275:A:H62	2.05	0.54
3:CC:91:LEU:HD11	3:CC:101:LEU:HD12	1.90	0.54
3:CC:181:ASN:O	3:CC:204:LEU:HB2	2.07	0.54
6:CF:96:PRO:HB3	18:CR:30:ASP:CG	2.28	0.54
12:CL:41:ARG:CG	12:CL:42:THR:H	2.17	0.54
18:CR:25:THR:HG21	18:CR:42:ARG:HD3	1.90	0.54
31:DA:533:G:C6	31:DA:534:U:N3	2.75	0.54
31:DA:700:G:H1	31:DA:732:C:H42	1.54	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1473:G:C6	31:DA:1474:C:C4	2.95	0.54
31:DA:1517:G:H5''	31:DA:1517:G:C8	2.38	0.54
31:DA:2889:C:H3'	31:DA:2891:G:C8	2.43	0.54
34:DE:51:PHE:CB	34:DE:76:ARG:HB3	2.27	0.54
36:DG:22:ARG:HB3	36:DG:23:PHE:CD1	2.42	0.54
36:DG:39:ILE:HA	36:DG:157:ILE:HB	1.90	0.54
36:DG:110:ALA:O	36:DG:111:LEU:HG	2.08	0.54
36:DG:169:ALA:O	36:DG:173:LEU:HG	2.08	0.54
38:DI:13:GLY:O	38:DI:14:ASP:C	2.44	0.54
38:DI:84:GLY:O	38:DI:85:GLU:HG2	2.07	0.54
41:DP:16:ARG:CD	41:DP:18:ARG:HB2	2.29	0.54
41:DP:91:PHE:CZ	41:DP:95:VAL:HB	2.43	0.54
44:DS:99:LYS:O	44:DS:101:LEU:N	2.30	0.54
48:DW:20:VAL:HG23	48:DW:47:VAL:HG21	1.89	0.54
50:DY:8:LYS:HB2	50:DY:28:LYS:HZ1	1.72	0.54
1:AA:442:C:H42	1:AA:492:G:H1	1.56	0.54
1:AA:503:C:H2'	1:AA:504:C:C6	2.42	0.54
1:AA:527:G:O2'	1:AA:528:C:H5'	2.07	0.54
1:AA:564:C:C5	17:AQ:31:LEU:HD11	2.43	0.54
1:AA:783:C:O3'	31:BA:1836:C:H5''	2.08	0.54
1:AA:881:G:P	12:AL:12:ARG:HH22	2.30	0.54
1:AA:983:A:H2	1:AA:984:C:C5	2.26	0.54
1:AA:1442:G:N7	1:AA:1442(B):A:C2	2.65	0.54
4:AD:99:SER:O	4:AD:140:VAL:HG23	2.08	0.54
5:AE:126:ARG:HG3	5:AE:126:ARG:NH1	2.18	0.54
23:B1:11:ARG:HG2	23:B1:61:ARG:O	2.08	0.54
24:B2:12:GLU:CA	24:B2:14:ARG:HH21	2.19	0.54
25:B3:10:LYS:HB3	25:B3:53:LEU:HA	1.90	0.54
27:B5:42:PRO:HB2	27:B5:43:HIS:HD2	1.72	0.54
28:B6:25:LYS:CE	28:B6:27:LYS:NZ	2.71	0.54
31:BA:142:A:C8	31:BA:1595:G:N2	2.65	0.54
31:BA:1020:A:H4'	31:BA:1021:A:O5'	2.08	0.54
31:BA:1242:A:N1	41:BP:8:PRO:HG3	2.22	0.54
31:BA:1281:G:H5''	31:BA:1281:G:H8	1.73	0.54
31:BA:1688:U:H5'	31:BA:1689:A:OP1	2.08	0.54
31:BA:1937:A:C8	31:BA:1939:U:H2'	2.43	0.54
31:BA:2309:A:N3	31:BA:2310:A:H2	2.06	0.54
31:BA:2520:C:N4	31:BA:2567:G:C5	2.76	0.54
31:BA:2593:U:H2'	31:BA:2594:C:H6	1.71	0.54
34:BE:93:VAL:H	34:BE:95:ILE:CD1	2.12	0.54
35:BF:53:THR:C	35:BF:55:GLY:N	2.61	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:15:VAL:C	38:BI:17:GLN:H	2.11	0.54
40:BO:22:ILE:HG22	40:BO:40:VAL:HB	1.90	0.54
41:BP:48:PRO:O	41:BP:50:ARG:N	2.40	0.54
42:BQ:9:TYR:CD2	42:BQ:9:TYR:C	2.81	0.54
42:BQ:116:GLU:O	42:BQ:119:ARG:N	2.40	0.54
45:BT:92:GLY:C	45:BT:94:ALA:H	2.12	0.54
49:BX:29:TRP:CH2	49:BX:76:ARG:NH1	2.76	0.54
49:BX:30:VAL:HG12	49:BX:31:HIS:H	1.72	0.54
1:CA:342:C:H2'	1:CA:343:U:O4'	2.08	0.54
1:CA:343:U:N3	1:CA:347:G:C6	2.76	0.54
1:CA:356:A:H2'	1:CA:357:G:O5'	2.08	0.54
1:CA:674:G:H2'	1:CA:675:A:C8	2.43	0.54
1:CA:690:G:OP2	11:CK:27:ASN:HB3	2.08	0.54
1:CA:734:G:C2	1:CA:735:C:C2	2.96	0.54
1:CA:1088:G:H1	1:CA:1097:C:N4	2.04	0.54
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.89	0.54
2:CB:61:LEU:HA	2:CB:64:ARG:HG2	1.88	0.54
2:CB:67:THR:HG21	2:CB:155:LEU:HD21	1.89	0.54
2:CB:105:PHE:HZ	2:CB:156:LYS:HA	1.73	0.54
11:CK:44:SER:OG	11:CK:47:VAL:HG23	2.07	0.54
12:CL:22:SER:O	12:CL:24:VAL:N	2.41	0.54
20:CT:50:GLU:O	20:CT:54:LYS:HB2	2.07	0.54
31:DA:8:A:H2	31:DA:2896:C:N3	2.05	0.54
31:DA:80:G:O2'	31:DA:81:G:H5'	2.07	0.54
31:DA:673:C:H4'	35:DF:82:ILE:HG12	1.89	0.54
31:DA:740:U:H2'	31:DA:741:G:C8	2.43	0.54
31:DA:792:G:C4'	31:DA:793:A:H5'	2.38	0.54
31:DA:866:A:C2	31:DA:867:C:C4	2.95	0.54
31:DA:1116:C:H2'	31:DA:1116:C:O2	2.07	0.54
31:DA:1141:U:C5	39:DN:64:GLY:HA3	2.43	0.54
31:DA:1192:G:O2'	31:DA:1193:G:H5'	2.07	0.54
31:DA:1281:G:C2	31:DA:1290:C:C2	2.95	0.54
31:DA:1374:G:C6	31:DA:1375:C:C4	2.96	0.54
31:DA:1600:C:O2'	31:DA:1601:G:H5'	2.07	0.54
31:DA:2233:U:H2'	31:DA:2234:G:C8	2.43	0.54
31:DA:2286:A:HO2'	31:DA:2286:A:H8	1.54	0.54
31:DA:2376:A:C8	31:DA:2377:A:C8	2.95	0.54
31:DA:2829:C:C3'	31:DA:2830:G:H5''	2.37	0.54
55:DA:3320:TEL:H121	55:DA:3320:TEL:C23	2.36	0.54
33:DD:14:ARG:HH11	33:DD:14:ARG:HG2	1.72	0.54
33:DD:16:MET:HG3	33:DD:206:LEU:O	2.07	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:9:VAL:CG2	34:DE:25:VAL:HB	2.37	0.54
35:DF:195:ASP:HB3	35:DF:197:ASP:HB3	1.90	0.54
36:DG:3:LEU:HA	36:DG:97:ASP:OD2	2.08	0.54
36:DG:96:ARG:CG	36:DG:97:ASP:H	2.21	0.54
38:DI:113:ARG:HB2	38:DI:130:TYR:CZ	2.43	0.54
40:DO:23:ARG:NH1	40:DO:23:ARG:HG2	2.18	0.54
44:DS:71:ARG:HG2	44:DS:101:LEU:CG	2.38	0.54
47:DV:2:PHE:CD2	47:DV:42:GLY:HA2	2.43	0.54
47:DV:24:LYS:HA	47:DV:94:LEU:HD12	1.89	0.54
47:DV:62:LEU:HD22	47:DV:98:GLU:HG2	1.88	0.54
49:DX:82:GLN:HG3	49:DX:85:PRO:HD3	1.90	0.54
1:AA:826:C:H2'	1:AA:827:U:H6	1.73	0.54
2:AB:33:TYR:O	2:AB:34:ALA:HB2	2.08	0.54
4:AD:10:ARG:HG2	4:AD:10:ARG:NH1	2.23	0.54
27:B5:6:VAL:HG13	31:BA:2016:U:H1'	1.90	0.54
28:B6:13:CYS:HB2	28:B6:22:ALA:HB3	1.89	0.54
30:B8:41:ILE:HD12	30:B8:42:ARG:H	1.72	0.54
31:BA:146:G:H8	31:BA:146:G:H5''	1.73	0.54
31:BA:220:G:O2'	31:BA:233:A:N3	2.36	0.54
31:BA:412:A:N7	31:BA:2411:A:H2	2.06	0.54
31:BA:470:A:O2'	31:BA:471:A:H5'	2.07	0.54
31:BA:1358:G:O2'	31:BA:1359:A:H5''	2.08	0.54
31:BA:1607:C:H4'	31:BA:1608:A:O5'	2.08	0.54
31:BA:1833:U:C4	31:BA:1834:U:C5	2.96	0.54
31:BA:2473:U:H2'	31:BA:2474:C:O4'	2.08	0.54
31:BA:2770:G:H5''	31:BA:2771:C:OP2	2.07	0.54
31:BA:2842:G:C6	31:BA:2876:G:C6	2.96	0.54
34:BE:65:GLY:C	34:BE:67:PHE:N	2.61	0.54
37:BH:85:LYS:CE	37:BH:133:VAL:HB	2.38	0.54
39:BN:1:MET:HB3	47:BV:20:LEU:HD22	1.90	0.54
50:BY:19:LYS:HB3	50:BY:20:TYR:CD1	2.42	0.54
51:BZ:54:HIS:HE1	51:BZ:123:ASP:CG	2.12	0.54
1:CA:436:C:OP2	1:CA:436:C:H2'	2.08	0.54
1:CA:575:G:O2'	1:CA:821:G:H5'	2.08	0.54
1:CA:785:G:H2'	1:CA:786:G:H5'	1.90	0.54
1:CA:1088:G:N2	1:CA:1097:C:N3	2.49	0.54
4:CD:79:PHE:O	4:CD:82:ALA:HB3	2.07	0.54
7:CG:115:ARG:HB2	7:CG:118:VAL:HG22	1.88	0.54
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.08	0.54
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.43	0.54
9:CI:5:TYR:HA	9:CI:17:VAL:O	2.08	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:46:ALA:O	9:CI:49:PRO:HD2	2.07	0.54
23:D1:17:SER:O	23:D1:44:PRO:CD	2.50	0.54
27:D5:40:LYS:NZ	27:D5:46:CYS:O	2.40	0.54
28:D6:44:ARG:O	28:D6:45:LYS:HG2	2.08	0.54
31:DA:26:G:C6	31:DA:27:G:N1	2.75	0.54
31:DA:58:G:OP1	49:DX:72:LYS:HA	2.08	0.54
31:DA:380:U:H2'	31:DA:381:G:C8	2.43	0.54
31:DA:393:C:C4	31:DA:394:A:N7	2.76	0.54
31:DA:806:C:OP2	41:DP:39:LYS:CG	2.56	0.54
31:DA:855:G:C6	31:DA:856:C:C4	2.95	0.54
31:DA:884:C:O2'	31:DA:892:G:C8	2.46	0.54
31:DA:987:G:H2'	31:DA:988:A:O4'	2.07	0.54
31:DA:1257:C:H1'	35:DF:82:ILE:O	2.08	0.54
31:DA:2052:G:C2	31:DA:2053:G:C8	2.96	0.54
31:DA:2307:G:OP1	31:DA:2307:G:H4'	2.08	0.54
31:DA:2516:G:O2'	31:DA:2517:C:H5'	2.08	0.54
31:DA:2593:U:H2'	31:DA:2594:C:H6	1.73	0.54
33:DD:17:THR:HG23	33:DD:205:VAL:CB	2.37	0.54
33:DD:72:LYS:HE3	33:DD:99:ASP:OD1	2.08	0.54
33:DD:172:TYR:CD1	33:DD:186:HIS:CA	2.91	0.54
35:DF:1:MET:O	35:DF:2:LYS:C	2.47	0.54
35:DF:3:GLU:HG3	35:DF:19:GLU:HB2	1.90	0.54
35:DF:36:VAL:HG11	35:DF:183:VAL:CG1	2.38	0.54
35:DF:115:ALA:O	35:DF:118:ALA:HB3	2.07	0.54
36:DG:127:GLY:CA	36:DG:166:ASP:HB3	2.32	0.54
37:DH:116:GLU:HG2	37:DH:117:PRO:CD	2.38	0.54
37:DH:163:TYR:N	37:DH:163:TYR:CD1	2.76	0.54
38:DI:10:GLU:O	38:DI:12:LEU:CD2	2.54	0.54
41:DP:147:LEU:C	41:DP:148:LEU:HD13	2.27	0.54
43:DR:8:ARG:HA	43:DR:8:ARG:HE	1.73	0.54
43:DR:33:ARG:HG2	43:DR:115:GLU:CG	2.35	0.54
44:DS:34:HIS:CB	44:DS:53:SER:HB2	2.38	0.54
44:DS:101:LEU:O	44:DS:102:ALA:O	2.25	0.54
45:DT:29:ARG:CG	45:DT:85:LYS:HA	2.38	0.54
46:DU:36:ARG:HD3	46:DU:40:PHE:HZ	1.73	0.54
51:DZ:155:LEU:O	51:DZ:157:LEU:HD23	2.08	0.54
1:AA:198:G:H21	1:AA:199:G:H1'	1.72	0.53
1:AA:1061:G:C2'	1:AA:1062:U:H5'	2.37	0.53
1:AA:1378:C:N4	1:AA:1379:G:C2	2.75	0.53
2:AB:140:HIS:O	2:AB:143:GLU:HB2	2.08	0.53
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.07	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:45:LEU:HD12	6:AF:57:GLN:HB3	1.88	0.53
9:AI:28:VAL:HA	9:AI:63:ILE:O	2.07	0.53
20:AT:93:GLU:HG2	20:AT:93:GLU:O	2.07	0.53
22:B0:40:GLN:NE2	22:B0:43:THR:C	2.62	0.53
24:B2:14:ARG:CZ	24:B2:15:LYS:HB3	2.38	0.53
27:B5:55:ARG:O	27:B5:56:LYS:HG3	2.08	0.53
28:B6:22:ALA:HB2	28:B6:39:TYR:CE2	2.43	0.53
31:BA:288:C:C2	31:BA:289:A:C8	2.96	0.53
31:BA:386:G:H3'	31:BA:388:G:N2	2.22	0.53
31:BA:589:C:O2'	31:BA:590:A:H5'	2.07	0.53
31:BA:648:G:O4'	31:BA:2351:G:H5''	2.08	0.53
31:BA:953:A:O2'	31:BA:954:G:H5'	2.08	0.53
31:BA:1296:G:C2	31:BA:1645:G:C4	2.96	0.53
31:BA:1504:C:O5'	31:BA:1504:C:H6	1.91	0.53
31:BA:1686:C:N4	31:BA:1687:G:C6	2.77	0.53
31:BA:1905:C:H2'	31:BA:1930:G:H5'	1.89	0.53
31:BA:1992:G:O2'	31:BA:1993:U:OP2	2.23	0.53
31:BA:2101:G:C6	31:BA:2102:U:C5	2.96	0.53
31:BA:2228:G:C5	31:BA:2229:C:C5	2.95	0.53
31:BA:2282:G:H5'	31:BA:2389:G:H1'	1.91	0.53
31:BA:2415:G:C2'	31:BA:2416:C:H5'	2.38	0.53
31:BA:2470:G:C6	31:BA:2471:C:C5	2.90	0.53
31:BA:2702:U:O2'	31:BA:2703:C:C6	2.55	0.53
40:BO:23:ARG:HD2	40:BO:24:VAL:N	2.22	0.53
41:BP:24:GLY:HA3	41:BP:33:ARG:NH2	2.23	0.53
45:BT:102:ILE:O	45:BT:103:ARG:C	2.46	0.53
47:BV:43:GLU:N	47:BV:48:GLY:HA2	2.21	0.53
1:CA:276:G:H5''	17:CQ:15:MET:HE1	1.89	0.53
1:CA:445:G:C2	1:CA:446:G:C5	2.96	0.53
1:CA:922:G:C1'	5:CE:19:MET:HB2	2.33	0.53
1:CA:1074:G:O2'	1:CA:1101:A:N1	2.25	0.53
3:CC:126:ARG:C	3:CC:127:ARG:HD2	2.28	0.53
4:CD:20:TYR:HD2	4:CD:26:CYS:CB	2.20	0.53
4:CD:47:ARG:HH21	4:CD:49:ARG:NH2	2.05	0.53
4:CD:59:ARG:HA	4:CD:59:ARG:NE	2.22	0.53
4:CD:109:GLY:O	4:CD:111:ALA:N	2.41	0.53
6:CF:100:ASN:H	18:CR:23:LYS:HZ2	1.55	0.53
22:D0:41:ARG:HD2	22:D0:41:ARG:N	2.07	0.53
27:D5:45:VAL:HG22	27:D5:51:TYR:CE1	2.42	0.53
28:D6:48:VAL:CG2	28:D6:49:HIS:N	2.71	0.53
30:D8:5:LYS:HG2	31:DA:242:G:C8	2.43	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:32:LEU:HD23	30:D8:35:GLN:CA	2.38	0.53
31:DA:53:A:H61	31:DA:117:G:C2'	2.21	0.53
31:DA:157:U:OP2	31:DA:157:U:H6	1.90	0.53
31:DA:814:C:H5''	47:DV:86:GLY:CA	2.38	0.53
31:DA:995:C:C2	39:DN:4:TYR:CZ	2.95	0.53
31:DA:1341:U:N3	49:DX:77:LYS:HE2	2.23	0.53
31:DA:1638:C:H4'	31:DA:2710:C:O2	2.08	0.53
31:DA:1686:C:H2'	31:DA:1687:G:H5'	1.88	0.53
31:DA:1769:G:C5	31:DA:1984:G:C6	2.96	0.53
31:DA:1811:G:C4	31:DA:1812:A:C8	2.97	0.53
31:DA:2393:A:OP1	41:DP:62:LEU:HD12	2.09	0.53
31:DA:2769:C:C2'	31:DA:2770:G:O5'	2.56	0.53
31:DA:2779:U:O4'	31:DA:2779:U:O2	2.25	0.53
31:DA:2790:A:H2'	31:DA:2791:C:C5'	2.39	0.53
32:DB:87:G:H3'	32:DB:88:C:C5'	2.32	0.53
34:DE:48:GLN:HE22	34:DE:64:LYS:HZ1	1.55	0.53
39:DN:34:LEU:HD21	39:DN:120:LEU:HD23	1.90	0.53
41:DP:97:PRO:O	41:DP:98:GLU:CB	2.56	0.53
46:DU:31:SER:C	46:DU:33:ARG:H	2.10	0.53
48:DW:37:ARG:HH11	48:DW:37:ARG:HG3	1.73	0.53
51:DZ:54:HIS:HE1	51:DZ:123:ASP:CG	2.11	0.53
51:DZ:130:PRO:HA	51:DZ:133:ILE:CG1	2.37	0.53
1:AA:424:G:N3	1:AA:425:G:C8	2.77	0.53
1:AA:445:G:C2	1:AA:446:G:C5	2.97	0.53
1:AA:692:U:H2'	1:AA:694:A:OP2	2.08	0.53
1:AA:960:U:C4	1:AA:1225:A:H1'	2.42	0.53
1:AA:1400:C:H4'	1:AA:1401:G:OP2	2.08	0.53
1:AA:1423:G:P	40:BO:48:PRO:HB3	2.48	0.53
1:AA:1434:A:N6	1:AA:1467:G:H1'	2.20	0.53
2:AB:136:VAL:O	2:AB:140:HIS:HB2	2.07	0.53
5:AE:7:GLU:HG2	5:AE:112:LEU:CD2	2.38	0.53
5:AE:48:ALA:HB1	5:AE:49:PRO:HD2	1.91	0.53
6:AF:5:GLU:HB3	6:AF:62:TRP:HE1	1.72	0.53
6:AF:100:ASN:H	18:AR:23:LYS:NZ	2.06	0.53
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.91	0.53
23:B1:37:ILE:HG23	23:B1:37:ILE:O	2.06	0.53
29:B7:1:MET:O	29:B7:2:LYS:C	2.45	0.53
31:BA:287:C:C4	31:BA:288:C:C5	2.97	0.53
31:BA:610:G:H2'	31:BA:611:C:H6	1.71	0.53
31:BA:780:G:C2	31:BA:782:A:C2	2.97	0.53
31:BA:811:U:O5'	41:BP:25:SER:O	2.26	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:951:C:H2'	31:BA:952:G:H5'	1.87	0.53
31:BA:1116:C:H2'	31:BA:1116:C:O2	2.07	0.53
31:BA:1204:A:N1	31:BA:1241:A:H2	2.06	0.53
31:BA:1450:G:C6	31:BA:1450(A):C:C4	2.96	0.53
31:BA:1902:C:H4'	33:BD:244:ARG:HA	1.91	0.53
31:BA:2071:A:H2	31:BA:2440:C:N4	2.06	0.53
31:BA:2273:A:H2'	31:BA:2274:A:H8	1.73	0.53
32:BB:16:G:C2	32:BB:17:C:H6	2.26	0.53
32:BB:45:A:H2'	32:BB:46:A:H5'	1.89	0.53
32:BB:73:A:H3'	32:BB:74:U:H6	1.72	0.53
34:BE:61:ARG:H	34:BE:62:PRO:HD2	1.73	0.53
34:BE:92:THR:H	34:BE:95:ILE:HD11	1.73	0.53
34:BE:167:VAL:HG22	34:BE:168:MET:N	2.22	0.53
36:BG:11:TYR:HD2	36:BG:12:TYR:CD1	2.26	0.53
37:BH:95:ARG:HB2	37:BH:128:PRO:HB2	1.88	0.53
39:BN:127:ASP:HB3	39:BN:129:PRO:HD3	1.89	0.53
41:BP:98:GLU:O	41:BP:101:VAL:HG13	2.08	0.53
42:BQ:32:TYR:CZ	42:BQ:111:GLU:HB2	2.43	0.53
47:BV:99:ILE:HG22	47:BV:100:ARG:HG2	1.91	0.53
1:CA:253:U:H2'	1:CA:254:G:H8	1.73	0.53
1:CA:758:G:H5''	1:CA:880:C:H1'	1.90	0.53
7:CG:75:VAL:HG21	7:CG:144:MET:HB3	1.91	0.53
17:CQ:52:LYS:HD2	17:CQ:52:LYS:H	1.72	0.53
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.24	0.53
22:D0:43:THR:N	31:DA:2331:G:H4'	2.23	0.53
31:DA:701:G:N2	31:DA:732:C:C2	2.76	0.53
31:DA:995:C:OP2	46:DU:54:LYS:HE3	2.08	0.53
31:DA:1345:C:O2'	31:DA:1346:G:H5'	2.08	0.53
31:DA:1394:U:H3'	31:DA:1394:U:H6	1.74	0.53
31:DA:1441:G:O2'	31:DA:1442:G:H5'	2.07	0.53
31:DA:1803:A:H2	31:DA:1822:G:N3	2.06	0.53
31:DA:1900:A:N1	31:DA:1970:A:C6	2.75	0.53
31:DA:1935:G:H1'	31:DA:1964:G:N2	2.22	0.53
31:DA:2106:G:H1'	31:DA:2184:G:H22	1.73	0.53
34:DE:202:LYS:N	34:DE:202:LYS:HD3	2.23	0.53
41:DP:17:LYS:C	41:DP:19:VAL:N	2.61	0.53
49:DX:60:ARG:CB	49:DX:72:LYS:H	2.21	0.53
49:DX:72:LYS:CG	49:DX:74:PRO:HD3	2.38	0.53
1:AA:353:A:H2'	1:AA:354:G:OP2	2.08	0.53
1:AA:358:U:H2'	1:AA:359:U:H6	1.72	0.53
1:AA:552:U:O2'	1:AA:553:A:H5'	2.07	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1063:C:OP2	1:AA:1064:G:O2'	2.24	0.53
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.38	0.53
8:AH:97:VAL:O	8:AH:100:ILE:HG13	2.07	0.53
11:AK:50:TYR:HB3	11:AK:54:ARG:O	2.08	0.53
16:AP:20:VAL:HG22	16:AP:21:VAL:H	1.72	0.53
16:AP:26:ARG:CD	16:AP:31:LYS:O	2.56	0.53
17:AQ:84:LEU:O	17:AQ:87:LYS:HB2	2.08	0.53
20:AT:79:ARG:HA	20:AT:82:SER:OG	2.08	0.53
22:B0:72:ARG:O	22:B0:75:LEU:HB2	2.08	0.53
27:B5:22:HIS:HD2	31:BA:2046:G:O2'	1.92	0.53
31:BA:79:G:C4	31:BA:80:G:C8	2.97	0.53
31:BA:259:G:H21	31:BA:621:A:H8	1.56	0.53
31:BA:479:A:H1'	31:BA:481:G:H5''	1.90	0.53
31:BA:542:C:C2'	31:BA:543:C:OP1	2.55	0.53
31:BA:553:G:H2'	31:BA:554:U:O4'	2.08	0.53
31:BA:626:U:C5'	31:BA:627:A:H5'	2.39	0.53
31:BA:834:C:O2'	31:BA:835:A:H5'	2.09	0.53
31:BA:856:C:H5''	31:BA:856:C:H6	1.72	0.53
31:BA:954:G:OP1	42:BQ:15:GLY:N	2.40	0.53
31:BA:1433:U:O2	31:BA:1561:G:C2	2.62	0.53
31:BA:1887:C:C3'	31:BA:1888:G:H5'	2.39	0.53
31:BA:1893:C:C5	31:BA:1894:C:C5	2.96	0.53
31:BA:2300:G:O2'	31:BA:2301:C:H5'	2.08	0.53
34:BE:48:GLN:HE22	34:BE:64:LYS:HZ1	1.56	0.53
36:BG:39:ILE:HA	36:BG:157:ILE:HB	1.90	0.53
46:BU:76:TYR:CD2	46:BU:76:TYR:C	2.81	0.53
47:BV:60:GLU:O	47:BV:62:LEU:HG	2.07	0.53
1:CA:612:C:O2	1:CA:629:G:N2	2.42	0.53
1:CA:669:U:O2'	1:CA:670:G:H5'	2.08	0.53
1:CA:833:U:H3	1:CA:853:G:H1	1.57	0.53
1:CA:986:A:H2'	1:CA:987:G:O4'	2.09	0.53
1:CA:1226:C:H42	13:CM:104:ARG:HD2	1.74	0.53
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.08	0.53
4:CD:80:GLU:O	4:CD:84:LYS:HG2	2.08	0.53
5:CE:145:LYS:O	5:CE:149:GLU:HG2	2.08	0.53
6:CF:22:GLU:HA	6:CF:25:ILE:HG12	1.88	0.53
10:CJ:51:ARG:CG	10:CJ:61:GLU:HB2	2.39	0.53
16:CP:22:THR:HG22	16:CP:32:TYR:CA	2.37	0.53
16:CP:26:ARG:CD	16:CP:31:LYS:O	2.55	0.53
17:CQ:27:PHE:CZ	17:CQ:36:ILE:HD11	2.43	0.53
22:D0:1:MET:O	22:D0:2:ALA:HB3	2.09	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:27:GLY:HA3	25:D3:35:ARG:NE	2.23	0.53
29:D7:8:ASN:ND2	29:D7:10:ARG:N	2.55	0.53
31:DA:146:G:H5'	31:DA:146:G:H8	1.72	0.53
31:DA:271(F):C:H42	31:DA:271(R):G:H1	1.56	0.53
31:DA:547:A:O2'	31:DA:548:A:OP2	2.22	0.53
31:DA:651:G:N3	31:DA:651:G:H2'	2.22	0.53
31:DA:1023:U:H4'	31:DA:1123:C:OP1	2.09	0.53
31:DA:1713:U:O2'	31:DA:1714:G:H5'	2.08	0.53
31:DA:1790:C:H4'	33:DD:209:ALA:HB1	1.89	0.53
31:DA:2075:U:C4	31:DA:2238:G:C6	2.96	0.53
31:DA:2471:C:O2	31:DA:2471:C:C2'	2.54	0.53
31:DA:2590:A:H2'	31:DA:2591:C:C6	2.43	0.53
31:DA:2711:A:N7	31:DA:2714:G:C8	2.76	0.53
32:DB:53:A:C2	32:DB:54:G:H1'	2.43	0.53
35:DF:115:ALA:O	35:DF:116:ASP:C	2.47	0.53
36:DG:129:GLY:O	36:DG:130:ASN:ND2	2.42	0.53
37:DH:68:THR:O	37:DH:69:ARG:C	2.47	0.53
37:DH:85:LYS:NZ	37:DH:133:VAL:HG21	2.24	0.53
37:DH:89:ILE:CD1	37:DH:89:ILE:H	2.20	0.53
38:DI:12:LEU:HD23	38:DI:12:LEU:H	1.72	0.53
38:DI:101:LEU:CD2	38:DI:109:ILE:HG12	2.36	0.53
39:DN:42:TRP:CG	39:DN:43:THR:N	2.76	0.53
39:DN:42:TRP:H	46:DU:64:ARG:NH2	2.06	0.53
39:DN:90:MET:O	39:DN:93:THR:O	2.26	0.53
40:DO:104:ARG:CZ	40:DO:104:ARG:HB3	2.37	0.53
41:DP:86:LYS:HB2	41:DP:117:GLU:O	2.08	0.53
41:DP:146:VAL:HG13	41:DP:147:LEU:N	2.20	0.53
48:DW:75:TYR:CD1	48:DW:75:TYR:O	2.61	0.53
49:DX:78:LYS:HD3	49:DX:78:LYS:H	1.72	0.53
51:DZ:45:ASP:O	51:DZ:46:LYS:C	2.46	0.53
1:AA:396:G:O2'	1:AA:398:C:OP1	2.25	0.53
1:AA:491:G:C4	1:AA:492:G:C8	2.96	0.53
1:AA:654:G:C2	1:AA:753:A:C4	2.96	0.53
1:AA:681:C:N3	1:AA:710:G:C2	2.77	0.53
1:AA:826:C:H2'	1:AA:827:U:C6	2.43	0.53
1:AA:1072:G:C5	1:AA:1073:U:C4	2.96	0.53
1:AA:1113:C:H6	1:AA:1113:C:O5'	1.92	0.53
1:AA:1292:U:O2'	1:AA:1293:G:H5'	2.09	0.53
1:AA:1530:G:OP1	1:AA:1530:G:H4'	2.08	0.53
2:AB:105:PHE:HZ	2:AB:156:LYS:HA	1.73	0.53
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.61	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:36:ASP:OD2	5:AE:38:GLN:HB2	2.08	0.53
10:AJ:16:LEU:HD13	10:AJ:70:ARG:HE	1.74	0.53
25:B3:45:GLY:HA3	31:BA:851:U:O2'	2.07	0.53
31:BA:142:A:H8	31:BA:1595:G:N2	2.05	0.53
31:BA:729:G:O5'	33:BD:208:LYS:NZ	2.40	0.53
31:BA:1010:A:N3	31:BA:1153:C:H1'	2.22	0.53
31:BA:1254:A:H5'	31:BA:1255:U:C5'	2.38	0.53
31:BA:1337:G:OP2	49:BX:63:LYS:HE2	2.08	0.53
31:BA:1461:G:C2	31:BA:1462:C:C6	2.96	0.53
31:BA:2321:G:H5''	31:BA:2322:A:OP2	2.07	0.53
31:BA:2886:G:N3	31:BA:2887:U:C6	2.77	0.53
32:BB:15:A:H1'	32:BB:110:G:N9	2.22	0.53
33:BD:35:LYS:CE	33:BD:104:TYR:CD1	2.91	0.53
33:BD:66:ASP:OD2	33:BD:69:ARG:HG2	2.07	0.53
36:BG:151:ALA:HB3	36:BG:153:ARG:HH12	1.74	0.53
37:BH:89:ILE:HD11	37:BH:129:THR:CB	2.38	0.53
41:BP:96:THR:HG22	41:BP:126:VAL:HG23	1.90	0.53
44:BS:12:PHE:CD1	44:BS:12:PHE:O	2.61	0.53
49:BX:72:LYS:CG	49:BX:73:ARG:N	2.58	0.53
49:BX:90:GLU:C	49:BX:92:LEU:H	2.10	0.53
1:CA:611:A:N6	1:CA:629:G:H1	2.07	0.53
1:CA:1116:C:N4	1:CA:1117:G:N7	2.57	0.53
1:CA:1394:A:C5	1:CA:1501:C:H4'	2.43	0.53
1:CA:1434:A:N6	1:CA:1467:G:H1'	2.20	0.53
3:CC:19:GLU:HG2	3:CC:19:GLU:O	2.09	0.53
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.07	0.53
6:CF:93:SER:C	6:CF:94:GLN:HG3	2.28	0.53
9:CI:96:LEU:HD23	9:CI:102:LEU:HD12	1.90	0.53
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.08	0.53
14:CN:41:ARG:HG3	14:CN:42:ILE:N	2.23	0.53
28:D6:25:LYS:CE	28:D6:27:LYS:NZ	2.71	0.53
28:D6:32:ASN:O	28:D6:33:LYS:CB	2.56	0.53
31:DA:267:C:H2'	31:DA:268:C:H6	1.72	0.53
31:DA:287:C:C4	31:DA:288:C:C5	2.97	0.53
31:DA:394:A:C5	31:DA:395:U:C4	2.96	0.53
31:DA:478:A:N1	31:DA:500:G:H4'	2.23	0.53
31:DA:524:U:H2'	31:DA:525:U:C6	2.44	0.53
31:DA:626:U:H2'	31:DA:626:U:O2	2.08	0.53
31:DA:781:A:H5'	33:DD:219:PRO:HG2	1.91	0.53
31:DA:784:A:C5	33:DD:229:VAL:HG21	2.43	0.53
31:DA:910:A:C4	42:DQ:13:GLN:OE1	2.61	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1269:A:H2'	31:DA:1270:C:C6	2.44	0.53
31:DA:1670:C:O2	34:DE:129:HIS:CE1	2.60	0.53
31:DA:1784:A:H4'	31:DA:1785:A:O5'	2.08	0.53
31:DA:1886:C:H2'	31:DA:1887:C:C6	2.43	0.53
31:DA:1921:G:H2'	31:DA:1922:G:H8	1.73	0.53
31:DA:2063:C:O2	31:DA:2450:A:N1	2.42	0.53
31:DA:2197:U:C6	31:DA:2224:G:C6	2.96	0.53
31:DA:2220:G:H2'	31:DA:2221:G:H8	1.71	0.53
31:DA:2320:A:N3	31:DA:2320:A:H2'	2.23	0.53
31:DA:2473:U:H2'	31:DA:2474:C:O4'	2.08	0.53
32:DB:15:A:H1'	32:DB:110:G:N9	2.23	0.53
33:DD:64:ILE:HG12	33:DD:64:ILE:O	2.07	0.53
33:DD:137:PRO:O	33:DD:140:THR:HG23	2.09	0.53
35:DF:132:VAL:HG22	35:DF:133:ASN:N	2.22	0.53
36:DG:141:PHE:C	36:DG:143:GLU:H	2.11	0.53
37:DH:70:THR:HG22	37:DH:74:ASN:HD21	1.72	0.53
38:DI:9:LEU:H	38:DI:13:GLY:HA2	1.72	0.53
41:DP:6:LEU:HG	41:DP:8:PRO:O	2.08	0.53
41:DP:66:GLY:O	41:DP:68:GLN:HB3	2.09	0.53
44:DS:95:HIS:CG	44:DS:96:GLY:N	2.74	0.53
46:DU:83:LEU:CD1	46:DU:113:ALA:HB2	2.38	0.53
47:DV:25:LEU:HB2	47:DV:94:LEU:HD11	1.90	0.53
48:DW:47:VAL:O	48:DW:50:VAL:HG12	2.08	0.53
1:AA:189:G:O6	1:AA:189(L):G:C6	2.62	0.53
1:AA:378:G:O6	1:AA:385:C:N4	2.42	0.53
1:AA:579:G:H2'	1:AA:580:U:C6	2.43	0.53
1:AA:677:U:O2'	1:AA:678:U:H5'	2.08	0.53
1:AA:837:G:C2	1:AA:838:G:C8	2.96	0.53
4:AD:209:ARG:HH11	4:AD:209:ARG:HG3	1.70	0.53
6:AF:44:GLY:O	6:AF:45:LEU:C	2.47	0.53
11:AK:79:SER:O	11:AK:80:VAL:HG13	2.09	0.53
16:AP:7:ALA:O	16:AP:9:PHE:HD2	1.92	0.53
31:BA:575:A:OP2	31:BA:2055:C:N4	2.24	0.53
31:BA:581:C:H2'	31:BA:582:G:C8	2.43	0.53
31:BA:729:G:C5	33:BD:208:LYS:HB2	2.44	0.53
31:BA:762:U:H4'	31:BA:763:G:O5'	2.08	0.53
31:BA:794:G:H2'	31:BA:795:C:C6	2.44	0.53
31:BA:1011:G:OP1	46:BU:75:ASN:HB3	2.08	0.53
31:BA:1301:A:O2'	31:BA:1302:A:H3'	2.07	0.53
31:BA:1461:G:N3	31:BA:1462:C:C6	2.76	0.53
31:BA:1608:A:H1'	31:BA:1610:A:OP2	2.08	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1652:A:H2'	31:BA:1653:G:H5'	1.89	0.53
31:BA:2517:C:C6	31:BA:2542:A:N1	2.77	0.53
31:BA:2552:U:O2	31:BA:2554:U:H5'	2.08	0.53
31:BA:2646:C:H2'	31:BA:2647:U:O4'	2.08	0.53
35:BF:57:VAL:CG1	35:BF:58:ALA:N	2.72	0.53
36:BG:16:ARG:HH11	36:BG:16:ARG:CG	2.22	0.53
38:BI:71:ILE:HG12	38:BI:72:LEU:HD22	1.90	0.53
38:BI:144:VAL:O	38:BI:145:VAL:HB	2.08	0.53
39:BN:31:ALA:O	39:BN:34:LEU:N	2.42	0.53
44:BS:71:ARG:HG2	44:BS:101:LEU:CG	2.38	0.53
47:BV:4:ILE:HD12	47:BV:40:LEU:HG	1.91	0.53
49:BX:65:ARG:CZ	49:BX:66:LEU:N	2.72	0.53
1:CA:193:C:O2'	1:CA:194:C:H5'	2.09	0.53
1:CA:397:A:H5''	1:CA:397:A:N3	2.24	0.53
1:CA:424:G:N3	1:CA:425:G:C8	2.77	0.53
1:CA:428:G:C4'	1:CA:429:U:O5'	2.57	0.53
1:CA:598:U:H4'	8:CH:94:TYR:CG	2.43	0.53
1:CA:629:G:H2'	1:CA:630:G:O4'	2.08	0.53
1:CA:685:G:O2'	1:CA:686:U:C5'	2.51	0.53
1:CA:872:A:C2	1:CA:874:G:C6	2.96	0.53
1:CA:922:G:C8	5:CE:18:ARG:CB	2.85	0.53
1:CA:965:A:H5'	1:CA:969:A:O4'	2.08	0.53
1:CA:1030(C):G:H2'	1:CA:1030(D):A:C8	2.43	0.53
1:CA:1072:G:C5	1:CA:1073:U:C4	2.96	0.53
1:CA:1438:G:C4	1:CA:1439:C:C5	2.97	0.53
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.38	0.53
3:CC:121:ALA:HB2	3:CC:198:VAL:HG21	1.91	0.53
5:CE:93:PRO:HA	5:CE:118:ILE:HD12	1.90	0.53
8:CH:53:VAL:O	8:CH:54:ASP:HB2	2.06	0.53
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.29	0.53
27:D5:36:CYS:CB	27:D5:49:CYS:SG	2.96	0.53
31:DA:18:C:H2'	31:DA:19:C:C6	2.44	0.53
31:DA:38:A:C2	31:DA:442:G:C2	2.96	0.53
31:DA:204:A:H8	31:DA:204:A:OP1	1.91	0.53
31:DA:266:G:H2'	31:DA:267:C:O5'	2.09	0.53
31:DA:626:U:H5''	31:DA:627:A:H5'	1.91	0.53
31:DA:1405:U:O2'	31:DA:1406:U:H5'	2.09	0.53
31:DA:1845:G:C2'	31:DA:1846:G:H5'	2.37	0.53
31:DA:2070:G:H2'	31:DA:2071:A:H8	1.74	0.53
31:DA:2517:C:C6	31:DA:2542:A:C2	2.97	0.53
34:DE:93:VAL:C	34:DE:95:ILE:N	2.62	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:172:LEU:HG	36:DG:173:LEU:CD2	2.39	0.53
37:DH:85:LYS:HZ3	37:DH:145:ALA:CA	2.21	0.53
39:DN:128:HIS:NE2	39:DN:131:GLN:HB3	2.24	0.53
41:DP:75:ILE:HD13	41:DP:75:ILE:H	1.73	0.53
42:DQ:52:VAL:HA	42:DQ:55:VAL:CG1	2.38	0.53
44:DS:49:VAL:HG11	44:DS:73:LEU:HD13	1.91	0.53
47:DV:82:ARG:CG	47:DV:82:ARG:NH1	2.52	0.53
49:DX:23:GLU:O	49:DX:25:LYS:N	2.41	0.53
50:DY:46:LYS:O	50:DY:47:LYS:NZ	2.38	0.53
50:DY:88:LYS:O	50:DY:89:PHE:CB	2.56	0.53
51:DZ:100:VAL:HG11	51:DZ:137:ILE:HG12	1.90	0.53
51:DZ:120:ILE:H	51:DZ:172:ALA:HA	1.74	0.53
1:AA:503:C:O2'	1:AA:504:C:H5'	2.09	0.53
1:AA:789:U:H2'	1:AA:791:G:OP2	2.09	0.53
1:AA:1076:C:C2	1:AA:1082:G:N2	2.76	0.53
1:AA:1088:G:H1	1:AA:1097:C:N4	2.03	0.53
3:AC:19:GLU:HG2	3:AC:19:GLU:O	2.09	0.53
4:AD:79:PHE:C	4:AD:79:PHE:CD2	2.82	0.53
4:AD:96:LEU:HD22	4:AD:96:LEU:H	1.73	0.53
4:AD:108:LEU:HD11	4:AD:174:LEU:CD2	2.39	0.53
4:AD:119:GLN:CG	4:AD:123:HIS:HD2	2.15	0.53
5:AE:71:LEU:O	5:AE:72:GLN:HG3	2.08	0.53
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.74	0.53
14:AN:3:ARG:O	14:AN:7:ILE:HG23	2.09	0.53
23:B1:87:PRO:HD2	23:B1:88:LYS:N	2.22	0.53
31:BA:71:A:C8	31:BA:71:A:C5'	2.85	0.53
31:BA:73:A:H2'	31:BA:74:A:OP2	2.08	0.53
31:BA:460:A:C2	31:BA:470:A:C4	2.96	0.53
31:BA:485:C:H2'	31:BA:486:C:H6	1.72	0.53
31:BA:1225:G:P	47:BV:88:ARG:HB3	2.48	0.53
31:BA:1473:G:C6	31:BA:1474:C:C4	2.97	0.53
31:BA:1507:A:C2	31:BA:1508:A:H1'	2.43	0.53
31:BA:1527:G:H5''	31:BA:1528:A:OP1	2.08	0.53
31:BA:1528(A):A:C3'	31:BA:1529:G:H5''	2.35	0.53
31:BA:1783:A:H5'	31:BA:2608:G:H4'	1.91	0.53
31:BA:2030:A:H4'	31:BA:2031:A:OP1	2.09	0.53
31:BA:2286:A:C5'	31:BA:2287:A:O4'	2.56	0.53
31:BA:2846:G:H2'	31:BA:2847:U:O4'	2.09	0.53
32:BB:13:A:H2'	32:BB:70:C:O2'	2.08	0.53
33:BD:132:PRO:HA	33:BD:190:TYR:HA	1.88	0.53
34:BE:171:GLU:HB2	34:BE:185:LYS:HG3	1.91	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:138:LEU:C	41:BP:140:ALA:N	2.62	0.53
42:BQ:9:TYR:C	42:BQ:10:ARG:HG3	2.28	0.53
45:BT:28:VAL:HG21	45:BT:46:GLU:CD	2.29	0.53
45:BT:29:ARG:CG	45:BT:85:LYS:HA	2.38	0.53
45:BT:34:VAL:HG13	45:BT:39:ARG:HB3	1.90	0.53
46:BU:62:ILE:HG22	46:BU:63:VAL:N	2.21	0.53
51:BZ:100:VAL:N	51:BZ:124:ILE:O	2.40	0.53
1:CA:28:G:C6	1:CA:29:G:C5	2.97	0.53
1:CA:307:C:H2'	1:CA:308:C:H5'	1.90	0.53
1:CA:339:C:H2'	1:CA:340:U:C6	2.44	0.53
1:CA:759:A:H2'	1:CA:760:G:H5'	1.89	0.53
1:CA:1379:G:C6	1:CA:1380:U:O4	2.61	0.53
1:CA:1400:C:H4'	1:CA:1401:G:OP2	2.08	0.53
1:CA:1501:C:H5''	1:CA:1502:A:OP2	2.08	0.53
4:CD:36:ARG:HB3	4:CD:38:TYR:HE1	1.73	0.53
6:CF:5:GLU:O	6:CF:7:ASN:ND2	2.41	0.53
6:CF:26:ILE:O	6:CF:29:ALA:HB3	2.08	0.53
6:CF:75:LEU:HD23	6:CF:79:LEU:HD11	1.91	0.53
8:CH:86:ILE:HG13	8:CH:133:LEU:CD1	2.38	0.53
26:D4:5:ILE:O	36:DG:67:LYS:HG2	2.08	0.53
30:D8:29:LYS:HA	30:D8:32:LEU:HD12	1.90	0.53
31:DA:123:G:O3'	31:DA:1376:C:H4'	2.08	0.53
31:DA:251:A:C5	31:DA:252:G:H1'	2.44	0.53
31:DA:272(D):G:H1	31:DA:364:C:N4	2.05	0.53
31:DA:322:A:H3'	35:DF:169:ASN:ND2	2.24	0.53
31:DA:370:G:H5''	31:DA:423:A:C6	2.42	0.53
31:DA:623:G:H2'	31:DA:624:C:C6	2.44	0.53
31:DA:775:G:C5	31:DA:794:G:C8	2.96	0.53
31:DA:1040:C:O2'	31:DA:1041:C:P	2.66	0.53
31:DA:1316:U:H2'	31:DA:1317:A:H8	1.73	0.53
31:DA:1458:C:H4'	31:DA:1459:G:N3	2.23	0.53
31:DA:1836:C:O2'	31:DA:1837:C:H5'	2.08	0.53
31:DA:2591:C:H2'	31:DA:2592:G:C8	2.44	0.53
31:DA:2786:U:N3	31:DA:2787:C:C5	2.77	0.53
31:DA:2820:A:C8	34:DE:109:LYS:HE3	2.43	0.53
32:DB:75:G:H5'	32:DB:75:G:C8	2.32	0.53
33:DD:39:LYS:NZ	33:DD:60:ARG:HH11	2.06	0.53
34:DE:2:LYS:HB3	34:DE:95:ILE:HG21	1.91	0.53
34:DE:52:LEU:CB	34:DE:76:ARG:HB2	2.36	0.53
41:DP:85:LEU:HA	41:DP:88:LEU:CB	2.38	0.53
46:DU:88:ILE:O	46:DU:88:ILE:CD1	2.56	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DW:106:ILE:O	48:DW:106:ILE:HG12	2.06	0.53
1:AA:173:U:C6	1:AA:197:A:C2	2.97	0.53
1:AA:363:A:O2'	1:AA:364:A:H5'	2.08	0.53
1:AA:394:G:C4	1:AA:395:C:C5	2.96	0.53
1:AA:785:G:H2'	1:AA:786:G:H5'	1.91	0.53
2:AB:174:VAL:O	2:AB:178:ARG:HB2	2.09	0.53
3:AC:83:ARG:O	3:AC:87:LEU:HG	2.08	0.53
4:AD:18:LYS:CD	4:AD:33:MET:HG2	2.31	0.53
4:AD:94:LEU:O	4:AD:97:LEU:HB2	2.09	0.53
7:AG:79:ARG:CZ	7:AG:84:ASN:HD21	2.22	0.53
13:AM:32:GLU:OE2	13:AM:64:TRP:HH2	1.91	0.53
16:AP:55:ARG:HA	16:AP:55:ARG:HE	1.73	0.53
20:AT:56:MET:O	20:AT:59:ALA:HB3	2.09	0.53
27:B5:33:CYS:SG	27:B5:49:CYS:HB3	2.48	0.53
27:B5:36:CYS:CB	27:B5:49:CYS:SG	2.97	0.53
30:B8:25:MET:HB2	41:BP:62:LEU:CD2	2.30	0.53
30:B8:60:LEU:O	30:B8:63:PRO:HD2	2.08	0.53
31:BA:330:A:HO2'	31:BA:331:A:H8	1.52	0.53
31:BA:647:G:H8	31:BA:647:G:O5'	1.92	0.53
31:BA:869:G:C4	31:BA:870:A:C8	2.97	0.53
31:BA:1307:A:N6	31:BA:1606:G:O2'	2.42	0.53
31:BA:1487:G:C2'	31:BA:1488:G:O5'	2.57	0.53
31:BA:2631:G:N2	34:BE:61:ARG:NH1	2.47	0.53
31:BA:2632:A:N3	34:BE:61:ARG:NH1	2.57	0.53
31:BA:2835:A:C6	31:BA:2879:C:C5	2.96	0.53
31:BA:2845:G:C2'	31:BA:2846:G:H5'	2.39	0.53
32:BB:51:G:OP2	44:BS:62:LYS:HE2	2.09	0.53
33:BD:17:THR:HG23	33:BD:205:VAL:CB	2.38	0.53
35:BF:168:ARG:HG3	35:BF:175:THR:CG2	2.37	0.53
36:BG:169:ALA:O	36:BG:173:LEU:HG	2.08	0.53
37:BH:85:LYS:HE2	37:BH:141:VAL:O	2.09	0.53
38:BI:46:ALA:O	38:BI:49:ALA:HB3	2.08	0.53
38:BI:76:THR:HG21	38:BI:141:LYS:HE3	1.90	0.53
41:BP:140:ALA:HB1	25:D3:38:GLU:CG	2.33	0.53
42:BQ:134:ARG:O	42:BQ:136:ALA:N	2.42	0.53
45:BT:121:ILE:O	45:BT:124:ASP:HB2	2.08	0.53
46:BU:16:LYS:O	46:BU:20:LEU:HD23	2.09	0.53
47:BV:43:GLU:H	47:BV:48:GLY:HA2	1.74	0.53
49:BX:36:LYS:HD3	49:BX:38:GLU:HB2	1.90	0.53
50:BY:8:LYS:HE2	50:BY:72:VAL:CG2	2.37	0.53
1:CA:10:A:H2'	1:CA:11:G:H8	1.73	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:27:G:H2'	1:CA:28:G:H8	1.73	0.53
1:CA:189:G:C6	1:CA:189(L):G:N1	2.77	0.53
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	2.09	0.53
1:CA:261:U:H2'	1:CA:263:A:OP2	2.07	0.53
1:CA:299:G:H2'	1:CA:300:A:C8	2.44	0.53
1:CA:710:G:H2'	1:CA:711:G:H8	1.74	0.53
1:CA:1049:U:H4'	1:CA:1050:G:O5'	2.04	0.53
1:CA:1480:G:H2'	1:CA:1481:U:O4'	2.07	0.53
2:CB:210:SER:O	2:CB:214:ILE:HG12	2.09	0.53
4:CD:108:LEU:C	4:CD:110:PHE:H	2.12	0.53
5:CE:7:GLU:HG2	5:CE:112:LEU:CD2	2.38	0.53
24:D2:45:SER:HB3	24:D2:48:HIS:HB3	1.91	0.53
24:D2:49:LYS:CA	24:D2:53:LEU:HB3	2.39	0.53
29:D7:5:TRP:HA	29:D7:5:TRP:CE3	2.44	0.53
31:DA:112:U:O4	31:DA:113:G:C2	2.62	0.53
31:DA:363(E):U:H5''	31:DA:363(F):A:N3	2.23	0.53
31:DA:435:C:C5	31:DA:436:C:C5	2.97	0.53
31:DA:954:G:OP1	42:DQ:15:GLY:N	2.40	0.53
31:DA:957:A:N6	31:DA:959:A:C2	2.76	0.53
31:DA:1338:G:C2	31:DA:1339:G:C4	2.97	0.53
31:DA:1358:G:H1'	31:DA:1373:A:H61	1.74	0.53
31:DA:2015:A:C2'	31:DA:2016:U:H5'	2.38	0.53
31:DA:2056:G:N2	31:DA:2057:A:N9	2.56	0.53
31:DA:2360:A:O2'	31:DA:2361:A:C5'	2.56	0.53
31:DA:2730:C:H4'	34:DE:168:MET:O	2.08	0.53
31:DA:2807:G:H22	31:DA:2892:A:H61	1.57	0.53
32:DB:57:A:N3	32:DB:58:A:C8	2.77	0.53
32:DB:109:C:H5'	32:DB:110:G:O5'	2.08	0.53
32:DB:110:G:N1	32:DB:111:G:C5	2.77	0.53
35:DF:31:HIS:O	35:DF:34:TRP:HB3	2.08	0.53
37:DH:153:LYS:CG	37:DH:154:PRO:N	2.71	0.53
39:DN:47:ALA:HB2	39:DN:112:LEU:HD21	1.91	0.53
41:DP:47:ASP:HB3	41:DP:48:PRO:CA	2.39	0.53
42:DQ:141:GLN:N	51:DZ:53:ILE:O	2.42	0.53
44:DS:13:ARG:O	44:DS:14:VAL:C	2.47	0.53
44:DS:27:SER:OG	44:DS:40:ILE:HD12	2.08	0.53
45:DT:30:VAL:CG2	45:DT:83:ILE:HG12	2.38	0.53
46:DU:88:ILE:C	46:DU:90:VAL:HG23	2.28	0.53
1:AA:55:A:C5	1:AA:56:U:C4	2.97	0.53
1:AA:184:G:N2	1:AA:194:C:C2	2.77	0.53
1:AA:355:C:C4	1:AA:356:A:N7	2.76	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:509:A:C2	1:AA:510:A:C2	2.97	0.53
1:AA:542:G:H2'	1:AA:543:C:C6	2.41	0.53
1:AA:671:G:C4	1:AA:672:U:C6	2.97	0.53
1:AA:1127:G:H1'	1:AA:1148:U:H3	1.74	0.53
1:AA:1217:C:H2'	1:AA:1218:C:O4'	2.09	0.53
1:AA:1273:G:H3'	1:AA:1274:G:H8	1.74	0.53
5:AE:105:VAL:HB	5:AE:106:PRO:CD	2.39	0.53
8:AH:114:THR:HG23	8:AH:117:GLY:O	2.09	0.53
9:AI:96:LEU:HD23	9:AI:102:LEU:HD12	1.91	0.53
10:AJ:7:LYS:HD3	10:AJ:71:LEU:CD1	2.34	0.53
12:AL:42:THR:OG1	12:AL:52:LEU:HB3	2.09	0.53
13:AM:75:ALA:O	13:AM:79:LYS:HG3	2.09	0.53
24:B2:14:ARG:O	24:B2:17:SER:N	2.42	0.53
27:B5:51:TYR:HB2	27:B5:54:GLY:HA3	1.91	0.53
31:BA:49:A:H4'	31:BA:50:U:OP2	2.09	0.53
31:BA:271(H):G:O2'	31:BA:271(I):G:P	2.67	0.53
31:BA:557:U:O2	39:BN:45:ASN:HB2	2.09	0.53
31:BA:624:C:H2'	31:BA:625:G:H5'	1.89	0.53
31:BA:902:C:O2'	31:BA:903:C:H5'	2.08	0.53
31:BA:952:G:C6	31:BA:953:A:N7	2.77	0.53
31:BA:1436:G:O2'	31:BA:1477:A:H4'	2.08	0.53
31:BA:1437:C:H6	31:BA:1437:C:H5''	1.73	0.53
31:BA:1439:A:C2	31:BA:1553:A:C4	2.97	0.53
31:BA:1458:C:H4'	31:BA:1459:G:N3	2.24	0.53
31:BA:2376:A:C8	31:BA:2377:A:C8	2.97	0.53
36:BG:30:GLU:HG2	36:BG:30:GLU:O	2.09	0.53
36:BG:107:LEU:HD23	36:BG:111:LEU:HD12	1.91	0.53
43:BR:10:LEU:HD22	43:BR:21:TYR:OH	2.09	0.53
44:BS:89:ARG:C	44:BS:92:TYR:HB3	2.29	0.53
44:BS:94:TYR:C	44:BS:94:TYR:CD1	2.77	0.53
47:BV:21:ARG:HA	47:BV:94:LEU:O	2.09	0.53
47:BV:70:ILE:O	47:BV:71:LEU:HB2	2.09	0.53
48:BW:1:MET:HE2	48:BW:2:GLU:H	1.74	0.53
50:BY:90:LEU:HD12	50:BY:91:GLU:CG	2.39	0.53
50:BY:95:LYS:CE	50:BY:100:ALA:HB1	2.39	0.53
51:BZ:63:ASP:C	51:BZ:65:GLN:N	2.62	0.53
1:CA:501:C:O2'	1:CA:502:G:H5'	2.09	0.53
1:CA:504:C:H1'	1:CA:510:A:C4	2.43	0.53
1:CA:923:A:H1'	1:CA:1398:A:C2	2.44	0.53
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.74	0.53
1:CA:1134:G:H2'	1:CA:1135:U:H5'	1.91	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1288:A:H2	1:CA:1352:C:O2	1.92	0.53
1:CA:1480:G:C6	1:CA:1481:U:C4	2.96	0.53
2:CB:25:ASN:ND2	2:CB:193:ASP:HB3	2.24	0.53
2:CB:219:VAL:HA	2:CB:222:ILE:CD1	2.39	0.53
4:CD:20:TYR:HD2	4:CD:26:CYS:HB3	1.74	0.53
4:CD:164:ALA:O	4:CD:168:ARG:HD2	2.08	0.53
8:CH:17:THR:O	8:CH:20:TYR:N	2.41	0.53
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	1.91	0.53
10:CJ:24:VAL:HG21	10:CJ:37:PRO:HG3	1.90	0.53
11:CK:21:ILE:N	11:CK:83:ILE:O	2.42	0.53
18:CR:35:ARG:O	18:CR:37:VAL:N	2.37	0.53
31:DA:272(C):G:C2	31:DA:366:C:O2	2.61	0.53
31:DA:413:C:H4'	31:DA:1880:C:O2'	2.09	0.53
31:DA:448:U:H1'	35:DF:84:VAL:CG1	2.39	0.53
31:DA:553:G:H2'	31:DA:554:U:O4'	2.09	0.53
31:DA:610:G:H2'	31:DA:611:C:H6	1.73	0.53
31:DA:637:A:OP1	41:DP:133:SER:CB	2.56	0.53
31:DA:780:G:C2	31:DA:782:A:C2	2.97	0.53
31:DA:814:C:H5	41:DP:27:HIS:NE2	2.06	0.53
31:DA:977:G:C6	31:DA:987:G:C6	2.96	0.53
31:DA:1048:A:OP2	31:DA:1110:G:N2	2.42	0.53
31:DA:1367:A:H5'	31:DA:1368:G:OP2	2.09	0.53
31:DA:1478:G:O2'	31:DA:1558:A:C2	2.62	0.53
31:DA:1795:C:H2'	31:DA:1796:U:C6	2.44	0.53
31:DA:1963:U:O2	31:DA:1963:U:H2'	2.09	0.53
31:DA:2078:C:H2'	31:DA:2079:U:C6	2.44	0.53
31:DA:2319:G:H4'	31:DA:2319:G:OP2	2.07	0.53
31:DA:2547:U:C2'	31:DA:2548:G:H5'	2.39	0.53
31:DA:2650:U:H2'	31:DA:2651:C:H6	1.73	0.53
31:DA:2785:C:H2'	31:DA:2786:U:C6	2.44	0.53
35:DF:118:ALA:C	35:DF:120:GLU:H	2.12	0.53
36:DG:130:ASN:OD1	36:DG:160:VAL:HA	2.08	0.53
37:DH:43:VAL:CG1	37:DH:53:GLU:H	2.22	0.53
37:DH:85:LYS:CE	37:DH:133:VAL:HB	2.37	0.53
38:DI:117:GLU:HG3	38:DI:118:LYS:H	1.74	0.53
39:DN:35:ARG:HB2	39:DN:42:TRP:HZ3	1.73	0.53
42:DQ:52:VAL:O	42:DQ:56:ARG:HB2	2.08	0.53
45:DT:32:TYR:HB3	45:DT:81:PRO:CB	2.37	0.53
47:DV:19:LYS:HB3	47:DV:97:LYS:HA	1.91	0.53
1:AA:22:G:H4'	1:AA:885:G:C8	2.43	0.53
1:AA:44:G:H2'	1:AA:45:U:O4'	2.09	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:386:C:O2'	1:AA:387:U:H5'	2.08	0.53
1:AA:509:A:O2'	1:AA:510:A:C8	2.61	0.53
1:AA:1054:C:O2'	1:AA:1055:A:H5''	2.09	0.53
1:AA:1118:C:O2	1:AA:1179:A:C6	2.62	0.53
1:AA:1494:G:H4'	31:BA:1913:A:H2'	1.90	0.53
15:AO:74:ASP:OD2	15:AO:77:ARG:N	2.40	0.53
23:B1:33:LYS:O	23:B1:34:THR:HG22	2.09	0.53
23:B1:71:TYR:HE1	38:BI:27:ARG:HD2	1.71	0.53
31:BA:11:G:O2'	31:BA:12:U:H5'	2.09	0.53
31:BA:34:C:C6	31:BA:34:C:C3'	2.91	0.53
31:BA:304:G:C5	31:BA:305:U:C5	2.97	0.53
31:BA:381:G:C6	31:BA:394:A:C6	2.97	0.53
31:BA:491:G:H2'	31:BA:492:A:H8	1.74	0.53
31:BA:528:A:C2	31:BA:2042:A:H2'	2.42	0.53
31:BA:720:C:H2'	31:BA:721:C:H6	1.73	0.53
31:BA:1176:G:C4'	31:BA:1177:A:OP1	2.57	0.53
31:BA:1225:G:OP1	47:BV:88:ARG:CB	2.57	0.53
31:BA:1411:C:C2'	31:BA:1412:A:C8	2.88	0.53
31:BA:1628:G:O2'	31:BA:1629:U:H5'	2.09	0.53
31:BA:1805:U:H2'	31:BA:1806:C:H6	1.73	0.53
31:BA:2317:C:C2'	31:BA:2317:C:O2	2.55	0.53
31:BA:2520:C:C2	31:BA:2521:C:C6	2.96	0.53
31:BA:2730:C:H4'	34:BE:168:MET:O	2.08	0.53
34:BE:35:GLN:HB3	34:BE:48:GLN:CB	2.38	0.53
34:BE:202:LYS:N	34:BE:202:LYS:HD3	2.24	0.53
35:BF:70:THR:HB	35:BF:72:ARG:H	1.73	0.53
35:BF:126:VAL:HG11	35:BF:142:TRP:CH2	2.44	0.53
35:BF:128:ALA:O	35:BF:129:PHE:CG	2.62	0.53
35:BF:132:VAL:HG22	35:BF:133:ASN:N	2.24	0.53
37:BH:136:ILE:O	37:BH:136:ILE:HG22	2.09	0.53
38:BI:101:LEU:CD2	38:BI:109:ILE:HG12	2.38	0.53
45:BT:55:ASN:O	45:BT:57:PHE:N	2.42	0.53
51:BZ:5:LEU:HD22	51:BZ:6:LYS:H	1.74	0.53
1:CA:428:G:H5'	1:CA:430:A:O4'	2.09	0.53
1:CA:591:U:H2'	1:CA:592:G:C8	2.44	0.53
1:CA:837:G:C2	1:CA:838:G:C8	2.97	0.53
1:CA:878:G:C5'	8:CH:89:PRO:HG2	2.38	0.53
1:CA:1315:U:H2'	1:CA:1316:G:O4'	2.09	0.53
5:CE:36:ASP:OD2	5:CE:38:GLN:HB2	2.09	0.53
8:CH:58:TYR:O	8:CH:59:LEU:HD23	2.08	0.53
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	1.91	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:47:LYS:CB	12:CL:48:PRO:HD3	2.28	0.53
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.23	0.53
22:D0:43:THR:CG2	31:DA:2336:A:H61	2.21	0.53
31:DA:108:U:O2'	31:DA:109:G:H5'	2.08	0.53
31:DA:232:G:H22	31:DA:420:C:H5''	1.73	0.53
31:DA:363(C):G:H2'	31:DA:363(D):G:O4'	2.09	0.53
31:DA:473:G:O2'	31:DA:474:G:H5'	2.08	0.53
31:DA:575:A:OP2	31:DA:2055:C:N4	2.28	0.53
31:DA:707:G:C6	31:DA:708:C:C4	2.97	0.53
31:DA:1022:G:N7	39:DN:66:LYS:HE2	2.24	0.53
31:DA:1459:G:C5	31:DA:1461:G:C8	2.97	0.53
31:DA:1684:C:C2	31:DA:1705:G:N2	2.77	0.53
31:DA:1859:A:H8	31:DA:1859:A:O5'	1.92	0.53
31:DA:2235:G:H2'	31:DA:2236:C:H6	1.73	0.53
31:DA:2415:G:O3'	41:DP:66:GLY:CA	2.56	0.53
31:DA:2520:C:N4	31:DA:2567:G:C5	2.77	0.53
31:DA:2811:G:OP1	34:DE:60:ASN:HB3	2.09	0.53
32:DB:15:A:C5'	32:DB:16:G:H8	2.14	0.53
32:DB:24:G:C2	32:DB:56:G:C2	2.97	0.53
36:DG:107:LEU:HD23	36:DG:111:LEU:HD12	1.90	0.53
37:DH:87:LEU:HD13	37:DH:148:ILE:HG21	1.89	0.53
38:DI:15:VAL:C	38:DI:17:GLN:H	2.13	0.53
38:DI:71:ILE:O	38:DI:75:LEU:HB2	2.09	0.53
40:DO:7:TYR:CE1	40:DO:20:MET:HB2	2.44	0.53
41:DP:41:ARG:HA	41:DP:41:ARG:HH21	1.70	0.53
42:DQ:9:TYR:CD2	42:DQ:9:TYR:C	2.82	0.53
42:DQ:57:HIS:CE1	42:DQ:116:GLU:HB3	2.44	0.53
45:DT:18:ASP:OD1	45:DT:19:LEU:HG	2.09	0.53
46:DU:92:ARG:HD2	47:DV:11:GLN:HG3	1.91	0.53
47:DV:79:VAL:CG2	47:DV:82:ARG:HD2	2.39	0.53
51:DZ:120:ILE:HG22	51:DZ:120:ILE:O	2.09	0.53
1:AA:182:U:C4	1:AA:183:G:H1'	2.44	0.53
1:AA:375:U:OP1	16:AP:69:THR:HG21	2.09	0.53
1:AA:402:G:C5	1:AA:403:C:C5	2.97	0.53
1:AA:779:C:H2'	1:AA:780:A:O4'	2.09	0.53
1:AA:1314:C:H41	19:AS:4:SER:N	2.07	0.53
2:AB:70:PHE:CD2	2:AB:163:PHE:HB3	2.44	0.53
4:AD:90:GLY:O	4:AD:94:LEU:HG	2.09	0.53
6:AF:50:TYR:CE2	6:AF:52:ILE:HD11	2.43	0.53
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.29	0.53
7:AG:69:VAL:HG11	7:AG:134:ALA:HB1	1.91	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:13:GLN:HB3	11:AK:75:TYR:O	2.09	0.53
23:B1:46:LEU:HD12	23:B1:46:LEU:O	2.08	0.53
23:B1:91:LYS:O	23:B1:92:LYS:HD2	2.09	0.53
24:B2:49:LYS:HZ2	24:B2:53:LEU:CD2	2.22	0.53
27:B5:2:ALA:HB3	31:BA:747:U:N1	2.24	0.53
31:BA:259:G:N2	31:BA:621:A:H8	2.07	0.53
31:BA:272(D):G:H1	31:BA:364:C:N4	2.06	0.53
31:BA:553:G:C6	31:BA:554:U:C4	2.96	0.53
31:BA:672:C:O2'	31:BA:673:C:H5'	2.09	0.53
31:BA:764:A:O4'	33:BD:213:ARG:HG3	2.09	0.53
31:BA:807:U:C2	31:BA:808:G:C8	2.97	0.53
31:BA:954:G:C5	31:BA:955:C:C5	2.97	0.53
31:BA:1705:G:C5	31:BA:1706:U:C4	2.96	0.53
31:BA:2053:G:H1	31:BA:2616:C:N4	2.04	0.53
31:BA:2071:A:H2'	31:BA:2071:A:N3	2.24	0.53
31:BA:2103:C:H2'	31:BA:2104:G:O4'	2.09	0.53
31:BA:2658:C:O2	31:BA:2658:C:C2'	2.53	0.53
31:BA:2666:C:H5'	31:BA:2667:C:OP2	2.09	0.53
32:BB:2:C:C5	32:BB:3:C:C5	2.97	0.53
32:BB:78:A:C2	32:BB:100:A:C4	2.96	0.53
33:BD:45:ASN:CG	33:BD:46:GLN:N	2.61	0.53
35:BF:46:ARG:O	35:BF:48:THR:HG23	2.08	0.53
42:BQ:34:LEU:HD11	42:BQ:129:THR:CB	2.38	0.53
44:BS:18:ILE:HG22	44:BS:19:LYS:N	2.24	0.53
45:BT:28:VAL:O	45:BT:29:ARG:HB2	2.09	0.53
46:BU:101:ARG:C	46:BU:102:GLU:HG2	2.30	0.53
47:BV:1:MET:H1	47:BV:44:LYS:HD2	1.73	0.53
47:BV:70:ILE:HB	47:BV:90:PRO:HB2	1.90	0.53
50:BY:64:GLU:O	50:BY:65:ALA:HB2	2.09	0.53
1:CA:262:A:C6	1:CA:263:A:N6	2.77	0.53
1:CA:407:G:C2	1:CA:436:C:N3	2.78	0.53
1:CA:579:G:C5	1:CA:580:U:C5	2.97	0.53
1:CA:615:C:H2'	1:CA:616:G:O4'	2.09	0.53
1:CA:616:G:C2	1:CA:617:G:C8	2.96	0.53
1:CA:651:C:O2'	1:CA:652:U:H5'	2.08	0.53
1:CA:676:A:O2'	1:CA:677:U:H5'	2.08	0.53
1:CA:687:A:H4'	1:CA:688:G:O5'	2.07	0.53
1:CA:756:C:H2'	1:CA:757:U:O4'	2.08	0.53
2:CB:166:ASP:HB3	2:CB:169:LYS:CB	2.38	0.53
2:CB:189:ASP:HB3	2:CB:203:GLY:O	2.09	0.53
4:CD:88:VAL:HG13	5:CE:97:GLY:HA3	1.90	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:35:GLY:HA3	5:CE:112:LEU:HB3	1.91	0.53
5:CE:57:LYS:O	5:CE:61:TYR:CD2	2.61	0.53
8:CH:8:ASP:O	8:CH:11:THR:N	2.42	0.53
19:CS:5:LEU:HG	19:CS:10:PHE:HD1	1.74	0.53
23:D1:20:ARG:HG3	31:DA:381:G:OP1	2.09	0.53
23:D1:73:LEU:HD13	23:D1:90:ILE:O	2.10	0.53
27:D5:6:VAL:HG13	27:D5:7:PRO:HD2	1.89	0.53
31:DA:151:C:C2'	31:DA:152:G:H5'	2.39	0.53
31:DA:251:A:C5'	41:DP:51:PHE:HZ	2.21	0.53
31:DA:271(K):U:O2'	31:DA:271(L):U:OP1	2.26	0.53
31:DA:349:G:C2'	31:DA:350:U:H5'	2.39	0.53
31:DA:518:G:H2'	31:DA:519:U:H6	1.72	0.53
31:DA:1218:C:C2'	31:DA:1219:G:H5'	2.38	0.53
31:DA:1318:C:H3'	31:DA:1319:G:H5''	1.90	0.53
31:DA:1636:C:O2'	31:DA:1760:A:H1'	2.08	0.53
31:DA:1689:A:N6	31:DA:1698:A:H2	2.03	0.53
31:DA:1718:G:O2'	31:DA:1719:G:H5'	2.08	0.53
31:DA:2106:G:H1'	31:DA:2184:G:N2	2.24	0.53
31:DA:2689:U:P	31:DA:2719:G:H22	2.32	0.53
33:DD:28:GLU:HB2	33:DD:29:PRO:HD3	1.90	0.53
34:DE:75:VAL:O	34:DE:75:VAL:HG23	2.06	0.53
35:DF:28:ILE:HD12	35:DF:28:ILE:N	2.23	0.53
36:DG:11:TYR:CD2	36:DG:12:TYR:CE1	2.97	0.53
42:DQ:9:TYR:C	42:DQ:10:ARG:HG3	2.29	0.53
43:DR:76:VAL:HG13	43:DR:80:PHE:HD2	1.73	0.53
45:DT:109:GLU:CA	45:DT:112:ARG:HG3	2.38	0.53
49:DX:57:LEU:HD13	49:DX:77:LYS:HB2	1.90	0.53
1:AA:149:A:O2'	1:AA:150:C:P	2.67	0.52
1:AA:328:C:O2	1:AA:328:C:C2'	2.57	0.52
1:AA:428:G:C4'	1:AA:429:U:O5'	2.57	0.52
1:AA:522:C:H5''	12:AL:120:TYR:OH	2.09	0.52
1:AA:756:C:H2'	1:AA:757:U:O4'	2.09	0.52
1:AA:983:A:H2	1:AA:984:C:C6	2.27	0.52
1:AA:1088:G:N2	1:AA:1097:C:N3	2.48	0.52
1:AA:1504:G:C4'	1:AA:1505:G:OP2	2.57	0.52
3:AC:124:ILE:HG13	3:AC:130:VAL:HG22	1.89	0.52
4:AD:33:MET:HE1	4:AD:37:PRO:HA	1.89	0.52
8:AH:8:ASP:O	8:AH:11:THR:N	2.42	0.52
11:AK:44:SER:OG	11:AK:47:VAL:HG23	2.09	0.52
17:AQ:60:ILE:HG23	17:AQ:62:SER:OG	2.09	0.52
22:B0:48:GLY:HA3	22:B0:80:HIS:ND1	2.24	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:53:VAL:HG13	23:B1:54:ALA:N	2.22	0.52
23:B1:67:ILE:O	23:B1:70:VAL:HB	2.08	0.52
27:B5:46:CYS:SG	27:B5:47:PRO:N	2.83	0.52
28:B6:19:ARG:O	28:B6:20:ASN:O	2.26	0.52
28:B6:27:LYS:CD	31:BA:2285:C:OP2	2.57	0.52
30:B8:32:LEU:HG	30:B8:35:GLN:H	1.75	0.52
31:BA:92:A:H2'	31:BA:93:G:C8	2.44	0.52
31:BA:116:C:H2'	31:BA:117:G:O4'	2.09	0.52
31:BA:518:G:H4'	48:BW:18:ARG:CZ	2.39	0.52
31:BA:607:U:OP1	35:BF:102:PRO:HA	2.09	0.52
31:BA:727:A:H2	33:BD:9:TYR:CD2	2.26	0.52
31:BA:1006:C:C2	31:BA:1138:G:N2	2.77	0.52
31:BA:1341:U:H3'	31:BA:1397:U:O2	2.08	0.52
31:BA:1345:C:O2'	31:BA:1346:G:H5'	2.09	0.52
31:BA:1664:A:N6	31:BA:1665:A:N6	2.57	0.52
31:BA:1930:G:N2	31:BA:1968:G:H2'	2.24	0.52
31:BA:2199:A:C5'	31:BA:2200:C:OP2	2.56	0.52
31:BA:2277:G:H2'	31:BA:2278:A:H5'	1.91	0.52
31:BA:2461:C:H2'	31:BA:2462:U:C6	2.44	0.52
31:BA:2462:U:H2'	31:BA:2463:C:O4'	2.09	0.52
31:BA:2892:A:N7	31:BA:2893:G:C8	2.77	0.52
32:BB:44:G:C2'	32:BB:45:A:OP2	2.56	0.52
35:BF:16:GLY:O	35:BF:17:ARG:HG3	2.09	0.52
35:BF:31:HIS:O	35:BF:34:TRP:HB3	2.09	0.52
35:BF:126:VAL:HG13	35:BF:193:VAL:HG13	1.91	0.52
37:BH:68:THR:O	37:BH:69:ARG:C	2.47	0.52
38:BI:71:ILE:O	38:BI:75:LEU:HB2	2.10	0.52
38:BI:84:GLY:O	38:BI:85:GLU:HG2	2.09	0.52
39:BN:134:ARG:O	39:BN:134:ARG:HG3	2.10	0.52
44:BS:38:GLN:HG2	44:BS:47:THR:CG2	2.38	0.52
49:BX:60:ARG:CB	49:BX:72:LYS:H	2.22	0.52
51:BZ:45:ASP:O	51:BZ:46:LYS:C	2.47	0.52
51:BZ:71:VAL:HG22	51:BZ:88:PHE:CE2	2.44	0.52
1:CA:109:A:H2'	1:CA:326:G:H21	1.73	0.52
1:CA:159:G:H21	1:CA:161:A:H3'	1.74	0.52
1:CA:184:G:C4'	1:CA:224:C:H4'	2.39	0.52
1:CA:450:G:H5''	16:CP:41:PRO:O	2.09	0.52
1:CA:658:G:C4	1:CA:659:U:C5	2.97	0.52
1:CA:1006:C:H42	1:CA:1024:G:H21	1.57	0.52
2:CB:22:LYS:NZ	2:CB:40:HIS:HE1	2.07	0.52
2:CB:162:ILE:HD12	2:CB:184:VAL:HA	1.91	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:150:GLU:CD	4:CD:150:GLU:H	2.13	0.52
5:CE:29:GLY:HA2	5:CE:46:GLY:O	2.09	0.52
6:CF:100:ASN:H	18:CR:23:LYS:NZ	2.07	0.52
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.23	0.52
22:D0:37:LEU:C	22:D0:38:VAL:HG23	2.29	0.52
30:D8:8:LYS:CE	31:DA:243:U:OP2	2.57	0.52
31:DA:66:C:C2	31:DA:89:G:C2	2.97	0.52
31:DA:478:A:C6	31:DA:480:A:C6	2.97	0.52
31:DA:819:A:OP2	31:DA:1187:G:N2	2.34	0.52
31:DA:1006:C:N3	31:DA:1138:G:C2	2.78	0.52
31:DA:1122:G:C2	31:DA:1123:C:C6	2.97	0.52
31:DA:1213:A:H1'	31:DA:1238:G:N3	2.23	0.52
31:DA:1278:A:P	43:DR:36:THR:HG22	2.47	0.52
31:DA:1504:C:H6	31:DA:1504:C:O5'	1.92	0.52
31:DA:1664:A:N6	31:DA:1665:A:N6	2.57	0.52
31:DA:1675:C:H2'	31:DA:1676:A:O4'	2.10	0.52
31:DA:1783:A:C2	31:DA:2587:A:C4	2.97	0.52
31:DA:1905:C:H2'	31:DA:1930:G:H5'	1.91	0.52
31:DA:2207:G:O2'	31:DA:2208:A:H5''	2.09	0.52
31:DA:2308:G:H3'	31:DA:2310:A:OP2	2.08	0.52
31:DA:2687:U:C4	31:DA:2688:U:C5	2.97	0.52
38:DI:31:LEU:CD2	38:DI:38:LEU:HG	2.39	0.52
39:DN:15:LEU:HD13	39:DN:16:ILE:N	2.24	0.52
39:DN:128:HIS:CD2	39:DN:131:GLN:HB2	2.44	0.52
40:DO:65:THR:HA	40:DO:82:ASN:CB	2.34	0.52
40:DO:86:ILE:HD12	40:DO:86:ILE:H	1.75	0.52
45:DT:29:ARG:HG2	45:DT:85:LYS:CA	2.39	0.52
47:DV:21:ARG:HB3	47:DV:93:GLU:HG2	1.92	0.52
47:DV:62:LEU:HD22	47:DV:98:GLU:CG	2.39	0.52
51:DZ:141:VAL:HA	51:DZ:144:LEU:HD23	1.89	0.52
1:AA:376:G:O2'	1:AA:377:G:H5'	2.10	0.52
1:AA:659:U:N3	1:AA:660:G:C8	2.77	0.52
1:AA:832:C:N4	1:AA:855:G:C6	2.77	0.52
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.22	0.52
1:AA:1060:C:O2	1:AA:1198:G:C2	2.62	0.52
11:AK:92:GLU:C	11:AK:94:ALA:H	2.11	0.52
14:AN:24:CYS:SG	14:AN:40:CYS:N	2.83	0.52
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.23	0.52
16:AP:10:GLY:O	16:AP:11:SER:O	2.26	0.52
18:AR:25:THR:HG21	18:AR:42:ARG:HD3	1.91	0.52
28:B6:32:ASN:O	28:B6:33:LYS:CB	2.58	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:58:ILE:HG22	41:BP:49:ARG:CD	2.39	0.52
31:BA:409:C:N4	31:BA:418:G:H1	2.07	0.52
31:BA:413:C:H4'	31:BA:1880:C:O2'	2.09	0.52
31:BA:868:U:C4	31:BA:869:G:N7	2.78	0.52
31:BA:1006:C:H1'	39:BN:106:MET:HB3	1.90	0.52
31:BA:1126:A:H4'	31:BA:1127:A:O5'	2.09	0.52
31:BA:1263:U:H2'	31:BA:1264:G:C8	2.44	0.52
31:BA:1505:C:C5	31:BA:1506:C:C6	2.97	0.52
31:BA:1603:A:H2'	31:BA:1604:C:O4'	2.10	0.52
31:BA:1692:U:O2'	31:BA:1693:U:H2'	2.10	0.52
31:BA:1914:C:C4	31:BA:1915:U:C4	2.97	0.52
31:BA:2106:G:H1'	31:BA:2184:G:N2	2.24	0.52
31:BA:2196:C:C2'	31:BA:2197:U:H5'	2.39	0.52
31:BA:2223:G:C2'	31:BA:2224:G:H5'	2.40	0.52
34:BE:6:GLY:O	34:BE:195:LEU:HD12	2.08	0.52
37:BH:24:VAL:HB	37:BH:35:VAL:HB	1.91	0.52
41:BP:73:GLY:O	41:BP:74:GLU:C	2.46	0.52
41:BP:106:LEU:CD1	41:BP:112:LEU:HD23	2.37	0.52
41:BP:118:GLY:O	41:BP:119:GLU:CG	2.50	0.52
42:BQ:7:MET:O	42:BQ:10:ARG:NH2	2.39	0.52
42:BQ:52:VAL:HA	42:BQ:55:VAL:CG1	2.40	0.52
42:BQ:141:GLN:N	51:BZ:53:ILE:O	2.42	0.52
46:BU:43:GLY:HA2	47:BV:76:LYS:HE3	1.91	0.52
47:BV:29:PRO:O	47:BV:64:HIS:NE2	2.42	0.52
49:BX:83:VAL:O	49:BX:84:ALA:CB	2.57	0.52
50:BY:11:ASP:H	50:BY:27:VAL:HA	1.74	0.52
50:BY:39:VAL:CG1	50:BY:40:GLU:H	2.15	0.52
50:BY:95:LYS:CD	50:BY:100:ALA:HB1	2.39	0.52
1:CA:137:C:O2'	1:CA:138:G:H5'	2.10	0.52
1:CA:270:A:C6	1:CA:271:C:C4	2.96	0.52
1:CA:276:G:C5'	17:CQ:15:MET:HE1	2.39	0.52
1:CA:323:U:OP1	20:CT:26:ASN:ND2	2.42	0.52
1:CA:442:C:H42	1:CA:492:G:H1	1.57	0.52
1:CA:1097:C:C2	1:CA:1098:C:C6	2.98	0.52
5:CE:71:LEU:O	5:CE:72:GLN:HG3	2.10	0.52
6:CF:95:GLU:O	6:CF:96:PRO:O	2.27	0.52
6:CF:100:ASN:ND2	18:CR:23:LYS:HE3	2.24	0.52
11:CK:57:THR:O	11:CK:60:ALA:HB3	2.10	0.52
14:CN:15:LYS:O	14:CN:16:PHE:O	2.27	0.52
15:CO:18:PHE:CE1	15:CO:21:ASP:HB2	2.44	0.52
18:CR:44:LEU:HA	18:CR:49:LYS:O	2.09	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:65:SER:OG	23:D1:66:HIS:HD2	1.92	0.52
28:D6:14:THR:O	28:D6:49:HIS:HA	2.09	0.52
31:DA:64:A:O3'	49:DX:68:ARG:O	2.27	0.52
31:DA:114:U:H3'	31:DA:115:C:H6	1.74	0.52
31:DA:128:C:C6	31:DA:128:C:H3'	2.44	0.52
31:DA:318:C:H2'	31:DA:319:C:H6	1.74	0.52
31:DA:320:A:H5''	31:DA:321:G:OP1	2.09	0.52
31:DA:501:A:C6	31:DA:502:A:C5	2.98	0.52
31:DA:511:U:H5''	31:DA:512:G:OP2	2.09	0.52
31:DA:598:G:C5'	41:DP:15:ARG:HD2	2.38	0.52
31:DA:797:C:H2'	31:DA:798:G:C8	2.44	0.52
31:DA:843:G:C2	31:DA:936:C:C2	2.97	0.52
31:DA:994:C:OP1	46:DU:53:ARG:NH2	2.43	0.52
31:DA:1461:G:N3	31:DA:1462:C:C6	2.77	0.52
31:DA:1528:A:O2'	31:DA:1528(A):A:C8	2.60	0.52
31:DA:1688:U:H5'	31:DA:1689:A:OP1	2.09	0.52
31:DA:2101:G:C6	31:DA:2102:U:C5	2.97	0.52
31:DA:2747:G:C2	31:DA:2756:U:C5	2.98	0.52
31:DA:2849:U:O4	45:DT:23:ARG:NH2	2.42	0.52
33:DD:25:THR:CG2	33:DD:25:THR:O	2.57	0.52
33:DD:48:ARG:HH11	33:DD:48:ARG:CG	2.23	0.52
33:DD:148:GLU:HB2	33:DD:151:LYS:HD2	1.92	0.52
34:DE:176:ILE:HD12	34:DE:176:ILE:N	2.24	0.52
35:DF:117:ARG:CZ	41:DP:5:ASP:N	2.73	0.52
37:DH:67:LEU:O	37:DH:71:LEU:HB2	2.10	0.52
38:DI:47:LEU:O	38:DI:51:ILE:HG12	2.09	0.52
39:DN:17:ASP:OD2	39:DN:19:GLU:HB3	2.09	0.52
39:DN:35:ARG:NH2	39:DN:42:TRP:HH2	2.07	0.52
39:DN:56:ASN:C	39:DN:57:ALA:O	2.46	0.52
39:DN:87:LEU:HD21	39:DN:98:VAL:HG11	1.90	0.52
39:DN:127:ASP:HB3	39:DN:129:PRO:HD3	1.90	0.52
44:DS:67:ARG:C	44:DS:69:VAL:N	2.61	0.52
48:DW:24:ILE:HD12	48:DW:24:ILE:O	2.09	0.52
1:AA:192:U:O2'	1:AA:193:C:H5'	2.10	0.52
1:AA:294:U:H2'	1:AA:295:C:C6	2.44	0.52
1:AA:602:A:N1	1:AA:637:G:C6	2.78	0.52
1:AA:658:G:C5	1:AA:659:U:C5	2.98	0.52
1:AA:668:G:H21	15:AO:46:HIS:CE1	2.26	0.52
1:AA:1288:A:H2	1:AA:1352:C:O2	1.91	0.52
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.90	0.52
3:AC:69:HIS:CD2	3:AC:69:HIS:N	2.78	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:127:THR:HA	4:AD:132:ARG:HA	1.90	0.52
6:AF:45:LEU:CD1	6:AF:57:GLN:HB3	2.38	0.52
6:AF:93:SER:C	6:AF:94:GLN:HG3	2.29	0.52
16:AP:7:ALA:O	16:AP:9:PHE:CD2	2.62	0.52
19:AS:62:ILE:O	19:AS:62:ILE:HG23	2.09	0.52
24:B2:49:LYS:NZ	24:B2:53:LEU:CD2	2.72	0.52
25:B3:11:SER:HG	25:B3:13:ILE:HG12	1.74	0.52
30:B8:39:LYS:O	30:B8:39:LYS:CE	2.57	0.52
31:BA:30:G:H2'	31:BA:31:C:C6	2.44	0.52
31:BA:231:C:O2'	31:BA:232:G:H5'	2.08	0.52
31:BA:292:C:C2	31:BA:349:G:C2	2.97	0.52
31:BA:380:U:C2	31:BA:381:G:C8	2.97	0.52
31:BA:1044:G:H1'	31:BA:1111:A:N1	2.23	0.52
31:BA:1718:G:O2'	31:BA:1719:G:H5'	2.10	0.52
31:BA:1799:G:N7	33:BD:179:SER:OG	2.42	0.52
31:BA:2243:U:H2'	31:BA:2244:U:H6	1.71	0.52
33:BD:85:ASP:HB2	33:BD:92:ILE:CG1	2.36	0.52
34:BE:24:THR:HG23	34:BE:184:VAL:HG22	1.90	0.52
35:BF:67:GLN:O	35:BF:68:LYS:HB2	2.09	0.52
37:BH:70:THR:O	37:BH:73:ALA:N	2.41	0.52
38:BI:9:LEU:H	38:BI:13:GLY:HA2	1.74	0.52
38:BI:136:VAL:HG22	38:BI:136:VAL:O	2.08	0.52
38:BI:136:VAL:O	38:BI:138:ILE:HG13	2.09	0.52
43:BR:76:VAL:HG13	43:BR:80:PHE:HD2	1.74	0.52
49:BX:41:ASN:HA	49:BX:44:GLU:CG	2.34	0.52
49:BX:73:ARG:O	49:BX:75:ASP:N	2.42	0.52
49:BX:84:ALA:C	49:BX:86:GLY:H	2.13	0.52
1:CA:192:U:O2'	1:CA:193:C:H5'	2.09	0.52
1:CA:491:G:C4	1:CA:492:G:C8	2.97	0.52
1:CA:1159:U:C5	1:CA:1182:G:C4	2.97	0.52
1:CA:1399:C:H4'	1:CA:1400:C:C5'	2.35	0.52
1:CA:1414:U:H3	1:CA:1486:G:H1	1.57	0.52
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.09	0.52
3:CC:170:GLN:HG2	3:CC:171:GLY:H	1.75	0.52
4:CD:128:VAL:HA	4:CD:145:GLU:O	2.10	0.52
5:CE:102:ALA:H	5:CE:107:ARG:HH12	1.57	0.52
6:CF:22:GLU:OE1	6:CF:84:ASN:HB2	2.10	0.52
6:CF:46:ARG:O	6:CF:47:ARG:C	2.47	0.52
24:D2:49:LYS:HA	24:D2:53:LEU:HB3	1.92	0.52
28:D6:32:ASN:O	28:D6:33:LYS:HB2	2.10	0.52
31:DA:14:A:N1	31:DA:526:A:C2	2.77	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1019:U:O2'	31:DA:1021:A:C2	2.53	0.52
31:DA:1152:C:H5''	46:DU:80:ILE:HG22	1.91	0.52
31:DA:1411:C:H2'	31:DA:1412:A:N7	2.25	0.52
31:DA:1487:G:C2'	31:DA:1488:G:O5'	2.58	0.52
31:DA:1505:C:C6	31:DA:1505:C:C3'	2.93	0.52
31:DA:1528:A:C2	31:DA:1544:A:N6	2.77	0.52
31:DA:1686:C:O2'	31:DA:1687:G:H5'	2.09	0.52
31:DA:2048:G:C6	31:DA:2049:G:C5	2.96	0.52
31:DA:2415:G:H2'	31:DA:2416:C:H6	1.74	0.52
31:DA:2712:U:O2'	31:DA:2712(A):A:P	2.67	0.52
31:DA:2835:A:C6	31:DA:2879:C:C6	2.97	0.52
32:DB:38:C:C4'	44:DS:95:HIS:CE1	2.92	0.52
32:DB:76:G:O3'	51:DZ:19:ARG:NH2	2.41	0.52
33:DD:44:ASN:OD1	33:DD:44:ASN:N	2.41	0.52
35:DF:16:GLY:O	35:DF:17:ARG:HG3	2.10	0.52
36:DG:15:VAL:HG12	36:DG:19:LEU:CG	2.39	0.52
38:DI:123:LEU:CD2	38:DI:142:VAL:HB	2.37	0.52
39:DN:47:ALA:HB1	39:DN:112:LEU:HD11	1.91	0.52
42:DQ:104:PHE:HE1	42:DQ:125:LEU:HD11	1.74	0.52
50:DY:32:PRO:O	50:DY:35:TYR:N	2.43	0.52
1:AA:339:C:H2'	1:AA:340:U:C6	2.44	0.52
1:AA:359:U:O2'	1:AA:360:A:H5'	2.09	0.52
1:AA:509:A:H3'	1:AA:509:A:P	2.50	0.52
1:AA:559:A:C5'	1:AA:560:U:H3'	2.34	0.52
1:AA:612:C:O2	1:AA:629:G:N2	2.42	0.52
1:AA:659:U:C2	1:AA:660:G:C8	2.98	0.52
1:AA:669:U:O2'	1:AA:670:G:H5'	2.09	0.52
1:AA:719:C:C5	1:AA:720:C:C4	2.98	0.52
1:AA:941:G:N2	1:AA:942:G:H1'	2.24	0.52
1:AA:1480:G:H2'	1:AA:1481:U:O4'	2.09	0.52
2:AB:168:THR:HA	2:AB:171:ALA:HB2	1.91	0.52
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.74	0.52
30:B8:27:THR:HA	41:BP:62:LEU:CD1	2.40	0.52
31:BA:322:A:H4'	31:BA:323:G:OP2	2.08	0.52
31:BA:350:U:H2'	31:BA:351:G:O4'	2.09	0.52
31:BA:482:A:H5''	31:BA:483:A:OP1	2.09	0.52
31:BA:718:A:H3'	31:BA:719:C:H6	1.75	0.52
31:BA:870:A:H5'	42:BQ:7:MET:HB2	1.88	0.52
31:BA:1287:A:H2'	31:BA:1287:A:N3	2.24	0.52
31:BA:1741:A:N3	31:BA:1742:G:N2	2.58	0.52
31:BA:1830:C:H4'	33:BD:15:PHE:CZ	2.44	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2075:U:C4	31:BA:2238:G:C6	2.97	0.52
33:BD:126:GLN:C	33:BD:193:VAL:HG11	2.30	0.52
35:BF:172:TRP:CE3	35:BF:173:VAL:HG23	2.45	0.52
36:BG:15:VAL:HG12	36:BG:19:LEU:CG	2.39	0.52
49:BX:88:LYS:O	49:BX:89:ILE:HB	2.08	0.52
1:CA:32:A:H3'	1:CA:33:A:H8	1.73	0.52
1:CA:276:G:C2'	1:CA:277:C:H5'	2.39	0.52
1:CA:378:G:N2	1:CA:386:C:C2	2.77	0.52
1:CA:626:U:C2	1:CA:627:G:N7	2.77	0.52
1:CA:1095:U:P	1:CA:1108:G:H1	2.31	0.52
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.43	0.52
1:CA:1530:G:H4'	1:CA:1530:G:OP1	2.08	0.52
11:CK:20:TYR:HA	11:CK:83:ILE:O	2.10	0.52
12:CL:124:LYS:HD2	12:CL:125:PRO:HD2	1.90	0.52
19:CS:6:LYS:HG2	19:CS:7:LYS:CD	2.38	0.52
22:D0:1:MET:HA	31:DA:2451:A:H4'	1.91	0.52
23:D1:54:ALA:O	23:D1:56:GLN:N	2.42	0.52
27:D5:19:ARG:HA	31:DA:2046:G:O5'	2.10	0.52
28:D6:13:CYS:O	28:D6:21:TYR:HA	2.09	0.52
31:DA:744:G:OP1	34:DE:132:HIS:HB3	2.10	0.52
31:DA:814:C:H4'	31:DA:1224:C:O2	2.09	0.52
31:DA:945:A:C6	31:DA:2448:A:C4	2.98	0.52
31:DA:994:C:H1'	47:DV:10:LYS:NZ	2.24	0.52
31:DA:1409:C:C2'	31:DA:1410:G:H5'	2.40	0.52
31:DA:1629:U:H2'	31:DA:1630:G:C8	2.44	0.52
31:DA:2001:A:H2'	31:DA:2002:G:C8	2.45	0.52
31:DA:2071:A:H2'	31:DA:2071:A:N3	2.23	0.52
31:DA:2283:C:H2'	31:DA:2284:C:C5'	2.39	0.52
31:DA:2462:U:H2'	31:DA:2463:C:O4'	2.10	0.52
31:DA:2886:G:C5	31:DA:2887:U:C5	2.98	0.52
34:DE:70:ALA:O	34:DE:73:GLU:HA	2.10	0.52
38:DI:120:ILE:HG23	38:DI:126:TYR:CE1	2.45	0.52
39:DN:120:LEU:HD11	39:DN:122:VAL:CG2	2.26	0.52
40:DO:111:PHE:O	40:DO:112:MET:C	2.48	0.52
45:DT:29:ARG:CD	45:DT:86:ILE:HG22	2.39	0.52
46:DU:49:HIS:O	46:DU:53:ARG:N	2.42	0.52
48:DW:12:ILE:HD13	48:DW:17:VAL:HG22	1.92	0.52
48:DW:44:ALA:O	48:DW:45:TYR:C	2.47	0.52
50:DY:30:VAL:CG1	50:DY:31:LEU:H	2.16	0.52
1:AA:10:A:H2'	1:AA:11:G:C8	2.44	0.52
1:AA:543:C:H2'	1:AA:544:G:O4'	2.09	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1112:C:N3	3:AC:178:LEU:CD2	2.71	0.52
1:AA:1162:C:H2'	1:AA:1163:C:H6	1.73	0.52
1:AA:1392:G:N2	1:AA:1502:A:H8	2.05	0.52
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.10	0.52
2:AB:73:THR:HG22	2:AB:95:GLN:O	2.09	0.52
4:AD:10:ARG:HA	4:AD:13:ARG:HG3	1.90	0.52
4:AD:164:ALA:O	4:AD:168:ARG:HD2	2.10	0.52
4:AD:190:ASP:O	4:AD:191:ARG:C	2.47	0.52
4:AD:194:LEU:HB3	4:AD:196:LEU:CD1	2.40	0.52
6:AF:19:LEU:O	6:AF:23:LYS:HG3	2.09	0.52
7:AG:65:ALA:HB1	7:AG:127:ALA:HB3	1.92	0.52
18:AR:31:LEU:N	18:AR:31:LEU:HD23	2.23	0.52
20:AT:56:MET:HG2	20:AT:84:LEU:HD13	1.90	0.52
22:B0:40:GLN:HE21	22:B0:43:THR:CA	2.22	0.52
23:B1:41:ARG:HH11	23:B1:41:ARG:CG	2.06	0.52
23:B1:46:LEU:H	23:B1:46:LEU:CD1	2.19	0.52
31:BA:51:G:N3	31:BA:119:A:C2	2.77	0.52
31:BA:193:U:C2'	31:BA:194:G:H5'	2.39	0.52
31:BA:874:G:N2	31:BA:875:G:H1'	2.25	0.52
31:BA:1008:C:N4	31:BA:1136:G:C6	2.77	0.52
31:BA:1889:A:H1'	31:BA:2087:G:O4'	2.08	0.52
31:BA:2544:G:H2'	31:BA:2545:G:O4'	2.10	0.52
31:BA:2595:G:N2	31:BA:2599:G:C4	2.78	0.52
31:BA:2743:C:H2'	31:BA:2744:G:O4'	2.10	0.52
31:BA:2753:A:C2	31:BA:2754:U:C2	2.98	0.52
31:BA:2884:U:H2'	31:BA:2885:C:O4'	2.10	0.52
33:BD:266:SER:O	33:BD:267:SER:OG	2.16	0.52
40:BO:49:ARG:HD3	40:BO:49:ARG:N	2.25	0.52
41:BP:7:ARG:HB3	41:BP:8:PRO:CD	2.38	0.52
41:BP:81:GLN:HG2	41:BP:106:LEU:HA	1.92	0.52
51:BZ:53:ILE:HG13	51:BZ:53:ILE:O	2.09	0.52
1:CA:51:A:C6	1:CA:353:A:C2	2.97	0.52
1:CA:193:C:H4'	20:CT:61:SER:HB2	1.92	0.52
1:CA:394:G:C4	1:CA:395:C:C5	2.98	0.52
1:CA:779:C:H2'	1:CA:780:A:O4'	2.10	0.52
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.22	0.52
1:CA:1112:C:N3	3:CC:178:LEU:CD2	2.70	0.52
1:CA:1298:C:C6	7:CG:114:ARG:NH1	2.77	0.52
2:CB:174:VAL:O	2:CB:178:ARG:HB2	2.10	0.52
3:CC:69:HIS:N	3:CC:69:HIS:CD2	2.78	0.52
6:CF:45:LEU:HD11	6:CF:57:GLN:OE1	2.10	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:69:VAL:HG12	7:CG:69:VAL:O	2.10	0.52
23:D1:48:LYS:HA	23:D1:48:LYS:CE	2.34	0.52
31:DA:790:C:O2'	31:DA:791:C:H5'	2.09	0.52
31:DA:909:A:H2'	31:DA:912:C:C5	2.35	0.52
31:DA:1200:C:O2'	31:DA:1201:C:H5'	2.09	0.52
31:DA:1505:C:C5	31:DA:1506:C:C6	2.97	0.52
31:DA:1509(B):A:C4	31:DA:1510:G:C8	2.98	0.52
31:DA:2081:C:H2'	31:DA:2082:A:C8	2.44	0.52
31:DA:2262:U:N3	31:DA:2279:G:C2	2.77	0.52
31:DA:2306:C:OP2	31:DA:2307:G:C8	2.62	0.52
31:DA:2395:C:H2'	31:DA:2396:G:O4'	2.09	0.52
36:DG:31:VAL:HG12	36:DG:33:ARG:N	2.25	0.52
37:DH:93:GLY:O	37:DH:95:ARG:HG2	2.09	0.52
39:DN:91:LEU:HD23	39:DN:98:VAL:HG21	1.91	0.52
42:DQ:75:THR:HG21	42:DQ:85:LYS:HE3	1.92	0.52
45:DT:30:VAL:O	45:DT:82:LEU:HA	2.10	0.52
1:AA:437:U:C5	1:AA:438:G:N7	2.78	0.52
1:AA:616:G:C2	1:AA:617:G:C8	2.98	0.52
1:AA:818:G:C3'	1:AA:819:A:H5'	2.39	0.52
1:AA:862:C:O2'	1:AA:863:U:H5'	2.10	0.52
1:AA:1030(C):G:H2'	1:AA:1030(D):A:C8	2.45	0.52
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.45	0.52
1:AA:1215:G:C5	1:AA:1216:G:N7	2.78	0.52
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.44	0.52
1:AA:1274:G:N2	1:AA:1275:A:H62	2.08	0.52
5:AE:7:GLU:HB2	5:AE:35:GLY:O	2.10	0.52
9:AI:114:TYR:CE1	10:AJ:59:SER:HA	2.45	0.52
10:AJ:24:VAL:O	10:AJ:28:ARG:HG3	2.09	0.52
10:AJ:82:ILE:HD12	10:AJ:86:MET:HE2	1.92	0.52
13:AM:56:LEU:O	13:AM:60:VAL:HG23	2.09	0.52
13:AM:68:GLY:HA2	13:AM:71:ARG:HB3	1.92	0.52
25:B3:52:HIS:CD2	25:B3:53:LEU:HG	2.44	0.52
31:BA:58:G:OP1	49:BX:72:LYS:HA	2.10	0.52
31:BA:414:C:H2'	31:BA:415:A:C8	2.44	0.52
31:BA:473:G:O2'	31:BA:474:G:H5'	2.09	0.52
31:BA:1245:G:C5'	41:BP:16:ARG:HH21	2.23	0.52
31:BA:1367:A:H5'	31:BA:1368:G:OP2	2.10	0.52
31:BA:1469:A:H2'	31:BA:1470:G:H8	1.73	0.52
31:BA:2319:G:OP2	31:BA:2319:G:H4'	2.09	0.52
31:BA:2364:C:C2'	31:BA:2365:G:H5'	2.39	0.52
31:BA:2600:A:H2'	31:BA:2601:C:C6	2.45	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BA:3362:TEL:C10	55:BA:3362:TEL:H123	2.39	0.52
32:BB:21:G:O2'	32:BB:22:U:OP2	2.28	0.52
34:BE:24:THR:HG21	34:BE:188:VAL:HG12	1.92	0.52
35:BF:28:ILE:HG12	35:BF:119:ARG:HH21	1.75	0.52
40:BO:78:ARG:HE	45:BT:103:ARG:HH12	1.56	0.52
43:BR:54:LEU:HB3	43:BR:66:VAL:CG2	2.40	0.52
44:BS:49:VAL:HG11	44:BS:73:LEU:HD13	1.90	0.52
45:BT:29:ARG:CD	45:BT:86:ILE:HG22	2.39	0.52
45:BT:33:LYS:N	45:BT:33:LYS:NZ	2.57	0.52
49:BX:60:ARG:HE	49:BX:74:PRO:CD	2.22	0.52
1:CA:271:C:H2'	1:CA:272:C:H6	1.75	0.52
1:CA:402:G:C5	1:CA:403:C:C5	2.98	0.52
1:CA:408:A:H5'	4:CD:116:GLN:HB2	1.91	0.52
1:CA:512:U:H2'	1:CA:513:C:H6	1.75	0.52
1:CA:710:G:H5''	6:CF:54:LYS:HZ1	1.74	0.52
23:D1:18:ILE:HD13	31:DA:188:G:OP1	2.10	0.52
27:D5:46:CYS:O	27:D5:48:GLU:OE1	2.28	0.52
29:D7:5:TRP:CH2	31:DA:464:U:H4'	2.44	0.52
30:D8:39:LYS:O	30:D8:39:LYS:CE	2.57	0.52
31:DA:27:G:N2	31:DA:512:G:O2'	2.42	0.52
31:DA:587:C:OP2	41:DP:33:ARG:NH2	2.40	0.52
31:DA:786:C:C2'	31:DA:787:U:H5'	2.40	0.52
31:DA:877:U:O5'	31:DA:877:U:H6	1.93	0.52
31:DA:1022:G:C6	31:DA:1140:C:C4	2.97	0.52
31:DA:1138:G:H1'	39:DN:105:GLY:O	2.09	0.52
31:DA:1176:G:C4'	31:DA:1177:A:OP1	2.58	0.52
31:DA:1212:G:C2	31:DA:1236:G:C4	2.98	0.52
31:DA:1527:G:C5'	31:DA:1528:A:OP1	2.58	0.52
31:DA:1639:U:H2'	31:DA:1640:C:C5'	2.33	0.52
31:DA:1854:A:C8	31:DA:1855:G:C8	2.97	0.52
31:DA:1991:U:H2'	31:DA:1992:G:H5''	1.92	0.52
31:DA:2064:C:H2'	31:DA:2065:C:C6	2.45	0.52
31:DA:2262:U:C2	31:DA:2279:G:N2	2.78	0.52
31:DA:2442:C:H2'	31:DA:2443:C:H6	1.75	0.52
31:DA:2544:G:H2'	31:DA:2545:G:O4'	2.10	0.52
31:DA:2664:G:C2'	31:DA:2665:A:O5'	2.58	0.52
31:DA:2747:G:O2'	37:DH:67:LEU:HD13	2.10	0.52
31:DA:2762:G:H5''	31:DA:2762:G:H8	1.73	0.52
34:DE:56:PRO:O	34:DE:58:ARG:N	2.42	0.52
37:DH:153:LYS:HE2	37:DH:154:PRO:C	2.30	0.52
41:DP:88:LEU:C	41:DP:90:ARG:N	2.62	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DS:17:ARG:HA	44:DS:20:ARG:HG2	1.90	0.52
46:DU:90:VAL:O	46:DU:91:ASP:C	2.47	0.52
47:DV:17:GLY:O	47:DV:18:LEU:HB3	2.08	0.52
51:DZ:63:ASP:C	51:DZ:65:GLN:N	2.63	0.52
1:AA:345:C:H5'	45:BT:36:GLU:HG3	1.91	0.52
1:AA:598:U:H4'	8:AH:94:TYR:CG	2.45	0.52
1:AA:770:C:O2'	1:AA:771:G:H5'	2.10	0.52
1:AA:836:G:C6	1:AA:851:G:C5	2.97	0.52
1:AA:836:G:C6	1:AA:851:G:C6	2.97	0.52
1:AA:1099:G:C2	1:AA:1100:C:C2	2.98	0.52
1:AA:1298:C:C6	7:AG:114:ARG:NH1	2.78	0.52
1:AA:1323:G:H2'	1:AA:1324:A:O4'	2.10	0.52
1:AA:1496:C:O2'	31:BA:1920:C:H4'	2.09	0.52
2:AB:8:LYS:NZ	2:AB:217:ARG:HH11	2.08	0.52
2:AB:28:PHE:CD1	2:AB:190:THR:HA	2.45	0.52
4:AD:128:VAL:HA	4:AD:145:GLU:O	2.10	0.52
8:AH:44:PHE:HE2	8:AH:109:ILE:HG21	1.74	0.52
11:AK:17:GLY:HA2	11:AK:35:PRO:HD3	1.91	0.52
11:AK:21:ILE:HB	11:AK:84:VAL:HG12	1.90	0.52
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.92	0.52
22:B0:74:ARG:HG2	32:BB:12:C:HO2'	1.70	0.52
30:B8:22:VAL:HB	30:B8:53:PRO:HB3	1.92	0.52
30:B8:29:LYS:HA	30:B8:32:LEU:HD12	1.92	0.52
30:B8:41:ILE:HD12	30:B8:42:ARG:N	2.25	0.52
31:BA:103:A:C2'	31:BA:104:U:H5'	2.40	0.52
31:BA:267:C:H2'	31:BA:268:C:H6	1.75	0.52
31:BA:342:G:H2'	31:BA:343:C:H6	1.75	0.52
31:BA:492:A:H2'	31:BA:493:G:O4'	2.08	0.52
31:BA:699:A:H4'	31:BA:1634:A:N7	2.24	0.52
31:BA:756:C:N4	31:BA:757:U:C4	2.78	0.52
31:BA:1022:G:N7	39:BN:66:LYS:HE2	2.24	0.52
31:BA:2106:G:H1'	31:BA:2184:G:H22	1.75	0.52
31:BA:2283:C:H2'	31:BA:2284:C:C5'	2.40	0.52
31:BA:2486:G:H2'	31:BA:2487:G:O5'	2.09	0.52
31:BA:2583:G:H2'	31:BA:2584:U:O2	2.10	0.52
31:BA:2682:U:O4'	34:BE:12:THR:HA	2.09	0.52
33:BD:35:LYS:CG	33:BD:64:ILE:N	2.73	0.52
33:BD:145:VAL:HG11	33:BD:175:LEU:HD11	1.91	0.52
36:BG:43:LEU:HD12	36:BG:153:ARG:HD2	1.92	0.52
38:BI:15:VAL:O	38:BI:17:GLN:N	2.43	0.52
41:BP:16:ARG:CD	41:BP:18:ARG:HB2	2.26	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:51:PHE:O	41:BP:52:GLU:CB	2.51	0.52
41:BP:119:GLU:HA	41:BP:119:GLU:OE1	2.09	0.52
47:BV:62:LEU:HD22	47:BV:98:GLU:HG2	1.91	0.52
48:BW:29:LEU:CD1	48:BW:51:LEU:HD11	2.40	0.52
50:BY:46:LYS:HB3	50:BY:47:LYS:HE2	1.92	0.52
50:BY:77:PRO:O	50:BY:78:ALA:CB	2.58	0.52
51:BZ:155:LEU:O	51:BZ:157:LEU:HD23	2.10	0.52
1:CA:149:A:O2'	1:CA:150:C:P	2.68	0.52
1:CA:437:U:O3'	4:CD:125:HIS:NE2	2.42	0.52
1:CA:509:A:O2'	1:CA:510:A:P	2.67	0.52
1:CA:941:G:N2	1:CA:942:G:H1'	2.24	0.52
1:CA:1072:G:C6	1:CA:1104:G:C6	2.98	0.52
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.90	0.52
4:CD:192:GLU:CD	4:CD:192:GLU:H	2.13	0.52
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	2.09	0.52
7:CG:66:VAL:O	7:CG:70:LYS:HG3	2.09	0.52
7:CG:91:VAL:O	7:CG:96:GLN:HG3	2.09	0.52
10:CJ:50:ILE:HD12	10:CJ:60:ARG:HH11	1.75	0.52
11:CK:29:ILE:HD12	11:CK:44:SER:HB3	1.92	0.52
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.75	0.52
13:CM:56:LEU:O	13:CM:60:VAL:HG23	2.10	0.52
22:D0:18:ALA:HB2	31:DA:2272:U:OP2	2.10	0.52
23:D1:87:PRO:CB	23:D1:91:LYS:NZ	2.72	0.52
25:D3:22:ALA:O	25:D3:26:LEU:HG	2.09	0.52
28:D6:19:ARG:CG	28:D6:20:ASN:N	2.71	0.52
31:DA:52:A:OP2	31:DA:117:G:N1	2.37	0.52
31:DA:272(G):C:O2	31:DA:272(G):C:H2'	2.09	0.52
31:DA:452:G:C4	31:DA:458:G:C6	2.98	0.52
31:DA:542:C:H42	31:DA:543:C:N4	2.03	0.52
31:DA:1461:G:C2	31:DA:1462:C:C6	2.98	0.52
31:DA:1764:G:N2	31:DA:1765:C:C2	2.78	0.52
31:DA:1900:A:C2	31:DA:1970:A:C4	2.98	0.52
31:DA:2020:A:P	46:DU:27:LEU:HD23	2.50	0.52
31:DA:2206:G:H3'	31:DA:2206:G:N3	2.25	0.52
31:DA:2393:A:H2'	31:DA:2394:C:O4'	2.10	0.52
31:DA:2695:C:H2'	31:DA:2696:U:C6	2.45	0.52
31:DA:2712:U:HO2'	31:DA:2712(A):A:P	2.30	0.52
31:DA:2854:G:C4	31:DA:2855:C:C5	2.97	0.52
33:DD:35:LYS:CG	33:DD:64:ILE:H	2.23	0.52
33:DD:35:LYS:HZ3	33:DD:104:TYR:HB2	1.74	0.52
34:DE:14:ILE:HG13	34:DE:21:VAL:HG23	1.90	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:92:ILE:C	37:DH:94:TYR:H	2.13	0.52
38:DI:29:TYR:HD2	38:DI:30:LEU:HD23	1.75	0.52
38:DI:92:VAL:HG23	38:DI:96:ASP:OD2	2.08	0.52
46:DU:106:PHE:O	46:DU:110:VAL:HG23	2.09	0.52
47:DV:61:VAL:O	47:DV:99:ILE:HB	2.09	0.52
51:DZ:54:HIS:O	51:DZ:55:HIS:CD2	2.62	0.52
1:AA:356:A:C2'	1:AA:357:G:O5'	2.58	0.52
1:AA:604:G:C5	1:AA:605:U:C5	2.97	0.52
1:AA:1226:C:H2'	13:AM:103:THR:OG1	2.09	0.52
1:AA:1226:C:H42	13:AM:104:ARG:HD2	1.75	0.52
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.25	0.52
15:AO:61:GLY:O	15:AO:64:ARG:HB3	2.09	0.52
15:AO:64:ARG:NH1	15:AO:88:ARG:NH1	2.57	0.52
23:B1:39:LYS:HE3	31:BA:201:C:OP1	2.10	0.52
24:B2:32:LEU:O	24:B2:33:MET:C	2.48	0.52
27:B5:2:ALA:HA	31:BA:2015:A:C1'	2.28	0.52
28:B6:11:LEU:HD11	28:B6:26:ASN:HD21	1.74	0.52
31:BA:123:G:O3'	31:BA:1376:C:H4'	2.10	0.52
31:BA:292:C:O2'	31:BA:293:U:H5'	2.10	0.52
31:BA:322:A:H3'	35:BF:169:ASN:ND2	2.24	0.52
31:BA:603:A:C4'	31:BA:604:G:O5'	2.57	0.52
31:BA:687:C:C2	31:BA:788:A:H5'	2.44	0.52
31:BA:857:C:C2	31:BA:858:U:C5	2.98	0.52
31:BA:975(A):G:H1'	31:BA:990:A:C2	2.45	0.52
31:BA:1018:C:O2'	31:BA:1019:U:H5'	2.10	0.52
31:BA:1142(A):A:C5	31:BA:1144:G:C5	2.97	0.52
31:BA:1245:G:OP1	41:BP:16:ARG:CD	2.57	0.52
31:BA:1341:U:H5'	49:BX:57:LEU:HG	1.91	0.52
31:BA:1439:A:C2	31:BA:1553:A:C5	2.98	0.52
31:BA:1562:A:C2	31:BA:1563:G:C4	2.98	0.52
31:BA:1661:G:O2'	31:BA:1662:C:H5'	2.10	0.52
31:BA:1786:A:H2	31:BA:2606:C:H1'	1.75	0.52
31:BA:1816:G:C8	33:BD:62:TYR:CZ	2.97	0.52
31:BA:2241:A:O2'	31:BA:2242:G:H5'	2.09	0.52
31:BA:2291:U:C5'	31:BA:2380:C:O2	2.58	0.52
31:BA:2470:G:C2	31:BA:2471:C:C5	2.98	0.52
32:BB:115:G:H2'	32:BB:116:G:H8	1.73	0.52
34:BE:65:GLY:HA2	34:BE:70:ALA:HB2	1.92	0.52
37:BH:70:THR:O	37:BH:71:LEU:C	2.48	0.52
38:BI:64:GLU:O	38:BI:68:LEU:HB2	2.10	0.52
38:BI:117:GLU:HG3	38:BI:118:LYS:H	1.75	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:134:ARG:C	42:BQ:136:ALA:H	2.12	0.52
49:BX:85:PRO:O	49:BX:86:GLY:C	2.47	0.52
1:CA:38:G:H4'	1:CA:547:A:N6	2.25	0.52
1:CA:177:C:O2'	1:CA:178:C:H5'	2.10	0.52
1:CA:182:U:C4	1:CA:183:G:H1'	2.44	0.52
1:CA:223:U:H2'	1:CA:224:C:C6	2.45	0.52
1:CA:273:A:C2'	1:CA:274:A:H5'	2.38	0.52
1:CA:353:A:H2'	1:CA:354:G:OP2	2.10	0.52
1:CA:519:C:C2'	1:CA:520:A:O5'	2.58	0.52
1:CA:581:G:C2	1:CA:582:U:O4	2.62	0.52
1:CA:939:G:H5''	7:CG:102:ARG:NH2	2.24	0.52
1:CA:1084:G:OP1	1:CA:1086:U:C6	2.63	0.52
1:CA:1160:G:N2	1:CA:1161:C:C6	2.77	0.52
1:CA:1386:G:C2	1:CA:1387:G:N7	2.78	0.52
5:CE:102:ALA:O	5:CE:107:ARG:NH1	2.42	0.52
7:CG:79:ARG:CZ	7:CG:84:ASN:HD21	2.23	0.52
8:CH:95:VAL:HG12	8:CH:99:GLU:HB2	1.92	0.52
12:CL:18:VAL:O	12:CL:19:ARG:HB3	2.09	0.52
13:CM:39:ILE:HD12	13:CM:56:LEU:HD23	1.92	0.52
29:D7:12:ARG:HG3	31:DA:686:G:O6	2.10	0.52
31:DA:241:A:O4'	31:DA:243:U:C6	2.63	0.52
31:DA:363(D):G:C6	31:DA:363(E):U:O4	2.63	0.52
31:DA:1006:C:O2'	31:DA:1007:C:H5'	2.08	0.52
31:DA:1044:G:H2'	31:DA:1044:G:N3	2.23	0.52
31:DA:1146:C:C4	31:DA:1147:C:C5	2.98	0.52
31:DA:1286:A:C2	31:DA:1289:C:C6	2.98	0.52
31:DA:1344:G:H4'	31:DA:1384:A:N7	2.25	0.52
31:DA:2036:C:H5'	31:DA:2036:C:H6	1.74	0.52
31:DA:2286:A:C5'	31:DA:2287:A:O4'	2.58	0.52
31:DA:2291:U:H5''	31:DA:2380:C:H1'	1.92	0.52
31:DA:2347:C:C2	31:DA:2348:U:C5	2.98	0.52
31:DA:2409:G:C6	31:DA:2410:G:C5	2.97	0.52
31:DA:2438:U:H5''	31:DA:2600:A:OP1	2.10	0.52
31:DA:2758:A:C4	37:DH:67:LEU:HD21	2.45	0.52
31:DA:2846:G:H2'	31:DA:2847:U:O4'	2.09	0.52
55:DA:3320:TEL:H142	55:DA:3320:TEL:C1	2.13	0.52
32:DB:13:A:O2'	32:DB:14:U:H3'	2.09	0.52
32:DB:118:G:C2	32:DB:119:G:N7	2.78	0.52
34:DE:60:ASN:N	34:DE:60:ASN:ND2	2.58	0.52
37:DH:146:ALA:O	37:DH:150:ALA:N	2.41	0.52
39:DN:46:VAL:O	39:DN:47:ALA:HB3	2.10	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DO:36:GLY:HA2	40:DO:106:LEU:HD21	1.92	0.52
40:DO:49:ARG:HD3	40:DO:49:ARG:N	2.24	0.52
43:DR:81:ASP:O	43:DR:85:PRO:HG3	2.10	0.52
44:DS:35:ILE:HD11	44:DS:99:LYS:HE2	1.91	0.52
47:DV:19:LYS:CG	47:DV:20:LEU:N	2.54	0.52
48:DW:20:VAL:CG2	48:DW:21:VAL:N	2.72	0.52
49:DX:60:ARG:HE	49:DX:74:PRO:CD	2.23	0.52
51:DZ:5:LEU:HD12	51:DZ:47:VAL:HG23	1.91	0.52
51:DZ:30:ASN:HA	51:DZ:89:PHE:HE2	1.75	0.52
51:DZ:128:VAL:HG11	51:DZ:133:ILE:HG12	1.91	0.52
1:AA:184:G:C4'	1:AA:224:C:H4'	2.40	0.52
1:AA:353:A:C2'	1:AA:354:G:OP2	2.58	0.52
1:AA:397:A:N7	1:AA:548:G:H8	2.07	0.52
1:AA:487:A:H2'	1:AA:488:C:O4'	2.10	0.52
1:AA:985:C:H2'	1:AA:986:A:C8	2.45	0.52
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.45	0.52
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.73	0.52
2:AB:25:ASN:ND2	2:AB:193:ASP:HB3	2.24	0.52
3:AC:126:ARG:C	3:AC:127:ARG:HD2	2.30	0.52
4:AD:91:SER:O	4:AD:94:LEU:HB2	2.09	0.52
5:AE:11:ILE:HD12	5:AE:105:VAL:HA	1.92	0.52
9:AI:5:TYR:HA	9:AI:17:VAL:O	2.09	0.52
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.92	0.52
12:AL:104:VAL:HG12	12:AL:105:TYR:CD2	2.45	0.52
14:AN:15:LYS:O	14:AN:16:PHE:O	2.27	0.52
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.09	0.52
24:B2:21:LEU:CD1	24:B2:50:ILE:HG22	2.39	0.52
31:BA:296:C:O2'	31:BA:297:C:H5'	2.09	0.52
31:BA:376:C:H2'	31:BA:377:C:C6	2.44	0.52
31:BA:725:G:H8	31:BA:725:G:O5'	1.93	0.52
31:BA:827:U:O2	31:BA:2246:G:H4'	2.09	0.52
31:BA:993:G:H1'	47:BV:91:TYR:CD1	2.45	0.52
31:BA:1139:G:O2'	31:BA:1143:A:N1	2.30	0.52
31:BA:1276:A:O2'	43:BR:16:HIS:CE1	2.63	0.52
31:BA:1503:U:C4	31:BA:1504:C:N4	2.76	0.52
31:BA:1567:A:H2'	33:BD:86:PRO:HB3	1.92	0.52
31:BA:1639:U:H2'	31:BA:1640:C:C5'	2.36	0.52
31:BA:1686:C:O2'	31:BA:1687:G:H5'	2.09	0.52
31:BA:2236:C:H2'	31:BA:2237:G:C5'	2.35	0.52
31:BA:2287:A:O2'	31:BA:2288:A:H3'	2.10	0.52
31:BA:2360:A:O2'	31:BA:2361:A:OP2	2.26	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BA:3362:TEL:O18	55:BA:3362:TEL:C33	2.54	0.52
33:BD:32:SER:O	33:BD:33:LEU:CB	2.57	0.52
33:BD:148:GLU:HB2	33:BD:151:LYS:HD2	1.92	0.52
35:BF:114:VAL:HG21	35:BF:202:PHE:CZ	2.44	0.52
38:BI:123:LEU:CD2	38:BI:142:VAL:HB	2.38	0.52
41:BP:17:LYS:C	41:BP:19:VAL:N	2.63	0.52
42:BQ:42:ILE:HD13	42:BQ:97:VAL:HB	1.90	0.52
44:BS:80:LEU:H	44:BS:80:LEU:HD12	1.73	0.52
49:BX:36:LYS:NZ	49:BX:38:GLU:C	2.58	0.52
1:CA:538:G:P	12:CL:115:LYS:HB2	2.50	0.52
1:CA:978:A:H5''	1:CA:979:C:OP2	2.10	0.52
1:CA:985:C:H2'	1:CA:986:A:C8	2.45	0.52
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.92	0.52
2:CB:70:PHE:CD2	2:CB:163:PHE:HB3	2.45	0.52
2:CB:167:PRO:HG3	2:CB:188:ALA:CB	2.39	0.52
4:CD:181:MET:HG3	4:CD:181:MET:O	2.10	0.52
5:CE:11:ILE:HD12	5:CE:105:VAL:HA	1.91	0.52
6:CF:61:LEU:HD23	6:CF:63:TYR:OH	2.09	0.52
12:CL:38:THR:HG21	12:CL:65:GLU:OE2	2.09	0.52
12:CL:102:ARG:HD2	12:CL:109:GLY:HA2	1.92	0.52
24:D2:30:ARG:HD2	24:D2:30:ARG:N	2.19	0.52
30:D8:27:THR:HA	41:DP:62:LEU:CD1	2.39	0.52
30:D8:31:HIS:CD2	31:DA:2419:U:O4	2.62	0.52
30:D8:38:GLY:C	30:D8:40:GLU:H	2.13	0.52
31:DA:389:G:H1	41:DP:71:VAL:CB	2.23	0.52
31:DA:449:A:H2'	31:DA:450:G:C5'	2.40	0.52
31:DA:658:C:H2'	31:DA:659:C:C6	2.44	0.52
31:DA:711:G:O2'	31:DA:712:G:H5'	2.10	0.52
31:DA:772:C:O2'	31:DA:773:U:H5'	2.10	0.52
31:DA:863:A:C2	31:DA:864:G:C4	2.98	0.52
31:DA:1047:G:H2'	31:DA:1110:G:H22	1.73	0.52
31:DA:1248:G:C8	46:DU:3:ARG:HB2	2.45	0.52
31:DA:1358:G:O2'	31:DA:1359:A:H5''	2.09	0.52
31:DA:1717:G:C2	31:DA:1718:G:C8	2.98	0.52
31:DA:1825:A:O4'	33:DD:254:THR:HG21	2.08	0.52
31:DA:2065:C:H1'	31:DA:2449:U:O2	2.10	0.52
31:DA:2415:G:C5	31:DA:2416:C:C5	2.98	0.52
31:DA:2436:G:C6	31:DA:2437:U:C4	2.97	0.52
31:DA:2511:U:O4	31:DA:2575:C:N3	2.43	0.52
31:DA:2681:C:H2'	31:DA:2681:C:O2	2.10	0.52
33:DD:224:ALA:O	33:DD:225:ALA:HB2	2.10	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:168:MET:O	34:DE:170:LEU:HD12	2.09	0.52
35:DF:3:GLU:O	35:DF:19:GLU:HA	2.09	0.52
36:DG:16:ARG:HH11	36:DG:16:ARG:CB	2.23	0.52
36:DG:43:LEU:HD12	36:DG:153:ARG:HD2	1.92	0.52
44:DS:29:PHE:N	44:DS:89:ARG:CD	2.65	0.52
45:DT:34:VAL:HG13	45:DT:39:ARG:HB3	1.92	0.52
45:DT:50:ILE:HA	45:DT:99:LEU:HD11	1.91	0.52
45:DT:90:GLN:HG2	45:DT:120:ARG:HH12	1.74	0.52
45:DT:121:ILE:O	45:DT:124:ASP:HB2	2.10	0.52
46:DU:92:ARG:O	46:DU:95:LEU:N	2.37	0.52
47:DV:21:ARG:HA	47:DV:94:LEU:O	2.10	0.52
50:DY:95:LYS:CD	50:DY:100:ALA:HB1	2.40	0.52
1:AA:73:G:N2	1:AA:76:C:C2	2.78	0.52
1:AA:276:G:H2'	1:AA:277:C:H5'	1.92	0.52
1:AA:307:C:H2'	1:AA:308:C:H5'	1.92	0.52
1:AA:376:G:H4'	16:AP:5:ARG:NH1	2.24	0.52
1:AA:659:U:H2'	1:AA:660:G:C5'	2.35	0.52
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.75	0.52
2:AB:178:ARG:NH1	2:AB:196:LEU:O	2.38	0.52
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.74	0.52
8:AH:5:PRO:O	8:AH:8:ASP:HB3	2.09	0.52
10:AJ:24:VAL:HG21	10:AJ:37:PRO:HG3	1.90	0.52
14:AN:44:LEU:O	14:AN:44:LEU:HD12	2.09	0.52
15:AO:56:LEU:HD21	31:BA:715:G:C4	2.45	0.52
16:AP:38:TYR:O	16:AP:39:TYR:HB2	2.10	0.52
19:AS:51:VAL:HG11	19:AS:71:LEU:O	2.10	0.52
24:B2:49:LYS:O	24:B2:53:LEU:HB3	2.10	0.52
27:B5:51:TYR:CD2	27:B5:52:TYR:OH	2.62	0.52
31:BA:271(S):G:H2'	31:BA:271(T):C:O4'	2.10	0.52
31:BA:349:G:C2'	31:BA:350:U:H5'	2.40	0.52
31:BA:877:U:H6	31:BA:877:U:O5'	1.93	0.52
31:BA:901:A:H5'	31:BA:902:C:OP2	2.10	0.52
31:BA:1299:G:H5''	31:BA:1300:U:O5'	2.10	0.52
31:BA:1404:C:N3	31:BA:1405:U:C5	2.78	0.52
31:BA:1803:A:O3'	33:BD:259:THR:HG21	2.10	0.52
31:BA:1940:U:C4	31:BA:1964:G:H4'	2.44	0.52
31:BA:1972:A:H2'	31:BA:1973:G:C8	2.45	0.52
31:BA:2061:G:C2	31:BA:2063:C:C4	2.98	0.52
31:BA:2521:C:O2	31:BA:2521:C:C2'	2.45	0.52
31:BA:2630:G:H1'	31:BA:2894:G:H1'	1.92	0.52
31:BA:2769:C:C2'	31:BA:2770:G:O5'	2.58	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:119:ARG:HB3	35:BF:119:ARG:CZ	2.40	0.52
35:BF:138:GLU:O	35:BF:139:PHE:C	2.48	0.52
36:BG:60:LEU:C	36:BG:60:LEU:HD13	2.31	0.52
36:BG:137:GLU:O	36:BG:140:ILE:HG12	2.09	0.52
37:BH:153:LYS:CG	37:BH:154:PRO:N	2.73	0.52
37:BH:158:HIS:NE2	37:BH:168:PRO:HB2	2.25	0.52
38:BI:94:ALA:O	38:BI:98:ALA:HB2	2.10	0.52
41:BP:89:ALA:C	41:BP:91:PHE:H	2.14	0.52
44:BS:17:ARG:HA	44:BS:20:ARG:HG2	1.91	0.52
44:BS:90:GLY:C	44:BS:92:TYR:N	2.63	0.52
45:BT:34:VAL:O	45:BT:35:LYS:HB3	2.10	0.52
46:BU:61:TRP:CD2	46:BU:94:ASN:HA	2.45	0.52
49:BX:85:PRO:O	49:BX:87:GLN:N	2.43	0.52
50:BY:11:ASP:N	50:BY:27:VAL:HA	2.25	0.52
50:BY:81:LYS:HB3	50:BY:96:ILE:HG22	1.92	0.52
51:BZ:128:VAL:HG11	51:BZ:133:ILE:HG12	1.92	0.52
1:CA:27:G:O2'	1:CA:28:G:H5'	2.09	0.52
1:CA:84:U:C5	1:CA:88:A:C8	2.98	0.52
1:CA:250:A:C4'	1:CA:251:G:O5'	2.57	0.52
1:CA:323:U:H5'	20:CT:23:ARG:HB2	1.92	0.52
1:CA:331:G:OP1	1:CA:332:G:H8	1.93	0.52
1:CA:363:A:O2'	1:CA:364:A:H5'	2.10	0.52
1:CA:552:U:O2'	1:CA:553:A:H5'	2.09	0.52
1:CA:604:G:C5	1:CA:605:U:C5	2.98	0.52
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.10	0.52
2:CB:28:PHE:CD1	2:CB:190:THR:HA	2.45	0.52
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.10	0.52
4:CD:20:TYR:CD2	4:CD:26:CYS:HB3	2.44	0.52
4:CD:127:THR:HA	4:CD:132:ARG:HA	1.92	0.52
13:CM:32:GLU:OE2	13:CM:64:TRP:HH2	1.93	0.52
15:CO:75:PRO:O	15:CO:79:ARG:HG3	2.10	0.52
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.43	0.52
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.24	0.52
18:CR:53:ARG:NH2	18:CR:60:ALA:N	2.58	0.52
20:CT:16:HIS:O	20:CT:19:SER:N	2.43	0.52
25:D3:52:HIS:CD2	25:D3:53:LEU:HG	2.45	0.52
27:D5:50:GLY:O	27:D5:51:TYR:CD1	2.58	0.52
31:DA:57:C:H2'	31:DA:58:G:O5'	2.10	0.52
31:DA:412:A:H2'	31:DA:413:C:H5'	1.92	0.52
31:DA:817:C:H2'	31:DA:818:G:O4'	2.10	0.52
31:DA:817:C:C2'	31:DA:818:G:H8	2.23	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:830:G:H4'	31:DA:831:G:OP2	2.10	0.52
31:DA:934:G:H2'	31:DA:935:C:C6	2.45	0.52
31:DA:1493:C:C5	31:DA:2206:G:O2'	2.62	0.52
31:DA:1833:U:C4	31:DA:1834:U:C5	2.98	0.52
31:DA:1882:C:H3'	31:DA:1883:G:H8	1.74	0.52
31:DA:2469:A:O2'	42:DQ:56:ARG:HG2	2.09	0.52
31:DA:2539:C:N3	31:DA:2540:C:C5	2.78	0.52
31:DA:2630:G:H1'	31:DA:2894:G:H1'	1.90	0.52
31:DA:2657:A:C2	31:DA:2664:G:N2	2.76	0.52
32:DB:13:A:C6	32:DB:70:C:H5'	2.44	0.52
33:DD:243:GLY:O	33:DD:244:ARG:HB3	2.09	0.52
34:DE:91:VAL:HG13	34:DE:95:ILE:CD1	2.40	0.52
39:DN:28:THR:HG22	39:DN:29:LYS:N	2.25	0.52
43:DR:84:ALA:N	43:DR:85:PRO:HD2	2.25	0.52
44:DS:18:ILE:HG22	44:DS:19:LYS:N	2.25	0.52
44:DS:88:ASP:OD2	44:DS:89:ARG:N	2.42	0.52
44:DS:106:ARG:O	44:DS:107:GLU:CB	2.58	0.52
46:DU:68:ALA:O	46:DU:71:GLN:HB2	2.10	0.52
1:AA:117:G:O2'	1:AA:118:U:H5'	2.10	0.51
1:AA:883:C:H2'	1:AA:884:U:H5'	1.91	0.51
1:AA:975:A:H5''	1:AA:1363(A):A:N6	2.24	0.51
1:AA:1097:C:C2	1:AA:1098:C:C6	2.98	0.51
1:AA:1418:A:C2	1:AA:1483:A:C2	2.98	0.51
2:AB:91:PRO:HG3	2:AB:154:LEU:CB	2.34	0.51
4:AD:18:LYS:HE3	4:AD:31:CYS:SG	2.50	0.51
4:AD:47:ARG:HH21	4:AD:49:ARG:NH2	2.08	0.51
4:AD:80:GLU:O	4:AD:84:LYS:HG2	2.09	0.51
8:AH:53:VAL:O	8:AH:54:ASP:HB2	2.10	0.51
12:AL:102:ARG:HD2	12:AL:109:GLY:HA2	1.92	0.51
25:B3:11:SER:HB3	31:BA:988:A:P	2.50	0.51
27:B5:58:LEU:O	27:B5:59:GLU:HB3	2.10	0.51
28:B6:27:LYS:HE3	31:BA:2285:C:C5	2.45	0.51
31:BA:272(B):G:O2'	31:BA:272(C):G:C5'	2.58	0.51
31:BA:376:C:H2'	31:BA:377:C:H6	1.75	0.51
31:BA:645:C:H3'	31:BA:645:C:O2	2.11	0.51
31:BA:1138:G:H5''	31:BA:1139:G:OP2	2.10	0.51
31:BA:1142(A):A:H8	31:BA:1142(A):A:H5'	1.75	0.51
31:BA:1348:G:C2'	31:BA:1349:A:H5''	2.40	0.51
31:BA:1446:C:C4	31:BA:1447:G:N7	2.78	0.51
31:BA:1790:C:H4'	33:BD:209:ALA:HB1	1.92	0.51
31:BA:1952:A:N3	40:BO:22:ILE:HG13	2.25	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2287:A:H2	31:BA:2346:A:H2	1.58	0.51
31:BA:2516:G:C2'	31:BA:2517:C:H5'	2.40	0.51
31:BA:2584:U:O2	31:BA:2584:U:O4'	2.26	0.51
31:BA:2637:U:C2'	31:BA:2638:G:H5'	2.40	0.51
32:BB:13:A:O2'	32:BB:14:U:H3'	2.09	0.51
32:BB:75:G:H5'	32:BB:75:G:C8	2.33	0.51
33:BD:39:LYS:HB2	33:BD:62:TYR:HB2	1.92	0.51
33:BD:239:ARG:O	33:BD:240:ALA:HB2	2.09	0.51
35:BF:3:GLU:O	35:BF:19:GLU:HA	2.10	0.51
35:BF:3:GLU:HA	35:BF:24:LEU:HB3	1.91	0.51
38:BI:52:ARG:HG3	38:BI:53:ALA:N	2.25	0.51
38:BI:113:ARG:HB2	38:BI:130:TYR:CZ	2.45	0.51
39:BN:15:LEU:HD13	39:BN:15:LEU:C	2.30	0.51
41:BP:6:LEU:HG	41:BP:8:PRO:O	2.10	0.51
41:BP:101:VAL:HG22	41:BP:102:ARG:N	2.24	0.51
43:BR:13:HIS:O	43:BR:14:SER:C	2.49	0.51
45:BT:30:VAL:O	45:BT:82:LEU:HA	2.09	0.51
47:BV:13:ARG:HH11	47:BV:13:ARG:HG2	1.75	0.51
48:BW:20:VAL:HG23	48:BW:47:VAL:HG21	1.93	0.51
48:BW:24:ILE:HD12	48:BW:24:ILE:O	2.09	0.51
50:BY:2:ARG:C	50:BY:4:LYS:N	2.60	0.51
1:CA:241:C:C2	1:CA:286:G:C2	2.98	0.51
1:CA:322:C:H5	1:CA:328:C:C5	2.27	0.51
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.26	0.51
1:CA:1127:G:H1'	1:CA:1148:U:H3	1.75	0.51
1:CA:1273:G:H3'	1:CA:1274:G:H8	1.74	0.51
1:CA:1477:C:H2'	1:CA:1478:C:H6	1.75	0.51
2:CB:21:ARG:O	2:CB:21:ARG:HG3	2.10	0.51
3:CC:83:ARG:O	3:CC:87:LEU:HG	2.10	0.51
15:CO:17:ARG:HH11	15:CO:17:ARG:CG	2.22	0.51
19:CS:62:ILE:HG23	19:CS:62:ILE:O	2.10	0.51
20:CT:30:LYS:HG3	20:CT:34:LYS:CE	2.40	0.51
27:D5:6:VAL:HG13	31:DA:2016:U:H1'	1.92	0.51
30:D8:29:LYS:HZ1	30:D8:44:LYS:HB3	1.75	0.51
31:DA:272(B):G:O2'	31:DA:272(C):G:H5'	2.10	0.51
31:DA:665:C:H2'	31:DA:666:G:H8	1.74	0.51
31:DA:993:G:C5'	47:DV:75:PHE:CE2	2.93	0.51
31:DA:1255:U:H5''	31:DA:1256:G:O5'	2.10	0.51
31:DA:2016:U:C4	31:DA:2017:U:C4	2.98	0.51
31:DA:2399:G:C4	31:DA:2400:G:C8	2.97	0.51
31:DA:2690:C:OP2	43:DR:14:SER:HB3	2.10	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:3320:TEL:C10	55:DA:3320:TEL:C12	2.89	0.51
55:DA:3320:TEL:C10	55:DA:3320:TEL:H123	2.39	0.51
32:DB:25:A:C2'	32:DB:26:A:H8	2.22	0.51
32:DB:75:G:H8	32:DB:75:G:C5'	2.18	0.51
33:DD:27:THR:HG21	33:DD:83:GLU:CG	2.18	0.51
34:DE:96:PHE:CE2	34:DE:102:VAL:HG11	2.45	0.51
34:DE:111:ARG:NH1	43:DR:2:ARG:NH2	2.58	0.51
35:DF:154:VAL:HB	35:DF:173:VAL:HG22	1.91	0.51
35:DF:160:ASN:CG	35:DF:163:VAL:HG23	2.30	0.51
36:DG:11:TYR:O	36:DG:16:ARG:HG2	2.10	0.51
37:DH:158:HIS:CD2	37:DH:170:ARG:HA	2.44	0.51
38:DI:98:ALA:O	38:DI:102:SER:HB2	2.10	0.51
40:DO:46:ALA:O	40:DO:47:ILE:HD13	2.10	0.51
42:DQ:57:HIS:O	42:DQ:57:HIS:CG	2.63	0.51
42:DQ:81:VAL:O	42:DQ:82:ARG:CZ	2.58	0.51
43:DR:13:HIS:CE1	43:DR:15:SER:OG	2.64	0.51
49:DX:36:LYS:HD3	49:DX:38:GLU:HB2	1.92	0.51
50:DY:95:LYS:CE	50:DY:100:ALA:HB1	2.39	0.51
1:AA:36:C:C2'	1:AA:37:U:H5'	2.40	0.51
1:AA:509:A:H5''	4:AD:55:ALA:HB2	1.92	0.51
1:AA:1414:U:H3	1:AA:1486:G:H1	1.58	0.51
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.09	0.51
4:AD:57:ARG:NH2	5:AE:107:ARG:HD3	2.25	0.51
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.92	0.51
4:AD:108:LEU:C	4:AD:110:PHE:H	2.13	0.51
8:AH:80:ILE:HG22	8:AH:80:ILE:O	2.10	0.51
8:AH:112:LEU:HB2	8:AH:133:LEU:HA	1.91	0.51
9:AI:118:LYS:NZ	9:AI:118:LYS:CB	2.73	0.51
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.40	0.51
15:AO:18:PHE:CE1	15:AO:21:ASP:HB2	2.45	0.51
16:AP:8:ARG:HG2	16:AP:9:PHE:N	2.25	0.51
23:B1:37:ILE:O	23:B1:38:SER:HB2	2.09	0.51
24:B2:49:LYS:HA	24:B2:53:LEU:HB3	1.92	0.51
28:B6:15:GLU:CD	28:B6:18:ARG:HG3	2.29	0.51
29:B7:29:LYS:NZ	31:BA:210:C:OP2	2.35	0.51
30:B8:4:MET:HE1	31:BA:593:G:C1'	2.41	0.51
31:BA:271(K):U:H2'	31:BA:271(M):G:N2	2.25	0.51
31:BA:768:G:C4	31:BA:769:G:C8	2.99	0.51
31:BA:778:G:C6	31:BA:779:U:C4	2.98	0.51
31:BA:960:A:H5''	31:BA:961:C:OP2	2.10	0.51
31:BA:1300:U:H5''	31:BA:1301:A:H5''	1.91	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1686:C:C4	31:BA:1687:G:C5	2.98	0.51
31:BA:2058:A:N1	55:BA:3362:TEL:O48	2.31	0.51
31:BA:2436:G:C6	31:BA:2437:U:C4	2.98	0.51
31:BA:2570:G:H2'	31:BA:2571:C:O4'	2.10	0.51
31:BA:2666:C:N4	37:BH:109:PHE:HA	2.25	0.51
32:BB:57:A:N3	32:BB:58:A:H8	2.08	0.51
34:BE:52:LEU:HD13	34:BE:76:ARG:CG	2.39	0.51
34:BE:96:PHE:CE2	34:BE:102:VAL:HG11	2.45	0.51
36:BG:94:LEU:HD11	36:BG:102:PHE:CG	2.45	0.51
39:BN:47:ALA:HB1	39:BN:112:LEU:HD11	1.92	0.51
40:BO:23:ARG:HG2	40:BO:23:ARG:NH1	2.19	0.51
41:BP:62:LEU:N	41:BP:62:LEU:CD2	2.51	0.51
45:BT:25:GLY:O	45:BT:26:ASP:CB	2.58	0.51
46:BU:93:LYS:HD3	46:BU:93:LYS:N	2.11	0.51
48:BW:15:ARG:HA	48:BW:18:ARG:HD2	1.92	0.51
1:CA:604:G:H2'	1:CA:605:U:O4'	2.10	0.51
5:CE:126:ARG:CG	5:CE:126:ARG:NH1	2.72	0.51
6:CF:3:ARG:HD3	6:CF:64:GLN:OE1	2.10	0.51
8:CH:51:VAL:O	8:CH:52:ASP:HB2	2.10	0.51
12:CL:54:LYS:N	12:CL:54:LYS:HD2	2.25	0.51
15:CO:55:GLY:O	15:CO:56:LEU:C	2.46	0.51
21:CU:6:ARG:O	21:CU:12:LYS:HD3	2.10	0.51
23:D1:40:ARG:HD3	23:D1:41:ARG:N	2.25	0.51
24:D2:50:ILE:O	24:D2:51:ARG:HB3	2.10	0.51
28:D6:51:GLU:C	28:D6:52:VAL:HG23	2.31	0.51
31:DA:26:G:H1'	31:DA:515:A:H61	1.75	0.51
31:DA:39:C:H2'	31:DA:40:C:H6	1.75	0.51
31:DA:142:A:H8	31:DA:1595:G:N2	2.06	0.51
31:DA:661:C:O3'	41:DP:18:ARG:HA	2.09	0.51
31:DA:717:G:H2'	31:DA:718:A:O4'	2.10	0.51
31:DA:794:G:H2'	31:DA:795:C:H6	1.72	0.51
31:DA:1106:A:O2'	31:DA:1107:G:P	2.68	0.51
31:DA:1307:A:N6	31:DA:1606:G:O2'	2.43	0.51
31:DA:1373:A:C6	31:DA:1374:G:C4	2.98	0.51
31:DA:1404:C:H2'	31:DA:1404:C:O2	2.10	0.51
31:DA:1598:C:H2'	31:DA:1599:C:C6	2.45	0.51
31:DA:1764:G:C2	31:DA:1765:C:C2	2.99	0.51
31:DA:1783:A:H5'	31:DA:2608:G:H4'	1.91	0.51
31:DA:1816:G:H8	33:DD:62:TYR:CZ	2.28	0.51
31:DA:1914:C:C4	31:DA:1915:U:C4	2.98	0.51
31:DA:2412:A:H2'	31:DA:2413:G:O4'	2.10	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2623:G:H2'	31:DA:2624:G:H8	1.74	0.51
32:DB:33:G:N1	32:DB:50:G:C6	2.78	0.51
32:DB:41:U:H2'	32:DB:42:C:OP1	2.10	0.51
33:DD:35:LYS:CE	33:DD:64:ILE:C	2.79	0.51
33:DD:83:GLU:HB2	33:DD:92:ILE:CD1	2.39	0.51
33:DD:83:GLU:O	33:DD:92:ILE:HD12	2.10	0.51
34:DE:35:GLN:HB3	34:DE:48:GLN:CB	2.40	0.51
36:DG:25:TYR:HA	36:DG:30:GLU:OE2	2.11	0.51
41:DP:83:VAL:HG11	41:DP:112:LEU:HD21	1.90	0.51
41:DP:138:LEU:C	41:DP:140:ALA:N	2.61	0.51
42:DQ:77:LYS:HE3	42:DQ:82:ARG:HA	1.92	0.51
42:DQ:110:THR:HB	42:DQ:112:GLU:HG3	1.92	0.51
47:DV:99:ILE:HG22	47:DV:100:ARG:HG2	1.93	0.51
50:DY:20:TYR:N	50:DY:20:TYR:CD1	2.76	0.51
51:DZ:166:SER:OG	51:DZ:167:PRO:HA	2.10	0.51
1:AA:20:U:C2'	1:AA:21:G:H5'	2.41	0.51
1:AA:159:G:H21	1:AA:161:A:H3'	1.74	0.51
1:AA:229:U:H2'	1:AA:230:G:C8	2.46	0.51
1:AA:323:U:H5'	20:AT:23:ARG:HB2	1.92	0.51
1:AA:515:G:H2'	1:AA:516:U:O4'	2.09	0.51
1:AA:636:U:H5'	17:AQ:2:PRO:HG3	1.92	0.51
1:AA:955:U:H2'	1:AA:956:U:C6	2.46	0.51
1:AA:976:G:OP1	14:AN:32:SER:N	2.42	0.51
1:AA:1064:G:H4'	1:AA:1065:U:O5'	2.10	0.51
1:AA:1084:G:OP1	1:AA:1086:U:C5	2.63	0.51
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.46	0.51
1:AA:1483:A:H1'	31:BA:1948:G:O4'	2.11	0.51
12:AL:21:LYS:H	12:AL:21:LYS:HD2	1.75	0.51
13:AM:34:LEU:CD1	13:AM:41:PRO:HG3	2.40	0.51
14:AN:23:ARG:CZ	14:AN:30:ALA:HB2	2.40	0.51
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.91	0.51
21:AU:22:ARG:N	21:AU:23:PRO:HD3	2.26	0.51
31:BA:28:A:H61	31:BA:512:G:H1'	1.75	0.51
31:BA:306:U:H2'	31:BA:307:G:O4'	2.11	0.51
31:BA:717:G:H2'	31:BA:718:A:O4'	2.10	0.51
31:BA:822:U:C2'	31:BA:823:G:H5'	2.41	0.51
31:BA:852:G:O2'	31:BA:853:G:H5'	2.10	0.51
31:BA:945:A:C6	31:BA:2448:A:C4	2.99	0.51
31:BA:1562:A:H2'	31:BA:1563:G:C8	2.46	0.51
31:BA:1563:G:C5	31:BA:1564:C:C5	2.98	0.51
31:BA:1682:G:H2'	31:BA:1683:C:C6	2.45	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1803:A:H2	31:BA:1822:G:N3	2.09	0.51
31:BA:2070:G:H2'	31:BA:2071:A:C8	2.45	0.51
31:BA:2297:C:O2'	31:BA:2298:A:H5'	2.10	0.51
31:BA:2584:U:H2'	31:BA:2585:U:H6	1.74	0.51
31:BA:2807:G:H22	31:BA:2892:A:H61	1.59	0.51
33:BD:25:THR:O	33:BD:27:THR:HB	2.09	0.51
34:BE:102:VAL:HB	34:BE:199:ARG:O	2.08	0.51
40:BO:104:ARG:CZ	40:BO:104:ARG:HB3	2.39	0.51
1:CA:17:U:H2'	1:CA:18:C:C6	2.45	0.51
1:CA:29:G:N2	1:CA:554:C:O2	2.43	0.51
1:CA:291:C:O2'	1:CA:292:G:H5'	2.10	0.51
1:CA:837:G:C2	1:CA:838:G:N7	2.79	0.51
1:CA:1238:A:OP1	1:CA:1335:C:H1'	2.10	0.51
1:CA:1505:G:H4'	1:CA:1506:U:H5''	1.91	0.51
2:CB:67:THR:OG1	2:CB:155:LEU:HG	2.11	0.51
2:CB:163:PHE:HA	2:CB:185:ILE:O	2.10	0.51
4:CD:47:ARG:NH2	4:CD:49:ARG:NH2	2.58	0.51
4:CD:68:TYR:CE2	4:CD:97:LEU:HB3	2.46	0.51
8:CH:39:LEU:N	8:CH:39:LEU:HD22	2.25	0.51
8:CH:109:ILE:HD11	8:CH:111:ILE:HG12	1.90	0.51
9:CI:28:VAL:HA	9:CI:63:ILE:O	2.10	0.51
31:DA:70:G:H21	31:DA:71:A:N6	2.06	0.51
31:DA:271(H):G:O2'	31:DA:271(I):G:P	2.68	0.51
31:DA:312:G:H4'	31:DA:331:A:N3	2.25	0.51
31:DA:412:A:H8	31:DA:412:A:OP2	1.92	0.51
31:DA:814:C:H5	41:DP:27:HIS:CE1	2.26	0.51
31:DA:816:C:O2'	31:DA:932:G:O6	2.27	0.51
31:DA:968:G:H2'	31:DA:969:U:O4'	2.10	0.51
31:DA:1331:A:H2'	31:DA:1333:C:H5	1.73	0.51
31:DA:1795:C:H2'	31:DA:1796:U:H6	1.76	0.51
31:DA:2009:G:OP1	48:DW:41:LYS:HE2	2.10	0.51
31:DA:2415:G:C2'	31:DA:2416:C:H5'	2.40	0.51
31:DA:2496:C:OP1	42:DQ:81:VAL:CG1	2.58	0.51
31:DA:2573:C:OP1	31:DA:2574:G:OP1	2.28	0.51
31:DA:2692:C:O2'	31:DA:2693:A:H5'	2.11	0.51
31:DA:2724:C:OP2	43:DR:2:ARG:NH2	2.43	0.51
32:DB:27:C:O2	32:DB:27:C:C2'	2.57	0.51
33:DD:181:GLU:O	33:DD:182:LEU:HD23	2.10	0.51
35:DF:7:TYR:HD2	35:DF:16:GLY:HA3	1.76	0.51
35:DF:46:ARG:O	35:DF:48:THR:HG23	2.10	0.51
35:DF:124:LEU:HD12	35:DF:125:LEU:H	1.74	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:94:LEU:HD11	36:DG:102:PHE:CG	2.45	0.51
42:DQ:134:ARG:C	42:DQ:136:ALA:H	2.14	0.51
43:DR:99:LYS:HB3	43:DR:99:LYS:HZ3	1.76	0.51
45:DT:52:ILE:HA	45:DT:61:PHE:HA	1.91	0.51
46:DU:44:ASN:HD22	46:DU:44:ASN:H	1.57	0.51
47:DV:1:MET:H2	47:DV:44:LYS:HD2	1.74	0.51
49:DX:90:GLU:C	49:DX:92:LEU:H	2.14	0.51
50:DY:13:VAL:HG11	50:DY:72:VAL:HB	1.91	0.51
51:DZ:53:ILE:HG21	51:DZ:71:VAL:HB	1.89	0.51
51:DZ:150:LEU:O	51:DZ:171:ILE:HG12	2.10	0.51
1:AA:47:C:O2	1:AA:49:U:C4	2.64	0.51
1:AA:159:G:N3	1:AA:161:A:OP2	2.43	0.51
1:AA:509:A:C4'	1:AA:510:A:OP1	2.55	0.51
1:AA:581:G:N1	1:AA:759:A:OP2	2.33	0.51
1:AA:607:A:O2'	1:AA:608:A:H5'	2.10	0.51
1:AA:629:G:H2'	1:AA:630:G:O4'	2.10	0.51
1:AA:674:G:H2'	1:AA:675:A:H8	1.75	0.51
1:AA:819:A:N7	1:AA:1529:G:C2	2.78	0.51
1:AA:985:C:H2'	1:AA:986:A:H8	1.75	0.51
1:AA:1030(A):G:H1'	1:AA:1031:G:H22	1.75	0.51
1:AA:1096:C:C2	1:AA:1097:C:C5	2.98	0.51
1:AA:1125:U:H2'	1:AA:1126:U:OP2	2.10	0.51
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.46	0.51
4:AD:8:VAL:O	4:AD:11:LEU:HG	2.11	0.51
4:AD:117:ALA:O	4:AD:120:LEU:HB2	2.10	0.51
11:AK:91:ARG:O	11:AK:95:ILE:HG12	2.11	0.51
15:AO:63:ARG:HG2	15:AO:67:LEU:CD1	2.40	0.51
16:AP:51:VAL:HG12	16:AP:52:ASP:N	2.25	0.51
23:B1:34:THR:CG2	31:BA:388:G:P	2.99	0.51
29:B7:34:ARG:NH1	29:B7:39:ARG:HG3	2.25	0.51
30:B8:32:LEU:HD23	30:B8:35:GLN:O	2.09	0.51
31:BA:71:A:H2	49:BX:31:HIS:NE2	2.09	0.51
31:BA:269:U:O2	31:BA:269:U:C2'	2.56	0.51
31:BA:271(Q):G:O2'	31:BA:271(R):G:H8	1.94	0.51
31:BA:485:C:O2'	31:BA:486:C:H5'	2.10	0.51
31:BA:521:G:H2'	31:BA:522:G:C8	2.45	0.51
31:BA:1141:U:C5	39:BN:64:GLY:HA3	2.46	0.51
31:BA:1368:G:C2	31:BA:1369:G:C8	2.99	0.51
31:BA:1696:G:C6	31:BA:1697:G:C5	2.99	0.51
31:BA:1845:G:C2'	31:BA:1846:G:H5'	2.40	0.51
31:BA:1999:C:H5''	31:BA:2723:C:O2'	2.10	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2287:A:C2	31:BA:2289:G:C1'	2.94	0.51
31:BA:2347:C:C2	31:BA:2348:U:C5	2.97	0.51
31:BA:2713:A:H3'	31:BA:2714:G:C5'	2.40	0.51
33:BD:79:VAL:HG12	33:BD:79:VAL:O	2.08	0.51
35:BF:3:GLU:HG3	35:BF:19:GLU:HB2	1.92	0.51
38:BI:12:LEU:HD23	38:BI:12:LEU:N	2.25	0.51
38:BI:98:ALA:CA	38:BI:109:ILE:HD13	2.40	0.51
38:BI:120:ILE:HG23	38:BI:126:TYR:CE1	2.45	0.51
39:BN:40:PRO:CA	46:BU:64:ARG:HH22	2.24	0.51
44:BS:34:HIS:CB	44:BS:53:SER:HB2	2.38	0.51
45:BT:93:ARG:O	45:BT:94:ALA:O	2.27	0.51
1:CA:307:C:C5	1:CA:308:C:C5	2.98	0.51
1:CA:432:A:C8	1:CA:433:C:C5	2.99	0.51
1:CA:541:G:C4	1:CA:542:G:C8	2.98	0.51
1:CA:563:A:C5	1:CA:567:G:C4	2.99	0.51
1:CA:581:G:N1	1:CA:759:A:OP2	2.34	0.51
1:CA:654:G:C2	1:CA:753:A:C4	2.98	0.51
1:CA:921:U:O2'	1:CA:922:G:O4'	2.28	0.51
1:CA:985:C:H2'	1:CA:986:A:H8	1.75	0.51
1:CA:1081:G:P	5:CE:16:THR:HG1	2.34	0.51
1:CA:1250:A:H2	1:CA:1370:G:H1'	1.75	0.51
1:CA:1334:G:OP2	1:CA:1334:G:C8	2.62	0.51
13:CM:75:ALA:O	13:CM:79:LYS:HG3	2.09	0.51
13:CM:97:PRO:O	13:CM:98:VAL:HG13	2.11	0.51
15:CO:52:SER:O	15:CO:55:GLY:N	2.43	0.51
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.93	0.51
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.11	0.51
24:D2:29:LYS:O	24:D2:33:MET:SD	2.69	0.51
31:DA:17:G:H2'	31:DA:18:C:C6	2.45	0.51
31:DA:451:C:N4	31:DA:454:A:H5'	2.25	0.51
31:DA:614:U:O2	31:DA:614:U:O5'	2.28	0.51
31:DA:692:C:C2	31:DA:771:G:C2	2.98	0.51
31:DA:834:C:O2'	31:DA:835:A:H5'	2.10	0.51
31:DA:2000:G:OP2	43:DR:3:HIS:CE1	2.64	0.51
31:DA:2016:U:H2'	31:DA:2017:U:H6	1.72	0.51
31:DA:2071:A:H2	31:DA:2440:C:H41	1.58	0.51
31:DA:2092:U:H4'	31:DA:2093:G:C5'	2.41	0.51
31:DA:2297:C:N3	31:DA:2320:A:C8	2.79	0.51
31:DA:2472:G:H2'	31:DA:2529:G:N2	2.24	0.51
31:DA:2632:A:N3	34:DE:61:ARG:NH1	2.58	0.51
31:DA:2653:U:H3	31:DA:2667:C:N4	2.08	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:21:G:O2'	32:DB:22:U:OP2	2.29	0.51
33:DD:255:LYS:NZ	33:DD:255:LYS:N	2.59	0.51
37:DH:52:VAL:CG1	37:DH:69:ARG:HG3	2.40	0.51
38:DI:46:ALA:O	38:DI:49:ALA:HB3	2.10	0.51
38:DI:117:GLU:HG3	38:DI:118:LYS:N	2.25	0.51
45:DT:65:LYS:HG3	45:DT:66:VAL:H	1.76	0.51
49:DX:61:GLY:O	49:DX:70:LEU:HB3	2.10	0.51
1:AA:51:A:C6	1:AA:353:A:C2	2.97	0.51
1:AA:109:A:H2'	1:AA:326:G:H21	1.73	0.51
1:AA:437:U:O3'	4:AD:125:HIS:NE2	2.44	0.51
1:AA:490:G:OP2	4:AD:132:ARG:NH2	2.42	0.51
1:AA:875:C:H3'	1:AA:876:G:H5''	1.93	0.51
1:AA:978:A:H5''	1:AA:979:C:OP2	2.11	0.51
1:AA:1084:G:OP1	1:AA:1086:U:C6	2.63	0.51
1:AA:1438:G:C4	1:AA:1439:C:C5	2.99	0.51
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.91	0.51
13:AM:3:ARG:HH22	36:BG:139:LEU:HB2	1.76	0.51
14:AN:24:CYS:HB2	14:AN:29:ARG:HB3	1.92	0.51
14:AN:41:ARG:HG3	14:AN:42:ILE:N	2.23	0.51
17:AQ:45:HIS:HB2	17:AQ:65:ILE:HG12	1.91	0.51
22:B0:1:MET:HA	31:BA:2451:A:H4'	1.93	0.51
23:B1:11:ARG:CB	23:B1:12:PRO:HD3	2.40	0.51
27:B5:2:ALA:N	31:BA:2014:A:HO2'	2.08	0.51
27:B5:41:PRO:HG2	27:B5:44:THR:OG1	2.11	0.51
31:BA:58:G:OP1	49:BX:72:LYS:HB2	2.11	0.51
31:BA:271(K):U:O2'	31:BA:271(L):U:OP1	2.27	0.51
31:BA:384:U:H2'	31:BA:385:C:C6	2.45	0.51
31:BA:553:G:C5	31:BA:554:U:C5	2.99	0.51
31:BA:659:C:H1'	35:BF:102:PRO:CD	2.40	0.51
31:BA:996:A:N6	31:BA:1160:G:C6	2.78	0.51
31:BA:1128:A:O2'	31:BA:2490:G:OP1	2.29	0.51
31:BA:1786:A:C2	31:BA:2606:C:H1'	2.45	0.51
31:BA:1795:C:H2'	31:BA:1796:U:H6	1.76	0.51
31:BA:2445:G:OP1	35:BF:74:ARG:NH2	2.44	0.51
32:BB:15:A:O2'	32:BB:110:G:C8	2.59	0.51
33:BD:133:LEU:HD13	33:BD:173:VAL:HG11	1.92	0.51
33:BD:231:HIS:ND1	33:BD:232:PRO:HD2	2.26	0.51
34:BE:93:VAL:N	34:BE:95:ILE:CD1	2.72	0.51
35:BF:53:THR:HG23	35:BF:56:GLU:HB2	1.93	0.51
39:BN:91:LEU:CA	39:BN:95:PRO:HB3	2.31	0.51
40:BO:101:PRO:HG3	45:BT:67:SER:HB3	1.93	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:52:SER:HB2	44:BS:55:ALA:HB3	1.93	0.51
45:BT:30:VAL:HG21	45:BT:83:ILE:HG13	1.92	0.51
47:BV:60:GLU:OE1	47:BV:101:GLY:CA	2.57	0.51
50:BY:15:VAL:CG1	50:BY:16:ALA:N	2.73	0.51
50:BY:63:LYS:O	50:BY:64:GLU:O	2.29	0.51
1:CA:376:G:O2'	1:CA:377:G:H5'	2.10	0.51
1:CA:429:U:H4'	1:CA:430:A:O5'	2.09	0.51
1:CA:927:G:OP2	1:CA:1503:A:C4	2.64	0.51
1:CA:963:G:H21	10:CJ:55:LYS:HE2	1.76	0.51
1:CA:1094:G:HO2'	1:CA:1108:G:N2	2.08	0.51
4:CD:18:LYS:CD	4:CD:33:MET:HG2	2.29	0.51
5:CE:36:ASP:O	5:CE:37:ARG:HB2	2.11	0.51
16:CP:38:TYR:O	16:CP:39:TYR:HB2	2.11	0.51
24:D2:46:GLN:C	24:D2:48:HIS:N	2.62	0.51
27:D5:22:HIS:HD2	31:DA:2046:G:O2'	1.94	0.51
27:D5:55:ARG:CG	27:D5:56:LYS:H	2.23	0.51
28:D6:9:LEU:HD13	28:D6:9:LEU:C	2.30	0.51
30:D8:6:THR:HG22	30:D8:62:LEU:HD12	1.92	0.51
31:DA:292:C:O2'	31:DA:293:U:H5'	2.10	0.51
31:DA:389:G:H22	41:DP:72:PRO:HD3	1.74	0.51
31:DA:721:C:H3'	31:DA:722:A:H8	1.76	0.51
31:DA:747:U:O3'	48:DW:89:ALA:HB3	2.11	0.51
31:DA:901:A:H5'	31:DA:902:C:OP2	2.10	0.51
31:DA:958:U:C5'	42:DQ:14:ARG:HD3	2.40	0.51
31:DA:985:C:H2'	31:DA:986:C:C6	2.45	0.51
31:DA:1187:G:H5''	47:DV:82:ARG:CZ	2.40	0.51
31:DA:1473:G:C5	31:DA:1474:C:C4	2.99	0.51
31:DA:1509(B):A:H3'	31:DA:1510:G:C8	2.42	0.51
31:DA:1579:A:H2'	31:DA:1580:A:C8	2.46	0.51
31:DA:1665:A:O2'	31:DA:1666:G:H5'	2.11	0.51
31:DA:1694:C:O2	31:DA:1694:C:H2'	2.10	0.51
31:DA:2241:A:O2'	31:DA:2242:G:H5'	2.10	0.51
31:DA:2319:G:C2	31:DA:2320:A:N1	2.78	0.51
31:DA:2552:U:O2	31:DA:2554:U:H5'	2.09	0.51
31:DA:2652:C:H2'	31:DA:2653:U:C5'	2.39	0.51
33:DD:211:ARG:O	33:DD:215:LEU:HG	2.10	0.51
35:DF:203:GLN:O	35:DF:206:ILE:C	2.48	0.51
42:DQ:111:GLU:O	42:DQ:115:MET:HB2	2.10	0.51
44:DS:101:LEU:HD13	44:DS:102:ALA:H	1.75	0.51
49:DX:57:LEU:N	49:DX:57:LEU:CD1	2.74	0.51
50:DY:34:LYS:O	50:DY:35:TYR:CB	2.58	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:49:U:C4	1:AA:364:A:C5	2.98	0.51
1:AA:160:A:H61	1:AA:347:G:H1'	1.75	0.51
1:AA:233:C:H2'	1:AA:234:C:C6	2.35	0.51
1:AA:361:G:H2'	1:AA:362:G:O4'	2.10	0.51
1:AA:396:G:H2'	1:AA:398:C:OP1	2.10	0.51
1:AA:408:A:H5'	4:AD:116:GLN:HB2	1.91	0.51
1:AA:538:G:OP1	12:AL:115:LYS:HB2	2.11	0.51
1:AA:563:A:C5	1:AA:567:G:C4	2.99	0.51
1:AA:728:A:C6	15:AO:54:ARG:HD2	2.46	0.51
1:AA:872:A:C4	1:AA:874:G:N7	2.79	0.51
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.38	0.51
1:AA:923:A:N6	1:AA:1392:G:O6	2.44	0.51
1:AA:1058:G:H2'	1:AA:1059:C:O4'	2.10	0.51
1:AA:1088:G:C4	1:AA:1089:G:C8	2.99	0.51
1:AA:1304:G:C6	1:AA:1305:G:N1	2.79	0.51
1:AA:1419:G:O2'	31:BA:1949:G:O2'	2.28	0.51
1:AA:1473:A:O2'	1:AA:1474:G:H5'	2.10	0.51
1:AA:1480:G:C6	1:AA:1481:U:C4	2.98	0.51
2:AB:22:LYS:HZ3	2:AB:40:HIS:HE1	1.58	0.51
2:AB:210:SER:O	2:AB:214:ILE:HG12	2.11	0.51
3:AC:111:LEU:HD11	3:AC:145:GLY:O	2.11	0.51
8:AH:86:ILE:HG22	8:AH:87:SER:N	2.25	0.51
11:AK:82:VAL:HB	11:AK:108:ILE:HG12	1.93	0.51
12:AL:60:LEU:CD2	12:AL:66:VAL:HG22	2.33	0.51
13:AM:4:ILE:HG13	13:AM:10:PRO:HD2	1.93	0.51
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.90	0.51
20:AT:29:LYS:O	20:AT:33:ILE:HG12	2.11	0.51
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.11	0.51
24:B2:50:ILE:O	24:B2:51:ARG:HB3	2.11	0.51
31:BA:31:C:H2'	31:BA:32:C:O4'	2.10	0.51
31:BA:340:A:H2'	31:BA:341:G:H5'	1.93	0.51
31:BA:637:A:OP1	41:BP:133:SER:CB	2.58	0.51
31:BA:817:C:C4	31:BA:818:G:C5	2.99	0.51
31:BA:1262:A:C5	31:BA:1263:U:C5	2.99	0.51
31:BA:1493:C:C5	31:BA:2206:G:O2'	2.61	0.51
31:BA:1859:A:H8	31:BA:1859:A:O5'	1.93	0.51
31:BA:2081:C:H2'	31:BA:2082:A:C8	2.46	0.51
31:BA:2308:G:C2	31:BA:2309:A:C6	2.99	0.51
31:BA:2400:G:N3	31:BA:2400:G:H2'	2.25	0.51
31:BA:2515:C:O2	31:BA:2570:G:C2	2.64	0.51
31:BA:2636:U:H3	31:BA:2782:G:H1	1.57	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2803:C:H2'	31:BA:2804:C:O4'	2.10	0.51
32:BB:109:C:H5'	32:BB:110:G:O5'	2.10	0.51
32:BB:117:G:N3	32:BB:118:G:C8	2.79	0.51
33:BD:70:TRP:C	33:BD:70:TRP:CD1	2.83	0.51
34:BE:7:VAL:HG22	34:BE:7:VAL:O	2.09	0.51
38:BI:52:ARG:O	38:BI:56:LYS:N	2.44	0.51
39:BN:25:ARG:CG	39:BN:25:ARG:NH1	2.67	0.51
40:BO:87:ILE:CG2	40:BO:88:ASN:N	2.73	0.51
42:BQ:57:HIS:O	42:BQ:57:HIS:CG	2.63	0.51
43:BR:8:ARG:HA	43:BR:8:ARG:HE	1.75	0.51
44:BS:42:ASP:C	44:BS:44:LYS:H	2.13	0.51
45:BT:40:THR:O	45:BT:41:ARG:HB2	2.11	0.51
47:BV:18:LEU:HD22	47:BV:19:LYS:CA	2.39	0.51
51:BZ:6:LYS:HB3	51:BZ:8:TYR:CE1	2.46	0.51
1:CA:117:G:C2'	1:CA:118:U:H5'	2.41	0.51
1:CA:243:A:C2	1:CA:246:A:C8	2.99	0.51
1:CA:392:G:O3'	16:CP:13:HIS:CE1	2.64	0.51
1:CA:602:A:N1	1:CA:637:G:C6	2.79	0.51
1:CA:659:U:H2'	1:CA:660:G:C5'	2.35	0.51
1:CA:836:G:C6	1:CA:851:G:C5	2.99	0.51
1:CA:1049:U:H4'	1:CA:1050:G:C5'	2.41	0.51
1:CA:1125:U:H2'	1:CA:1126:U:OP2	2.10	0.51
1:CA:1323:G:H2'	1:CA:1324:A:O4'	2.11	0.51
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.46	0.51
8:CH:44:PHE:HD1	8:CH:79:VAL:HG12	1.75	0.51
10:CJ:16:LEU:HD13	10:CJ:70:ARG:HE	1.75	0.51
15:CO:64:ARG:NH1	15:CO:88:ARG:NH1	2.59	0.51
17:CQ:84:LEU:O	17:CQ:87:LYS:HB2	2.10	0.51
27:D5:7:PRO:HA	31:DA:2615:U:N1	2.25	0.51
27:D5:25:LEU:HD12	48:DW:19:LEU:HB3	1.92	0.51
28:D6:22:ALA:HB2	28:D6:39:TYR:CE2	2.46	0.51
28:D6:23:THR:HG21	31:DA:2419:U:H4'	1.93	0.51
29:D7:8:ASN:ND2	29:D7:10:ARG:H	2.08	0.51
31:DA:76:C:O2'	31:DA:77:C:H5'	2.10	0.51
31:DA:78:A:H2'	31:DA:79:G:C8	2.46	0.51
31:DA:269:U:H2'	31:DA:269:U:O2	2.10	0.51
31:DA:485:C:O2'	31:DA:486:C:H5'	2.11	0.51
31:DA:637:A:OP1	41:DP:133:SER:HB3	2.11	0.51
31:DA:864:G:O2'	31:DA:865:C:H5'	2.11	0.51
31:DA:867:C:C5	31:DA:868:U:C4	2.98	0.51
31:DA:932:G:H4'	31:DA:933:A:O5'	2.11	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1421:G:C2	31:DA:1422:G:C8	2.98	0.51
31:DA:1778:U:O4	31:DA:1784:A:H1'	2.11	0.51
31:DA:2631:G:N3	31:DA:2810:A:H2	2.08	0.51
31:DA:2656:U:N3	31:DA:2665:A:H2	1.98	0.51
31:DA:2663:G:C8	31:DA:2664:G:C5	2.99	0.51
31:DA:2666:C:N4	37:DH:109:PHE:HA	2.25	0.51
31:DA:2836:U:H6	31:DA:2836:U:O5'	1.94	0.51
33:DD:35:LYS:NZ	33:DD:64:ILE:O	2.37	0.51
33:DD:48:ARG:HG3	33:DD:48:ARG:HH11	1.74	0.51
33:DD:63:ARG:HG3	33:DD:63:ARG:NH1	2.26	0.51
33:DD:255:LYS:H	33:DD:255:LYS:HZ1	1.59	0.51
36:DG:134:GLY:HA2	36:DG:156:ASP:HA	1.91	0.51
40:DO:9:GLU:HB3	40:DO:83:ALA:HB2	1.91	0.51
40:DO:34:THR:HG22	40:DO:37:ASP:OD2	2.11	0.51
41:DP:119:GLU:HA	41:DP:119:GLU:OE1	2.10	0.51
47:DV:68:LYS:HG3	47:DV:68:LYS:O	2.10	0.51
49:DX:34:ALA:O	49:DX:36:LYS:HG3	2.10	0.51
1:AA:22:G:C6	1:AA:23:C:C4	2.99	0.51
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.76	0.51
1:AA:189(B):C:O2'	1:AA:189(C):C:H5'	2.11	0.51
1:AA:223:U:H2'	1:AA:224:C:C6	2.45	0.51
1:AA:376:G:P	16:AP:67:THR:HG21	2.51	0.51
1:AA:562:C:C4	1:AA:884:U:C5	2.98	0.51
1:AA:985:C:C2	1:AA:1221:G:N2	2.79	0.51
1:AA:1049:U:H4'	1:AA:1050:G:C5'	2.41	0.51
1:AA:1485:U:H5'	31:BA:1961:C:H5'	1.91	0.51
2:AB:25:ASN:OD1	2:AB:25:ASN:C	2.49	0.51
5:AE:139:LEU:C	5:AE:141:GLN:N	2.62	0.51
9:AI:73:GLN:O	9:AI:77:ILE:HG13	2.11	0.51
11:AK:41:THR:HG22	11:AK:42:TRP:N	2.25	0.51
17:AQ:63:ARG:HG2	17:AQ:64:PRO:N	2.24	0.51
24:B2:48:HIS:NE2	31:BA:75:G:O3'	2.34	0.51
31:BA:521:G:H2'	31:BA:522:G:H8	1.75	0.51
31:BA:867:C:C6	31:BA:868:U:C5	2.99	0.51
31:BA:1039:G:N2	31:BA:1117:G:H1'	2.26	0.51
31:BA:1324:G:C2	31:BA:1331:A:C2	2.98	0.51
31:BA:1338:G:C2	31:BA:1339:G:C4	2.98	0.51
31:BA:1405:U:O2'	31:BA:1406:U:H5'	2.11	0.51
31:BA:1561:G:O2'	31:BA:1562:A:H5'	2.10	0.51
31:BA:1614:A:H2'	31:BA:1615:C:H5'	1.93	0.51
31:BA:1668:A:H4'	31:BA:1669:A:O5'	2.10	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1805:U:H2'	31:BA:1806:C:C6	2.45	0.51
31:BA:1836:C:H2'	31:BA:1837:C:H6	1.75	0.51
31:BA:2015:A:H2'	31:BA:2016:U:H5'	1.91	0.51
31:BA:2306:C:OP2	31:BA:2307:G:C8	2.64	0.51
31:BA:2517:C:C2	31:BA:2542:A:N6	2.79	0.51
31:BA:2552:U:H2'	31:BA:2554:U:H5''	1.92	0.51
31:BA:2584:U:C2'	31:BA:2585:U:H5'	2.40	0.51
31:BA:2664:G:C2'	31:BA:2665:A:O5'	2.59	0.51
31:BA:2854:G:C4	31:BA:2855:C:C5	2.98	0.51
32:BB:17:C:C2	32:BB:18:G:C8	2.99	0.51
32:BB:37:C:O2	32:BB:37:C:C2'	2.55	0.51
35:BF:195:ASP:HB3	35:BF:197:ASP:HB3	1.92	0.51
38:BI:82:ARG:HD2	38:BI:89:TYR:HH	1.75	0.51
38:BI:117:GLU:HG3	38:BI:118:LYS:N	2.25	0.51
39:BN:78:TYR:HD1	39:BN:79:PRO:CG	2.24	0.51
39:BN:128:HIS:HD2	39:BN:131:GLN:H	1.59	0.51
41:BP:83:VAL:HG23	41:BP:105:LEU:HD22	1.93	0.51
42:BQ:55:VAL:HG22	42:BQ:56:ARG:N	2.25	0.51
42:BQ:57:HIS:NE2	42:BQ:116:GLU:HG2	2.24	0.51
42:BQ:116:GLU:O	42:BQ:117:ALA:C	2.49	0.51
43:BR:33:ARG:CG	43:BR:115:GLU:HG2	2.33	0.51
47:BV:2:PHE:O	47:BV:3:ALA:HB3	2.10	0.51
51:BZ:99:TYR:CE2	51:BZ:125:LEU:HD12	2.46	0.51
1:CA:361:G:H2'	1:CA:362:G:O4'	2.11	0.51
1:CA:672:U:H4'	6:CF:80:ARG:NH1	2.26	0.51
1:CA:1215:G:C5	1:CA:1216:G:N7	2.79	0.51
6:CF:49:ALA:HB2	18:CR:78:LEU:C	2.30	0.51
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.40	0.51
9:CI:105:ASP:C	9:CI:107:ARG:H	2.13	0.51
9:CI:114:TYR:CE1	10:CJ:59:SER:HA	2.46	0.51
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.76	0.51
15:CO:55:GLY:HA2	15:CO:58:MET:CE	2.40	0.51
23:D1:11:ARG:CB	23:D1:12:PRO:CD	2.89	0.51
27:D5:22:HIS:CD2	31:DA:2046:G:O2'	2.63	0.51
31:DA:78:A:C2	31:DA:79:G:C5	2.98	0.51
31:DA:344:G:O2'	31:DA:345:A:H5'	2.11	0.51
31:DA:463:G:C6	31:DA:467:G:C6	2.99	0.51
31:DA:499:U:H2'	31:DA:500:G:O4'	2.10	0.51
31:DA:578:A:H5''	31:DA:579:G:OP2	2.11	0.51
31:DA:1374:G:H2'	31:DA:1375:C:C6	2.45	0.51
31:DA:1710:C:O2'	31:DA:1711:C:H5'	2.10	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1742:G:C8	31:DA:1743:C:C2	2.98	0.51
31:DA:1791:A:N6	31:DA:1828:G:O2'	2.43	0.51
31:DA:1824:G:OP1	33:DD:52:ARG:NH1	2.43	0.51
31:DA:1916:A:H2'	31:DA:1916:A:N3	2.26	0.51
31:DA:2283:C:C2	31:DA:2389:G:C2	2.99	0.51
31:DA:2297:C:O2'	31:DA:2298:A:H5'	2.10	0.51
31:DA:2308:G:C2	31:DA:2309:A:C6	2.99	0.51
31:DA:2655:G:N3	31:DA:2655:G:H2'	2.25	0.51
34:DE:36:ARG:NH2	34:DE:88:GLY:CA	2.73	0.51
34:DE:143:ASN:OD1	34:DE:147:PRO:HD2	2.11	0.51
35:DF:53:THR:C	35:DF:55:GLY:N	2.64	0.51
35:DF:141:ALA:O	35:DF:144:LYS:HB3	2.11	0.51
51:DZ:144:LEU:N	51:DZ:144:LEU:HD22	2.25	0.51
1:AA:124:G:H1	1:AA:237:C:H42	1.59	0.51
1:AA:276:G:C2'	1:AA:277:C:H5'	2.40	0.51
1:AA:299:G:H2'	1:AA:300:A:C8	2.45	0.51
1:AA:342:C:N3	1:AA:348:G:C2	2.79	0.51
1:AA:391:G:O3'	16:AP:8:ARG:NH2	2.44	0.51
1:AA:518:C:C4	1:AA:530:G:N7	2.79	0.51
1:AA:654:G:C2'	1:AA:655:A:H5'	2.41	0.51
1:AA:682:G:H1	1:AA:708:C:H42	1.58	0.51
1:AA:1236:A:OP1	21:AU:3:LYS:NZ	2.40	0.51
1:AA:1238:A:OP1	1:AA:1335:C:H1'	2.11	0.51
1:AA:1342:C:H1'	9:AI:124:GLN:NE2	2.20	0.51
2:AB:163:PHE:HD2	2:AB:185:ILE:HG13	1.76	0.51
3:AC:127:ARG:HD2	3:AC:127:ARG:N	2.26	0.51
4:AD:192:GLU:CD	4:AD:192:GLU:H	2.14	0.51
6:AF:100:ASN:ND2	18:AR:23:LYS:HE3	2.25	0.51
8:AH:6:ILE:CG2	8:AH:85:ARG:HH12	2.24	0.51
8:AH:10:LEU:HD13	8:AH:83:ILE:CD1	2.41	0.51
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.10	0.51
19:AS:24:ALA:O	19:AS:25:LYS:HB2	2.11	0.51
22:B0:51:VAL:HG21	22:B0:79:VAL:HG12	1.92	0.51
30:B8:35:GLN:CG	31:BA:2420:C:OP1	2.59	0.51
31:BA:372:G:O2'	31:BA:373:U:P	2.69	0.51
31:BA:590:A:H2'	31:BA:591:C:C6	2.46	0.51
31:BA:740:U:H2'	31:BA:741:G:C8	2.46	0.51
31:BA:764:A:C4	31:BA:781:A:N1	2.78	0.51
31:BA:980:A:C6	31:BA:981:A:N1	2.79	0.51
31:BA:1022:G:C6	31:BA:1141:U:C5	2.99	0.51
31:BA:1035:U:H2'	31:BA:1036:G:C8	2.46	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1403:C:H2'	31:BA:1404:C:O5'	2.11	0.51
31:BA:1484:G:C6	31:BA:1506:C:N4	2.79	0.51
31:BA:1495:A:C2'	31:BA:1496:A:N3	2.68	0.51
31:BA:1686:C:H2'	31:BA:1687:G:C5'	2.41	0.51
31:BA:1747(A):G:C3'	31:BA:1748:G:H5''	2.40	0.51
31:BA:2048:G:C6	31:BA:2049:G:C5	2.99	0.51
31:BA:2346:A:H5''	31:BA:2383:G:C1'	2.39	0.51
31:BA:2395:C:H2'	31:BA:2396:G:O4'	2.10	0.51
31:BA:2485:G:C2'	31:BA:2486:G:H5'	2.41	0.51
31:BA:2596:U:H6	31:BA:2596:U:O5'	1.94	0.51
32:BB:10:C:C4	32:BB:11:C:C5	2.98	0.51
33:BD:267:SER:O	33:BD:268:ARG:HB2	2.10	0.51
34:BE:92:THR:N	34:BE:95:ILE:HD11	2.26	0.51
35:BF:52:LYS:HB3	35:BF:56:GLU:HB3	1.92	0.51
36:BG:116:ASP:O	36:BG:117:PHE:HB3	2.10	0.51
37:BH:153:LYS:HG2	37:BH:154:PRO:N	2.26	0.51
37:BH:163:TYR:N	37:BH:163:TYR:CD1	2.78	0.51
40:BO:87:ILE:CG2	40:BO:91:LEU:HA	2.41	0.51
40:BO:105:GLU:HA	40:BO:108:GLU:HG3	1.92	0.51
40:BO:111:PHE:O	40:BO:112:MET:C	2.48	0.51
42:BQ:139:GLU:O	51:BZ:99:TYR:CE2	2.64	0.51
43:BR:63:ARG:HA	43:BR:80:PHE:CE2	2.46	0.51
46:BU:106:PHE:O	46:BU:110:VAL:HG23	2.11	0.51
47:BV:68:LYS:O	47:BV:68:LYS:HG3	2.11	0.51
50:BY:53:PRO:HB3	50:BY:57:GLN:HA	1.92	0.51
51:BZ:84:GLU:OE2	51:BZ:84:GLU:HA	2.11	0.51
51:BZ:141:VAL:HA	51:BZ:144:LEU:HD23	1.92	0.51
1:CA:20:U:O2'	1:CA:21:G:H5'	2.10	0.51
1:CA:59:A:H3'	1:CA:331:G:H22	1.76	0.51
1:CA:73:G:N2	1:CA:76:C:C2	2.79	0.51
1:CA:129(A):G:H4'	1:CA:130:A:H5''	1.93	0.51
1:CA:801:U:H2'	1:CA:802:A:C8	2.42	0.51
1:CA:1068:G:N3	1:CA:1191:A:C2	2.79	0.51
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.76	0.51
2:CB:114:ARG:O	2:CB:118:LEU:HG	2.11	0.51
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.74	0.51
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.31	0.51
12:CL:104:VAL:HG12	12:CL:105:TYR:CD2	2.46	0.51
16:CP:8:ARG:C	16:CP:9:PHE:HD2	2.14	0.51
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.11	0.51
19:CS:9:VAL:HG12	19:CS:9:VAL:O	2.11	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:42:GLY:HA3	31:DA:2331:G:O4'	2.11	0.51
23:D1:41:ARG:NH2	31:DA:205:G:C6	2.78	0.51
25:D3:47:VAL:HG11	25:D3:56:VAL:HG21	1.93	0.51
28:D6:9:LEU:HD13	28:D6:9:LEU:O	2.10	0.51
30:D8:35:GLN:CG	31:DA:2420:C:OP1	2.59	0.51
31:DA:537:C:H5'	31:DA:538:G:OP2	2.11	0.51
31:DA:676:A:H1'	31:DA:2443:C:O4'	2.10	0.51
31:DA:836:G:H2'	31:DA:837:C:H6	1.72	0.51
31:DA:975(A):G:H1'	31:DA:990:A:C2	2.46	0.51
31:DA:1035:U:H2'	31:DA:1036:G:C8	2.46	0.51
31:DA:1603:A:H2'	31:DA:1604:C:O4'	2.11	0.51
31:DA:1658:C:H2'	31:DA:1659:U:C6	2.46	0.51
31:DA:1773:A:C2'	31:DA:1774:C:H5'	2.41	0.51
31:DA:2437:U:H2'	31:DA:2438:U:C6	2.45	0.51
31:DA:2470:G:C2	31:DA:2471:C:C5	2.99	0.51
33:DD:35:LYS:HE2	33:DD:104:TYR:HB2	1.92	0.51
34:DE:6:GLY:HA2	34:DE:51:PHE:CZ	2.46	0.51
34:DE:65:GLY:O	34:DE:67:PHE:N	2.44	0.51
34:DE:132:HIS:O	34:DE:133:LYS:HG3	2.11	0.51
35:DF:36:VAL:HA	35:DF:101:LEU:CD2	2.41	0.51
36:DG:60:LEU:HD13	36:DG:60:LEU:C	2.30	0.51
36:DG:116:ASP:O	36:DG:117:PHE:HB3	2.10	0.51
36:DG:125:PHE:HB3	36:DG:166:ASP:HB2	1.93	0.51
36:DG:139:LEU:HA	36:DG:144:ILE:HG23	1.91	0.51
37:DH:130:ARG:CZ	37:DH:130:ARG:HB2	2.39	0.51
39:DN:58:ASP:C	39:DN:60:ILE:H	2.14	0.51
40:DO:63:VAL:HG11	40:DO:85:VAL:CG2	2.40	0.51
41:DP:79:ARG:HH22	41:DP:109:GLY:HA2	1.73	0.51
45:DT:33:LYS:CB	45:DT:41:ARG:HB3	2.34	0.51
48:DW:18:ARG:NH1	48:DW:18:ARG:CG	2.70	0.51
51:DZ:63:ASP:C	51:DZ:65:GLN:H	2.13	0.51
1:AA:392:G:O3'	16:AP:13:HIS:CE1	2.64	0.51
1:AA:552:U:H2'	1:AA:553:A:H5'	1.93	0.51
1:AA:1072:G:C6	1:AA:1104:G:C6	2.99	0.51
1:AA:1160:G:N2	1:AA:1161:C:C6	2.78	0.51
1:AA:1190:G:H3'	3:AC:3:ASN:ND2	2.26	0.51
3:AC:121:ALA:HB2	3:AC:198:VAL:HG21	1.92	0.51
4:AD:67:ILE:HG22	4:AD:68:TYR:CD1	2.46	0.51
12:AL:43:VAL:HG22	12:AL:55:VAL:CG2	2.34	0.51
12:AL:119:LYS:C	12:AL:120:TYR:CD1	2.84	0.51
17:AQ:29:HIS:N	17:AQ:33:GLY:O	2.37	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:46:LEU:HA	31:BA:396:G:O3'	2.11	0.51
30:B8:31:HIS:CD2	31:BA:2419:U:O4	2.64	0.51
31:BA:464:U:C2'	31:BA:465:G:H5'	2.41	0.51
31:BA:816:C:O2'	31:BA:932:G:O6	2.29	0.51
31:BA:817:C:H2'	31:BA:818:G:O4'	2.11	0.51
31:BA:1349:A:N6	31:BA:1598:C:H42	2.09	0.51
31:BA:1487:G:C2	31:BA:1488:G:C4	2.99	0.51
31:BA:1509(B):A:C4	31:BA:1510:G:C8	2.99	0.51
31:BA:1591:G:C2'	31:BA:1592:C:H5'	2.40	0.51
31:BA:1803:A:C8	31:BA:1804:C:C5	2.99	0.51
31:BA:2197:U:H1'	31:BA:2198:A:C8	2.46	0.51
31:BA:2291:U:H2'	31:BA:2292:C:C6	2.46	0.51
31:BA:2409:G:C6	31:BA:2410:G:C5	2.98	0.51
31:BA:2442:C:H2'	31:BA:2443:C:H6	1.75	0.51
31:BA:2572:A:C8	34:BE:144:ARG:HB3	2.46	0.51
31:BA:2774:C:H2'	31:BA:2775:A:O4'	2.11	0.51
31:BA:2790:A:H2'	31:BA:2791:C:C5'	2.40	0.51
31:BA:2811:G:OP1	34:BE:60:ASN:HB3	2.10	0.51
31:BA:2836:U:O5'	31:BA:2836:U:H6	1.93	0.51
32:BB:26:A:C5	32:BB:27:C:H5	2.29	0.51
34:BE:60:ASN:OD1	34:BE:62:PRO:HD2	2.11	0.51
34:BE:160:TYR:HD2	34:BE:161:GLY:N	2.09	0.51
34:BE:171:GLU:O	34:BE:184:VAL:HA	2.11	0.51
35:BF:7:TYR:HD2	35:BF:16:GLY:HA3	1.74	0.51
35:BF:160:ASN:C	35:BF:160:ASN:ND2	2.58	0.51
38:BI:88:ILE:CG1	38:BI:121:LYS:HA	2.27	0.51
39:BN:3:THR:HG22	39:BN:5:VAL:H	1.76	0.51
39:BN:23:LEU:HD13	39:BN:98:VAL:HG12	1.92	0.51
39:BN:40:PRO:C	46:BU:64:ARG:NH2	2.58	0.51
42:BQ:41:TRP:HB3	42:BQ:94:VAL:CB	2.40	0.51
45:BT:26:ASP:HA	45:BT:48:ILE:HA	1.92	0.51
45:BT:67:SER:O	45:BT:69:GLY:N	2.44	0.51
1:CA:20:U:C2'	1:CA:21:G:H5'	2.40	0.51
1:CA:78:G:H22	1:CA:91:C:H42	1.58	0.51
1:CA:617:G:H1	1:CA:623:C:H42	1.59	0.51
1:CA:734:G:H2'	1:CA:735:C:C6	2.45	0.51
1:CA:921:U:H2'	1:CA:922:G:OP2	2.11	0.51
1:CA:1081:G:P	5:CE:16:THR:OG1	2.69	0.51
1:CA:1410:G:O2'	1:CA:1411:C:H5'	2.10	0.51
3:CC:14:ILE:HG23	3:CC:15:THR:N	2.26	0.51
5:CE:126:ARG:HG3	5:CE:126:ARG:NH1	2.17	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:65:ALA:HB1	7:CG:127:ALA:HB3	1.92	0.51
8:CH:10:LEU:N	8:CH:10:LEU:CD2	2.74	0.51
12:CL:32:PHE:CB	12:CL:84:LEU:HD21	2.40	0.51
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.76	0.51
14:CN:24:CYS:SG	14:CN:40:CYS:HB3	2.50	0.51
19:CS:51:VAL:HG11	19:CS:71:LEU:O	2.11	0.51
23:D1:37:ILE:HD12	31:DA:2079:U:O2'	2.10	0.51
28:D6:27:LYS:HG3	31:DA:2285:C:H5''	1.93	0.51
30:D8:32:LEU:HD23	30:D8:35:GLN:O	2.11	0.51
31:DA:92:A:H2'	31:DA:93:G:C8	2.45	0.51
31:DA:483:A:C8	31:DA:484:C:C5	2.99	0.51
31:DA:541:C:H2'	31:DA:542:C:C6	2.46	0.51
31:DA:690:G:H4'	31:DA:780:G:OP1	2.11	0.51
31:DA:827:U:O2	31:DA:2246:G:H4'	2.11	0.51
31:DA:847:U:OP2	31:DA:928:G:O6	2.28	0.51
31:DA:1141:U:H4'	31:DA:1142(A):A:O4'	2.11	0.51
31:DA:1198:U:O2	31:DA:1249:U:H1'	2.11	0.51
31:DA:1341:U:O4	49:DX:16:LYS:HE3	2.11	0.51
31:DA:1468:C:C2	31:DA:1525:G:C2	2.99	0.51
31:DA:1570:A:H2'	31:DA:1571:A:C8	2.45	0.51
31:DA:1882:C:O2	31:DA:1882:C:C2'	2.51	0.51
31:DA:2053:G:H1	31:DA:2616:C:N4	2.08	0.51
31:DA:2103:C:H2'	31:DA:2104:G:O4'	2.10	0.51
31:DA:2259:G:C2	31:DA:2282:G:N1	2.79	0.51
31:DA:2575:C:H2'	31:DA:2578:G:O6	2.11	0.51
31:DA:2599:G:H8	33:DD:236:GLY:HA2	1.76	0.51
31:DA:2741:A:H2'	31:DA:2742:C:O4'	2.10	0.51
32:DB:57:A:H8	36:DG:27:ASN:HB3	1.76	0.51
33:DD:182:LEU:HB3	33:DD:271:ILE:CD1	2.41	0.51
34:DE:3:GLY:HA3	34:DE:81:ILE:HG21	1.93	0.51
35:DF:3:GLU:HA	35:DF:24:LEU:HB3	1.92	0.51
35:DF:31:HIS:HB2	41:DP:13:ASN:HB3	1.91	0.51
35:DF:78:ILE:H	35:DF:78:ILE:HD13	1.76	0.51
35:DF:119:ARG:CZ	35:DF:119:ARG:HB3	2.40	0.51
36:DG:16:ARG:O	36:DG:20:ILE:HG13	2.10	0.51
37:DH:40:GLU:O	37:DH:41:MET:CB	2.59	0.51
39:DN:18:ALA:HB3	39:DN:26:LEU:CD2	2.33	0.51
39:DN:30:ILE:HG21	39:DN:120:LEU:HD21	1.92	0.51
42:DQ:8:LYS:CG	42:DQ:9:TYR:N	2.74	0.51
42:DQ:82:ARG:O	42:DQ:83:MET:CB	2.59	0.51
1:AA:49:U:C2	1:AA:361:G:N2	2.79	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:129(A):G:H4'	1:AA:130:A:H5''	1.93	0.51
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	2.10	0.51
1:AA:307:C:C5	1:AA:308:C:C5	2.98	0.51
1:AA:831:U:O2'	1:AA:832:C:H5'	2.10	0.51
1:AA:952:U:H4'	1:AA:964:A:H61	1.76	0.51
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.11	0.51
1:AA:1133:G:N3	1:AA:1142:G:N2	2.58	0.51
1:AA:1227:A:OP2	13:AM:111:LYS:HE2	2.11	0.51
2:AB:163:PHE:HA	2:AB:185:ILE:O	2.11	0.51
3:AC:188:LEU:O	3:AC:189:ALA:HB2	2.11	0.51
4:AD:108:LEU:HD12	4:AD:108:LEU:N	2.26	0.51
8:AH:39:LEU:HD22	8:AH:39:LEU:N	2.26	0.51
15:AO:55:GLY:HA2	15:AO:58:MET:CE	2.41	0.51
23:B1:10:LYS:HG2	23:B1:11:ARG:H	1.75	0.51
27:B5:8:LYS:HD2	31:BA:2056:G:O2'	2.11	0.51
28:B6:19:ARG:CG	28:B6:20:ASN:N	2.73	0.51
28:B6:51:GLU:C	28:B6:52:VAL:HG23	2.31	0.51
30:B8:59:LYS:HD3	41:BP:50:ARG:CB	2.37	0.51
31:BA:25:U:H2'	31:BA:26:G:C8	2.46	0.51
31:BA:251:A:C5	31:BA:252:G:H1'	2.46	0.51
31:BA:527:C:HO2'	31:BA:2779:U:HO2'	1.55	0.51
31:BA:580:C:H2'	31:BA:581:C:H6	1.76	0.51
31:BA:985:C:O2'	31:BA:986:C:H5'	2.11	0.51
31:BA:1215:G:C2'	31:BA:1216:G:H5'	2.40	0.51
31:BA:1323:U:OP1	48:BW:98:LYS:HE3	2.10	0.51
31:BA:1351:C:H4'	31:BA:1572:A:O4'	2.11	0.51
31:BA:1519:G:H5'	31:BA:1520:G:P	2.51	0.51
31:BA:1786:A:H1'	31:BA:1938:A:H62	1.73	0.51
31:BA:1814:G:H2'	31:BA:1815:A:C8	2.45	0.51
31:BA:1949:G:H2'	31:BA:1950:G:C8	2.45	0.51
31:BA:2074:U:H2'	31:BA:2075:U:C6	2.46	0.51
31:BA:2611:U:H5'	31:BA:2611:U:C6	2.46	0.51
31:BA:2884:U:H5	31:BA:2885:C:C4	2.29	0.51
33:BD:2:ALA:HB3	33:BD:20:ASP:HB2	1.93	0.51
33:BD:32:SER:HA	33:BD:35:LYS:O	2.10	0.51
34:BE:70:ALA:O	34:BE:73:GLU:HA	2.11	0.51
35:BF:203:GLN:O	35:BF:206:ILE:C	2.49	0.51
36:BG:11:TYR:CG	36:BG:11:TYR:O	2.64	0.51
37:BH:164:TYR:CB	37:BH:166:GLY:H	2.23	0.51
38:BI:3:VAL:HA	38:BI:39:ALA:H	1.76	0.51
44:BS:73:LEU:O	44:BS:77:ALA:CB	2.59	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:26:LYS:HG2	50:BY:27:VAL:H	1.76	0.51
1:CA:60:A:H8	1:CA:60:A:P	2.34	0.51
1:CA:160:A:H61	1:CA:347:G:H1'	1.76	0.51
1:CA:509:A:C2	1:CA:510:A:C2	2.99	0.51
1:CA:564:C:O2'	8:CH:91:ARG:NH2	2.44	0.51
1:CA:774:G:H2'	1:CA:775:G:C5'	2.41	0.51
1:CA:862:C:O2'	1:CA:863:U:H5'	2.11	0.51
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.47	0.51
1:CA:1304:G:C6	1:CA:1305:G:N1	2.78	0.51
1:CA:1381:U:C2'	1:CA:1382:C:H5'	2.40	0.51
6:CF:39:LYS:O	6:CF:40:VAL:HB	2.11	0.51
8:CH:9:MET:HG2	8:CH:10:LEU:HD23	1.93	0.51
11:CK:72:ALA:O	11:CK:77:MET:HB2	2.11	0.51
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.26	0.51
20:CT:30:LYS:O	20:CT:30:LYS:HD2	2.11	0.51
20:CT:100:ILE:O	20:CT:102:GLY:N	2.44	0.51
22:D0:31:VAL:CB	22:D0:35:ASN:ND2	2.71	0.51
31:DA:271(O):C:O2	31:DA:271(P):C:C5	2.64	0.51
31:DA:296:C:O2'	31:DA:297:C:H5'	2.10	0.51
31:DA:303:U:H2'	31:DA:304:G:C8	2.46	0.51
31:DA:565:C:H4'	31:DA:1253:A:C6	2.46	0.51
31:DA:588:U:OP2	31:DA:588:U:C6	2.64	0.51
31:DA:662:G:OP1	41:DP:18:ARG:NH1	2.43	0.51
31:DA:665:C:H2'	31:DA:666:G:C8	2.46	0.51
31:DA:733:G:H8	31:DA:733:G:O5'	1.94	0.51
31:DA:1400:G:C6	31:DA:1401:G:C6	2.99	0.51
31:DA:1845:G:H2'	31:DA:1846:G:C5'	2.41	0.51
31:DA:2521:C:O2	31:DA:2521:C:C2'	2.54	0.51
31:DA:2590:A:H2'	31:DA:2591:C:H6	1.76	0.51
31:DA:2774:C:H2'	31:DA:2775:A:O4'	2.11	0.51
32:DB:65:C:H41	32:DB:109:C:C2'	2.23	0.51
34:DE:29:GLY:N	34:DE:51:PHE:HE2	2.08	0.51
37:DH:24:VAL:HB	37:DH:35:VAL:HB	1.93	0.51
38:DI:35:LEU:O	38:DI:36:ALA:HB2	2.11	0.51
38:DI:101:LEU:HD23	38:DI:109:ILE:HG21	1.92	0.51
39:DN:6:PRO:HG2	39:DN:43:THR:OG1	2.10	0.51
44:DS:42:ASP:C	44:DS:44:LYS:H	2.14	0.51
47:DV:72:VAL:O	47:DV:73:SER:CB	2.58	0.51
1:AA:38:G:H4'	1:AA:547:A:N6	2.26	0.50
1:AA:39:G:C6	1:AA:40:C:C4	2.98	0.50
1:AA:270:A:C5	1:AA:271:C:C5	2.99	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:342:C:H2'	1:AA:343:U:O4'	2.10	0.50
1:AA:538:G:P	12:AL:115:LYS:HB2	2.50	0.50
1:AA:586:C:O2'	1:AA:878:G:H4'	2.11	0.50
1:AA:640:A:C2'	1:AA:641:U:H5'	2.40	0.50
1:AA:658:G:C4	1:AA:659:U:C5	2.99	0.50
1:AA:674:G:H2'	1:AA:675:A:C8	2.46	0.50
1:AA:683:G:C2	1:AA:708:C:N3	2.79	0.50
1:AA:738:C:H2'	1:AA:739:C:H6	1.76	0.50
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.92	0.50
1:AA:1334:G:OP2	1:AA:1334:G:C8	2.65	0.50
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.11	0.50
22:B0:26:TYR:HE2	31:BA:857:C:H1'	1.76	0.50
24:B2:44:LEU:O	24:B2:47:ASN:ND2	2.44	0.50
25:B3:4:LEU:O	25:B3:36:VAL:HA	2.11	0.50
27:B5:22:HIS:CD2	31:BA:2046:G:O2'	2.64	0.50
27:B5:51:TYR:HB3	27:B5:52:TYR:CE2	2.46	0.50
28:B6:32:ASN:O	28:B6:33:LYS:HB2	2.11	0.50
29:B7:16:HIS:HB3	29:B7:44:PRO:HG2	1.94	0.50
31:BA:648:G:C2'	31:BA:649:G:H5'	2.40	0.50
31:BA:815:C:H2'	31:BA:816:C:H6	1.76	0.50
31:BA:960:A:C8	31:BA:962:G:C8	2.99	0.50
31:BA:1280:G:C6	31:BA:1281:G:C5	3.00	0.50
31:BA:1320:C:H4'	31:BA:1321:A:OP1	2.10	0.50
31:BA:1505:C:C6	31:BA:1505:C:C3'	2.94	0.50
31:BA:1570:A:H2'	31:BA:1571:A:C8	2.46	0.50
31:BA:1721:G:H5'	31:BA:1722:A:OP2	2.11	0.50
31:BA:2022:U:HO2'	31:BA:2617:C:H5'	1.74	0.50
31:BA:2099:U:H3	31:BA:2190:G:H1	1.59	0.50
31:BA:2442:C:H2'	31:BA:2443:C:C6	2.46	0.50
31:BA:2580:U:O2	31:BA:2580:U:H2'	2.10	0.50
31:BA:2652:C:H2'	31:BA:2653:U:C5'	2.38	0.50
31:BA:2741:A:H2'	31:BA:2742:C:O4'	2.11	0.50
31:BA:2809:A:C2'	31:BA:2810:A:H5'	2.40	0.50
31:BA:2829:C:C3'	31:BA:2830:G:H5''	2.40	0.50
33:BD:150:LYS:HA	33:BD:150:LYS:HE3	1.94	0.50
35:BF:9:ILE:HG12	35:BF:14:PRO:C	2.31	0.50
36:BG:120:LEU:O	36:BG:181:ARG:HB2	2.12	0.50
36:BG:141:PHE:O	36:BG:143:GLU:N	2.44	0.50
37:BH:70:THR:HG22	37:BH:74:ASN:HD21	1.75	0.50
37:BH:99:VAL:HG12	37:BH:99:VAL:O	2.10	0.50
37:BH:130:ARG:CZ	37:BH:130:ARG:HB2	2.41	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:84:GLY:O	38:BI:85:GLU:CB	2.59	0.50
39:BN:66:LYS:O	39:BN:68:GLU:N	2.44	0.50
40:BO:69:ILE:HD12	40:BO:69:ILE:N	2.27	0.50
43:BR:2:ARG:HB2	43:BR:5:LYS:HE3	1.93	0.50
45:BT:28:VAL:HG21	45:BT:46:GLU:CG	2.41	0.50
47:BV:36:PRO:HD2	47:BV:60:GLU:O	2.11	0.50
49:BX:78:LYS:HD3	49:BX:78:LYS:H	1.76	0.50
1:CA:47:C:O2	1:CA:49:U:C4	2.65	0.50
1:CA:328:C:O2	1:CA:328:C:C2'	2.58	0.50
1:CA:509:A:H5''	4:CD:55:ALA:HB2	1.92	0.50
1:CA:577:G:N3	1:CA:578:C:C6	2.79	0.50
1:CA:805:C:O2'	1:CA:806:C:H5'	2.11	0.50
1:CA:1462:G:H2'	1:CA:1463:C:C6	2.46	0.50
2:CB:173:ALA:HA	2:CB:176:GLU:HG3	1.92	0.50
4:CD:190:ASP:O	4:CD:191:ARG:C	2.48	0.50
9:CI:114:TYR:CE1	10:CJ:60:ARG:O	2.64	0.50
11:CK:48:ILE:HG21	11:CK:63:LEU:HD13	1.93	0.50
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.93	0.50
22:D0:74:ARG:HH22	32:DB:13:A:C5'	2.24	0.50
27:D5:36:CYS:HB2	27:D5:49:CYS:SG	2.51	0.50
27:D5:40:LYS:HZ2	27:D5:46:CYS:H	1.59	0.50
30:D8:29:LYS:O	30:D8:32:LEU:N	2.43	0.50
30:D8:34:TRP:O	30:D8:35:GLN:CB	2.51	0.50
31:DA:36:G:C6	31:DA:37:C:C4	2.99	0.50
31:DA:117:G:C6	31:DA:119:A:C6	2.99	0.50
31:DA:628:G:C6	31:DA:629:G:C6	2.98	0.50
31:DA:745:G:C2'	31:DA:746:A:H5'	2.41	0.50
31:DA:848:G:H5'	31:DA:848:G:C8	2.43	0.50
31:DA:902:C:O2'	31:DA:903:C:H5'	2.11	0.50
31:DA:962:G:C2'	31:DA:963:U:H5'	2.42	0.50
31:DA:975:C:H2'	31:DA:975:C:O2	2.11	0.50
31:DA:1394:U:C4	31:DA:1395:A:C5	2.98	0.50
31:DA:1659:U:C2'	31:DA:1660:C:H5'	2.41	0.50
31:DA:1940:U:C4	31:DA:1964:G:H4'	2.46	0.50
31:DA:2043:C:C2	31:DA:2044:C:C5	3.00	0.50
31:DA:2469:A:O2'	42:DQ:56:ARG:CG	2.59	0.50
31:DA:2586:C:C5	31:DA:2608:G:N2	2.79	0.50
31:DA:2658:C:O2	31:DA:2658:C:C2'	2.58	0.50
31:DA:2808:U:C2'	31:DA:2809:A:C5'	2.88	0.50
55:DA:3320:TEL:C14	55:DA:3320:TEL:O5	2.30	0.50
33:DD:209:ALA:C	33:DD:210:GLY:O	2.49	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:83:TYR:O	37:DH:84:SER:OG	2.26	0.50
37:DH:164:TYR:C	37:DH:166:GLY:H	2.13	0.50
39:DN:40:PRO:CB	46:DU:68:ALA:HB2	2.41	0.50
39:DN:56:ASN:HA	39:DN:125:GLY:H	1.75	0.50
39:DN:56:ASN:HA	39:DN:125:GLY:N	2.26	0.50
40:DO:101:PRO:HD2	45:DT:70:VAL:CG2	2.41	0.50
41:DP:96:THR:HG22	41:DP:126:VAL:HG23	1.92	0.50
42:DQ:82:ARG:O	42:DQ:83:MET:HB2	2.12	0.50
47:DV:5:VAL:HG21	47:DV:36:PRO:HG2	1.92	0.50
47:DV:83:ARG:HH11	47:DV:83:ARG:HG3	1.75	0.50
1:AA:80:G:N1	1:AA:89:C:N4	2.57	0.50
1:AA:104:G:O2'	1:AA:105:G:H5'	2.11	0.50
1:AA:166:G:H2'	1:AA:167:G:C8	2.44	0.50
1:AA:331:G:OP1	1:AA:332:G:H8	1.94	0.50
1:AA:358:U:C2'	1:AA:359:U:O5'	2.60	0.50
1:AA:397:A:C6	1:AA:548:G:N7	2.80	0.50
1:AA:659:U:H2'	1:AA:659:U:O2	2.11	0.50
1:AA:818:G:N1	1:AA:820:U:O2'	2.44	0.50
1:AA:963:G:H21	10:AJ:55:LYS:HE2	1.76	0.50
1:AA:1313:U:H3	1:AA:1324:A:H61	1.59	0.50
2:AB:219:VAL:HA	2:AB:222:ILE:CD1	2.40	0.50
4:AD:20:TYR:HD2	4:AD:26:CYS:CB	2.23	0.50
4:AD:31:CYS:SG	4:AD:31:CYS:O	2.69	0.50
4:AD:61:LYS:HD3	4:AD:62:GLN:N	2.26	0.50
4:AD:108:LEU:HD11	4:AD:174:LEU:HD22	1.93	0.50
5:AE:57:LYS:O	5:AE:61:TYR:CD2	2.64	0.50
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	1.93	0.50
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.93	0.50
13:AM:10:PRO:HG2	13:AM:18:ALA:HB1	1.93	0.50
13:AM:39:ILE:HD12	13:AM:56:LEU:HD23	1.93	0.50
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.93	0.50
19:AS:45:VAL:O	19:AS:45:VAL:HG23	2.12	0.50
24:B2:32:LEU:C	24:B2:32:LEU:HD12	2.30	0.50
31:BA:128:C:H4'	31:BA:129:C:OP1	2.11	0.50
31:BA:129:C:H6	31:BA:129:C:H5''	1.76	0.50
31:BA:527:C:OP2	31:BA:2779:U:C5	2.55	0.50
31:BA:675:A:C4	31:BA:804:A:C2	2.99	0.50
31:BA:856:C:H2'	31:BA:857:C:H6	1.76	0.50
31:BA:909:A:H2'	31:BA:912:C:C5	2.39	0.50
31:BA:1343:G:H1	31:BA:1404:C:H42	1.60	0.50
31:BA:1508:A:OP1	31:BA:1509(A):A:C2	2.63	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1568:G:OP1	33:BD:63:ARG:NH2	2.41	0.50
31:BA:1795:C:H2'	31:BA:1796:U:C6	2.46	0.50
31:BA:1884:A:C2	31:BA:1885:A:C4	3.00	0.50
31:BA:2360:A:O2'	31:BA:2361:A:H5''	2.11	0.50
31:BA:2577:A:H5''	31:BA:2578:G:H5'	1.92	0.50
31:BA:2631:G:N3	31:BA:2810:A:H2	2.10	0.50
31:BA:2811:G:H22	31:BA:2891:G:H1'	1.74	0.50
55:BA:3362:TEL:C10	55:BA:3362:TEL:C12	2.89	0.50
33:BD:24:ILE:HD11	33:BD:83:GLU:HA	1.93	0.50
35:BF:78:ILE:HD13	35:BF:78:ILE:H	1.77	0.50
35:BF:158:THR:HG23	35:BF:160:ASN:H	1.76	0.50
35:BF:170:LEU:HD23	35:BF:172:TRP:CZ2	2.46	0.50
36:BG:16:ARG:HH11	36:BG:16:ARG:CB	2.24	0.50
41:BP:71:VAL:HG13	41:BP:72:PRO:HD3	1.90	0.50
41:BP:86:LYS:HB2	41:BP:117:GLU:O	2.11	0.50
41:BP:90:ARG:O	41:BP:91:PHE:CB	2.59	0.50
42:BQ:57:HIS:CE1	42:BQ:116:GLU:HB3	2.46	0.50
45:BT:23:ARG:CB	45:BT:24:PRO:HD2	2.33	0.50
47:BV:32:THR:HG22	47:BV:33:VAL:N	2.20	0.50
1:CA:44:G:H2'	1:CA:45:U:O4'	2.10	0.50
1:CA:49:U:C4	1:CA:364:A:C5	3.00	0.50
1:CA:159:G:H2'	1:CA:161:A:OP2	2.11	0.50
1:CA:278:G:C1'	1:CA:282:A:H1'	2.41	0.50
1:CA:421:U:N3	3:CC:127:ARG:NH1	2.59	0.50
1:CA:426:G:OP1	4:CD:38:TYR:OH	2.18	0.50
1:CA:552:U:C4'	12:CL:86:ARG:HD2	2.41	0.50
1:CA:581:G:N3	1:CA:582:U:C5	2.78	0.50
1:CA:636:U:H5'	17:CQ:2:PRO:HG3	1.92	0.50
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.12	0.50
1:CA:1064:G:H4'	1:CA:1065:U:O5'	2.12	0.50
1:CA:1096:C:C2	1:CA:1097:C:C5	2.99	0.50
1:CA:1190:G:H3'	3:CC:3:ASN:ND2	2.27	0.50
1:CA:1480:G:C5	1:CA:1481:U:C5	2.99	0.50
3:CC:77:ILE:O	3:CC:83:ARG:HB3	2.11	0.50
5:CE:101:ILE:HD13	5:CE:118:ILE:O	2.10	0.50
6:CF:44:GLY:O	6:CF:45:LEU:C	2.49	0.50
10:CJ:50:ILE:HG12	14:CN:41:ARG:HD3	1.93	0.50
12:CL:42:THR:OG1	12:CL:52:LEU:HB3	2.11	0.50
13:CM:34:LEU:CD1	13:CM:41:PRO:HG3	2.41	0.50
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.40	0.50
27:D5:58:LEU:O	27:D5:59:GLU:HB3	2.11	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:22:VAL:HB	30:D8:53:PRO:HB3	1.94	0.50
30:D8:27:THR:HA	41:DP:62:LEU:HD11	1.92	0.50
31:DA:71:A:H2	49:DX:31:HIS:NE2	2.09	0.50
31:DA:78:A:C6	31:DA:109:G:C6	2.99	0.50
31:DA:84:A:H3'	50:DY:9:LYS:HB2	1.93	0.50
31:DA:142(A):C:H2'	31:DA:143:G:O4'	2.10	0.50
31:DA:271(K):U:H2'	31:DA:271(M):G:N2	2.25	0.50
31:DA:542:C:C2'	31:DA:543:C:OP1	2.57	0.50
31:DA:725:G:O5'	31:DA:725:G:H8	1.95	0.50
31:DA:764:A:H5''	33:DD:210:GLY:CA	2.40	0.50
31:DA:997:G:O2'	31:DA:998:C:H5'	2.10	0.50
31:DA:1131:G:OP2	31:DA:2515:C:H4'	2.10	0.50
31:DA:1159:U:H2'	31:DA:1160:G:H8	1.76	0.50
31:DA:1374:G:C5	31:DA:1375:C:C4	2.99	0.50
31:DA:1429:G:C5	31:DA:1568:G:C6	2.99	0.50
31:DA:1558:A:H1'	31:DA:1559:G:OP2	2.11	0.50
31:DA:1562:A:H2'	31:DA:1563:G:C8	2.46	0.50
31:DA:1933:G:C2'	31:DA:1934:C:O5'	2.59	0.50
31:DA:2192:G:C2'	31:DA:2193:G:H5'	2.42	0.50
31:DA:2392:A:C2	31:DA:2429:G:C2	2.99	0.50
31:DA:2544:G:O2'	31:DA:2545:G:H5'	2.11	0.50
31:DA:2563:U:O2	31:DA:2565:A:H8	1.93	0.50
31:DA:2785:C:H2'	31:DA:2786:U:H6	1.75	0.50
31:DA:2811:G:H22	31:DA:2891:G:H1'	1.75	0.50
31:DA:2841:C:H2'	31:DA:2842:G:H8	1.76	0.50
31:DA:2870:C:H2'	31:DA:2871:C:C5'	2.34	0.50
32:DB:78:A:C2	32:DB:100:A:C4	2.99	0.50
33:DD:143:HIS:HD2	33:DD:144:ALA:HB2	1.76	0.50
34:DE:13:ARG:HA	34:DE:21:VAL:O	2.11	0.50
35:DF:51:THR:HG21	35:DF:92:PRO:HD2	1.93	0.50
38:DI:102:SER:N	38:DI:109:ILE:HD11	2.26	0.50
44:DS:97:ARG:O	44:DS:97:ARG:NE	2.42	0.50
45:DT:24:PRO:HA	45:DT:49:VAL:HG13	1.92	0.50
45:DT:28:VAL:HG21	45:DT:46:GLU:CD	2.32	0.50
46:DU:83:LEU:CB	46:DU:88:ILE:HD11	2.39	0.50
49:DX:36:LYS:O	49:DX:38:GLU:N	2.44	0.50
49:DX:84:ALA:C	49:DX:86:GLY:N	2.64	0.50
51:DZ:130:PRO:HA	51:DZ:133:ILE:HG13	1.93	0.50
1:AA:28:G:C6	1:AA:29:G:C5	2.99	0.50
1:AA:193:C:O2'	1:AA:194:C:H5'	2.11	0.50
1:AA:450:G:OP1	16:AP:43:LYS:NZ	2.41	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:604:G:H2'	1:AA:605:U:O4'	2.10	0.50
1:AA:651:C:O2'	1:AA:652:U:H5'	2.10	0.50
1:AA:1201:A:C1'	1:AA:1202:G:OP2	2.59	0.50
1:AA:1418:A:H5''	1:AA:1419:G:OP2	2.12	0.50
2:AB:20:GLU:HG3	2:AB:189:ASP:OD2	2.11	0.50
3:AC:106:VAL:HG12	3:AC:108:ASN:C	2.32	0.50
4:AD:134:ASP:O	4:AD:136:PRO:HD3	2.11	0.50
4:AD:205:GLU:CD	5:AE:107:ARG:HH21	2.15	0.50
6:AF:3:ARG:HD3	6:AF:64:GLN:OE1	2.10	0.50
6:AF:5:GLU:O	6:AF:7:ASN:ND2	2.44	0.50
7:AG:50:ILE:O	7:AG:54:THR:O	2.29	0.50
10:AJ:30:SER:HB2	10:AJ:80:LYS:HG3	1.92	0.50
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.92	0.50
12:AL:38:THR:HG21	12:AL:65:GLU:OE2	2.11	0.50
16:AP:70:ALA:O	16:AP:74:LEU:HG	2.10	0.50
18:AR:74:ARG:HG3	18:AR:79:LEU:CB	2.37	0.50
19:AS:6:LYS:N	19:AS:6:LYS:HD2	2.27	0.50
31:BA:66:C:C2	31:BA:89:G:C2	3.00	0.50
31:BA:255:A:C6	31:BA:256:A:C5	2.99	0.50
31:BA:272(C):G:C2	31:BA:366:C:O2	2.64	0.50
31:BA:535:C:O3'	46:BU:53:ARG:NH1	2.44	0.50
31:BA:962:G:O2'	31:BA:963:U:H5'	2.12	0.50
31:BA:1210:A:O5'	31:BA:1212:G:H5'	2.11	0.50
31:BA:1433:U:O2'	31:BA:1434:A:H5'	2.11	0.50
31:BA:1473:G:C5	31:BA:1474:C:C4	3.00	0.50
31:BA:2061:G:N3	31:BA:2063:C:C5	2.79	0.50
31:BA:2094:G:H2'	31:BA:2094:G:N3	2.25	0.50
31:BA:2385:C:C2'	31:BA:2386:C:H5'	2.41	0.50
31:BA:2704:C:H2'	31:BA:2705:A:O4'	2.12	0.50
31:BA:2714:G:OP1	31:BA:2714:G:H8	1.94	0.50
31:BA:2889:C:H2'	31:BA:2891:G:O4'	2.12	0.50
33:BD:83:GLU:HB2	33:BD:92:ILE:CD1	2.40	0.50
34:BE:55:ASN:ND2	34:BE:75:VAL:HG21	2.26	0.50
36:BG:17:PRO:O	36:BG:21:ARG:HB3	2.11	0.50
36:BG:28:VAL:HB	36:BG:29:TRP:CD1	2.46	0.50
39:BN:28:THR:HA	39:BN:106:MET:HE2	1.94	0.50
39:BN:42:TRP:H	46:BU:64:ARG:NH2	2.09	0.50
39:BN:87:LEU:O	39:BN:87:LEU:HD23	2.12	0.50
41:BP:47:ASP:HB3	41:BP:48:PRO:CA	2.40	0.50
42:BQ:75:THR:HG21	42:BQ:85:LYS:HE3	1.93	0.50
43:BR:12:ARG:HB3	43:BR:16:HIS:HB3	1.94	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BU:31:SER:HB3	46:BU:34:LYS:HB2	1.93	0.50
47:BV:66:ARG:HD2	47:BV:68:LYS:N	2.26	0.50
47:BV:73:SER:N	47:BV:88:ARG:HH22	2.09	0.50
47:BV:75:PHE:CD1	47:BV:89:GLN:HB3	2.44	0.50
48:BW:20:VAL:CG2	48:BW:47:VAL:HG21	2.41	0.50
48:BW:47:VAL:HA	48:BW:50:VAL:HG12	1.92	0.50
1:CA:659:U:N3	1:CA:660:G:N7	2.58	0.50
1:CA:950:U:H2'	1:CA:951:G:H8	1.77	0.50
1:CA:1430:C:C5'	31:DA:1704:G:H5''	2.41	0.50
2:CB:35:GLU:HA	2:CB:39:ILE:O	2.11	0.50
3:CC:125:GLU:CD	3:CC:189:ALA:HA	2.32	0.50
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.40	0.50
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.93	0.50
17:CQ:45:HIS:HB2	17:CQ:65:ILE:HG12	1.94	0.50
20:CT:30:LYS:HG3	20:CT:34:LYS:HE3	1.94	0.50
22:D0:10:THR:HG23	31:DA:2277:G:OP2	2.10	0.50
25:D3:11:SER:HG	25:D3:13:ILE:HG12	1.75	0.50
31:DA:271(D):G:C2	31:DA:271(E):U:C2	3.00	0.50
31:DA:363(D):G:C6	31:DA:363(E):U:C4	2.99	0.50
31:DA:561:G:O2'	46:DU:45:TYR:HE2	1.94	0.50
31:DA:688:U:O2	31:DA:787:U:H4'	2.12	0.50
31:DA:1221:C:H2'	31:DA:1221(A):C:H6	1.75	0.50
31:DA:1403:C:H2'	31:DA:1404:C:O5'	2.12	0.50
31:DA:1469:A:H2'	31:DA:1470:G:H8	1.77	0.50
31:DA:1503:U:C4	31:DA:1504:C:N4	2.79	0.50
31:DA:1705:G:C5	31:DA:1706:U:C4	2.99	0.50
31:DA:1754:C:H2'	31:DA:1755:A:O4'	2.11	0.50
31:DA:2051:A:H5'	31:DA:2578:G:O4'	2.10	0.50
31:DA:2600:A:H2'	31:DA:2601:C:H6	1.74	0.50
33:DD:35:LYS:N	33:DD:64:ILE:HG23	2.26	0.50
33:DD:233:HIS:N	33:DD:233:HIS:CD2	2.79	0.50
35:DF:28:ILE:HG12	35:DF:119:ARG:HH21	1.77	0.50
35:DF:205:ARG:O	35:DF:206:ILE:HG13	2.11	0.50
44:DS:52:SER:HB2	44:DS:55:ALA:HB3	1.94	0.50
46:DU:102:GLU:HG3	47:DV:2:PHE:CZ	2.46	0.50
47:DV:18:LEU:HD22	47:DV:19:LYS:CA	2.41	0.50
47:DV:22:VAL:O	47:DV:23:GLU:CB	2.49	0.50
50:DY:14:LEU:O	50:DY:72:VAL:HA	2.10	0.50
1:AA:124:G:C6	1:AA:125:U:N3	2.79	0.50
1:AA:322:C:H5	1:AA:328:C:C5	2.29	0.50
1:AA:719:C:H3'	1:AA:720:C:H6	1.75	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:719:C:H5	1:AA:720:C:C4	2.30	0.50
1:AA:1158:C:O2	1:AA:1158:C:H2'	2.10	0.50
2:AB:24:TRP:HZ3	2:AB:26:PRO:HA	1.75	0.50
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.11	0.50
5:AE:35:GLY:HA3	5:AE:112:LEU:HB3	1.94	0.50
7:AG:69:VAL:HG12	7:AG:69:VAL:O	2.10	0.50
8:AH:95:VAL:HG12	8:AH:99:GLU:HB2	1.93	0.50
9:AI:105:ASP:C	9:AI:107:ARG:H	2.14	0.50
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.25	0.50
11:AK:123:LYS:HA	11:AK:126:ARG:HB3	1.94	0.50
14:AN:4:LYS:HD2	14:AN:7:ILE:CD1	2.42	0.50
15:AO:39:LEU:CD2	15:AO:42:HIS:HD2	2.24	0.50
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	2.12	0.50
31:BA:94:C:O2	31:BA:94:C:H2'	2.10	0.50
31:BA:449:A:OP1	35:BF:84:VAL:O	2.30	0.50
31:BA:542:C:H42	31:BA:543:C:N4	2.07	0.50
31:BA:570:G:H2'	31:BA:2030:A:C5	2.46	0.50
31:BA:729:G:OP2	33:BD:208:LYS:NZ	2.44	0.50
31:BA:958:U:C5'	42:BQ:14:ARG:HD3	2.41	0.50
31:BA:971:C:C2'	31:BA:972:G:H5'	2.42	0.50
31:BA:1142(A):A:N7	31:BA:1144:G:C6	2.79	0.50
31:BA:1245:G:H5''	41:BP:16:ARG:NH2	2.25	0.50
31:BA:1303:G:H1'	31:BA:1641:A:C2	2.46	0.50
31:BA:1341:U:O4'	49:BX:57:LEU:HD11	2.12	0.50
31:BA:1412:A:H8	31:BA:1412:A:O5'	1.94	0.50
31:BA:1412:A:H3'	31:BA:1413:G:C8	2.46	0.50
31:BA:1833:U:O2	31:BA:1969:A:H2	1.95	0.50
31:BA:2090:G:C6	31:BA:2091:U:C4	3.00	0.50
31:BA:2092:U:C5	31:BA:2226:C:OP1	2.63	0.50
31:BA:2223:G:H2'	31:BA:2224:G:H5'	1.93	0.50
31:BA:2498:C:O2'	31:BA:2499:C:H5'	2.12	0.50
31:BA:2831:G:O4'	31:BA:2883:A:C2	2.64	0.50
33:BD:11:PRO:O	33:BD:12:SER:CB	2.60	0.50
33:BD:93:ALA:HB3	33:BD:105:ILE:HG23	1.94	0.50
33:BD:159:ALA:O	33:BD:161:THR:N	2.44	0.50
39:BN:128:HIS:CD2	39:BN:131:GLN:HB2	2.46	0.50
41:BP:10:PRO:CD	41:BP:11:GLY:N	2.75	0.50
42:BQ:16:ARG:HG2	42:BQ:17:LEU:H	1.75	0.50
43:BR:62:ALA:O	43:BR:66:VAL:HG23	2.12	0.50
44:BS:97:ARG:HH21	44:BS:98:VAL:HA	1.76	0.50
45:BT:22:PHE:CE2	45:BT:85:LYS:HE3	2.46	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:52:ILE:HA	45:BT:61:PHE:HA	1.93	0.50
45:BT:88:ILE:CG2	45:BT:89:VAL:N	2.67	0.50
49:BX:89:ILE:HD12	49:BX:92:LEU:HD12	1.93	0.50
51:BZ:63:ASP:C	51:BZ:65:GLN:H	2.14	0.50
51:BZ:154:ASP:C	51:BZ:155:LEU:HG	2.31	0.50
1:CA:104:G:O2'	1:CA:105:G:H5'	2.11	0.50
1:CA:445:G:H1	1:CA:489:C:H42	1.59	0.50
1:CA:658:G:O2'	1:CA:659:U:H5'	2.10	0.50
1:CA:921:U:C2'	1:CA:922:G:OP2	2.58	0.50
1:CA:975:A:H61	10:CJ:48:THR:HB	1.77	0.50
1:CA:1060:C:O2	1:CA:1198:G:C2	2.63	0.50
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.46	0.50
1:CA:1136:U:H2'	1:CA:1136:U:O2	2.10	0.50
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.26	0.50
5:CE:79:GLU:HB3	5:CE:92:LYS:HG3	1.92	0.50
8:CH:107:LEU:HD23	8:CH:107:LEU:H	1.75	0.50
10:CJ:80:LYS:HB2	10:CJ:80:LYS:NZ	2.27	0.50
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.11	0.50
23:D1:37:ILE:O	23:D1:38:SER:HB2	2.11	0.50
24:D2:14:ARG:NE	24:D2:15:LYS:H	2.09	0.50
29:D7:19:ARG:HH11	29:D7:19:ARG:HG2	1.77	0.50
30:D8:43:GLN:O	30:D8:44:LYS:CD	2.57	0.50
31:DA:51:G:N3	31:DA:119:A:C2	2.79	0.50
31:DA:756:C:C2'	31:DA:757:U:H5'	2.41	0.50
31:DA:764:A:O4'	33:DD:213:ARG:HG3	2.11	0.50
31:DA:828:U:O2	31:DA:828:U:C3'	2.59	0.50
31:DA:1263:U:H2'	31:DA:1264:G:C8	2.47	0.50
31:DA:1508:A:OP1	31:DA:1509(A):A:C2	2.64	0.50
31:DA:1562:A:C2	31:DA:1563:G:C4	3.00	0.50
31:DA:1796:U:O3'	33:DD:256:GLY:HA2	2.11	0.50
31:DA:1899:G:C2'	31:DA:1900:A:OP2	2.59	0.50
31:DA:2070:G:H2'	31:DA:2071:A:O4'	2.11	0.50
31:DA:2247:A:H2'	31:DA:2248:C:C6	2.47	0.50
31:DA:2287:A:H2	31:DA:2346:A:H2	1.57	0.50
31:DA:2579:C:C4	31:DA:2580:U:C5	3.00	0.50
31:DA:2625:G:H2'	31:DA:2626:C:C6	2.47	0.50
31:DA:2655:G:N3	31:DA:2664:G:O6	2.44	0.50
31:DA:2704:C:H2'	31:DA:2705:A:O4'	2.11	0.50
32:DB:51:G:OP2	44:DS:62:LYS:HE2	2.11	0.50
33:DD:16:MET:CG	33:DD:211:ARG:HH21	2.24	0.50
34:DE:65:GLY:C	34:DE:67:PHE:H	2.15	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:167:VAL:HG22	34:DE:168:MET:H	1.77	0.50
36:DG:151:ALA:HB3	36:DG:153:ARG:HH12	1.76	0.50
49:DX:40:LYS:CG	49:DX:41:ASN:H	2.25	0.50
50:DY:2:ARG:C	50:DY:4:LYS:N	2.64	0.50
1:AA:343:U:O2'	1:AA:346:G:O6	2.22	0.50
1:AA:758:G:H5''	1:AA:880:C:H1'	1.93	0.50
1:AA:1085:U:C6	1:AA:1094:G:N1	2.80	0.50
1:AA:1136:U:O2	1:AA:1136:U:H2'	2.11	0.50
4:AD:59:ARG:NE	4:AD:59:ARG:HA	2.26	0.50
12:AL:25:PRO:O	12:AL:27:LEU:HD22	2.10	0.50
18:AR:53:ARG:NH2	18:AR:60:ALA:N	2.59	0.50
24:B2:37:PHE:CE2	24:B2:40:SER:HA	2.46	0.50
24:B2:46:GLN:C	24:B2:48:HIS:N	2.62	0.50
27:B5:6:VAL:HG13	27:B5:7:PRO:HD2	1.92	0.50
28:B6:27:LYS:HG3	31:BA:2285:C:H5''	1.92	0.50
30:B8:30:ARG:HH21	41:BP:62:LEU:CB	2.23	0.50
30:B8:34:TRP:O	30:B8:35:GLN:CB	2.49	0.50
31:BA:48:G:O2'	31:BA:118:A:N1	2.40	0.50
31:BA:304:G:O2'	31:BA:305:U:H5'	2.11	0.50
31:BA:356:G:N2	31:BA:357:A:N3	2.59	0.50
31:BA:524:U:H2'	31:BA:525:U:C6	2.47	0.50
31:BA:622:G:H2'	31:BA:623:G:O4'	2.11	0.50
31:BA:628:G:H2'	31:BA:629:G:C8	2.47	0.50
31:BA:753:C:H2'	31:BA:754:C:H6	1.76	0.50
31:BA:763:G:O2'	31:BA:764:A:H3'	2.11	0.50
31:BA:792:G:N3	31:BA:2072:G:O2'	2.34	0.50
31:BA:1342:A:O2'	31:BA:1344:G:OP2	2.21	0.50
31:BA:1410:G:H2'	31:BA:1411:C:C5	2.47	0.50
31:BA:1412:A:C8	31:BA:1412:A:O5'	2.65	0.50
31:BA:1484:G:H1	31:BA:1506:C:N4	2.07	0.50
31:BA:1751:C:O2'	31:BA:1752:C:H5'	2.11	0.50
31:BA:1831:G:H2'	31:BA:1832:C:C6	2.46	0.50
31:BA:2859:G:O2'	31:BA:2860:A:P	2.70	0.50
33:BD:65:ILE:CD1	33:BD:67:PHE:CE1	2.89	0.50
35:BF:124:LEU:HD12	35:BF:125:LEU:H	1.75	0.50
37:BH:52:VAL:CG1	37:BH:69:ARG:HG3	2.42	0.50
39:BN:91:LEU:HD23	39:BN:98:VAL:HG21	1.94	0.50
44:BS:88:ASP:O	44:BS:92:TYR:HD2	1.95	0.50
46:BU:83:LEU:HB3	46:BU:88:ILE:CD1	2.38	0.50
46:BU:114:LYS:O	46:BU:117:GLN:N	2.45	0.50
47:BV:45:THR:HG22	47:BV:45:THR:O	2.11	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:76:CYS:CB	50:BY:77:PRO:CD	2.90	0.50
1:CA:189(B):C:O2'	1:CA:189(C):C:H5'	2.12	0.50
1:CA:236:G:C5	1:CA:237:C:C5	2.99	0.50
1:CA:407:G:H4'	4:CD:115:ARG:O	2.11	0.50
1:CA:445:G:N3	1:CA:446:G:C8	2.79	0.50
1:CA:640:A:C2'	1:CA:641:U:H5'	2.41	0.50
1:CA:706:A:H2	11:CK:42:TRP:CD1	2.29	0.50
1:CA:1084:G:OP1	1:CA:1086:U:C5	2.64	0.50
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.75	0.50
11:CK:84:VAL:HG11	11:CK:95:ILE:HD11	1.93	0.50
12:CL:46:LYS:HD3	12:CL:94:PRO:HG3	1.93	0.50
12:CL:60:LEU:H	12:CL:60:LEU:HD22	1.76	0.50
19:CS:6:LYS:HD2	19:CS:6:LYS:N	2.27	0.50
22:D0:41:ARG:HB2	31:DA:2330:G:O2'	2.11	0.50
24:D2:57:ILE:CG1	24:D2:59:ARG:HH11	2.24	0.50
31:DA:258:G:C6	31:DA:259:G:N7	2.79	0.50
31:DA:508:G:C5'	31:DA:509:C:OP1	2.59	0.50
31:DA:606:U:H4'	31:DA:658:C:H4'	1.93	0.50
31:DA:648:G:C2'	31:DA:649:G:H5'	2.42	0.50
31:DA:649:G:H2'	31:DA:650:C:C6	2.46	0.50
31:DA:661:C:C4'	41:DP:18:ARG:HG2	2.41	0.50
31:DA:729:G:OP2	33:DD:208:LYS:NZ	2.45	0.50
31:DA:729:G:O5'	33:DD:208:LYS:NZ	2.41	0.50
31:DA:827:U:H2'	31:DA:2068:U:C2	2.47	0.50
31:DA:1044:G:C6	31:DA:1112:G:N1	2.71	0.50
31:DA:1313:U:C2'	31:DA:1610:A:C2	2.93	0.50
31:DA:1450:G:C6	31:DA:1450(A):C:C4	3.00	0.50
31:DA:1450(A):C:N4	31:DA:1451:C:H41	2.08	0.50
31:DA:1826:G:H2'	31:DA:1827:C:C6	2.47	0.50
31:DA:1889:A:H1'	31:DA:2087:G:O4'	2.12	0.50
31:DA:2022:U:HO2'	31:DA:2617:C:H5'	1.74	0.50
31:DA:2522:U:O2'	31:DA:2647:U:H5''	2.10	0.50
31:DA:2523:G:C2'	31:DA:2524:G:C5'	2.78	0.50
31:DA:2574:G:C6	31:DA:2575:C:N3	2.79	0.50
32:DB:26:A:C5	32:DB:27:C:H5	2.29	0.50
34:DE:70:ALA:O	34:DE:73:GLU:N	2.44	0.50
34:DE:201:THR:CG2	34:DE:202:LYS:N	2.74	0.50
47:DV:25:LEU:N	47:DV:94:LEU:CD1	2.75	0.50
47:DV:62:LEU:CB	47:DV:98:GLU:HA	2.23	0.50
51:DZ:41:LEU:O	51:DZ:42:VAL:C	2.50	0.50
51:DZ:149:SER:CB	51:DZ:173:ALA:HA	2.41	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:224:C:H2'	1:AA:225:C:H6	1.77	0.50
1:AA:564:C:C5	17:AQ:31:LEU:HD21	2.47	0.50
1:AA:676:A:C4	1:AA:677:U:C5	2.99	0.50
1:AA:784:C:C4'	31:BA:1837:C:OP1	2.51	0.50
1:AA:1006:C:H42	1:AA:1024:G:H21	1.57	0.50
1:AA:1350:A:OP1	9:AI:121:ARG:HG3	2.12	0.50
1:AA:1381:U:C2'	1:AA:1382:C:H5'	2.42	0.50
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.41	0.50
2:AB:67:THR:OG1	2:AB:155:LEU:HG	2.12	0.50
2:AB:173:ALA:HA	2:AB:176:GLU:HG3	1.93	0.50
5:AE:145:LYS:O	5:AE:149:GLU:HG2	2.12	0.50
13:AM:12:ASN:OD1	13:AM:46:LYS:HE2	2.12	0.50
22:B0:18:ALA:HB2	31:BA:2272:U:OP2	2.12	0.50
24:B2:14:ARG:HH11	24:B2:57:ILE:CG2	2.23	0.50
24:B2:15:LYS:HA	24:B2:18:PRO:CD	2.42	0.50
25:B3:8:LEU:CD1	25:B3:31:LEU:HD23	2.20	0.50
31:BA:271(O):C:O2	31:BA:271(P):C:C5	2.64	0.50
31:BA:781:A:H5'	33:BD:219:PRO:HG2	1.94	0.50
31:BA:864:G:O2'	31:BA:865:C:H5'	2.11	0.50
31:BA:1286:A:C6	31:BA:1329:U:C2	3.00	0.50
31:BA:1313:U:C2'	31:BA:1610:A:C2	2.91	0.50
31:BA:1458:C:O4'	31:BA:1458:C:O2	2.29	0.50
31:BA:1528:A:C2	31:BA:1544:A:N6	2.79	0.50
31:BA:1651:G:C6	31:BA:1652:A:C5	3.00	0.50
31:BA:1656:C:O2'	31:BA:1657:C:H5'	2.12	0.50
31:BA:1817:G:C6	31:BA:1818:U:C4	3.00	0.50
31:BA:2448:A:OP1	31:BA:2499:C:OP1	2.30	0.50
31:BA:2680:C:OP2	34:BE:111:ARG:NH2	2.41	0.50
31:BA:2681:C:O2	31:BA:2681:C:H2'	2.11	0.50
31:BA:2886:G:H2'	31:BA:2887:U:C6	2.38	0.50
35:BF:115:ALA:O	35:BF:118:ALA:HB3	2.11	0.50
40:BO:113:LYS:O	40:BO:117:LEU:HB2	2.10	0.50
45:BT:38:ASN:HD22	45:BT:38:ASN:C	2.14	0.50
45:BT:88:ILE:HG22	45:BT:89:VAL:H	1.75	0.50
46:BU:33:ARG:O	46:BU:37:GLU:HG3	2.12	0.50
47:BV:19:LYS:C	47:BV:20:LEU:HG	2.32	0.50
47:BV:93:GLU:O	47:BV:94:LEU:HB2	2.11	0.50
48:BW:18:ARG:NH1	48:BW:18:ARG:CG	2.71	0.50
1:CA:60:A:N3	1:CA:61:G:H1'	2.26	0.50
1:CA:620:C:C2'	1:CA:621:A:H5'	2.42	0.50
1:CA:792:A:H4'	1:CA:793:U:O5'	2.12	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:811:C:H4'	1:CA:900:A:H62	1.76	0.50
1:CA:883:C:N4	1:CA:884:U:O4	2.45	0.50
1:CA:997:U:H2'	1:CA:998:G:H8	1.76	0.50
1:CA:1201:A:C1'	1:CA:1202:G:OP2	2.59	0.50
1:CA:1350:A:OP1	9:CI:121:ARG:HG3	2.12	0.50
1:CA:1430:C:H5'	31:DA:1704:G:H5'	1.94	0.50
8:CH:119:LEU:HB2	8:CH:124:ALA:HB2	1.93	0.50
11:CK:50:TYR:HB3	11:CK:54:ARG:O	2.11	0.50
11:CK:85:ARG:HA	11:CK:112:THR:OG1	2.11	0.50
22:D0:40:GLN:NE2	22:D0:43:THR:CA	2.73	0.50
27:D5:16:ARG:HH12	27:D5:17:ASP:CG	2.13	0.50
30:D8:4:MET:HE1	31:DA:593:G:C1'	2.41	0.50
31:DA:478:A:N6	31:DA:502:A:N6	2.60	0.50
31:DA:588:U:H2'	31:DA:589:C:H6	1.74	0.50
31:DA:588:U:C2	35:DF:90:PHE:CD1	2.98	0.50
31:DA:637:A:H4'	31:DA:638:G:O5'	2.12	0.50
31:DA:802:A:H2'	31:DA:803:U:C6	2.46	0.50
31:DA:811:U:O2	31:DA:1250:G:H3'	2.11	0.50
31:DA:1173:G:H3'	31:DA:1174:A:C5'	2.41	0.50
31:DA:1187:G:H5''	47:DV:82:ARG:NH1	2.27	0.50
31:DA:1230:C:O5'	31:DA:1230:C:H6	1.94	0.50
31:DA:1268:A:H2'	31:DA:1269:A:O4'	2.11	0.50
31:DA:1434:A:N6	31:DA:1558:A:N6	2.52	0.50
31:DA:1568:G:N3	33:DD:58:HIS:CE1	2.80	0.50
31:DA:1839:G:C8	31:DA:1927:A:C1'	2.93	0.50
31:DA:2069:G:O2'	31:DA:2070:G:H5'	2.11	0.50
31:DA:2072:G:H2'	31:DA:2073:C:O4'	2.12	0.50
31:DA:2086:U:H2'	31:DA:2087:G:C8	2.46	0.50
31:DA:2335:A:N7	31:DA:2337:G:C5	2.80	0.50
33:DD:2:ALA:HB3	33:DD:20:ASP:HB2	1.94	0.50
34:DE:171:GLU:O	34:DE:184:VAL:HA	2.11	0.50
35:DF:9:ILE:HG12	35:DF:14:PRO:C	2.32	0.50
35:DF:75:HIS:CE1	35:DF:82:ILE:HD12	2.46	0.50
35:DF:126:VAL:HG11	35:DF:142:TRP:CH2	2.46	0.50
36:DG:110:ALA:O	36:DG:114:ILE:HD11	2.12	0.50
37:DH:140:LYS:O	37:DH:141:VAL:C	2.49	0.50
38:DI:18:VAL:HG12	38:DI:18:VAL:O	2.11	0.50
45:DT:22:PHE:CZ	45:DT:85:LYS:HE3	2.46	0.50
45:DT:106:SER:CB	45:DT:110:ILE:HD11	2.42	0.50
47:DV:35:LEU:CD2	47:DV:61:VAL:HG22	2.42	0.50
47:DV:51:VAL:HG12	47:DV:52:VAL:N	2.26	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:32:PRO:HA	49:DX:75:ASP:HB2	1.94	0.50
49:DX:73:ARG:O	49:DX:75:ASP:N	2.45	0.50
1:AA:105:G:H2'	1:AA:106:C:C6	2.46	0.50
1:AA:115:G:H1	1:AA:312:C:H42	1.59	0.50
1:AA:237:C:O2'	1:AA:238:G:H5'	2.11	0.50
1:AA:240:C:H2'	1:AA:241:C:C6	2.47	0.50
1:AA:638:G:O2'	1:AA:639:G:H5'	2.11	0.50
1:AA:1102:A:C2'	1:AA:1103:C:H5'	2.41	0.50
1:AA:1285:A:OP1	1:AA:1285:A:H8	1.95	0.50
2:AB:114:ARG:O	2:AB:118:LEU:HG	2.12	0.50
3:AC:47:LEU:HD23	3:AC:52:LEU:HD13	1.93	0.50
3:AC:182:ILE:HG23	3:AC:202:ILE:C	2.32	0.50
8:AH:119:LEU:HB2	8:AH:124:ALA:HB2	1.93	0.50
11:AK:105:VAL:O	11:AK:106:LYS:C	2.50	0.50
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.49	0.50
22:B0:41:ARG:HD3	22:B0:44:ARG:HD3	1.94	0.50
24:B2:57:ILE:HG12	24:B2:59:ARG:HH11	1.71	0.50
28:B6:23:THR:HG21	31:BA:2419:U:H4'	1.93	0.50
28:B6:25:LYS:O	31:BA:2286:A:C2	2.57	0.50
30:B8:29:LYS:O	30:B8:32:LEU:N	2.45	0.50
30:B8:31:HIS:O	30:B8:33:ASN:N	2.45	0.50
31:BA:343:C:H2'	31:BA:343:C:O2	2.11	0.50
31:BA:456:C:C4	49:BX:66:LEU:HD22	2.47	0.50
31:BA:513:A:N1	31:BA:514:A:C5	2.80	0.50
31:BA:593:G:H2'	31:BA:594:U:C6	2.47	0.50
31:BA:817:C:H2'	31:BA:818:G:C8	2.47	0.50
31:BA:956:G:OP2	42:BQ:14:ARG:NH2	2.45	0.50
31:BA:1024:G:C3'	31:BA:1025:G:H5''	2.39	0.50
31:BA:1162:G:H1'	47:BV:91:TYR:OH	2.12	0.50
31:BA:1187:G:H5''	47:BV:82:ARG:NH1	2.27	0.50
31:BA:1349:A:N3	31:BA:1349:A:H5'	2.27	0.50
31:BA:1404:C:O2	31:BA:1404:C:H2'	2.12	0.50
31:BA:1459:G:C5	31:BA:1461:G:C8	2.99	0.50
31:BA:1487:G:H2'	31:BA:1488:G:O5'	2.12	0.50
31:BA:1693:U:H1'	33:BD:14:ARG:NH2	2.26	0.50
31:BA:2415:G:O2'	31:BA:2416:C:H5'	2.12	0.50
31:BA:2512:C:H2'	31:BA:2513:G:O4'	2.11	0.50
33:BD:43:ARG:NH1	33:BD:44:ASN:ND2	2.60	0.50
33:BD:70:TRP:CZ3	33:BD:150:LYS:HE3	2.46	0.50
35:BF:127:GLU:OE1	35:BF:127:GLU:CA	2.60	0.50
36:BG:55:LYS:O	36:BG:59:GLU:HB2	2.12	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:130:TYR:CB	38:BI:136:VAL:HG13	2.42	0.50
39:BN:17:ASP:OD2	39:BN:17:ASP:C	2.49	0.50
41:BP:85:LEU:HD12	41:BP:120:ALA:HB2	1.92	0.50
44:BS:20:ARG:NH1	44:BS:87:PHE:C	2.65	0.50
45:BT:29:ARG:HG2	45:BT:85:LYS:CA	2.42	0.50
48:BW:43:GLY:O	48:BW:47:VAL:HG23	2.12	0.50
50:BY:8:LYS:NZ	50:BY:72:VAL:O	2.40	0.50
51:BZ:149:SER:CB	51:BZ:173:ALA:HA	2.41	0.50
1:CA:487:A:H2'	1:CA:488:C:O4'	2.12	0.50
1:CA:543:C:H2'	1:CA:544:G:O4'	2.12	0.50
1:CA:646:U:H2'	1:CA:647:C:C6	2.47	0.50
1:CA:682:G:H1'	1:CA:709:G:N2	2.27	0.50
1:CA:872:A:C4	1:CA:874:G:N7	2.80	0.50
1:CA:875:C:H3'	1:CA:876:G:H5''	1.94	0.50
1:CA:910:C:H2'	1:CA:911:U:O4'	2.12	0.50
1:CA:1121:U:H3	1:CA:1152:A:H2	1.60	0.50
1:CA:1314:C:H5	19:CS:6:LYS:HZ3	1.58	0.50
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.47	0.50
2:CB:59:GLU:HB2	2:CB:221:LEU:CD1	2.42	0.50
4:CD:104:VAL:HG13	4:CD:108:LEU:HD13	1.94	0.50
4:CD:173:TRP:CE3	4:CD:193:ASP:HB3	2.46	0.50
16:CP:70:ALA:O	16:CP:74:LEU:HG	2.11	0.50
18:CR:69:THR:O	18:CR:70:ILE:C	2.50	0.50
23:D1:8:SER:HB3	31:DA:1364:G:OP1	2.11	0.50
27:D5:16:ARG:NH1	27:D5:16:ARG:CG	2.70	0.50
31:DA:814:C:N3	31:DA:1194:A:C2	2.80	0.50
31:DA:1162:G:H1'	47:DV:91:TYR:OH	2.11	0.50
31:DA:1505:C:H3'	31:DA:1505:C:C6	2.41	0.50
31:DA:1545:A:H2'	31:DA:1546:C:C5'	2.41	0.50
31:DA:1625:C:H2'	31:DA:1626:G:O4'	2.12	0.50
31:DA:1845:G:H2'	31:DA:1846:G:H5'	1.92	0.50
31:DA:2063:C:C5	31:DA:2064:C:C5	3.00	0.50
31:DA:2445:G:OP1	35:DF:74:ARG:NH2	2.45	0.50
31:DA:2485:G:H5''	42:DQ:46:GLN:HE21	1.77	0.50
31:DA:2637:U:O2'	31:DA:2638:G:H5'	2.11	0.50
32:DB:45:A:C2'	32:DB:46:A:H5'	2.42	0.50
32:DB:80:U:H2'	32:DB:81:G:N2	2.23	0.50
33:DD:35:LYS:CA	33:DD:64:ILE:CG2	2.90	0.50
33:DD:66:ASP:OD2	33:DD:69:ARG:HG2	2.12	0.50
33:DD:85:ASP:HB2	33:DD:92:ILE:CG1	2.39	0.50
33:DD:94:LEU:HD22	33:DD:94:LEU:C	2.32	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:133:LEU:HD13	33:DD:173:VAL:HG11	1.92	0.50
33:DD:231:HIS:CG	33:DD:232:PRO:HD2	2.46	0.50
35:DF:93:LYS:HB3	35:DF:94:PRO:HD2	1.93	0.50
36:DG:76:SER:CB	36:DG:83:ARG:HB3	2.33	0.50
41:DP:23:PRO:HB2	41:DP:33:ARG:CG	2.20	0.50
43:DR:63:ARG:HA	43:DR:80:PHE:CE2	2.46	0.50
45:DT:102:ILE:O	45:DT:103:ARG:C	2.49	0.50
47:DV:27:ALA:HB1	47:DV:64:HIS:CD2	2.47	0.50
48:DW:42:ARG:C	48:DW:44:ALA:N	2.65	0.50
50:DY:63:LYS:O	50:DY:64:GLU:O	2.30	0.50
51:DZ:97:GLU:O	51:DZ:98:MET:HB3	2.12	0.50
51:DZ:157:LEU:HD13	51:DZ:161:VAL:HG12	1.92	0.50
1:AA:137:C:N3	1:AA:227:G:C2	2.80	0.50
1:AA:428:G:H5'	1:AA:430:A:O4'	2.11	0.50
1:AA:725:G:C2	1:AA:726:C:C6	3.00	0.50
1:AA:975:A:H61	10:AJ:48:THR:HB	1.76	0.50
2:AB:112:VAL:HG22	2:AB:149:LEU:HD13	1.93	0.50
4:AD:100:ARG:O	4:AD:103:ASN:N	2.40	0.50
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	1.94	0.50
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.26	0.50
8:AH:96:GLY:H	8:AH:99:GLU:CD	2.15	0.50
9:AI:17:VAL:CG1	9:AI:81:ILE:HD13	2.40	0.50
11:AK:21:ILE:N	11:AK:83:ILE:O	2.43	0.50
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.23	0.50
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.92	0.50
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.12	0.50
21:AU:6:ARG:HG2	21:AU:15:ARG:NH1	2.27	0.50
23:B1:54:ALA:O	23:B1:56:GLN:N	2.44	0.50
24:B2:14:ARG:NE	24:B2:15:LYS:H	2.09	0.50
28:B6:13:CYS:O	28:B6:21:TYR:HA	2.12	0.50
31:BA:205:G:O2'	31:BA:206:U:P	2.70	0.50
31:BA:241:A:O4'	31:BA:243:U:C6	2.65	0.50
31:BA:271(F):C:H42	31:BA:271(R):G:H1	1.60	0.50
31:BA:271(G):C:O2	31:BA:271(G):C:H2'	2.11	0.50
31:BA:412:A:H2'	31:BA:413:C:H5'	1.94	0.50
31:BA:523:C:H4'	31:BA:540:C:O2	2.12	0.50
31:BA:637:A:OP1	41:BP:133:SER:HB3	2.11	0.50
31:BA:658:C:H2'	31:BA:659:C:C6	2.46	0.50
31:BA:842:G:N2	31:BA:937:U:C2	2.79	0.50
31:BA:995:C:N3	39:BN:4:TYR:CZ	2.79	0.50
31:BA:1173:G:H3'	31:BA:1174:A:C5'	2.42	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1186:G:H2'	31:BA:1187:G:O4'	2.11	0.50
31:BA:1710:C:O2'	31:BA:1711:C:H5'	2.12	0.50
31:BA:1810:A:H2'	31:BA:1811:G:O4'	2.11	0.50
31:BA:2069:G:H2'	31:BA:2070:G:H5'	1.94	0.50
33:BD:48:ARG:O	33:BD:50:THR:HG23	2.12	0.50
33:BD:136:ILE:HD12	33:BD:136:ILE:N	2.26	0.50
35:BF:155:LEU:HD22	35:BF:186:ILE:HA	1.93	0.50
36:BG:110:ALA:O	36:BG:114:ILE:HD11	2.11	0.50
36:BG:139:LEU:HA	36:BG:144:ILE:HG23	1.92	0.50
40:BO:86:ILE:O	40:BO:87:ILE:HD13	2.12	0.50
42:BQ:111:GLU:O	42:BQ:115:MET:HB2	2.11	0.50
45:BT:65:LYS:CG	45:BT:66:VAL:H	2.25	0.50
45:BT:128:GLU:OE1	45:BT:129:ARG:N	2.45	0.50
50:BY:11:ASP:OD1	50:BY:28:LYS:HE2	2.12	0.50
50:BY:68:HIS:ND1	50:BY:70:SER:HB3	2.27	0.50
1:CA:184:G:N2	1:CA:194:C:C2	2.80	0.50
1:CA:378:G:O6	1:CA:385:C:N4	2.44	0.50
1:CA:458:C:H2'	1:CA:460:G:H8	1.77	0.50
1:CA:665:A:H1'	1:CA:733:A:O4'	2.12	0.50
1:CA:836:G:C6	1:CA:851:G:C6	2.99	0.50
1:CA:927:G:OP2	1:CA:1503:A:N9	2.45	0.50
1:CA:1099:G:C2	1:CA:1100:C:C2	3.00	0.50
1:CA:1272:G:C6	1:CA:1273:G:N7	2.80	0.50
1:CA:1425:U:H2'	1:CA:1426:C:C6	2.47	0.50
1:CA:1465:C:H2'	1:CA:1466:C:O4'	2.11	0.50
2:CB:24:TRP:HZ3	2:CB:26:PRO:HA	1.75	0.50
2:CB:163:PHE:HD2	2:CB:185:ILE:HG13	1.77	0.50
3:CC:111:LEU:HD11	3:CC:145:GLY:O	2.12	0.50
6:CF:79:LEU:CB	6:CF:88:VAL:HG21	2.41	0.50
8:CH:114:THR:HG23	8:CH:117:GLY:O	2.12	0.50
10:CJ:30:SER:HB2	10:CJ:80:LYS:HG3	1.94	0.50
11:CK:17:GLY:HA2	11:CK:35:PRO:HD3	1.93	0.50
11:CK:82:VAL:HB	11:CK:108:ILE:HG12	1.94	0.50
15:CO:28:GLN:O	15:CO:32:LEU:HG	2.12	0.50
16:CP:6:LEU:HD23	16:CP:17:TYR:CG	2.47	0.50
16:CP:48:TRP:H	16:CP:48:TRP:HD1	1.59	0.50
24:D2:52:ASP:OD1	31:DA:76:C:O4'	2.30	0.50
28:D6:11:LEU:HD11	28:D6:26:ASN:ND2	2.27	0.50
28:D6:12:GLU:HB3	28:D6:23:THR:CG2	2.38	0.50
31:DA:258:G:C4	31:DA:259:G:C8	3.00	0.50
31:DA:271(P):C:C2	31:DA:271(Q):G:N7	2.79	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:338:G:H2'	31:DA:339:U:H6	1.76	0.50
31:DA:836:G:C5	31:DA:837:C:C5	3.00	0.50
31:DA:856:C:H2'	31:DA:857:C:C6	2.46	0.50
31:DA:1005:C:O2'	39:DN:28:THR:CG2	2.58	0.50
31:DA:1353:A:H5''	33:DD:38:LYS:NZ	2.26	0.50
31:DA:1608:A:H1'	31:DA:1610:A:OP2	2.11	0.50
31:DA:1631(A):A:C2'	31:DA:1632:A:H5'	2.42	0.50
31:DA:1853:A:N1	31:DA:2087:G:H1'	2.27	0.50
31:DA:1949:G:H2'	31:DA:1950:G:C8	2.46	0.50
31:DA:2222:G:H5''	33:DD:186:HIS:CE1	2.46	0.50
31:DA:2335:A:C8	31:DA:2337:G:N7	2.80	0.50
31:DA:2472:G:C6	31:DA:2477:C:OP1	2.65	0.50
31:DA:2476:A:N3	31:DA:2477:C:C6	2.80	0.50
31:DA:2674:G:O3'	40:DO:30:ALA:HA	2.11	0.50
31:DA:2773:C:H2'	31:DA:2774:C:H6	1.76	0.50
31:DA:2813:A:C6	31:DA:2814:C:C4	3.00	0.50
31:DA:2850:A:OP2	31:DA:2866:U:C5	2.62	0.50
33:DD:32:SER:O	33:DD:33:LEU:CB	2.60	0.50
36:DG:17:PRO:O	36:DG:21:ARG:HB3	2.11	0.50
40:DO:46:ALA:O	40:DO:47:ILE:HB	2.12	0.50
41:DP:41:ARG:HA	41:DP:41:ARG:CZ	2.41	0.50
44:DS:74:ALA:CB	44:DS:103:GLU:HG3	2.21	0.50
44:DS:89:ARG:C	44:DS:92:TYR:HB3	2.32	0.50
46:DU:62:ILE:HA	46:DU:65:ILE:HD12	1.92	0.50
47:DV:45:THR:HG22	47:DV:45:THR:O	2.11	0.50
1:AA:458:C:H3'	1:AA:460:G:C8	2.47	0.50
1:AA:1060:C:C2	1:AA:1198:G:C2	3.00	0.50
2:AB:82:ARG:HG3	2:AB:92:TYR:CZ	2.47	0.50
3:AC:170:GLN:HG2	3:AC:171:GLY:H	1.77	0.50
6:AF:49:ALA:HB2	18:AR:78:LEU:C	2.33	0.50
10:AJ:54:PHE:CZ	10:AJ:55:LYS:NZ	2.80	0.50
10:AJ:96:ILE:N	10:AJ:96:ILE:HD13	2.27	0.50
19:AS:6:LYS:HG2	19:AS:7:LYS:CD	2.39	0.50
22:B0:56:ASP:OD2	31:BA:2364:C:H4'	2.11	0.50
23:B1:87:PRO:CB	23:B1:91:LYS:NZ	2.75	0.50
25:B3:30:ARG:O	25:B3:33:GLN:HB3	2.12	0.50
31:BA:38:A:C2	31:BA:442:G:C2	3.00	0.50
31:BA:71:A:N7	31:BA:73:A:C2	2.80	0.50
31:BA:79:G:C5	31:BA:80:G:N7	2.80	0.50
31:BA:356:G:C2	31:BA:357:A:C4	3.00	0.50
31:BA:429:A:H2'	31:BA:430:G:C8	2.47	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:692:C:C2	31:BA:771:G:C2	2.99	0.50
31:BA:821:A:H2'	31:BA:946:G:H5''	1.93	0.50
31:BA:997:G:O2'	31:BA:998:C:H5'	2.11	0.50
31:BA:1405:U:H2'	31:BA:1406:U:H6	1.72	0.50
31:BA:1468:C:O2'	31:BA:1469:A:H5'	2.12	0.50
31:BA:1478:G:O2'	31:BA:1558:A:C2	2.64	0.50
31:BA:1678:G:N2	31:BA:1989:G:N2	2.46	0.50
31:BA:2224:G:H4'	31:BA:2226:C:C2	2.46	0.50
31:BA:2556:C:C2'	31:BA:2557:G:H5'	2.42	0.50
31:BA:2641:G:OP1	39:BN:75:TYR:CD2	2.65	0.50
34:BE:93:VAL:C	34:BE:95:ILE:N	2.64	0.50
35:BF:51:THR:HG21	35:BF:92:PRO:HD2	1.94	0.50
35:BF:141:ALA:O	35:BF:144:LYS:HB3	2.11	0.50
36:BG:22:ARG:HD2	36:BG:23:PHE:CZ	2.47	0.50
39:BN:17:ASP:OD2	39:BN:19:GLU:HB3	2.11	0.50
39:BN:46:VAL:O	39:BN:47:ALA:HB3	2.12	0.50
41:BP:50:ARG:HH21	41:BP:50:ARG:CG	2.25	0.50
41:BP:105:LEU:O	41:BP:106:LEU:HB2	2.11	0.50
45:BT:89:VAL:CG1	45:BT:91:ARG:HE	2.22	0.50
46:BU:82:GLY:O	46:BU:113:ALA:HA	2.12	0.50
46:BU:92:ARG:NH1	47:BV:11:GLN:O	2.45	0.50
48:BW:44:ALA:O	48:BW:45:TYR:C	2.48	0.50
49:BX:74:PRO:O	49:BX:75:ASP:O	2.30	0.50
1:CA:125:U:H2'	1:CA:126:G:C8	2.47	0.50
1:CA:458:C:H2'	1:CA:460:G:C8	2.47	0.50
1:CA:1150:U:C4	1:CA:1151:A:N7	2.80	0.50
1:CA:1470:G:O2'	1:CA:1471:G:H5'	2.11	0.50
2:CB:63:MET:HB3	2:CB:225:ALA:HB1	1.94	0.50
2:CB:170:GLU:O	2:CB:174:VAL:HG23	2.11	0.50
3:CC:188:LEU:O	3:CC:189:ALA:HB2	2.12	0.50
7:CG:111:ARG:HB3	7:CG:113:GLU:HG2	1.94	0.50
9:CI:118:LYS:NZ	9:CI:118:LYS:CB	2.74	0.50
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	2.11	0.50
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.27	0.50
11:CK:92:GLU:C	11:CK:94:ALA:H	2.14	0.50
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.12	0.50
18:CR:65:ILE:C	18:CR:65:ILE:HD12	2.33	0.50
21:CU:22:ARG:N	21:CU:23:PRO:HD3	2.27	0.50
24:D2:14:ARG:O	24:D2:17:SER:N	2.44	0.50
24:D2:37:PHE:CE2	24:D2:40:SER:HA	2.47	0.50
25:D3:26:LEU:HD21	25:D3:46:ASN:HB2	1.94	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:128:C:C6	31:DA:128:C:C3'	2.95	0.50
31:DA:271(T):C:C2'	31:DA:271(U):G:H5'	2.41	0.50
31:DA:272(B):G:C2'	31:DA:272(C):G:O5'	2.60	0.50
31:DA:523:C:H4'	31:DA:540:C:O2	2.12	0.50
31:DA:743:G:H2'	31:DA:744:G:C5'	2.37	0.50
31:DA:763:G:O2'	31:DA:764:A:H3'	2.12	0.50
31:DA:874:G:N2	31:DA:875:G:H1'	2.27	0.50
31:DA:1293:C:H2'	31:DA:1294:U:H6	1.75	0.50
31:DA:1405:U:H2'	31:DA:1406:U:H6	1.72	0.50
31:DA:1434:A:N6	31:DA:1558:A:H62	2.05	0.50
31:DA:1499:C:H2'	31:DA:1500:G:C5'	2.42	0.50
31:DA:1528:A:H8	31:DA:1528(A):A:C5	2.28	0.50
31:DA:1786:A:N1	31:DA:2606:C:O4'	2.44	0.50
31:DA:2052:G:C4	31:DA:2053:G:C8	3.00	0.50
31:DA:2058:A:N1	55:DA:3320:TEL:O48	2.30	0.50
31:DA:2309:A:N3	31:DA:2310:A:C2	2.79	0.50
31:DA:2619:C:H2'	31:DA:2620:C:H6	1.76	0.50
31:DA:2803:C:H2'	31:DA:2804:C:O4'	2.12	0.50
31:DA:2892:A:N7	31:DA:2893:G:C8	2.80	0.50
32:DB:66:A:C6	32:DB:109:C:C5	3.00	0.50
33:DD:39:LYS:HB2	33:DD:62:TYR:HB2	1.93	0.50
34:DE:59:VAL:CG2	34:DE:63:LEU:HA	2.37	0.50
34:DE:101:ARG:HB3	34:DE:169:ASN:HD22	1.75	0.50
37:DH:136:ILE:O	37:DH:136:ILE:HG22	2.11	0.50
37:DH:158:HIS:NE2	37:DH:168:PRO:HB2	2.27	0.50
38:DI:133:HIS:HB2	38:DI:134:PRO:HD2	1.89	0.50
42:DQ:88:GLY:O	42:DQ:90:VAL:N	2.45	0.50
43:DR:12:ARG:HB3	43:DR:16:HIS:HB3	1.94	0.50
48:DW:36:LEU:HD12	48:DW:48:ALA:HA	1.94	0.50
48:DW:86:LEU:HD12	48:DW:87:PRO:O	2.12	0.50
49:DX:85:PRO:O	49:DX:87:GLN:N	2.45	0.50
1:AA:60:A:N3	1:AA:61:G:H1'	2.27	0.49
1:AA:155:C:H2'	1:AA:156:G:C8	2.47	0.49
1:AA:253:U:H2'	1:AA:254:G:H8	1.77	0.49
1:AA:458:C:H2'	1:AA:460:G:C8	2.47	0.49
1:AA:687:A:N1	1:AA:704:A:C5	2.80	0.49
1:AA:817:C:H4'	1:AA:818:G:OP1	2.12	0.49
1:AA:1226:C:OP1	13:AM:91:ARG:NH1	2.45	0.49
2:AB:63:MET:HB3	2:AB:225:ALA:HB1	1.93	0.49
4:AD:111:ALA:HB2	4:AD:120:LEU:HD12	1.94	0.49
6:AF:55:ASP:HB2	6:AF:86:ARG:HH12	1.77	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:11:LYS:HG2	9:AI:11:LYS:O	2.11	0.49
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.27	0.49
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.77	0.49
20:AT:100:ILE:O	20:AT:102:GLY:N	2.45	0.49
22:B0:21:LEU:HD13	22:B0:41:ARG:HG3	1.93	0.49
22:B0:37:LEU:C	22:B0:38:VAL:CG2	2.80	0.49
31:BA:191:A:H2'	31:BA:192:C:C6	2.47	0.49
31:BA:466:A:H2'	31:BA:467:G:H5'	1.94	0.49
31:BA:661:C:C4'	41:BP:18:ARG:HG2	2.41	0.49
31:BA:911:A:O5'	31:BA:912:C:H5''	2.12	0.49
31:BA:971:C:H2'	31:BA:972:G:C5'	2.41	0.49
31:BA:1131:G:C8	31:BA:2025:C:H4'	2.47	0.49
31:BA:2071:A:H2	31:BA:2440:C:H41	1.60	0.49
31:BA:2192:G:C2'	31:BA:2193:G:H5'	2.42	0.49
31:BA:2319:G:C2	31:BA:2320:A:N1	2.80	0.49
31:BA:2835:A:N6	31:BA:2879:C:C6	2.79	0.49
32:BB:13:A:C6	32:BB:70:C:H5'	2.46	0.49
32:BB:15:A:C5'	32:BB:16:G:H8	2.16	0.49
32:BB:17:C:O2	32:BB:18:G:C8	2.65	0.49
32:BB:82:G:H2'	32:BB:83:G:H5'	1.94	0.49
34:BE:9:VAL:CG2	34:BE:10:GLY:N	2.75	0.49
34:BE:37:ARG:O	34:BE:45:THR:N	2.42	0.49
34:BE:70:ALA:O	34:BE:71:GLY:C	2.50	0.49
36:BG:114:ILE:HG12	36:BG:140:ILE:HD12	1.94	0.49
48:BW:45:TYR:O	48:BW:48:ALA:HB3	2.12	0.49
51:BZ:151:HIS:CD2	51:BZ:170:THR:HG22	2.46	0.49
1:CA:330:C:H2'	1:CA:331:G:H5'	1.93	0.49
1:CA:358:U:C4	1:CA:359:U:O4	2.65	0.49
1:CA:444:C:C2	1:CA:445:G:N7	2.80	0.49
1:CA:458:C:N4	1:CA:474:G:H1	2.10	0.49
1:CA:509:A:O2'	1:CA:510:A:C8	2.64	0.49
1:CA:544:G:C6	1:CA:545:C:C4	3.00	0.49
1:CA:692:U:H2'	1:CA:694:A:OP2	2.12	0.49
1:CA:981:U:O4	1:CA:1222:G:O6	2.29	0.49
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.12	0.49
9:CI:65:VAL:HG21	9:CI:73:GLN:HB3	1.94	0.49
14:CN:23:ARG:CZ	14:CN:30:ALA:HB2	2.42	0.49
16:CP:53:VAL:HG12	16:CP:79:VAL:CG2	2.42	0.49
18:CR:31:LEU:O	18:CR:65:ILE:HD13	2.12	0.49
23:D1:70:VAL:O	23:D1:73:LEU:HB2	2.12	0.49
27:D5:42:PRO:O	27:D5:43:HIS:CB	2.56	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:184:C:C2	31:DA:185:U:C5	2.99	0.49
31:DA:271(G):C:H2'	31:DA:271(G):C:O2	2.11	0.49
31:DA:624:C:C2'	31:DA:625:G:H5'	2.42	0.49
31:DA:868:U:C4	31:DA:869:G:N7	2.79	0.49
31:DA:974:G:C4	31:DA:989:G:C2	2.99	0.49
31:DA:1468:C:O2'	31:DA:1469:A:H5'	2.12	0.49
31:DA:1593:G:C6	31:DA:1594:G:C5	3.00	0.49
31:DA:1718:G:C2	31:DA:1745:C:O2	2.64	0.49
31:DA:1799:G:O2'	31:DA:1800:C:OP2	2.25	0.49
31:DA:1811:G:C5	31:DA:1812:A:C8	3.00	0.49
31:DA:1849:G:N1	31:DA:1850:G:C5	2.80	0.49
31:DA:1972:A:H2'	31:DA:1973:G:C8	2.46	0.49
31:DA:2364:C:C2'	31:DA:2365:G:H5'	2.41	0.49
31:DA:2485:G:C2'	31:DA:2486:G:H5'	2.42	0.49
31:DA:2570:G:H2'	31:DA:2571:C:O4'	2.12	0.49
31:DA:2716:U:O2'	31:DA:2717:G:H5'	2.12	0.49
31:DA:2880:C:HO2'	43:DR:90:ARG:HD3	1.77	0.49
34:DE:52:LEU:HD13	34:DE:76:ARG:CG	2.42	0.49
36:DG:20:ILE:HG23	36:DG:25:TYR:HB2	1.93	0.49
36:DG:141:PHE:O	36:DG:143:GLU:N	2.45	0.49
37:DH:19:VAL:HB	37:DH:44:VAL:HG13	1.94	0.49
37:DH:32:GLU:O	37:DH:33:LEU:HD23	2.11	0.49
39:DN:128:HIS:HD2	39:DN:131:GLN:H	1.58	0.49
40:DO:2:ILE:HD11	40:DO:82:ASN:HB2	1.93	0.49
40:DO:63:VAL:HG23	40:DO:64:ARG:HG3	1.93	0.49
41:DP:112:LEU:H	41:DP:128:HIS:HD2	1.58	0.49
43:DR:28:LEU:HD22	43:DR:28:LEU:O	2.11	0.49
45:DT:48:ILE:HD12	45:DT:48:ILE:N	2.27	0.49
47:DV:47:VAL:CG1	47:DV:48:GLY:H	2.16	0.49
49:DX:21:PHE:CD1	49:DX:21:PHE:N	2.77	0.49
49:DX:40:LYS:HG3	49:DX:41:ASN:H	1.74	0.49
51:DZ:99:TYR:CE2	51:DZ:125:LEU:HD12	2.46	0.49
1:AA:79:G:H4'	1:AA:80:G:OP1	2.11	0.49
1:AA:236:G:C6	1:AA:237:C:C4	3.00	0.49
1:AA:655:A:C2'	1:AA:656:C:H5'	2.42	0.49
1:AA:763:G:H2'	1:AA:764:C:H6	1.77	0.49
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.12	0.49
1:AA:1250:A:H2	1:AA:1370:G:H1'	1.76	0.49
2:AB:17:PHE:CD1	2:AB:41:ILE:HG23	2.48	0.49
4:AD:181:MET:O	4:AD:181:MET:HG3	2.12	0.49
9:AI:48:GLU:H	9:AI:49:PRO:HD2	1.76	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:65:VAL:HG21	9:AI:73:GLN:HB3	1.94	0.49
12:AL:119:LYS:C	12:AL:120:TYR:HD1	2.15	0.49
13:AM:68:GLY:CA	13:AM:71:ARG:HB3	2.42	0.49
16:AP:53:VAL:HG12	16:AP:79:VAL:CG2	2.42	0.49
20:AT:104:LEU:O	20:AT:104:LEU:HD23	2.12	0.49
21:AU:6:ARG:O	21:AU:12:LYS:HD3	2.12	0.49
24:B2:45:SER:HA	24:B2:47:ASN:ND2	2.27	0.49
31:BA:10:G:N1	31:BA:2629:A:C8	2.80	0.49
31:BA:84:A:N1	31:BA:98:G:O2'	2.34	0.49
31:BA:389:G:N1	41:BP:71:VAL:HB	2.27	0.49
31:BA:773:U:H5''	33:BD:47:GLY:HA2	1.94	0.49
31:BA:797:C:H2'	31:BA:798:G:H8	1.76	0.49
31:BA:1048:A:OP2	31:BA:1110:G:N2	2.45	0.49
31:BA:1248:G:N2	35:BF:88:VAL:HG23	2.27	0.49
31:BA:1446:C:C6	31:BA:1446:C:H3'	2.46	0.49
31:BA:1462:C:H2'	31:BA:1462:C:O2	2.12	0.49
31:BA:1782:C:O4'	31:BA:2609:U:C2	2.64	0.49
31:BA:1805:U:O2'	31:BA:1806:C:H5'	2.12	0.49
31:BA:1850:G:H2'	31:BA:1851:U:H6	1.77	0.49
31:BA:1991:U:C2'	31:BA:1992:G:H5''	2.42	0.49
31:BA:2623:G:H2'	31:BA:2624:G:H8	1.77	0.49
31:BA:2674:G:H5''	40:BO:26:LYS:HE2	1.95	0.49
34:BE:111:ARG:CA	43:BR:2:ARG:HG3	2.36	0.49
35:BF:5:ALA:HB2	35:BF:24:LEU:HD11	1.94	0.49
35:BF:75:HIS:CE1	35:BF:82:ILE:HD12	2.47	0.49
36:BG:82:LEU:CB	36:BG:87:PRO:HG3	2.39	0.49
36:BG:94:LEU:CD1	36:BG:99:MET:HA	2.43	0.49
39:BN:71:ILE:HG22	39:BN:73:THR:H	1.77	0.49
41:BP:143:GLY:CA	41:BP:145:PRO:HD3	2.42	0.49
45:BT:30:VAL:HG22	45:BT:84:GLN:O	2.11	0.49
48:BW:92:ARG:O	48:BW:93:ALA:CB	2.59	0.49
50:BY:52:SER:C	50:BY:54:LYS:H	2.15	0.49
1:CA:276:G:H2'	1:CA:277:C:H5'	1.93	0.49
1:CA:458:C:H3'	1:CA:460:G:C8	2.48	0.49
1:CA:623:C:C4	1:CA:624:C:C5	3.00	0.49
1:CA:1058:G:H2'	1:CA:1059:C:O4'	2.12	0.49
1:CA:1099:G:H2'	1:CA:1099:G:N3	2.27	0.49
2:CB:178:ARG:NH1	2:CB:196:LEU:O	2.39	0.49
3:CC:173:VAL:HG13	3:CC:182:ILE:HD13	1.93	0.49
8:CH:10:LEU:HD23	8:CH:10:LEU:H	1.76	0.49
9:CI:5:TYR:CD2	9:CI:18:PHE:CE2	3.00	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:28:GLN:O	15:CO:31:LEU:HB2	2.12	0.49
18:CR:51:LEU:O	18:CR:63:GLN:NE2	2.45	0.49
24:D2:54:LYS:H	24:D2:56:GLN:HG2	1.77	0.49
27:D5:31:VAL:CG1	27:D5:42:PRO:HG3	2.42	0.49
31:DA:553:G:C6	31:DA:554:U:C4	2.99	0.49
31:DA:584:C:OP2	46:DU:10:ARG:NH2	2.45	0.49
31:DA:919:G:H4'	32:DB:81:G:H4'	1.94	0.49
31:DA:933:A:H2'	31:DA:934:G:C5'	2.42	0.49
31:DA:1260:G:H2'	31:DA:1261:C:C6	2.47	0.49
31:DA:1388:G:H2'	31:DA:1389:G:C8	2.45	0.49
31:DA:1439:A:C2	31:DA:1553:A:C4	3.00	0.49
31:DA:1462:C:O2	31:DA:1462:C:H2'	2.12	0.49
31:DA:1487:G:H2'	31:DA:1488:G:O5'	2.12	0.49
31:DA:1682:G:H2'	31:DA:1683:C:C6	2.47	0.49
31:DA:2375:G:O2'	31:DA:2377:A:N7	2.35	0.49
31:DA:2442:C:H2'	31:DA:2443:C:C6	2.47	0.49
31:DA:2477:C:C6	31:DA:2481:G:O6	2.65	0.49
31:DA:2485:G:H5''	42:DQ:46:GLN:NE2	2.27	0.49
33:DD:35:LYS:HG2	33:DD:64:ILE:CG2	2.42	0.49
34:DE:63:LEU:O	34:DE:64:LYS:C	2.50	0.49
34:DE:160:TYR:HD2	34:DE:161:GLY:N	2.10	0.49
36:DG:11:TYR:HD2	36:DG:12:TYR:CD1	2.30	0.49
38:DI:94:ALA:O	38:DI:98:ALA:HB2	2.12	0.49
39:DN:28:THR:HA	39:DN:106:MET:HE2	1.94	0.49
39:DN:134:ARG:O	39:DN:134:ARG:HG3	2.12	0.49
40:DO:93:PRO:HD3	40:DO:114:ILE:CD1	2.43	0.49
42:DQ:34:LEU:HB3	42:DQ:104:PHE:HB2	1.95	0.49
44:DS:80:LEU:HD12	44:DS:80:LEU:H	1.77	0.49
45:DT:20:PRO:O	45:DT:22:PHE:HD2	1.95	0.49
47:DV:93:GLU:HG2	47:DV:94:LEU:H	1.77	0.49
50:DY:41:GLY:O	50:DY:43:ASN:OD1	2.29	0.49
50:DY:81:LYS:HB3	50:DY:96:ILE:HG22	1.94	0.49
1:AA:224:C:C2	1:AA:225:C:C5	3.01	0.49
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.46	0.49
1:AA:523:A:N1	12:AL:92:ASP:HB2	2.28	0.49
1:AA:1116:C:C4	1:AA:1117:G:C8	3.00	0.49
1:AA:1501:C:H5''	1:AA:1502:A:OP2	2.12	0.49
2:AB:59:GLU:HB2	2:AB:221:LEU:CD1	2.42	0.49
4:AD:78:LEU:HD13	4:AD:97:LEU:HD23	1.94	0.49
7:AG:70:LYS:O	7:AG:138:LYS:HE3	2.12	0.49
9:AI:112:LYS:HA	9:AI:119:ALA:HA	1.94	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:50:ILE:HG12	14:AN:41:ARG:HD3	1.94	0.49
30:B8:27:THR:HA	41:BP:62:LEU:HD11	1.94	0.49
31:BA:68:G:C5	31:BA:69:C:C5	3.00	0.49
31:BA:83:G:H1	31:BA:102:G:H2'	1.76	0.49
31:BA:272(B):G:H2'	31:BA:272(C):G:H8	1.77	0.49
31:BA:318:C:H2'	31:BA:319:C:H6	1.77	0.49
31:BA:335:C:H2'	31:BA:336:C:H6	1.77	0.49
31:BA:449:A:H2'	31:BA:450:G:C5'	2.42	0.49
31:BA:548:A:O2'	31:BA:549:G:OP1	2.26	0.49
31:BA:1204:A:N1	31:BA:1241:A:C2	2.80	0.49
31:BA:1844:C:H2'	31:BA:1845:G:H8	1.77	0.49
31:BA:1886:C:H2'	31:BA:1887:C:C6	2.46	0.49
31:BA:2297:C:N3	31:BA:2320:A:C8	2.81	0.49
31:BA:2773:C:H2'	31:BA:2774:C:C6	2.47	0.49
34:BE:47:VAL:HG21	34:BE:84:PHE:CD1	2.47	0.49
41:BP:5:ASP:CG	41:BP:6:LEU:H	2.16	0.49
44:BS:28:VAL:O	44:BS:29:PHE:CB	2.60	0.49
44:BS:67:ARG:C	44:BS:69:VAL:H	2.15	0.49
45:BT:50:ILE:HD13	45:BT:64:ARG:HB3	1.95	0.49
45:BT:50:ILE:HA	45:BT:99:LEU:HD11	1.94	0.49
45:BT:58:ASN:C	45:BT:58:ASN:HD22	2.16	0.49
46:BU:5:LYS:O	46:BU:6:THR:C	2.51	0.49
47:BV:18:LEU:HD12	47:BV:98:GLU:OE1	2.12	0.49
47:BV:35:LEU:CD2	47:BV:61:VAL:HG22	2.42	0.49
48:BW:16:LYS:O	48:BW:19:LEU:HB2	2.12	0.49
50:BY:2:ARG:N	50:BY:4:LYS:HG2	2.27	0.49
50:BY:26:LYS:O	50:BY:28:LYS:N	2.44	0.49
51:BZ:19:ARG:NH1	51:BZ:84:GLU:OE2	2.45	0.49
1:CA:55:A:C5	1:CA:56:U:C4	3.01	0.49
1:CA:343:U:O2'	1:CA:346:G:O6	2.26	0.49
1:CA:392:G:O3'	16:CP:13:HIS:HE1	1.95	0.49
1:CA:495:A:H4'	1:CA:496:A:OP1	2.11	0.49
1:CA:561:U:HO2'	1:CA:562:C:P	2.35	0.49
1:CA:607:A:O2'	1:CA:608:A:H5'	2.12	0.49
1:CA:877:C:C5'	8:CH:88:LYS:HE3	2.36	0.49
1:CA:955:U:H2'	1:CA:956:U:H6	1.76	0.49
1:CA:1442:G:C6	1:CA:1442(B):A:C2	3.00	0.49
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.14	0.49
4:CD:57:ARG:NH2	5:CE:107:ARG:HD3	2.26	0.49
4:CD:90:GLY:O	4:CD:94:LEU:HG	2.12	0.49
4:CD:149:ALA:HB3	4:CD:152:SER:OG	2.12	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:62:GLN:C	11:CK:64:ALA:N	2.65	0.49
11:CK:127:LYS:HA	11:CK:127:LYS:HE2	1.94	0.49
15:CO:4:THR:OG1	15:CO:7:GLU:HB2	2.12	0.49
15:CO:69:TYR:HD1	15:CO:72:ARG:HH22	1.60	0.49
16:CP:8:ARG:HG2	16:CP:9:PHE:N	2.27	0.49
20:CT:56:MET:HG2	20:CT:84:LEU:HD13	1.95	0.49
22:D0:43:THR:HG22	31:DA:2331:G:O3'	2.12	0.49
24:D2:56:GLN:CA	24:D2:56:GLN:NE2	2.51	0.49
25:D3:11:SER:HB3	31:DA:988:A:P	2.53	0.49
27:D5:29:THR:O	27:D5:30:LEU:HD23	2.12	0.49
31:DA:34:C:O2'	31:DA:35:G:OP1	2.29	0.49
31:DA:152:G:H2'	31:DA:153:C:C6	2.48	0.49
31:DA:272(B):G:O2'	31:DA:272(C):G:O4'	2.31	0.49
31:DA:296:C:H2'	31:DA:297:C:C6	2.45	0.49
31:DA:460:A:C2	31:DA:470:A:C5	3.00	0.49
31:DA:471:A:H2'	31:DA:472:A:O5'	2.13	0.49
31:DA:662:G:O2'	31:DA:663:G:H5'	2.12	0.49
31:DA:810:U:C2	41:DP:31:ALA:O	2.66	0.49
31:DA:856:C:O2'	31:DA:857:C:P	2.70	0.49
31:DA:1006:C:H1'	39:DN:106:MET:HB3	1.93	0.49
31:DA:1399:C:O2'	31:DA:1400:G:H5'	2.12	0.49
31:DA:1409:C:O2'	31:DA:1410:G:H5'	2.12	0.49
31:DA:1419:A:O2'	31:DA:1421:G:N7	2.36	0.49
31:DA:1831:G:H2'	31:DA:1832:C:C6	2.47	0.49
31:DA:2094:G:H2'	31:DA:2094:G:N3	2.26	0.49
31:DA:2386:C:H2'	31:DA:2387:U:O4'	2.11	0.49
31:DA:2536:G:N7	31:DA:2537:U:C5	2.80	0.49
34:DE:66:HIS:O	34:DE:66:HIS:CG	2.66	0.49
36:DG:16:ARG:CA	36:DG:19:LEU:HD12	2.37	0.49
36:DG:120:LEU:O	36:DG:181:ARG:HB2	2.12	0.49
38:DI:64:GLU:O	38:DI:68:LEU:HB2	2.12	0.49
38:DI:113:ARG:HB3	38:DI:131:LYS:O	2.12	0.49
38:DI:136:VAL:O	38:DI:136:VAL:HG22	2.12	0.49
40:DO:13:ASN:ND2	40:DO:97:ARG:N	2.55	0.49
40:DO:69:ILE:HD12	40:DO:69:ILE:N	2.27	0.49
40:DO:98:VAL:CG1	40:DO:117:LEU:HB3	2.43	0.49
41:DP:89:ALA:C	41:DP:91:PHE:H	2.16	0.49
44:DS:88:ASP:O	44:DS:92:TYR:HD2	1.96	0.49
49:DX:21:PHE:CD2	49:DX:90:GLU:HA	2.46	0.49
1:AA:55:A:C5	1:AA:56:U:C5	3.01	0.49
1:AA:159:G:O2'	1:AA:161:A:N7	2.45	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:185:A:H2'	1:AA:186:C:C6	2.40	0.49
1:AA:190:U:O2	20:AT:105:SER:HB2	2.12	0.49
1:AA:581:G:N3	1:AA:582:U:C5	2.80	0.49
1:AA:785:G:C2'	1:AA:786:G:H5'	2.43	0.49
1:AA:805:C:O2'	1:AA:806:C:H5'	2.13	0.49
1:AA:839:U:H3'	1:AA:839:U:O2	2.13	0.49
1:AA:872:A:C2	1:AA:874:G:C5	3.00	0.49
1:AA:940:C:H2'	1:AA:941:G:C8	2.47	0.49
1:AA:1004:A:C2'	1:AA:1038:C:O2	2.57	0.49
1:AA:1330:U:C5'	1:AA:1331:G:O5'	2.60	0.49
3:AC:125:GLU:CD	3:AC:189:ALA:HA	2.33	0.49
4:AD:61:LYS:HB2	4:AD:203:VAL:HG13	1.95	0.49
5:AE:127:ASN:O	5:AE:128:PRO:C	2.49	0.49
6:AF:22:GLU:OE1	6:AF:84:ASN:HB2	2.12	0.49
8:AH:86:ILE:HG13	8:AH:133:LEU:CD1	2.42	0.49
9:AI:114:TYR:CE1	10:AJ:60:ARG:O	2.63	0.49
13:AM:7:VAL:O	13:AM:7:VAL:HG12	2.12	0.49
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.76	0.49
15:AO:36:ILE:CD1	15:AO:63:ARG:HD3	2.42	0.49
20:AT:80:ARG:O	20:AT:84:LEU:HB2	2.13	0.49
22:B0:43:THR:N	31:BA:2331:G:H4'	2.26	0.49
24:B2:28:LYS:HG3	24:B2:37:PHE:CE1	2.47	0.49
24:B2:32:LEU:HA	24:B2:37:PHE:HB2	1.94	0.49
25:B3:32:GLN:HB2	31:BA:1158:C:H4'	1.94	0.49
30:B8:30:ARG:O	30:B8:31:HIS:O	2.30	0.49
31:BA:198:C:H5'	31:BA:2244:U:OP1	2.12	0.49
31:BA:814:C:H5''	47:BV:86:GLY:HA3	1.93	0.49
31:BA:1005:C:O2	31:BA:1143:A:C6	2.65	0.49
31:BA:1288:U:H4'	31:BA:1289:C:OP2	2.13	0.49
31:BA:1461:G:N3	31:BA:1461:G:H2'	2.27	0.49
31:BA:2206:G:H3'	31:BA:2206:G:N3	2.27	0.49
31:BA:2377:A:H2'	31:BA:2378:A:C8	2.47	0.49
31:BA:2467:C:H2'	31:BA:2468:G:O4'	2.13	0.49
31:BA:2524:G:H1'	31:BA:2740:A:N1	2.27	0.49
31:BA:2826:A:C4	31:BA:2827:C:C6	3.01	0.49
33:BD:186:HIS:CD2	33:BD:187:GLY:H	2.30	0.49
34:BE:146:THR:HA	34:BE:147:PRO:C	2.33	0.49
35:BF:118:ALA:C	35:BF:120:GLU:H	2.15	0.49
36:BG:16:ARG:O	36:BG:20:ILE:HG13	2.12	0.49
38:BI:31:LEU:CD2	38:BI:38:LEU:HG	2.43	0.49
40:BO:34:THR:HG22	40:BO:37:ASP:OD2	2.11	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:13:HIS:CE1	43:BR:15:SER:OG	2.65	0.49
46:BU:50:ARG:CZ	47:BV:75:PHE:CE2	2.95	0.49
46:BU:83:LEU:CD1	46:BU:113:ALA:HB2	2.42	0.49
47:BV:72:VAL:HA	47:BV:88:ARG:HH22	1.71	0.49
1:CA:37:U:H2'	1:CA:38:G:O4'	2.12	0.49
1:CA:294:U:H2'	1:CA:295:C:H6	1.75	0.49
1:CA:396:G:H2'	1:CA:398:C:OP1	2.12	0.49
1:CA:437:U:C5	1:CA:438:G:N7	2.80	0.49
1:CA:818:G:C3'	1:CA:819:A:H5'	2.42	0.49
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.28	0.49
11:CK:73:MET:SD	11:CK:103:LEU:CD2	3.01	0.49
12:CL:25:PRO:O	12:CL:27:LEU:HD22	2.12	0.49
13:CM:103:THR:HB	13:CM:111:LYS:HE3	1.94	0.49
20:CT:12:ALA:H	20:CT:13:LEU:HD12	1.77	0.49
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.12	0.49
23:D1:15:ALA:HA	23:D1:46:LEU:HD21	1.93	0.49
24:D2:32:LEU:C	24:D2:32:LEU:HD12	2.31	0.49
24:D2:35:LEU:HD23	24:D2:35:LEU:H	1.77	0.49
27:D5:51:TYR:HB3	27:D5:52:TYR:CE2	2.47	0.49
31:DA:197:A:N6	31:DA:2430:A:H2'	2.28	0.49
31:DA:306:U:H2'	31:DA:307:G:O4'	2.11	0.49
31:DA:466:A:O4'	31:DA:683:C:H4'	2.12	0.49
31:DA:915:C:C5	31:DA:916:G:N7	2.80	0.49
31:DA:917:A:H2'	31:DA:918:A:O4'	2.12	0.49
31:DA:1131:G:C8	31:DA:2025:C:H4'	2.47	0.49
31:DA:1159:U:O2'	31:DA:1160:G:H5'	2.13	0.49
31:DA:1341:U:C3'	31:DA:1397:U:O2	2.60	0.49
31:DA:1408:C:C2	31:DA:1595:G:N2	2.80	0.49
31:DA:1684:C:C2	31:DA:1705:G:C2	3.01	0.49
31:DA:1750:G:O2'	31:DA:2860:A:N1	2.40	0.49
31:DA:1887:C:C3'	31:DA:1888:G:H5'	2.42	0.49
31:DA:2038:G:H2'	31:DA:2039:C:O4'	2.12	0.49
31:DA:2275:C:O2'	42:DQ:83:MET:CA	2.46	0.49
32:DB:10:C:C4	32:DB:11:C:C5	3.00	0.49
32:DB:28:C:OP1	44:DS:36:TYR:OH	2.24	0.49
33:DD:89:SER:HB2	33:DD:158:ALA:O	2.12	0.49
33:DD:182:LEU:HB3	33:DD:271:ILE:HD12	1.94	0.49
34:DE:110:GLY:HA2	34:DE:162:ALA:N	2.26	0.49
35:DF:118:ALA:O	35:DF:120:GLU:N	2.42	0.49
38:DI:72:LEU:HA	38:DI:75:LEU:HB3	1.95	0.49
38:DI:84:GLY:O	38:DI:85:GLU:CB	2.59	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:5:ASP:CG	41:DP:6:LEU:H	2.16	0.49
45:DT:38:ASN:HD22	45:DT:38:ASN:C	2.16	0.49
48:DW:88:ARG:HB3	48:DW:92:ARG:CB	2.35	0.49
49:DX:36:LYS:NZ	49:DX:38:GLU:C	2.65	0.49
50:DY:76:CYS:CB	50:DY:77:PRO:CD	2.90	0.49
1:AA:37:U:H2'	1:AA:38:G:O4'	2.12	0.49
1:AA:159:G:H2'	1:AA:161:A:OP2	2.12	0.49
1:AA:261:U:H2'	1:AA:263:A:OP2	2.13	0.49
1:AA:291:C:O2'	1:AA:292:G:H5'	2.13	0.49
1:AA:501:C:O2'	1:AA:502:G:H5'	2.12	0.49
1:AA:950:U:H2'	1:AA:951:G:H8	1.76	0.49
2:AB:17:PHE:HD1	2:AB:41:ILE:HG23	1.77	0.49
2:AB:29:ALA:C	2:AB:31:TYR:N	2.66	0.49
3:AC:186:PHE:CD1	3:AC:198:VAL:O	2.64	0.49
4:AD:47:ARG:NH2	4:AD:49:ARG:NH2	2.60	0.49
4:AD:52:SER:O	4:AD:54:TYR:N	2.44	0.49
4:AD:79:PHE:O	4:AD:82:ALA:HB3	2.12	0.49
4:AD:162:LEU:HD13	4:AD:181:MET:CE	2.42	0.49
5:AE:20:GLN:O	5:AE:21:ALA:C	2.50	0.49
5:AE:102:ALA:H	5:AE:107:ARG:HH12	1.60	0.49
5:AE:105:VAL:HG21	5:AE:128:PRO:HA	1.92	0.49
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.45	0.49
19:AS:10:PHE:CZ	19:AS:70:LYS:HE2	2.38	0.49
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.28	0.49
23:B1:25:LYS:C	23:B1:26:ARG:CG	2.80	0.49
23:B1:66:HIS:CE1	31:BA:372:G:H5'	2.48	0.49
31:BA:61:G:N2	31:BA:94:C:N3	2.54	0.49
31:BA:175:G:C2	31:BA:176:G:C4	3.01	0.49
31:BA:303:U:H2'	31:BA:304:G:H8	1.78	0.49
31:BA:452:G:C4	31:BA:458:G:C6	3.00	0.49
31:BA:1131:G:H8	31:BA:2025:C:H4'	1.77	0.49
31:BA:1131:G:OP1	39:BN:80:GLY:HA2	2.12	0.49
31:BA:1247:A:OP1	35:BF:95:ARG:NH2	2.39	0.49
31:BA:1790:C:H2'	31:BA:1791:A:C4	2.48	0.49
31:BA:1866:C:H2'	31:BA:1876:A:O4'	2.12	0.49
31:BA:1963:U:H2'	31:BA:1963:U:O2	2.11	0.49
31:BA:1997:G:O2'	31:BA:1998:G:H5'	2.12	0.49
31:BA:2197:U:C6	31:BA:2224:G:C6	3.00	0.49
31:BA:2306:C:C6	31:BA:2307:G:H1'	2.48	0.49
31:BA:2564:A:C5	31:BA:2565:A:C6	3.00	0.49
31:BA:2650:U:H2'	31:BA:2651:C:H6	1.73	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2653:U:C2'	31:BA:2654:A:OP1	2.60	0.49
31:BA:2662:A:H4'	31:BA:2663:G:O4'	2.12	0.49
31:BA:2732:G:H3'	31:BA:2733:A:C5'	2.42	0.49
31:BA:2786:U:C2	31:BA:2787:C:C5	3.00	0.49
55:BA:3362:TEL:O18	55:BA:3362:TEL:O32	2.30	0.49
33:BD:241:PRO:O	33:BD:242:ARG:HB2	2.11	0.49
38:BI:72:LEU:HA	38:BI:75:LEU:HB3	1.95	0.49
41:BP:105:LEU:H	41:BP:105:LEU:CD1	2.20	0.49
42:BQ:73:PRO:HA	42:BQ:93:TYR:CD2	2.47	0.49
45:BT:18:ASP:OD1	45:BT:19:LEU:HG	2.13	0.49
45:BT:109:GLU:CA	45:BT:112:ARG:HG3	2.39	0.49
46:BU:68:ALA:O	46:BU:71:GLN:HB2	2.11	0.49
46:BU:80:ILE:HG22	46:BU:81:HIS:N	2.28	0.49
47:BV:36:PRO:HD3	47:BV:60:GLU:O	2.11	0.49
49:BX:38:GLU:OE1	49:BX:38:GLU:CA	2.61	0.49
49:BX:82:GLN:HB3	49:BX:85:PRO:HG2	1.95	0.49
1:CA:352:C:O2'	1:CA:354:G:OP1	2.25	0.49
1:CA:376:G:H4'	16:CP:5:ARG:NH1	2.26	0.49
1:CA:407:G:C6	1:CA:436:C:N4	2.77	0.49
1:CA:1133:G:N3	1:CA:1142:G:N2	2.59	0.49
1:CA:1191:A:P	3:CC:3:ASN:HD21	2.36	0.49
1:CA:1313:U:H3	1:CA:1324:A:H61	1.60	0.49
1:CA:1504:G:C4'	1:CA:1505:G:OP2	2.61	0.49
2:CB:17:PHE:CD1	2:CB:41:ILE:HG23	2.48	0.49
2:CB:221:LEU:HD13	2:CB:221:LEU:O	2.12	0.49
4:CD:108:LEU:HD11	4:CD:174:LEU:CD2	2.43	0.49
6:CF:55:ASP:HB2	6:CF:86:ARG:HH12	1.77	0.49
9:CI:121:ARG:HD3	9:CI:122:ALA:O	2.13	0.49
10:CJ:8:LEU:HB2	10:CJ:70:ARG:O	2.13	0.49
11:CK:105:VAL:O	11:CK:106:LYS:C	2.49	0.49
13:CM:10:PRO:HG2	13:CM:18:ALA:HB1	1.93	0.49
21:CU:6:ARG:HG2	21:CU:15:ARG:NH1	2.27	0.49
22:D0:56:ASP:OD2	31:DA:2364:C:H4'	2.13	0.49
30:D8:32:LEU:HD22	31:DA:2419:U:O5'	2.12	0.49
31:DA:271(Q):G:O2'	31:DA:271(R):G:H8	1.93	0.49
31:DA:756:C:C4	31:DA:757:U:C5	3.00	0.49
31:DA:1142(A):A:C4	31:DA:1144:G:C8	3.01	0.49
31:DA:1198:U:H2'	31:DA:1199:U:H6	1.74	0.49
31:DA:1213:A:O2'	31:DA:1214:A:H5'	2.12	0.49
31:DA:1225:G:OP1	47:DV:88:ARG:CB	2.61	0.49
31:DA:1547:C:H2'	31:DA:1548:C:C6	2.48	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1688:U:O2	31:DA:1700:A:H8	1.95	0.49
31:DA:1741:A:N3	31:DA:1742:G:N2	2.60	0.49
31:DA:2043:C:H1'	31:DA:2779:U:O4	2.11	0.49
31:DA:2584:U:O2	31:DA:2584:U:O4'	2.29	0.49
31:DA:2649:U:C2	31:DA:2672:G:N2	2.80	0.49
31:DA:2698:U:H2'	31:DA:2699:C:C6	2.47	0.49
31:DA:2722:G:O3'	43:DR:5:LYS:HG2	2.12	0.49
32:DB:66:A:C4	32:DB:109:C:C4	3.01	0.49
32:DB:82:G:H2'	32:DB:83:G:H5'	1.94	0.49
32:DB:117:G:N3	32:DB:118:G:C8	2.80	0.49
33:DD:43:ARG:NH1	33:DD:44:ASN:ND2	2.60	0.49
33:DD:126:GLN:C	33:DD:193:VAL:HG11	2.33	0.49
34:DE:2:LYS:HB3	34:DE:95:ILE:CG2	2.41	0.49
34:DE:52:LEU:HD22	34:DE:76:ARG:CD	2.43	0.49
39:DN:32:THR:O	39:DN:35:ARG:O	2.31	0.49
39:DN:40:PRO:CA	46:DU:64:ARG:HH22	2.26	0.49
40:DO:87:ILE:CG2	40:DO:88:ASN:N	2.75	0.49
41:DP:10:PRO:HD2	41:DP:11:GLY:H	1.78	0.49
42:DQ:42:ILE:HD13	42:DQ:97:VAL:CB	2.42	0.49
42:DQ:54:MET:SD	42:DQ:118:LEU:HD23	2.52	0.49
44:DS:99:LYS:O	44:DS:106:ARG:NH1	2.42	0.49
45:DT:50:ILE:HA	45:DT:99:LEU:CD1	2.42	0.49
45:DT:80:SER:CB	45:DT:81:PRO:HD3	2.37	0.49
48:DW:75:TYR:CD1	48:DW:75:TYR:N	2.79	0.49
1:AA:243:A:C2	1:AA:246:A:C8	3.01	0.49
1:AA:458:C:H3'	1:AA:460:G:H8	1.77	0.49
1:AA:658:G:C6	1:AA:749:C:N4	2.80	0.49
1:AA:701:C:OP1	1:AA:702:A:H2'	2.11	0.49
1:AA:790:A:N1	1:AA:1497:G:H5''	2.28	0.49
1:AA:991:U:O2'	1:AA:992:U:OP2	2.31	0.49
1:AA:1089:G:C6	1:AA:1090:U:C4	3.00	0.49
1:AA:1365:G:C6	1:AA:1366:C:C4	3.00	0.49
1:AA:1386:G:C2	1:AA:1387:G:N7	2.81	0.49
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.12	0.49
1:AA:1442(A):G:H3'	1:AA:1442(B):A:C5'	2.41	0.49
8:AH:38:ILE:HD11	8:AH:118:VAL:O	2.11	0.49
13:AM:86:CYS:SG	13:AM:89:GLY:HA3	2.52	0.49
15:AO:28:GLN:O	15:AO:31:LEU:HB2	2.12	0.49
30:B8:3:LYS:HE3	31:BA:242:G:O5'	2.13	0.49
30:B8:32:LEU:O	30:B8:33:ASN:HB2	2.12	0.49
31:BA:303:U:H2'	31:BA:304:G:C8	2.47	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:933:A:H2'	31:BA:934:G:C5'	2.42	0.49
31:BA:1152:C:H5''	46:BU:80:ILE:CG2	2.43	0.49
31:BA:1175:U:C4'	31:BA:1176:G:H2'	2.42	0.49
31:BA:1296:G:O2'	31:BA:1297:C:H5'	2.13	0.49
31:BA:1301:A:C4	31:BA:1303:G:N7	2.81	0.49
31:BA:1327:C:H2'	31:BA:1328:G:O4'	2.13	0.49
31:BA:1545:A:H2'	31:BA:1546:C:C5'	2.42	0.49
31:BA:1914:C:C5	31:BA:1915:U:C2	3.01	0.49
31:BA:2438:U:H5''	31:BA:2600:A:OP1	2.13	0.49
31:BA:2522:U:O2'	31:BA:2647:U:H5''	2.12	0.49
31:BA:2572:A:N7	34:BE:145:LYS:HB2	2.27	0.49
31:BA:2773:C:H2'	31:BA:2774:C:H6	1.76	0.49
31:BA:2854:G:C5	31:BA:2855:C:C5	3.01	0.49
31:BA:2863:C:OP1	45:BT:93:ARG:NH1	2.46	0.49
32:BB:21:G:C6	32:BB:63:G:N1	2.81	0.49
33:BD:232:PRO:HG2	33:BD:248:SER:O	2.13	0.49
33:BD:253:GLN:CB	33:BD:255:LYS:HZ3	2.26	0.49
41:BP:85:LEU:HA	41:BP:88:LEU:CB	2.41	0.49
42:BQ:54:MET:HG3	42:BQ:117:ALA:HB1	1.94	0.49
44:BS:90:GLY:N	44:BS:91:PRO:HD2	2.26	0.49
45:BT:98:LYS:HG2	45:BT:100:TYR:OH	2.11	0.49
46:BU:8:VAL:O	46:BU:12:ARG:HG3	2.13	0.49
47:BV:5:VAL:HG21	47:BV:36:PRO:HB2	1.93	0.49
47:BV:51:VAL:HG12	47:BV:52:VAL:N	2.27	0.49
50:BY:18:GLY:O	50:BY:19:LYS:C	2.50	0.49
50:BY:87:LYS:HG3	50:BY:88:LYS:N	2.27	0.49
51:BZ:3:TYR:O	51:BZ:57:ILE:HA	2.12	0.49
51:BZ:5:LEU:HD12	51:BZ:47:VAL:HG23	1.94	0.49
1:CA:256:U:H2'	1:CA:257:G:C8	2.47	0.49
1:CA:324:G:H8	1:CA:324:G:O5'	1.94	0.49
1:CA:391:G:O3'	16:CP:8:ARG:NH2	2.46	0.49
1:CA:853:G:C4	1:CA:854:G:C8	3.00	0.49
1:CA:854:G:H3'	1:CA:871:U:O4	2.12	0.49
3:CC:44:GLU:HA	3:CC:52:LEU:HD21	1.93	0.49
4:CD:11:LEU:C	4:CD:13:ARG:N	2.64	0.49
4:CD:43:HIS:O	4:CD:45:GLN:N	2.46	0.49
7:CG:50:ILE:O	7:CG:54:THR:O	2.31	0.49
8:CH:14:ARG:O	8:CH:18:ARG:HD3	2.12	0.49
11:CK:41:THR:HG22	11:CK:42:TRP:N	2.27	0.49
16:CP:23:ASP:O	16:CP:24:ALA:C	2.51	0.49
17:CQ:60:ILE:HG23	17:CQ:62:SER:OG	2.13	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:45:VAL:O	19:CS:45:VAL:HG23	2.13	0.49
20:CT:104:LEU:O	20:CT:104:LEU:HD23	2.12	0.49
21:CU:12:LYS:HG3	21:CU:17:THR:O	2.13	0.49
23:D1:10:LYS:O	23:D1:13:ILE:CG2	2.61	0.49
23:D1:28:GLY:C	23:D1:30:VAL:N	2.65	0.49
24:D2:15:LYS:HA	24:D2:18:PRO:CD	2.43	0.49
24:D2:48:HIS:NE2	31:DA:75:G:H4'	2.28	0.49
31:DA:58:G:OP1	49:DX:72:LYS:HB2	2.11	0.49
31:DA:627:A:C5	31:DA:637:A:N7	2.80	0.49
31:DA:696:G:O2'	31:DA:697:C:H5'	2.12	0.49
31:DA:1008:C:N4	31:DA:1136:G:C6	2.81	0.49
31:DA:1450(A):C:N3	31:DA:1451:C:N4	2.61	0.49
31:DA:1458:C:O4'	31:DA:1458:C:O2	2.30	0.49
31:DA:2052:G:O4'	34:DE:142:GLY:HA3	2.13	0.49
31:DA:2436:G:C5	31:DA:2437:U:C5	3.00	0.49
31:DA:2518:A:H5'	31:DA:2518:A:C8	2.47	0.49
31:DA:2526:G:C6	31:DA:2527:C:C4	3.00	0.49
33:DD:131:LEU:HB2	33:DD:136:ILE:CD1	2.38	0.49
34:DE:103:ASP:OD2	34:DE:168:MET:HE1	2.12	0.49
35:DF:41:LEU:O	35:DF:44:ARG:HG2	2.12	0.49
35:DF:182:ASN:O	35:DF:186:ILE:HG13	2.13	0.49
37:DH:89:ILE:HD12	37:DH:89:ILE:H	1.75	0.49
41:DP:34:GLY:O	41:DP:35:HIS:C	2.51	0.49
43:DR:30:THR:HG22	43:DR:30:THR:O	2.11	0.49
47:DV:2:PHE:HD2	47:DV:42:GLY:HA2	1.77	0.49
1:AA:473:G:H2'	1:AA:474:G:H8	1.76	0.49
1:AA:512:U:H2'	1:AA:513:C:H6	1.77	0.49
1:AA:620:C:C2'	1:AA:621:A:H5'	2.43	0.49
1:AA:665:A:H1'	1:AA:733:A:O4'	2.13	0.49
1:AA:730:G:C5	1:AA:731:G:H1'	2.48	0.49
1:AA:816:A:OP2	1:AA:1527:C:H5'	2.12	0.49
1:AA:981:U:O4	1:AA:1222:G:O6	2.30	0.49
1:AA:1068:G:N3	1:AA:1191:A:C2	2.80	0.49
1:AA:1076:C:C2	1:AA:1082:G:C2	3.01	0.49
1:AA:1086:U:H2'	1:AA:1087:G:O4'	2.13	0.49
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.77	0.49
1:AA:1412:C:C2	1:AA:1489:G:N2	2.80	0.49
1:AA:1423:G:OP1	40:BO:48:PRO:HG3	2.12	0.49
2:AB:54:THR:O	2:AB:57:PHE:HB3	2.12	0.49
3:AC:91:LEU:HD11	3:AC:101:LEU:HD12	1.93	0.49
4:AD:173:TRP:CE3	4:AD:193:ASP:HB3	2.48	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:20:ALA:O	6:AF:23:LYS:HB2	2.13	0.49
7:AG:49:ILE:HG22	7:AG:49:ILE:O	2.13	0.49
12:AL:102:ARG:HD2	12:AL:108:ALA:O	2.13	0.49
13:AM:103:THR:HB	13:AM:111:LYS:HE3	1.94	0.49
18:AR:51:LEU:O	18:AR:63:GLN:NE2	2.46	0.49
23:B1:23:LYS:O	23:B1:37:ILE:HG22	2.11	0.49
24:B2:55:ARG:C	24:B2:56:GLN:HE21	2.16	0.49
27:B5:19:ARG:HA	31:BA:2046:G:O5'	2.13	0.49
27:B5:55:ARG:CG	27:B5:56:LYS:H	2.25	0.49
30:B8:6:THR:HG22	30:B8:62:LEU:HD12	1.95	0.49
30:B8:62:LEU:N	30:B8:63:PRO:CD	2.75	0.49
31:BA:136:G:C2'	31:BA:137:C:O5'	2.61	0.49
31:BA:483:A:H2'	31:BA:484:C:H5'	1.94	0.49
31:BA:753:C:O5'	31:BA:753:C:C6	2.65	0.49
31:BA:780:G:H21	31:BA:783:A:H62	1.59	0.49
31:BA:1141:U:H4'	31:BA:1142(A):A:O4'	2.12	0.49
31:BA:1444:G:C2	31:BA:1548:C:C2	3.01	0.49
31:BA:1562:A:H2'	31:BA:1563:G:H8	1.77	0.49
31:BA:1722:A:C5	31:BA:1741:A:C6	3.01	0.49
31:BA:1767:C:C2'	31:BA:1768:U:H5'	2.43	0.49
31:BA:1769:G:C5	31:BA:1984:G:C6	3.00	0.49
31:BA:1921:G:C4	31:BA:1922:G:C8	3.00	0.49
31:BA:2025:C:H2'	31:BA:2026:C:H6	1.77	0.49
31:BA:2233:U:H2'	31:BA:2234:G:C8	2.48	0.49
31:BA:2516:G:C5	31:BA:2517:C:C4	2.99	0.49
31:BA:2520:C:C6	31:BA:2567:G:H1'	2.48	0.49
32:BB:24:G:N2	32:BB:56:G:H22	2.11	0.49
36:BG:45:GLU:HB2	36:BG:47:LYS:CD	2.43	0.49
39:BN:128:HIS:O	39:BN:130:HIS:HB3	2.12	0.49
41:BP:101:VAL:O	41:BP:103:ALA:N	2.46	0.49
42:BQ:27:VAL:HG21	42:BQ:134:ARG:HA	1.95	0.49
43:BR:4:LEU:O	43:BR:6:SER:N	2.43	0.49
48:BW:47:VAL:O	48:BW:50:VAL:HG12	2.13	0.49
49:BX:84:ALA:O	49:BX:86:GLY:N	2.46	0.49
51:BZ:3:TYR:CG	51:BZ:51:ALA:HB2	2.48	0.49
1:CA:103:C:C2	1:CA:104:G:C8	3.01	0.49
1:CA:124:G:H1	1:CA:237:C:H42	1.60	0.49
1:CA:155:C:H2'	1:CA:156:G:C8	2.48	0.49
1:CA:477:A:C2'	1:CA:479:C:H5'	2.43	0.49
1:CA:577:G:C8	1:CA:816:A:N1	2.81	0.49
1:CA:655:A:C2'	1:CA:656:C:H5'	2.42	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:920:U:H2'	1:CA:922:G:C6	2.47	0.49
1:CA:954:G:N2	1:CA:1227:A:H62	1.98	0.49
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.86	0.49
2:CB:114:ARG:O	2:CB:114:ARG:HD3	2.12	0.49
2:CB:204:ASN:HB3	2:CB:210:SER:HB3	1.94	0.49
4:CD:78:LEU:HD13	4:CD:97:LEU:HD23	1.94	0.49
4:CD:134:ASP:O	4:CD:136:PRO:HD3	2.12	0.49
4:CD:148:VAL:HG13	4:CD:152:SER:HB2	1.95	0.49
7:CG:4:ARG:HD3	7:CG:5:ARG:NH1	2.28	0.49
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.43	0.49
12:CL:92:ASP:O	12:CL:93:LEU:HD23	2.13	0.49
19:CS:15:LEU:HD13	19:CS:31:ILE:HD11	1.94	0.49
20:CT:80:ARG:O	20:CT:84:LEU:HB2	2.13	0.49
22:D0:51:VAL:HG21	22:D0:79:VAL:HG12	1.94	0.49
28:D6:13:CYS:HB2	28:D6:22:ALA:HB3	1.94	0.49
29:D7:40:TRP:CD2	31:DA:459:U:C5'	2.95	0.49
31:DA:194:G:C6	31:DA:195:A:C5	3.00	0.49
31:DA:718:A:H3'	31:DA:719:C:H6	1.78	0.49
31:DA:778:G:C6	31:DA:779:U:C4	3.00	0.49
31:DA:811:U:P	41:DP:25:SER:O	2.71	0.49
31:DA:1153:C:OP1	46:DU:93:LYS:NZ	2.46	0.49
31:DA:1411:C:H6	31:DA:1411:C:O5'	1.95	0.49
31:DA:1487:G:C2	31:DA:1488:G:C4	3.00	0.49
31:DA:1497:U:O2	31:DA:1497:U:C2'	2.60	0.49
31:DA:1782:C:O4'	31:DA:2609:U:C2	2.66	0.49
31:DA:1956:U:H2'	31:DA:1957:C:C5'	2.42	0.49
31:DA:2572:A:C8	34:DE:144:ARG:HB3	2.47	0.49
31:DA:2628:C:O2'	31:DA:2781:A:H3'	2.12	0.49
32:DB:38:C:H2'	32:DB:39:A:O4'	2.13	0.49
32:DB:78:A:H2'	32:DB:79:C:O4'	2.11	0.49
33:DD:108:PRO:HD2	33:DD:111:LEU:HD22	1.94	0.49
34:DE:170:LEU:N	34:DE:170:LEU:CD1	2.75	0.49
35:DF:7:TYR:HB3	35:DF:16:GLY:CA	2.43	0.49
42:DQ:43:THR:OG1	42:DQ:45:GLN:HG2	2.13	0.49
44:DS:63:THR:CA	44:DS:66:ALA:HB3	2.34	0.49
47:DV:72:VAL:HG12	47:DV:88:ARG:NH2	2.28	0.49
50:DY:76:CYS:HB3	50:DY:77:PRO:CD	2.43	0.49
51:DZ:10:ARG:NH2	51:DZ:26:GLY:O	2.44	0.49
1:AA:120:A:C6	1:AA:122:G:C2	3.01	0.49
1:AA:193:C:H4'	20:AT:61:SER:HB2	1.95	0.49
1:AA:236:G:H2'	1:AA:237:C:H6	1.76	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:258:G:C2	1:AA:259:G:C5	3.00	0.49
1:AA:407:G:C6	1:AA:436:C:N4	2.77	0.49
1:AA:458:C:H2'	1:AA:460:G:H8	1.78	0.49
1:AA:502:G:OP1	12:AL:117:ARG:N	2.45	0.49
1:AA:509:A:O2'	1:AA:510:A:P	2.71	0.49
1:AA:570:G:H2'	1:AA:571:U:C6	2.48	0.49
1:AA:659:U:N3	1:AA:660:G:N7	2.60	0.49
1:AA:728:A:C5	15:AO:54:ARG:HD2	2.48	0.49
1:AA:960:U:C5	1:AA:1225:A:H1'	2.47	0.49
1:AA:1150:U:C4	1:AA:1151:A:N7	2.80	0.49
1:AA:1423:G:H2'	1:AA:1424:C:O4'	2.13	0.49
3:AC:44:GLU:HA	3:AC:52:LEU:HD21	1.94	0.49
5:AE:78:HIS:HE1	5:AE:142:LEU:HA	1.78	0.49
7:AG:66:VAL:O	7:AG:70:LYS:HG3	2.13	0.49
7:AG:73:MET:HA	7:AG:91:VAL:HG23	1.94	0.49
18:AR:72:ARG:O	18:AR:75:ILE:N	2.45	0.49
22:B0:10:THR:HG23	31:BA:2277:G:OP2	2.12	0.49
24:B2:35:LEU:HD23	24:B2:35:LEU:H	1.76	0.49
27:B5:2:ALA:N	31:BA:2015:A:N3	2.60	0.49
30:B8:12:LYS:HG2	41:BP:68:GLN:NE2	2.28	0.49
30:B8:40:GLU:O	30:B8:41:ILE:C	2.51	0.49
31:BA:34:C:O2'	31:BA:35:G:OP1	2.31	0.49
31:BA:64:A:C6	31:BA:65:C:C4	3.01	0.49
31:BA:78:A:H2'	31:BA:79:G:C8	2.48	0.49
31:BA:246:C:C2'	31:BA:247:G:H5'	2.43	0.49
31:BA:266:G:H2'	31:BA:267:C:O5'	2.13	0.49
31:BA:466:A:N3	31:BA:683:C:H1'	2.27	0.49
31:BA:478:A:N6	31:BA:502:A:H62	2.11	0.49
31:BA:756:C:C2'	31:BA:757:U:H5'	2.42	0.49
31:BA:812:C:H5''	31:BA:1250:G:O2'	2.12	0.49
31:BA:1176:G:C1'	31:BA:1177:A:OP1	2.61	0.49
31:BA:1221:C:H2'	31:BA:1221(A):C:H6	1.78	0.49
31:BA:1404:C:C6	31:BA:1404:C:H5''	2.48	0.49
31:BA:1528:A:O2'	31:BA:1528(A):A:C8	2.61	0.49
31:BA:1572:A:H8	31:BA:1572:A:O5'	1.96	0.49
31:BA:2309:A:N3	31:BA:2310:A:C2	2.80	0.49
31:BA:2500:U:H2'	31:BA:2504:U:C5	2.47	0.49
36:BG:11:TYR:O	36:BG:16:ARG:HG2	2.12	0.49
38:BI:130:TYR:HB2	38:BI:136:VAL:HG13	1.94	0.49
39:BN:83:LYS:HE2	39:BN:85:ILE:CD1	2.39	0.49
40:BO:9:GLU:HB3	40:BO:83:ALA:HB2	1.94	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:107:ARG:HH11	45:BT:35:LYS:HB2	1.78	0.49
46:BU:93:LYS:CD	46:BU:93:LYS:N	2.71	0.49
47:BV:90:PRO:CG	47:BV:91:TYR:H	2.24	0.49
1:CA:154:C:H2'	1:CA:155:C:C6	2.45	0.49
1:CA:321:A:N7	1:CA:328:C:O2'	2.33	0.49
1:CA:542:G:H2'	1:CA:543:C:C6	2.43	0.49
1:CA:683:G:C6	1:CA:684:A:C5	3.01	0.49
1:CA:877:C:H5''	8:CH:88:LYS:CE	2.36	0.49
1:CA:971:G:H3'	1:CA:971:G:OP1	2.13	0.49
1:CA:1423:G:H2'	1:CA:1424:C:O4'	2.13	0.49
4:CD:205:GLU:CD	5:CE:107:ARG:HH21	2.15	0.49
5:CE:20:GLN:O	5:CE:21:ALA:C	2.51	0.49
8:CH:6:ILE:CG2	8:CH:85:ARG:HH12	2.24	0.49
8:CH:80:ILE:HG22	8:CH:80:ILE:O	2.13	0.49
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	2.27	0.49
11:CK:22:HIS:O	11:CK:28:THR:HG23	2.12	0.49
23:D1:23:LYS:O	23:D1:37:ILE:HG22	2.13	0.49
31:DA:271(S):G:H2'	31:DA:271(T):C:O4'	2.12	0.49
31:DA:358:U:H6	31:DA:358:U:H3'	1.78	0.49
31:DA:699:A:H4'	31:DA:1634:A:N7	2.27	0.49
31:DA:953:A:C2	31:DA:954:G:C8	3.01	0.49
31:DA:985:C:O2'	31:DA:986:C:H5'	2.13	0.49
31:DA:1323:U:C2'	31:DA:1324:G:H5'	2.43	0.49
31:DA:1798:U:HO2'	31:DA:1802:A:HO2'	1.61	0.49
31:DA:2208:A:O2'	31:DA:2218:U:P	2.70	0.49
31:DA:2392:A:H2	31:DA:2424:C:N4	2.07	0.49
31:DA:2564:A:C5	31:DA:2565:A:C6	3.01	0.49
31:DA:2712(A):A:H5''	31:DA:2713:A:OP2	2.13	0.49
55:DA:3320:TEL:O18	55:DA:3320:TEL:O32	2.30	0.49
34:DE:65:GLY:HA2	34:DE:70:ALA:HB2	1.95	0.49
37:DH:70:THR:O	37:DH:71:LEU:C	2.50	0.49
38:DI:93:THR:HG22	38:DI:119:PRO:HB3	1.93	0.49
41:DP:112:LEU:H	41:DP:128:HIS:CD2	2.31	0.49
44:DS:56:LEU:O	44:DS:57:LYS:HB2	2.13	0.49
51:DZ:52:SER:OG	51:DZ:54:HIS:HD2	1.95	0.49
1:AA:41:G:C6	1:AA:402:G:C6	3.01	0.49
1:AA:358:U:N3	1:AA:359:U:C4	2.81	0.49
1:AA:408:A:C6	1:AA:409:G:C5	3.01	0.49
1:AA:518:C:C5	1:AA:530:G:C8	3.01	0.49
1:AA:646:U:H2'	1:AA:647:C:C6	2.48	0.49
1:AA:973:G:O4'	10:AJ:55:LYS:HG2	2.12	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1061:G:C4	1:AA:1197:G:N2	2.81	0.49
1:AA:1207:G:H2'	1:AA:1208:C:C6	2.47	0.49
1:AA:1287:A:H2	1:AA:1353:G:N3	2.11	0.49
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.86	0.49
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.78	0.49
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	1.95	0.49
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE1	2.48	0.49
14:AN:24:CYS:SG	14:AN:40:CYS:HB3	2.51	0.49
27:B5:52:TYR:O	27:B5:53:ALA:C	2.50	0.49
28:B6:24:GLU:OE1	28:B6:24:GLU:CA	2.49	0.49
31:BA:74:A:H4'	31:BA:75:G:O5'	2.12	0.49
31:BA:142:A:H5''	31:BA:142(A):C:H5	1.76	0.49
31:BA:232:G:H22	31:BA:420:C:H5''	1.77	0.49
31:BA:236:C:H2'	31:BA:237:C:C6	2.48	0.49
31:BA:292:C:C2	31:BA:349:G:N2	2.80	0.49
31:BA:671:C:OP1	41:BP:43:GLY:HA2	2.13	0.49
31:BA:1275:A:N3	31:BA:1276:A:H1'	2.27	0.49
31:BA:1450(A):C:N4	31:BA:1451:C:H41	2.11	0.49
31:BA:1799:G:H4'	31:BA:1800:C:O5'	2.12	0.49
31:BA:1925:C:C2'	31:BA:1926:U:H5'	2.43	0.49
31:BA:2092:U:H4'	31:BA:2093:G:C5'	2.42	0.49
31:BA:2199:A:H5''	31:BA:2200:C:OP2	2.13	0.49
31:BA:2297:C:C2'	31:BA:2298:A:H5'	2.43	0.49
31:BA:2386:C:H2'	31:BA:2387:U:O4'	2.13	0.49
31:BA:2688:U:O2	31:BA:2688:U:O5'	2.30	0.49
33:BD:17:THR:HG23	33:BD:205:VAL:N	2.22	0.49
33:BD:32:SER:HA	33:BD:36:PRO:HD3	1.94	0.49
35:BF:57:VAL:HG11	35:BF:59:TYR:CD1	2.47	0.49
36:BG:20:ILE:HG23	36:BG:25:TYR:HB2	1.93	0.49
38:BI:101:LEU:HD23	38:BI:109:ILE:HG21	1.94	0.49
40:BO:115:VAL:HG12	40:BO:116:SER:N	2.27	0.49
41:BP:66:GLY:O	41:BP:67:MET:O	2.31	0.49
41:BP:112:LEU:H	41:BP:128:HIS:HD2	1.60	0.49
44:BS:56:LEU:O	44:BS:57:LYS:HB2	2.12	0.49
46:BU:14:HIS:O	46:BU:15:LYS:C	2.51	0.49
48:BW:75:TYR:HE1	48:BW:104:THR:CG2	2.25	0.49
50:BY:40:GLU:HA	50:BY:40:GLU:OE2	2.13	0.49
1:CA:16:A:N1	1:CA:919:A:H2	2.10	0.49
1:CA:189:G:O6	1:CA:189(L):G:C6	2.66	0.49
1:CA:253:U:H2'	1:CA:254:G:C8	2.47	0.49
1:CA:458:C:H3'	1:CA:460:G:H8	1.77	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:511:C:N3	1:CA:512:U:C4	2.81	0.49
1:CA:541:G:H2'	1:CA:542:G:C8	2.40	0.49
1:CA:924:C:H5'	1:CA:1399:C:OP2	2.13	0.49
1:CA:938:A:C6	1:CA:939:G:C5	3.00	0.49
1:CA:1160:G:H2'	1:CA:1160:G:N3	2.28	0.49
1:CA:1386:G:H2'	1:CA:1387:G:H8	1.78	0.49
1:CA:1429:C:H2'	1:CA:1430:C:H6	1.77	0.49
2:CB:20:GLU:HG3	2:CB:189:ASP:OD2	2.13	0.49
6:CF:75:LEU:O	6:CF:79:LEU:HG	2.13	0.49
8:CH:44:PHE:HE2	8:CH:109:ILE:HG21	1.78	0.49
10:CJ:24:VAL:O	10:CJ:28:ARG:HG3	2.12	0.49
13:CM:7:VAL:HG12	13:CM:7:VAL:O	2.12	0.49
16:CP:28:ARG:CG	16:CP:28:ARG:NH1	2.67	0.49
17:CQ:5:VAL:CG1	17:CQ:6:LEU:N	2.75	0.49
24:D2:18:PRO:O	24:D2:22:GLU:HB2	2.13	0.49
24:D2:24:LEU:O	24:D2:27:GLU:HB2	2.12	0.49
27:D5:2:ALA:HB3	31:DA:747:U:N1	2.28	0.49
28:D6:15:GLU:CD	28:D6:18:ARG:HG3	2.33	0.49
31:DA:251:A:OP1	41:DP:50:ARG:HD2	2.12	0.49
31:DA:340:A:H2'	31:DA:341:G:H5'	1.95	0.49
31:DA:354:G:C6	31:DA:355:G:C5	3.01	0.49
31:DA:557:U:O2	39:DN:45:ASN:HB2	2.13	0.49
31:DA:579:G:C4	31:DA:580:C:C5	3.01	0.49
31:DA:645:C:H3'	31:DA:645:C:O2	2.13	0.49
31:DA:1142(A):A:C5	31:DA:1144:G:C5	3.00	0.49
31:DA:1170:G:H8	31:DA:1170:G:OP2	1.96	0.49
31:DA:1296:G:O2'	31:DA:1297:C:H5'	2.13	0.49
31:DA:1412:A:H3'	31:DA:1413:G:C8	2.48	0.49
31:DA:1767:C:C2'	31:DA:1768:U:H5'	2.42	0.49
31:DA:1929:G:H5''	31:DA:1929:G:N3	2.27	0.49
31:DA:2061:G:N3	31:DA:2063:C:C4	2.81	0.49
31:DA:2415:G:C6	31:DA:2416:C:C4	3.01	0.49
31:DA:2835:A:C6	31:DA:2879:C:C5	3.01	0.49
31:DA:2870:C:H5''	43:DR:65:LEU:CD2	2.43	0.49
32:DB:73:A:H5'	32:DB:74:U:OP2	2.12	0.49
33:DD:223:GLY:HA3	33:DD:231:HIS:CE1	2.48	0.49
34:DE:65:GLY:C	34:DE:67:PHE:N	2.66	0.49
35:DF:170:LEU:HD23	35:DF:172:TRP:CZ2	2.47	0.49
37:DH:91:GLY:HA2	37:DH:160:LYS:NZ	2.27	0.49
38:DI:123:LEU:HD13	38:DI:143:SER:O	2.13	0.49
39:DN:16:ILE:HG23	39:DN:54:VAL:HG22	1.95	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:23:LEU:HD21	39:DN:62:VAL:HG23	1.95	0.49
39:DN:40:PRO:C	46:DU:64:ARG:NH2	2.62	0.49
39:DN:40:PRO:HB3	46:DU:68:ALA:HB2	1.93	0.49
40:DO:2:ILE:HG23	40:DO:6:THR:CG2	2.43	0.49
41:DP:101:VAL:HG22	41:DP:102:ARG:N	2.26	0.49
42:DQ:93:TYR:N	42:DQ:93:TYR:CD1	2.79	0.49
43:DR:4:LEU:C	43:DR:6:SER:H	2.15	0.49
50:DY:53:PRO:HB3	50:DY:57:GLN:HA	1.94	0.49
50:DY:96:ILE:CG1	50:DY:99:CYS:SG	3.00	0.49
1:AA:16:A:O2'	1:AA:17:U:H5'	2.13	0.49
1:AA:342:C:C2	1:AA:348:G:C2	3.01	0.49
1:AA:396:G:C2'	1:AA:398:C:OP1	2.61	0.49
1:AA:473:G:H2'	1:AA:474:G:C8	2.48	0.49
1:AA:558:G:C5	1:AA:559:A:C2	3.00	0.49
1:AA:577:G:C2	1:AA:578:C:C6	3.01	0.49
1:AA:830:G:H2'	1:AA:831:U:H6	1.77	0.49
1:AA:1125:U:O3'	1:AA:1126:U:C6	2.66	0.49
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.43	0.49
12:AL:46:LYS:HD3	12:AL:94:PRO:HG3	1.94	0.49
18:AR:31:LEU:O	18:AR:65:ILE:HD13	2.13	0.49
19:AS:36:ARG:HD2	19:AS:52:TYR:O	2.13	0.49
31:BA:173:G:C6	31:BA:174:C:C4	3.01	0.49
31:BA:338:G:H2'	31:BA:339:U:H6	1.77	0.49
31:BA:363(C):G:H2'	31:BA:363(D):G:O4'	2.13	0.49
31:BA:363(E):U:H5''	31:BA:363(F):A:N3	2.27	0.49
31:BA:414:C:H2'	31:BA:415:A:H8	1.77	0.49
31:BA:688:U:O2	31:BA:787:U:H4'	2.13	0.49
31:BA:819:A:N3	31:BA:1189:A:C2	2.80	0.49
31:BA:1247:A:C4	31:BA:1249:U:C5	3.01	0.49
31:BA:1307:A:H2'	31:BA:1307:A:N3	2.27	0.49
31:BA:1358:G:H1'	31:BA:1373:A:H61	1.77	0.49
31:BA:1409:C:C2'	31:BA:1410:G:H5'	2.43	0.49
31:BA:1528:A:H8	31:BA:1528(A):A:C5	2.31	0.49
31:BA:1754:C:H2'	31:BA:1755:A:O4'	2.13	0.49
31:BA:1799:G:H3'	31:BA:1799:G:P	2.53	0.49
31:BA:1933:G:C2'	31:BA:1934:C:O5'	2.61	0.49
31:BA:2050:C:H1'	34:BE:156:MET:CE	2.42	0.49
31:BA:2202:C:O2	33:BD:151:LYS:NZ	2.38	0.49
31:BA:2208:A:O2'	31:BA:2218:U:P	2.70	0.49
31:BA:2600:A:H2'	31:BA:2601:C:H6	1.77	0.49
31:BA:2681:C:C5	31:BA:2725:A:N6	2.64	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2762:G:H8	31:BA:2762:G:H5''	1.78	0.49
31:BA:2810:A:C2'	34:BE:61:ARG:NH2	2.76	0.49
32:BB:78:A:H2'	32:BB:79:C:O4'	2.13	0.49
33:BD:24:ILE:CD1	33:BD:83:GLU:HA	2.43	0.49
33:BD:35:LYS:CE	33:BD:65:ILE:HG22	2.43	0.49
36:BG:42:GLY:HA2	36:BG:89:GLY:HA2	1.95	0.49
37:BH:85:LYS:NZ	37:BH:133:VAL:CG2	2.73	0.49
38:BI:25:TYR:CD1	38:BI:30:LEU:HD11	2.48	0.49
46:BU:102:GLU:HG3	47:BV:2:PHE:CZ	2.48	0.49
48:BW:6:ILE:HA	48:BW:103:ILE:O	2.13	0.49
1:CA:185:A:H2'	1:CA:186:C:C6	2.46	0.49
1:CA:224:C:H2'	1:CA:225:C:H6	1.77	0.49
1:CA:408:A:OP1	4:CD:115:ARG:HB2	2.13	0.49
1:CA:453:A:C5	1:CA:454:C:C4	3.01	0.49
1:CA:473:G:H2'	1:CA:474:G:H8	1.77	0.49
1:CA:763:G:H2'	1:CA:764:C:H6	1.78	0.49
1:CA:789:U:H2'	1:CA:791:G:OP2	2.12	0.49
1:CA:973:G:O4'	10:CJ:55:LYS:HG2	2.12	0.49
1:CA:1057:G:C2	1:CA:1058:G:H1'	2.48	0.49
1:CA:1072:G:C6	1:CA:1104:G:N1	2.81	0.49
1:CA:1280:A:H5'	10:CJ:40:LEU:HD12	1.95	0.49
1:CA:1515:C:H2'	1:CA:1516:G:C8	2.47	0.49
1:CA:1523:G:C6	1:CA:1524:C:C4	3.01	0.49
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.95	0.49
6:CF:100:ASN:N	18:CR:23:LYS:HZ2	2.11	0.49
7:CG:73:MET:HA	7:CG:91:VAL:HG23	1.93	0.49
10:CJ:54:PHE:CZ	10:CJ:55:LYS:NZ	2.81	0.49
11:CK:121:PRO:O	11:CK:126:ARG:HB2	2.13	0.49
13:CM:91:ARG:HB2	13:CM:98:VAL:CG2	2.39	0.49
30:D8:30:ARG:HB2	31:DA:2393:A:OP1	2.13	0.49
31:DA:129:C:H6	31:DA:129:C:H5''	1.78	0.49
31:DA:287:C:H2'	31:DA:288:C:O4'	2.13	0.49
31:DA:923:C:H2'	31:DA:924:C:H6	1.78	0.49
31:DA:1131:G:H8	31:DA:2025:C:H4'	1.78	0.49
31:DA:1139:G:H5'	39:DN:102:ALA:CB	2.43	0.49
31:DA:1140:C:O4'	31:DA:1143:A:C2	2.66	0.49
31:DA:1268:A:C2	31:DA:2013:A:C4	3.01	0.49
31:DA:1548:C:O2'	31:DA:1549:C:H5'	2.13	0.49
31:DA:1575:C:H2'	31:DA:1576:U:C6	2.47	0.49
31:DA:1819:A:OP1	33:DD:161:THR:HG21	2.13	0.49
31:DA:2000:G:C2	31:DA:2001:A:C8	3.00	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2400:G:C6	31:DA:2401:U:C4	3.01	0.49
31:DA:2520:C:C4	31:DA:2567:G:C8	3.01	0.49
31:DA:2556:C:C2'	31:DA:2557:G:H5'	2.43	0.49
31:DA:2728:U:H2'	31:DA:2729:G:C8	2.47	0.49
31:DA:2732:G:H3'	31:DA:2733:A:C5'	2.43	0.49
32:DB:28:C:H2'	32:DB:29:A:C8	2.48	0.49
32:DB:28:C:C2'	32:DB:29:A:O4'	2.59	0.49
33:DD:150:LYS:HA	33:DD:150:LYS:HE3	1.95	0.49
33:DD:211:ARG:HA	33:DD:214:TRP:CD2	2.48	0.49
36:DG:55:LYS:O	36:DG:59:GLU:HB2	2.12	0.49
37:DH:19:VAL:HG21	37:DH:44:VAL:HA	1.94	0.49
39:DN:3:THR:HA	39:DN:4:TYR:CE1	2.48	0.49
40:DO:35:VAL:HG11	40:DO:103:ALA:HB3	1.95	0.49
41:DP:88:LEU:O	41:DP:90:ARG:N	2.45	0.49
41:DP:107:LYS:C	41:DP:109:GLY:N	2.66	0.49
43:DR:103:ARG:HB2	43:DR:109:ALA:O	2.12	0.49
45:DT:109:GLU:C	45:DT:113:LYS:HE3	2.34	0.49
47:DV:19:LYS:C	47:DV:20:LEU:HG	2.34	0.49
47:DV:90:PRO:CG	47:DV:91:TYR:N	2.75	0.49
49:DX:35:THR:O	49:DX:39:ILE:HG23	2.13	0.49
50:DY:75:ILE:CG1	50:DY:79:CYS:HA	2.43	0.49
1:AA:57:G:C6	1:AA:356:A:N1	2.81	0.48
1:AA:320:C:H2'	1:AA:321:A:O4'	2.13	0.48
1:AA:408:A:OP1	4:AD:115:ARG:HB2	2.13	0.48
1:AA:543:C:O2'	1:AA:544:G:H5'	2.13	0.48
1:AA:552:U:C4'	12:AL:86:ARG:HD2	2.43	0.48
1:AA:626:U:C2	1:AA:627:G:N7	2.80	0.48
1:AA:652:U:O4	1:AA:752:G:O2'	2.24	0.48
1:AA:682:G:H1'	1:AA:709:G:N2	2.28	0.48
1:AA:1346:A:H5''	9:AI:120:ARG:NH1	2.19	0.48
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.13	0.48
8:AH:44:PHE:CE2	8:AH:109:ILE:HG21	2.47	0.48
11:AK:21:ILE:HD12	11:AK:21:ILE:N	2.28	0.48
20:AT:12:ALA:H	20:AT:13:LEU:HD12	1.77	0.48
23:B1:11:ARG:CG	23:B1:61:ARG:O	2.61	0.48
27:B5:11:THR:CG2	31:BA:1264:G:H5'	2.42	0.48
28:B6:48:VAL:CG2	28:B6:49:HIS:N	2.75	0.48
31:BA:71:A:C5	31:BA:73:A:N1	2.81	0.48
31:BA:370:G:H5''	31:BA:423:A:C6	2.46	0.48
31:BA:588:U:OP2	31:BA:588:U:C6	2.66	0.48
31:BA:649:G:H2'	31:BA:650:C:C6	2.48	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:697:C:C2	31:BA:698:C:C5	3.01	0.48
31:BA:828:U:O2	31:BA:828:U:C3'	2.60	0.48
31:BA:859:G:O2'	31:BA:916:G:O6	2.29	0.48
31:BA:873:G:H1	31:BA:904:C:H42	1.60	0.48
31:BA:932:G:H4'	31:BA:933:A:O5'	2.12	0.48
31:BA:1053:C:N4	31:BA:1107:G:H22	2.11	0.48
31:BA:1156:A:H4'	31:BA:1157:G:OP2	2.13	0.48
31:BA:1248:G:O2'	46:BU:3:ARG:HA	2.13	0.48
31:BA:1417:C:C2'	31:BA:1418:G:H5'	2.43	0.48
31:BA:1575:C:H2'	31:BA:1576:U:C6	2.48	0.48
31:BA:1916:A:N3	31:BA:1916:A:H2'	2.26	0.48
31:BA:2469:A:H5'	31:BA:2470:G:OP2	2.13	0.48
31:BA:2655:G:N3	31:BA:2664:G:O6	2.46	0.48
31:BA:2656:U:N3	31:BA:2665:A:H2	2.05	0.48
31:BA:2688:U:C5	31:BA:2720:U:OP2	2.65	0.48
34:BE:143:ASN:HB2	34:BE:147:PRO:HD2	1.95	0.48
35:BF:28:ILE:HD12	35:BF:28:ILE:N	2.28	0.48
35:BF:138:GLU:O	35:BF:141:ALA:HB3	2.13	0.48
37:BH:92:ILE:C	37:BH:94:TYR:H	2.15	0.48
38:BI:44:LEU:O	38:BI:47:LEU:HB2	2.13	0.48
40:BO:7:TYR:OH	40:BO:44:LYS:HG3	2.13	0.48
40:BO:34:THR:O	40:BO:37:ASP:HB2	2.13	0.48
45:BT:20:PRO:HD2	45:BT:85:LYS:HB3	1.93	0.48
51:BZ:157:LEU:HD13	51:BZ:161:VAL:HG12	1.94	0.48
1:CA:159:G:N3	1:CA:161:A:OP2	2.46	0.48
1:CA:189(A):C:H2'	1:CA:189(B):C:H6	1.76	0.48
1:CA:254:G:O2'	1:CA:255:G:H5'	2.13	0.48
1:CA:353:A:C2'	1:CA:354:G:OP2	2.61	0.48
1:CA:358:U:N3	1:CA:359:U:N3	2.61	0.48
1:CA:380:G:C2	1:CA:384:G:C6	3.01	0.48
1:CA:438:G:OP1	4:CD:125:HIS:HE1	1.96	0.48
1:CA:515:G:H2'	1:CA:516:U:O4'	2.12	0.48
1:CA:676:A:C4	1:CA:677:U:C5	3.01	0.48
1:CA:681:C:C2	1:CA:710:G:N2	2.81	0.48
1:CA:682:G:N1	1:CA:683:G:C5	2.81	0.48
1:CA:868:C:H2'	1:CA:869:G:O4'	2.12	0.48
1:CA:960:U:C5	1:CA:1225:A:H1'	2.48	0.48
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.12	0.48
1:CA:1416:G:C5	1:CA:1417:G:C5	3.01	0.48
1:CA:1442(A):G:H3'	1:CA:1442(B):A:C5'	2.43	0.48
1:CA:1462:G:H2'	1:CA:1463:C:H6	1.78	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.13	0.48
5:CE:103:GLY:O	5:CE:104:ALA:C	2.51	0.48
8:CH:86:ILE:HG22	8:CH:87:SER:N	2.28	0.48
9:CI:96:LEU:HD12	9:CI:101:PHE:HB2	1.95	0.48
12:CL:84:LEU:HB2	12:CL:105:TYR:CE1	2.48	0.48
16:CP:4:ILE:HG13	16:CP:21:VAL:CG1	2.38	0.48
22:D0:53:MET:HA	22:D0:58:THR:O	2.13	0.48
22:D0:74:ARG:HG2	32:DB:12:C:HO2'	1.73	0.48
25:D3:8:LEU:HG	25:D3:23:LEU:CD2	2.43	0.48
30:D8:31:HIS:O	30:D8:33:ASN:N	2.46	0.48
31:DA:64:A:C6	31:DA:65:C:C4	3.01	0.48
31:DA:94:C:H2'	31:DA:94:C:O2	2.12	0.48
31:DA:142:A:H3'	31:DA:142(A):C:H5'	1.95	0.48
31:DA:183:C:C2'	31:DA:184:C:H5'	2.42	0.48
31:DA:372:G:O2'	31:DA:373:U:P	2.71	0.48
31:DA:675:A:N6	31:DA:676:A:N6	2.60	0.48
31:DA:790:C:O2'	31:DA:791:C:C5'	2.61	0.48
31:DA:1053:C:N4	31:DA:1107:G:H22	2.10	0.48
31:DA:1239:G:H2'	31:DA:1240:U:O4'	2.13	0.48
31:DA:1343:G:H1	31:DA:1404:C:H42	1.60	0.48
31:DA:1349:A:H5'	31:DA:1349:A:N3	2.28	0.48
31:DA:1484:G:C6	31:DA:1506:C:N4	2.80	0.48
31:DA:1562:A:H2'	31:DA:1563:G:H8	1.78	0.48
31:DA:1762:A:H8	31:DA:1762:A:O5'	1.95	0.48
31:DA:1799:G:H5'	31:DA:1819:A:N6	2.27	0.48
31:DA:2486:G:H2'	31:DA:2487:G:O5'	2.13	0.48
31:DA:2572:A:N7	34:DE:145:LYS:HB2	2.28	0.48
31:DA:2740:A:C6	31:DA:2764:A:C8	3.01	0.48
31:DA:2885:C:N3	31:DA:2886:G:H1'	2.28	0.48
32:DB:21:G:C6	32:DB:63:G:N1	2.81	0.48
33:DD:67:PHE:CE1	33:DD:157:ARG:NH2	2.81	0.48
33:DD:77:ALA:HB2	33:DD:97:TYR:CE2	2.48	0.48
33:DD:133:LEU:HD21	33:DD:191:ALA:HB2	1.94	0.48
34:DE:61:ARG:H	34:DE:62:PRO:HD2	1.76	0.48
34:DE:82:ARG:HG3	34:DE:83:ASP:N	2.28	0.48
40:DO:13:ASN:ND2	40:DO:97:ARG:HB2	2.28	0.48
41:DP:32:THR:HG21	41:DP:37:GLY:HA2	1.94	0.48
41:DP:39:LYS:HA	41:DP:39:LYS:HD3	1.56	0.48
41:DP:48:PRO:O	41:DP:50:ARG:N	2.45	0.48
41:DP:149:GLU:O	41:DP:149:GLU:HG3	2.12	0.48
42:DQ:70:PRO:HG2	42:DQ:70:PRO:O	2.13	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:2:PHE:O	47:DV:3:ALA:HB3	2.13	0.48
47:DV:13:ARG:HH11	47:DV:13:ARG:HG2	1.74	0.48
50:DY:87:LYS:HG3	50:DY:88:LYS:N	2.28	0.48
51:DZ:101:PRO:HA	51:DZ:123:ASP:HB3	1.94	0.48
1:AA:137:C:O2'	1:AA:138:G:H5'	2.13	0.48
1:AA:260:G:H2'	1:AA:261:U:C6	2.47	0.48
1:AA:515:G:N3	1:AA:537:G:C2	2.82	0.48
1:AA:617:G:H1	1:AA:623:C:H42	1.59	0.48
5:AE:12:LEU:HD13	5:AE:31:LEU:HB2	1.96	0.48
5:AE:78:HIS:CE1	5:AE:143:ARG:H	2.31	0.48
8:AH:39:LEU:HD22	8:AH:39:LEU:H	1.78	0.48
8:AH:51:VAL:O	8:AH:52:ASP:HB2	2.13	0.48
15:AO:4:THR:OG1	15:AO:7:GLU:HB2	2.13	0.48
22:B0:49:LYS:HG3	22:B0:80:HIS:ND1	2.28	0.48
22:B0:53:MET:HB2	22:B0:59:LEU:CD2	2.43	0.48
31:BA:38:A:C6	31:BA:39:C:N4	2.81	0.48
31:BA:70:G:H21	31:BA:71:A:N6	2.09	0.48
31:BA:448:U:H1'	35:BF:84:VAL:CG1	2.43	0.48
31:BA:745:G:C2'	31:BA:746:A:H5'	2.43	0.48
31:BA:856:C:H4'	31:BA:857:C:OP1	2.13	0.48
31:BA:863:A:C2	31:BA:864:G:C4	3.01	0.48
31:BA:968:G:H2'	31:BA:969:U:O4'	2.12	0.48
31:BA:1388:G:H2'	31:BA:1389:G:C8	2.47	0.48
31:BA:1404:C:H4'	31:BA:1404:C:OP1	2.12	0.48
31:BA:1625:C:H2'	31:BA:1626:G:O4'	2.12	0.48
31:BA:1675:C:N3	34:BE:128:SER:OG	2.45	0.48
31:BA:1688:U:O2	31:BA:1700:A:H8	1.95	0.48
31:BA:1895:C:H2'	31:BA:1896:G:O4'	2.14	0.48
31:BA:1952:A:OP1	40:BO:42:SER:OG	2.25	0.48
31:BA:2080:G:N2	31:BA:2241:A:C4	2.81	0.48
31:BA:2579:C:H2'	31:BA:2580:U:O4'	2.13	0.48
31:BA:2870:C:H5''	43:BR:65:LEU:HD21	1.95	0.48
33:BD:260:ARG:HH22	33:BD:266:SER:HB2	1.77	0.48
34:BE:98:PRO:HD3	34:BE:175:VAL:HG13	1.95	0.48
34:BE:120:TRP:CD1	34:BE:155:LYS:HB3	2.47	0.48
35:BF:150:GLY:HA2	35:BF:172:TRP:CE3	2.48	0.48
37:BH:44:VAL:HG12	37:BH:45:VAL:N	2.20	0.48
38:BI:29:TYR:HD2	38:BI:30:LEU:HD23	1.78	0.48
40:BO:61:VAL:O	40:BO:63:VAL:HG13	2.13	0.48
41:BP:51:PHE:CB	41:BP:52:GLU:OE2	2.52	0.48
41:BP:110:TYR:CG	41:BP:111:ARG:N	2.80	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:138:LEU:HD23	41:BP:138:LEU:N	2.29	0.48
44:BS:106:ARG:O	44:BS:107:GLU:CB	2.60	0.48
48:BW:8:ARG:HB3	48:BW:9:TYR:CD1	2.48	0.48
49:BX:34:ALA:O	49:BX:36:LYS:HG3	2.13	0.48
51:BZ:6:LYS:HG2	51:BZ:8:TYR:CZ	2.48	0.48
51:BZ:130:PRO:O	51:BZ:133:ILE:HG13	2.12	0.48
1:CA:60:A:C4'	1:CA:61:G:O5'	2.61	0.48
1:CA:270:A:C5	1:CA:271:C:C5	3.01	0.48
1:CA:354:G:C4	1:CA:355:C:C5	3.01	0.48
1:CA:484:G:C4'	1:CA:485:G:O5'	2.61	0.48
1:CA:516:U:C5	1:CA:517:G:C6	3.01	0.48
1:CA:701:C:OP1	1:CA:702:A:H2'	2.14	0.48
1:CA:728:A:C6	15:CO:54:ARG:HD2	2.48	0.48
1:CA:896:C:O2'	1:CA:897:C:H5'	2.13	0.48
1:CA:1076:C:C2	1:CA:1082:G:C2	3.01	0.48
1:CA:1158:C:O2	1:CA:1158:C:C2'	2.61	0.48
1:CA:1330:U:C5'	1:CA:1331:G:O5'	2.62	0.48
4:CD:61:LYS:HB2	4:CD:203:VAL:HG13	1.95	0.48
4:CD:61:LYS:HD3	4:CD:62:GLN:N	2.28	0.48
5:CE:19:MET:O	5:CE:20:GLN:CB	2.60	0.48
5:CE:101:ILE:CD1	5:CE:119:LEU:HA	2.42	0.48
12:CL:41:ARG:HG2	12:CL:42:THR:N	2.25	0.48
12:CL:119:LYS:C	12:CL:120:TYR:CD1	2.87	0.48
13:CM:24:GLY:C	13:CM:25:ILE:HD12	2.33	0.48
13:CM:86:CYS:SG	13:CM:89:GLY:HA3	2.53	0.48
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.50	0.48
20:CT:36:LEU:HD13	20:CT:36:LEU:HA	1.70	0.48
23:D1:26:ARG:CB	23:D1:34:THR:HB	2.42	0.48
24:D2:29:LYS:HZ3	49:DX:9:LEU:HA	1.76	0.48
31:DA:476:G:N2	31:DA:478:A:H3'	2.28	0.48
31:DA:1039:G:N2	31:DA:1117:G:H1'	2.28	0.48
31:DA:1191:G:OP1	41:DP:35:HIS:ND1	2.46	0.48
31:DA:1204:A:H61	31:DA:1240:U:H2'	1.78	0.48
31:DA:1238:G:N2	31:DA:1239:G:H1'	2.28	0.48
31:DA:1341:U:HO2'	31:DA:1397:U:HO2'	1.55	0.48
31:DA:1348:G:C2'	31:DA:1349:A:H5''	2.42	0.48
31:DA:1435:G:H2'	31:DA:1436:G:O4'	2.13	0.48
31:DA:1505:C:H5	31:DA:1506:C:C6	2.31	0.48
31:DA:1581:G:C2'	31:DA:1582:C:H5'	2.43	0.48
31:DA:1628:G:O2'	31:DA:1629:U:H5'	2.13	0.48
31:DA:1655:A:C8	31:DA:1656:C:C5	3.01	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1694:C:O2'	31:DA:1695:G:C5	2.67	0.48
31:DA:2050:C:H1'	34:DE:156:MET:HE2	1.93	0.48
31:DA:2208:A:H1'	31:DA:2219:G:C5	2.47	0.48
31:DA:2580:U:H5'	34:DE:131:ALA:HB3	1.95	0.48
31:DA:2826:A:C4	31:DA:2827:C:C6	3.01	0.48
33:DD:5:LYS:HD2	33:DD:5:LYS:H	1.78	0.48
33:DD:70:TRP:CZ3	33:DD:150:LYS:HA	2.47	0.48
33:DD:70:TRP:CD1	33:DD:70:TRP:C	2.87	0.48
34:DE:60:ASN:OD1	34:DE:62:PRO:HD2	2.12	0.48
35:DF:32:LEU:HD23	35:DF:32:LEU:O	2.13	0.48
38:DI:12:LEU:HD23	38:DI:12:LEU:N	2.28	0.48
38:DI:15:VAL:O	38:DI:17:GLN:N	2.46	0.48
41:DP:32:THR:O	41:DP:33:ARG:HB2	2.13	0.48
43:DR:83:ILE:O	43:DR:84:ALA:C	2.50	0.48
46:DU:92:ARG:O	46:DU:92:ARG:HG2	2.11	0.48
49:DX:89:ILE:HD12	49:DX:92:LEU:HD12	1.95	0.48
50:DY:26:LYS:HG2	50:DY:27:VAL:H	1.78	0.48
50:DY:38:ILE:N	50:DY:66:PRO:O	2.43	0.48
50:DY:52:SER:C	50:DY:54:LYS:H	2.16	0.48
1:AA:44:G:C6	1:AA:45:U:C2	3.02	0.48
1:AA:241:C:C2	1:AA:286:G:C2	3.02	0.48
1:AA:355:C:N3	1:AA:356:A:N7	2.62	0.48
1:AA:373:A:N3	1:AA:374:A:C8	2.81	0.48
1:AA:425:G:O2'	1:AA:426:G:H5'	2.13	0.48
1:AA:561:U:HO2'	1:AA:562:C:P	2.35	0.48
1:AA:792:A:H1'	1:AA:794:A:N7	2.29	0.48
1:AA:952:U:H2'	1:AA:953:G:H8	1.77	0.48
1:AA:976:G:C5'	1:AA:1358:U:O2'	2.58	0.48
1:AA:1161:C:N3	1:AA:1176:A:N1	2.60	0.48
1:AA:1462:G:H2'	1:AA:1463:C:C6	2.49	0.48
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.13	0.48
2:AB:114:ARG:O	2:AB:114:ARG:HD3	2.13	0.48
2:AB:162:ILE:HD12	2:AB:184:VAL:HA	1.95	0.48
2:AB:167:PRO:HG3	2:AB:188:ALA:CB	2.43	0.48
4:AD:68:TYR:CE2	4:AD:97:LEU:HB3	2.48	0.48
6:AF:40:VAL:HA	6:AF:62:TRP:O	2.13	0.48
6:AF:69:GLU:HG2	6:AF:70:ASP:H	1.78	0.48
7:AG:91:VAL:O	7:AG:96:GLN:HG3	2.12	0.48
11:AK:62:GLN:C	11:AK:64:ALA:N	2.66	0.48
20:AT:63:ILE:HD12	20:AT:81:LYS:HG3	1.95	0.48
22:B0:51:VAL:N	22:B0:62:LEU:HD12	2.29	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B6:27:LYS:O	28:B6:29:ASN:N	2.46	0.48
29:B7:5:TRP:HA	29:B7:5:TRP:HE3	1.78	0.48
31:BA:363(D):G:C6	31:BA:363(E):U:O4	2.66	0.48
31:BA:570:G:H2'	31:BA:2030:A:C6	2.47	0.48
31:BA:705:A:C2	31:BA:727:A:H1'	2.48	0.48
31:BA:754:C:O4'	31:BA:1618:A:H2	1.95	0.48
31:BA:1049:C:H2'	31:BA:1049:C:O2	2.12	0.48
31:BA:1332:G:C8	31:BA:1332:G:H5'	2.48	0.48
31:BA:1659:U:H2'	31:BA:1660:C:C5'	2.43	0.48
31:BA:2242:G:H2'	31:BA:2243:U:O5'	2.13	0.48
31:BA:2584:U:H2'	31:BA:2585:U:H5'	1.96	0.48
31:BA:2759:G:C2'	31:BA:2760:C:H5'	2.43	0.48
32:BB:25:A:C4	32:BB:26:A:C8	3.01	0.48
33:BD:61:LEU:HD13	33:BD:61:LEU:HA	1.65	0.48
33:BD:63:ARG:CZ	33:BD:86:PRO:HD3	2.44	0.48
33:BD:166:GLN:CA	33:BD:166:GLN:NE2	2.76	0.48
33:BD:235:GLY:C	33:BD:237:GLU:HG2	2.34	0.48
34:BE:3:GLY:HA3	34:BE:81:ILE:HG21	1.95	0.48
34:BE:101:ARG:HB3	34:BE:169:ASN:HD22	1.79	0.48
35:BF:68:LYS:HG2	35:BF:69:HIS:CE1	2.48	0.48
36:BG:73:ALA:HB3	36:BG:85:GLY:C	2.34	0.48
46:BU:37:GLU:O	46:BU:38:THR:C	2.51	0.48
46:BU:114:LYS:O	46:BU:115:ALA:C	2.50	0.48
47:BV:19:LYS:CG	47:BV:20:LEU:N	2.55	0.48
48:BW:73:ALA:HB3	48:BW:106:ILE:CD1	2.43	0.48
49:BX:36:LYS:C	49:BX:38:GLU:N	2.67	0.48
1:CA:105:G:H2'	1:CA:106:C:C6	2.48	0.48
1:CA:166:G:H2'	1:CA:167:G:C8	2.47	0.48
1:CA:254:G:OP1	17:CQ:68:ARG:HB3	2.14	0.48
1:CA:303:A:O2'	1:CA:555:C:H4'	2.14	0.48
1:CA:358:U:H2'	1:CA:359:U:H6	1.71	0.48
1:CA:522:C:H5''	12:CL:120:TYR:OH	2.13	0.48
1:CA:734:G:C5	1:CA:735:C:C4	3.02	0.48
1:CA:881:G:H2'	1:CA:882:C:O4'	2.13	0.48
1:CA:952:U:H2'	1:CA:953:G:H8	1.78	0.48
1:CA:1278:U:H5''	1:CA:1279:A:C1'	2.44	0.48
1:CA:1442(A):G:C5	45:DT:118:ARG:NH2	2.80	0.48
4:CD:79:PHE:CD1	4:CD:207:TYR:CD1	3.00	0.48
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.43	0.48
5:CE:139:LEU:HD23	5:CE:142:LEU:HD11	1.95	0.48
6:CF:48:LEU:HD13	6:CF:52:ILE:HG12	1.95	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:70:LYS:O	7:CG:138:LYS:HE3	2.13	0.48
9:CI:5:TYR:HD2	9:CI:18:PHE:CE2	2.31	0.48
13:CM:4:ILE:HG13	13:CM:10:PRO:HD2	1.94	0.48
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.28	0.48
23:D1:53:VAL:HG13	23:D1:54:ALA:N	2.28	0.48
24:D2:57:ILE:O	24:D2:57:ILE:HG13	2.12	0.48
29:D7:5:TRP:CD1	29:D7:7:PRO:HG3	2.48	0.48
29:D7:15:THR:HG22	29:D7:16:HIS:CD2	2.49	0.48
31:DA:195:A:H2'	31:DA:198:C:N4	2.29	0.48
31:DA:405:U:H4'	31:DA:406:G:OP2	2.13	0.48
31:DA:528:A:N1	31:DA:2043:C:C5'	2.75	0.48
31:DA:903:C:C3'	31:DA:904:C:H5''	2.43	0.48
31:DA:919:G:H5'	32:DB:81:G:H1'	1.96	0.48
31:DA:956:G:OP2	42:DQ:14:ARG:NH2	2.46	0.48
31:DA:1265:A:C8	31:DA:1267:U:C2	3.02	0.48
31:DA:1324:G:C2	31:DA:1331:A:C2	3.00	0.48
31:DA:1686:C:H2'	31:DA:1687:G:C5'	2.42	0.48
31:DA:2052:G:C8	34:DE:141:ILE:HD11	2.49	0.48
31:DA:2063:C:C4	31:DA:2064:C:C4	3.00	0.48
31:DA:2358:G:C5	31:DA:2359:C:C5	3.01	0.48
31:DA:2773:C:H2'	31:DA:2774:C:C6	2.48	0.48
32:DB:40:U:H1'	32:DB:45:A:N6	2.27	0.48
32:DB:55:U:OP2	32:DB:55:U:C6	2.65	0.48
33:DD:94:LEU:HA	33:DD:104:TYR:HA	1.94	0.48
33:DD:173:VAL:HG12	33:DD:185:VAL:O	2.14	0.48
37:DH:70:THR:O	37:DH:73:ALA:N	2.46	0.48
38:DI:130:TYR:CG	38:DI:131:LYS:N	2.79	0.48
39:DN:58:ASP:C	39:DN:60:ILE:N	2.66	0.48
42:DQ:17:LEU:HD21	42:DQ:41:TRP:HE1	1.77	0.48
43:DR:96:ARG:NH2	43:DR:117:VAL:HG23	2.25	0.48
44:DS:38:GLN:HG3	44:DS:47:THR:HG21	1.95	0.48
47:DV:60:GLU:O	47:DV:62:LEU:HG	2.13	0.48
47:DV:66:ARG:HD2	47:DV:68:LYS:N	2.29	0.48
1:AA:142:G:C2	1:AA:143:A:N7	2.81	0.48
1:AA:255:G:C6	1:AA:256:U:C4	3.01	0.48
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.13	0.48
1:AA:308:C:H2'	1:AA:309:G:C8	2.46	0.48
1:AA:565:U:OP2	1:AA:566:G:O2'	2.22	0.48
1:AA:1205:U:HO2'	1:AA:1206:G:H8	1.60	0.48
2:AB:235:SER:O	2:AB:239:VAL:CG2	2.61	0.48
5:AE:12:LEU:C	5:AE:12:LEU:HD22	2.34	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:44:PHE:HD1	8:AH:79:VAL:HG12	1.79	0.48
12:AL:32:PHE:CB	12:AL:84:LEU:HD21	2.44	0.48
19:AS:29:ARG:HB3	19:AS:47:HIS:HA	1.96	0.48
19:AS:36:ARG:HH12	19:AS:75:ALA:HB3	1.78	0.48
23:B1:34:THR:CG2	31:BA:388:G:OP1	2.59	0.48
24:B2:30:ARG:H	24:B2:30:ARG:CD	2.11	0.48
27:B5:39:MET:HB2	48:BW:34:ASN:ND2	2.28	0.48
28:B6:12:GLU:HA	28:B6:23:THR:CA	2.40	0.48
31:BA:705:A:C2	31:BA:706:A:C4	3.00	0.48
31:BA:979:G:C4	31:BA:982:C:N4	2.81	0.48
31:BA:1006:C:O2'	31:BA:1007:C:H5'	2.13	0.48
31:BA:1108:U:H2'	31:BA:1109:C:H5'	1.94	0.48
31:BA:1235:G:C5	31:BA:1236:G:C6	3.01	0.48
31:BA:1257:C:O2'	35:BF:84:VAL:HG23	2.13	0.48
31:BA:1276:A:C2	31:BA:1277:G:C8	3.02	0.48
31:BA:1281:G:C2	31:BA:1290:C:C2	3.02	0.48
31:BA:1357:U:H2'	31:BA:1358:G:O4'	2.13	0.48
31:BA:1657:C:OP1	34:BE:136:ARG:N	2.45	0.48
31:BA:1939:U:OP1	31:BA:2604:U:O2'	2.28	0.48
31:BA:1972:A:O2'	31:BA:1973:G:H5'	2.12	0.48
31:BA:1993:U:C5	31:BA:1994:C:C5	3.01	0.48
31:BA:2540:C:O2	31:BA:2740:A:H2	1.97	0.48
31:BA:2575:C:H6	31:BA:2575:C:O5'	1.96	0.48
31:BA:2586:C:O2'	31:BA:2587:A:H5'	2.13	0.48
31:BA:2747:G:C2	31:BA:2756:U:C5	3.00	0.48
33:BD:3:VAL:O	33:BD:3:VAL:HG12	2.13	0.48
33:BD:80:ALA:HB2	33:BD:96:HIS:CG	2.49	0.48
34:BE:61:ARG:N	34:BE:62:PRO:CD	2.77	0.48
34:BE:132:HIS:HD2	34:BE:135:HIS:CE1	2.19	0.48
41:BP:90:ARG:O	41:BP:90:ARG:NH1	2.46	0.48
43:BR:9:LYS:O	43:BR:10:LEU:CB	2.62	0.48
47:BV:72:VAL:HG12	47:BV:88:ARG:NH2	2.28	0.48
50:BY:45:VAL:HG13	50:BY:62:GLU:HG2	1.94	0.48
51:BZ:48:PHE:O	51:BZ:49:ARG:C	2.51	0.48
1:CA:117:G:O2'	1:CA:118:U:H5'	2.14	0.48
1:CA:411:A:OP2	4:CD:25:ARG:NH2	2.47	0.48
1:CA:473:G:H2'	1:CA:474:G:C8	2.48	0.48
1:CA:719:C:H5	1:CA:720:C:C4	2.30	0.48
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.49	0.48
1:CA:1091:U:O2	1:CA:1091:U:C2'	2.61	0.48
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.49	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1504:G:H4'	1:CA:1505:G:OP2	2.13	0.48
4:CD:8:VAL:O	4:CD:11:LEU:HG	2.12	0.48
4:CD:10:ARG:HA	4:CD:13:ARG:HG3	1.95	0.48
4:CD:162:LEU:HD13	4:CD:181:MET:CE	2.42	0.48
6:CF:19:LEU:O	6:CF:23:LYS:HG3	2.13	0.48
8:CH:103:VAL:HG21	8:CH:109:ILE:C	2.34	0.48
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.28	0.48
11:CK:13:GLN:HB3	11:CK:75:TYR:O	2.13	0.48
11:CK:38:ASN:N	11:CK:38:ASN:ND2	2.60	0.48
14:CN:24:CYS:SG	14:CN:40:CYS:N	2.86	0.48
31:DA:259:G:N2	31:DA:621:A:H8	2.12	0.48
31:DA:350:U:C2'	31:DA:351:G:O5'	2.61	0.48
31:DA:524:U:H4'	31:DA:555:U:H4'	1.96	0.48
31:DA:562:U:C4	31:DA:2036:C:O4'	2.66	0.48
31:DA:622:G:H2'	31:DA:623:G:O4'	2.13	0.48
31:DA:911:A:C4	42:DQ:9:TYR:OH	2.60	0.48
31:DA:1188:U:O2'	31:DA:1189:A:H5'	2.13	0.48
31:DA:1301:A:C4	31:DA:1303:G:N7	2.81	0.48
31:DA:1403:C:H2'	31:DA:1404:C:O4'	2.13	0.48
31:DA:1404:C:N3	31:DA:1405:U:C5	2.82	0.48
31:DA:1465:G:C2	31:DA:1466:G:C4	3.01	0.48
31:DA:1866:C:H2'	31:DA:1876:A:O4'	2.14	0.48
31:DA:1914:C:C5	31:DA:1915:U:C2	3.02	0.48
31:DA:2100:G:O6	31:DA:2189:U:C4	2.67	0.48
31:DA:2454:G:H2'	31:DA:2455:G:H8	1.78	0.48
31:DA:2574:G:C5	31:DA:2575:C:C4	3.02	0.48
32:DB:17:C:C2	32:DB:18:G:C8	3.01	0.48
32:DB:71:C:H2'	32:DB:72:G:O4'	2.13	0.48
33:DD:166:GLN:CA	33:DD:166:GLN:NE2	2.76	0.48
35:DF:117:ARG:HD3	35:DF:117:ARG:HA	1.57	0.48
40:DO:47:ILE:HG13	40:DO:48:PRO:HD2	1.95	0.48
43:DR:10:LEU:HD13	43:DR:17:ARG:HD2	1.94	0.48
44:DS:94:TYR:C	44:DS:94:TYR:CD1	2.84	0.48
50:DY:11:ASP:N	50:DY:27:VAL:HA	2.28	0.48
51:DZ:6:LYS:HG2	51:DZ:8:TYR:OH	2.13	0.48
51:DZ:19:ARG:NH1	51:DZ:19:ARG:CG	2.71	0.48
1:AA:27:G:H2'	1:AA:28:G:C8	2.48	0.48
1:AA:710:G:H2'	1:AA:711:G:C8	2.48	0.48
1:AA:829:G:C6	1:AA:858:G:N2	2.81	0.48
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.74	0.48
1:AA:1433:A:C6	1:AA:1434:A:C6	3.01	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:54:ARG:NH1	3:AC:56:ASP:HB2	2.28	0.48
3:AC:157:ILE:C	3:AC:159:GLY:H	2.16	0.48
4:AD:104:VAL:HG13	4:AD:108:LEU:HD13	1.95	0.48
4:AD:109:GLY:O	4:AD:111:ALA:N	2.45	0.48
4:AD:180:GLY:HA3	4:AD:182:LYS:HE2	1.96	0.48
5:AE:100:VAL:HG13	5:AE:118:ILE:CG2	2.44	0.48
5:AE:128:PRO:O	5:AE:129:ILE:C	2.52	0.48
6:AF:15:ASP:C	6:AF:17:SER:H	2.17	0.48
8:AH:103:VAL:HG21	8:AH:109:ILE:C	2.33	0.48
10:AJ:80:LYS:HB2	10:AJ:80:LYS:NZ	2.28	0.48
12:AL:28:LYS:O	12:AL:29:GLY:C	2.52	0.48
13:AM:97:PRO:O	13:AM:98:VAL:HG13	2.13	0.48
14:AN:29:ARG:HD3	14:AN:40:CYS:SG	2.53	0.48
16:AP:8:ARG:C	16:AP:9:PHE:HD2	2.17	0.48
17:AQ:31:LEU:HG	17:AQ:32:TYR:CE2	2.49	0.48
22:B0:40:GLN:NE2	22:B0:42:GLY:O	2.44	0.48
23:B1:33:LYS:HB3	31:BA:2395:C:O2'	2.13	0.48
24:B2:48:HIS:O	24:B2:48:HIS:CG	2.66	0.48
27:B5:25:LEU:HD12	48:BW:19:LEU:HB3	1.95	0.48
29:B7:19:ARG:HD3	31:BA:125:G:OP2	2.14	0.48
31:BA:29:U:H2'	31:BA:30:G:C8	2.49	0.48
31:BA:45:C:H2'	31:BA:47:C:C6	2.48	0.48
31:BA:174:C:C3'	31:BA:175:G:H5''	2.43	0.48
31:BA:271(P):C:C2	31:BA:271(Q):G:N7	2.82	0.48
31:BA:302:C:O2'	31:BA:303:U:H5'	2.13	0.48
31:BA:304:G:C2'	31:BA:305:U:H5'	2.44	0.48
31:BA:541:C:H2'	31:BA:542:C:C6	2.48	0.48
31:BA:825:C:H2'	31:BA:826:U:O5'	2.14	0.48
31:BA:956:G:OP1	42:BQ:86:GLY:N	2.37	0.48
31:BA:1210:A:C4'	31:BA:1211:U:OP2	2.60	0.48
31:BA:1429:G:C5	31:BA:1568:G:C6	3.02	0.48
31:BA:1435:G:H2'	31:BA:1436:G:O4'	2.13	0.48
31:BA:1442:G:C2	31:BA:1443:G:C4	3.01	0.48
31:BA:1528(A):A:N7	31:BA:1529:G:C8	2.81	0.48
31:BA:1796:U:H2'	31:BA:1797:C:H6	1.76	0.48
31:BA:2058:A:H61	55:BA:3362:TEL:C57	2.25	0.48
31:BA:2070:G:H2'	31:BA:2071:A:H8	1.76	0.48
31:BA:2472:G:H2'	31:BA:2529:G:N2	2.28	0.48
31:BA:2584:U:O2	31:BA:2584:U:O5'	2.32	0.48
31:BA:2849:U:O4	45:BT:23:ARG:NH2	2.46	0.48
32:BB:32:C:C2	32:BB:51:G:C2	3.02	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:25:THR:CG2	33:BD:25:THR:O	2.62	0.48
34:BE:24:THR:HG23	34:BE:184:VAL:CG2	2.44	0.48
34:BE:66:HIS:O	34:BE:66:HIS:CG	2.67	0.48
34:BE:132:HIS:O	34:BE:133:LYS:HG3	2.14	0.48
39:BN:128:HIS:NE2	39:BN:131:GLN:HB3	2.29	0.48
43:BR:83:ILE:O	43:BR:84:ALA:C	2.51	0.48
43:BR:103:ARG:HB2	43:BR:109:ALA:O	2.13	0.48
46:BU:114:LYS:O	46:BU:116:ALA:N	2.47	0.48
47:BV:21:ARG:HB3	47:BV:93:GLU:HG2	1.94	0.48
47:BV:62:LEU:HD22	47:BV:98:GLU:HB2	1.95	0.48
51:BZ:27:VAL:O	51:BZ:87:ASP:HA	2.14	0.48
1:CA:36:C:H2'	1:CA:37:U:C5'	2.43	0.48
1:CA:173:U:C6	1:CA:197:A:C2	3.01	0.48
1:CA:299:G:N7	1:CA:300:A:N6	2.61	0.48
1:CA:839:U:H3'	1:CA:839:U:O2	2.14	0.48
1:CA:1088:G:C4	1:CA:1089:G:C8	3.02	0.48
1:CA:1089:G:C6	1:CA:1090:U:C4	3.02	0.48
1:CA:1090:U:C2	1:CA:1091:U:H5	2.31	0.48
1:CA:1226:C:OP1	13:CM:91:ARG:NH1	2.46	0.48
1:CA:1239:A:H2'	1:CA:1298:C:H42	1.78	0.48
5:CE:100:VAL:HG13	5:CE:118:ILE:CG2	2.43	0.48
9:CI:55:ALA:HB1	9:CI:59:PHE:CE1	2.47	0.48
13:CM:68:GLY:HA2	13:CM:71:ARG:HB3	1.95	0.48
20:CT:26:ASN:HA	20:CT:29:LYS:HG2	1.96	0.48
22:D0:41:ARG:HD3	22:D0:44:ARG:HD3	1.95	0.48
23:D1:71:TYR:HE1	38:DI:27:ARG:HD2	1.73	0.48
28:D6:20:ASN:O	28:D6:21:TYR:CD1	2.66	0.48
31:DA:43:A:C2	31:DA:44:G:C4	3.02	0.48
31:DA:271(A):A:N1	31:DA:272(D):G:O2'	2.39	0.48
31:DA:303:U:H2'	31:DA:304:G:H8	1.78	0.48
31:DA:631:A:H2	31:DA:2403:C:O2	1.97	0.48
31:DA:881:G:N2	31:DA:896:A:H62	2.11	0.48
31:DA:1436:G:O2'	31:DA:1477:A:H4'	2.14	0.48
31:DA:1452:A:C6	31:DA:2702:U:O2	2.67	0.48
31:DA:1992:G:C2	31:DA:1997:G:C5	3.01	0.48
31:DA:2251:G:C8	31:DA:2450:A:H4'	2.49	0.48
31:DA:2513:G:H2'	31:DA:2514:U:C6	2.48	0.48
31:DA:2626:C:O2'	31:DA:2627:G:H5'	2.13	0.48
33:DD:134:ARG:HG3	33:DD:187:GLY:HA3	1.94	0.48
35:DF:157:VAL:HA	35:DF:176:LEU:O	2.13	0.48
36:DG:71:THR:HB	36:DG:89:GLY:H	1.78	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:92:VAL:HG22	36:DG:93:THR:N	2.21	0.48
40:DO:60:ALA:HB2	40:DO:86:ILE:HA	1.96	0.48
42:DQ:34:LEU:HD11	42:DQ:129:THR:CB	2.42	0.48
44:DS:27:SER:HB2	44:DS:38:GLN:HB3	1.96	0.48
45:DT:28:VAL:HG22	45:DT:46:GLU:HG3	1.96	0.48
45:DT:89:VAL:CG1	45:DT:91:ARG:HE	2.23	0.48
50:DY:96:ILE:HG13	50:DY:99:CYS:SG	2.54	0.48
51:DZ:10:ARG:HG3	51:DZ:18:LEU:HD21	1.96	0.48
1:AA:407:G:H4'	4:AD:115:ARG:O	2.13	0.48
1:AA:438:G:OP1	4:AD:125:HIS:HE1	1.97	0.48
1:AA:445:G:N3	1:AA:446:G:C8	2.82	0.48
1:AA:658:G:O2'	1:AA:659:U:H5'	2.13	0.48
1:AA:675:A:C6	1:AA:676:A:C5	3.02	0.48
1:AA:683:G:C6	1:AA:684:A:C5	3.02	0.48
1:AA:734:G:H2'	1:AA:735:C:C6	2.48	0.48
1:AA:989:C:C1'	1:AA:1016:A:H2	2.26	0.48
1:AA:1484:C:C1'	31:BA:1960:A:O2'	2.62	0.48
8:AH:10:LEU:N	8:AH:10:LEU:CD2	2.77	0.48
8:AH:28:ALA:HB2	8:AH:58:TYR:O	2.13	0.48
13:AM:91:ARG:HB2	13:AM:98:VAL:CG2	2.39	0.48
14:AN:44:LEU:HD12	14:AN:44:LEU:C	2.34	0.48
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.49	0.48
18:AR:87:ARG:HB3	18:AR:87:ARG:NH1	2.29	0.48
19:AS:15:LEU:HD13	19:AS:31:ILE:HD11	1.95	0.48
23:B1:60:PHE:HZ	23:B1:90:ILE:HG21	1.78	0.48
23:B1:83:GLU:O	23:B1:83:GLU:HG3	2.14	0.48
24:B2:30:ARG:HD2	24:B2:30:ARG:N	2.20	0.48
24:B2:30:ARG:O	24:B2:32:LEU:O	2.32	0.48
30:B8:6:THR:CG2	31:BA:243:U:OP1	2.61	0.48
31:BA:213:A:H2'	31:BA:214:G:O4'	2.13	0.48
31:BA:258:G:C4	31:BA:259:G:C8	3.01	0.48
31:BA:393:C:C4	31:BA:394:A:N7	2.81	0.48
31:BA:707:G:C6	31:BA:708:C:C4	3.01	0.48
31:BA:721:C:H5'	31:BA:722:A:OP2	2.14	0.48
31:BA:1139:G:H5'	39:BN:102:ALA:CB	2.43	0.48
31:BA:1419:A:O2'	31:BA:1421:G:N7	2.41	0.48
31:BA:1468:C:C2	31:BA:1525:G:C2	3.02	0.48
31:BA:1581:G:H2'	31:BA:1582:C:H5'	1.94	0.48
31:BA:1654:A:C1'	31:BA:2823:A:H5'	2.44	0.48
31:BA:1693:U:OP2	31:BA:1694:C:H5	1.96	0.48
31:BA:2038:G:H2'	31:BA:2039:C:O4'	2.13	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2242:G:C2'	31:BA:2243:U:O5'	2.61	0.48
31:BA:2740:A:C6	31:BA:2764:A:C8	3.02	0.48
31:BA:2830:G:O2'	31:BA:2831:G:H5'	2.13	0.48
55:BA:3362:TEL:C14	55:BA:3362:TEL:O5	2.30	0.48
32:BB:15:A:H1'	32:BB:110:G:C4	2.48	0.48
32:BB:69:G:C5	32:BB:70:C:C5	3.02	0.48
34:BE:111:ARG:NH1	43:BR:2:ARG:NH2	2.61	0.48
35:BF:31:HIS:HB2	41:BP:13:ASN:HD22	1.78	0.48
40:BO:90:GLN:O	40:BO:91:LEU:HB2	2.13	0.48
45:BT:36:GLU:C	45:BT:38:ASN:H	2.17	0.48
45:BT:65:LYS:CG	45:BT:66:VAL:N	2.77	0.48
49:BX:40:LYS:CG	49:BX:41:ASN:H	2.25	0.48
49:BX:84:ALA:C	49:BX:86:GLY:N	2.67	0.48
49:BX:90:GLU:C	49:BX:92:LEU:N	2.67	0.48
49:BX:93:GLU:O	49:BX:93:GLU:HG3	2.13	0.48
1:CA:396:G:O2'	1:CA:398:C:OP1	2.27	0.48
1:CA:529:G:O6	12:CL:49:ASN:ND2	2.46	0.48
1:CA:538:G:OP1	12:CL:115:LYS:HB2	2.14	0.48
1:CA:563:A:N7	1:CA:567:G:H1'	2.28	0.48
1:CA:577:G:H2'	1:CA:578:C:H6	1.78	0.48
1:CA:816:A:OP2	1:CA:1527:C:H5'	2.14	0.48
1:CA:940:C:H2'	1:CA:941:G:C8	2.46	0.48
1:CA:1047:G:H2'	1:CA:1048:G:H5'	1.96	0.48
2:CB:8:LYS:HZ2	2:CB:217:ARG:HH11	1.59	0.48
2:CB:97:TRP:HH2	2:CB:176:GLU:HG3	1.79	0.48
4:CD:2:GLY:O	4:CD:4:TYR:N	2.46	0.48
4:CD:33:MET:CE	4:CD:33:MET:HA	2.43	0.48
4:CD:91:SER:O	4:CD:94:LEU:HB2	2.14	0.48
4:CD:119:GLN:O	4:CD:123:HIS:HD2	1.97	0.48
12:CL:34:ARG:HG2	12:CL:35:GLY:N	2.28	0.48
17:CQ:2:PRO:O	17:CQ:4:LYS:N	2.46	0.48
18:CR:53:ARG:HG3	18:CR:63:GLN:HG2	1.95	0.48
19:CS:70:LYS:C	19:CS:72:GLY:H	2.16	0.48
24:D2:26:ARG:NH1	24:D2:29:LYS:HE2	2.27	0.48
25:D3:32:GLN:HB2	31:DA:1158:C:H4'	1.95	0.48
27:D5:20:ARG:HB3	27:D5:23:HIS:CD2	2.48	0.48
27:D5:46:CYS:SG	27:D5:47:PRO:CG	3.01	0.48
30:D8:35:GLN:HB3	30:D8:36:LYS:HZ3	1.78	0.48
31:DA:79:G:C4	31:DA:80:G:C8	3.01	0.48
31:DA:259:G:H1'	31:DA:621:A:O2'	2.14	0.48
31:DA:441:U:H2'	31:DA:442:G:C8	2.48	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:528:A:C2	31:DA:2043:C:C4'	2.96	0.48
31:DA:1027:A:C6	31:DA:1126:A:C4	3.02	0.48
31:DA:1287:A:C5	31:DA:1288:U:C4	3.01	0.48
31:DA:1385:G:O2'	31:DA:1396:U:C6	2.63	0.48
31:DA:1517:G:H2'	31:DA:1518:U:O4'	2.14	0.48
31:DA:1678:G:N2	31:DA:1989:G:N2	2.52	0.48
31:DA:1848:A:O2'	31:DA:1849:G:H5'	2.13	0.48
31:DA:2291:U:C5'	31:DA:2380:C:O2	2.62	0.48
31:DA:2494:G:C5	31:DA:2495:G:N7	2.81	0.48
31:DA:2583:G:H2'	31:DA:2584:U:O2	2.14	0.48
31:DA:2786:U:C2	31:DA:2787:C:C5	3.01	0.48
33:DD:35:LYS:HZ3	33:DD:104:TYR:HD1	1.61	0.48
33:DD:79:VAL:O	33:DD:79:VAL:HG12	2.13	0.48
34:DE:24:THR:HG21	34:DE:188:VAL:CG1	2.42	0.48
34:DE:38:THR:HB	34:DE:41:LYS:HE3	1.95	0.48
35:DF:39:TRP:CZ3	35:DF:106:ARG:HD2	2.49	0.48
36:DG:132:ASN:OD1	36:DG:158:ALA:HA	2.14	0.48
37:DH:43:VAL:HG12	37:DH:53:GLU:HB2	1.95	0.48
37:DH:89:ILE:HD11	37:DH:129:THR:CB	2.40	0.48
38:DI:98:ALA:CA	38:DI:109:ILE:HD13	2.44	0.48
40:DO:104:ARG:CZ	40:DO:104:ARG:CB	2.91	0.48
40:DO:107:ARG:HE	40:DO:115:VAL:HG11	1.78	0.48
41:DP:85:LEU:HD12	41:DP:120:ALA:HB2	1.96	0.48
47:DV:72:VAL:HA	47:DV:88:ARG:HH22	1.74	0.48
48:DW:13:SER:O	48:DW:16:LYS:HB2	2.13	0.48
49:DX:65:ARG:CZ	49:DX:66:LEU:N	2.75	0.48
50:DY:80:GLY:O	50:DY:81:LYS:CB	2.61	0.48
51:DZ:27:VAL:CG2	51:DZ:36:LYS:HA	2.37	0.48
1:AA:19:C:H5''	5:AE:86:ALA:HB3	1.96	0.48
1:AA:20:U:O2'	1:AA:21:G:H5'	2.13	0.48
1:AA:264:U:H2'	1:AA:265:G:O4'	2.13	0.48
1:AA:358:U:O2'	1:AA:359:U:H5'	2.13	0.48
1:AA:505:G:C6	1:AA:535:A:C2	3.02	0.48
1:AA:516:U:C5	1:AA:517:G:C6	3.01	0.48
1:AA:540:G:H2'	1:AA:541:G:O4'	2.13	0.48
1:AA:564:C:N1	17:AQ:31:LEU:HD11	2.28	0.48
1:AA:832:C:O2'	1:AA:833:U:P	2.71	0.48
1:AA:1047:G:H2'	1:AA:1048:G:H5'	1.95	0.48
1:AA:1121:U:H3	1:AA:1152:A:H2	1.62	0.48
4:AD:2:GLY:O	4:AD:4:TYR:N	2.47	0.48
5:AE:101:ILE:HD13	5:AE:118:ILE:O	2.14	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:55:ALA:HB1	9:AI:59:PHE:CE1	2.46	0.48
10:AJ:7:LYS:HB2	10:AJ:97:GLU:CB	2.41	0.48
11:AK:20:TYR:HA	11:AK:83:ILE:O	2.13	0.48
11:AK:73:MET:SD	11:AK:103:LEU:CD2	3.01	0.48
13:AM:106:ASN:OD1	13:AM:106:ASN:N	2.47	0.48
16:AP:39:TYR:CE1	16:AP:41:PRO:HA	2.49	0.48
19:AS:70:LYS:C	19:AS:72:GLY:H	2.16	0.48
20:AT:26:ASN:HA	20:AT:29:LYS:HG2	1.95	0.48
22:B0:40:GLN:NE2	22:B0:45:PHE:H	2.10	0.48
23:B1:20:ARG:HD3	23:B1:41:ARG:HD3	1.94	0.48
23:B1:26:ARG:CB	23:B1:34:THR:HB	2.43	0.48
31:BA:36:G:C6	31:BA:37:C:C4	3.02	0.48
31:BA:526:A:O2'	31:BA:2043:C:H2'	2.13	0.48
31:BA:537:C:H5'	31:BA:538:G:OP2	2.13	0.48
31:BA:669:G:H8	31:BA:669:G:HO2'	1.55	0.48
31:BA:1324:G:C4	31:BA:1328:G:O6	2.66	0.48
31:BA:1638:C:H4'	31:BA:2710:C:O2	2.13	0.48
31:BA:1824:G:C2'	31:BA:1825:A:H5'	2.44	0.48
31:BA:1824:G:OP1	33:BD:52:ARG:NH1	2.46	0.48
31:BA:1935:G:H1'	31:BA:1964:G:N2	2.29	0.48
31:BA:2030:A:H5''	31:BA:2030:A:H8	1.79	0.48
31:BA:2193:G:C6	31:BA:2194:G:C5	3.01	0.48
31:BA:2422:A:H4'	31:BA:2423:U:OP1	2.14	0.48
31:BA:2472:G:H1'	31:BA:2478:A:N6	2.29	0.48
31:BA:2520:C:N3	31:BA:2521:C:C5	2.82	0.48
31:BA:2561:A:H2'	31:BA:2562:U:O4'	2.14	0.48
31:BA:2590:A:H2'	31:BA:2591:C:C6	2.48	0.48
33:BD:35:LYS:HZ3	33:BD:104:TYR:HD1	1.61	0.48
33:BD:255:LYS:H	33:BD:255:LYS:CE	2.26	0.48
34:BE:13:ARG:HA	34:BE:21:VAL:O	2.13	0.48
36:BG:73:ALA:HB3	36:BG:85:GLY:O	2.13	0.48
36:BG:76:SER:CB	36:BG:83:ARG:HB3	2.33	0.48
37:BH:149:ARG:HD3	37:BH:164:TYR:CE1	2.45	0.48
41:BP:8:PRO:O	41:BP:9:ASN:C	2.52	0.48
41:BP:10:PRO:O	41:BP:11:GLY:O	2.31	0.48
41:BP:112:LEU:H	41:BP:128:HIS:CD2	2.32	0.48
44:BS:35:ILE:HD11	44:BS:99:LYS:HE2	1.94	0.48
45:BT:57:PHE:C	45:BT:59:THR:N	2.67	0.48
47:BV:19:LYS:HE2	47:BV:20:LEU:CD1	2.39	0.48
47:BV:50:PRO:HG2	47:BV:51:VAL:H	1.79	0.48
47:BV:81:TYR:CD2	47:BV:81:TYR:O	2.67	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:16:A:N1	1:CA:919:A:C2	2.82	0.48
1:CA:527:G:C2'	1:CA:528:C:H5'	2.44	0.48
1:CA:582:U:C2	1:CA:760:G:C6	3.01	0.48
1:CA:675:A:C6	1:CA:676:A:C5	3.02	0.48
1:CA:676:A:H5''	11:CK:113:PRO:HB2	1.96	0.48
1:CA:682:G:C4	1:CA:709:G:N1	2.82	0.48
1:CA:718:G:H5'	11:CK:117:ASN:HB2	1.95	0.48
1:CA:785:G:C2'	1:CA:786:G:H5'	2.43	0.48
1:CA:817:C:H4'	1:CA:818:G:OP1	2.13	0.48
1:CA:872:A:C2	1:CA:874:G:C5	3.02	0.48
1:CA:1386:G:N3	1:CA:1387:G:C8	2.82	0.48
2:CB:17:PHE:HD1	2:CB:41:ILE:HG23	1.78	0.48
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.43	0.48
6:CF:69:GLU:HG2	6:CF:70:ASP:H	1.79	0.48
16:CP:45:THR:HG23	16:CP:46:PRO:HD2	1.96	0.48
16:CP:51:VAL:HG12	16:CP:52:ASP:N	2.29	0.48
20:CT:18:GLN:O	20:CT:19:SER:C	2.51	0.48
24:D2:41:ILE:O	24:D2:43:GLN:N	2.47	0.48
24:D2:48:HIS:O	24:D2:48:HIS:CG	2.66	0.48
25:D3:8:LEU:HD22	25:D3:9:VAL:N	2.29	0.48
31:DA:31:C:H2'	31:DA:32:C:O4'	2.14	0.48
31:DA:173:G:C6	31:DA:174:C:C4	3.01	0.48
31:DA:315:G:H2'	31:DA:316:C:C6	2.49	0.48
31:DA:447:A:C5	31:DA:454:A:N7	2.82	0.48
31:DA:754:C:C2	31:DA:755:C:C5	3.01	0.48
31:DA:848:G:O6	31:DA:928:G:H2'	2.14	0.48
31:DA:1367:A:N7	31:DA:1368:G:H1'	2.29	0.48
31:DA:1368:G:C2	31:DA:1369:G:C8	3.01	0.48
31:DA:1567:A:H2'	33:DD:86:PRO:HB3	1.96	0.48
31:DA:1661:G:O2'	31:DA:1662:C:H5'	2.13	0.48
31:DA:2050:C:H1'	34:DE:156:MET:HE1	1.94	0.48
31:DA:2321:G:H5''	31:DA:2322:A:OP2	2.13	0.48
31:DA:2448:A:OP1	31:DA:2499:C:OP1	2.31	0.48
31:DA:2563:U:O2	31:DA:2565:A:C8	2.67	0.48
31:DA:2600:A:C6	31:DA:2601:C:N4	2.82	0.48
31:DA:2653:U:C2'	31:DA:2654:A:OP1	2.61	0.48
31:DA:2830:G:O2'	31:DA:2831:G:H5'	2.12	0.48
31:DA:2873:A:C2	43:DR:6:SER:HB2	2.49	0.48
33:DD:16:MET:HG3	33:DD:211:ARG:HH21	1.79	0.48
33:DD:35:LYS:HE3	33:DD:65:ILE:HG22	1.96	0.48
33:DD:91:ARG:HH11	33:DD:91:ARG:CG	2.23	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:65:LYS:HG3	45:DT:66:VAL:N	2.28	0.48
46:DU:12:ARG:HA	46:DU:15:LYS:HG2	1.96	0.48
47:DV:18:LEU:HD12	47:DV:98:GLU:OE1	2.14	0.48
47:DV:19:LYS:HE2	47:DV:20:LEU:CD1	2.41	0.48
47:DV:32:THR:HG22	47:DV:33:VAL:N	2.23	0.48
49:DX:73:ARG:O	49:DX:74:PRO:C	2.51	0.48
51:DZ:3:TYR:CG	51:DZ:51:ALA:HB2	2.48	0.48
1:AA:148:G:H1	1:AA:174:C:H42	1.61	0.48
1:AA:269:C:H2'	1:AA:270:A:H8	1.79	0.48
1:AA:303:A:H1'	1:AA:555:C:O2'	2.13	0.48
1:AA:358:U:C2	1:AA:359:U:C2	3.02	0.48
1:AA:484:G:C4'	1:AA:485:G:O5'	2.61	0.48
1:AA:868:C:H2'	1:AA:869:G:O4'	2.13	0.48
1:AA:1091:U:O2	1:AA:1091:U:C2'	2.61	0.48
1:AA:1357:A:H5''	1:AA:1358:U:OP2	2.14	0.48
2:AB:59:GLU:HB2	2:AB:221:LEU:HD11	1.95	0.48
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.14	0.48
16:AP:20:VAL:HG21	16:AP:32:TYR:CD1	2.49	0.48
16:AP:38:TYR:O	16:AP:39:TYR:CB	2.61	0.48
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.28	0.48
20:AT:16:HIS:O	20:AT:19:SER:N	2.47	0.48
20:AT:31:SER:HA	20:AT:34:LYS:HD2	1.96	0.48
27:B5:11:THR:HG21	31:BA:1264:G:H5'	1.94	0.48
30:B8:8:LYS:HE2	31:BA:243:U:OP2	2.13	0.48
31:BA:38:A:H2'	31:BA:39:C:H6	1.74	0.48
31:BA:183:C:C2'	31:BA:184:C:H5'	2.44	0.48
31:BA:312:G:H4'	31:BA:331:A:N3	2.29	0.48
31:BA:892:G:C6	31:BA:894:C:C4	3.02	0.48
31:BA:994:C:OP1	46:BU:53:ARG:NH2	2.47	0.48
31:BA:1138:G:H1'	39:BN:105:GLY:O	2.13	0.48
31:BA:1854:A:H2'	31:BA:1855:G:O4'	2.13	0.48
31:BA:2051:A:H5'	31:BA:2578:G:O4'	2.13	0.48
31:BA:2394:C:P	41:BP:63:PRO:CD	3.02	0.48
31:BA:2623:G:H4'	31:BA:2825:C:O2	2.14	0.48
32:BB:45:A:H2'	32:BB:45:A:N3	2.29	0.48
34:BE:12:THR:O	34:BE:23:VAL:HG22	2.13	0.48
35:BF:183:VAL:O	35:BF:184:TYR:C	2.52	0.48
38:BI:8:PRO:C	38:BI:9:LEU:HD23	2.34	0.48
40:BO:7:TYR:C	40:BO:8:LEU:HD22	2.33	0.48
43:BR:17:ARG:HG2	43:BR:21:TYR:CE1	2.48	0.48
46:BU:61:TRP:O	46:BU:63:VAL:N	2.47	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:86:GLY:O	47:BV:87:HIS:CG	2.66	0.48
49:BX:21:PHE:CD1	49:BX:21:PHE:N	2.78	0.48
49:BX:60:ARG:CG	49:BX:72:LYS:H	2.27	0.48
1:CA:39:G:C6	1:CA:40:C:C4	3.01	0.48
1:CA:79:G:H4'	1:CA:80:G:OP1	2.12	0.48
1:CA:385:C:O2'	1:CA:386:C:H5'	2.14	0.48
1:CA:758:G:C5'	1:CA:880:C:H1'	2.43	0.48
1:CA:834:C:H2'	1:CA:835:U:H6	1.78	0.48
1:CA:861:G:H8	1:CA:861:G:O5'	1.96	0.48
1:CA:989:C:C1'	1:CA:1016:A:H2	2.27	0.48
1:CA:1189:C:H5''	3:CC:5:ILE:HG21	1.95	0.48
1:CA:1242:C:P	21:CU:10:ARG:HH12	2.37	0.48
1:CA:1261:A:H5'	1:CA:1284:C:OP1	2.13	0.48
1:CA:1285:A:OP1	1:CA:1285:A:H8	1.96	0.48
2:CB:85:ALA:O	2:CB:89:GLY:N	2.47	0.48
4:CD:106:TYR:CE1	4:CD:113:SER:HA	2.49	0.48
4:CD:148:VAL:HG12	4:CD:149:ALA:H	1.72	0.48
4:CD:172:PRO:CB	4:CD:187:ARG:HH22	2.24	0.48
4:CD:176:LEU:CG	4:CD:178:VAL:HG22	2.43	0.48
5:CE:137:GLU:O	5:CE:141:GLN:HG3	2.13	0.48
7:CG:49:ILE:HG22	7:CG:49:ILE:O	2.14	0.48
24:D2:30:ARG:O	24:D2:32:LEU:O	2.31	0.48
24:D2:46:GLN:O	24:D2:49:LYS:N	2.46	0.48
24:D2:57:ILE:HD12	24:D2:58:ALA:O	2.14	0.48
28:D6:27:LYS:HE3	31:DA:2285:C:C5	2.49	0.48
31:DA:213:A:H2'	31:DA:214:G:O4'	2.14	0.48
31:DA:407:G:H2'	31:DA:408:G:H8	1.78	0.48
31:DA:497:A:C5	31:DA:498:G:C8	3.02	0.48
31:DA:563:G:H1	31:DA:578:A:H61	1.62	0.48
31:DA:647:G:H8	31:DA:647:G:O5'	1.96	0.48
31:DA:819:A:H2	31:DA:943:U:O4'	1.97	0.48
31:DA:979:G:H3'	31:DA:980:A:H5''	1.96	0.48
31:DA:1052:C:N4	31:DA:1107:G:H1	2.12	0.48
31:DA:1337:G:C4	31:DA:1338:G:C8	3.01	0.48
31:DA:1528(A):A:N7	31:DA:1529:G:C8	2.82	0.48
31:DA:1779:U:C2	31:DA:1783:A:N7	2.82	0.48
32:DB:7:G:H4'	44:DS:29:PHE:CD1	2.48	0.48
32:DB:15:A:O2'	32:DB:110:G:C8	2.59	0.48
34:DE:2:LYS:HD3	34:DE:95:ILE:HG22	1.94	0.48
36:DG:94:LEU:CD1	36:DG:99:MET:HA	2.44	0.48
37:DH:151:ILE:HB	37:DH:162:ILE:HD11	1.95	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:110:TYR:CG	41:DP:111:ARG:N	2.81	0.48
45:DT:89:VAL:HG12	45:DT:91:ARG:HG2	1.96	0.48
47:DV:72:VAL:CG1	47:DV:88:ARG:HH22	2.27	0.48
47:DV:81:TYR:O	47:DV:81:TYR:CD2	2.67	0.48
1:AA:36:C:H2'	1:AA:37:U:C5'	2.43	0.48
1:AA:355:C:C2	1:AA:356:A:C8	3.02	0.48
1:AA:392:G:O3'	16:AP:13:HIS:HE1	1.95	0.48
1:AA:445:G:H1	1:AA:489:C:H42	1.62	0.48
1:AA:511:C:N3	1:AA:512:U:C4	2.82	0.48
1:AA:672:U:H4'	6:AF:80:ARG:NH1	2.29	0.48
1:AA:781:A:H5'	1:AA:782:A:OP2	2.13	0.48
1:AA:818:G:O2'	1:AA:820:U:H6	1.95	0.48
1:AA:914:A:C4	1:AA:915:A:C8	3.02	0.48
1:AA:1030(D):A:N7	1:AA:1031:G:N3	2.62	0.48
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.49	0.48
1:AA:1107:C:OP1	3:AC:174:PRO:HG3	2.14	0.48
1:AA:1391:U:O2'	1:AA:1392:G:H5'	2.13	0.48
2:AB:35:GLU:HA	2:AB:39:ILE:O	2.13	0.48
2:AB:82:ARG:HG3	2:AB:92:TYR:CE1	2.49	0.48
4:AD:147:ALA:HA	4:AD:182:LYS:HA	1.95	0.48
4:AD:196:LEU:HD12	4:AD:196:LEU:N	2.29	0.48
5:AE:103:GLY:O	5:AE:104:ALA:C	2.51	0.48
7:AG:75:VAL:O	7:AG:75:VAL:HG23	2.12	0.48
8:AH:86:ILE:O	8:AH:87:SER:C	2.51	0.48
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.96	0.48
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.29	0.48
12:AL:25:PRO:C	12:AL:27:LEU:N	2.67	0.48
13:AM:11:ARG:CZ	36:BG:147:ASP:HB3	2.44	0.48
20:AT:64:ASP:OD2	20:AT:81:LYS:NZ	2.46	0.48
23:B1:9:GLY:O	23:B1:10:LYS:CB	2.57	0.48
30:B8:29:LYS:NZ	30:B8:44:LYS:CB	2.77	0.48
31:BA:142(A):C:H2'	31:BA:143:G:O4'	2.14	0.48
31:BA:877:U:C2'	31:BA:878:A:H5''	2.44	0.48
31:BA:953:A:C2'	31:BA:954:G:H5'	2.44	0.48
31:BA:994:C:H1'	47:BV:10:LYS:NZ	2.28	0.48
31:BA:1385:G:O2'	31:BA:1396:U:C6	2.61	0.48
31:BA:1450(A):C:C4	31:BA:1451:C:N4	2.81	0.48
31:BA:1450(A):C:H2'	31:BA:1451:C:C6	2.49	0.48
31:BA:1547:C:O2'	31:BA:1548:C:H5'	2.13	0.48
31:BA:1598:C:H2'	31:BA:1599:C:H6	1.79	0.48
31:BA:2471:C:O2	31:BA:2471:C:C2'	2.59	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2674:G:H2'	31:BA:2675:A:O4'	2.14	0.48
34:BE:116:VAL:O	34:BE:117:MET:HB3	2.13	0.48
36:BG:37:VAL:CG2	36:BG:103:LEU:HD11	2.43	0.48
37:BH:40:GLU:O	37:BH:41:MET:CB	2.61	0.48
39:BN:103:VAL:HG11	39:BN:120:LEU:HD23	1.96	0.48
40:BO:104:ARG:C	40:BO:106:LEU:N	2.65	0.48
40:BO:107:ARG:HH11	45:BT:35:LYS:CB	2.27	0.48
44:BS:57:LYS:HG2	44:BS:58:LEU:H	1.78	0.48
44:BS:98:VAL:HG22	44:BS:99:LYS:N	2.29	0.48
45:BT:28:VAL:CG2	45:BT:46:GLU:HA	2.38	0.48
45:BT:30:VAL:CG2	45:BT:83:ILE:HG12	2.43	0.48
45:BT:61:PHE:CZ	45:BT:76:PHE:HB2	2.49	0.48
47:BV:55:ALA:C	47:BV:57:VAL:H	2.16	0.48
48:BW:86:LEU:HD12	48:BW:87:PRO:O	2.14	0.48
1:CA:171:A:H2'	1:CA:172:A:C8	2.49	0.48
1:CA:320:C:H2'	1:CA:321:A:O4'	2.14	0.48
1:CA:375:U:OP1	16:CP:69:THR:HG21	2.13	0.48
1:CA:425:G:O2'	1:CA:426:G:H5'	2.12	0.48
1:CA:509:A:H3'	1:CA:509:A:P	2.54	0.48
1:CA:515:G:N3	1:CA:537:G:C2	2.81	0.48
1:CA:618:C:H5''	1:CA:619:U:C5'	2.43	0.48
1:CA:689:C:OP1	11:CK:27:ASN:ND2	2.46	0.48
1:CA:710:G:H2'	1:CA:711:G:C8	2.49	0.48
1:CA:730:G:C5	1:CA:731:G:H1'	2.49	0.48
1:CA:1085:U:C6	1:CA:1094:G:N1	2.82	0.48
1:CA:1161:C:N3	1:CA:1176:A:N1	2.62	0.48
3:CC:54:ARG:NH1	3:CC:56:ASP:HB2	2.29	0.48
3:CC:182:ILE:HG23	3:CC:202:ILE:C	2.33	0.48
5:CE:139:LEU:C	5:CE:141:GLN:H	2.16	0.48
5:CE:139:LEU:O	5:CE:141:GLN:N	2.46	0.48
14:CN:4:LYS:HD2	14:CN:7:ILE:CD1	2.43	0.48
14:CN:24:CYS:CB	14:CN:29:ARG:HB3	2.42	0.48
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.95	0.48
19:CS:69:HIS:HB2	19:CS:74:PHE:HE2	1.78	0.48
23:D1:94:LEU:HD22	23:D1:95:LEU:N	2.29	0.48
27:D5:41:PRO:O	27:D5:42:PRO:C	2.52	0.48
27:D5:46:CYS:SG	27:D5:47:PRO:HG2	2.53	0.48
28:D6:14:THR:C	28:D6:16:CYS:H	2.17	0.48
30:D8:7:HIS:HD2	41:DP:50:ARG:HD3	1.78	0.48
31:DA:455:C:N3	31:DA:472:A:H2'	2.28	0.48
31:DA:464:U:C2'	31:DA:465:G:H5'	2.44	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:470:A:O2'	31:DA:471:A:H5'	2.14	0.48
31:DA:548:A:O2'	31:DA:549:G:OP1	2.25	0.48
31:DA:1040:C:H42	31:DA:1116:C:N4	2.10	0.48
31:DA:1142(A):A:O2'	31:DA:1143:A:H3'	2.14	0.48
31:DA:1363:C:H2'	31:DA:1364:G:C8	2.49	0.48
31:DA:1783:A:N1	31:DA:2587:A:C4	2.82	0.48
31:DA:1893:C:C6	31:DA:1894:C:C5	3.02	0.48
31:DA:2469:A:C5	31:DA:2482:G:C8	3.01	0.48
31:DA:2653:U:H2'	31:DA:2654:A:C8	2.49	0.48
31:DA:2681:C:C6	31:DA:2724:C:N4	2.82	0.48
31:DA:2712:U:C1'	31:DA:2712(A):A:C8	2.93	0.48
31:DA:2886:G:H2'	31:DA:2887:U:C6	2.38	0.48
32:DB:57:A:N3	32:DB:58:A:H8	2.11	0.48
33:DD:221:VAL:HG22	33:DD:226:MET:HE3	1.96	0.48
35:DF:34:TRP:CZ2	41:DP:12:ALA:HB2	2.49	0.48
35:DF:83:PHE:C	35:DF:84:VAL:HG23	2.33	0.48
35:DF:172:TRP:CE3	35:DF:173:VAL:HG23	2.49	0.48
36:DG:11:TYR:CG	36:DG:100:TRP:CH2	3.01	0.48
39:DN:35:ARG:CB	39:DN:42:TRP:HZ3	2.27	0.48
40:DO:7:TYR:CZ	40:DO:44:LYS:HG3	2.49	0.48
41:DP:16:ARG:NH1	41:DP:16:ARG:CG	2.57	0.48
41:DP:123:LEU:O	41:DP:124:LYS:C	2.52	0.48
43:DR:9:LYS:O	43:DR:10:LEU:CB	2.61	0.48
44:DS:71:ARG:HG2	44:DS:101:LEU:CD1	2.44	0.48
44:DS:89:ARG:O	44:DS:92:TYR:CG	2.66	0.48
44:DS:98:VAL:HG22	44:DS:99:LYS:N	2.29	0.48
45:DT:29:ARG:HB2	45:DT:85:LYS:HA	1.93	0.48
46:DU:70:ARG:HG2	46:DU:70:ARG:O	2.13	0.48
49:DX:44:GLU:C	49:DX:46:ALA:H	2.17	0.48
51:DZ:152:ALA:CB	51:DZ:167:PRO:HB2	2.44	0.48
1:AA:10:A:H2'	1:AA:11:G:H8	1.78	0.48
1:AA:78:G:H1	1:AA:91:C:N4	2.10	0.48
1:AA:254:G:OP1	17:AQ:68:ARG:HB3	2.13	0.48
1:AA:343:U:O2	1:AA:347:G:C2	2.67	0.48
1:AA:417:C:O2'	1:AA:418:C:H5'	2.13	0.48
1:AA:527:G:C2'	1:AA:528:C:H5'	2.44	0.48
1:AA:581:G:C2	1:AA:582:U:O4	2.67	0.48
1:AA:885:G:N3	1:AA:914:A:C2	2.82	0.48
1:AA:1099:G:N3	1:AA:1099:G:H2'	2.29	0.48
2:AB:158:LEU:HD12	2:AB:158:LEU:N	2.26	0.48
5:AE:110:LEU:HD12	5:AE:118:ILE:HG21	1.96	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.13	0.48
6:AF:48:LEU:HD13	6:AF:52:ILE:HG12	1.96	0.48
10:AJ:16:LEU:CD1	10:AJ:70:ARG:HE	2.26	0.48
24:B2:57:ILE:CG1	24:B2:59:ARG:HH11	2.27	0.48
25:B3:8:LEU:HG	25:B3:23:LEU:CD2	2.44	0.48
30:B8:62:LEU:C	30:B8:64:TYR:H	2.18	0.48
31:BA:30:G:C5	31:BA:31:C:C4	3.02	0.48
31:BA:31:C:C4	31:BA:32:C:C5	3.01	0.48
31:BA:32:C:C2'	31:BA:33:U:H5'	2.42	0.48
31:BA:387:U:C4'	31:BA:388:G:O5'	2.61	0.48
31:BA:866:A:C2	31:BA:867:C:C4	3.01	0.48
31:BA:1465:G:C6	31:BA:1466:G:C5	3.02	0.48
31:BA:1474:C:H3'	31:BA:1475:G:H8	1.79	0.48
31:BA:1505:C:H5	31:BA:1506:C:C6	2.32	0.48
31:BA:1670:C:OP2	31:BA:2550:G:OP1	2.31	0.48
31:BA:1843:C:O2'	31:BA:1844:C:H5'	2.14	0.48
31:BA:1845:G:H2'	31:BA:1846:G:C5'	2.43	0.48
31:BA:1921:G:H2'	31:BA:1922:G:C8	2.49	0.48
31:BA:2027:G:N2	31:BA:2037:G:C4	2.82	0.48
31:BA:2063:C:C5	31:BA:2064:C:C5	3.02	0.48
31:BA:2072:G:H2'	31:BA:2073:C:O4'	2.14	0.48
31:BA:2282:G:OP1	31:BA:2283:C:H1'	2.13	0.48
31:BA:2469:A:C5	31:BA:2482:G:C8	3.02	0.48
32:BB:66:A:C6	32:BB:109:C:C5	3.02	0.48
33:BD:77:ALA:HB2	33:BD:97:TYR:CE2	2.49	0.48
33:BD:155:LEU:O	33:BD:156:ALA:C	2.51	0.48
34:BE:63:LEU:O	34:BE:64:LYS:C	2.51	0.48
36:BG:60:LEU:HD12	36:BG:68:PRO:HD3	1.96	0.48
36:BG:71:THR:HB	36:BG:89:GLY:H	1.78	0.48
42:BQ:43:THR:OG1	42:BQ:45:GLN:HG2	2.13	0.48
42:BQ:110:THR:HB	42:BQ:112:GLU:HG3	1.95	0.48
43:BR:100:LEU:HD21	43:BR:113:LEU:CD1	2.44	0.48
44:BS:28:VAL:HG12	44:BS:29:PHE:N	2.29	0.48
44:BS:33:LYS:O	44:BS:34:HIS:CD2	2.67	0.48
46:BU:27:LEU:CD2	46:BU:27:LEU:N	2.77	0.48
50:BY:80:GLY:O	50:BY:81:LYS:CB	2.61	0.48
1:CA:130:A:H1'	1:CA:263:A:O2'	2.14	0.48
1:CA:148:G:H1	1:CA:174:C:H42	1.61	0.48
1:CA:257:G:H1	1:CA:269:C:H42	1.61	0.48
1:CA:376:G:P	16:CP:67:THR:HG21	2.54	0.48
1:CA:408:A:C6	1:CA:409:G:C5	3.02	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:448:A:C2	1:CA:487:A:C2	3.01	0.48
1:CA:479:C:H2'	1:CA:480:U:O4'	2.13	0.48
1:CA:518:C:C4	1:CA:530:G:N7	2.82	0.48
1:CA:818:G:O2'	1:CA:820:U:H6	1.96	0.48
1:CA:952:U:H4'	1:CA:964:A:H61	1.77	0.48
1:CA:1205:U:H2'	1:CA:1206:G:C8	2.49	0.48
1:CA:1305:G:C5'	21:CU:4:GLY:HA3	2.44	0.48
1:CA:1321:C:H5''	1:CA:1322:C:C5'	2.39	0.48
1:CA:1418:A:H5''	1:CA:1419:G:OP2	2.14	0.48
2:CB:29:ALA:C	2:CB:31:TYR:N	2.67	0.48
6:CF:44:GLY:HA2	6:CF:59:TYR:CD2	2.49	0.48
6:CF:94:GLN:NE2	18:CR:32:ARG:HD2	2.29	0.48
11:CK:53:SER:C	11:CK:55:LYS:N	2.66	0.48
12:CL:60:LEU:CD2	12:CL:66:VAL:HG22	2.34	0.48
13:CM:29:ARG:HA	13:CM:32:GLU:HB3	1.96	0.48
15:CO:64:ARG:O	15:CO:65:ARG:C	2.51	0.48
18:CR:65:ILE:HD12	18:CR:66:LEU:N	2.28	0.48
25:D3:50:VAL:O	25:D3:51:ALA:C	2.53	0.48
30:D8:13:ARG:NH2	31:DA:250:G:OP2	2.47	0.48
30:D8:58:ILE:HG22	41:DP:49:ARG:CD	2.44	0.48
31:DA:30:G:H2'	31:DA:31:C:H6	1.79	0.48
31:DA:90:U:O2	31:DA:90:U:C2'	2.61	0.48
31:DA:109:G:C4	31:DA:110:G:C8	3.02	0.48
31:DA:194:G:C2'	31:DA:195:A:H5'	2.44	0.48
31:DA:211:A:O2'	31:DA:212:G:H5'	2.14	0.48
31:DA:350:U:H2'	31:DA:351:G:O5'	2.14	0.48
31:DA:389:G:N1	41:DP:70:GLN:HG3	2.29	0.48
31:DA:414:C:H2'	31:DA:415:A:C8	2.48	0.48
31:DA:500:G:N2	31:DA:502:A:H3'	2.29	0.48
31:DA:1141:U:C5	39:DN:64:GLY:CA	2.97	0.48
31:DA:1344:G:H4'	31:DA:1384:A:C5	2.49	0.48
31:DA:1411:C:C2'	31:DA:1412:A:C8	2.90	0.48
31:DA:1495:A:C2'	31:DA:1496:A:N3	2.67	0.48
31:DA:1504:C:HO2'	31:DA:1505:C:C5'	2.24	0.48
31:DA:1545:A:H2'	31:DA:1546:C:H5'	1.94	0.48
31:DA:1805:U:H2'	31:DA:1806:C:C6	2.49	0.48
31:DA:1847:A:H2'	31:DA:1847:A:N3	2.28	0.48
31:DA:2019:A:C6	31:DA:2020:A:N7	2.81	0.48
31:DA:2282:G:H5''	31:DA:2283:C:O4'	2.13	0.48
31:DA:2472:G:H1'	31:DA:2478:A:N6	2.29	0.48
33:DD:31:LYS:HB2	33:DD:31:LYS:HZ2	1.79	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:53:PHE:HA	33:DD:218:ARG:HB2	1.96	0.48
33:DD:117:VAL:HA	33:DD:129:ASN:OD1	2.14	0.48
33:DD:159:ALA:N	33:DD:196:VAL:HG11	2.29	0.48
35:DF:138:GLU:O	35:DF:139:PHE:C	2.53	0.48
39:DN:13:TRP:C	39:DN:135:PRO:HG2	2.34	0.48
40:DO:35:VAL:HA	40:DO:62:VAL:CG1	2.44	0.48
42:DQ:139:GLU:O	51:DZ:99:TYR:CE2	2.66	0.48
44:DS:28:VAL:O	44:DS:29:PHE:CB	2.61	0.48
50:DY:15:VAL:CG1	50:DY:16:ALA:N	2.75	0.48
51:DZ:39:VAL:HG23	51:DZ:40:ASP:O	2.13	0.48
1:AA:236:G:H5''	17:AQ:42:TYR:OH	2.14	0.47
1:AA:579:G:H2'	1:AA:580:U:H6	1.79	0.47
1:AA:579:G:C5	1:AA:580:U:C5	3.02	0.47
1:AA:964:A:N6	1:AA:965:A:N6	2.62	0.47
2:AB:67:THR:HG21	2:AB:155:LEU:CD2	2.44	0.47
3:AC:27:LYS:HA	3:AC:27:LYS:NZ	2.28	0.47
3:AC:135:LYS:HZ2	5:AE:53:LEU:HD11	1.78	0.47
4:AD:135:LEU:C	4:AD:137:SER:N	2.68	0.47
5:AE:102:ALA:O	5:AE:107:ARG:NH1	2.46	0.47
5:AE:129:ILE:O	5:AE:132:ALA:HB3	2.13	0.47
6:AF:94:GLN:NE2	18:AR:32:ARG:HD2	2.28	0.47
11:AK:48:ILE:HG21	11:AK:63:LEU:HD13	1.95	0.47
13:AM:29:ARG:HA	13:AM:32:GLU:HB3	1.95	0.47
13:AM:78:ILE:HA	13:AM:81:LEU:HD12	1.96	0.47
21:AU:12:LYS:HG3	21:AU:17:THR:O	2.14	0.47
27:B5:36:CYS:HB2	27:B5:49:CYS:SG	2.54	0.47
30:B8:19:SER:HB3	31:BA:651:G:H5'	1.95	0.47
31:BA:449:A:H2'	31:BA:450:G:H5'	1.96	0.47
31:BA:756:C:C4	31:BA:757:U:C4	3.02	0.47
31:BA:902:C:H2'	31:BA:903:C:C6	2.49	0.47
31:BA:1052:C:N4	31:BA:1107:G:H1	2.12	0.47
31:BA:1171:G:N7	31:BA:1173:G:H1'	2.29	0.47
31:BA:1187:G:H8	31:BA:1187:G:O5'	1.97	0.47
31:BA:1386:C:OP2	31:BA:1396:U:H5	1.97	0.47
31:BA:1397:U:O2'	31:BA:1398:C:P	2.72	0.47
31:BA:1579:A:H2'	31:BA:1580:A:C8	2.49	0.47
31:BA:1651:G:N2	31:BA:2007:C:C2	2.82	0.47
31:BA:1673:U:O4	34:BE:129:HIS:HD2	1.96	0.47
31:BA:2403:C:N3	31:BA:2415:G:C2	2.82	0.47
31:BA:2574:G:C5	31:BA:2575:C:C4	3.02	0.47
31:BA:2674:G:O3'	40:BO:30:ALA:HA	2.14	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2712:U:C1'	31:BA:2712(A):A:C8	2.94	0.47
32:BB:57:A:N3	32:BB:57:A:H2'	2.28	0.47
34:BE:32:PRO:HD2	34:BE:50:GLY:H	1.79	0.47
36:BG:132:ASN:OD1	36:BG:158:ALA:HA	2.14	0.47
37:BH:19:VAL:HG21	37:BH:44:VAL:HA	1.95	0.47
37:BH:52:VAL:HG13	37:BH:65:HIS:NE2	2.29	0.47
38:BI:47:LEU:O	38:BI:51:ILE:HG12	2.12	0.47
39:BN:83:LYS:CE	39:BN:85:ILE:HD11	2.37	0.47
40:BO:111:PHE:O	40:BO:113:LYS:N	2.47	0.47
41:BP:122:PRO:HB3	41:BP:141:ALA:O	2.13	0.47
44:BS:78:LEU:O	44:BS:79:ALA:C	2.53	0.47
45:BT:106:SER:CA	45:BT:110:ILE:HG13	2.39	0.47
46:BU:10:ARG:O	46:BU:11:ARG:C	2.51	0.47
50:BY:11:ASP:OD1	50:BY:11:ASP:C	2.52	0.47
50:BY:13:VAL:HG21	50:BY:28:LYS:NZ	2.28	0.47
50:BY:46:LYS:CB	50:BY:47:LYS:HD2	2.44	0.47
51:BZ:10:ARG:NH2	51:BZ:26:GLY:O	2.47	0.47
51:BZ:125:LEU:HD23	51:BZ:126:VAL:N	2.29	0.47
1:CA:356:A:C2'	1:CA:357:G:O5'	2.62	0.47
1:CA:557:G:N1	1:CA:558:G:C2	2.82	0.47
1:CA:558:G:C5	1:CA:559:A:C2	3.02	0.47
1:CA:673:G:C6	1:CA:734:G:C6	3.02	0.47
1:CA:792:A:N3	1:CA:794:A:C5	2.81	0.47
1:CA:853:G:N1	1:CA:854:G:C5	2.82	0.47
1:CA:965:A:C2	1:CA:969:A:N1	2.82	0.47
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.78	0.47
4:CD:24:GLU:O	4:CD:26:CYS:N	2.47	0.47
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	1.96	0.47
4:CD:180:GLY:HA3	4:CD:182:LYS:HE2	1.96	0.47
8:CH:44:PHE:CE2	8:CH:109:ILE:HG21	2.49	0.47
10:CJ:65:LEU:HD13	14:CN:56:VAL:CG2	2.44	0.47
18:CR:26:LEU:HD21	18:CR:42:ARG:HD2	1.95	0.47
20:CT:21:LYS:HB3	20:CT:25:ARG:NH2	2.29	0.47
20:CT:29:LYS:O	20:CT:33:ILE:HG12	2.14	0.47
25:D3:13:ILE:HD13	25:D3:13:ILE:N	2.28	0.47
29:D7:37:LYS:HE2	31:DA:469:G:O6	2.14	0.47
31:DA:225:A:H2'	31:DA:226:G:H5'	1.95	0.47
31:DA:346:A:H2'	31:DA:347:A:O5'	2.14	0.47
31:DA:501:A:C6	31:DA:502:A:C6	3.02	0.47
31:DA:535:C:O3'	46:DU:53:ARG:NH1	2.47	0.47
31:DA:686:G:H21	31:DA:788:A:H61	1.59	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:852:G:O2'	31:DA:853:G:H5'	2.14	0.47
31:DA:857:C:C2	31:DA:858:U:C5	3.01	0.47
31:DA:877:U:C2'	31:DA:878:A:H5''	2.44	0.47
31:DA:1132:A:OP1	39:DN:82:LEU:HD23	2.14	0.47
31:DA:1519:G:H5'	31:DA:1520:G:P	2.54	0.47
31:DA:1605:C:O4'	31:DA:1610:A:C6	2.67	0.47
31:DA:1696:G:C6	31:DA:1697:G:C5	3.02	0.47
31:DA:1881:C:H3'	31:DA:1882:C:H6	1.79	0.47
31:DA:2442:C:O2'	31:DA:2443:C:H5'	2.13	0.47
31:DA:2631:G:H22	34:DE:61:ARG:HH12	1.54	0.47
31:DA:2663:G:N7	31:DA:2664:G:C6	2.81	0.47
31:DA:2670:A:H5''	31:DA:2670:A:H8	1.79	0.47
31:DA:2854:G:C5	31:DA:2855:C:C5	3.01	0.47
31:DA:2859:G:HO2'	31:DA:2860:A:P	2.37	0.47
31:DA:2889:C:H2'	31:DA:2891:G:O4'	2.13	0.47
34:DE:143:ASN:HB2	34:DE:147:PRO:HD2	1.96	0.47
35:DF:122:LYS:HD3	35:DF:122:LYS:N	2.28	0.47
36:DG:25:TYR:O	36:DG:26:GLN:HG2	2.13	0.47
36:DG:146:TYR:HA	36:DG:149:VAL:HG22	1.96	0.47
39:DN:128:HIS:CD2	39:DN:131:GLN:CB	2.97	0.47
42:DQ:78:PRO:C	42:DQ:79:LEU:HG	2.35	0.47
44:DS:33:LYS:O	44:DS:34:HIS:CD2	2.67	0.47
45:DT:74:ARG:HB3	45:DT:76:PHE:CE1	2.50	0.47
46:DU:44:ASN:N	46:DU:44:ASN:ND2	2.60	0.47
46:DU:68:ALA:O	46:DU:71:GLN:CB	2.62	0.47
49:DX:83:VAL:O	49:DX:84:ALA:CB	2.62	0.47
51:DZ:154:ASP:C	51:DZ:155:LEU:HG	2.34	0.47
1:AA:233:C:C6	1:AA:234:C:H5	2.32	0.47
1:AA:330:C:H2'	1:AA:331:G:H5'	1.95	0.47
1:AA:448:A:C2	1:AA:487:A:C2	3.02	0.47
1:AA:782:A:O3'	1:AA:1515:C:H4'	2.14	0.47
1:AA:1102:A:H2'	1:AA:1103:C:H5'	1.96	0.47
1:AA:1200:C:O5'	1:AA:1201:A:H3'	2.13	0.47
1:AA:1417:G:C6	1:AA:1482:G:C6	3.01	0.47
1:AA:1420:C:H4'	31:BA:1950:G:OP1	2.14	0.47
2:AB:60:ASP:O	2:AB:64:ARG:HG2	2.14	0.47
2:AB:85:ALA:O	2:AB:89:GLY:N	2.47	0.47
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.17	0.47
4:AD:20:TYR:CD2	4:AD:26:CYS:HB3	2.50	0.47
5:AE:100:VAL:O	5:AE:107:ARG:NH2	2.47	0.47
5:AE:137:GLU:O	5:AE:141:GLN:HG3	2.14	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:31:PHE:O	8:AH:35:ILE:HG13	2.13	0.47
9:AI:53:VAL:HG11	9:AI:85:LEU:HD13	1.96	0.47
17:AQ:27:PHE:CZ	17:AQ:36:ILE:HD11	2.49	0.47
17:AQ:56:VAL:O	17:AQ:76:LEU:HD12	2.14	0.47
20:AT:75:ASN:O	20:AT:78:ALA:HB3	2.14	0.47
22:B0:37:LEU:C	22:B0:38:VAL:HG23	2.33	0.47
22:B0:40:GLN:HE22	22:B0:45:PHE:H	1.60	0.47
24:B2:21:LEU:HD13	24:B2:50:ILE:HG22	1.97	0.47
27:B5:45:VAL:HG22	27:B5:51:TYR:CE1	2.49	0.47
31:BA:143:G:H2'	31:BA:143(A):C:C6	2.49	0.47
31:BA:197:A:N6	31:BA:2430:A:H2'	2.29	0.47
31:BA:198:C:H6	31:BA:198:C:O5'	1.97	0.47
31:BA:251:A:C5'	41:BP:51:PHE:HZ	2.27	0.47
31:BA:363(D):G:C6	31:BA:363(E):U:C4	3.02	0.47
31:BA:390:A:H4'	31:BA:391:G:H5'	1.96	0.47
31:BA:508:G:C5'	31:BA:509:C:OP1	2.61	0.47
31:BA:562:U:C4	31:BA:2036:C:O4'	2.67	0.47
31:BA:729:G:O2'	31:BA:763:G:H4'	2.14	0.47
31:BA:817:C:O2'	31:BA:839:U:H5''	2.13	0.47
31:BA:952:G:C6	31:BA:966:G:C6	3.03	0.47
31:BA:985:C:H2'	31:BA:986:C:C6	2.49	0.47
31:BA:987:G:H2'	31:BA:988:A:O4'	2.14	0.47
31:BA:1142(A):A:C4	31:BA:1144:G:C8	3.01	0.47
31:BA:1242:A:N1	41:BP:8:PRO:CG	2.77	0.47
31:BA:1773:A:N7	31:BA:1829:A:H1'	2.28	0.47
31:BA:1789:A:H2'	31:BA:1790:C:O4'	2.14	0.47
31:BA:1854:A:C8	31:BA:1855:G:C8	3.01	0.47
31:BA:1921:G:O2'	31:BA:1922:G:H5'	2.15	0.47
31:BA:2100:G:O6	31:BA:2189:U:C4	2.67	0.47
31:BA:2195:C:H2'	31:BA:2196:C:O4'	2.14	0.47
32:BB:25:A:C2'	32:BB:26:A:C8	2.88	0.47
33:BD:46:GLN:H	33:BD:46:GLN:HG3	1.32	0.47
34:BE:170:LEU:HD21	34:BE:187:ALA:O	2.14	0.47
35:BF:39:TRP:O	35:BF:42:ALA:HB3	2.14	0.47
35:BF:83:PHE:C	35:BF:84:VAL:HG23	2.33	0.47
38:BI:109:ILE:HD12	38:BI:109:ILE:N	2.28	0.47
40:BO:46:ALA:O	40:BO:47:ILE:HB	2.12	0.47
43:BR:18:LEU:O	43:BR:22:ARG:HG3	2.15	0.47
46:BU:47:TYR:HA	46:BU:50:ARG:NH2	2.29	0.47
48:BW:70:TYR:O	48:BW:107:LEU:HD12	2.13	0.47
1:CA:32:A:C2	1:CA:33:A:C4	3.01	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:122:G:H8	1:CA:122:G:O5'	1.97	0.47
1:CA:236:G:C6	1:CA:237:C:C4	3.02	0.47
1:CA:258:G:H2'	1:CA:259:G:H8	1.76	0.47
1:CA:330:C:C2'	1:CA:331:G:H5'	2.44	0.47
1:CA:502:G:OP1	12:CL:117:ARG:N	2.44	0.47
1:CA:638:G:O2'	1:CA:639:G:H5'	2.15	0.47
1:CA:985:C:C2	1:CA:1221:G:N2	2.82	0.47
1:CA:1061:G:C4	1:CA:1197:G:N2	2.82	0.47
1:CA:1157:A:C4	1:CA:1181:G:N2	2.82	0.47
1:CA:1357:A:H5''	1:CA:1358:U:OP2	2.14	0.47
3:CC:16:ARG:HA	3:CC:16:ARG:HH11	1.80	0.47
4:CD:76:ARG:HD2	4:CD:207:TYR:CE1	2.49	0.47
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.15	0.47
8:CH:119:LEU:HD12	8:CH:124:ALA:HA	1.96	0.47
10:CJ:49:VAL:HG22	14:CN:41:ARG:CB	2.44	0.47
22:D0:23:VAL:HG12	22:D0:25:ARG:O	2.14	0.47
24:D2:54:LYS:N	24:D2:56:GLN:HG2	2.30	0.47
30:D8:6:THR:CG2	31:DA:243:U:OP1	2.62	0.47
30:D8:32:LEU:HG	30:D8:35:GLN:H	1.78	0.47
31:DA:8:A:H2'	31:DA:9:U:C5	2.49	0.47
31:DA:53:A:C8	31:DA:54:G:C8	3.02	0.47
31:DA:534:U:O2'	46:DU:49:HIS:CD2	2.68	0.47
31:DA:601:C:O2	31:DA:605:C:H4'	2.14	0.47
31:DA:626:U:C5'	31:DA:627:A:H5'	2.44	0.47
31:DA:729:G:OP1	33:DD:10:THR:OG1	2.23	0.47
31:DA:822:U:C2'	31:DA:823:G:H5'	2.44	0.47
31:DA:836:G:C8	31:DA:837:C:C5	3.02	0.47
31:DA:1108:U:H2'	31:DA:1109:C:H5'	1.96	0.47
31:DA:1272:A:H3'	31:DA:1273:U:C5'	2.44	0.47
31:DA:1323:U:H2'	31:DA:1324:G:H5'	1.96	0.47
31:DA:1342:A:O2'	31:DA:1344:G:OP2	2.27	0.47
31:DA:1600:C:OP1	49:DX:35:THR:HG21	2.14	0.47
31:DA:1709:U:O2'	31:DA:2859:G:H1'	2.14	0.47
31:DA:1925:C:O2'	31:DA:1926:U:H5'	2.14	0.47
31:DA:2195:C:H2'	31:DA:2196:C:O4'	2.14	0.47
31:DA:2243:U:H2'	31:DA:2244:U:H6	1.78	0.47
31:DA:2244:U:H2'	31:DA:2245:U:O4'	2.14	0.47
31:DA:2500:U:H2'	31:DA:2504:U:C5	2.47	0.47
31:DA:2584:U:H2'	31:DA:2585:U:H6	1.77	0.47
31:DA:2870:C:C5'	43:DR:65:LEU:HD21	2.43	0.47
32:DB:15:A:H1'	32:DB:110:G:C4	2.49	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:47:VAL:HG21	34:DE:84:PHE:CD1	2.48	0.47
36:DG:45:GLU:HB2	36:DG:47:LYS:CD	2.44	0.47
36:DG:111:LEU:HD13	36:DG:120:LEU:HD21	1.96	0.47
37:DH:135:GLY:C	37:DH:137:ASP:H	2.18	0.47
38:DI:71:ILE:HG12	38:DI:72:LEU:HD22	1.96	0.47
38:DI:130:TYR:HB2	38:DI:136:VAL:HG13	1.96	0.47
41:DP:50:ARG:HH21	41:DP:50:ARG:CG	2.25	0.47
41:DP:73:GLY:O	41:DP:74:GLU:C	2.52	0.47
41:DP:90:ARG:O	41:DP:91:PHE:CB	2.60	0.47
47:DV:81:TYR:O	47:DV:81:TYR:CG	2.67	0.47
49:DX:47:PHE:O	49:DX:48:LYS:C	2.51	0.47
50:DY:13:VAL:HG21	50:DY:28:LYS:HZ2	1.79	0.47
51:DZ:6:LYS:HB3	51:DZ:8:TYR:CE1	2.48	0.47
51:DZ:27:VAL:O	51:DZ:87:ASP:HA	2.15	0.47
51:DZ:84:GLU:HA	51:DZ:84:GLU:OE2	2.14	0.47
1:AA:38:G:H22	1:AA:397:A:P	2.36	0.47
1:AA:378:G:N2	1:AA:386:C:C2	2.83	0.47
1:AA:495:A:H4'	1:AA:496:A:OP1	2.13	0.47
1:AA:910:C:H2'	1:AA:911:U:O4'	2.13	0.47
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.29	0.47
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.44	0.47
4:AD:43:HIS:O	4:AD:45:GLN:N	2.47	0.47
4:AD:148:VAL:HG13	4:AD:152:SER:HB2	1.96	0.47
4:AD:149:ALA:HB3	4:AD:152:SER:OG	2.13	0.47
5:AE:101:ILE:CD1	5:AE:119:LEU:HA	2.42	0.47
8:AH:1:MET:H3	8:AH:1:MET:CE	2.06	0.47
8:AH:119:LEU:HD12	8:AH:124:ALA:HA	1.96	0.47
11:AK:24:SER:OG	11:AK:25:TYR:N	2.47	0.47
11:AK:127:LYS:HA	11:AK:127:LYS:HE2	1.96	0.47
12:AL:60:LEU:HD22	12:AL:60:LEU:H	1.78	0.47
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.97	0.47
17:AQ:2:PRO:O	17:AQ:4:LYS:N	2.47	0.47
19:AS:60:VAL:HG21	19:AS:74:PHE:HB3	1.96	0.47
23:B1:65:SER:OG	23:B1:66:HIS:HD2	1.97	0.47
31:BA:624:C:H6	31:BA:624:C:O5'	1.98	0.47
31:BA:778:G:C5	31:BA:779:U:C5	3.02	0.47
31:BA:828:U:O2	31:BA:828:U:C2'	2.62	0.47
31:BA:911:A:C2'	42:BQ:9:TYR:OH	2.57	0.47
31:BA:1187:G:H5''	47:BV:82:ARG:CZ	2.43	0.47
31:BA:1213:A:C8	31:BA:1237:A:C6	3.03	0.47
31:BA:1380:G:N2	31:BA:1570:A:C2	2.81	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1434:A:N6	31:BA:1558:A:H62	2.09	0.47
31:BA:1459:G:H8	31:BA:1461:G:H1'	1.77	0.47
31:BA:1499:C:H2'	31:BA:1500:G:H5'	1.93	0.47
31:BA:1996:C:C4'	31:BA:1997:G:OP1	2.62	0.47
31:BA:2377:A:H4'	44:BS:107:GLU:HB3	1.97	0.47
31:BA:2400:G:C5	31:BA:2401:U:C5	3.02	0.47
31:BA:2885:C:N3	31:BA:2886:G:H1'	2.29	0.47
33:BD:91:ARG:O	33:BD:107:ALA:HB3	2.13	0.47
35:BF:22:ALA:C	35:BF:26:ALA:HB2	2.33	0.47
36:BG:81:LYS:O	36:BG:83:ARG:HG3	2.14	0.47
41:BP:16:ARG:NH1	41:BP:18:ARG:HG3	2.29	0.47
41:BP:39:LYS:HD3	41:BP:39:LYS:HA	1.54	0.47
41:BP:71:VAL:CG1	41:BP:72:PRO:CD	2.88	0.47
41:BP:105:LEU:N	41:BP:105:LEU:CD1	2.73	0.47
41:BP:110:TYR:CE2	41:BP:111:ARG:HD3	2.49	0.47
42:BQ:11:LYS:H	42:BQ:73:PRO:HG2	1.78	0.47
45:BT:89:VAL:HG12	45:BT:91:ARG:HG2	1.96	0.47
47:BV:23:GLU:O	47:BV:24:LYS:C	2.53	0.47
47:BV:62:LEU:HD22	47:BV:98:GLU:CG	2.45	0.47
49:BX:32:PRO:HA	49:BX:75:ASP:HB2	1.96	0.47
1:CA:38:G:H22	1:CA:397:A:P	2.38	0.47
1:CA:357:G:OP1	1:CA:366:C:O2'	2.27	0.47
1:CA:853:G:C2	1:CA:854:G:C5	3.02	0.47
1:CA:932:C:H5'	7:CG:4:ARG:HG2	1.96	0.47
1:CA:1189:C:OP1	10:CJ:51:ARG:NH2	2.47	0.47
5:CE:12:LEU:HD13	5:CE:31:LEU:HB2	1.96	0.47
5:CE:78:HIS:HE1	5:CE:142:LEU:HA	1.79	0.47
6:CF:8:ILE:HG22	6:CF:9:VAL:N	2.29	0.47
8:CH:96:GLY:H	8:CH:99:GLU:CD	2.17	0.47
9:CI:48:GLU:H	9:CI:49:PRO:HD2	1.78	0.47
11:CK:91:ARG:O	11:CK:95:ILE:HG12	2.14	0.47
18:CR:36:ASN:HD22	18:CR:39:VAL:HG11	1.80	0.47
24:D2:21:LEU:CD1	24:D2:50:ILE:HG22	2.44	0.47
29:D7:5:TRP:HB3	31:DA:1612:C:O3'	2.14	0.47
31:DA:259:G:H21	31:DA:621:A:H8	1.61	0.47
31:DA:381:G:C6	31:DA:394:A:C6	3.01	0.47
31:DA:448:U:C4	31:DA:583:G:H1'	2.49	0.47
31:DA:528:A:H2	31:DA:2043:C:C5'	2.19	0.47
31:DA:602:G:OP2	31:DA:602:G:C8	2.65	0.47
31:DA:689:A:O2'	31:DA:780:G:H5'	2.14	0.47
31:DA:762:U:H4'	31:DA:763:G:O5'	2.13	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1016:G:H2'	31:DA:1017:G:O4'	2.15	0.47
31:DA:1027:A:N6	31:DA:1126:A:C4	2.82	0.47
31:DA:1227:G:H5''	46:DU:16:LYS:HZ3	1.78	0.47
31:DA:1257:C:H4'	35:DF:83:PHE:CE2	2.49	0.47
31:DA:1437:C:H6	31:DA:1437:C:H5''	1.79	0.47
31:DA:1459:G:C4	31:DA:1461:G:C8	3.03	0.47
31:DA:1528(A):A:H2'	31:DA:1529:G:C4'	2.44	0.47
31:DA:1850:G:H2'	31:DA:1851:U:H6	1.79	0.47
31:DA:1987:G:C4	31:DA:1988:C:C5	3.02	0.47
31:DA:2288:A:H4'	31:DA:2289:G:OP2	2.14	0.47
31:DA:2315:G:H3'	31:DA:2316:C:C6	2.49	0.47
31:DA:2400:G:H5'	31:DA:2401:U:OP2	2.14	0.47
31:DA:2476:A:C2	31:DA:2477:C:H5''	2.49	0.47
31:DA:2543:G:H2'	31:DA:2544:G:H8	1.79	0.47
33:DD:224:ALA:O	33:DD:225:ALA:CB	2.62	0.47
40:DO:2:ILE:HG23	40:DO:6:THR:HG21	1.96	0.47
40:DO:34:THR:O	40:DO:37:ASP:HB2	2.13	0.47
45:DT:30:VAL:O	45:DT:30:VAL:HG23	2.14	0.47
46:DU:27:LEU:N	46:DU:27:LEU:HD22	2.28	0.47
47:DV:13:ARG:NH1	47:DV:13:ARG:HG2	2.29	0.47
48:DW:4:LYS:HG2	48:DW:106:ILE:CG2	2.43	0.47
48:DW:92:ARG:O	48:DW:93:ALA:CB	2.62	0.47
49:DX:60:ARG:HB2	49:DX:72:LYS:C	2.34	0.47
1:AA:51:A:C2	1:AA:116:A:H1'	2.50	0.47
1:AA:689:C:OP1	11:AK:27:ASN:ND2	2.47	0.47
1:AA:811:C:H4'	1:AA:900:A:H62	1.79	0.47
1:AA:1228:C:H5''	13:AM:108:ARG:NH2	2.29	0.47
1:AA:1470:G:O2'	1:AA:1471:G:H5'	2.14	0.47
2:AB:69:LEU:HB3	2:AB:162:ILE:CG2	2.36	0.47
3:AC:34:LEU:O	3:AC:34:LEU:HD23	2.15	0.47
3:AC:173:VAL:HG13	3:AC:182:ILE:HD13	1.96	0.47
4:AD:14:ARG:HA	4:AD:39:PRO:HB3	1.97	0.47
5:AE:12:LEU:CD1	5:AE:31:LEU:HB2	2.44	0.47
6:AF:63:TYR:CD2	6:AF:63:TYR:N	2.82	0.47
6:AF:94:GLN:HE21	18:AR:32:ARG:HH11	1.62	0.47
8:AH:132:GLU:O	8:AH:134:ILE:N	2.47	0.47
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	2.14	0.47
11:AK:53:SER:C	11:AK:55:LYS:N	2.67	0.47
13:AM:24:GLY:C	13:AM:25:ILE:HD12	2.34	0.47
16:AP:51:VAL:HG13	16:AP:52:ASP:N	2.29	0.47
23:B1:94:LEU:HD22	23:B1:95:LEU:N	2.30	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:12:SER:O	27:B5:13:LYS:C	2.52	0.47
28:B6:20:ASN:CG	28:B6:21:TYR:H	2.16	0.47
28:B6:48:VAL:HG22	28:B6:49:HIS:H	1.78	0.47
31:BA:330:A:H2	31:BA:1210:A:O2'	1.95	0.47
31:BA:358:U:C5	31:BA:359:A:N7	2.82	0.47
31:BA:461:C:C2'	31:BA:462:C:H5'	2.44	0.47
31:BA:628:G:C6	31:BA:629:G:C6	3.03	0.47
31:BA:662:G:P	41:BP:18:ARG:HD2	2.54	0.47
31:BA:1142(A):A:H5'	31:BA:1142(A):A:C8	2.50	0.47
31:BA:1195:G:H5''	31:BA:1195:G:H8	1.79	0.47
31:BA:1209:G:O2'	31:BA:1237:A:N1	2.44	0.47
31:BA:1213:A:H1'	31:BA:1238:G:N3	2.29	0.47
31:BA:1508:A:H2'	31:BA:1509:C:OP1	2.14	0.47
31:BA:1793:C:H2'	31:BA:1794:U:C6	2.49	0.47
31:BA:1839:G:C8	31:BA:1839:G:C5'	2.97	0.47
31:BA:2078:C:C4	31:BA:2079:U:C4	3.02	0.47
31:BA:2590:A:C2	31:BA:2605:U:C2	3.03	0.47
31:BA:2751:G:H2'	31:BA:2751:G:N3	2.28	0.47
31:BA:2840:C:O2'	31:BA:2841:C:H5'	2.14	0.47
31:BA:2882:A:H2'	31:BA:2883:A:O5'	2.15	0.47
55:BA:3362:TEL:O48	55:BA:3362:TEL:H573	2.13	0.47
33:BD:5:LYS:HD2	33:BD:5:LYS:H	1.77	0.47
33:BD:83:GLU:OE1	33:BD:104:TYR:OH	2.26	0.47
33:BD:146:GLU:HB2	33:BD:189:CYS:HB3	1.96	0.47
34:BE:11:MET:HE3	34:BE:186:GLY:CA	2.44	0.47
39:BN:65:LYS:HD2	39:BN:67:LEU:HB2	1.95	0.47
39:BN:72:TYR:O	39:BN:73:THR:C	2.52	0.47
40:BO:61:VAL:O	40:BO:61:VAL:HG13	2.15	0.47
41:BP:79:ARG:HH22	41:BP:109:GLY:HA2	1.75	0.47
41:BP:91:PHE:CE2	41:BP:95:VAL:HG12	2.50	0.47
46:BU:66:ASN:HD21	46:BU:70:ARG:HH21	1.61	0.47
47:BV:90:PRO:CG	47:BV:91:TYR:N	2.77	0.47
47:BV:98:GLU:O	47:BV:99:ILE:HD13	2.15	0.47
49:BX:61:GLY:O	49:BX:70:LEU:HB3	2.14	0.47
51:BZ:140:ASP:OD2	51:BZ:140:ASP:N	2.46	0.47
1:CA:373:A:H2'	1:CA:374:A:C8	2.46	0.47
1:CA:417:C:O2'	1:CA:418:C:H5'	2.14	0.47
1:CA:452:A:OP1	16:CP:43:LYS:HE3	2.13	0.47
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.29	0.47
1:CA:543:C:O2'	1:CA:544:G:H5'	2.13	0.47
1:CA:769:G:C2'	1:CA:770:C:H5'	2.44	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:924:C:H6	1:CA:924:C:O5'	1.97	0.47
1:CA:1060:C:C2	1:CA:1198:G:C2	3.02	0.47
1:CA:1287:A:H2	1:CA:1353:G:N3	2.12	0.47
1:CA:1386:G:C2	1:CA:1387:G:C8	3.03	0.47
2:CB:54:THR:O	2:CB:57:PHE:HB3	2.14	0.47
2:CB:91:PRO:HG3	2:CB:154:LEU:CB	2.36	0.47
2:CB:97:TRP:HH2	2:CB:176:GLU:CG	2.27	0.47
4:CD:3:ARG:HD3	4:CD:3:ARG:O	2.15	0.47
8:CH:26:VAL:O	8:CH:59:LEU:N	2.47	0.47
8:CH:31:PHE:O	8:CH:35:ILE:HG13	2.14	0.47
8:CH:111:ILE:HD11	8:CH:137:VAL:HG21	1.96	0.47
9:CI:29:ASN:OD1	9:CI:64:THR:HG23	2.15	0.47
9:CI:53:VAL:HG11	9:CI:85:LEU:HD13	1.96	0.47
22:D0:21:LEU:HD13	22:D0:41:ARG:HG3	1.96	0.47
22:D0:40:GLN:HE21	22:D0:43:THR:CA	2.24	0.47
25:D3:8:LEU:O	25:D3:32:GLN:N	2.47	0.47
31:DA:30:G:C5	31:DA:31:C:C4	3.03	0.47
31:DA:204:A:O3'	31:DA:205:G:H4'	2.14	0.47
31:DA:258:G:C5	31:DA:259:G:N7	2.82	0.47
31:DA:363(E):U:C3'	31:DA:363(F):A:O4'	2.61	0.47
31:DA:461:C:C2'	31:DA:462:C:H5'	2.44	0.47
31:DA:477:A:H2'	31:DA:478:A:C8	2.48	0.47
31:DA:494:G:H2'	31:DA:495:G:C8	2.48	0.47
31:DA:570:G:H2'	31:DA:2030:A:C6	2.48	0.47
31:DA:787:U:C5	31:DA:791:C:C4	3.03	0.47
31:DA:864:G:C4	31:DA:865:C:C5	3.03	0.47
31:DA:1384:A:N3	31:DA:1405:U:H1'	2.29	0.47
31:DA:1484:G:H1	31:DA:1506:C:N4	2.12	0.47
31:DA:1508:A:H2'	31:DA:1509:C:OP1	2.13	0.47
31:DA:1515:G:C2'	31:DA:1516:C:H5'	2.45	0.47
31:DA:1588:C:H2'	31:DA:1588:C:O2	2.13	0.47
31:DA:2003:G:H2'	31:DA:2004:G:O5'	2.14	0.47
31:DA:2306:C:C6	31:DA:2307:G:H1'	2.48	0.47
31:DA:2348:U:O4	31:DA:2382:G:C2	2.68	0.47
31:DA:2400:G:C5	31:DA:2401:U:C5	3.02	0.47
31:DA:2592:G:H2'	31:DA:2593:U:O4'	2.15	0.47
31:DA:2665:A:H2'	31:DA:2666:C:O4'	2.14	0.47
32:DB:24:G:N2	32:DB:28:C:N3	2.62	0.47
34:DE:11:MET:HE3	34:DE:186:GLY:CA	2.42	0.47
39:DN:58:ASP:O	39:DN:60:ILE:N	2.47	0.47
45:DT:35:LYS:HG3	45:DT:36:GLU:N	2.29	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:2:PHE:O	47:DV:3:ALA:CB	2.62	0.47
49:DX:30:VAL:HG12	49:DX:31:HIS:H	1.78	0.47
49:DX:85:PRO:O	49:DX:86:GLY:C	2.53	0.47
50:DY:41:GLY:O	50:DY:42:VAL:C	2.53	0.47
50:DY:45:VAL:CG1	50:DY:62:GLU:OE2	2.60	0.47
1:AA:403:C:H5''	4:AD:136:PRO:HD2	1.95	0.47
1:AA:479:C:H2'	1:AA:480:U:O4'	2.14	0.47
1:AA:682:G:C4	1:AA:709:G:N1	2.82	0.47
1:AA:1072:G:C6	1:AA:1104:G:N1	2.82	0.47
1:AA:1273:G:H3'	1:AA:1274:G:C8	2.49	0.47
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.50	0.47
1:AA:1442:G:C5	1:AA:1442(B):A:N1	2.82	0.47
1:AA:1495:U:O2	31:BA:1912:A:C2	2.61	0.47
9:AI:96:LEU:HD12	9:AI:101:PHE:HB2	1.96	0.47
16:AP:6:LEU:HD23	16:AP:17:TYR:CG	2.49	0.47
16:AP:23:ASP:O	16:AP:24:ALA:C	2.52	0.47
23:B1:90:ILE:O	23:B1:94:LEU:HB2	2.14	0.47
27:B5:51:TYR:HD2	27:B5:52:TYR:CZ	2.30	0.47
30:B8:38:GLY:C	30:B8:40:GLU:H	2.16	0.47
31:BA:196:A:C4	31:BA:805:G:C6	3.02	0.47
31:BA:280:C:C2'	31:BA:281:G:O5'	2.62	0.47
31:BA:623:G:H2'	31:BA:624:C:C6	2.49	0.47
31:BA:923:C:H2'	31:BA:924:C:H6	1.77	0.47
31:BA:975:C:O2	31:BA:975:C:H2'	2.14	0.47
31:BA:1452:A:C6	31:BA:2702:U:O2	2.67	0.47
31:BA:1504:C:O2'	31:BA:1505:C:O5'	2.31	0.47
31:BA:1609:A:H2'	31:BA:1610:A:H5'	1.96	0.47
31:BA:1793:C:H2'	31:BA:1794:U:H6	1.78	0.47
31:BA:1845:G:O2'	31:BA:1846:G:H5'	2.13	0.47
31:BA:2392:A:H2	31:BA:2424:C:N4	2.04	0.47
31:BA:2733:A:H2'	31:BA:2734:A:O4'	2.14	0.47
32:BB:40:U:N3	32:BB:44:G:OP2	2.43	0.47
33:BD:133:LEU:HD21	33:BD:191:ALA:HB2	1.96	0.47
33:BD:215:LEU:HD13	33:BD:217:ARG:HH21	1.79	0.47
34:BE:46:ALA:HA	34:BE:82:ARG:O	2.15	0.47
34:BE:116:VAL:CG2	34:BE:122:PHE:CD2	2.97	0.47
35:BF:34:TRP:HB2	41:BP:10:PRO:O	2.14	0.47
36:BG:129:GLY:O	36:BG:130:ASN:CB	2.63	0.47
41:BP:141:ALA:H	25:D3:1:MET:CE	2.27	0.47
50:BY:32:PRO:O	50:BY:35:TYR:N	2.48	0.47
50:BY:47:LYS:HZ3	50:BY:47:LYS:HB3	1.78	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:44:G:C6	1:CA:45:U:C2	3.02	0.47
1:CA:991:U:O2'	1:CA:992:U:P	2.72	0.47
1:CA:1130:A:N3	1:CA:1146:A:C2	2.83	0.47
1:CA:1440:C:H2'	1:CA:1441:G:O4'	2.13	0.47
3:CC:106:VAL:HG12	3:CC:108:ASN:C	2.35	0.47
5:CE:12:LEU:CD1	5:CE:31:LEU:HB2	2.45	0.47
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.14	0.47
12:CL:117:ARG:CZ	12:CL:117:ARG:HB2	2.45	0.47
16:CP:23:ASP:O	16:CP:25:ARG:N	2.46	0.47
19:CS:36:ARG:HD2	19:CS:52:TYR:O	2.14	0.47
28:D6:20:ASN:CG	28:D6:21:TYR:N	2.67	0.47
28:D6:27:LYS:CD	31:DA:2285:C:OP2	2.61	0.47
29:D7:29:LYS:NZ	31:DA:210:C:OP2	2.37	0.47
30:D8:61:LEU:HD23	30:D8:61:LEU:HA	1.51	0.47
31:DA:29:U:O5'	31:DA:29:U:H6	1.98	0.47
31:DA:443:A:C1'	31:DA:1201:C:O4'	2.61	0.47
31:DA:504:U:H6	31:DA:504:U:H3'	1.79	0.47
31:DA:985:C:H2'	31:DA:986:C:H6	1.79	0.47
31:DA:1131:G:H4'	39:DN:82:LEU:HB3	1.96	0.47
31:DA:1245:G:H5''	41:DP:16:ARG:NH2	2.28	0.47
31:DA:1276:A:O2'	43:DR:16:HIS:HE1	1.98	0.47
31:DA:1320:C:H4'	31:DA:1321:A:OP1	2.14	0.47
31:DA:1397:U:O2'	31:DA:1398:C:P	2.73	0.47
31:DA:1450:G:P	31:DA:1530:C:N4	2.87	0.47
31:DA:1622:G:C2	31:DA:1623:G:C8	3.02	0.47
31:DA:2291:U:H5''	31:DA:2380:C:O2	2.13	0.47
31:DA:2467:C:H2'	31:DA:2468:G:O4'	2.14	0.47
31:DA:2579:C:H2'	31:DA:2580:U:O4'	2.15	0.47
31:DA:2660:A:N3	31:DA:2660:A:O5'	2.47	0.47
33:DD:32:SER:HA	33:DD:36:PRO:HD3	1.96	0.47
34:DE:77:ILE:HG22	34:DE:78:LEU:O	2.13	0.47
36:DG:129:GLY:O	36:DG:130:ASN:CB	2.62	0.47
38:DI:33:ARG:HB2	38:DI:35:LEU:HG	1.95	0.47
40:DO:10:VAL:HG21	40:DO:16:ALA:C	2.31	0.47
42:DQ:55:VAL:HG22	42:DQ:56:ARG:N	2.28	0.47
43:DR:76:VAL:HG13	43:DR:80:PHE:CD2	2.49	0.47
45:DT:98:LYS:HG2	45:DT:100:TYR:OH	2.14	0.47
46:DU:62:ILE:HG22	46:DU:63:VAL:N	2.29	0.47
48:DW:29:LEU:CD1	48:DW:51:LEU:HD11	2.44	0.47
51:DZ:5:LEU:HD23	51:DZ:5:LEU:HA	1.60	0.47
51:DZ:119:GLU:C	51:DZ:121:HIS:H	2.18	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:623:C:C4	1:AA:624:C:C5	3.03	0.47
1:AA:624:C:H4'	16:AP:11:SER:H	1.78	0.47
1:AA:690:G:H2'	1:AA:691:G:O4'	2.15	0.47
1:AA:758:G:C5'	1:AA:880:C:H1'	2.44	0.47
1:AA:840:C:H4'	1:AA:848:C:C2	2.49	0.47
1:AA:988:G:C2	1:AA:1218:C:O2	2.68	0.47
1:AA:1064:G:C1'	1:AA:1065:U:OP2	2.63	0.47
1:AA:1272:G:C6	1:AA:1273:G:N7	2.82	0.47
1:AA:1285:A:H4'	1:AA:1286:A:O5'	2.14	0.47
1:AA:1428:A:H2'	1:AA:1429:C:O4'	2.14	0.47
3:AC:16:ARG:HA	3:AC:16:ARG:HH11	1.79	0.47
7:AG:37:ASN:ND2	9:AI:40:LEU:HD22	2.30	0.47
9:AI:78:LYS:HZ2	9:AI:78:LYS:HB2	1.80	0.47
9:AI:121:ARG:HD3	9:AI:122:ALA:O	2.13	0.47
11:AK:38:ASN:N	11:AK:38:ASN:ND2	2.60	0.47
11:AK:82:VAL:CG1	11:AK:108:ILE:HG12	2.45	0.47
15:AO:43:LEU:CD1	15:AO:56:LEU:HD22	2.45	0.47
16:AP:14:ASN:OD1	16:AP:16:HIS:HE1	1.97	0.47
19:AS:69:HIS:HB2	19:AS:74:PHE:HE2	1.79	0.47
30:B8:29:LYS:HZ3	30:B8:44:LYS:HB2	1.80	0.47
30:B8:60:LEU:HB3	30:B8:63:PRO:HG2	1.97	0.47
31:BA:53:A:C8	31:BA:54:G:C8	3.03	0.47
31:BA:225:A:H2'	31:BA:226:G:H5'	1.95	0.47
31:BA:271(L):U:H5''	31:BA:271(M):G:C5	2.50	0.47
31:BA:272(G):C:H2'	31:BA:272(G):C:O2	2.14	0.47
31:BA:400:G:H8	31:BA:400:G:O5'	1.98	0.47
31:BA:524:U:H4'	31:BA:555:U:H4'	1.97	0.47
31:BA:614:U:O2	31:BA:614:U:O5'	2.32	0.47
31:BA:919:G:H5'	32:BB:81:G:H1'	1.95	0.47
31:BA:934:G:H2'	31:BA:935:C:C6	2.50	0.47
31:BA:2034:U:O2'	31:BA:2035:G:H5'	2.14	0.47
31:BA:2884:U:H5	31:BA:2885:C:C5	2.31	0.47
32:BB:24:G:N2	32:BB:28:C:N3	2.62	0.47
33:BD:28:GLU:CB	33:BD:29:PRO:CD	2.93	0.47
33:BD:35:LYS:NZ	33:BD:64:ILE:O	2.43	0.47
33:BD:92:ILE:HD12	33:BD:92:ILE:O	2.14	0.47
33:BD:159:ALA:C	33:BD:161:THR:N	2.66	0.47
34:BE:70:ALA:O	34:BE:73:GLU:N	2.47	0.47
34:BE:167:VAL:HG22	34:BE:168:MET:H	1.78	0.47
35:BF:7:TYR:HB3	35:BF:16:GLY:CA	2.44	0.47
35:BF:34:TRP:CZ2	41:BP:12:ALA:HB2	2.49	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:94:LEU:HB2	36:BG:98:ARG:HB2	1.96	0.47
42:BQ:140:ALA:CB	51:BZ:99:TYR:HB2	2.44	0.47
44:BS:99:LYS:O	44:BS:106:ARG:NH1	2.41	0.47
45:BT:33:LYS:HD3	45:BT:33:LYS:HA	1.33	0.47
46:BU:90:VAL:HG22	47:BV:39:LEU:CD1	2.42	0.47
49:BX:60:ARG:HB2	49:BX:72:LYS:C	2.35	0.47
49:BX:85:PRO:O	49:BX:87:GLN:HG2	2.15	0.47
51:BZ:5:LEU:HD23	51:BZ:5:LEU:HA	1.58	0.47
1:CA:342:C:N3	1:CA:348:G:C2	2.83	0.47
1:CA:378:G:C5	1:CA:379:C:C4	3.03	0.47
1:CA:544:G:N1	1:CA:545:C:C4	2.83	0.47
1:CA:817:C:O2'	1:CA:1527:C:H4'	2.14	0.47
1:CA:976:G:OP1	14:CN:32:SER:N	2.43	0.47
1:CA:979:C:H3'	1:CA:980:C:C5'	2.42	0.47
1:CA:1086:U:H2'	1:CA:1087:G:O4'	2.15	0.47
2:CB:71:VAL:HB	2:CB:164:VAL:HG22	1.96	0.47
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.68	0.47
4:CD:94:LEU:O	4:CD:97:LEU:HB2	2.14	0.47
17:CQ:31:LEU:HG	17:CQ:32:TYR:CE2	2.48	0.47
23:D1:9:GLY:O	23:D1:10:LYS:CB	2.58	0.47
31:DA:272:G:O6	31:DA:421:U:H2'	2.14	0.47
31:DA:389:G:H1	41:DP:71:VAL:N	2.12	0.47
31:DA:459:U:C5	31:DA:469:G:N2	2.83	0.47
31:DA:588:U:OP2	31:DA:588:U:H6	1.97	0.47
31:DA:1005:C:C2	31:DA:1143:A:C6	3.02	0.47
31:DA:1175:U:C4'	31:DA:1176:G:H2'	2.43	0.47
31:DA:1410:G:H2'	31:DA:1411:C:C5	2.49	0.47
31:DA:1461:G:N3	31:DA:1461:G:H2'	2.29	0.47
31:DA:1543:C:OP2	31:DA:1543:C:H6	1.94	0.47
31:DA:1652:A:H2'	31:DA:1653:G:H5'	1.95	0.47
31:DA:1690:A:C8	31:DA:1691:C:C6	3.02	0.47
31:DA:1939:U:OP1	31:DA:2604:U:O2'	2.27	0.47
31:DA:2047:U:O2'	31:DA:2823:A:N1	2.43	0.47
31:DA:2075:U:H2'	31:DA:2238:G:N2	2.29	0.47
31:DA:2099:U:H3	31:DA:2190:G:H1	1.61	0.47
31:DA:2248:C:H3'	31:DA:2249:U:H6	1.78	0.47
31:DA:2498:C:O2'	31:DA:2499:C:H5'	2.13	0.47
31:DA:2557:G:C2'	31:DA:2558:C:H5'	2.44	0.47
31:DA:2561:A:H2'	31:DA:2562:U:O4'	2.15	0.47
32:DB:17:C:O2	32:DB:18:G:C8	2.68	0.47
33:DD:35:LYS:HE2	33:DD:65:ILE:HG22	1.96	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:270:ILE:C	33:DD:271:ILE:HG13	2.34	0.47
34:DE:158:GLY:O	34:DE:159:HIS:C	2.51	0.47
36:DG:151:ALA:O	36:DG:153:ARG:NH1	2.48	0.47
41:DP:21:ARG:CG	41:DP:21:ARG:O	2.62	0.47
42:DQ:42:ILE:HD13	42:DQ:97:VAL:HG21	1.96	0.47
42:DQ:116:GLU:O	42:DQ:117:ALA:C	2.52	0.47
44:DS:94:TYR:HE1	44:DS:98:VAL:HB	1.79	0.47
46:DU:15:LYS:HG3	46:DU:16:LYS:N	2.30	0.47
48:DW:88:ARG:NH1	48:DW:94:ASP:OD1	2.48	0.47
51:DZ:4:ARG:CZ	51:DZ:58:VAL:HG11	2.45	0.47
1:AA:66:G:H2'	1:AA:66:G:N3	2.30	0.47
1:AA:84:U:C5	1:AA:88:A:C4	3.02	0.47
1:AA:385:C:O2'	1:AA:386:C:H5'	2.15	0.47
1:AA:438:G:H4'	4:AD:123:HIS:ND1	2.29	0.47
1:AA:444:C:C2	1:AA:445:G:N7	2.82	0.47
1:AA:445:G:C2	1:AA:446:G:C4	3.02	0.47
1:AA:458:C:N4	1:AA:474:G:H1	2.13	0.47
1:AA:562:C:C4	1:AA:884:U:C6	3.02	0.47
1:AA:564:C:O2'	8:AH:91:ARG:NH2	2.47	0.47
1:AA:633:G:N7	1:AA:634:C:C5	2.83	0.47
1:AA:676:A:H5''	11:AK:113:PRO:HB2	1.97	0.47
1:AA:774:G:H2'	1:AA:775:G:C5'	2.45	0.47
1:AA:790:A:N6	1:AA:791:G:O6	2.47	0.47
1:AA:825:G:N2	8:AH:11:THR:HG21	2.30	0.47
1:AA:932:C:H5'	7:AG:4:ARG:HG2	1.96	0.47
1:AA:965:A:C2	1:AA:969:A:N1	2.83	0.47
1:AA:979:C:H3'	1:AA:980:C:C5'	2.42	0.47
1:AA:984:C:N3	1:AA:1222:G:C2	2.83	0.47
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.29	0.47
1:AA:1242:C:P	21:AU:10:ARG:HH12	2.37	0.47
1:AA:1371:G:C6	1:AA:1372:U:C4	3.03	0.47
1:AA:1432:G:H8	1:AA:1432:G:O5'	1.97	0.47
1:AA:1442:G:C6	1:AA:1442(B):A:C2	3.03	0.47
8:AH:14:ARG:O	8:AH:18:ARG:HD3	2.15	0.47
8:AH:17:THR:O	8:AH:20:TYR:N	2.47	0.47
9:AI:5:TYR:CD2	9:AI:18:PHE:CE2	3.03	0.47
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.78	0.47
10:AJ:83:GLU:HG2	10:AJ:83:GLU:O	2.15	0.47
16:AP:51:VAL:HG13	16:AP:52:ASP:H	1.79	0.47
18:AR:57:GLY:O	18:AR:58:LEU:HD12	2.14	0.47
18:AR:69:THR:O	18:AR:70:ILE:C	2.50	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.13	0.47
20:AT:21:LYS:HB3	20:AT:25:ARG:NH2	2.29	0.47
22:B0:31:VAL:CB	22:B0:35:ASN:ND2	2.76	0.47
24:B2:45:SER:HA	24:B2:47:ASN:HD21	1.79	0.47
29:B7:15:THR:CG2	29:B7:16:HIS:CE1	2.98	0.47
31:BA:85:G:OP1	50:BY:9:LYS:CB	2.63	0.47
31:BA:251:A:H5''	41:BP:51:PHE:CZ	2.50	0.47
31:BA:534:U:O2'	46:BU:49:HIS:CD2	2.67	0.47
31:BA:627:A:C5	31:BA:637:A:N7	2.83	0.47
31:BA:637:A:H4'	31:BA:638:G:O5'	2.15	0.47
31:BA:742:G:H2'	31:BA:743:G:C8	2.50	0.47
31:BA:817:C:C2	31:BA:818:G:C8	3.03	0.47
31:BA:848:G:H5'	31:BA:848:G:C8	2.43	0.47
31:BA:870:A:H2'	31:BA:870:A:N3	2.29	0.47
31:BA:881:G:N2	31:BA:896:A:H62	2.13	0.47
31:BA:950:G:C5	31:BA:951:C:C4	3.03	0.47
31:BA:958:U:OP2	42:BQ:14:ARG:NH1	2.48	0.47
31:BA:1159:U:H2'	31:BA:1160:G:H8	1.78	0.47
31:BA:1223:G:N2	31:BA:1226:A:OP2	2.44	0.47
31:BA:1248:G:C8	46:BU:3:ARG:HB2	2.50	0.47
31:BA:1255:U:H5''	31:BA:1256:G:O5'	2.14	0.47
31:BA:1318:C:C3'	31:BA:1319:G:H5''	2.44	0.47
31:BA:1331:A:HO2'	31:BA:1332:G:H8	1.63	0.47
31:BA:1353:A:H5''	33:BD:38:LYS:NZ	2.30	0.47
31:BA:1394:U:H6	31:BA:1394:U:H3'	1.80	0.47
31:BA:1429:G:C4	31:BA:1430:C:C5	3.03	0.47
31:BA:1500:G:C5	31:BA:1501:C:C4	3.03	0.47
31:BA:1515:G:C2'	31:BA:1516:C:H5'	2.45	0.47
31:BA:1718:G:C2	31:BA:1745:C:O2	2.68	0.47
31:BA:1759:A:H4'	31:BA:2715:C:O4'	2.14	0.47
31:BA:1845:G:H2'	31:BA:1846:G:H5'	1.95	0.47
31:BA:2052:G:C2	31:BA:2053:G:C8	3.03	0.47
31:BA:2469:A:N7	31:BA:2482:G:C8	2.83	0.47
31:BA:2579:C:C4	31:BA:2580:U:C5	3.03	0.47
31:BA:2603:G:C5	31:BA:2604:U:C5	3.03	0.47
33:BD:224:ALA:O	33:BD:225:ALA:HB2	2.14	0.47
33:BD:270:ILE:C	33:BD:271:ILE:HG13	2.35	0.47
36:BG:114:ILE:HG22	36:BG:115:ARG:HG3	1.96	0.47
36:BG:125:PHE:HB3	36:BG:166:ASP:HB2	1.96	0.47
36:BG:138:GLN:O	36:BG:141:PHE:HD2	1.98	0.47
38:BI:79:ILE:HA	38:BI:80:PRO:HD3	1.77	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:88:ILE:HD11	38:BI:122:GLU:N	2.30	0.47
38:BI:130:TYR:CG	38:BI:131:LYS:N	2.81	0.47
39:BN:82:LEU:HD12	39:BN:82:LEU:N	2.30	0.47
39:BN:109:LYS:H	39:BN:109:LYS:HG2	1.46	0.47
41:BP:34:GLY:O	41:BP:35:HIS:C	2.50	0.47
41:BP:91:PHE:HZ	41:BP:95:VAL:HB	1.78	0.47
42:BQ:78:PRO:C	42:BQ:79:LEU:HG	2.33	0.47
43:BR:10:LEU:HD13	43:BR:17:ARG:HD2	1.97	0.47
44:BS:34:HIS:CD2	44:BS:54:LEU:HB2	2.49	0.47
45:BT:24:PRO:HA	45:BT:49:VAL:HG13	1.96	0.47
45:BT:54:ARG:HA	45:BT:59:THR:HB	1.97	0.47
46:BU:44:ASN:N	46:BU:44:ASN:ND2	2.62	0.47
46:BU:70:ARG:HG2	46:BU:70:ARG:O	2.15	0.47
47:BV:83:ARG:HH11	47:BV:83:ARG:CG	2.27	0.47
49:BX:52:VAL:HB	49:BX:80:ILE:HG21	1.95	0.47
49:BX:70:LEU:O	49:BX:71:GLY:C	2.52	0.47
49:BX:73:ARG:O	49:BX:74:PRO:C	2.53	0.47
50:BY:75:ILE:CG1	50:BY:79:CYS:HA	2.45	0.47
51:BZ:56:VAL:O	51:BZ:57:ILE:HD13	2.14	0.47
51:BZ:143:GLY:O	51:BZ:144:LEU:HD13	2.15	0.47
1:CA:30:U:H4'	1:CA:31:G:OP2	2.14	0.47
1:CA:59:A:C8	1:CA:354:G:N1	2.83	0.47
1:CA:189(B):C:N4	1:CA:189(J):G:H1	2.12	0.47
1:CA:189(F):U:C2	17:CQ:72:ARG:NH1	2.82	0.47
1:CA:189(F):U:C4	17:CQ:72:ARG:NH2	2.83	0.47
1:CA:581:G:HO2'	1:CA:582:U:H6	1.63	0.47
1:CA:659:U:H2'	1:CA:659:U:O2	2.14	0.47
1:CA:682:G:C6	1:CA:683:G:N7	2.83	0.47
1:CA:683:G:C2	1:CA:708:C:N3	2.83	0.47
1:CA:770:C:O2'	1:CA:771:G:H5'	2.15	0.47
1:CA:786:G:C2	1:CA:787:A:C4	3.03	0.47
1:CA:805:C:C2'	1:CA:806:C:H5'	2.44	0.47
1:CA:840:C:H4'	1:CA:848:C:C2	2.50	0.47
1:CA:1101:A:H61	2:CB:103:THR:CB	2.26	0.47
1:CA:1102:A:C2'	1:CA:1103:C:H5'	2.45	0.47
1:CA:1273:G:H3'	1:CA:1274:G:C8	2.49	0.47
1:CA:1293:G:O2'	1:CA:1294:G:H8	1.97	0.47
2:CB:201:ILE:CG2	2:CB:214:ILE:HG21	2.31	0.47
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.96	0.47
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.22	0.47
4:CD:50:ARG:HA	4:CD:51:PRO:HD3	1.83	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:72:GLU:OE1	4:CD:207:TYR:OH	2.33	0.47
6:CF:40:VAL:HA	6:CF:62:TRP:O	2.14	0.47
6:CF:50:TYR:CZ	18:CR:77:GLY:HA2	2.49	0.47
6:CF:85:VAL:O	6:CF:85:VAL:HG12	2.14	0.47
8:CH:64:LYS:CG	8:CH:79:VAL:HG21	2.44	0.47
9:CI:65:VAL:HG22	9:CI:66:ARG:N	2.30	0.47
9:CI:73:GLN:O	9:CI:77:ILE:HG13	2.14	0.47
10:CJ:82:ILE:HD12	10:CJ:86:MET:HE2	1.97	0.47
10:CJ:83:GLU:HG2	10:CJ:83:GLU:O	2.13	0.47
12:CL:28:LYS:O	12:CL:29:GLY:C	2.53	0.47
13:CM:12:ASN:OD1	13:CM:46:LYS:HE2	2.15	0.47
14:CN:57:ARG:HG2	14:CN:58:LYS:N	2.30	0.47
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	2.23	0.47
18:CR:72:ARG:O	18:CR:75:ILE:N	2.48	0.47
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.15	0.47
19:CS:60:VAL:HG21	19:CS:74:PHE:HB3	1.96	0.47
22:D0:24:LYS:HG3	22:D0:36:ILE:HD11	1.97	0.47
22:D0:40:GLN:HE22	22:D0:45:PHE:H	1.63	0.47
23:D1:10:LYS:HG2	23:D1:11:ARG:H	1.77	0.47
23:D1:28:GLY:C	23:D1:30:VAL:H	2.17	0.47
24:D2:26:ARG:N	24:D2:26:ARG:CD	2.76	0.47
31:DA:71:A:C5	31:DA:73:A:N1	2.83	0.47
31:DA:128:C:O2'	31:DA:129:C:P	2.72	0.47
31:DA:157:U:H5''	31:DA:171:G:N2	2.22	0.47
31:DA:426:C:C2'	31:DA:427:U:H5'	2.45	0.47
31:DA:729:G:O2'	31:DA:763:G:H4'	2.15	0.47
31:DA:930:U:O4'	31:DA:930:U:O2	2.32	0.47
31:DA:945:A:C2	31:DA:2448:A:C6	3.03	0.47
31:DA:995:C:N3	39:DN:4:TYR:CZ	2.83	0.47
31:DA:1151:G:O3'	46:DU:81:HIS:HB2	2.15	0.47
31:DA:1176:G:C1'	31:DA:1177:A:OP1	2.63	0.47
31:DA:1248:G:C2	46:DU:3:ARG:HD2	2.50	0.47
31:DA:1279:G:H5'	43:DR:34:ILE:HD11	1.97	0.47
31:DA:1446:C:C6	31:DA:1446:C:C3'	2.97	0.47
31:DA:1449:A:H5'	31:DA:1450:G:OP2	2.15	0.47
31:DA:1455:G:C2'	31:DA:1456:G:H5'	2.44	0.47
31:DA:1496:A:H8	31:DA:1577:C:O2'	1.98	0.47
31:DA:1722:A:C5	31:DA:1741:A:C6	3.03	0.47
31:DA:1772:G:H2'	31:DA:1773:A:O3'	2.14	0.47
31:DA:2192:G:H2'	31:DA:2193:G:H5'	1.96	0.47
31:DA:2346:A:H5''	31:DA:2383:G:C1'	2.41	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2409:G:H2'	31:DA:2410:G:O4'	2.14	0.47
31:DA:2415:G:C4	31:DA:2416:C:C5	3.02	0.47
31:DA:2721:A:H2'	31:DA:2722:G:O4'	2.13	0.47
31:DA:2731:G:C6	31:DA:2732:G:O6	2.68	0.47
31:DA:2734:A:H2'	31:DA:2735:G:H5'	1.97	0.47
32:DB:57:A:N3	32:DB:57:A:H2'	2.29	0.47
33:DD:85:ASP:OD1	33:DD:86:PRO:HD2	2.15	0.47
33:DD:244:ARG:HA	33:DD:245:PRO:HA	1.67	0.47
33:DD:255:LYS:N	33:DD:255:LYS:HZ1	2.13	0.47
35:DF:132:VAL:C	35:DF:134:GLY:N	2.66	0.47
35:DF:178:PRO:HB3	35:DF:198:ALA:CB	2.45	0.47
35:DF:205:ARG:C	35:DF:206:ILE:HG13	2.34	0.47
36:DG:27:ASN:O	36:DG:30:GLU:HB3	2.15	0.47
36:DG:37:VAL:CG2	36:DG:103:LEU:HD11	2.43	0.47
36:DG:114:ILE:HG12	36:DG:140:ILE:HD12	1.97	0.47
37:DH:91:GLY:HA2	37:DH:160:LYS:HZ2	1.79	0.47
40:DO:107:ARG:HH11	45:DT:35:LYS:HB2	1.79	0.47
41:DP:71:VAL:CG1	41:DP:72:PRO:CD	2.90	0.47
44:DS:20:ARG:NH1	44:DS:87:PHE:C	2.67	0.47
45:DT:36:GLU:C	45:DT:38:ASN:H	2.17	0.47
45:DT:82:LEU:HD12	45:DT:82:LEU:N	2.29	0.47
45:DT:106:SER:CA	45:DT:110:ILE:HG13	2.41	0.47
46:DU:82:GLY:O	46:DU:113:ALA:HA	2.15	0.47
48:DW:79:GLY:O	48:DW:80:PRO:C	2.52	0.47
49:DX:21:PHE:HB3	49:DX:90:GLU:HG3	1.96	0.47
49:DX:36:LYS:NZ	49:DX:39:ILE:CA	2.74	0.47
49:DX:38:GLU:OE1	49:DX:38:GLU:CA	2.62	0.47
50:DY:8:LYS:HE2	50:DY:72:VAL:CG2	2.40	0.47
50:DY:13:VAL:HG21	50:DY:28:LYS:NZ	2.30	0.47
50:DY:45:VAL:HG22	50:DY:62:GLU:HB3	1.87	0.47
51:DZ:51:ALA:O	51:DZ:52:SER:HB3	2.15	0.47
51:DZ:53:ILE:HG13	51:DZ:53:ILE:O	2.14	0.47
1:AA:125:U:H2'	1:AA:126:G:C8	2.49	0.47
1:AA:241:C:H2'	1:AA:242:C:H6	1.80	0.47
1:AA:253:U:H2'	1:AA:254:G:C8	2.50	0.47
1:AA:380:G:C2	1:AA:384:G:C6	3.03	0.47
1:AA:575:G:OP1	1:AA:576:G:OP1	2.32	0.47
1:AA:854:G:H3'	1:AA:871:U:O4	2.15	0.47
1:AA:875:C:C3'	1:AA:876:G:H5''	2.44	0.47
1:AA:1293:G:O2'	1:AA:1294:G:P	2.73	0.47
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.80	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:66:VAL:HG12	3:AC:66:VAL:O	2.15	0.47
4:AD:11:LEU:C	4:AD:13:ARG:N	2.64	0.47
4:AD:119:GLN:O	4:AD:123:HIS:HD2	1.97	0.47
6:AF:6:VAL:HA	6:AF:90:VAL:HA	1.96	0.47
9:AI:5:TYR:HD2	9:AI:18:PHE:CE2	2.33	0.47
19:AS:27:GLU:HB3	19:AS:28:LYS:H	1.58	0.47
27:B5:31:VAL:HG23	27:B5:32:PRO:N	2.30	0.47
31:BA:272(B):G:O2'	31:BA:272(C):G:H5'	2.15	0.47
31:BA:272(B):G:O2'	31:BA:272(C):G:O4'	2.32	0.47
31:BA:588:U:OP2	31:BA:588:U:H6	1.98	0.47
31:BA:743:G:H2'	31:BA:744:G:C5'	2.45	0.47
31:BA:833:U:H1'	41:BP:55:ARG:HH11	1.80	0.47
31:BA:930:U:O4'	31:BA:930:U:O2	2.29	0.47
31:BA:1047:G:N2	31:BA:1111:A:N6	2.51	0.47
31:BA:1293:C:H2'	31:BA:1294:U:H6	1.79	0.47
31:BA:1856:G:C2	31:BA:1887:C:N3	2.83	0.47
31:BA:1913:A:H4'	31:BA:1914:C:H5''	1.97	0.47
31:BA:1987:G:C5	31:BA:1988:C:C5	3.02	0.47
31:BA:2003:G:H2'	31:BA:2004:G:O5'	2.15	0.47
31:BA:2442:C:O2'	31:BA:2443:C:H5'	2.14	0.47
31:BA:2875:C:C4'	45:BT:5:ALA:HB2	2.35	0.47
32:BB:17:C:N3	32:BB:18:G:C8	2.83	0.47
34:BE:34:VAL:O	34:BE:34:VAL:CG2	2.63	0.47
34:BE:52:LEU:CB	34:BE:76:ARG:HB2	2.39	0.47
34:BE:72:VAL:O	34:BE:73:GLU:C	2.53	0.47
34:BE:111:ARG:HA	43:BR:2:ARG:CG	2.38	0.47
35:BF:93:LYS:HB3	35:BF:94:PRO:HD2	1.97	0.47
39:BN:65:LYS:O	39:BN:69:GLN:CB	2.49	0.47
40:BO:35:VAL:HA	40:BO:62:VAL:CG1	2.45	0.47
42:BQ:44:ALA:O	42:BQ:45:GLN:C	2.53	0.47
44:BS:71:ARG:HG2	44:BS:101:LEU:CD1	2.45	0.47
45:BT:27:THR:OG1	45:BT:28:VAL:N	2.47	0.47
45:BT:28:VAL:O	45:BT:29:ARG:CB	2.63	0.47
47:BV:11:GLN:C	47:BV:12:TYR:CD2	2.88	0.47
47:BV:66:ARG:HD2	47:BV:67:GLY:H	1.76	0.47
50:BY:76:CYS:O	50:BY:78:ALA:N	2.48	0.47
51:BZ:100:VAL:HG11	51:BZ:137:ILE:HG12	1.95	0.47
1:CA:67:C:H1'	1:CA:171:A:C2	2.50	0.47
1:CA:345:C:H4'	1:CA:346:G:O5'	2.15	0.47
1:CA:436:C:O2'	1:CA:437:U:P	2.72	0.47
1:CA:552:U:O2'	12:CL:86:ARG:O	2.32	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:832:C:O2'	1:CA:833:U:P	2.73	0.47
1:CA:1365:G:C6	1:CA:1366:C:C4	3.03	0.47
2:CB:59:GLU:HB2	2:CB:221:LEU:HD11	1.97	0.47
3:CC:7:PRO:O	3:CC:11:ARG:HG2	2.14	0.47
3:CC:157:ILE:C	3:CC:159:GLY:H	2.18	0.47
8:CH:39:LEU:HD22	8:CH:39:LEU:H	1.79	0.47
8:CH:51:VAL:CG1	8:CH:60:ARG:HG3	2.43	0.47
19:CS:29:ARG:HB3	19:CS:47:HIS:HA	1.96	0.47
22:D0:37:LEU:O	22:D0:38:VAL:HG22	2.14	0.47
24:D2:37:PHE:HE2	24:D2:40:SER:HA	1.80	0.47
27:D5:52:TYR:O	27:D5:53:ALA:C	2.51	0.47
31:DA:45:C:H2'	31:DA:47:C:H6	1.80	0.47
31:DA:272(H):C:N4	31:DA:363(C):G:H1	2.13	0.47
31:DA:567:A:N1	31:DA:571:A:C8	2.82	0.47
31:DA:573:G:O6	31:DA:2030:A:H3'	2.15	0.47
31:DA:620:G:H4'	31:DA:621:A:OP1	2.14	0.47
31:DA:695:G:C2	31:DA:768:G:C5	3.03	0.47
31:DA:729:G:H2'	31:DA:1775:U:H1'	1.97	0.47
31:DA:838:C:C4	31:DA:839:U:C5	3.03	0.47
31:DA:1747:G:C5	31:DA:1747(A):G:N7	2.83	0.47
31:DA:1932:A:H2'	31:DA:1933:G:H5'	1.97	0.47
31:DA:2018:G:H2'	31:DA:2019:A:C8	2.49	0.47
31:DA:2323:G:H2'	31:DA:2324:C:O4'	2.15	0.47
31:DA:2469:A:H5'	31:DA:2470:G:OP2	2.15	0.47
31:DA:2682:U:C5	34:DE:11:MET:HE1	2.50	0.47
31:DA:2712:U:H1'	31:DA:2712(A):A:H8	1.76	0.47
31:DA:2729:G:H1'	34:DE:187:ALA:CB	2.32	0.47
34:DE:95:ILE:HB	34:DE:96:PHE:HD1	1.78	0.47
34:DE:112:GLY:O	34:DE:159:HIS:HA	2.15	0.47
36:DG:94:LEU:HB2	36:DG:98:ARG:HB2	1.96	0.47
38:DI:130:TYR:CB	38:DI:136:VAL:HG13	2.45	0.47
39:DN:58:ASP:OD2	39:DN:59:LYS:HE3	2.14	0.47
39:DN:109:LYS:H	39:DN:109:LYS:HG2	1.45	0.47
40:DO:77:ILE:HG13	45:DT:74:ARG:HG2	1.96	0.47
41:DP:8:PRO:C	41:DP:10:PRO:HD3	2.35	0.47
42:DQ:134:ARG:O	42:DQ:136:ALA:N	2.47	0.47
49:DX:7:VAL:HG11	49:DX:39:ILE:HB	1.97	0.47
1:AA:60:A:P	1:AA:60:A:C8	3.08	0.47
1:AA:182:U:N3	1:AA:183:G:H1'	2.30	0.47
1:AA:421:U:N3	3:AC:127:ARG:NH1	2.62	0.47
1:AA:922:G:C2	1:AA:1396:A:C2	3.03	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.44	0.47
4:AD:20:TYR:HD2	4:AD:26:CYS:HB3	1.80	0.47
7:AG:111:ARG:HB3	7:AG:113:GLU:HG2	1.96	0.47
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.14	0.47
15:AO:76:GLU:HG3	15:AO:77:ARG:N	2.30	0.47
28:B6:27:LYS:HG3	31:BA:2285:C:OP2	2.15	0.47
30:B8:5:LYS:HG2	31:BA:242:G:C8	2.50	0.47
30:B8:29:LYS:NZ	30:B8:44:LYS:HB2	2.30	0.47
30:B8:61:LEU:HD13	31:BA:593:G:O2'	2.15	0.47
31:BA:203:C:H3'	31:BA:204:A:H5''	1.97	0.47
31:BA:357:A:C2	31:BA:358:U:C2	3.02	0.47
31:BA:582:G:H2'	31:BA:583:G:C8	2.50	0.47
31:BA:597:U:H2'	31:BA:598:G:C8	2.50	0.47
31:BA:675:A:C6	31:BA:676:A:C6	3.03	0.47
31:BA:867:C:C5	31:BA:868:U:C4	3.02	0.47
31:BA:903:C:C3'	31:BA:904:C:H5''	2.44	0.47
31:BA:1275:A:H4'	31:BA:1276:A:O5'	2.15	0.47
31:BA:1316:U:H2'	31:BA:1317:A:H8	1.78	0.47
31:BA:1450(A):C:N3	31:BA:1451:C:N4	2.63	0.47
31:BA:1558:A:H1'	31:BA:1559:G:OP2	2.15	0.47
31:BA:1747:G:C5	31:BA:1747(A):G:N7	2.83	0.47
31:BA:2235:G:H2'	31:BA:2236:C:H6	1.76	0.47
31:BA:2859:G:H3'	31:BA:2859:G:H8	1.77	0.47
31:BA:2889:C:H3'	31:BA:2891:G:C8	2.47	0.47
32:BB:21:G:O2'	32:BB:22:U:O5'	2.32	0.47
32:BB:40:U:H1'	32:BB:45:A:N6	2.30	0.47
32:BB:71:C:H2'	32:BB:72:G:O4'	2.14	0.47
33:BD:58:HIS:CD2	33:BD:59:LYS:H	2.31	0.47
34:BE:203:LYS:HE3	34:BE:204:ALA:HB2	1.97	0.47
35:BF:38:ARG:HH11	41:BP:16:ARG:HH22	1.63	0.47
36:BG:25:TYR:O	36:BG:26:GLN:HG2	2.14	0.47
36:BG:111:LEU:HD13	36:BG:120:LEU:HD21	1.97	0.47
40:BO:9:GLU:O	40:BO:83:ALA:HB1	2.15	0.47
41:BP:80:TYR:CE1	41:BP:111:ARG:HB3	2.49	0.47
41:BP:85:LEU:HD12	41:BP:120:ALA:CB	2.45	0.47
41:BP:146:VAL:O	41:BP:147:LEU:O	2.33	0.47
41:BP:149:GLU:O	41:BP:149:GLU:HG3	2.14	0.47
44:BS:87:PHE:HZ	44:BS:97:ARG:HH22	1.61	0.47
44:BS:89:ARG:O	44:BS:92:TYR:CG	2.67	0.47
45:BT:89:VAL:HG12	45:BT:91:ARG:CG	2.45	0.47
46:BU:62:ILE:HA	46:BU:65:ILE:HD12	1.96	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:13:ARG:HG2	47:BV:13:ARG:NH1	2.30	0.47
47:BV:49:THR:HA	47:BV:50:PRO:HD3	1.82	0.47
51:BZ:54:HIS:O	51:BZ:55:HIS:CG	2.68	0.47
51:BZ:92:SER:HB2	51:BZ:94:GLU:H	1.79	0.47
1:CA:509:A:H2'	1:CA:510:A:C8	2.50	0.47
1:CA:666:G:C6	1:CA:741:G:C6	3.03	0.47
1:CA:792:A:H1'	1:CA:794:A:N7	2.30	0.47
1:CA:1116:C:C4	1:CA:1117:G:C8	3.02	0.47
1:CA:1371:G:C6	1:CA:1372:U:C4	3.03	0.47
4:CD:67:ILE:HG22	4:CD:68:TYR:CD1	2.50	0.47
9:CI:61:ALA:HB1	9:CI:63:ILE:HD11	1.97	0.47
13:CM:48:LEU:HD11	13:CM:53:VAL:HG22	1.96	0.47
15:CO:18:PHE:CZ	15:CO:21:ASP:HB2	2.49	0.47
20:CT:67:ALA:HB2	20:CT:77:ALA:HB2	1.96	0.47
23:D1:90:ILE:O	23:D1:94:LEU:HB2	2.15	0.47
24:D2:12:GLU:HA	24:D2:14:ARG:NH2	2.28	0.47
24:D2:26:ARG:HG3	49:DX:5:TYR:CB	2.45	0.47
24:D2:32:LEU:O	24:D2:33:MET:C	2.51	0.47
31:DA:246:C:C2'	31:DA:247:G:H5'	2.45	0.47
31:DA:259:G:C2	31:DA:260:G:C8	3.03	0.47
31:DA:259:G:C2'	31:DA:260:G:H5'	2.44	0.47
31:DA:271(T):C:H2'	31:DA:271(U):G:H5'	1.96	0.47
31:DA:356:G:N2	31:DA:357:A:N3	2.63	0.47
31:DA:419:C:O2'	31:DA:420:C:H5'	2.14	0.47
31:DA:480:A:OP2	50:DY:46:LYS:HD3	2.15	0.47
31:DA:483:A:H3'	31:DA:484:C:C6	2.50	0.47
31:DA:564:C:H2'	31:DA:565:C:O4'	2.15	0.47
31:DA:572:A:C2	31:DA:573:G:H1'	2.50	0.47
31:DA:699:A:H2'	31:DA:700:G:O4'	2.15	0.47
31:DA:725:G:C6	31:DA:726:G:N1	2.82	0.47
31:DA:859:G:O2'	31:DA:916:G:O6	2.28	0.47
31:DA:933:A:H2'	31:DA:934:G:H5'	1.95	0.47
31:DA:995:C:C2	39:DN:4:TYR:OH	2.56	0.47
31:DA:1049:C:O2	31:DA:1049:C:H2'	2.14	0.47
31:DA:1242:A:N1	41:DP:8:PRO:HG3	2.30	0.47
31:DA:1450(A):C:C2	31:DA:1451:C:C5	3.02	0.47
31:DA:1465:G:C6	31:DA:1466:G:C5	3.03	0.47
31:DA:1515:G:H4'	31:DA:1556:C:O2'	2.14	0.47
31:DA:1591:G:C2'	31:DA:1592:C:H5'	2.45	0.47
31:DA:1655:A:H3'	31:DA:1656:C:C6	2.50	0.47
31:DA:1686:C:N4	31:DA:1687:G:C6	2.83	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1792:G:O2'	31:DA:1793:C:H5'	2.15	0.47
31:DA:1799:G:O6	33:DD:178:PRO:HG2	2.15	0.47
31:DA:1808:U:H2'	31:DA:1809:A:O4'	2.15	0.47
31:DA:1845:G:O2'	31:DA:1846:G:H5'	2.14	0.47
31:DA:1925:C:C2'	31:DA:1926:U:H5'	2.45	0.47
31:DA:1992:G:O5'	31:DA:1992:G:C8	2.68	0.47
31:DA:2059:A:H5''	35:DF:71:GLY:HA2	1.95	0.47
31:DA:2526:G:C5	31:DA:2527:C:C4	3.03	0.47
33:DD:63:ARG:CZ	33:DD:86:PRO:HD3	2.45	0.47
33:DD:242:ARG:HD2	33:DD:242:ARG:N	2.30	0.47
34:DE:111:ARG:HD2	34:DE:160:TYR:CD1	2.50	0.47
36:DG:7:LEU:HD23	36:DG:7:LEU:HA	1.80	0.47
36:DG:22:ARG:HD2	36:DG:23:PHE:CZ	2.50	0.47
36:DG:81:LYS:O	36:DG:83:ARG:HG3	2.15	0.47
37:DH:85:LYS:NZ	37:DH:145:ALA:CA	2.76	0.47
39:DN:42:TRP:CG	46:DU:64:ARG:NH1	2.83	0.47
39:DN:55:VAL:O	39:DN:56:ASN:C	2.52	0.47
41:DP:105:LEU:H	41:DP:105:LEU:CD1	2.17	0.47
45:DT:22:PHE:CE2	45:DT:85:LYS:HE3	2.50	0.47
46:DU:27:LEU:N	46:DU:27:LEU:CD2	2.78	0.47
46:DU:49:HIS:CA	46:DU:52:ARG:HB2	2.35	0.47
46:DU:90:VAL:HG22	47:DV:39:LEU:CD1	2.43	0.47
48:DW:41:LYS:HA	48:DW:41:LYS:HD2	1.63	0.47
49:DX:36:LYS:O	49:DX:39:ILE:HG23	2.14	0.47
1:AA:16:A:N1	1:AA:919:A:H2	2.13	0.47
1:AA:27:G:C4	1:AA:28:G:C8	3.03	0.47
1:AA:50:A:N6	1:AA:361:G:H4'	2.30	0.47
1:AA:191:G:N9	20:AT:105:SER:HB3	2.28	0.47
1:AA:192:U:H4'	20:AT:103:GLY:HA2	1.95	0.47
1:AA:375:U:H2'	1:AA:376:G:H8	1.79	0.47
1:AA:386:C:C2'	1:AA:387:U:C5'	2.81	0.47
1:AA:520:A:C2	1:AA:536:C:O2	2.67	0.47
1:AA:881:G:H2'	1:AA:882:C:O4'	2.15	0.47
1:AA:927:G:OP2	1:AA:1503:A:C4	2.68	0.47
1:AA:950:U:H2'	1:AA:951:G:C8	2.50	0.47
1:AA:973:G:C1'	10:AJ:55:LYS:HG2	2.45	0.47
1:AA:1240:U:P	7:AG:116:ALA:HB2	2.55	0.47
1:AA:1434:A:H2'	1:AA:1435:G:O4'	2.15	0.47
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.79	0.47
1:AA:1524:C:OP1	11:AK:120:ARG:NH1	2.48	0.47
4:AD:61:LYS:HZ1	4:AD:62:GLN:NE2	2.13	0.47

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:79:PHE:CD1	4:AD:207:TYR:CD1	2.98	0.47
6:AF:44:GLY:HA2	6:AF:59:TYR:CD2	2.51	0.47
9:AI:94:ALA:O	9:AI:98:PRO:HG2	2.15	0.47
12:AL:62:SER:C	12:AL:64:TYR:N	2.57	0.47
20:AT:83:ARG:O	20:AT:86:ARG:HB3	2.15	0.47
22:B0:74:ARG:HH22	32:BB:13:A:C5'	2.26	0.47
24:B2:29:LYS:O	24:B2:33:MET:SD	2.73	0.47
24:B2:37:PHE:HE2	24:B2:40:SER:HA	1.79	0.47
31:BA:194:G:H2'	31:BA:195:A:O4'	2.14	0.47
31:BA:225:A:C2'	31:BA:226:G:H5'	2.45	0.47
31:BA:1141:U:C5	39:BN:64:GLY:CA	2.98	0.47
31:BA:1213:A:O2'	31:BA:1214:A:H5'	2.15	0.47
31:BA:1341:U:HO2'	31:BA:1397:U:HO2'	1.63	0.47
31:BA:1497:U:O2	31:BA:1497:U:C2'	2.63	0.47
31:BA:1803:A:O3'	33:BD:259:THR:HG22	2.14	0.47
31:BA:2061:G:N2	31:BA:2063:C:N1	2.63	0.47
31:BA:2469:A:O2'	42:BQ:56:ARG:HG2	2.15	0.47
31:BA:2636:U:H4'	34:BE:80:GLU:CD	2.35	0.47
31:BA:2657:A:C2	31:BA:2664:G:N2	2.80	0.47
31:BA:2663:G:N7	31:BA:2664:G:C5	2.82	0.47
32:BB:55:U:N3	32:BB:56:G:N7	2.63	0.47
33:BD:30:GLU:OE1	33:BD:83:GLU:OE1	2.33	0.47
33:BD:35:LYS:CE	33:BD:64:ILE:C	2.80	0.47
33:BD:94:LEU:HA	33:BD:104:TYR:HA	1.96	0.47
33:BD:172:TYR:CD1	33:BD:186:HIS:CA	2.98	0.47
34:BE:7:VAL:HG12	34:BE:51:PHE:HE1	1.79	0.47
34:BE:34:VAL:HG22	34:BE:48:GLN:NE2	2.24	0.47
34:BE:91:VAL:HG13	34:BE:95:ILE:HD11	1.97	0.47
34:BE:103:ASP:OD2	34:BE:168:MET:HE1	2.15	0.47
36:BG:5:VAL:HG21	36:BG:101:ILE:CG2	2.45	0.47
37:BH:45:VAL:HG12	37:BH:46:GLU:N	2.28	0.47
40:BO:103:ALA:O	40:BO:106:LEU:HB2	2.13	0.47
42:BQ:8:LYS:HG3	42:BQ:9:TYR:H	1.78	0.47
42:BQ:19:GLY:C	42:BQ:21:THR:N	2.67	0.47
43:BR:51:LEU:HD22	43:BR:70:LEU:HD21	1.96	0.47
43:BR:76:VAL:HG13	43:BR:80:PHE:CD2	2.50	0.47
46:BU:61:TRP:CE2	46:BU:94:ASN:HA	2.49	0.47
49:BX:78:LYS:O	49:BX:78:LYS:HE2	2.14	0.47
51:BZ:120:ILE:H	51:BZ:172:ALA:HA	1.80	0.47
1:CA:25:C:H2'	1:CA:26:A:C8	2.50	0.47
1:CA:303:A:H1'	1:CA:555:C:O2'	2.14	0.47

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:406:G:C2	1:CA:407:G:C8	3.03	0.47
1:CA:766:A:O2'	1:CA:767:A:H5'	2.15	0.47
1:CA:883:C:H2'	1:CA:884:U:H5'	1.97	0.47
1:CA:965:A:C2	1:CA:969:A:C2	3.03	0.47
1:CA:973:G:C1'	10:CJ:55:LYS:HG2	2.44	0.47
1:CA:991:U:O2'	1:CA:992:U:OP2	2.29	0.47
1:CA:1152:A:O2'	1:CA:1153:C:H5'	2.15	0.47
1:CA:1228:C:H5''	13:CM:108:ARG:NH2	2.30	0.47
2:CB:8:LYS:O	2:CB:12:GLU:CD	2.54	0.47
2:CB:42:ILE:C	2:CB:42:ILE:HD13	2.36	0.47
4:CD:91:SER:HA	4:CD:94:LEU:HD12	1.96	0.47
4:CD:100:ARG:O	4:CD:103:ASN:N	2.40	0.47
5:CE:127:ASN:O	5:CE:128:PRO:C	2.53	0.47
5:CE:139:LEU:C	5:CE:141:GLN:N	2.69	0.47
9:CI:118:LYS:HB3	9:CI:118:LYS:HZ3	1.77	0.47
11:CK:111:ASP:HA	18:CR:84:LYS:CE	2.41	0.47
12:CL:114:LYS:O	12:CL:117:ARG:HD3	2.15	0.47
15:CO:9:GLN:HA	15:CO:12:ILE:HD12	1.97	0.47
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CZ	2.50	0.47
19:CS:36:ARG:HH12	19:CS:75:ALA:HB3	1.79	0.47
22:D0:57:PHE:HE2	31:DA:2386:C:O4'	1.97	0.47
30:D8:29:LYS:NZ	30:D8:44:LYS:HB3	2.29	0.47
31:DA:271(D):G:H8	31:DA:271(D):G:O5'	1.98	0.47
31:DA:356:G:C2	31:DA:357:A:C4	3.03	0.47
31:DA:553:G:C5	31:DA:554:U:C5	3.03	0.47
31:DA:577:G:H8	31:DA:577:G:O5'	1.98	0.47
31:DA:697:C:C2	31:DA:698:C:C5	3.03	0.47
31:DA:869:G:N2	31:DA:870:A:H1'	2.30	0.47
31:DA:873:G:H1	31:DA:904:C:H42	1.63	0.47
31:DA:1303:G:H1'	31:DA:1641:A:C2	2.50	0.47
31:DA:1493:C:O2	31:DA:1493:C:C2'	2.63	0.47
31:DA:1999:C:H5''	31:DA:2723:C:O2'	2.15	0.47
31:DA:2290:G:H2'	31:DA:2291:U:O4'	2.15	0.47
31:DA:2297:C:N3	31:DA:2320:A:H8	2.13	0.47
31:DA:2360:A:O2'	31:DA:2361:A:O5'	2.33	0.47
31:DA:2802:G:O2'	31:DA:2803:C:H5'	2.15	0.47
31:DA:2811:G:OP1	34:DE:60:ASN:CB	2.63	0.47
32:DB:117:G:H4'	44:DS:55:ALA:HB1	1.97	0.47
33:DD:30:GLU:HG3	33:DD:63:ARG:NH2	2.30	0.47
34:DE:92:THR:N	34:DE:95:ILE:HD11	2.30	0.47
35:DF:31:HIS:HB2	41:DP:13:ASN:HD22	1.80	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:26:GLY:HA2	41:DP:30:THR:HG21	1.97	0.47
41:DP:47:ASP:OD1	41:DP:49:ARG:HB2	2.14	0.47
41:DP:91:PHE:HZ	41:DP:95:VAL:HB	1.80	0.47
42:DQ:24:GLY:N	51:DZ:78:LYS:HD2	2.29	0.47
42:DQ:26:TYR:O	42:DQ:67:ARG:NH1	2.38	0.47
43:DR:10:LEU:HD22	43:DR:21:TYR:OH	2.15	0.47
43:DR:59:ASP:O	43:DR:62:ALA:HB3	2.15	0.47
44:DS:57:LYS:HG2	44:DS:58:LEU:H	1.80	0.47
44:DS:95:HIS:C	44:DS:97:ARG:N	2.67	0.47
44:DS:95:HIS:O	44:DS:97:ARG:O	2.33	0.47
46:DU:14:HIS:O	46:DU:15:LYS:C	2.54	0.47
47:DV:36:PRO:HD3	47:DV:60:GLU:O	2.14	0.47
47:DV:66:ARG:HE	47:DV:94:LEU:HD11	1.80	0.47
49:DX:82:GLN:HB3	49:DX:85:PRO:HG2	1.96	0.47
1:AA:130:A:H1'	1:AA:263:A:O2'	2.14	0.46
1:AA:278:G:C1'	1:AA:282:A:H1'	2.45	0.46
1:AA:627:G:C4	1:AA:628:G:N7	2.83	0.46
1:AA:1057:G:C2	1:AA:1058:G:H1'	2.50	0.46
1:AA:1226:C:O2'	13:AM:111:LYS:NZ	2.49	0.46
1:AA:1306:A:H1'	1:AA:1332:A:C2	2.49	0.46
1:AA:1422:G:O2'	40:BO:49:ARG:NH1	2.48	0.46
2:AB:200:ILE:C	2:AB:201:ILE:HD13	2.36	0.46
2:AB:211:ILE:O	2:AB:215:LEU:HB2	2.15	0.46
3:AC:135:LYS:HZ1	5:AE:53:LEU:HD11	1.80	0.46
4:AD:27:TYR:O	4:AD:28:SER:O	2.34	0.46
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.45	0.46
12:AL:117:ARG:HB2	12:AL:117:ARG:CZ	2.45	0.46
16:AP:23:ASP:O	16:AP:25:ARG:N	2.48	0.46
18:AR:65:ILE:C	18:AR:65:ILE:HD12	2.35	0.46
24:B2:47:ASN:HD22	24:B2:48:HIS:H	1.61	0.46
25:B3:17:LYS:HG2	31:BA:969:U:OP1	2.14	0.46
29:B7:18:PHE:C	29:B7:18:PHE:CD2	2.88	0.46
31:BA:267:C:O2'	31:BA:268:C:H5'	2.15	0.46
31:BA:358:U:H3'	31:BA:358:U:H6	1.80	0.46
31:BA:1188:U:C3'	31:BA:1189:A:H5'	2.43	0.46
31:BA:1280:G:C6	31:BA:1281:G:N7	2.83	0.46
31:BA:1297:C:H2'	31:BA:1298:C:H6	1.79	0.46
31:BA:1499:C:C2'	31:BA:1500:G:C5'	2.91	0.46
31:BA:1641:A:H2'	31:BA:1642:G:O4'	2.14	0.46
31:BA:1772:G:H2'	31:BA:1773:A:O3'	2.15	0.46
31:BA:2802:G:O2'	31:BA:2803:C:H5'	2.15	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:117:G:H4'	44:BS:55:ALA:HB1	1.97	0.46
33:BD:48:ARG:NH1	33:BD:48:ARG:HG3	2.28	0.46
38:BI:92:VAL:HG23	38:BI:96:ASP:CB	2.45	0.46
40:BO:35:VAL:HG11	40:BO:103:ALA:HB3	1.97	0.46
41:BP:84:ASN:HA	41:BP:115:LEU:HD12	1.97	0.46
43:BR:55:ALA:HA	43:BR:80:PHE:CE1	2.50	0.46
47:BV:18:LEU:O	47:BV:19:LYS:CB	2.62	0.46
48:BW:74:ALA:O	48:BW:75:TYR:HB3	2.15	0.46
50:BY:79:CYS:O	50:BY:80:GLY:O	2.32	0.46
1:CA:22:G:H4'	1:CA:885:G:C8	2.50	0.46
1:CA:269:C:H2'	1:CA:270:A:H8	1.80	0.46
1:CA:316:G:N2	1:CA:338:A:C4	2.83	0.46
1:CA:533:A:C1'	1:CA:534:U:OP1	2.62	0.46
1:CA:585:G:N3	1:CA:879:C:H4'	2.30	0.46
1:CA:654:G:C2'	1:CA:655:A:H5'	2.45	0.46
1:CA:799:G:C2'	1:CA:800:G:H5'	2.46	0.46
1:CA:1125:U:O3'	1:CA:1126:U:C6	2.68	0.46
1:CA:1285:A:H4'	1:CA:1286:A:O5'	2.14	0.46
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.30	0.46
3:CC:27:LYS:NZ	3:CC:27:LYS:HA	2.29	0.46
3:CC:184:TYR:CG	3:CC:185:GLY:N	2.83	0.46
4:CD:10:ARG:C	4:CD:11:LEU:HD23	2.36	0.46
4:CD:100:ARG:NH1	4:CD:137:SER:HA	2.29	0.46
10:CJ:7:LYS:HB2	10:CJ:97:GLU:CB	2.41	0.46
16:CP:8:ARG:C	16:CP:9:PHE:CD2	2.89	0.46
16:CP:38:TYR:O	16:CP:39:TYR:CB	2.63	0.46
20:CT:49:ALA:O	20:CT:50:GLU:C	2.54	0.46
23:D1:46:LEU:HD12	23:D1:46:LEU:H	1.80	0.46
31:DA:13:A:C2	31:DA:14:A:N6	2.83	0.46
31:DA:197:A:H61	31:DA:2431:U:H5'	1.80	0.46
31:DA:225:A:C2'	31:DA:226:G:H5'	2.45	0.46
31:DA:327:G:C2	31:DA:336:C:C2	3.03	0.46
31:DA:387:U:C4'	31:DA:388:G:O5'	2.61	0.46
31:DA:452:G:C2	31:DA:458:G:C5	3.03	0.46
31:DA:953:A:C2'	31:DA:954:G:H5'	2.46	0.46
31:DA:1018:C:C2'	31:DA:1019:U:H5'	2.45	0.46
31:DA:1354:A:C8	31:DA:1355:G:C8	3.03	0.46
31:DA:1632:A:C5	31:DA:1633:G:C6	3.02	0.46
31:DA:1827:C:OP2	33:DD:222:ARG:HD2	2.14	0.46
31:DA:2030:A:H4'	31:DA:2031:A:OP1	2.14	0.46
31:DA:2287:A:C4	31:DA:2289:G:N7	2.83	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2367:G:H8	31:DA:2367:G:O5'	1.98	0.46
33:DD:239:ARG:O	33:DD:240:ALA:HB2	2.15	0.46
34:DE:116:VAL:O	34:DE:117:MET:CB	2.63	0.46
34:DE:160:TYR:CD2	34:DE:161:GLY:N	2.84	0.46
35:DF:36:VAL:HG11	35:DF:183:VAL:HG13	1.97	0.46
36:DG:39:ILE:HA	36:DG:157:ILE:HA	1.97	0.46
37:DH:23:ARG:HD3	37:DH:34:GLU:OE1	2.15	0.46
42:DQ:29:PHE:CD1	42:DQ:29:PHE:N	2.83	0.46
43:DR:21:TYR:OH	43:DR:43:GLU:HG2	2.15	0.46
43:DR:34:ILE:HG23	43:DR:35:THR:N	2.30	0.46
43:DR:54:LEU:HD12	43:DR:54:LEU:HA	1.47	0.46
45:DT:54:ARG:HA	45:DT:59:THR:HB	1.97	0.46
50:DY:46:LYS:HB3	50:DY:47:LYS:HE2	1.98	0.46
1:AA:236:G:C5	1:AA:237:C:C5	3.04	0.46
1:AA:266:G:H5''	1:AA:268:C:C5	2.50	0.46
1:AA:343:U:C2'	1:AA:346:G:O6	2.64	0.46
1:AA:406:G:C2	1:AA:407:G:C8	3.03	0.46
1:AA:529:G:O6	12:AL:49:ASN:ND2	2.48	0.46
1:AA:666:G:C6	1:AA:741:G:C6	3.03	0.46
1:AA:758:G:H2'	1:AA:759:A:OP2	2.14	0.46
1:AA:792:A:N3	1:AA:794:A:C5	2.83	0.46
1:AA:817:C:O2'	1:AA:1527:C:H4'	2.15	0.46
1:AA:1107:C:C4	1:AA:1108:G:C8	3.04	0.46
1:AA:1205:U:H2'	1:AA:1206:G:C8	2.50	0.46
1:AA:1423:G:OP1	40:BO:48:PRO:HB3	2.14	0.46
2:AB:22:LYS:H	2:AB:40:HIS:CE1	2.33	0.46
2:AB:97:TRP:HH2	2:AB:176:GLU:CG	2.29	0.46
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.64	0.46
4:AD:76:ARG:HD2	4:AD:207:TYR:CE1	2.50	0.46
23:B1:11:ARG:CB	23:B1:12:PRO:CD	2.93	0.46
23:B1:37:ILE:CG2	31:BA:2080:G:O5'	2.64	0.46
28:B6:17:LYS:O	28:B6:18:ARG:HD3	2.14	0.46
28:B6:40:CYS:SG	28:B6:45:LYS:HD2	2.55	0.46
31:BA:412:A:H8	31:BA:412:A:OP2	1.98	0.46
31:BA:414:C:H4'	31:BA:1879:C:O2	2.14	0.46
31:BA:466:A:C2'	31:BA:467:G:H5'	2.44	0.46
31:BA:513:A:C2	31:BA:514:A:C5	3.03	0.46
31:BA:970:C:H2'	31:BA:971:C:C6	2.50	0.46
31:BA:1200:C:O2'	31:BA:1201:C:H5'	2.16	0.46
31:BA:1245:G:O3'	41:BP:16:ARG:NH2	2.47	0.46
31:BA:1278:A:O3'	43:BR:34:ILE:HG13	2.15	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1286:A:C2	31:BA:1289:C:C6	3.03	0.46
31:BA:1299:G:H8	31:BA:1299:G:O5'	1.98	0.46
31:BA:1389:G:C2	31:BA:1390:U:C2	3.03	0.46
31:BA:1568:G:N3	33:BD:58:HIS:CE1	2.83	0.46
31:BA:1909:C:H5'	31:BA:1910:G:OP2	2.16	0.46
31:BA:1929:G:H5''	31:BA:1929:G:N3	2.30	0.46
31:BA:2099:U:O2	31:BA:2099:U:C2'	2.61	0.46
31:BA:2563:U:O2	31:BA:2565:A:H8	1.98	0.46
31:BA:2625:G:H2'	31:BA:2626:C:C6	2.50	0.46
32:BB:73:A:H5'	32:BB:74:U:OP2	2.15	0.46
35:BF:118:ALA:O	35:BF:120:GLU:N	2.47	0.46
36:BG:27:ASN:O	36:BG:30:GLU:HB3	2.15	0.46
39:BN:20:GLY:O	39:BN:61:ARG:CG	2.61	0.46
43:BR:54:LEU:HA	43:BR:54:LEU:HD12	1.37	0.46
46:BU:24:TYR:CD1	46:BU:38:THR:HG21	2.49	0.46
46:BU:27:LEU:N	46:BU:27:LEU:HD22	2.30	0.46
47:BV:19:LYS:HZ3	47:BV:20:LEU:C	2.19	0.46
47:BV:73:SER:HG	47:BV:74:LYS:H	1.56	0.46
51:BZ:3:TYR:CE2	51:BZ:51:ALA:HB2	2.51	0.46
51:BZ:152:ALA:CB	51:BZ:167:PRO:HB2	2.45	0.46
1:CA:73:G:N1	1:CA:97:G:C6	2.83	0.46
1:CA:264:U:H2'	1:CA:265:G:O4'	2.15	0.46
1:CA:343:U:O2	1:CA:347:G:C2	2.68	0.46
1:CA:490:G:O2'	1:CA:491:G:H5'	2.15	0.46
1:CA:533:A:H1'	1:CA:534:U:OP1	2.15	0.46
1:CA:539:A:C6	1:CA:540:G:C6	3.04	0.46
1:CA:677:U:H3	1:CA:713:G:N2	2.05	0.46
1:CA:735:C:C2'	1:CA:736:C:H5'	2.46	0.46
1:CA:914:A:H2'	1:CA:915:A:C8	2.51	0.46
1:CA:1107:C:C4	1:CA:1108:G:C8	3.03	0.46
1:CA:1207:G:H2'	1:CA:1208:C:C6	2.49	0.46
1:CA:1519:A:N7	1:CA:1520:G:H1'	2.30	0.46
3:CC:134:ILE:HD11	3:CC:153:VAL:HG21	1.95	0.46
5:CE:128:PRO:O	5:CE:129:ILE:C	2.54	0.46
7:CG:72:ARG:HG3	7:CG:73:MET:HG3	1.97	0.46
8:CH:33:GLU:O	8:CH:34:GLU:C	2.53	0.46
8:CH:86:ILE:HG21	8:CH:133:LEU:CD1	2.45	0.46
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.30	0.46
11:CK:24:SER:OG	11:CK:25:TYR:N	2.44	0.46
13:CM:68:GLY:CA	13:CM:71:ARG:HB3	2.45	0.46
20:CT:58:LYS:O	20:CT:58:LYS:HG3	2.14	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:7:PRO:HA	31:DA:2615:U:C2	2.50	0.46
31:DA:10:G:N1	31:DA:2629:A:C8	2.83	0.46
31:DA:250:G:C5	31:DA:251:A:C5	3.03	0.46
31:DA:350:U:H2'	31:DA:351:G:O4'	2.15	0.46
31:DA:363(E):U:OP2	31:DA:363(E):U:C6	2.68	0.46
31:DA:646:A:N3	31:DA:646:A:H5'	2.30	0.46
31:DA:960:A:H5''	31:DA:961:C:OP2	2.15	0.46
31:DA:1173:G:H3'	31:DA:1174:A:H5'	1.97	0.46
31:DA:1190:G:H8	31:DA:1190:G:H5''	1.80	0.46
31:DA:1215:G:H2'	31:DA:1216:G:H5'	1.95	0.46
31:DA:1313:U:H3'	31:DA:1314:C:H5'	1.98	0.46
31:DA:1412:A:H2'	31:DA:1413:G:C8	2.50	0.46
31:DA:1495:A:H2'	31:DA:1496:A:C2	2.48	0.46
31:DA:1696:G:H2'	31:DA:1697:G:H5'	1.97	0.46
31:DA:1862:G:O2'	31:DA:1863:G:H5'	2.15	0.46
31:DA:2199:A:OP2	31:DA:2200:C:N4	2.44	0.46
31:DA:2443:C:H2'	31:DA:2444:G:H8	1.80	0.46
31:DA:2468:G:C5'	42:DQ:120:ILE:HD12	2.36	0.46
31:DA:2489:G:C6	31:DA:2490:G:N1	2.83	0.46
31:DA:2692:C:H1'	31:DA:2847:U:O2'	2.15	0.46
31:DA:2818:G:C2'	31:DA:2819:G:H5'	2.45	0.46
55:DA:3320:TEL:O48	55:DA:3320:TEL:H573	2.13	0.46
33:DD:61:LEU:O	33:DD:63:ARG:NH1	2.47	0.46
33:DD:83:GLU:OE1	33:DD:104:TYR:CE2	2.68	0.46
33:DD:220:HIS:HD2	33:DD:221:VAL:N	2.13	0.46
33:DD:235:GLY:C	33:DD:237:GLU:HG2	2.36	0.46
34:DE:96:PHE:O	34:DE:175:VAL:HG11	2.14	0.46
39:DN:78:TYR:CD1	39:DN:79:PRO:CB	2.98	0.46
40:DO:105:GLU:HA	40:DO:108:GLU:HG3	1.96	0.46
41:DP:26:GLY:HA2	41:DP:30:THR:CG2	2.44	0.46
41:DP:110:TYR:CE2	41:DP:111:ARG:HD3	2.49	0.46
41:DP:122:PRO:HB3	41:DP:141:ALA:O	2.15	0.46
42:DQ:141:GLN:CD	51:DZ:70:LEU:HB2	2.35	0.46
50:DY:76:CYS:O	50:DY:78:ALA:N	2.48	0.46
51:DZ:33:LEU:HD11	51:DZ:35:ARG:HG3	1.97	0.46
51:DZ:36:LYS:H	51:DZ:36:LYS:HG3	1.53	0.46
51:DZ:130:PRO:O	51:DZ:133:ILE:HG13	2.14	0.46
1:AA:450:G:H5''	16:AP:41:PRO:O	2.16	0.46
1:AA:450:G:C8	1:AA:481:G:C6	3.02	0.46
1:AA:498:U:C2	1:AA:499:A:C8	3.03	0.46
1:AA:801:U:H2'	1:AA:802:A:C8	2.48	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:805:C:C2'	1:AA:806:C:H5'	2.45	0.46
1:AA:991:U:O2'	1:AA:992:U:P	2.74	0.46
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.80	0.46
2:AB:32:ILE:HG13	2:AB:34:ALA:N	2.31	0.46
2:AB:97:TRP:HH2	2:AB:176:GLU:HG3	1.79	0.46
2:AB:213:LEU:HD22	2:AB:214:ILE:HD13	1.96	0.46
5:AE:113:ALA:HB3	5:AE:115:VAL:HG23	1.97	0.46
6:AF:45:LEU:HD11	6:AF:57:GLN:OE1	2.16	0.46
6:AF:75:LEU:O	6:AF:79:LEU:HG	2.14	0.46
11:AK:52:GLY:H	11:AK:55:LYS:HE2	1.81	0.46
15:AO:18:PHE:CZ	15:AO:21:ASP:HB2	2.50	0.46
17:AQ:11:VAL:HG23	17:AQ:20:THR:HG22	1.97	0.46
17:AQ:18:THR:HG23	17:AQ:44:ALA:O	2.15	0.46
18:AR:67:ALA:O	18:AR:70:ILE:HB	2.15	0.46
23:B1:32:LYS:HG2	31:BA:2396:G:O2'	2.15	0.46
24:B2:21:LEU:O	24:B2:25:VAL:HG12	2.16	0.46
30:B8:26:LYS:CB	30:B8:44:LYS:HG3	2.45	0.46
31:BA:7:G:H1	31:BA:2896:C:H42	1.63	0.46
31:BA:300:A:OP1	50:BY:84:ARG:NH2	2.48	0.46
31:BA:504:U:H3'	31:BA:504:U:H6	1.80	0.46
31:BA:530:G:N1	31:BA:2022:U:OP1	2.48	0.46
31:BA:547:A:H2'	31:BA:547:A:N3	2.31	0.46
31:BA:602:G:O2'	31:BA:604:G:H4'	2.16	0.46
31:BA:620:G:H8	31:BA:622:G:O6	1.99	0.46
31:BA:811:U:O2'	31:BA:1250:G:H2'	2.15	0.46
31:BA:1385:G:H4'	31:BA:1386:C:OP1	2.15	0.46
31:BA:1527:G:C5'	31:BA:1528:A:OP1	2.63	0.46
31:BA:1771:C:O2'	31:BA:1786:A:H8	1.89	0.46
31:BA:2192:G:H2'	31:BA:2193:G:H5'	1.97	0.46
31:BA:2247:A:H2'	31:BA:2248:C:C6	2.48	0.46
31:BA:2248:C:H3'	31:BA:2249:U:H6	1.81	0.46
31:BA:2315:G:H3'	31:BA:2316:C:C6	2.50	0.46
31:BA:2762:G:C6	31:BA:2763:G:C4	3.04	0.46
33:BD:83:GLU:OE1	33:BD:104:TYR:CE2	2.69	0.46
36:BG:96:ARG:O	36:BG:98:ARG:N	2.48	0.46
41:BP:38:GLN:CG	41:BP:39:LYS:H	2.06	0.46
41:BP:123:LEU:O	41:BP:124:LYS:C	2.53	0.46
43:BR:10:LEU:HD22	43:BR:17:ARG:HD2	1.98	0.46
49:BX:26:TYR:OH	49:BX:89:ILE:HB	2.15	0.46
50:BY:15:VAL:HG12	50:BY:16:ALA:H	1.78	0.46
50:BY:81:LYS:CB	50:BY:96:ILE:HG22	2.45	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:25:C:H5'	1:CA:524:G:H1'	1.98	0.46
1:CA:126:G:C6	1:CA:127:G:N7	2.84	0.46
1:CA:237:C:O2'	1:CA:238:G:H5'	2.15	0.46
1:CA:240:C:H2'	1:CA:241:C:C6	2.49	0.46
1:CA:255:G:C6	1:CA:256:U:C4	3.03	0.46
1:CA:266:G:H5''	1:CA:268:C:C5	2.50	0.46
1:CA:358:U:O2'	1:CA:359:U:H5'	2.15	0.46
1:CA:445:G:C2	1:CA:446:G:C4	3.03	0.46
1:CA:543:C:N3	1:CA:544:G:C8	2.83	0.46
1:CA:552:U:H2'	1:CA:553:A:H5'	1.97	0.46
1:CA:627:G:C4	1:CA:628:G:N7	2.83	0.46
1:CA:766:A:H2'	1:CA:767:A:H5'	1.96	0.46
1:CA:831:U:O2'	1:CA:832:C:H5'	2.15	0.46
1:CA:914:A:C4	1:CA:915:A:C8	3.04	0.46
1:CA:922:G:H8	5:CE:18:ARG:HB2	1.71	0.46
1:CA:1252:A:H2'	1:CA:1253:G:O4'	2.15	0.46
3:CC:186:PHE:CD1	3:CC:198:VAL:O	2.64	0.46
6:CF:11:ASN:HB3	6:CF:14:LEU:HG	1.97	0.46
6:CF:50:TYR:CE2	6:CF:52:ILE:CD1	2.97	0.46
8:CH:41:ARG:O	8:CH:41:ARG:HG2	2.16	0.46
11:CK:31:THR:O	11:CK:31:THR:HG23	2.14	0.46
15:CO:54:ARG:O	15:CO:57:LEU:HB2	2.14	0.46
17:CQ:29:HIS:N	17:CQ:33:GLY:O	2.42	0.46
30:D8:29:LYS:NZ	30:D8:44:LYS:CB	2.78	0.46
31:DA:142:A:C8	31:DA:1595:G:N2	2.67	0.46
31:DA:250:G:H2'	31:DA:251:A:C8	2.50	0.46
31:DA:304:G:C2'	31:DA:305:U:H5'	2.45	0.46
31:DA:349:G:O2'	31:DA:350:U:H5'	2.16	0.46
31:DA:371:A:O3'	31:DA:372:G:H4'	2.15	0.46
31:DA:557:U:H2'	31:DA:558:G:O5'	2.15	0.46
31:DA:557:U:C2'	31:DA:558:G:O5'	2.63	0.46
31:DA:740:U:H2'	31:DA:741:G:H8	1.80	0.46
31:DA:828:U:C5	31:DA:829:A:N6	2.84	0.46
31:DA:1450(A):C:C4	31:DA:1451:C:N4	2.81	0.46
31:DA:1826:G:H2'	31:DA:1827:C:H6	1.80	0.46
31:DA:2052:G:N3	31:DA:2053:G:C8	2.83	0.46
31:DA:2248:C:H3'	31:DA:2249:U:C6	2.50	0.46
31:DA:2318:G:HO2'	31:DA:2319:G:P	2.38	0.46
31:DA:2469:A:N7	31:DA:2482:G:C8	2.83	0.46
31:DA:2470:G:C2	31:DA:2471:C:H6	2.33	0.46
33:DD:6:PHE:N	33:DD:6:PHE:CD1	2.83	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:24:ILE:HD11	33:DD:84:TYR:H	1.80	0.46
33:DD:32:SER:HA	33:DD:35:LYS:O	2.15	0.46
33:DD:145:VAL:HG11	33:DD:175:LEU:HD11	1.97	0.46
39:DN:43:THR:O	39:DN:46:VAL:HG12	2.14	0.46
40:DO:104:ARG:HB2	40:DO:104:ARG:NH1	2.31	0.46
45:DT:26:ASP:HA	45:DT:48:ILE:HA	1.96	0.46
47:DV:55:ALA:C	47:DV:57:VAL:H	2.19	0.46
49:DX:60:ARG:CD	49:DX:74:PRO:HD2	2.45	0.46
50:DY:15:VAL:HG12	50:DY:16:ALA:H	1.80	0.46
50:DY:45:VAL:HG13	50:DY:62:GLU:HG2	1.96	0.46
1:AA:32:A:C2	1:AA:33:A:C4	3.04	0.46
1:AA:257:G:H1	1:AA:269:C:H42	1.62	0.46
1:AA:299:G:C5	1:AA:300:A:N6	2.83	0.46
1:AA:441:A:H5'	1:AA:442:C:OP2	2.16	0.46
1:AA:592:G:H1	1:AA:647:C:N4	2.12	0.46
1:AA:724:G:C4	1:AA:725:G:C8	3.04	0.46
1:AA:1235:U:H2'	1:AA:1236:A:O4'	2.15	0.46
1:AA:1314:C:H5	19:AS:6:LYS:HZ3	1.62	0.46
2:AB:198:ASP:N	2:AB:198:ASP:OD2	2.47	0.46
2:AB:214:ILE:O	2:AB:218:ALA:HB2	2.16	0.46
4:AD:38:TYR:O	4:AD:38:TYR:HD1	1.98	0.46
9:AI:112:LYS:HA	9:AI:119:ALA:CA	2.46	0.46
10:AJ:81:THR:HA	10:AJ:84:GLN:HB2	1.97	0.46
11:AK:73:MET:HG2	11:AK:103:LEU:HD21	1.96	0.46
17:AQ:4:LYS:HB3	17:AQ:61:GLU:OE2	2.14	0.46
22:B0:47:PRO:HB2	22:B0:51:VAL:O	2.16	0.46
22:B0:74:ARG:NH2	32:BB:13:A:OP2	2.47	0.46
25:B3:50:VAL:O	25:B3:51:ALA:C	2.53	0.46
30:B8:54:GLU:O	30:B8:58:ILE:HG12	2.16	0.46
31:BA:57:C:C2'	31:BA:58:G:O5'	2.64	0.46
31:BA:194:G:C6	31:BA:195:A:C5	3.03	0.46
31:BA:271(L):U:H5''	31:BA:271(M):G:C4	2.51	0.46
31:BA:271(N):U:H6	31:BA:271(N):U:OP1	1.99	0.46
31:BA:272(E):G:C5	31:BA:272(F):C:C5	3.03	0.46
31:BA:286:C:C3'	31:BA:287:C:H5'	2.45	0.46
31:BA:363(E):U:C3'	31:BA:363(F):A:O4'	2.62	0.46
31:BA:405:U:H4'	31:BA:406:G:OP2	2.15	0.46
31:BA:459:U:H2'	31:BA:460:A:C8	2.50	0.46
31:BA:466:A:C3'	31:BA:467:G:H5'	2.45	0.46
31:BA:588:U:H2'	31:BA:589:C:H6	1.77	0.46
31:BA:614:U:O2	31:BA:614:U:O4'	2.30	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:746:A:H2'	31:BA:2612:C:H5''	1.97	0.46
31:BA:772:C:C2'	31:BA:773:U:H5'	2.45	0.46
31:BA:856:C:O2'	31:BA:857:C:P	2.73	0.46
31:BA:1751:C:HO2'	31:BA:1752:C:H5'	1.79	0.46
31:BA:1782:C:C4	31:BA:2587:A:C2	3.04	0.46
31:BA:2019:A:C6	31:BA:2020:A:N7	2.84	0.46
31:BA:2329:G:H2'	31:BA:2330:G:C8	2.51	0.46
31:BA:2550:G:C6	31:BA:2551:C:C4	3.03	0.46
31:BA:2610:C:H4'	31:BA:2611:U:OP2	2.15	0.46
32:BB:118:G:N2	32:BB:119:G:N7	2.63	0.46
33:BD:8:PRO:HB3	33:BD:14:ARG:CB	2.43	0.46
34:BE:29:GLY:N	34:BE:51:PHE:HE2	2.14	0.46
34:BE:69:LYS:C	34:BE:71:GLY:N	2.69	0.46
34:BE:160:TYR:CD2	34:BE:161:GLY:N	2.84	0.46
36:BG:94:LEU:HD12	36:BG:98:ARG:C	2.36	0.46
36:BG:96:ARG:CD	36:BG:97:ASP:H	2.27	0.46
37:BH:23:ARG:HD3	37:BH:34:GLU:OE1	2.16	0.46
40:BO:23:ARG:CG	40:BO:23:ARG:NH1	2.69	0.46
41:BP:121:LYS:O	41:BP:123:LEU:HG	2.15	0.46
42:BQ:46:GLN:O	42:BQ:47:ILE:C	2.54	0.46
43:BR:28:LEU:CD1	43:BR:48:VAL:HG21	2.41	0.46
44:BS:97:ARG:O	44:BS:97:ARG:NE	2.39	0.46
47:BV:51:VAL:CG1	47:BV:52:VAL:N	2.79	0.46
50:BY:45:VAL:HG13	50:BY:62:GLU:CD	2.36	0.46
51:BZ:125:LEU:HD23	51:BZ:125:LEU:C	2.35	0.46
1:CA:191:G:N9	20:CT:105:SER:HB3	2.29	0.46
1:CA:373:A:N3	1:CA:374:A:C8	2.83	0.46
1:CA:540:G:H2'	1:CA:541:G:O4'	2.14	0.46
1:CA:546:G:P	4:CD:72:GLU:HB3	2.56	0.46
1:CA:560:U:H5'	1:CA:566:G:H22	1.79	0.46
1:CA:724:G:C4	1:CA:725:G:C8	3.03	0.46
1:CA:748:C:O2	1:CA:749:C:H5	1.98	0.46
1:CA:790:A:N6	1:CA:791:G:C6	2.83	0.46
1:CA:790:A:N1	1:CA:1497:G:H5''	2.31	0.46
1:CA:819:A:C4'	1:CA:820:U:OP2	2.61	0.46
1:CA:950:U:H2'	1:CA:951:G:C8	2.50	0.46
1:CA:1060:C:O2'	1:CA:1061:G:H5'	2.15	0.46
2:CB:83:MET:SD	2:CB:234:PRO:HG2	2.55	0.46
2:CB:198:ASP:N	2:CB:198:ASP:OD2	2.49	0.46
3:CC:33:LEU:HD21	14:CN:39:LEU:HD11	1.97	0.46
3:CC:34:LEU:O	3:CC:34:LEU:HD23	2.16	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:27:TYR:O	4:CD:28:SER:O	2.33	0.46
4:CD:173:TRP:CD1	4:CD:173:TRP:O	2.69	0.46
6:CF:46:ARG:HB2	6:CF:60:PHE:CE1	2.50	0.46
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.46	0.46
12:CL:43:VAL:HG22	12:CL:55:VAL:CG2	2.40	0.46
22:D0:39:ARG:HH21	31:DA:2355:C:H1'	1.80	0.46
22:D0:74:ARG:NH2	32:DB:13:A:OP2	2.45	0.46
23:D1:85:LEU:HD23	23:D1:85:LEU:HA	1.59	0.46
24:D2:55:ARG:C	24:D2:56:GLN:HE21	2.19	0.46
31:DA:71:A:H4'	31:DA:72:U:H5''	1.98	0.46
31:DA:81:G:HO2'	31:DA:295:G:HO2'	1.62	0.46
31:DA:484:C:H2'	31:DA:485:C:H6	1.81	0.46
31:DA:530:G:N1	31:DA:2022:U:OP1	2.48	0.46
31:DA:824:A:H1'	31:DA:2358:G:N7	2.31	0.46
31:DA:972:G:C6	31:DA:973:A:C6	3.03	0.46
31:DA:1141:U:O5'	39:DN:63:THR:HG21	2.14	0.46
31:DA:1155:A:C4	31:DA:1157:G:C8	3.04	0.46
31:DA:1221:C:H2'	31:DA:1221(A):C:C6	2.51	0.46
31:DA:1281:G:H2'	31:DA:1282:U:O4'	2.16	0.46
31:DA:1419:A:C3'	31:DA:1420:U:H5''	2.45	0.46
31:DA:1499:C:C2'	31:DA:1500:G:C5'	2.90	0.46
31:DA:1665:A:H4'	40:DO:67:LYS:HB2	1.97	0.46
31:DA:1895:C:H2'	31:DA:1896:G:O4'	2.15	0.46
31:DA:2059:A:O2'	35:DF:69:HIS:CD2	2.61	0.46
31:DA:2290:G:C2	31:DA:2343:C:O2	2.68	0.46
31:DA:2297:C:C2'	31:DA:2298:A:H5'	2.45	0.46
31:DA:2343:C:H4'	31:DA:2373:G:O3'	2.16	0.46
31:DA:2417:C:O5'	31:DA:2417:C:H6	1.98	0.46
33:DD:8:PRO:HB3	33:DD:14:ARG:CB	2.43	0.46
33:DD:177:LEU:HD11	33:DD:183:ARG:HD2	1.96	0.46
36:DG:94:LEU:HD12	36:DG:98:ARG:C	2.36	0.46
37:DH:54:ARG:HB3	37:DH:65:HIS:HB2	1.97	0.46
39:DN:23:LEU:CD2	39:DN:62:VAL:HG23	2.46	0.46
40:DO:79:PHE:HE2	40:DO:101:PRO:HG2	1.81	0.46
41:DP:81:GLN:HG2	41:DP:106:LEU:HA	1.95	0.46
44:DS:93:LYS:O	44:DS:93:LYS:CG	2.59	0.46
48:DW:12:ILE:HG23	48:DW:17:VAL:CG2	2.46	0.46
49:DX:60:ARG:CG	49:DX:72:LYS:H	2.28	0.46
50:DY:97:ARG:HG3	50:DY:97:ARG:O	2.15	0.46
51:DZ:30:ASN:HB3	51:DZ:90:VAL:O	2.15	0.46
1:AA:67:C:H4'	1:AA:172:A:H1'	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:103:C:C2	1:AA:104:G:C8	3.03	0.46
1:AA:189(B):C:N4	1:AA:189(J):G:H1	2.14	0.46
1:AA:602:A:C2	1:AA:603:U:C2	3.04	0.46
1:AA:713:G:C6	1:AA:714:G:O6	2.69	0.46
1:AA:853:G:C4	1:AA:854:G:C8	3.04	0.46
1:AA:926:G:C6	1:AA:1505:G:C6	3.03	0.46
1:AA:1440:C:H2'	1:AA:1441:G:O4'	2.15	0.46
1:AA:1484:C:C2'	31:BA:1960:A:HO2'	2.27	0.46
1:AA:1495:U:C4	1:AA:1496:C:N4	2.84	0.46
2:AB:22:LYS:NZ	2:AB:24:TRP:HE1	2.14	0.46
2:AB:54:THR:HG23	2:AB:199:TYR:HB3	1.98	0.46
4:AD:148:VAL:HG12	4:AD:149:ALA:H	1.73	0.46
5:AE:126:ARG:CG	5:AE:126:ARG:NH1	2.71	0.46
6:AF:99:ALA:HB1	18:AR:23:LYS:HZ2	1.80	0.46
6:AF:99:ALA:HB1	18:AR:23:LYS:NZ	2.31	0.46
8:AH:4:ASP:OD2	8:AH:85:ARG:CZ	2.63	0.46
11:AK:111:ASP:HA	18:AR:84:LYS:CE	2.42	0.46
19:AS:22:LEU:O	19:AS:26:GLY:HA2	2.16	0.46
28:B6:20:ASN:CG	28:B6:21:TYR:N	2.69	0.46
31:BA:287:C:H2'	31:BA:288:C:O4'	2.15	0.46
31:BA:670:A:H4'	31:BA:671:C:OP1	2.12	0.46
31:BA:797:C:H2'	31:BA:798:G:C8	2.51	0.46
31:BA:904:C:O2'	31:BA:905:U:H5'	2.15	0.46
31:BA:1122:G:C2	31:BA:1123:C:C6	3.04	0.46
31:BA:1205:U:C3'	31:BA:1206:G:H5'	2.45	0.46
31:BA:1331:A:H2'	31:BA:1333:C:H5	1.81	0.46
31:BA:1623:G:C2	31:BA:1624:G:C8	3.03	0.46
31:BA:1632:A:C6	31:BA:1633:G:C6	3.04	0.46
31:BA:1834:U:O2	31:BA:1834:U:H2'	2.15	0.46
31:BA:2248:C:H3'	31:BA:2249:U:C6	2.51	0.46
31:BA:2524:G:H5'	31:BA:2524:G:C8	2.44	0.46
31:BA:2544:G:O2'	31:BA:2545:G:H5'	2.15	0.46
31:BA:2596:U:H2'	31:BA:2597:G:C5'	2.46	0.46
31:BA:2599:G:H8	33:BD:236:GLY:HA2	1.81	0.46
31:BA:2660:A:N3	31:BA:2660:A:C3'	2.77	0.46
31:BA:2841:C:H2'	31:BA:2842:G:C8	2.51	0.46
31:BA:2845:G:H2'	31:BA:2846:G:C8	2.50	0.46
55:BA:3362:TEL:H242	55:BA:3362:TEL:H30	1.80	0.46
33:BD:35:LYS:CG	33:BD:64:ILE:H	2.29	0.46
34:BE:36:ARG:NH2	34:BE:88:GLY:CA	2.75	0.46
35:BF:160:ASN:ND2	35:BF:163:VAL:H	2.14	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:205:ARG:C	35:BF:206:ILE:HG13	2.35	0.46
39:BN:30:ILE:HG21	39:BN:120:LEU:HD21	1.96	0.46
41:BP:8:PRO:C	41:BP:10:PRO:HD3	2.35	0.46
42:BQ:112:GLU:H	42:BQ:112:GLU:HG2	1.39	0.46
45:BT:107:ASP:H	45:BT:110:ILE:HG13	1.80	0.46
47:BV:38:LEU:HG	47:BV:39:LEU:N	2.30	0.46
50:BY:38:ILE:N	50:BY:66:PRO:O	2.49	0.46
1:CA:233:C:C6	1:CA:234:C:H5	2.33	0.46
1:CA:244:U:C6	1:CA:894:G:N2	2.84	0.46
1:CA:370:C:H2'	1:CA:371:G:C8	2.51	0.46
1:CA:396:G:C2'	1:CA:398:C:OP1	2.63	0.46
1:CA:448:A:N7	1:CA:486:U:O4	2.49	0.46
1:CA:626:U:C2	1:CA:627:G:C8	3.03	0.46
1:CA:728:A:H2'	1:CA:729:A:H8	1.80	0.46
1:CA:760:G:C2'	1:CA:761:G:H5'	2.46	0.46
1:CA:984:C:N3	1:CA:1222:G:C2	2.84	0.46
1:CA:1030(D):A:N7	1:CA:1031:G:N3	2.64	0.46
1:CA:1106:G:H5''	3:CC:172:ARG:HD2	1.98	0.46
1:CA:1255:G:H5'	1:CA:1256:A:OP1	2.16	0.46
1:CA:1306:A:H1'	1:CA:1332:A:C2	2.51	0.46
1:CA:1417:G:C6	1:CA:1482:G:C6	3.04	0.46
1:CA:1502:A:H4'	1:CA:1503:A:OP2	2.15	0.46
3:CC:122:GLU:O	3:CC:126:ARG:HG3	2.16	0.46
9:CI:26:VAL:HA	9:CI:61:ALA:O	2.16	0.46
12:CL:27:LEU:HB2	12:CL:33:ARG:HH11	1.81	0.46
14:CN:29:ARG:HD3	14:CN:40:CYS:SG	2.55	0.46
14:CN:44:LEU:HD12	14:CN:44:LEU:O	2.15	0.46
16:CP:27:LYS:HD2	16:CP:27:LYS:H	1.80	0.46
20:CT:37:SER:O	20:CT:40:ALA:HB3	2.15	0.46
20:CT:63:ILE:HD12	20:CT:81:LYS:HG3	1.98	0.46
25:D3:17:LYS:N	31:DA:969:U:OP1	2.49	0.46
28:D6:24:GLU:HB3	28:D6:25:LYS:H	1.45	0.46
31:DA:49:A:H4'	31:DA:50:U:C5'	2.23	0.46
31:DA:90:U:H1'	31:DA:92:A:H5''	1.98	0.46
31:DA:272(E):G:C5	31:DA:272(F):C:C5	3.04	0.46
31:DA:866:A:H2	31:DA:867:C:C4	2.33	0.46
31:DA:943:U:OP2	41:DP:38:GLN:OE1	2.33	0.46
31:DA:962:G:O2'	31:DA:963:U:H5'	2.16	0.46
31:DA:1223:G:C6	31:DA:1227:G:C6	3.04	0.46
31:DA:1466:G:H2'	31:DA:1466:G:N3	2.30	0.46
31:DA:1475:G:C2	31:DA:1517:G:N3	2.83	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1564:C:O2'	31:DA:1565:C:H5'	2.16	0.46
31:DA:1569:A:H2'	31:DA:1570:A:O4'	2.15	0.46
31:DA:1759:A:H4'	31:DA:2715:C:O4'	2.15	0.46
31:DA:1820:U:H5''	31:DA:1821:A:C8	2.50	0.46
31:DA:2093:G:O2'	38:DI:25:TYR:HD2	1.98	0.46
31:DA:2193:G:C6	31:DA:2194:G:C5	3.04	0.46
31:DA:2282:G:H5'	31:DA:2389:G:H1'	1.98	0.46
31:DA:2291:U:H2'	31:DA:2292:C:C6	2.51	0.46
33:DD:24:ILE:HD11	33:DD:83:GLU:HA	1.98	0.46
33:DD:164:GLN:O	33:DD:175:LEU:HA	2.16	0.46
33:DD:193:VAL:O	33:DD:193:VAL:HG12	2.15	0.46
35:DF:109:GLY:O	35:DF:110:LEU:C	2.54	0.46
35:DF:128:ALA:O	35:DF:129:PHE:CG	2.69	0.46
37:DH:85:LYS:HE2	37:DH:145:ALA:HB2	1.98	0.46
38:DI:25:TYR:CD1	38:DI:30:LEU:HD11	2.51	0.46
40:DO:90:GLN:O	40:DO:91:LEU:HB2	2.16	0.46
41:DP:80:TYR:CE1	41:DP:111:ARG:HB3	2.51	0.46
41:DP:101:VAL:O	41:DP:103:ALA:N	2.49	0.46
41:DP:111:ARG:HA	41:DP:128:HIS:CG	2.49	0.46
42:DQ:19:GLY:C	42:DQ:21:THR:N	2.66	0.46
45:DT:51:ARG:HD3	45:DT:62:THR:HG23	1.96	0.46
45:DT:92:GLY:C	45:DT:94:ALA:H	2.19	0.46
46:DU:114:LYS:O	46:DU:117:GLN:N	2.49	0.46
50:DY:2:ARG:N	50:DY:4:LYS:HG2	2.31	0.46
1:AA:119:A:C5	1:AA:240:C:C4	3.04	0.46
1:AA:262:A:N6	1:AA:263:A:N6	2.64	0.46
1:AA:575:G:HO2'	1:AA:821:G:H5'	1.81	0.46
1:AA:679:C:N3	1:AA:712:A:C2	2.84	0.46
1:AA:884:U:H4'	1:AA:885:G:H5''	1.98	0.46
1:AA:989:C:H1'	1:AA:1016:A:C2	2.50	0.46
1:AA:1130:A:N3	1:AA:1146:A:C2	2.84	0.46
1:AA:1189:C:OP1	10:AJ:51:ARG:NH2	2.48	0.46
1:AA:1191:A:P	3:AC:3:ASN:HD21	2.39	0.46
1:AA:1202:G:O2'	14:AN:27:CYS:HB2	2.15	0.46
1:AA:1305:G:C5'	21:AU:4:GLY:HA3	2.46	0.46
1:AA:1418:A:C2	31:BA:1948:G:N2	2.83	0.46
2:AB:193:ASP:O	2:AB:194:PRO:O	2.33	0.46
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.97	0.46
5:AE:71:LEU:O	5:AE:72:GLN:CB	2.64	0.46
8:AH:104:ARG:O	8:AH:105:ARG:HB2	2.15	0.46
9:AI:116:LYS:HD2	9:AI:120:ARG:HA	1.97	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:8:LEU:HB2	10:AJ:70:ARG:O	2.16	0.46
15:AO:43:LEU:O	15:AO:45:VAL:N	2.49	0.46
23:B1:28:GLY:C	23:B1:30:VAL:N	2.67	0.46
25:B3:10:LYS:NZ	25:B3:15:TYR:OH	2.40	0.46
27:B5:40:LYS:HE2	27:B5:46:CYS:CB	2.43	0.46
28:B6:46:HIS:HA	28:B6:47:THR:HA	1.97	0.46
29:B7:26:GLY:O	29:B7:30:VAL:HG23	2.16	0.46
31:BA:24:G:H2'	31:BA:25:U:O4'	2.16	0.46
31:BA:157:U:H5''	31:BA:171:G:N2	2.21	0.46
31:BA:461:C:O2'	31:BA:462:C:H5'	2.16	0.46
31:BA:814:C:N4	31:BA:1193:G:H1	2.14	0.46
31:BA:1528:A:H8	31:BA:1528(A):A:C8	2.33	0.46
31:BA:1600:C:O2'	31:BA:1601:G:H5'	2.16	0.46
31:BA:1649:G:C6	31:BA:2009:G:C6	3.04	0.46
31:BA:1839:G:C8	31:BA:1927:A:C1'	2.97	0.46
31:BA:1847:A:N3	31:BA:1847:A:H2'	2.30	0.46
31:BA:1882:C:C5'	31:BA:1883:G:OP2	2.58	0.46
31:BA:2494:G:C5	31:BA:2495:G:N7	2.84	0.46
31:BA:2845:G:HO2'	31:BA:2846:G:H5'	1.75	0.46
32:BB:19:G:C6	32:BB:20:C:C4	3.03	0.46
33:BD:221:VAL:HG22	33:BD:226:MET:CE	2.46	0.46
33:BD:266:SER:O	33:BD:267:SER:CB	2.63	0.46
36:BG:7:LEU:HB3	36:BG:100:TRP:CZ3	2.51	0.46
37:BH:86:GLU:HA	37:BH:132:ARG:HA	1.98	0.46
37:BH:98:LEU:HD13	37:BH:125:VAL:HG23	1.97	0.46
37:BH:135:GLY:C	37:BH:137:ASP:H	2.18	0.46
38:BI:121:LYS:O	38:BI:122:GLU:HB2	2.16	0.46
41:BP:64:LYS:O	41:BP:65:ARG:C	2.53	0.46
43:BR:95:THR:O	43:BR:95:THR:HG23	2.15	0.46
43:BR:96:ARG:HD2	43:BR:98:LEU:HD11	1.97	0.46
44:BS:19:LYS:O	44:BS:19:LYS:CG	2.63	0.46
45:BT:28:VAL:HG22	45:BT:46:GLU:HG3	1.98	0.46
45:BT:92:GLY:C	45:BT:94:ALA:N	2.69	0.46
47:BV:7:THR:N	47:BV:10:LYS:O	2.45	0.46
47:BV:73:SER:HG	47:BV:74:LYS:N	2.12	0.46
51:BZ:166:SER:CB	51:BZ:167:PRO:CA	2.93	0.46
1:CA:360:A:H2'	1:CA:361:G:O4'	2.16	0.46
1:CA:728:A:H2'	1:CA:729:A:C8	2.51	0.46
1:CA:1233:G:H2'	1:CA:1234:C:C6	2.50	0.46
1:CA:1387:G:C6	1:CA:1388:C:N4	2.84	0.46
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.49	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:116:VAL:CG2	3:CC:202:ILE:HD11	2.37	0.46
5:CE:112:LEU:HD23	5:CE:112:LEU:N	2.30	0.46
8:CH:10:LEU:HD13	8:CH:83:ILE:CG1	2.46	0.46
8:CH:86:ILE:O	8:CH:87:SER:C	2.53	0.46
9:CI:4:TYR:N	9:CI:4:TYR:CD1	2.84	0.46
10:CJ:49:VAL:HG22	14:CN:41:ARG:HB2	1.96	0.46
12:CL:114:LYS:HB3	12:CL:114:LYS:HE2	1.80	0.46
17:CQ:77:VAL:O	17:CQ:78:GLU:HB3	2.15	0.46
23:D1:11:ARG:HA	23:D1:11:ARG:HD2	1.74	0.46
27:D5:8:LYS:HE2	31:DA:2055:C:OP1	2.15	0.46
29:D7:5:TRP:CZ3	31:DA:464:U:H4'	2.51	0.46
30:D8:12:LYS:HG2	41:DP:68:GLN:NE2	2.30	0.46
31:DA:29:U:H2'	31:DA:30:G:C8	2.51	0.46
31:DA:49:A:H4'	31:DA:50:U:OP2	2.15	0.46
31:DA:73:A:C2'	31:DA:74:A:OP2	2.62	0.46
31:DA:128:C:O2'	31:DA:129:C:OP1	2.33	0.46
31:DA:130:C:H2'	31:DA:131:G:H5''	1.98	0.46
31:DA:302:C:O2'	31:DA:303:U:H5'	2.16	0.46
31:DA:400:G:H8	31:DA:400:G:O5'	1.99	0.46
31:DA:627:A:C6	31:DA:637:A:C8	3.03	0.46
31:DA:817:C:C4	31:DA:818:G:C5	3.03	0.46
31:DA:821:A:H2'	31:DA:946:G:H5''	1.96	0.46
31:DA:943:U:O2'	31:DA:944:G:H5'	2.15	0.46
31:DA:959:A:C6	31:DA:960:A:N1	2.84	0.46
31:DA:1012:U:OP1	46:DU:75:ASN:OD1	2.34	0.46
31:DA:1280:G:C6	31:DA:1281:G:C5	3.04	0.46
31:DA:1341:U:C2'	31:DA:1397:U:O2	2.63	0.46
31:DA:1459:G:N3	31:DA:1459:G:O5'	2.49	0.46
31:DA:1671:U:H2'	31:DA:1673:U:OP2	2.15	0.46
31:DA:1879:C:H2'	31:DA:1880:C:O4'	2.15	0.46
31:DA:2055:C:H5'	31:DA:2056:G:O5'	2.16	0.46
31:DA:2275:C:H6	31:DA:2275:C:C5'	2.28	0.46
31:DA:2328:A:H2'	31:DA:2329:G:C8	2.50	0.46
31:DA:2415:G:H4'	41:DP:66:GLY:CA	2.45	0.46
31:DA:2422:A:O2'	31:DA:2423:U:O5'	2.31	0.46
31:DA:2662:A:H4'	31:DA:2663:G:O4'	2.16	0.46
31:DA:2733:A:H2'	31:DA:2734:A:O4'	2.16	0.46
55:DA:3320:TEL:H572	55:DA:3320:TEL:H48	1.81	0.46
34:DE:34:VAL:HG22	34:DE:48:GLN:NE2	2.27	0.46
36:DG:71:THR:HB	36:DG:89:GLY:CA	2.45	0.46
39:DN:131:GLN:CD	39:DN:134:ARG:HA	2.36	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DO:35:VAL:CG1	40:DO:105:GLU:HB2	2.46	0.46
40:DO:71:ARG:HB3	40:DO:72:PRO:HD2	1.97	0.46
42:DQ:21:THR:O	42:DQ:22:LYS:HD2	2.16	0.46
44:DS:94:TYR:CD1	44:DS:95:HIS:N	2.84	0.46
47:DV:7:THR:N	47:DV:10:LYS:O	2.40	0.46
48:DW:24:ILE:O	48:DW:27:LYS:HG3	2.16	0.46
48:DW:73:ALA:HB3	48:DW:106:ILE:CD1	2.46	0.46
1:AA:132:C:O2'	1:AA:133:U:H5'	2.14	0.46
1:AA:345:C:H4'	1:AA:346:G:O5'	2.15	0.46
1:AA:357:G:OP1	1:AA:366:C:O2'	2.27	0.46
1:AA:360:A:C2'	1:AA:361:G:H5'	2.46	0.46
1:AA:371:G:C2	1:AA:372:C:C5	3.04	0.46
1:AA:542:G:C2	1:AA:543:C:C5	3.03	0.46
1:AA:557:G:N1	1:AA:558:G:C2	2.83	0.46
1:AA:665:A:C2	1:AA:733:A:C8	3.04	0.46
1:AA:1060:C:C5	3:AC:2:GLY:O	2.68	0.46
1:AA:1152:A:O2'	1:AA:1153:C:H5'	2.16	0.46
1:AA:1523:G:C6	1:AA:1524:C:C4	3.03	0.46
10:AJ:30:SER:CB	10:AJ:81:THR:HG22	2.46	0.46
10:AJ:49:VAL:O	10:AJ:60:ARG:HB2	2.16	0.46
16:AP:48:TRP:HD1	16:AP:48:TRP:H	1.62	0.46
22:B0:43:THR:CG2	31:BA:2336:A:H61	2.28	0.46
22:B0:74:ARG:HH22	32:BB:13:A:H8	1.62	0.46
23:B1:53:VAL:HG12	23:B1:58:ILE:HB	1.98	0.46
23:B1:85:LEU:C	23:B1:87:PRO:CD	2.84	0.46
28:B6:42:TRP:CE2	31:BA:643:A:OP1	2.69	0.46
31:BA:85:G:OP1	50:BY:30:VAL:HG21	2.15	0.46
31:BA:204:A:O3'	31:BA:205:G:H4'	2.15	0.46
31:BA:554:U:O2'	31:BA:555:U:H5'	2.15	0.46
31:BA:848:G:O6	31:BA:928:G:H2'	2.16	0.46
31:BA:1016:G:H2'	31:BA:1017:G:O4'	2.15	0.46
31:BA:1450:G:P	31:BA:1530:C:N4	2.89	0.46
31:BA:1516:C:H2'	31:BA:1517:G:H5''	1.98	0.46
31:BA:1665:A:H4'	40:BO:67:LYS:HB2	1.97	0.46
31:BA:1826:G:C4'	33:BD:242:ARG:HH21	2.11	0.46
31:BA:2031:A:OP1	31:BA:2031:A:H8	1.98	0.46
31:BA:2277:G:C2'	31:BA:2278:A:H5'	2.45	0.46
31:BA:2318:G:C2'	31:BA:2319:G:OP1	2.63	0.46
31:BA:2330:G:H2'	31:BA:2331:G:O4'	2.16	0.46
31:BA:2469:A:O2'	42:BQ:56:ARG:CG	2.64	0.46
31:BA:2472:G:C5	31:BA:2475:C:C4	3.03	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2475:C:H2'	31:BA:2477:C:OP2	2.16	0.46
31:BA:2540:C:O2'	31:BA:2740:A:N3	2.44	0.46
31:BA:2571:C:H5''	31:BA:2572:A:H5''	1.96	0.46
31:BA:2626:C:O2'	31:BA:2627:G:H5'	2.15	0.46
31:BA:2734:A:H2'	31:BA:2735:G:H5'	1.97	0.46
31:BA:2892:A:N6	31:BA:2893:G:C2	2.83	0.46
34:BE:14:ILE:HG13	34:BE:21:VAL:HG23	1.97	0.46
34:BE:52:LEU:HD22	34:BE:76:ARG:CD	2.45	0.46
34:BE:129:HIS:C	34:BE:130:GLY:O	2.54	0.46
37:BH:77:LYS:HA	37:BH:80:SER:HB3	1.98	0.46
39:BN:47:ALA:CB	39:BN:112:LEU:CD1	2.86	0.46
40:BO:36:GLY:HA2	40:BO:106:LEU:HD21	1.97	0.46
41:BP:30:THR:O	41:BP:31:ALA:C	2.54	0.46
41:BP:97:PRO:O	41:BP:98:GLU:CB	2.59	0.46
46:BU:49:HIS:O	46:BU:53:ARG:N	2.44	0.46
51:BZ:28:MET:CE	51:BZ:59:LEU:HD12	2.46	0.46
51:BZ:33:LEU:HD11	51:BZ:35:ARG:HG3	1.98	0.46
1:CA:445:G:C6	1:CA:490:G:C6	3.04	0.46
1:CA:450:G:C8	1:CA:481:G:C6	3.04	0.46
1:CA:564:C:N1	17:CQ:31:LEU:HD11	2.31	0.46
1:CA:671:G:N3	1:CA:672:U:C6	2.83	0.46
1:CA:679:C:H42	1:CA:711:G:H1	1.62	0.46
1:CA:722:A:O3'	1:CA:723:U:C6	2.68	0.46
1:CA:995:C:O2'	1:CA:996:A:H5'	2.16	0.46
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.81	0.46
5:CE:113:ALA:HB3	5:CE:115:VAL:HG23	1.97	0.46
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.16	0.46
7:CG:6:ARG:O	7:CG:7:ALA:O	2.34	0.46
7:CG:75:VAL:HG23	7:CG:75:VAL:O	2.16	0.46
8:CH:83:ILE:HG12	8:CH:83:ILE:O	2.15	0.46
9:CI:78:LYS:HB2	9:CI:78:LYS:NZ	2.30	0.46
10:CJ:81:THR:HA	10:CJ:84:GLN:HB2	1.97	0.46
11:CK:73:MET:HG2	11:CK:103:LEU:HD21	1.97	0.46
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.30	0.46
15:CO:76:GLU:HG3	15:CO:77:ARG:N	2.30	0.46
16:CP:9:PHE:O	16:CP:10:GLY:O	2.34	0.46
24:D2:45:SER:HA	24:D2:47:ASN:ND2	2.30	0.46
28:D6:45:LYS:CB	31:DA:2371:G:H4'	2.46	0.46
31:DA:18:C:H2'	31:DA:19:C:H6	1.81	0.46
31:DA:174:C:C3'	31:DA:175:G:H5''	2.45	0.46
31:DA:482:A:H5''	31:DA:483:A:OP1	2.15	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:588:U:O2'	31:DA:589:C:H5'	2.16	0.46
31:DA:849:A:H3'	31:DA:850:C:H6	1.80	0.46
31:DA:1053:C:N4	31:DA:1107:G:N2	2.64	0.46
31:DA:1142(A):A:N7	31:DA:1144:G:C6	2.83	0.46
31:DA:1307:A:N3	31:DA:1307:A:H2'	2.30	0.46
31:DA:1629:U:O2	31:DA:2698:U:H5''	2.15	0.46
31:DA:1630:G:H2'	31:DA:1631:C:C6	2.51	0.46
31:DA:1686:C:C4	31:DA:1687:G:C5	3.04	0.46
31:DA:1805:U:H2'	31:DA:1806:C:H6	1.81	0.46
31:DA:1826:G:C4'	33:DD:242:ARG:HH21	2.09	0.46
31:DA:1843:C:O2'	31:DA:1844:C:H5'	2.16	0.46
31:DA:1902:C:H4'	33:DD:244:ARG:HA	1.98	0.46
31:DA:1992:G:O2'	31:DA:1993:U:OP2	2.27	0.46
31:DA:2074:U:H4'	31:DA:2598:A:O4'	2.16	0.46
31:DA:2282:G:OP1	31:DA:2283:C:H1'	2.15	0.46
31:DA:2346:A:C2	31:DA:2383:G:C2	3.03	0.46
31:DA:2582:G:C2	31:DA:2583:G:C8	3.04	0.46
31:DA:2595:G:N1	31:DA:2599:G:C6	2.83	0.46
31:DA:2750:A:H4'	31:DA:2751:G:OP2	2.15	0.46
31:DA:2752:C:O2	31:DA:2752:C:C2'	2.51	0.46
32:DB:19:G:C6	32:DB:20:C:C4	3.04	0.46
32:DB:30:C:OP2	44:DS:32:LEU:HD11	2.16	0.46
33:DD:4:LYS:HB2	33:DD:18:VAL:HG12	1.98	0.46
34:DE:36:ARG:NH1	34:DE:85:ASN:ND2	2.63	0.46
35:DF:150:GLY:HA2	35:DF:172:TRP:CE3	2.50	0.46
36:DG:114:ILE:HG22	36:DG:115:ARG:HG3	1.98	0.46
39:DN:26:LEU:HD11	39:DN:30:ILE:HD11	1.98	0.46
39:DN:47:ALA:CB	39:DN:112:LEU:CD1	2.89	0.46
48:DW:55:ALA:O	48:DW:58:ALA:HB3	2.15	0.46
49:DX:9:LEU:HD12	49:DX:30:VAL:O	2.16	0.46
49:DX:18:TYR:O	49:DX:20:GLY:N	2.48	0.46
50:DY:46:LYS:CB	50:DY:47:LYS:HD2	2.46	0.46
51:DZ:39:VAL:HG23	51:DZ:44:PHE:HB2	1.98	0.46
1:AA:51:A:N1	1:AA:116:A:C4	2.84	0.46
1:AA:131:C:H2'	1:AA:132:C:C6	2.49	0.46
1:AA:369:C:O2'	1:AA:370:C:H5'	2.15	0.46
1:AA:373:A:C2	1:AA:374:A:C8	3.03	0.46
1:AA:735:C:H1'	18:AR:75:ILE:CD1	2.46	0.46
1:AA:922:G:O6	1:AA:923:A:C6	2.69	0.46
1:AA:945:G:C6	1:AA:1337:G:C6	3.04	0.46
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.97	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	1.97	0.46
1:AA:1293:G:O2'	1:AA:1294:G:H8	1.97	0.46
1:AA:1416:G:C5	1:AA:1417:G:C5	3.04	0.46
7:AG:79:ARG:HG2	7:AG:84:ASN:HD21	1.81	0.46
8:AH:102:ARG:N	8:AH:102:ARG:NE	2.59	0.46
9:AI:17:VAL:HG22	9:AI:63:ILE:CG1	2.46	0.46
9:AI:18:PHE:HD1	9:AI:62:TYR:HD2	1.64	0.46
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.31	0.46
22:B0:42:GLY:HA3	31:BA:2331:G:O4'	2.16	0.46
24:B2:12:GLU:HA	24:B2:14:ARG:NH2	2.30	0.46
24:B2:24:LEU:O	24:B2:27:GLU:HB2	2.16	0.46
31:BA:112:U:O4	31:BA:113:G:C2	2.68	0.46
31:BA:271(D):G:H8	31:BA:271(D):G:O5'	1.98	0.46
31:BA:363(E):U:OP2	31:BA:363(E):U:C6	2.69	0.46
31:BA:708:C:O2	31:BA:708:C:H2'	2.15	0.46
31:BA:764:A:H5''	33:BD:210:GLY:CA	2.46	0.46
31:BA:814:C:H42	31:BA:1193:G:H1	1.61	0.46
31:BA:962:G:C6	31:BA:963:U:C4	3.04	0.46
31:BA:1022:G:C6	31:BA:1140:C:C4	3.04	0.46
31:BA:1132:A:OP1	39:BN:82:LEU:HD23	2.16	0.46
31:BA:1174:A:OP1	31:BA:1175:U:OP1	2.34	0.46
31:BA:1190:G:C5'	41:BP:35:HIS:HA	2.46	0.46
31:BA:1224:C:H2'	31:BA:1225:G:O4'	2.15	0.46
31:BA:1279:G:H5'	43:BR:34:ILE:HD11	1.98	0.46
31:BA:1661:G:C6	31:BA:2000:G:C6	3.03	0.46
31:BA:1925:C:O2'	31:BA:1926:U:H5'	2.15	0.46
31:BA:2064:C:H2'	31:BA:2065:C:C6	2.51	0.46
31:BA:2476:A:C6	31:BA:2477:C:C4	3.04	0.46
31:BA:2633:G:H5'	31:BA:2811:G:O2'	2.16	0.46
31:BA:2689:U:OP1	31:BA:2719:G:N2	2.46	0.46
31:BA:2811:G:OP1	34:BE:60:ASN:CB	2.63	0.46
32:BB:45:A:C2'	32:BB:46:A:H5'	2.45	0.46
34:BE:47:VAL:HG21	34:BE:86:PRO:HD3	1.97	0.46
37:BH:54:ARG:HB3	37:BH:65:HIS:HB2	1.98	0.46
38:BI:33:ARG:C	38:BI:35:LEU:H	2.18	0.46
39:BN:42:TRP:HD1	46:BU:64:ARG:NE	2.14	0.46
39:BN:131:GLN:NE2	39:BN:133:GLN:O	2.48	0.46
40:BO:79:PHE:HE2	40:BO:101:PRO:HG2	1.81	0.46
44:BS:89:ARG:CB	44:BS:92:TYR:HB3	2.42	0.46
46:BU:91:ASP:CG	46:BU:96:ALA:HB2	2.36	0.46
48:BW:75:TYR:O	48:BW:75:TYR:HD1	1.96	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BX:47:PHE:O	49:BX:48:LYS:C	2.53	0.46
51:BZ:39:VAL:HG23	51:BZ:40:ASP:O	2.15	0.46
51:BZ:97:GLU:O	51:BZ:98:MET:HB3	2.16	0.46
1:CA:233:C:H2'	1:CA:234:C:C6	2.35	0.46
1:CA:477:A:C2	1:CA:479:C:C5	3.04	0.46
1:CA:564:C:H5'	12:CL:10:LEU:HD12	1.97	0.46
1:CA:577:G:C2	1:CA:578:C:C5	3.04	0.46
1:CA:725:G:C2	1:CA:726:C:C6	3.04	0.46
1:CA:833:U:O2	1:CA:854:G:C2	2.69	0.46
1:CA:1025:U:HO2'	1:CA:1026:G:H8	1.60	0.46
1:CA:1091:U:O2	1:CA:1093:A:C8	2.69	0.46
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.45	0.46
2:CB:82:ARG:HG3	2:CB:92:TYR:CE1	2.51	0.46
2:CB:82:ARG:HG3	2:CB:92:TYR:CZ	2.50	0.46
2:CB:213:LEU:HD22	2:CB:214:ILE:HD13	1.98	0.46
3:CC:112:SER:O	3:CC:116:VAL:HG23	2.15	0.46
4:CD:100:ARG:O	4:CD:101:LEU:C	2.54	0.46
4:CD:106:TYR:HE1	4:CD:112:VAL:C	2.19	0.46
4:CD:209:ARG:CG	4:CD:209:ARG:NH1	2.53	0.46
6:CF:63:TYR:N	6:CF:63:TYR:CD2	2.83	0.46
8:CH:112:LEU:HB2	8:CH:133:LEU:HA	1.97	0.46
9:CI:105:ASP:OD2	9:CI:107:ARG:HD3	2.15	0.46
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	2.16	0.46
11:CK:111:ASP:HA	18:CR:84:LYS:CG	2.43	0.46
12:CL:102:ARG:HD2	12:CL:108:ALA:O	2.15	0.46
15:CO:30:ALA:HA	15:CO:85:LEU:HD11	1.97	0.46
20:CT:84:LEU:C	20:CT:86:ARG:N	2.69	0.46
22:D0:36:ILE:HG12	22:D0:37:LEU:N	2.31	0.46
22:D0:60:PHE:CZ	31:DA:2365:G:H4'	2.50	0.46
22:D0:84:LEU:HD12	22:D0:84:LEU:N	2.31	0.46
28:D6:25:LYS:CE	28:D6:27:LYS:HZ3	2.27	0.46
29:D7:26:GLY:O	29:D7:30:VAL:HG23	2.15	0.46
31:DA:768:G:O2'	31:DA:769:G:H5'	2.16	0.46
31:DA:990:A:N6	31:DA:1186:G:H1'	2.31	0.46
31:DA:1235:G:C2	31:DA:1236:G:N2	2.84	0.46
31:DA:1278:A:H5''	43:DR:36:THR:HG23	1.98	0.46
31:DA:1308:A:N6	31:DA:1309:G:C2	2.84	0.46
31:DA:1719:G:C2'	31:DA:1720:U:C5'	2.91	0.46
31:DA:2032:G:H21	34:DE:146:THR:HG23	1.81	0.46
31:DA:2053:G:N2	31:DA:2054:A:C4	2.83	0.46
31:DA:2206:G:N2	31:DA:2207:G:C5'	2.62	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2271:G:C6	31:DA:2272:U:C4	3.04	0.46
31:DA:2555:U:C5	31:DA:2556:C:C6	3.04	0.46
31:DA:2636:U:OP1	34:DE:80:GLU:HG3	2.16	0.46
31:DA:2886:G:C2	31:DA:2887:U:C5	3.03	0.46
33:DD:143:HIS:CD2	33:DD:144:ALA:N	2.84	0.46
34:DE:72:VAL:O	34:DE:73:GLU:C	2.54	0.46
35:DF:2:LYS:O	35:DF:25:PRO:HG2	2.15	0.46
35:DF:57:VAL:HG12	35:DF:58:ALA:N	2.31	0.46
35:DF:129:PHE:CD2	35:DF:163:VAL:HG21	2.51	0.46
36:DG:5:VAL:HG21	36:DG:101:ILE:CB	2.44	0.46
37:DH:77:LYS:HA	37:DH:80:SER:HB3	1.97	0.46
39:DN:15:LEU:HD13	39:DN:15:LEU:C	2.35	0.46
42:DQ:16:ARG:CG	42:DQ:17:LEU:N	2.79	0.46
42:DQ:116:GLU:O	42:DQ:119:ARG:N	2.48	0.46
43:DR:33:ARG:CG	43:DR:115:GLU:HG2	2.38	0.46
43:DR:35:THR:HA	43:DR:112:ALA:O	2.16	0.46
45:DT:28:VAL:O	45:DT:29:ARG:CB	2.62	0.46
45:DT:50:ILE:O	45:DT:99:LEU:HD12	2.15	0.46
47:DV:86:GLY:O	47:DV:87:HIS:CG	2.69	0.46
1:AA:30:U:H4'	1:AA:31:G:OP2	2.14	0.46
1:AA:59:A:H3'	1:AA:331:G:H22	1.80	0.46
1:AA:322:C:OP2	1:AA:328:C:N4	2.48	0.46
1:AA:330:C:C2'	1:AA:331:G:H5'	2.46	0.46
1:AA:411:A:C2'	1:AA:412:A:H4'	2.42	0.46
1:AA:769:G:C2'	1:AA:770:C:H5'	2.46	0.46
1:AA:914:A:C6	1:AA:915:A:C5	3.04	0.46
1:AA:920:U:H1'	1:AA:1080:A:N3	2.30	0.46
1:AA:1066:C:H42	1:AA:1191:A:H62	1.64	0.46
1:AA:1094:G:O2'	1:AA:1108:G:N1	2.49	0.46
1:AA:1157:A:C4	1:AA:1181:G:N2	2.84	0.46
1:AA:1300:G:C5	1:AA:1334:G:C6	3.04	0.46
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.13	0.46
3:AC:134:ILE:HD11	3:AC:153:VAL:HG21	1.97	0.46
3:AC:184:TYR:CG	3:AC:185:GLY:N	2.84	0.46
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.14	0.46
6:AF:30:LEU:O	6:AF:33:TYR:O	2.33	0.46
8:AH:6:ILE:HB	8:AH:85:ARG:NH1	2.31	0.46
11:AK:66:LEU:HD23	11:AK:66:LEU:HA	1.70	0.46
22:B0:1:MET:O	22:B0:2:ALA:HB3	2.16	0.46
27:B5:20:ARG:HB3	27:B5:23:HIS:CD2	2.51	0.46
31:BA:78:A:C2	31:BA:79:G:C5	3.04	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:78:A:C6	31:BA:109:G:C6	3.04	0.46
31:BA:288:C:H2'	31:BA:289:A:O5'	2.15	0.46
31:BA:346:A:H2'	31:BA:347:A:O5'	2.15	0.46
31:BA:588:U:C2	35:BF:90:PHE:CE1	3.04	0.46
31:BA:631:A:OP1	41:BP:64:LYS:CE	2.46	0.46
31:BA:1271:G:C2	31:BA:1617:C:H4'	2.51	0.46
31:BA:1344:G:H4'	31:BA:1384:A:C5	2.51	0.46
31:BA:1355:G:C6	31:BA:1356:G:C5	3.04	0.46
31:BA:1465:G:C2	31:BA:1466:G:C4	3.04	0.46
31:BA:1590:U:H2'	31:BA:1591:G:O4'	2.16	0.46
31:BA:1682:G:C5	31:BA:1683:C:C4	3.04	0.46
31:BA:1719:G:C2'	31:BA:1720:U:C5'	2.89	0.46
31:BA:2070:G:C4	31:BA:2071:A:C8	3.04	0.46
31:BA:2243:U:O2	31:BA:2434:A:C2	2.69	0.46
31:BA:2275:C:H6	31:BA:2275:C:C5'	2.29	0.46
31:BA:2367:G:H8	31:BA:2367:G:O5'	1.99	0.46
31:BA:2518:A:H8	31:BA:2518:A:H5'	1.80	0.46
31:BA:2619:C:H2'	31:BA:2620:C:H6	1.81	0.46
31:BA:2705:A:H2'	31:BA:2706:G:O4'	2.16	0.46
32:BB:38:C:H4'	44:BS:95:HIS:HE1	1.77	0.46
32:BB:116:G:N3	32:BB:117:G:C8	2.84	0.46
34:BE:2:LYS:HB3	34:BE:95:ILE:HG21	1.97	0.46
35:BF:32:LEU:HD23	35:BF:32:LEU:O	2.16	0.46
36:BG:127:GLY:CA	36:BG:166:ASP:HB3	2.33	0.46
38:BI:132:PRO:C	38:BI:133:HIS:CD2	2.89	0.46
38:BI:133:HIS:CD2	38:BI:133:HIS:N	2.83	0.46
44:BS:67:ARG:CD	44:BS:101:LEU:HD23	2.46	0.46
44:BS:102:ALA:O	44:BS:104:GLY:N	2.49	0.46
47:BV:72:VAL:CG1	47:BV:88:ARG:HH22	2.28	0.46
49:BX:53:LYS:CE	49:BX:55:ASN:HD21	2.28	0.46
1:CA:51:A:H61	1:CA:314:C:H1'	1.80	0.46
1:CA:57:G:C6	1:CA:356:A:N1	2.84	0.46
1:CA:67:C:H4'	1:CA:172:A:H1'	1.98	0.46
1:CA:277:C:OP1	17:CQ:41:LYS:HE3	2.16	0.46
1:CA:532:A:H61	3:CC:193:TYR:HB3	1.80	0.46
1:CA:617:G:H2'	1:CA:618:C:O5'	2.15	0.46
1:CA:627:G:C4	1:CA:628:G:C8	3.03	0.46
1:CA:728:A:C5	15:CO:54:ARG:HD2	2.50	0.46
1:CA:808:C:OP1	15:CO:48:LYS:HE3	2.16	0.46
1:CA:835:U:H3	1:CA:851:G:H1	1.64	0.46
1:CA:964:A:N6	1:CA:965:A:N6	2.64	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1014:A:H2	1:CA:1219:U:O2	1.99	0.46
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.80	0.46
1:CA:1521:G:H2'	1:CA:1522:U:H6	1.80	0.46
2:CB:53:ARG:NH2	2:CB:198:ASP:O	2.48	0.46
2:CB:171:ALA:HA	2:CB:174:VAL:CG2	2.46	0.46
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.15	0.46
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.16	0.46
6:CF:30:LEU:O	6:CF:33:TYR:O	2.34	0.46
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.97	0.46
22:D0:48:GLY:HA3	22:D0:80:HIS:CE1	2.51	0.46
23:D1:18:ILE:HD12	23:D1:18:ILE:N	2.31	0.46
23:D1:91:LYS:O	23:D1:92:LYS:HD2	2.16	0.46
29:D7:15:THR:HG22	29:D7:16:HIS:CE1	2.50	0.46
31:DA:104:U:C5	31:DA:105:C:C4	3.03	0.46
31:DA:107:C:C2	31:DA:108:U:C5	3.04	0.46
31:DA:244:A:H4'	41:DP:74:GLU:HB2	1.98	0.46
31:DA:336:C:HO2'	50:DY:35:TYR:HH	1.61	0.46
31:DA:459:U:H2'	31:DA:460:A:C8	2.51	0.46
31:DA:543:C:H6	31:DA:543:C:HO2'	1.64	0.46
31:DA:547:A:H2'	31:DA:547:A:N3	2.30	0.46
31:DA:863:A:H2	31:DA:914:C:H41	1.64	0.46
31:DA:864:G:N2	31:DA:913:U:C2	2.84	0.46
31:DA:1000:A:C5	31:DA:1155:A:C5	3.03	0.46
31:DA:1045:A:H3'	31:DA:1045:A:N3	2.31	0.46
31:DA:1245:G:O3'	41:DP:16:ARG:NH2	2.49	0.46
31:DA:1356:G:C6	31:DA:1357:U:N3	2.84	0.46
31:DA:1442:G:C2	31:DA:1443:G:C4	3.03	0.46
31:DA:1486:A:N6	31:DA:1504:C:H42	2.13	0.46
31:DA:1798:U:H5''	33:DD:259:THR:HB	1.98	0.46
31:DA:2063:C:C5	31:DA:2064:C:C4	3.04	0.46
31:DA:2291:U:H5''	31:DA:2380:C:C2'	2.46	0.46
31:DA:2590:A:C2	31:DA:2605:U:C2	3.04	0.46
31:DA:2711:A:N6	31:DA:2714:G:C5	2.84	0.46
31:DA:2714:G:OP1	31:DA:2714:G:H8	1.99	0.46
32:DB:25:A:C2'	32:DB:26:A:C8	2.92	0.46
34:DE:4:ILE:HD13	34:DE:28:ALA:CB	2.44	0.46
35:DF:31:HIS:CB	41:DP:13:ASN:HD22	2.29	0.46
36:DG:31:VAL:C	36:DG:33:ARG:H	2.18	0.46
37:DH:85:LYS:NZ	37:DH:133:VAL:CG2	2.77	0.46
38:DI:6:LEU:HD23	38:DI:6:LEU:N	2.31	0.46
40:DO:56:ASP:O	40:DO:58:VAL:HG13	2.16	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DO:86:ILE:O	40:DO:87:ILE:HD13	2.15	0.46
42:DQ:140:ALA:CB	51:DZ:99:TYR:HB2	2.45	0.46
43:DR:116:LEU:HD23	43:DR:116:LEU:HA	1.61	0.46
44:DS:89:ARG:HA	44:DS:89:ARG:NE	2.25	0.46
46:DU:39:LEU:HD23	46:DU:39:LEU:HA	1.71	0.46
47:DV:72:VAL:HG12	47:DV:88:ARG:HH22	1.80	0.46
48:DW:36:LEU:CD1	48:DW:48:ALA:HA	2.45	0.46
1:AA:51:A:H61	1:AA:314:C:H1'	1.81	0.46
1:AA:233:C:C5	1:AA:234:C:H5	2.34	0.46
1:AA:363:A:C5	12:AL:31:PRO:HD2	2.51	0.46
1:AA:365:U:C5'	1:AA:366:C:OP1	2.55	0.46
1:AA:378:G:C5	1:AA:379:C:C4	3.04	0.46
1:AA:421:U:C4	3:AC:127:ARG:NH1	2.84	0.46
1:AA:443:C:C2	1:AA:444:C:C5	3.04	0.46
1:AA:666:G:N1	1:AA:741:G:C5	2.84	0.46
1:AA:682:G:N3	1:AA:709:G:C2	2.84	0.46
1:AA:799:G:C2'	1:AA:800:G:H5'	2.46	0.46
1:AA:1313:U:OP2	19:AS:6:LYS:HB3	2.16	0.46
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.52	0.46
6:AF:79:LEU:CB	6:AF:88:VAL:HG21	2.45	0.46
8:AH:8:ASP:O	8:AH:9:MET:C	2.53	0.46
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.15	0.46
10:AJ:54:PHE:HZ	10:AJ:55:LYS:HZ1	1.64	0.46
12:AL:20:LYS:HD3	12:AL:20:LYS:N	2.25	0.46
13:AM:17:VAL:O	13:AM:20:THR:HB	2.16	0.46
14:AN:57:ARG:HG2	14:AN:58:LYS:N	2.31	0.46
18:AR:53:ARG:HG3	18:AR:63:GLN:HG2	1.98	0.46
24:B2:30:ARG:HA	24:B2:33:MET:SD	2.56	0.46
27:B5:7:PRO:HA	31:BA:2615:U:N1	2.31	0.46
30:B8:12:LYS:HG2	41:BP:68:GLN:HE22	1.81	0.46
30:B8:35:GLN:HG2	31:BA:2420:C:OP1	2.16	0.46
31:BA:73:A:C2'	31:BA:74:A:OP2	2.64	0.46
31:BA:86:C:H4'	31:BA:104:U:H1'	1.98	0.46
31:BA:389:G:H22	41:BP:72:PRO:HD3	1.79	0.46
31:BA:764:A:N1	31:BA:781:A:C2	2.84	0.46
31:BA:1198:U:H2'	31:BA:1199:U:H6	1.81	0.46
31:BA:1547:C:H2'	31:BA:1548:C:C6	2.50	0.46
31:BA:1635:G:H5'	31:BA:1635:G:H8	1.81	0.46
31:BA:1651:G:OP1	43:BR:40:LYS:HG3	2.16	0.46
31:BA:1952:A:C6	40:BO:22:ILE:CD1	2.97	0.46
31:BA:2271:G:H8	31:BA:2271:G:O5'	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2282:G:H5'	31:BA:2389:G:C1'	2.46	0.46
31:BA:2291:U:H5''	31:BA:2380:C:H1'	1.98	0.46
31:BA:2531:A:H2'	31:BA:2531:A:N3	2.31	0.46
31:BA:2564:A:C6	31:BA:2565:A:N1	2.84	0.46
31:BA:2752:C:O2	31:BA:2752:C:C2'	2.55	0.46
31:BA:2808:U:C2'	31:BA:2809:A:C5'	2.90	0.46
33:BD:95:LEU:HD21	33:BD:105:ILE:HG21	1.95	0.46
33:BD:143:HIS:HD2	33:BD:144:ALA:HB2	1.81	0.46
34:BE:55:ASN:O	34:BE:57:LYS:N	2.49	0.46
35:BF:132:VAL:C	35:BF:134:GLY:N	2.65	0.46
39:BN:112:LEU:O	39:BN:113:GLY:C	2.53	0.46
41:BP:14:LYS:O	41:BP:15:ARG:HG3	2.16	0.46
41:BP:66:GLY:O	41:BP:68:GLN:HB3	2.15	0.46
42:BQ:140:ALA:N	51:BZ:53:ILE:HD12	2.28	0.46
44:BS:26:LEU:HG	44:BS:39:ILE:CD1	2.46	0.46
45:BT:29:ARG:HD2	45:BT:29:ARG:HA	1.75	0.46
46:BU:30:LYS:HA	46:BU:30:LYS:HD3	1.85	0.46
49:BX:25:LYS:HG3	49:BX:26:TYR:H	1.81	0.46
1:CA:182:U:N3	1:CA:183:G:H1'	2.31	0.46
1:CA:190:U:O2	20:CT:105:SER:HB2	2.15	0.46
1:CA:1060:C:C5	3:CC:2:GLY:O	2.68	0.46
1:CA:1128:C:N3	1:CA:1139:G:C6	2.83	0.46
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.79	0.46
1:CA:1428:A:H2'	1:CA:1429:C:O4'	2.16	0.46
1:CA:1498:U:H6	1:CA:1498:U:O5'	1.99	0.46
4:CD:30:LYS:C	4:CD:32:ALA:N	2.68	0.46
4:CD:111:ALA:HB2	4:CD:120:LEU:HD12	1.98	0.46
5:CE:144:THR:O	5:CE:148:VAL:HG23	2.16	0.46
6:CF:20:ALA:O	6:CF:23:LYS:HB2	2.16	0.46
10:CJ:54:PHE:HZ	10:CJ:55:LYS:HZ1	1.58	0.46
11:CK:94:ALA:O	11:CK:98:LEU:HG	2.16	0.46
11:CK:109:VAL:HG22	18:CR:86:VAL:HG13	1.98	0.46
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.64	0.46
19:CS:49:ILE:H	19:CS:49:ILE:HD12	1.81	0.46
22:D0:45:PHE:O	22:D0:59:LEU:HD11	2.16	0.46
22:D0:50:ASN:C	22:D0:62:LEU:HB2	2.37	0.46
30:D8:35:GLN:CB	31:DA:2420:C:OP1	2.64	0.46
31:DA:154:G:N3	31:DA:154(A):C:N3	2.64	0.46
31:DA:239:U:H2'	31:DA:240:G:O4'	2.16	0.46
31:DA:245:G:C4	31:DA:246:C:C6	3.03	0.46
31:DA:255:A:C4	31:DA:256:A:C8	3.04	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:271(L):U:H5''	31:DA:271(M):G:C5	2.50	0.46
31:DA:271(L):U:H5''	31:DA:271(M):G:C4	2.51	0.46
31:DA:465:G:C2	31:DA:466:A:C2	3.04	0.46
31:DA:561:G:O2'	46:DU:45:TYR:CE2	2.64	0.46
31:DA:573:G:O6	31:DA:2029:G:H2'	2.15	0.46
31:DA:603:A:H1'	31:DA:604:G:O4'	2.16	0.46
31:DA:685:A:H1'	31:DA:689:A:N6	2.31	0.46
31:DA:817:C:C2'	31:DA:818:G:C8	2.98	0.46
31:DA:832:G:H2'	31:DA:833:U:C6	2.51	0.46
31:DA:1006:C:O2'	39:DN:106:MET:O	2.32	0.46
31:DA:1446:C:C4	31:DA:1447:G:N7	2.85	0.46
31:DA:1516:C:H2'	31:DA:1517:G:H5''	1.98	0.46
31:DA:1528:A:H8	31:DA:1528(A):A:C8	2.34	0.46
31:DA:1590:U:H2'	31:DA:1591:G:O4'	2.15	0.46
31:DA:1750:G:O2'	31:DA:1751:C:H5'	2.16	0.46
31:DA:1790:C:H2'	31:DA:1791:A:C4	2.51	0.46
31:DA:1849:G:C2	31:DA:1850:G:C8	3.04	0.46
31:DA:1913:A:H4'	31:DA:1914:C:H5''	1.98	0.46
31:DA:2492:U:C2	31:DA:2493:U:C5	3.04	0.46
31:DA:2552:U:H2'	31:DA:2554:U:H5''	1.98	0.46
31:DA:2603:G:C5	31:DA:2604:U:C5	3.04	0.46
31:DA:2843:G:O2'	31:DA:2844:G:H5'	2.16	0.46
33:DD:159:ALA:HA	33:DD:196:VAL:HG12	1.98	0.46
33:DD:214:TRP:N	33:DD:214:TRP:CD1	2.83	0.46
34:DE:69:LYS:C	34:DE:71:GLY:H	2.19	0.46
34:DE:69:LYS:C	34:DE:71:GLY:N	2.69	0.46
34:DE:95:ILE:HD12	34:DE:95:ILE:H	1.81	0.46
34:DE:132:HIS:HA	34:DE:135:HIS:CE1	2.51	0.46
35:DF:33:LEU:O	35:DF:37:VAL:HG23	2.15	0.46
35:DF:46:ARG:HH11	35:DF:46:ARG:CB	2.29	0.46
36:DG:11:TYR:CG	36:DG:11:TYR:O	2.69	0.46
39:DN:30:ILE:HG21	39:DN:120:LEU:CD2	2.46	0.46
39:DN:35:ARG:HE	39:DN:35:ARG:HB3	1.39	0.46
41:DP:121:LYS:O	41:DP:123:LEU:HG	2.16	0.46
42:DQ:54:MET:O	42:DQ:57:HIS:N	2.48	0.46
43:DR:87:TYR:O	43:DR:89:ASP:N	2.49	0.46
48:DW:14:PRO:O	48:DW:17:VAL:N	2.49	0.46
51:DZ:125:LEU:HD23	51:DZ:126:VAL:N	2.31	0.46
1:AA:29:G:N2	1:AA:554:C:O2	2.49	0.45
1:AA:154:C:H2'	1:AA:155:C:C6	2.47	0.45
1:AA:377:G:C2'	1:AA:378:G:H5'	2.46	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:389:A:C2'	1:AA:390:C:H5'	2.37	0.45
1:AA:563:A:N7	1:AA:567:G:H1'	2.30	0.45
1:AA:945:G:H2'	1:AA:945:G:N3	2.31	0.45
1:AA:1072:G:C4	1:AA:1104:G:N2	2.85	0.45
1:AA:1278:U:H5''	1:AA:1279:A:C1'	2.46	0.45
4:AD:188:LEU:HA	4:AD:189:PRO:HD2	1.76	0.45
5:AE:47:LYS:O	5:AE:57:LYS:HE2	2.16	0.45
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.46	0.45
6:AF:50:TYR:CE2	6:AF:52:ILE:CD1	2.99	0.45
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	1.98	0.45
11:AK:99:GLN:OE1	11:AK:105:VAL:HG11	2.16	0.45
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.31	0.45
16:AP:28:ARG:CG	16:AP:28:ARG:NH1	2.65	0.45
24:B2:25:VAL:HA	24:B2:28:LYS:HB2	1.97	0.45
24:B2:30:ARG:O	24:B2:31:GLU:C	2.54	0.45
24:B2:49:LYS:CD	24:B2:53:LEU:CD2	2.83	0.45
28:B6:25:LYS:CE	28:B6:27:LYS:HZ3	2.29	0.45
30:B8:31:HIS:O	30:B8:32:LEU:C	2.55	0.45
31:BA:8:A:H2'	31:BA:9:U:C5	2.50	0.45
31:BA:18:C:H2'	31:BA:19:C:C6	2.51	0.45
31:BA:466:A:O4'	31:BA:683:C:H4'	2.17	0.45
31:BA:497:A:C5	31:BA:498:G:C8	3.04	0.45
31:BA:558:G:P	39:BN:111:PRO:HG2	2.57	0.45
31:BA:911:A:C4	42:BQ:9:TYR:OH	2.63	0.45
31:BA:933:A:H2'	31:BA:934:G:H5'	1.98	0.45
31:BA:1141:U:O5'	39:BN:63:THR:HG21	2.15	0.45
31:BA:1146:C:C4	31:BA:1147:C:C5	3.04	0.45
31:BA:1173:G:H3'	31:BA:1174:A:H5'	1.98	0.45
31:BA:1331:A:H2'	31:BA:1333:C:C5	2.51	0.45
31:BA:1337:G:C4	31:BA:1338:G:C8	3.05	0.45
31:BA:1411:C:HO2'	31:BA:1412:A:H8	1.63	0.45
31:BA:1661:G:H2'	31:BA:1662:C:C6	2.51	0.45
31:BA:1704:G:C2'	31:BA:1705:G:H5'	2.45	0.45
31:BA:1820:U:O2'	33:BD:159:ALA:HB3	2.16	0.45
31:BA:1839:G:C5'	31:BA:1839:G:H8	2.29	0.45
31:BA:2056:G:C2	31:BA:2057:A:C8	3.04	0.45
31:BA:2311:A:H4'	36:BG:77:ILE:HD11	1.98	0.45
31:BA:2380:C:HO2'	31:BA:2381:C:H5'	1.81	0.45
31:BA:2418:A:C5	31:BA:2419:U:C5	3.04	0.45
31:BA:2532:G:C6	31:BA:2533:A:C6	3.04	0.45
31:BA:2663:G:H8	31:BA:2664:G:N7	2.12	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2721:A:H2'	31:BA:2722:G:O4'	2.16	0.45
31:BA:2791:C:H4'	31:BA:2792:G:O5'	2.16	0.45
31:BA:2820:A:H2'	31:BA:2820:A:N3	2.31	0.45
32:BB:66:A:C4	32:BB:109:C:C4	3.04	0.45
32:BB:73:A:N3	32:BB:73:A:H2'	2.31	0.45
33:BD:43:ARG:NH1	33:BD:44:ASN:CG	2.68	0.45
33:BD:83:GLU:HB2	33:BD:92:ILE:HD11	1.97	0.45
33:BD:211:ARG:HA	33:BD:214:TRP:CD2	2.51	0.45
33:BD:244:ARG:HA	33:BD:245:PRO:HA	1.70	0.45
36:BG:39:ILE:HA	36:BG:157:ILE:HA	1.98	0.45
38:BI:93:THR:HG22	38:BI:119:PRO:HB3	1.99	0.45
39:BN:62:VAL:CG2	39:BN:66:LYS:HG3	2.46	0.45
42:BQ:42:ILE:HD13	42:BQ:97:VAL:CB	2.46	0.45
42:BQ:88:GLY:O	42:BQ:90:VAL:N	2.48	0.45
44:BS:73:LEU:O	44:BS:74:ALA:C	2.55	0.45
46:BU:50:ARG:CZ	47:BV:75:PHE:CD2	2.98	0.45
47:BV:18:LEU:C	47:BV:18:LEU:CD1	2.84	0.45
50:BY:76:CYS:HB3	50:BY:96:ILE:HD11	1.97	0.45
51:BZ:52:SER:OG	51:BZ:54:HIS:HD2	1.99	0.45
51:BZ:71:VAL:HG22	51:BZ:88:PHE:HE2	1.81	0.45
1:CA:192:U:H4'	20:CT:103:GLY:HA2	1.96	0.45
1:CA:391:G:O6	1:CA:392:G:C6	2.69	0.45
1:CA:594:G:H1	1:CA:645:C:H42	1.62	0.45
1:CA:782:A:O3'	1:CA:1515:C:H4'	2.16	0.45
1:CA:858:G:O6	1:CA:869:G:H3'	2.16	0.45
1:CA:989:C:H1'	1:CA:1016:A:C2	2.50	0.45
1:CA:1250:A:C2	1:CA:1370:G:H1'	2.51	0.45
1:CA:1300:G:C5	1:CA:1334:G:C6	3.04	0.45
1:CA:1477:C:O2'	1:CA:1478:C:H5'	2.16	0.45
1:CA:1516:G:N1	1:CA:1519:A:OP2	2.50	0.45
2:CB:54:THR:HG23	2:CB:199:TYR:HB3	1.97	0.45
2:CB:211:ILE:O	2:CB:215:LEU:HB2	2.16	0.45
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.16	0.45
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.98	0.45
4:CD:173:TRP:HZ3	4:CD:193:ASP:HB3	1.79	0.45
6:CF:49:ALA:HB1	18:CR:80:PRO:HA	1.98	0.45
7:CG:66:VAL:HG12	7:CG:70:LYS:HE3	1.97	0.45
12:CL:86:ARG:HG2	12:CL:87:GLY:N	2.31	0.45
15:CO:69:TYR:HD1	15:CO:72:ARG:NH2	2.13	0.45
31:DA:54:G:N2	31:DA:126:A:C2	2.83	0.45
31:DA:86:C:H4'	31:DA:104:U:H1'	1.98	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:185:U:H2'	31:DA:186:G:C8	2.50	0.45
31:DA:186:G:O2'	31:DA:187:G:H5'	2.17	0.45
31:DA:266:G:C2'	31:DA:267:C:O5'	2.64	0.45
31:DA:456:C:C4	49:DX:66:LEU:HD22	2.52	0.45
31:DA:514:A:C2	31:DA:515:A:C4	3.04	0.45
31:DA:516:C:H2'	31:DA:517:C:C6	2.51	0.45
31:DA:567:A:N1	31:DA:571:A:H8	2.14	0.45
31:DA:704:G:N3	31:DA:726:G:C2	2.84	0.45
31:DA:866:A:O2'	31:DA:867:C:H5'	2.16	0.45
31:DA:1288:U:H4'	31:DA:1289:C:OP2	2.16	0.45
31:DA:1315:C:H2'	31:DA:1316:U:H6	1.81	0.45
31:DA:1386:C:OP2	31:DA:1396:U:H5	1.98	0.45
31:DA:1411:C:C2'	31:DA:1412:A:H8	2.28	0.45
31:DA:1561:G:O2'	31:DA:1562:A:H5'	2.16	0.45
31:DA:1641:A:H2'	31:DA:1642:G:O4'	2.16	0.45
31:DA:1651:G:OP1	43:DR:40:LYS:HG3	2.15	0.45
31:DA:1661:G:C6	31:DA:2000:G:C6	3.04	0.45
31:DA:1839:G:C8	31:DA:1839:G:C5'	2.99	0.45
31:DA:1921:G:O2'	31:DA:1922:G:H5'	2.16	0.45
31:DA:2340:G:HO2'	31:DA:2341:G:H5'	1.79	0.45
31:DA:2359:C:O2'	31:DA:2360:A:H5'	2.16	0.45
31:DA:2360:A:O2'	31:DA:2361:A:H5''	2.15	0.45
31:DA:2711:A:C8	31:DA:2714:G:H1'	2.51	0.45
31:DA:2784:C:H2'	31:DA:2785:C:H6	1.81	0.45
31:DA:2808:U:HO2'	31:DA:2809:A:H5'	1.80	0.45
31:DA:2835:A:N6	31:DA:2879:C:C6	2.84	0.45
34:DE:23:VAL:HA	34:DE:184:VAL:O	2.16	0.45
34:DE:70:ALA:O	34:DE:71:GLY:C	2.54	0.45
34:DE:195:LEU:HG	34:DE:196:VAL:N	2.31	0.45
36:DG:82:LEU:CB	36:DG:87:PRO:HG3	2.41	0.45
36:DG:96:ARG:CD	36:DG:97:ASP:H	2.29	0.45
38:DI:92:VAL:HG23	38:DI:96:ASP:CB	2.45	0.45
43:DR:26:LYS:HE2	43:DR:71:GLN:H	1.82	0.45
44:DS:95:HIS:O	44:DS:97:ARG:N	2.49	0.45
46:DU:66:ASN:HA	46:DU:76:TYR:HB2	1.97	0.45
1:AA:41:G:C4	1:AA:402:G:N2	2.84	0.45
1:AA:41:G:C5	1:AA:402:G:N1	2.85	0.45
1:AA:69:G:C2	1:AA:70:G:C5	3.04	0.45
1:AA:171:A:H2'	1:AA:172:A:C8	2.51	0.45
1:AA:240:C:H2'	1:AA:241:C:H6	1.80	0.45
1:AA:273:A:O2'	1:AA:274:A:H5'	2.16	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:292:G:C5	1:AA:293:G:H1'	2.52	0.45
1:AA:364:A:C2'	1:AA:365:U:O2	2.63	0.45
1:AA:490:G:O2'	1:AA:491:G:H5'	2.17	0.45
1:AA:617:G:N1	1:AA:618:C:C4	2.83	0.45
1:AA:618:C:H5''	1:AA:619:U:C5'	2.43	0.45
1:AA:627:G:C4	1:AA:628:G:C8	3.04	0.45
1:AA:753:A:H4'	1:AA:754:C:O4'	2.15	0.45
1:AA:766:A:C2'	1:AA:767:A:H5'	2.45	0.45
1:AA:965:A:C2	1:AA:969:A:C2	3.04	0.45
1:AA:1077:G:C6	1:AA:1081:G:O6	2.69	0.45
1:AA:1128:C:N3	1:AA:1139:G:C6	2.84	0.45
1:AA:1321:C:H5''	1:AA:1322:C:C5'	2.40	0.45
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.51	0.45
2:AB:204:ASN:HB3	2:AB:210:SER:HB3	1.95	0.45
4:AD:100:ARG:O	4:AD:101:LEU:C	2.55	0.45
8:AH:51:VAL:HB	8:AH:52:ASP:H	1.48	0.45
9:AI:105:ASP:OD2	9:AI:107:ARG:HD3	2.17	0.45
17:AQ:77:VAL:O	17:AQ:78:GLU:HB3	2.16	0.45
20:AT:36:LEU:HA	20:AT:36:LEU:HD13	1.67	0.45
22:B0:41:ARG:HD2	22:B0:41:ARG:N	2.10	0.45
27:B5:47:PRO:C	27:B5:48:GLU:CG	2.84	0.45
28:B6:11:LEU:HD11	28:B6:26:ASN:ND2	2.30	0.45
30:B8:26:LYS:HB3	30:B8:44:LYS:HG3	1.98	0.45
31:BA:70:G:H2'	31:BA:113:G:O2'	2.17	0.45
31:BA:92:A:O2'	31:BA:93:G:H5'	2.16	0.45
31:BA:271(M):G:C5'	38:BI:57:ARG:NH1	2.80	0.45
31:BA:526:A:O2'	31:BA:2043:C:C2'	2.64	0.45
31:BA:661:C:O3'	41:BP:18:ARG:HA	2.16	0.45
31:BA:814:C:H5	41:BP:27:HIS:CD2	2.35	0.45
31:BA:1403:C:H2'	31:BA:1404:C:O4'	2.16	0.45
31:BA:1665:A:O2'	31:BA:1666:G:H5'	2.16	0.45
31:BA:1696:G:H2'	31:BA:1697:G:H5'	1.98	0.45
31:BA:1710:C:H4'	31:BA:2858:C:O2	2.16	0.45
31:BA:1900:A:N1	31:BA:1970:A:C6	2.84	0.45
31:BA:2059:A:H5''	35:BF:71:GLY:HA2	1.98	0.45
31:BA:2093:G:O2'	38:BI:25:TYR:HD2	1.99	0.45
31:BA:2308:G:N2	31:BA:2309:A:C6	2.84	0.45
31:BA:2475:C:C5'	31:BA:2476:A:OP2	2.61	0.45
31:BA:2638:G:P	34:BE:82:ARG:NH2	2.89	0.45
32:BB:55:U:H2'	32:BB:56:G:H8	1.82	0.45
33:BD:248:SER:HB2	33:BD:249:PRO:HD2	1.98	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:75:VAL:O	34:BE:77:ILE:N	2.46	0.45
39:BN:31:ALA:O	39:BN:32:THR:C	2.54	0.45
42:BQ:29:PHE:CD1	42:BQ:29:PHE:N	2.85	0.45
43:BR:5:LYS:H	43:BR:5:LYS:CD	2.27	0.45
43:BR:28:LEU:O	43:BR:28:LEU:HD22	2.16	0.45
44:BS:94:TYR:HE1	44:BS:98:VAL:HB	1.82	0.45
45:BT:29:ARG:HG2	45:BT:85:LYS:HA	1.98	0.45
47:BV:2:PHE:HB2	47:BV:42:GLY:HA2	1.88	0.45
47:BV:72:VAL:O	47:BV:73:SER:CB	2.64	0.45
48:BW:23:LEU:HA	48:BW:23:LEU:HD12	1.59	0.45
50:BY:79:CYS:O	50:BY:80:GLY:C	2.54	0.45
51:BZ:30:ASN:HA	51:BZ:89:PHE:HE2	1.80	0.45
1:CA:147:G:N2	1:CA:148:G:H1'	2.31	0.45
1:CA:195:A:H1'	1:CA:222:U:O2'	2.16	0.45
1:CA:198:G:C8	1:CA:220:G:N2	2.84	0.45
1:CA:224:C:C2	1:CA:225:C:C5	3.04	0.45
1:CA:259:G:C2	1:CA:268:C:O2	2.69	0.45
1:CA:273:A:O2'	1:CA:274:A:H5'	2.16	0.45
1:CA:457:C:O5'	1:CA:457:C:H6	1.99	0.45
1:CA:623:C:C4	1:CA:624:C:C4	3.05	0.45
1:CA:682:G:C4	1:CA:683:G:C8	3.05	0.45
1:CA:961:U:O2'	1:CA:962:C:H5'	2.15	0.45
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.81	0.45
1:CA:1158:C:N4	1:CA:1181:G:H22	2.14	0.45
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.32	0.45
1:CA:1352:C:O2	1:CA:1371:G:C2	2.69	0.45
3:CC:188:LEU:O	3:CC:189:ALA:CB	2.65	0.45
4:CD:108:LEU:HD21	4:CD:174:LEU:HD22	1.99	0.45
6:CF:6:VAL:HA	6:CF:90:VAL:HA	1.99	0.45
7:CG:40:ALA:O	7:CG:44:TYR:CD1	2.69	0.45
9:CI:11:LYS:HG2	9:CI:11:LYS:O	2.17	0.45
9:CI:17:VAL:HG22	9:CI:63:ILE:CG1	2.45	0.45
18:CR:36:ASN:O	18:CR:39:VAL:HB	2.16	0.45
20:CT:79:ARG:HB2	20:CT:79:ARG:HH11	1.81	0.45
22:D0:40:GLN:NE2	22:D0:43:THR:C	2.69	0.45
27:D5:2:ALA:HA	31:DA:2015:A:C1'	2.30	0.45
29:D7:10:ARG:O	29:D7:14:LYS:HB2	2.17	0.45
30:D8:35:GLN:OE1	31:DA:2421:G:OP2	2.35	0.45
31:DA:271(W):G:C2'	31:DA:271(X):G:H5'	2.45	0.45
31:DA:280:C:C2'	31:DA:281:G:O5'	2.63	0.45
31:DA:518:G:C4	31:DA:519:U:C5	3.04	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:870:A:N3	31:DA:870:A:H2'	2.32	0.45
31:DA:892:G:C6	31:DA:894:C:C4	3.04	0.45
31:DA:959:A:N1	31:DA:960:A:C2	2.84	0.45
31:DA:1213:A:C8	31:DA:1237:A:C6	3.05	0.45
31:DA:1227:G:H5''	46:DU:16:LYS:NZ	2.30	0.45
31:DA:1271:G:C2	31:DA:1617:C:H4'	2.51	0.45
31:DA:1556:C:H2'	31:DA:1557:C:C6	2.52	0.45
31:DA:1603:A:H5'	31:DA:1603:A:C8	2.41	0.45
31:DA:1747(A):G:C3'	31:DA:1748:G:H5''	2.42	0.45
31:DA:2067:G:O2'	31:DA:2069:G:H5'	2.16	0.45
31:DA:2418:A:C5	31:DA:2419:U:C5	3.05	0.45
31:DA:2615:U:O2'	31:DA:2616:C:H5'	2.16	0.45
31:DA:2865:U:C4	31:DA:2866:U:C4	3.04	0.45
32:DB:45:A:H2'	32:DB:45:A:N3	2.31	0.45
33:DD:143:HIS:HD2	33:DD:144:ALA:HB3	1.81	0.45
33:DD:215:LEU:HD13	33:DD:217:ARG:HH21	1.80	0.45
34:DE:32:PRO:HD2	34:DE:50:GLY:H	1.82	0.45
34:DE:144:ARG:HB3	34:DE:145:LYS:H	1.29	0.45
34:DE:181:LEU:HD13	34:DE:181:LEU:HA	1.63	0.45
35:DF:8:GLN:HA	35:DF:8:GLN:OE1	2.16	0.45
35:DF:39:TRP:O	35:DF:42:ALA:HB3	2.16	0.45
36:DG:117:PHE:HZ	36:DG:179:PRO:HG2	1.82	0.45
41:DP:7:ARG:HD2	41:DP:7:ARG:HA	1.59	0.45
42:DQ:32:TYR:HB2	42:DQ:106:VAL:HG23	1.98	0.45
42:DQ:118:LEU:HD23	42:DQ:118:LEU:HA	1.63	0.45
43:DR:96:ARG:HD2	43:DR:98:LEU:HD11	1.98	0.45
44:DS:28:VAL:C	44:DS:89:ARG:HD2	2.35	0.45
44:DS:34:HIS:CD2	44:DS:54:LEU:HB2	2.51	0.45
45:DT:67:SER:O	45:DT:69:GLY:N	2.48	0.45
47:DV:64:HIS:O	47:DV:66:ARG:N	2.50	0.45
49:DX:50:LYS:HE2	49:DX:82:GLN:HB2	1.98	0.45
50:DY:31:LEU:HB2	50:DY:36:ALA:H	1.82	0.45
1:AA:191:G:C6	1:AA:192:U:C4	3.05	0.45
1:AA:257:G:C4	1:AA:258:G:C8	3.05	0.45
1:AA:544:G:C6	1:AA:545:C:C4	3.05	0.45
1:AA:546:G:P	4:AD:72:GLU:HB3	2.56	0.45
1:AA:617:G:H2'	1:AA:618:C:O5'	2.16	0.45
1:AA:811:C:C4'	1:AA:900:A:N6	2.79	0.45
1:AA:1159:U:C6	1:AA:1182:G:N3	2.85	0.45
1:AA:1287:A:N3	1:AA:1353:G:H1'	2.32	0.45
1:AA:1322:C:H5'	13:AM:100:GLY:HA3	1.97	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:88:VAL:HG13	5:AE:97:GLY:CA	2.46	0.45
6:AF:8:ILE:HG22	6:AF:9:VAL:N	2.32	0.45
8:AH:41:ARG:HG2	8:AH:41:ARG:O	2.16	0.45
9:AI:118:LYS:HB3	9:AI:118:LYS:HZ3	1.80	0.45
11:AK:111:ASP:HA	18:AR:84:LYS:CG	2.42	0.45
12:AL:27:LEU:HB2	12:AL:33:ARG:HH11	1.81	0.45
13:AM:48:LEU:HD11	13:AM:53:VAL:HG22	1.98	0.45
13:AM:78:ILE:HG22	13:AM:93:ARG:HH22	1.81	0.45
15:AO:28:GLN:O	15:AO:32:LEU:HG	2.16	0.45
16:AP:49:LEU:HG	16:AP:50:LYS:N	2.32	0.45
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.54	0.45
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.17	0.45
18:AR:36:ASN:HD22	18:AR:39:VAL:HG11	1.82	0.45
22:B0:84:LEU:HD12	22:B0:84:LEU:N	2.31	0.45
27:B5:29:THR:O	27:B5:30:LEU:HD23	2.16	0.45
28:B6:34:LEU:HD22	28:B6:50:ARG:NH1	2.32	0.45
30:B8:35:GLN:CB	31:BA:2420:C:OP1	2.64	0.45
31:BA:271(T):C:C2'	31:BA:271(U):G:H5'	2.47	0.45
31:BA:272(H):C:C6	31:BA:272(H):C:OP2	2.69	0.45
31:BA:315:G:H2'	31:BA:316:C:C6	2.52	0.45
31:BA:320:A:H5''	31:BA:321:G:OP1	2.16	0.45
31:BA:389:G:H1	41:BP:71:VAL:HB	1.82	0.45
31:BA:499:U:H2'	31:BA:500:G:O4'	2.17	0.45
31:BA:665:C:H2'	31:BA:666:G:H8	1.81	0.45
31:BA:699:A:H2'	31:BA:700:G:O4'	2.16	0.45
31:BA:740:U:O4'	31:BA:1981:A:C4	2.70	0.45
31:BA:747:U:H5'	48:BW:90:ARG:NH1	2.31	0.45
31:BA:781:A:C2'	31:BA:782:A:OP2	2.65	0.45
31:BA:814:C:C2'	31:BA:815:C:H5'	2.45	0.45
31:BA:832:G:H2'	31:BA:833:U:C6	2.51	0.45
31:BA:998:C:H2'	31:BA:999:U:O4'	2.17	0.45
31:BA:1047:G:C2'	31:BA:1110:G:H22	2.29	0.45
31:BA:1176:G:H1'	31:BA:1177:A:OP1	2.16	0.45
31:BA:1192:G:O2'	31:BA:1193:G:H5'	2.16	0.45
31:BA:1330:C:C2'	31:BA:1331:A:H5'	2.46	0.45
31:BA:1337:G:O2'	31:BA:1338:G:H5'	2.16	0.45
31:BA:1354:A:H2'	31:BA:1355:G:O4'	2.17	0.45
31:BA:1374:G:H2'	31:BA:1375:C:C6	2.52	0.45
31:BA:1493:C:H5	31:BA:2206:G:O2'	1.99	0.45
31:BA:1515:G:C4	31:BA:1516:C:C5	3.05	0.45
31:BA:1661:G:H2'	31:BA:1662:C:H6	1.80	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1808:U:H2'	31:BA:1809:A:O4'	2.16	0.45
31:BA:1843:C:H2'	31:BA:1844:C:C6	2.52	0.45
31:BA:1975:G:C2	31:BA:1976:U:C2	3.04	0.45
31:BA:2063:C:C4	31:BA:2064:C:C4	3.04	0.45
31:BA:2443:C:H2'	31:BA:2444:G:H8	1.81	0.45
31:BA:2599:G:N7	33:BD:236:GLY:O	2.50	0.45
31:BA:2724:C:OP2	43:BR:2:ARG:NH2	2.49	0.45
31:BA:2817:G:H2'	31:BA:2818:G:C5'	2.45	0.45
31:BA:2894:G:N3	31:BA:2894:G:H2'	2.31	0.45
33:BD:17:THR:CG2	33:BD:205:VAL:H	2.26	0.45
35:BF:46:ARG:HH11	35:BF:46:ARG:CB	2.30	0.45
36:BG:59:GLU:OE2	36:BG:144:ILE:HD11	2.15	0.45
37:BH:70:THR:HG22	37:BH:71:LEU:N	2.31	0.45
37:BH:85:LYS:HE2	37:BH:145:ALA:HB2	1.97	0.45
41:BP:45:LEU:HD22	41:BP:46:LYS:N	2.31	0.45
41:BP:147:LEU:HB2	41:BP:148:LEU:H	1.47	0.45
50:BY:30:VAL:CG1	50:BY:31:LEU:H	2.14	0.45
50:BY:86:ARG:HD2	50:BY:88:LYS:HD2	1.99	0.45
1:CA:51:A:C2	1:CA:116:A:H1'	2.50	0.45
1:CA:198:G:N2	1:CA:199:G:C1'	2.76	0.45
1:CA:448:A:P	1:CA:485:G:H22	2.38	0.45
1:CA:458:C:C3'	1:CA:460:G:H8	2.30	0.45
1:CA:510:A:N3	1:CA:543:C:H1'	2.31	0.45
1:CA:518:C:C5	1:CA:530:G:C8	3.05	0.45
1:CA:564:C:H5'	12:CL:10:LEU:CD1	2.47	0.45
2:CB:60:ASP:O	2:CB:64:ARG:HG2	2.16	0.45
4:CD:147:ALA:HA	4:CD:182:LYS:HA	1.97	0.45
4:CD:180:GLY:O	4:CD:181:MET:C	2.55	0.45
6:CF:79:LEU:HD12	6:CF:88:VAL:HG11	1.98	0.45
8:CH:4:ASP:OD2	8:CH:85:ARG:CZ	2.64	0.45
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.79	0.45
9:CI:112:LYS:HA	9:CI:119:ALA:HA	1.97	0.45
13:CM:15:VAL:O	13:CM:19:LEU:HD23	2.16	0.45
13:CM:29:ARG:HD3	13:CM:64:TRP:CZ2	2.51	0.45
13:CM:78:ILE:HA	13:CM:81:LEU:HD12	1.98	0.45
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.16	0.45
22:D0:37:LEU:O	22:D0:38:VAL:CG2	2.64	0.45
23:D1:87:PRO:HD2	23:D1:88:LYS:HG3	1.98	0.45
24:D2:30:ARG:O	24:D2:31:GLU:C	2.55	0.45
31:DA:110:G:N2	31:DA:111:A:H1'	2.31	0.45
31:DA:192:C:H2'	31:DA:193:U:O5'	2.16	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:288:C:H2'	31:DA:289:A:O5'	2.16	0.45
31:DA:310:A:C2	31:DA:330:A:C4	3.04	0.45
31:DA:416:C:H5'	31:DA:417:C:OP2	2.16	0.45
31:DA:838:C:C2'	31:DA:839:U:H5'	2.46	0.45
31:DA:851:U:C2	31:DA:927:G:C2	3.04	0.45
31:DA:1373:A:N6	31:DA:1374:G:C2	2.84	0.45
31:DA:2029:G:C4	31:DA:2031:A:OP2	2.69	0.45
31:DA:2311:A:H4'	36:DG:77:ILE:HD11	1.99	0.45
31:DA:2639:A:C2'	31:DA:2640:G:H5'	2.46	0.45
31:DA:2816:C:O2	31:DA:2883:A:O2'	2.33	0.45
33:DD:267:SER:O	33:DD:268:ARG:HB2	2.16	0.45
36:DG:5:VAL:HG21	36:DG:101:ILE:CG2	2.46	0.45
36:DG:96:ARG:O	36:DG:98:ARG:N	2.50	0.45
38:DI:84:GLY:O	38:DI:85:GLU:CG	2.65	0.45
39:DN:19:GLU:O	39:DN:59:LYS:O	2.34	0.45
39:DN:24:GLY:HA2	39:DN:27:ALA:HB3	1.98	0.45
39:DN:71:ILE:HG22	39:DN:73:THR:H	1.81	0.45
39:DN:83:LYS:CE	39:DN:85:ILE:HD11	2.42	0.45
40:DO:107:ARG:HH11	45:DT:35:LYS:CB	2.29	0.45
43:DR:4:LEU:C	43:DR:6:SER:N	2.70	0.45
44:DS:67:ARG:C	44:DS:69:VAL:H	2.18	0.45
45:DT:28:VAL:HG21	45:DT:46:GLU:CG	2.46	0.45
45:DT:60:THR:HG22	45:DT:77:PRO:HA	1.98	0.45
45:DT:76:PHE:HA	45:DT:77:PRO:HD2	1.76	0.45
45:DT:89:VAL:HG12	45:DT:91:ARG:CG	2.46	0.45
49:DX:90:GLU:C	49:DX:92:LEU:N	2.69	0.45
50:DY:13:VAL:HG13	50:DY:72:VAL:HB	1.97	0.45
1:AA:25:C:H5'	1:AA:524:G:H1'	1.98	0.45
1:AA:195:A:H1'	1:AA:222:U:O2'	2.17	0.45
1:AA:352:C:OP1	1:AA:352:C:H6	2.00	0.45
1:AA:671:G:N3	1:AA:672:U:C6	2.85	0.45
1:AA:682:G:C2	1:AA:709:G:C6	3.04	0.45
1:AA:718:G:H5'	11:AK:117:ASN:HB2	1.98	0.45
1:AA:731:G:H5'	1:AA:766:A:H4'	1.98	0.45
1:AA:745:C:O2'	1:AA:746:A:H5'	2.16	0.45
1:AA:971:G:OP1	1:AA:971:G:H3'	2.16	0.45
1:AA:1090:U:C2	1:AA:1091:U:H5	2.35	0.45
1:AA:1352:C:O2	1:AA:1371:G:C2	2.69	0.45
5:AE:48:ALA:C	5:AE:50:GLU:H	2.20	0.45
8:AH:64:LYS:CG	8:AH:79:VAL:HG21	2.46	0.45
10:AJ:49:VAL:HG22	14:AN:41:ARG:CB	2.46	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:102:ARG:HD3	12:AL:108:ALA:O	2.15	0.45
20:AT:30:LYS:O	20:AT:30:LYS:HD2	2.17	0.45
20:AT:94:ALA:O	20:AT:95:ALA:CB	2.64	0.45
27:B5:46:CYS:O	27:B5:48:GLU:N	2.47	0.45
28:B6:45:LYS:CB	31:BA:2371:G:H4'	2.47	0.45
31:BA:304:G:C6	31:BA:305:U:C4	3.05	0.45
31:BA:443:A:N7	35:BF:45:ARG:HD2	2.31	0.45
31:BA:718:A:H3'	31:BA:719:C:C6	2.50	0.45
31:BA:896:A:N3	31:BA:898:C:H5''	2.30	0.45
31:BA:1212:G:C2	31:BA:1236:G:C4	3.05	0.45
31:BA:1313:U:H3'	31:BA:1314:C:H5'	1.99	0.45
31:BA:1412:A:H2'	31:BA:1413:G:C8	2.51	0.45
31:BA:1421:G:C2	31:BA:1422:G:C8	3.04	0.45
31:BA:1881:C:H5'	31:BA:1882:C:P	2.56	0.45
31:BA:2257:U:O2'	31:BA:2258:C:H5'	2.16	0.45
31:BA:2271:G:C6	31:BA:2272:U:C4	3.04	0.45
31:BA:2507:C:C2	31:BA:2508:G:C8	3.05	0.45
31:BA:2659:G:H1'	31:BA:2663:G:N2	2.30	0.45
31:BA:2842:G:O2'	31:BA:2843:G:H5'	2.16	0.45
32:BB:58:A:H5''	32:BB:59:A:OP2	2.15	0.45
33:BD:4:LYS:HB2	33:BD:18:VAL:HG12	1.97	0.45
33:BD:220:HIS:HD2	33:BD:221:VAL:N	2.13	0.45
36:BG:94:LEU:HD12	36:BG:99:MET:N	2.31	0.45
37:BH:85:LYS:HZ3	37:BH:145:ALA:CB	2.28	0.45
37:BH:164:TYR:C	37:BH:166:GLY:N	2.69	0.45
39:BN:3:THR:HG22	39:BN:4:TYR:N	2.30	0.45
39:BN:78:TYR:HD1	39:BN:79:PRO:CB	2.28	0.45
39:BN:121:LYS:HA	39:BN:121:LYS:HE3	1.98	0.45
41:BP:61:ARG:CD	41:BP:61:ARG:N	2.72	0.45
42:BQ:24:GLY:N	51:BZ:78:LYS:HD2	2.32	0.45
43:BR:76:VAL:O	43:BR:77:ARG:C	2.55	0.45
45:BT:28:VAL:HG13	45:BT:46:GLU:HA	1.98	0.45
46:BU:107:ALA:C	46:BU:109:LEU:N	2.70	0.45
47:BV:81:TYR:O	47:BV:81:TYR:CG	2.70	0.45
48:BW:37:ARG:HG3	48:BW:37:ARG:NH1	2.29	0.45
48:BW:37:ARG:HG2	48:BW:38:TYR:CE2	2.52	0.45
50:BY:95:LYS:HG2	50:BY:101:LYS:N	2.30	0.45
1:CA:41:G:C6	1:CA:402:G:C6	3.04	0.45
1:CA:110:C:O2'	16:CP:25:ARG:O	2.28	0.45
1:CA:131:C:O2'	1:CA:132:C:H5'	2.15	0.45
1:CA:189(E):U:O2'	1:CA:189(F):U:H5'	2.16	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:679:C:N3	1:CA:712:A:C2	2.84	0.45
1:CA:988:G:C2	1:CA:1218:C:O2	2.69	0.45
1:CA:1103:C:H2'	1:CA:1104:G:O4'	2.15	0.45
1:CA:1226:C:O2'	13:CM:111:LYS:NZ	2.49	0.45
1:CA:1346:A:H5''	9:CI:120:ARG:NH1	2.23	0.45
2:CB:8:LYS:NZ	2:CB:217:ARG:HD2	2.30	0.45
2:CB:221:LEU:HD22	2:CB:221:LEU:HA	1.80	0.45
4:CD:3:ARG:HD3	4:CD:5:ILE:CG1	2.46	0.45
4:CD:79:PHE:C	4:CD:79:PHE:HD2	2.19	0.45
8:CH:29:SER:O	8:CH:32:LYS:N	2.49	0.45
8:CH:121:ASP:OD1	8:CH:121:ASP:N	2.49	0.45
12:CL:119:LYS:C	12:CL:120:TYR:HD1	2.19	0.45
16:CP:12:LYS:C	16:CP:14:ASN:H	2.18	0.45
22:D0:29:GLN:O	22:D0:31:VAL:HG13	2.17	0.45
23:D1:46:LEU:H	23:D1:46:LEU:CD1	2.23	0.45
23:D1:92:LYS:C	23:D1:94:LEU:H	2.17	0.45
24:D2:49:LYS:O	24:D2:53:LEU:HB3	2.17	0.45
29:D7:40:TRP:CE3	31:DA:459:U:H5''	2.51	0.45
31:DA:123:G:C2'	31:DA:124:G:H5'	2.46	0.45
31:DA:286:C:C3'	31:DA:287:C:H5'	2.46	0.45
31:DA:447:A:C5	31:DA:454:A:C5	3.05	0.45
31:DA:448:U:C3'	31:DA:449:A:C5'	2.93	0.45
31:DA:470:A:H2'	31:DA:471:A:C8	2.51	0.45
31:DA:476:G:N1	31:DA:479:A:OP2	2.49	0.45
31:DA:627:A:N1	31:DA:636:G:O2'	2.42	0.45
31:DA:636:G:H4'	31:DA:638:G:O3'	2.17	0.45
31:DA:663:G:C6	31:DA:664:C:C4	3.05	0.45
31:DA:998:C:H2'	31:DA:999:U:O4'	2.17	0.45
31:DA:1002:G:C2	31:DA:1003:G:H1'	2.51	0.45
31:DA:1141:U:OP2	39:DN:63:THR:CG2	2.64	0.45
31:DA:1247:A:C5	31:DA:1249:U:C5	3.04	0.45
31:DA:1274:A:N3	31:DA:1297:C:H1'	2.32	0.45
31:DA:1294:U:C2'	31:DA:1295:C:H5'	2.45	0.45
31:DA:1354:A:H2'	31:DA:1355:G:O4'	2.16	0.45
31:DA:1356:G:H2'	31:DA:1357:U:O4'	2.16	0.45
31:DA:1363:C:H2'	31:DA:1364:G:H8	1.82	0.45
31:DA:1439:A:C2	31:DA:1553:A:C5	3.04	0.45
31:DA:1480:G:N2	31:DA:1512:U:C2	2.84	0.45
31:DA:1655:A:H3'	31:DA:1656:C:H6	1.80	0.45
31:DA:1805:U:C2	31:DA:1806:C:C5	3.05	0.45
31:DA:1814:G:H2'	31:DA:1815:A:N7	2.31	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1900:A:N1	31:DA:1970:A:C5	2.85	0.45
31:DA:2195:C:C2	31:DA:2196:C:C6	3.04	0.45
31:DA:2298:A:N6	31:DA:2318:G:H1'	2.32	0.45
31:DA:2361:A:H2'	31:DA:2362:G:O4'	2.16	0.45
31:DA:2428:G:H5''	31:DA:2429:G:O5'	2.16	0.45
31:DA:2810:A:C2'	34:DE:61:ARG:NH2	2.79	0.45
33:DD:24:ILE:CD1	33:DD:83:GLU:HA	2.47	0.45
33:DD:28:GLU:CB	33:DD:29:PRO:CD	2.94	0.45
34:DE:38:THR:CB	34:DE:41:LYS:HE3	2.46	0.45
34:DE:55:ASN:ND2	34:DE:75:VAL:HG21	2.30	0.45
34:DE:77:ILE:CG2	34:DE:79:ARG:HE	2.29	0.45
39:DN:103:VAL:HG11	39:DN:120:LEU:HD23	1.99	0.45
40:DO:111:PHE:HB3	40:DO:114:ILE:CG1	2.31	0.45
41:DP:62:LEU:N	41:DP:62:LEU:CD1	2.63	0.45
43:DR:51:LEU:CD2	43:DR:70:LEU:HD21	2.46	0.45
45:DT:51:ARG:HB2	45:DT:98:LYS:HG3	1.98	0.45
46:DU:91:ASP:CG	46:DU:96:ALA:HB2	2.36	0.45
46:DU:102:GLU:HG3	47:DV:2:PHE:HE2	1.79	0.45
49:DX:18:TYR:O	49:DX:19:ALA:C	2.54	0.45
49:DX:72:LYS:O	49:DX:73:ARG:HB3	2.16	0.45
50:DY:81:LYS:CB	50:DY:96:ILE:HG22	2.46	0.45
1:AA:502:G:C2	1:AA:503:C:C2	3.05	0.45
1:AA:620:C:O2'	1:AA:621:A:H5'	2.17	0.45
1:AA:914:A:H2'	1:AA:915:A:C8	2.52	0.45
1:AA:955:U:H2'	1:AA:956:U:H6	1.80	0.45
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.52	0.45
1:AA:1366:C:OP1	9:AI:117:HIS:CE1	2.70	0.45
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.82	0.45
2:AB:16:HIS:HA	2:AB:210:SER:HB2	1.99	0.45
2:AB:212:GLN:CD	2:AB:235:SER:HB3	2.37	0.45
4:AD:2:GLY:O	4:AD:3:ARG:C	2.54	0.45
4:AD:10:ARG:C	4:AD:11:LEU:HD23	2.37	0.45
4:AD:65:ARG:HD2	4:AD:72:GLU:HA	1.98	0.45
6:AF:82:ARG:HH11	6:AF:82:ARG:HA	1.81	0.45
7:AG:4:ARG:HD3	7:AG:5:ARG:NH1	2.31	0.45
9:AI:4:TYR:N	9:AI:4:TYR:CD1	2.84	0.45
10:AJ:49:VAL:HG22	14:AN:41:ARG:HB2	1.98	0.45
12:AL:6:THR:N	12:AL:9:GLN:HE21	2.15	0.45
13:AM:32:GLU:OE2	13:AM:64:TRP:CH2	2.68	0.45
14:AN:24:CYS:CB	14:AN:29:ARG:HB3	2.46	0.45
15:AO:56:LEU:HD21	31:BA:715:G:N3	2.30	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.98	0.45
22:B0:41:ARG:HB2	31:BA:2330:G:H1'	1.98	0.45
23:B1:41:ARG:NH2	31:BA:205:G:C6	2.84	0.45
27:B5:36:CYS:O	27:B5:38:ALA:N	2.47	0.45
31:BA:49:A:C4'	31:BA:50:U:OP2	2.65	0.45
31:BA:200:U:O2	31:BA:386:G:N2	2.50	0.45
31:BA:250:G:H2'	31:BA:251:A:C8	2.52	0.45
31:BA:310:A:C2	31:BA:330:A:C4	3.05	0.45
31:BA:389:G:H1	41:BP:71:VAL:N	2.10	0.45
31:BA:416:C:H5'	31:BA:417:C:OP2	2.16	0.45
31:BA:433:C:C4	31:BA:434:U:O4	2.69	0.45
31:BA:606:U:H4'	31:BA:658:C:H4'	1.99	0.45
31:BA:787:U:C5	31:BA:791:C:C4	3.04	0.45
31:BA:806:C:OP2	41:BP:39:LYS:CG	2.65	0.45
31:BA:879:G:H8	31:BA:879:G:O5'	1.99	0.45
31:BA:1289:C:O2	31:BA:1289:C:H2'	2.16	0.45
31:BA:1446:C:C6	31:BA:1446:C:C3'	2.99	0.45
31:BA:1515:G:H4'	31:BA:1556:C:O2'	2.17	0.45
31:BA:1577:C:H2'	31:BA:1578:U:C1'	2.46	0.45
31:BA:1778:U:O4	31:BA:1784:A:H1'	2.17	0.45
31:BA:2056:G:H2'	31:BA:2056:G:N3	2.32	0.45
31:BA:2087:G:O2'	31:BA:2088:G:H5'	2.16	0.45
31:BA:2557:G:C2'	31:BA:2558:C:H5'	2.47	0.45
31:BA:2641:G:C2'	31:BA:2642:G:H5'	2.47	0.45
31:BA:2695:C:H2'	31:BA:2696:U:C6	2.52	0.45
31:BA:2816:C:O2	31:BA:2883:A:O2'	2.34	0.45
34:BE:31:CYS:HA	34:BE:32:PRO:HD3	1.64	0.45
36:BG:31:VAL:C	36:BG:33:ARG:H	2.19	0.45
38:BI:95:LYS:O	38:BI:98:ALA:HB3	2.16	0.45
38:BI:143:SER:OG	38:BI:144:VAL:N	2.49	0.45
39:BN:42:TRP:CG	46:BU:64:ARG:NH1	2.84	0.45
39:BN:55:VAL:HG12	39:BN:126:PRO:CA	2.43	0.45
40:BO:1:MET:CE	40:BO:67:LYS:HG2	2.44	0.45
41:BP:7:ARG:HA	41:BP:7:ARG:HD2	1.59	0.45
41:BP:84:ASN:OD1	41:BP:116:GLY:HA3	2.17	0.45
42:BQ:134:ARG:HB3	42:BQ:135:ASP:H	1.47	0.45
44:BS:29:PHE:N	44:BS:89:ARG:CD	2.70	0.45
51:BZ:89:PHE:CE1	51:BZ:96:VAL:HG21	2.51	0.45
1:CA:7:G:H21	5:CE:121:LYS:HG2	1.80	0.45
1:CA:78:G:H1	1:CA:91:C:N4	2.10	0.45
1:CA:151:A:N6	1:CA:152:A:C2	2.85	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:511:C:H1'	4:CD:43:HIS:HE2	1.81	0.45
1:CA:578:C:H1'	1:CA:729:A:H1'	1.99	0.45
1:CA:600:C:OP1	8:CH:97:VAL:HG12	2.17	0.45
1:CA:806:C:H2'	1:CA:807:A:C8	2.52	0.45
1:CA:1107:C:OP1	3:CC:174:PRO:HG3	2.17	0.45
1:CA:1173:G:C5	1:CA:1174:G:N7	2.85	0.45
2:CB:22:LYS:HA	2:CB:24:TRP:HD1	1.81	0.45
2:CB:22:LYS:NZ	2:CB:24:TRP:HE1	2.15	0.45
2:CB:95:GLN:HG3	2:CB:147:LYS:O	2.17	0.45
2:CB:193:ASP:O	2:CB:194:PRO:O	2.35	0.45
4:CD:206:PHE:CE2	4:CD:207:TYR:CE2	3.05	0.45
13:CM:66:LEU:O	13:CM:70:LEU:HB2	2.17	0.45
18:CR:87:ARG:HB3	18:CR:87:ARG:NH1	2.32	0.45
20:CT:50:GLU:H	20:CT:100:ILE:HD13	1.81	0.45
27:D5:51:TYR:HB2	27:D5:54:GLY:HA3	1.98	0.45
30:D8:25:MET:C	41:DP:62:LEU:HD21	2.37	0.45
31:DA:236:C:H2'	31:DA:237:C:C6	2.51	0.45
31:DA:260:G:C2	31:DA:261:G:H1'	2.51	0.45
31:DA:272(H):C:OP2	31:DA:272(H):C:C6	2.70	0.45
31:DA:708:C:H42	31:DA:723:G:H1	1.63	0.45
31:DA:742:G:H2'	31:DA:743:G:C8	2.52	0.45
31:DA:760:G:C2'	31:DA:761:A:H5'	2.47	0.45
31:DA:980:A:C6	31:DA:981:A:C2	3.05	0.45
31:DA:1170:G:OP2	31:DA:1170:G:C8	2.69	0.45
31:DA:1224:C:H2'	31:DA:1225:G:O4'	2.17	0.45
31:DA:1301:A:H2'	31:DA:1301:A:N3	2.31	0.45
31:DA:1669:A:OP2	31:DA:1670:C:OP2	2.34	0.45
31:DA:1773:A:C5	31:DA:1829:A:H1'	2.51	0.45
31:DA:2520:C:C6	31:DA:2567:G:H1'	2.52	0.45
31:DA:2584:U:C2'	31:DA:2585:U:H5'	2.46	0.45
31:DA:2648:C:H2'	31:DA:2649:U:H6	1.82	0.45
31:DA:2659:G:N3	31:DA:2663:G:N1	2.60	0.45
31:DA:2748:A:C6	31:DA:2749:A:C5	3.04	0.45
31:DA:2886:G:N3	31:DA:2887:U:C5	2.85	0.45
32:DB:40:U:N3	32:DB:44:G:OP2	2.46	0.45
32:DB:42:C:C6	36:DG:69:ALA:HB2	2.51	0.45
32:DB:57:A:OP2	32:DB:58:A:OP2	2.34	0.45
32:DB:73:A:H2'	32:DB:73:A:N3	2.30	0.45
34:DE:34:VAL:O	34:DE:34:VAL:CG2	2.64	0.45
34:DE:170:LEU:HD21	34:DE:187:ALA:O	2.17	0.45
35:DF:84:VAL:O	35:DF:86:GLY:N	2.50	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:107:LYS:O	35:DF:108:LYS:C	2.54	0.45
36:DG:15:VAL:HG22	36:DG:175:LEU:O	2.16	0.45
38:DI:94:ALA:O	38:DI:98:ALA:CB	2.65	0.45
39:DN:34:LEU:HD13	39:DN:34:LEU:HA	1.72	0.45
39:DN:35:ARG:HB2	39:DN:42:TRP:CZ3	2.51	0.45
41:DP:8:PRO:O	41:DP:9:ASN:C	2.54	0.45
41:DP:10:PRO:CD	41:DP:11:GLY:N	2.78	0.45
41:DP:146:VAL:O	41:DP:147:LEU:O	2.34	0.45
47:DV:94:LEU:HD23	47:DV:94:LEU:C	2.37	0.45
49:DX:18:TYR:C	49:DX:20:GLY:N	2.70	0.45
49:DX:82:GLN:HG3	49:DX:85:PRO:HD2	1.93	0.45
49:DX:93:GLU:O	49:DX:93:GLU:HG3	2.17	0.45
50:DY:49:VAL:HG12	50:DY:53:PRO:HG3	1.98	0.45
1:AA:51:A:C2	1:AA:116:A:N3	2.84	0.45
1:AA:259:G:C2	1:AA:268:C:O2	2.69	0.45
1:AA:448:A:P	1:AA:485:G:H22	2.36	0.45
1:AA:448:A:N7	1:AA:486:U:O4	2.49	0.45
1:AA:453:A:C5	1:AA:454:C:C4	3.04	0.45
1:AA:477:A:C2'	1:AA:479:C:H5'	2.46	0.45
1:AA:498:U:N3	1:AA:499:A:N7	2.64	0.45
1:AA:690:G:C6	1:AA:691:G:C6	3.05	0.45
1:AA:939:G:H5''	7:AG:102:ARG:HH12	1.82	0.45
1:AA:1105:A:H2'	1:AA:1106:G:C8	2.51	0.45
1:AA:1158:C:O2	1:AA:1158:C:C2'	2.64	0.45
1:AA:1250:A:C2	1:AA:1370:G:H1'	2.52	0.45
5:AE:75:THR:OG1	5:AE:76:ILE:N	2.50	0.45
16:AP:57:ARG:NH2	16:AP:79:VAL:O	2.50	0.45
18:AR:65:ILE:HD12	18:AR:66:LEU:N	2.32	0.45
20:AT:23:ARG:O	20:AT:27:LYS:HB2	2.17	0.45
22:B0:43:THR:HG21	31:BA:2336:A:H61	1.81	0.45
28:B6:12:GLU:HB3	28:B6:23:THR:CG2	2.40	0.45
29:B7:5:TRP:HB3	31:BA:1612:C:O3'	2.16	0.45
31:BA:68:G:N2	31:BA:74:A:C4	2.84	0.45
31:BA:271(D):G:C2	31:BA:271(E):U:C2	3.04	0.45
31:BA:296:C:H2'	31:BA:297:C:C6	2.43	0.45
31:BA:455:C:N3	31:BA:472:A:H2'	2.31	0.45
31:BA:534:U:C4	31:BA:535:C:N4	2.84	0.45
31:BA:1018:C:O2	31:BA:1018:C:H2'	2.17	0.45
31:BA:1040:C:H42	31:BA:1116:C:N4	2.08	0.45
31:BA:1151:G:O3'	46:BU:81:HIS:HB2	2.17	0.45
31:BA:1268:A:C2	31:BA:2013:A:C4	3.05	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1296:G:N2	31:BA:1645:G:C4	2.84	0.45
31:BA:1397:U:HO2'	31:BA:1398:C:P	2.40	0.45
31:BA:1459:G:C4	31:BA:1461:G:C8	3.05	0.45
31:BA:1475:G:C2	31:BA:1517:G:N3	2.84	0.45
31:BA:1528(A):A:H2'	31:BA:1529:G:C4'	2.46	0.45
31:BA:1545:A:H2'	31:BA:1546:C:H5'	1.98	0.45
31:BA:1635:G:H5'	31:BA:1635:G:C8	2.52	0.45
31:BA:1788:C:C2'	31:BA:1789:A:H5'	2.47	0.45
31:BA:1849:G:N1	31:BA:1850:G:C5	2.84	0.45
31:BA:2052:G:C4	31:BA:2053:G:C8	3.04	0.45
31:BA:2199:A:C8	31:BA:2200:C:C5	3.05	0.45
31:BA:2275:C:C6	31:BA:2275:C:C5'	3.00	0.45
31:BA:2478:A:C2'	31:BA:2479:G:H5'	2.47	0.45
31:BA:2653:U:H3	31:BA:2667:C:N4	2.14	0.45
32:BB:30:C:OP2	44:BS:32:LEU:HD11	2.16	0.45
33:BD:16:MET:HE1	33:BD:208:LYS:HD2	1.99	0.45
34:BE:11:MET:O	34:BE:12:THR:HG23	2.17	0.45
34:BE:154:LYS:HE3	34:BE:154:LYS:CA	2.31	0.45
41:BP:122:PRO:HD3	25:D3:1:MET:SD	2.57	0.45
44:BS:83:LYS:HE2	44:BS:84:GLN:HE22	1.81	0.45
45:BT:83:ILE:HG13	45:BT:84:GLN:HG2	1.97	0.45
46:BU:91:ASP:OD1	46:BU:96:ALA:HB2	2.17	0.45
48:BW:42:ARG:C	48:BW:44:ALA:N	2.70	0.45
51:BZ:10:ARG:HG3	51:BZ:18:LEU:HD21	1.98	0.45
51:BZ:119:GLU:C	51:BZ:121:HIS:H	2.20	0.45
1:CA:41:G:C4	1:CA:402:G:N2	2.85	0.45
1:CA:116:A:OP2	1:CA:116:A:H8	1.98	0.45
1:CA:261:U:C5	20:CT:79:ARG:NE	2.85	0.45
1:CA:342:C:C2	1:CA:348:G:C2	3.04	0.45
1:CA:457:C:C2	1:CA:458:C:C5	3.05	0.45
1:CA:818:G:N1	1:CA:820:U:O2'	2.50	0.45
1:CA:914:A:H2'	1:CA:915:A:H8	1.82	0.45
1:CA:1358:U:H5''	14:CN:33:VAL:O	2.15	0.45
2:CB:16:HIS:HA	2:CB:210:SER:HB2	1.99	0.45
2:CB:59:GLU:O	2:CB:63:MET:HG2	2.16	0.45
3:CC:182:ILE:CG1	3:CC:203:PHE:HD1	2.29	0.45
4:CD:59:ARG:HA	4:CD:59:ARG:CZ	2.47	0.45
7:CG:75:VAL:CG2	7:CG:144:MET:HB3	2.46	0.45
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.15	0.45
12:CL:20:LYS:HD3	12:CL:20:LYS:N	2.26	0.45
13:CM:106:ASN:N	13:CM:106:ASN:OD1	2.49	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:44:LEU:HD12	14:CN:44:LEU:C	2.36	0.45
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.51	0.45
22:D0:34:GLY:O	22:D0:35:ASN:C	2.55	0.45
22:D0:40:GLN:NE2	22:D0:45:PHE:H	2.15	0.45
23:D1:47:GLN:HG3	31:DA:398:G:OP1	2.16	0.45
31:DA:26:G:N1	31:DA:27:G:N2	2.65	0.45
31:DA:28:A:O2'	31:DA:583:G:H5'	2.16	0.45
31:DA:140:G:N3	31:DA:142:A:N1	2.65	0.45
31:DA:256:A:C2	31:DA:257:A:C4	3.05	0.45
31:DA:338:G:H2'	31:DA:339:U:C6	2.51	0.45
31:DA:483:A:H2'	31:DA:484:C:H5'	1.97	0.45
31:DA:612:C:H2'	31:DA:613:G:O4'	2.16	0.45
31:DA:672:C:H2'	31:DA:673:C:C6	2.52	0.45
31:DA:776:G:C8	31:DA:793:A:N3	2.85	0.45
31:DA:1042:G:H3'	31:DA:1043:C:O4'	2.17	0.45
31:DA:1187:G:H8	31:DA:1187:G:O5'	1.99	0.45
31:DA:1300:U:H3'	31:DA:1301:A:C5'	2.46	0.45
31:DA:1412:A:C8	31:DA:1412:A:O5'	2.70	0.45
31:DA:1444:G:H2'	31:DA:1445(A):C:C5	2.51	0.45
31:DA:1577:C:H2'	31:DA:1578:U:C1'	2.47	0.45
31:DA:1593:G:C6	31:DA:1594:G:C6	3.05	0.45
31:DA:1691:C:O2	31:DA:1691:C:H2'	2.16	0.45
31:DA:1949:G:C2	31:DA:1958:C:C2	3.04	0.45
31:DA:1995:U:C2	31:DA:1996:C:C5	3.05	0.45
31:DA:2059:A:H5''	31:DA:2060:A:OP2	2.16	0.45
31:DA:2090:G:C6	31:DA:2091:U:C4	3.03	0.45
31:DA:2308:G:N2	31:DA:2309:A:C6	2.85	0.45
31:DA:2524:G:H5'	31:DA:2524:G:C8	2.36	0.45
31:DA:2532:G:C6	31:DA:2533:A:C6	3.04	0.45
31:DA:2596:U:H2'	31:DA:2597:G:C5'	2.47	0.45
31:DA:2599:G:N7	33:DD:236:GLY:O	2.50	0.45
31:DA:2633:G:H5'	31:DA:2811:G:O2'	2.17	0.45
31:DA:2659:G:H1'	31:DA:2663:G:N2	2.30	0.45
31:DA:2894:G:H2'	31:DA:2894:G:N3	2.30	0.45
32:DB:45:A:C2	32:DB:46:A:O4'	2.69	0.45
32:DB:46:A:C4	32:DB:47:C:C6	3.04	0.45
33:DD:73:VAL:O	33:DD:75:ILE:N	2.50	0.45
33:DD:159:ALA:C	33:DD:161:THR:N	2.70	0.45
33:DD:221:VAL:HG22	33:DD:226:MET:HE2	1.99	0.45
33:DD:255:LYS:H	33:DD:255:LYS:CE	2.30	0.45
36:DG:60:LEU:HD12	36:DG:68:PRO:HD3	1.97	0.45

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:94:LEU:HD12	36:DG:99:MET:N	2.31	0.45
38:DI:113:ARG:HB2	38:DI:130:TYR:CE1	2.50	0.45
42:DQ:78:PRO:O	42:DQ:79:LEU:CB	2.64	0.45
43:DR:8:ARG:NE	43:DR:8:ARG:CA	2.79	0.45
43:DR:77:ARG:O	43:DR:78:LYS:C	2.55	0.45
47:DV:28:GLU:CB	47:DV:29:PRO:HD3	2.33	0.45
47:DV:85:LYS:C	47:DV:87:HIS:H	2.13	0.45
47:DV:93:GLU:O	47:DV:94:LEU:HB2	2.16	0.45
48:DW:8:ARG:HB3	48:DW:9:TYR:CD1	2.51	0.45
49:DX:78:LYS:O	49:DX:78:LYS:HE2	2.16	0.45
51:DZ:5:LEU:HD22	51:DZ:6:LYS:H	1.82	0.45
51:DZ:98:MET:HE3	51:DZ:99:TYR:O	2.16	0.45
51:DZ:151:HIS:CD2	51:DZ:170:THR:HG22	2.52	0.45
1:AA:60:A:C4'	1:AA:61:G:O5'	2.64	0.45
1:AA:70:G:H2'	1:AA:71:C:C6	2.52	0.45
1:AA:124:G:C5	1:AA:125:U:C4	3.05	0.45
1:AA:324:G:H8	1:AA:324:G:O5'	2.00	0.45
1:AA:405:U:H5''	1:AA:406:G:O4'	2.17	0.45
1:AA:564:C:H5'	12:AL:10:LEU:HD12	1.98	0.45
1:AA:567:G:C2	1:AA:568:G:H1'	2.51	0.45
1:AA:607:A:C2'	1:AA:608:A:H5'	2.47	0.45
1:AA:772:U:H3'	1:AA:772:U:H6	1.81	0.45
1:AA:774:G:C2	1:AA:806:C:N3	2.85	0.45
1:AA:802:A:H2'	1:AA:803:G:O4'	2.17	0.45
1:AA:938:A:C6	1:AA:939:G:C5	3.04	0.45
1:AA:961:U:O2'	1:AA:962:C:H5'	2.17	0.45
1:AA:1075:C:O5'	1:AA:1075:C:H6	2.00	0.45
1:AA:1095:U:H2'	1:AA:1096:C:H6	1.81	0.45
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.81	0.45
1:AA:1151:A:O2'	1:AA:1152:A:C8	2.69	0.45
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	1.98	0.45
3:AC:138:VAL:CG2	3:AC:151:VAL:HG23	2.46	0.45
4:AD:13:ARG:O	4:AD:15:GLU:N	2.50	0.45
4:AD:173:TRP:HZ3	4:AD:193:ASP:HB3	1.79	0.45
6:AF:15:ASP:O	6:AF:17:SER:N	2.50	0.45
8:AH:25:ASP:HA	8:AH:59:LEU:O	2.17	0.45
9:AI:26:VAL:HA	9:AI:61:ALA:O	2.17	0.45
15:AO:69:TYR:HD1	15:AO:72:ARG:HH22	1.64	0.45
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CZ	2.52	0.45
17:AQ:60:ILE:HG23	17:AQ:62:SER:HG	1.80	0.45
23:B1:20:ARG:HH21	23:B1:20:ARG:CG	2.25	0.45

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:40:ARG:HD3	23:B1:41:ARG:N	2.32	0.45
23:B1:73:LEU:HD21	23:B1:94:LEU:HG	1.98	0.45
24:B2:49:LYS:O	24:B2:50:ILE:C	2.55	0.45
27:B5:36:CYS:C	27:B5:38:ALA:N	2.70	0.45
29:B7:8:ASN:ND2	29:B7:11:LYS:H	2.15	0.45
30:B8:8:LYS:CE	31:BA:243:U:OP2	2.64	0.45
30:B8:30:ARG:HD3	30:B8:30:ARG:C	2.37	0.45
31:BA:774:A:H2	31:BA:787:U:HO2'	0.72	0.45
31:BA:790:C:O2'	31:BA:791:C:H5''	2.17	0.45
31:BA:802:A:H2'	31:BA:803:U:C6	2.52	0.45
31:BA:1459:G:N3	31:BA:1459:G:O5'	2.49	0.45
31:BA:1622:G:C2	31:BA:1623:G:C8	3.05	0.45
31:BA:1813:G:H4'	33:BD:44:ASN:O	2.17	0.45
31:BA:1862:G:O2'	31:BA:1863:G:H5'	2.17	0.45
31:BA:2061:G:H5''	31:BA:2503:A:C2	2.52	0.45
31:BA:2080:G:C2	31:BA:2241:A:C4	3.04	0.45
31:BA:2286:A:HO2'	31:BA:2286:A:H8	1.55	0.45
31:BA:2409:G:H2'	31:BA:2410:G:O4'	2.17	0.45
31:BA:2485:G:O2'	31:BA:2486:G:H5'	2.17	0.45
31:BA:2547:U:O2'	31:BA:2548:G:H5'	2.16	0.45
31:BA:2720:U:O2	31:BA:2720:U:C2'	2.61	0.45
33:BD:182:LEU:HD22	33:BD:182:LEU:HA	1.61	0.45
34:BE:23:VAL:HA	34:BE:184:VAL:O	2.17	0.45
35:BF:31:HIS:CB	41:BP:13:ASN:HD22	2.30	0.45
36:BG:71:THR:HB	36:BG:89:GLY:N	2.32	0.45
37:BH:92:ILE:CG2	37:BH:93:GLY:H	2.27	0.45
37:BH:156:ALA:O	37:BH:157:TYR:C	2.53	0.45
38:BI:35:LEU:O	38:BI:36:ALA:HB2	2.16	0.45
38:BI:50:ARG:O	38:BI:54:GLN:CB	2.61	0.45
38:BI:94:ALA:O	38:BI:98:ALA:CB	2.65	0.45
40:BO:23:ARG:HD3	40:BO:23:ARG:HA	1.66	0.45
40:BO:55:GLY:O	40:BO:56:ASP:C	2.55	0.45
41:BP:21:ARG:CG	41:BP:21:ARG:O	2.63	0.45
45:BT:51:ARG:HD3	45:BT:62:THR:HG23	1.98	0.45
47:BV:40:LEU:C	47:BV:40:LEU:CD1	2.85	0.45
47:BV:61:VAL:O	47:BV:99:ILE:HB	2.17	0.45
48:BW:13:SER:O	48:BW:16:LYS:HB2	2.17	0.45
1:CA:27:G:H2'	1:CA:28:G:C8	2.51	0.45
1:CA:34:C:H2'	1:CA:35:G:H8	1.81	0.45
1:CA:65:U:C4	1:CA:381:C:N3	2.84	0.45
1:CA:66:G:N3	1:CA:66:G:H2'	2.31	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:159:G:O2'	1:CA:161:A:N7	2.49	0.45
1:CA:241:C:H2'	1:CA:242:C:H6	1.82	0.45
1:CA:355:C:H5'	1:CA:389:A:OP2	2.17	0.45
1:CA:369:C:O2'	1:CA:370:C:H5'	2.16	0.45
1:CA:443:C:C2	1:CA:444:C:C5	3.05	0.45
1:CA:1202:G:O2'	14:CN:27:CYS:HB2	2.16	0.45
2:CB:11:LEU:O	2:CB:16:HIS:ND1	2.50	0.45
7:CG:79:ARG:NE	7:CG:84:ASN:ND2	2.61	0.45
12:CL:25:PRO:C	12:CL:27:LEU:N	2.70	0.45
13:CM:29:ARG:HD3	13:CM:64:TRP:CH2	2.52	0.45
16:CP:10:GLY:O	16:CP:11:SER:O	2.34	0.45
20:CT:31:SER:HA	20:CT:34:LYS:HD2	1.98	0.45
24:D2:41:ILE:HG12	31:DA:94(A):G:N2	2.32	0.45
30:D8:32:LEU:O	30:D8:33:ASN:HB2	2.16	0.45
31:DA:79:G:C5	31:DA:80:G:N7	2.85	0.45
31:DA:175:G:C2	31:DA:176:G:C4	3.05	0.45
31:DA:301:G:C6	31:DA:317:G:C6	3.04	0.45
31:DA:335:C:H2'	31:DA:336:C:H6	1.81	0.45
31:DA:357:A:C2	31:DA:358:U:C2	3.03	0.45
31:DA:358:U:C5	31:DA:359:A:N7	2.85	0.45
31:DA:778:G:C5	31:DA:779:U:C5	3.05	0.45
31:DA:828:U:O2	31:DA:828:U:C2'	2.65	0.45
31:DA:902:C:H2'	31:DA:903:C:C6	2.52	0.45
31:DA:910:A:C2'	31:DA:2264:C:O2'	2.65	0.45
31:DA:963:U:O2'	31:DA:964:C:H5'	2.16	0.45
31:DA:1412:A:H8	31:DA:1412:A:O5'	1.99	0.45
31:DA:1500:G:C5	31:DA:1501:C:C4	3.04	0.45
31:DA:1568:G:OP1	33:DD:63:ARG:NH2	2.50	0.45
31:DA:1952:A:N3	40:DO:22:ILE:HG13	2.32	0.45
31:DA:1991:U:C2'	31:DA:1992:G:H5''	2.47	0.45
31:DA:2056:G:N3	31:DA:2056:G:H2'	2.32	0.45
31:DA:2078:C:H2'	31:DA:2079:U:H6	1.81	0.45
31:DA:2303:G:H4'	36:DG:124:SER:O	2.16	0.45
31:DA:2581:G:H4'	31:DA:2582:G:C8	2.52	0.45
31:DA:2619:C:H4'	34:DE:151:TYR:O	2.17	0.45
31:DA:2693:A:H2'	31:DA:2694:G:H8	1.82	0.45
31:DA:2789:C:H4'	31:DA:2789:C:OP1	2.16	0.45
31:DA:2809:A:O2'	31:DA:2810:A:H5'	2.17	0.45
31:DA:2839:G:H5'	43:DR:46:GLY:CA	2.47	0.45
32:DB:13:A:O2'	32:DB:15:A:O5'	2.35	0.45
33:DD:35:LYS:CE	33:DD:104:TYR:CD1	2.99	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:222:ARG:O	33:DD:223:GLY:C	2.53	0.45
34:DE:31:CYS:HA	34:DE:32:PRO:HD3	1.61	0.45
34:DE:48:GLN:HE22	34:DE:64:LYS:HZ2	1.59	0.45
39:DN:55:VAL:CG1	39:DN:126:PRO:HA	2.40	0.45
39:DN:78:TYR:HD1	39:DN:79:PRO:CG	2.30	0.45
40:DO:2:ILE:HD11	40:DO:82:ASN:CB	2.46	0.45
40:DO:98:VAL:HG12	40:DO:117:LEU:HB3	1.99	0.45
41:DP:143:GLY:CA	41:DP:145:PRO:HD3	2.45	0.45
42:DQ:42:ILE:CD1	42:DQ:97:VAL:HB	2.45	0.45
44:DS:89:ARG:CB	44:DS:92:TYR:HB3	2.44	0.45
44:DS:102:ALA:O	44:DS:104:GLY:N	2.49	0.45
45:DT:24:PRO:CA	45:DT:49:VAL:HG13	2.46	0.45
47:DV:25:LEU:CG	47:DV:94:LEU:HD13	2.46	0.45
47:DV:32:THR:HB	47:DV:64:HIS:CE1	2.52	0.45
47:DV:51:VAL:CG1	47:DV:52:VAL:N	2.78	0.45
49:DX:47:PHE:O	49:DX:49:VAL:HG22	2.16	0.45
51:DZ:89:PHE:CE1	51:DZ:96:VAL:HG21	2.52	0.45
51:DZ:98:MET:O	51:DZ:125:LEU:HA	2.17	0.45
1:AA:16:A:N1	1:AA:919:A:C2	2.85	0.45
1:AA:131:C:O2'	1:AA:132:C:H5'	2.17	0.45
1:AA:256:U:H2'	1:AA:257:G:C8	2.51	0.45
1:AA:276:G:C5	1:AA:277:C:C5	3.05	0.45
1:AA:436:C:O2'	1:AA:437:U:P	2.75	0.45
1:AA:458:C:C3'	1:AA:460:G:H8	2.29	0.45
1:AA:521:G:O6	1:AA:529:G:C2	2.70	0.45
1:AA:542:G:N3	1:AA:543:C:C6	2.84	0.45
1:AA:654:G:C5	1:AA:655:A:C8	3.05	0.45
1:AA:748:C:O2	1:AA:749:C:H5	1.99	0.45
1:AA:1091:U:O2	1:AA:1093:A:C8	2.70	0.45
1:AA:1190:G:H3'	3:AC:3:ASN:HD21	1.82	0.45
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.81	0.45
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.16	0.45
4:AD:171:GLY:HA2	4:AD:172:PRO:HD3	1.68	0.45
9:AI:61:ALA:HB1	9:AI:63:ILE:HD11	1.98	0.45
9:AI:65:VAL:HG22	9:AI:66:ARG:N	2.31	0.45
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.99	0.45
10:AJ:49:VAL:HG21	14:AN:44:LEU:HD23	1.99	0.45
11:AK:29:ILE:HG13	11:AK:43:SER:C	2.37	0.45
15:AO:30:ALA:HA	15:AO:85:LEU:HD11	1.99	0.45
16:AP:8:ARG:C	16:AP:9:PHE:CD2	2.91	0.45
18:AR:62:GLU:O	18:AR:65:ILE:HG13	2.15	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:16:HIS:O	20:AT:19:SER:HB3	2.17	0.45
23:B1:87:PRO:CG	23:B1:88:LYS:N	2.78	0.45
24:B2:41:ILE:O	24:B2:43:GLN:N	2.48	0.45
31:BA:53:A:H2'	31:BA:54:G:O4'	2.16	0.45
31:BA:142:A:H3'	31:BA:142(A):C:H5'	1.98	0.45
31:BA:665:C:H2'	31:BA:666:G:C8	2.51	0.45
31:BA:675:A:C8	31:BA:804:A:N1	2.85	0.45
31:BA:696:G:H2'	31:BA:697:C:H6	1.82	0.45
31:BA:866:A:O2'	31:BA:867:C:H5'	2.17	0.45
31:BA:1313:U:C2'	31:BA:1313:U:O2	2.63	0.45
31:BA:1699:G:H4'	31:BA:1700:A:OP2	2.17	0.45
31:BA:1885:A:C5'	31:BA:1886:C:OP2	2.65	0.45
31:BA:2476:A:C2	31:BA:2477:C:H5''	2.51	0.45
33:BD:61:LEU:O	33:BD:63:ARG:NH1	2.49	0.45
33:BD:89:SER:HB2	33:BD:158:ALA:O	2.17	0.45
33:BD:91:ARG:HH11	33:BD:91:ARG:CG	2.19	0.45
34:BE:6:GLY:HA2	34:BE:51:PHE:CZ	2.52	0.45
34:BE:132:HIS:HD2	34:BE:135:HIS:HE1	1.57	0.45
36:BG:48:GLU:O	36:BG:49:ASP:CB	2.65	0.45
36:BG:133:LEU:HD12	36:BG:157:ILE:HG12	1.98	0.45
38:BI:33:ARG:HB2	38:BI:35:LEU:HG	1.98	0.45
39:BN:13:TRP:C	39:BN:135:PRO:HG2	2.37	0.45
39:BN:42:TRP:CD1	46:BU:64:ARG:NH1	2.85	0.45
39:BN:58:ASP:OD2	39:BN:59:LYS:HE3	2.16	0.45
41:BP:27:HIS:CD2	41:BP:28:GLY:N	2.85	0.45
41:BP:77:ARG:HE	41:BP:77:ARG:HB3	1.63	0.45
42:BQ:10:ARG:HB3	42:BQ:73:PRO:HG2	1.99	0.45
42:BQ:118:LEU:HD23	42:BQ:118:LEU:HA	1.76	0.45
47:BV:66:ARG:HE	47:BV:94:LEU:HD11	1.82	0.45
48:BW:55:ALA:O	48:BW:58:ALA:HB3	2.17	0.45
51:BZ:98:MET:O	51:BZ:125:LEU:HA	2.15	0.45
1:CA:64:G:OP1	1:CA:64:G:H3'	2.17	0.45
1:CA:233:C:C5	1:CA:234:C:H5	2.35	0.45
1:CA:734:G:C6	1:CA:735:C:C4	3.05	0.45
5:CE:100:VAL:O	5:CE:107:ARG:NH2	2.50	0.45
5:CE:105:VAL:HG21	5:CE:128:PRO:HA	1.98	0.45
7:CG:50:ILE:HD12	7:CG:61:VAL:HG11	1.98	0.45
9:CI:18:PHE:HD1	9:CI:62:TYR:HD2	1.65	0.45
10:CJ:16:LEU:CD1	10:CJ:70:ARG:HE	2.28	0.45
11:CK:66:LEU:HD21	11:CK:101:SER:HA	1.98	0.45
13:CM:14:ARG:H	13:CM:14:ARG:HG2	1.59	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:78:ILE:HG22	13:CM:93:ARG:HH22	1.82	0.45
20:CT:63:ILE:HD13	20:CT:80:ARG:HB2	1.99	0.45
24:D2:21:LEU:HD13	24:D2:50:ILE:HG22	1.99	0.45
28:D6:13:CYS:SG	28:D6:22:ALA:HB3	2.57	0.45
31:DA:58:G:H1	31:DA:69:C:N4	2.15	0.45
31:DA:143:G:H2'	31:DA:143(A):C:C6	2.52	0.45
31:DA:221:A:C4	31:DA:266:G:N7	2.84	0.45
31:DA:245:G:C4	31:DA:246:C:C5	3.05	0.45
31:DA:269:U:O2	31:DA:269:U:C2'	2.64	0.45
31:DA:271(F):C:O2'	31:DA:271(G):C:H5'	2.17	0.45
31:DA:414:C:H2'	31:DA:415:A:H8	1.82	0.45
31:DA:496:G:C2	31:DA:497:A:H1'	2.52	0.45
31:DA:501:A:N6	31:DA:502:A:C6	2.84	0.45
31:DA:570:G:H2'	31:DA:2030:A:C5	2.52	0.45
31:DA:659:C:H1'	35:DF:102:PRO:CD	2.47	0.45
31:DA:822:U:O2'	31:DA:823:G:H5'	2.17	0.45
31:DA:836:G:C4	31:DA:837:C:C5	3.05	0.45
31:DA:856:C:H3'	31:DA:857:C:C6	2.52	0.45
31:DA:912:C:N3	31:DA:913:U:C5	2.85	0.45
31:DA:1014:U:H2'	31:DA:1015:G:O4'	2.16	0.45
31:DA:1380:G:N2	31:DA:1570:A:C2	2.84	0.45
31:DA:1394:U:H3'	31:DA:1394:U:C6	2.52	0.45
31:DA:1668:A:O4'	31:DA:1669:A:C2	2.70	0.45
31:DA:1856:G:C2	31:DA:1887:C:N3	2.85	0.45
31:DA:2081:C:H2'	31:DA:2082:A:H8	1.81	0.45
31:DA:2380:C:C2'	31:DA:2381:C:H5'	2.47	0.45
31:DA:2584:U:O2	31:DA:2584:U:O5'	2.35	0.45
31:DA:2680:C:N4	31:DA:2681:C:H42	2.15	0.45
31:DA:2784:C:H2'	31:DA:2785:C:C6	2.51	0.45
33:DD:44:ASN:HB3	33:DD:49:ILE:N	2.32	0.45
34:DE:61:ARG:N	34:DE:62:PRO:CD	2.79	0.45
35:DF:7:TYR:HB3	35:DF:16:GLY:C	2.38	0.45
36:DG:88:ILE:CG2	36:DG:89:GLY:N	2.79	0.45
38:DI:140:LEU:HG	38:DI:142:VAL:HG22	1.99	0.45
39:DN:72:TYR:O	39:DN:73:THR:C	2.54	0.45
41:DP:84:ASN:HA	41:DP:115:LEU:HD12	1.98	0.45
41:DP:105:LEU:O	41:DP:106:LEU:HB2	2.17	0.45
46:DU:101:ARG:O	46:DU:102:GLU:C	2.55	0.45
48:DW:20:VAL:CG2	48:DW:47:VAL:HG21	2.47	0.45
50:DY:42:VAL:HG23	50:DY:67:LEU:HD13	1.99	0.45
50:DY:47:LYS:HA	50:DY:60:PHE:CZ	2.52	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:50:GLN:O	51:DZ:51:ALA:C	2.54	0.45
1:AA:411:A:OP2	4:AD:25:ARG:NH2	2.49	0.45
1:AA:434:U:N3	1:AA:435:C:C4	2.85	0.45
1:AA:597:G:C8	1:AA:598:U:C5	3.04	0.45
1:AA:676:A:N1	1:AA:715:A:N1	2.65	0.45
1:AA:693:G:H2'	1:AA:694:A:C8	2.52	0.45
1:AA:861:G:O5'	1:AA:861:G:H8	1.99	0.45
1:AA:1054:C:OP1	1:AA:1197:G:OP2	2.35	0.45
1:AA:1058:G:C6	1:AA:1059:C:C4	3.05	0.45
1:AA:1089:G:C2	1:AA:1090:U:C2	3.05	0.45
1:AA:1386:G:N3	1:AA:1387:G:C8	2.85	0.45
1:AA:1480:G:C6	1:AA:1481:U:N3	2.85	0.45
1:AA:1503:A:O2'	1:AA:1504:G:H5''	2.17	0.45
1:AA:1507:A:C8	1:AA:1530:G:N2	2.85	0.45
2:AB:87:ARG:HH21	2:AB:233:SER:HB3	1.81	0.45
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.47	0.45
2:AB:180:LEU:O	2:AB:181:PHE:CB	2.63	0.45
3:AC:134:ILE:HD12	3:AC:151:VAL:CG1	2.45	0.45
4:AD:58:LEU:HD23	4:AD:206:PHE:CZ	2.52	0.45
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.98	0.45
6:AF:50:TYR:CZ	18:AR:77:GLY:HA2	2.52	0.45
7:AG:79:ARG:NE	7:AG:84:ASN:ND2	2.59	0.45
8:AH:112:LEU:CB	8:AH:133:LEU:HA	2.47	0.45
9:AI:114:TYR:HD2	9:AI:114:TYR:H	1.58	0.45
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	2.17	0.45
11:AK:83:ILE:HG12	11:AK:109:VAL:HB	1.99	0.45
12:AL:123:LYS:H	12:AL:123:LYS:HG2	1.56	0.45
15:AO:40:SER:HA	31:BA:715:G:N2	2.32	0.45
20:AT:95:ALA:O	20:AT:96:GLY:C	2.55	0.45
31:BA:483:A:C8	31:BA:484:C:C5	3.04	0.45
31:BA:847:U:OP2	31:BA:928:G:O6	2.33	0.45
31:BA:866:A:C6	31:BA:914:C:C5	3.05	0.45
31:BA:1131:G:OP2	31:BA:2515:C:H4'	2.16	0.45
31:BA:1163:G:C2'	31:BA:1164:G:H5'	2.46	0.45
31:BA:1486:A:N6	31:BA:1504:C:H42	2.15	0.45
31:BA:1517:G:H2'	31:BA:1518:U:O4'	2.16	0.45
31:BA:1652:A:C3'	31:BA:1653:G:H5'	2.47	0.45
31:BA:1784:A:H4'	31:BA:1785:A:H5''	1.98	0.45
31:BA:2206:G:N3	31:BA:2207:G:H5'	2.32	0.45
31:BA:2207:G:H2'	31:BA:2207:G:N3	2.31	0.45
31:BA:2397:G:C5	31:BA:2398:U:C5	3.05	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2865:U:C4	31:BA:2866:U:C4	3.04	0.45
32:BB:118:G:H2'	32:BB:118:G:N3	2.32	0.45
33:BD:11:PRO:O	33:BD:12:SER:OG	2.29	0.45
33:BD:136:ILE:CG2	33:BD:140:THR:OG1	2.65	0.45
34:BE:8:LYS:NZ	34:BE:188:VAL:O	2.44	0.45
34:BE:38:THR:HB	34:BE:41:LYS:HE3	1.97	0.45
37:BH:19:VAL:HB	37:BH:44:VAL:HG13	1.98	0.45
38:BI:7:GLU:H	38:BI:7:GLU:CD	2.20	0.45
39:BN:35:ARG:NH2	39:BN:42:TRP:HH2	2.14	0.45
39:BN:128:HIS:N	39:BN:129:PRO:CD	2.80	0.45
42:BQ:14:ARG:CG	42:BQ:41:TRP:HH2	2.29	0.45
42:BQ:141:GLN:CD	51:BZ:70:LEU:HB2	2.36	0.45
44:BS:13:ARG:O	44:BS:15:ARG:N	2.50	0.45
44:BS:88:ASP:OD2	44:BS:89:ARG:N	2.47	0.45
45:BT:28:VAL:CG2	45:BT:46:GLU:CG	2.94	0.45
47:BV:28:GLU:CB	47:BV:29:PRO:HD3	2.31	0.45
47:BV:38:LEU:HG	47:BV:39:LEU:H	1.81	0.45
50:BY:42:VAL:HG23	50:BY:67:LEU:HD13	1.98	0.45
50:BY:92:ASN:ND2	50:BY:93:GLY:H	2.15	0.45
51:BZ:108:PRO:HA	51:BZ:142:SER:O	2.16	0.45
1:CA:70:G:H2'	1:CA:71:C:C6	2.52	0.45
1:CA:355:C:N3	1:CA:356:A:N7	2.65	0.45
1:CA:405:U:H5''	1:CA:406:G:O4'	2.17	0.45
1:CA:509:A:H2'	1:CA:510:A:N7	2.32	0.45
1:CA:567:G:C2	1:CA:568:G:H1'	2.52	0.45
1:CA:592:G:H1	1:CA:647:C:N4	2.11	0.45
1:CA:806:C:H2'	1:CA:807:A:H8	1.81	0.45
1:CA:811:C:C4'	1:CA:900:A:N6	2.79	0.45
1:CA:875:C:C3'	1:CA:876:G:H5''	2.46	0.45
1:CA:976:G:C5'	1:CA:1358:U:O2'	2.59	0.45
1:CA:1266:G:N2	1:CA:1270:C:C2	2.85	0.45
1:CA:1287:A:N3	1:CA:1353:G:H1'	2.31	0.45
2:CB:22:LYS:H	2:CB:40:HIS:CE1	2.35	0.45
2:CB:67:THR:HG21	2:CB:155:LEU:CD2	2.46	0.45
2:CB:158:LEU:HD12	2:CB:158:LEU:N	2.30	0.45
2:CB:235:SER:O	2:CB:239:VAL:CG2	2.65	0.45
5:CE:110:LEU:HD12	5:CE:118:ILE:HG21	1.99	0.45
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.51	0.45
7:CG:37:ASN:ND2	9:CI:40:LEU:HD22	2.31	0.45
11:CK:99:GLN:OE1	11:CK:105:VAL:HG11	2.17	0.45
17:CQ:26:GLN:O	17:CQ:27:PHE:HB3	2.17	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:23:ARG:O	20:CT:27:LYS:HB2	2.17	0.45
24:D2:32:LEU:HD13	24:D2:32:LEU:HA	1.84	0.45
30:D8:18:ALA:HB2	31:DA:628:G:O3'	2.17	0.45
30:D8:26:LYS:CB	30:D8:44:LYS:HG3	2.47	0.45
30:D8:34:TRP:CZ3	30:D8:41:ILE:HG23	2.48	0.45
31:DA:11:G:H2'	31:DA:12:U:O4'	2.16	0.45
31:DA:80:G:N2	31:DA:81:G:H1'	2.32	0.45
31:DA:298:G:H5''	31:DA:299:A:OP1	2.17	0.45
31:DA:409:C:O2'	31:DA:410:G:H5'	2.16	0.45
31:DA:437:G:H2'	31:DA:438:G:O4'	2.17	0.45
31:DA:602:G:N2	31:DA:656:G:C5	2.85	0.45
31:DA:817:C:C2	31:DA:818:G:C8	3.04	0.45
31:DA:821:A:H5''	31:DA:822:U:O5'	2.16	0.45
31:DA:958:U:OP2	42:DQ:14:ARG:NH1	2.50	0.45
31:DA:1022:G:C5	31:DA:1140:C:N4	2.85	0.45
31:DA:1163:G:C2'	31:DA:1164:G:H5'	2.46	0.45
31:DA:1275:A:N3	31:DA:1276:A:H1'	2.32	0.45
31:DA:1404:C:OP1	31:DA:1404:C:H4'	2.17	0.45
31:DA:1773:A:N7	31:DA:1829:A:H1'	2.32	0.45
31:DA:1789:A:H2'	31:DA:1790:C:O4'	2.17	0.45
31:DA:1820:U:C4'	31:DA:1821:A:OP2	2.55	0.45
31:DA:2019:A:H8	31:DA:2019:A:O5'	2.00	0.45
31:DA:2298:A:H2'	31:DA:2299:G:O4'	2.17	0.45
31:DA:2338:G:O2'	31:DA:2339:G:H5'	2.16	0.45
31:DA:2360:A:HO2'	31:DA:2361:A:P	2.26	0.45
31:DA:2469:A:C2	31:DA:2470:G:C5	3.05	0.45
31:DA:2615:U:H2'	31:DA:2616:C:H6	1.80	0.45
31:DA:2660:A:N3	31:DA:2660:A:C3'	2.75	0.45
31:DA:2681:C:C5	31:DA:2725:A:N6	2.67	0.45
31:DA:2748:A:N6	31:DA:2749:A:C6	2.85	0.45
34:DE:7:VAL:HA	34:DE:194:GLY:O	2.17	0.45
34:DE:55:ASN:O	34:DE:57:LYS:N	2.50	0.45
36:DG:7:LEU:HB3	36:DG:100:TRP:CZ3	2.51	0.45
38:DI:77:LEU:HD23	38:DI:77:LEU:HA	1.62	0.45
42:DQ:10:ARG:CZ	42:DQ:10:ARG:HB2	2.47	0.45
42:DQ:112:GLU:H	42:DQ:112:GLU:HG2	1.44	0.45
43:DR:111:LEU:HD23	43:DR:111:LEU:HA	1.77	0.45
47:DV:23:GLU:O	47:DV:24:LYS:C	2.55	0.45
51:DZ:100:VAL:HG21	51:DZ:134:PRO:HG2	1.99	0.45
1:AA:32:A:C3'	1:AA:33:A:H8	2.30	0.45
1:AA:67:C:H1'	1:AA:171:A:C2	2.52	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:284:G:H2'	1:AA:285:G:H8	1.79	0.45
1:AA:336:C:H2'	1:AA:337:C:H6	1.82	0.45
1:AA:342:C:C2	1:AA:348:G:N2	2.85	0.45
1:AA:681:C:C2	1:AA:710:G:N2	2.85	0.45
1:AA:722:A:O3'	1:AA:723:U:C6	2.70	0.45
1:AA:1358:U:H5''	14:AN:33:VAL:O	2.16	0.45
1:AA:1496:C:O4'	31:BA:1919:A:C2	2.69	0.45
2:AB:87:ARG:CZ	2:AB:233:SER:HB3	2.47	0.45
4:AD:106:TYR:CE1	4:AD:113:SER:HA	2.52	0.45
5:AE:19:MET:O	5:AE:20:GLN:CB	2.64	0.45
6:AF:49:ALA:HB1	18:AR:80:PRO:HA	1.98	0.45
12:AL:69:TYR:CG	12:AL:70:ILE:N	2.85	0.45
13:AM:29:ARG:HD3	13:AM:64:TRP:CZ2	2.52	0.45
17:AQ:52:LYS:HD2	17:AQ:52:LYS:N	2.32	0.45
28:B6:28:ARG:HA	28:B6:32:ASN:HB3	1.99	0.45
30:B8:61:LEU:CD1	31:BA:593:G:O2'	2.65	0.45
31:BA:38:A:C5	31:BA:39:C:C4	3.04	0.45
31:BA:90:U:H1'	31:BA:92:A:H5''	1.98	0.45
31:BA:390:A:C6	41:BP:71:VAL:HG21	2.52	0.45
31:BA:527:C:P	31:BA:2779:U:H5	2.40	0.45
31:BA:564:C:H2'	31:BA:565:C:O4'	2.17	0.45
31:BA:778:G:H2'	31:BA:779:U:C6	2.52	0.45
31:BA:1014:U:H2'	31:BA:1015:G:O4'	2.17	0.45
31:BA:1045:A:H3'	31:BA:1045:A:N3	2.32	0.45
31:BA:1141:U:OP2	39:BN:63:THR:CG2	2.65	0.45
31:BA:1266:G:O4'	48:BW:15:ARG:NH2	2.50	0.45
31:BA:1298:C:N4	31:BA:1299:G:C6	2.85	0.45
31:BA:1548:C:O2'	31:BA:1549:C:H5'	2.17	0.45
31:BA:1655:A:C4	31:BA:1656:C:C6	3.05	0.45
31:BA:1673:U:O4	34:BE:129:HIS:CD2	2.70	0.45
31:BA:1677:A:H2'	31:BA:1678:G:C8	2.51	0.45
31:BA:1891:G:C6	31:BA:1892:C:C4	3.05	0.45
31:BA:2078:C:H2'	31:BA:2079:U:O4'	2.17	0.45
31:BA:2311:A:C4'	36:BG:77:ILE:HD11	2.47	0.45
31:BA:2541:A:H4'	31:BA:2764:A:N1	2.32	0.45
32:BB:42:C:C6	36:BG:69:ALA:HB2	2.52	0.45
33:BD:24:ILE:HD11	33:BD:84:TYR:H	1.82	0.45
33:BD:85:ASP:OD1	33:BD:87:ASN:ND2	2.50	0.45
34:BE:92:THR:O	34:BE:93:VAL:HB	2.17	0.45
35:BF:107:LYS:O	35:BF:108:LYS:C	2.55	0.45
36:BG:114:ILE:CG1	36:BG:140:ILE:HD12	2.47	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:123:PHE:CE2	37:BH:148:ILE:HD11	2.52	0.45
39:BN:55:VAL:O	39:BN:56:ASN:C	2.55	0.45
39:BN:100:GLU:O	39:BN:101:HIS:C	2.56	0.45
45:BT:115:ARG:O	45:BT:116:ALA:HB2	2.16	0.45
47:BV:25:LEU:N	47:BV:94:LEU:CD1	2.80	0.45
48:BW:79:GLY:O	48:BW:80:PRO:C	2.56	0.45
51:BZ:156:LYS:O	51:BZ:158:PRO:CD	2.65	0.45
51:BZ:171:ILE:O	51:BZ:172:ALA:HB3	2.17	0.45
1:CA:22:G:C6	1:CA:23:C:C4	3.05	0.45
1:CA:189(E):U:O2'	1:CA:189(F):U:C5'	2.65	0.45
1:CA:287:U:O2'	1:CA:288:A:H5'	2.17	0.45
1:CA:356:A:N3	1:CA:368:U:O2'	2.45	0.45
1:CA:358:U:C2'	1:CA:359:U:O5'	2.65	0.45
1:CA:564:C:C5	17:CQ:31:LEU:HD11	2.51	0.45
1:CA:617:G:N1	1:CA:618:C:C4	2.84	0.45
1:CA:632:A:H8	1:CA:633:G:C8	2.33	0.45
1:CA:815:A:C2	1:CA:1529:G:C4	3.05	0.45
1:CA:852:G:C6	1:CA:853:G:N7	2.85	0.45
1:CA:945:G:H2'	1:CA:945:G:N3	2.31	0.45
1:CA:1072:G:C4	1:CA:1104:G:N2	2.85	0.45
1:CA:1225:A:O2'	19:CS:78:ARG:HD3	2.17	0.45
1:CA:1301:U:H3'	1:CA:1302:U:C5'	2.46	0.45
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.47	0.45
16:CP:49:LEU:HG	16:CP:50:LYS:N	2.32	0.45
17:CQ:4:LYS:HB3	17:CQ:61:GLU:OE2	2.17	0.45
23:D1:85:LEU:C	23:D1:87:PRO:CD	2.84	0.45
29:D7:34:ARG:HB2	29:D7:42:LEU:HD22	1.99	0.45
29:D7:34:ARG:NH1	29:D7:39:ARG:HG3	2.31	0.45
31:DA:414:C:H4'	31:DA:1879:C:O2	2.17	0.45
31:DA:444:C:H2'	31:DA:445:C:H6	1.82	0.45
31:DA:451:C:H41	31:DA:454:A:H5'	1.81	0.45
31:DA:593:G:C2	31:DA:665:C:C2	3.05	0.45
31:DA:672:C:H2'	31:DA:673:C:H6	1.81	0.45
31:DA:690:G:N2	31:DA:773:U:C2	2.85	0.45
31:DA:911:A:O4'	31:DA:2264:C:H4'	2.16	0.45
31:DA:1149:G:H2'	31:DA:1150:C:C6	2.52	0.45
31:DA:1623:G:C2	31:DA:1624:G:C8	3.05	0.45
31:DA:1709:U:H2'	31:DA:1710:C:C6	2.52	0.45
31:DA:1811:G:C5	31:DA:1812:A:N7	2.85	0.45
31:DA:2292:C:HO2'	31:DA:2293:C:H5'	1.82	0.45
31:DA:2318:G:C2'	31:DA:2319:G:OP1	2.63	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:65:C:N4	32:DB:109:C:C2'	2.62	0.45
33:DD:30:GLU:CG	33:DD:63:ARG:HE	2.25	0.45
34:DE:169:ASN:H	34:DE:201:THR:HG23	1.82	0.45
35:DF:62:ARG:HH21	35:DF:64:ILE:HA	1.82	0.45
35:DF:95:ARG:HG3	35:DF:97:TYR:CE2	2.51	0.45
36:DG:15:VAL:HG12	36:DG:19:LEU:HG	1.99	0.45
36:DG:89:GLY:O	36:DG:90:LEU:O	2.35	0.45
37:DH:149:ARG:HD3	37:DH:164:TYR:CE1	2.46	0.45
37:DH:153:LYS:N	37:DH:153:LYS:CD	2.80	0.45
38:DI:8:PRO:C	38:DI:9:LEU:HD23	2.37	0.45
38:DI:19:VAL:HG22	38:DI:20:ASP:N	2.31	0.45
38:DI:41:GLU:O	38:DI:42:SER:C	2.54	0.45
40:DO:104:ARG:NH2	45:DT:33:LYS:HD2	2.30	0.45
41:DP:75:ILE:N	41:DP:75:ILE:CD1	2.78	0.45
41:DP:85:LEU:HD12	41:DP:120:ALA:CB	2.47	0.45
42:DQ:6:ARG:O	42:DQ:7:MET:HG2	2.17	0.45
42:DQ:30:GLY:O	42:DQ:134:ARG:HD3	2.17	0.45
43:DR:37:THR:OG1	43:DR:40:LYS:HG3	2.17	0.45
44:DS:28:VAL:HG12	44:DS:29:PHE:N	2.32	0.45
44:DS:62:LYS:O	44:DS:66:ALA:CB	2.63	0.45
45:DT:7:ILE:O	45:DT:11:GLU:OE1	2.35	0.45
48:DW:62:HIS:O	48:DW:63:ASP:C	2.55	0.45
48:DW:74:ALA:HA	48:DW:104:THR:O	2.17	0.45
49:DX:53:LYS:HZ2	49:DX:55:ASN:HD21	1.62	0.45
1:AA:15:G:C4	1:AA:16:A:C8	3.05	0.44
1:AA:25:C:H2'	1:AA:26:A:C8	2.51	0.44
1:AA:166:G:C2'	1:AA:167:G:H5'	2.45	0.44
1:AA:370:C:H2'	1:AA:371:G:C8	2.53	0.44
1:AA:391:G:O6	1:AA:392:G:C6	2.70	0.44
1:AA:396:G:C2	1:AA:398:C:C4	3.05	0.44
1:AA:559:A:N7	1:AA:561:U:C4	2.86	0.44
1:AA:735:C:C2'	1:AA:736:C:H5'	2.47	0.44
1:AA:836:G:O6	1:AA:851:G:C6	2.70	0.44
1:AA:1519:A:N7	1:AA:1520:G:H1'	2.31	0.44
6:AF:3:ARG:NH1	6:AF:38:GLU:OE1	2.50	0.44
6:AF:89:MET:O	6:AF:89:MET:HG2	2.16	0.44
8:AH:82:HIS:HB3	8:AH:138:TRP:CE2	2.52	0.44
10:AJ:65:LEU:HD13	14:AN:56:VAL:CG2	2.46	0.44
12:AL:114:LYS:O	12:AL:117:ARG:HD3	2.16	0.44
13:AM:58:GLU:O	13:AM:62:ASN:HB3	2.17	0.44
13:AM:68:GLY:N	13:AM:71:ARG:HB3	2.32	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:43:LEU:O	15:AO:44:LYS:C	2.56	0.44
23:B1:89:GLU:CD	23:B1:89:GLU:N	2.57	0.44
25:B3:8:LEU:O	25:B3:32:GLN:N	2.50	0.44
28:B6:51:GLU:CG	28:B6:52:VAL:N	2.70	0.44
30:B8:32:LEU:CD2	30:B8:35:GLN:O	2.65	0.44
30:B8:41:ILE:HG21	31:BA:2419:U:OP1	2.17	0.44
31:BA:118:A:H3'	31:BA:119:A:H5''	1.99	0.44
31:BA:407:G:H2'	31:BA:408:G:H8	1.82	0.44
31:BA:460:A:C2	31:BA:470:A:C5	3.05	0.44
31:BA:500:G:N2	31:BA:502:A:H3'	2.33	0.44
31:BA:686:G:N2	31:BA:788:A:H61	2.15	0.44
31:BA:814:C:H4'	31:BA:1224:C:O2	2.16	0.44
31:BA:842:G:H2'	31:BA:843:G:O4'	2.17	0.44
31:BA:1409:C:O2'	31:BA:1410:G:H5'	2.16	0.44
31:BA:1411:C:C2'	31:BA:1412:A:H8	2.29	0.44
31:BA:1631(A):A:C2'	31:BA:1632:A:H5'	2.46	0.44
31:BA:2058:A:H61	55:BA:3362:TEL:H572	1.82	0.44
31:BA:2244:U:H2'	31:BA:2245:U:O4'	2.17	0.44
31:BA:2422:A:C4'	31:BA:2423:U:OP1	2.66	0.44
31:BA:2574:G:C6	31:BA:2575:C:N3	2.85	0.44
31:BA:2818:G:C2'	31:BA:2819:G:H5'	2.46	0.44
31:BA:2873:A:C2	43:BR:6:SER:HB2	2.51	0.44
32:BB:17:C:O2	32:BB:18:G:O4'	2.34	0.44
33:BD:50:THR:O	33:BD:51:VAL:HG23	2.17	0.44
33:BD:182:LEU:HB3	33:BD:271:ILE:CD1	2.47	0.44
33:BD:231:HIS:CE1	33:BD:232:PRO:HD2	2.51	0.44
34:BE:77:ILE:CG2	34:BE:79:ARG:HE	2.30	0.44
34:BE:103:ASP:OD1	34:BE:201:THR:HG23	2.17	0.44
36:BG:105:LYS:HZ2	36:BG:105:LYS:HB2	1.82	0.44
37:BH:43:VAL:HG12	37:BH:53:GLU:HB2	1.99	0.44
38:BI:5:LEU:HD21	38:BI:19:VAL:HG11	1.99	0.44
38:BI:10:GLU:C	38:BI:12:LEU:H	2.21	0.44
40:BO:87:ILE:HG22	40:BO:88:ASN:O	2.17	0.44
43:BR:55:ALA:HB2	43:BR:79:LEU:CD1	2.47	0.44
45:BT:28:VAL:HG21	45:BT:46:GLU:HG3	1.98	0.44
46:BU:88:ILE:C	46:BU:88:ILE:CD1	2.86	0.44
51:BZ:30:ASN:HB3	51:BZ:90:VAL:O	2.17	0.44
1:CA:57:G:C2	1:CA:58:C:C2	3.05	0.44
1:CA:142:G:C2	1:CA:143:A:N7	2.85	0.44
1:CA:161:A:H8	1:CA:161:A:O5'	2.00	0.44
1:CA:260:G:H2'	1:CA:261:U:C6	2.52	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:407:G:N1	1:CA:408:A:C5	2.85	0.44
1:CA:568:G:C6	12:CL:5:PRO:HD3	2.51	0.44
1:CA:617:G:C2	1:CA:618:C:C4	3.05	0.44
1:CA:659:U:O4	1:CA:746:A:N1	2.50	0.44
1:CA:675:A:H1'	11:CK:116:HIS:CD2	2.51	0.44
1:CA:884:U:H4'	1:CA:885:G:H5''	1.98	0.44
1:CA:1125:U:C2'	1:CA:1126:U:OP2	2.65	0.44
1:CA:1296:C:C5	1:CA:1297:C:C5	3.05	0.44
1:CA:1313:U:OP2	19:CS:6:LYS:HB3	2.18	0.44
1:CA:1322:C:H5'	13:CM:100:GLY:HA3	1.99	0.44
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.52	0.44
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.82	0.44
2:CB:124:SER:OG	2:CB:125:PRO:HD2	2.17	0.44
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.48	0.44
4:CD:74:GLN:HA	4:CD:77:ASN:HB2	1.99	0.44
6:CF:46:ARG:HB2	6:CF:60:PHE:CD1	2.52	0.44
7:CG:145:ALA:O	7:CG:147:ALA:N	2.49	0.44
8:CH:52:ASP:OD2	8:CH:56:LYS:N	2.50	0.44
10:CJ:38:ILE:O	10:CJ:38:ILE:HG13	2.16	0.44
11:CK:29:ILE:HG13	11:CK:43:SER:C	2.37	0.44
18:CR:39:VAL:HG12	18:CR:40:LEU:HD23	1.98	0.44
30:D8:54:GLU:O	30:D8:58:ILE:HG12	2.16	0.44
31:DA:49:A:C4'	31:DA:50:U:OP2	2.64	0.44
31:DA:58:G:H5''	49:DX:72:LYS:HB2	1.99	0.44
31:DA:426:C:C2	31:DA:427:U:C6	3.05	0.44
31:DA:573:G:H1	31:DA:2030:A:H3'	1.83	0.44
31:DA:672:C:C2'	31:DA:673:C:H5'	2.47	0.44
31:DA:693:C:C2	31:DA:770:G:C2	3.06	0.44
31:DA:698:C:O2'	31:DA:734:A:N6	2.50	0.44
31:DA:842:G:H2'	31:DA:843:G:O4'	2.17	0.44
31:DA:950:G:C5	31:DA:951:C:C4	3.06	0.44
31:DA:1115:G:N3	31:DA:1116:C:C5	2.86	0.44
31:DA:1203:G:H4'	41:DP:7:ARG:HG2	1.98	0.44
31:DA:1642:G:O2'	31:DA:1643:G:H5'	2.16	0.44
31:DA:2080:G:N2	31:DA:2241:A:C4	2.85	0.44
31:DA:2085:C:O2'	31:DA:2086:U:H5'	2.18	0.44
31:DA:2093:G:H2'	31:DA:2094:G:H8	1.82	0.44
31:DA:2415:G:H2'	31:DA:2416:C:C6	2.52	0.44
31:DA:2530:A:C2'	31:DA:2531:A:H5''	2.46	0.44
31:DA:2631:G:H22	34:DE:61:ARG:NH1	2.11	0.44
31:DA:2751:G:N3	31:DA:2751:G:H2'	2.32	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2759:G:C2'	31:DA:2760:C:H5'	2.48	0.44
31:DA:2817:G:C2	31:DA:2830:G:C4	3.05	0.44
31:DA:2842:G:O2'	31:DA:2843:G:H5'	2.17	0.44
34:DE:9:VAL:CG2	34:DE:10:GLY:N	2.80	0.44
36:DG:16:ARG:NH1	36:DG:16:ARG:HG3	2.32	0.44
36:DG:73:ALA:HB3	36:DG:85:GLY:C	2.36	0.44
38:DI:25:TYR:O	38:DI:26:ALA:C	2.56	0.44
41:DP:71:VAL:HG13	41:DP:72:PRO:HD3	1.96	0.44
41:DP:77:ARG:HE	41:DP:77:ARG:HB3	1.64	0.44
41:DP:118:GLY:O	41:DP:119:GLU:CG	2.53	0.44
42:DQ:62:GLY:O	51:DZ:178:GLU:HG2	2.16	0.44
44:DS:73:LEU:O	44:DS:77:ALA:CB	2.65	0.44
45:DT:5:ALA:O	45:DT:6:LEU:C	2.56	0.44
45:DT:50:ILE:HD13	45:DT:64:ARG:HB3	1.97	0.44
45:DT:55:ASN:HB3	45:DT:57:PHE:O	2.17	0.44
45:DT:107:ASP:H	45:DT:110:ILE:HG13	1.81	0.44
48:DW:31:GLU:O	48:DW:32:ALA:C	2.55	0.44
50:DY:25:GLY:HA3	50:DY:39:VAL:HG13	2.00	0.44
1:AA:22:G:C6	1:AA:23:C:N4	2.85	0.44
1:AA:22:G:C5	1:AA:23:C:C4	3.05	0.44
1:AA:189:G:C6	1:AA:189(A):C:C4	3.05	0.44
1:AA:304:U:H2'	1:AA:305:G:C8	2.51	0.44
1:AA:354:G:C6	1:AA:355:C:N4	2.85	0.44
1:AA:358:U:C5	1:AA:359:U:C4	3.06	0.44
1:AA:373:A:H2'	1:AA:374:A:C8	2.47	0.44
1:AA:533:A:C1'	1:AA:534:U:OP1	2.65	0.44
1:AA:543:C:N3	1:AA:544:G:C8	2.85	0.44
1:AA:579:G:H5'	1:AA:728:A:C1'	2.42	0.44
1:AA:1125:U:C2'	1:AA:1126:U:OP2	2.64	0.44
1:AA:1206:G:O4'	3:AC:194:GLY:HA2	2.16	0.44
1:AA:1252:A:H2'	1:AA:1253:G:O4'	2.16	0.44
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.32	0.44
1:AA:1399:C:C4'	1:AA:1400:C:H5''	2.40	0.44
1:AA:1442(A):G:N7	45:BT:118:ARG:CZ	2.80	0.44
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.18	0.44
2:AB:22:LYS:HA	2:AB:24:TRP:HD1	1.81	0.44
2:AB:44:LEU:H	2:AB:44:LEU:HD12	1.82	0.44
2:AB:124:SER:OG	2:AB:125:PRO:HD2	2.17	0.44
3:AC:14:ILE:HG23	3:AC:15:THR:N	2.32	0.44
4:AD:24:GLU:O	4:AD:26:CYS:N	2.50	0.44
5:AE:139:LEU:HD23	5:AE:142:LEU:HD11	1.99	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:36:ARG:O	6:AF:38:GLU:HG3	2.17	0.44
7:AG:66:VAL:HG12	7:AG:70:LYS:HE3	2.00	0.44
9:AI:18:PHE:CD1	9:AI:62:TYR:HD2	2.35	0.44
9:AI:78:LYS:HB2	9:AI:78:LYS:NZ	2.32	0.44
11:AK:95:ILE:HG23	11:AK:108:ILE:HD11	1.99	0.44
12:AL:34:ARG:HG2	12:AL:35:GLY:N	2.31	0.44
13:AM:7:VAL:HG21	36:BG:137:GLU:OE2	2.18	0.44
13:AM:105:THR:O	13:AM:106:ASN:O	2.35	0.44
16:AP:12:LYS:C	16:AP:14:ASN:H	2.21	0.44
18:AR:29:PHE:CE1	18:AR:31:LEU:HD22	2.52	0.44
24:B2:18:PRO:C	24:B2:20:GLU:N	2.70	0.44
31:BA:39:C:H2'	31:BA:40:C:H6	1.82	0.44
31:BA:79:G:C6	31:BA:80:G:N7	2.85	0.44
31:BA:271(F):C:O2'	31:BA:271(G):C:H5'	2.17	0.44
31:BA:271(H):G:O2'	31:BA:271(I):G:OP2	2.32	0.44
31:BA:447:A:C6	31:BA:454:A:C8	3.06	0.44
31:BA:646:A:C2'	31:BA:647:G:H5'	2.47	0.44
31:BA:943:U:OP1	41:BP:38:GLN:HB3	2.18	0.44
31:BA:1344:G:H4'	31:BA:1384:A:N7	2.33	0.44
31:BA:1374:G:H2'	31:BA:1375:C:O4'	2.17	0.44
31:BA:1499:C:H2'	31:BA:1500:G:C5'	2.47	0.44
31:BA:1677:A:H2'	31:BA:1678:G:O5'	2.17	0.44
31:BA:1767:C:O2'	31:BA:1768:U:H5'	2.18	0.44
31:BA:2016:U:C4	31:BA:2017:U:C4	3.06	0.44
31:BA:2259:G:C6	31:BA:2282:G:O6	2.70	0.44
31:BA:2359:C:O2'	31:BA:2360:A:H5'	2.17	0.44
31:BA:2364:C:H2'	31:BA:2365:G:C5'	2.46	0.44
31:BA:2517:C:C6	31:BA:2542:A:C2	3.05	0.44
32:BB:29:A:H2'	32:BB:30:C:O4'	2.16	0.44
32:BB:111:G:H2'	32:BB:112:U:H6	1.82	0.44
33:BD:164:GLN:CB	33:BD:166:GLN:HE22	2.29	0.44
35:BF:40:GLN:O	35:BF:43:LYS:HG2	2.17	0.44
37:BH:89:ILE:CG1	37:BH:90:LYS:N	2.78	0.44
37:BH:135:GLY:HA3	37:BH:141:VAL:HG23	1.98	0.44
39:BN:37:LYS:HD3	46:BU:63:VAL:HG13	1.99	0.44
39:BN:40:PRO:HA	46:BU:64:ARG:HH22	1.82	0.44
41:BP:83:VAL:HG11	41:BP:112:LEU:HD21	1.96	0.44
41:BP:140:ALA:O	41:BP:141:ALA:HB2	2.17	0.44
42:BQ:6:ARG:O	42:BQ:6:ARG:CG	2.65	0.44
43:BR:96:ARG:O	43:BR:114:VAL:HA	2.18	0.44
48:BW:52:GLU:O	48:BW:55:ALA:HB3	2.17	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:124:G:C6	1:CA:125:U:N3	2.85	0.44
1:CA:191:G:C6	1:CA:192:U:C4	3.06	0.44
1:CA:367:U:C6	1:CA:394:G:N2	2.85	0.44
1:CA:578:C:C1'	1:CA:729:A:H1'	2.47	0.44
1:CA:633:G:N7	1:CA:634:C:C5	2.85	0.44
1:CA:652:U:O4	1:CA:752:G:O2'	2.28	0.44
1:CA:658:G:C6	1:CA:749:C:N4	2.84	0.44
1:CA:678:U:H2'	1:CA:679:C:H6	1.79	0.44
1:CA:705:U:C5	1:CA:706:A:C5	3.04	0.44
1:CA:832:C:O2'	1:CA:833:U:O5'	2.35	0.44
1:CA:1064:G:C1'	1:CA:1065:U:OP2	2.64	0.44
1:CA:1298:C:C4'	1:CA:1299:A:C4	2.97	0.44
1:CA:1412:C:C2	1:CA:1489:G:N2	2.86	0.44
1:CA:1435:G:H2'	1:CA:1436:U:H6	1.71	0.44
1:CA:1496:C:H2'	1:CA:1497:G:C1'	2.48	0.44
4:CD:149:ALA:O	4:CD:153:ARG:HG3	2.17	0.44
5:CE:47:LYS:O	5:CE:57:LYS:HE2	2.17	0.44
7:CG:144:MET:O	7:CG:148:ASN:HB2	2.17	0.44
13:CM:58:GLU:O	13:CM:62:ASN:HB3	2.17	0.44
19:CS:22:LEU:O	19:CS:26:GLY:HA2	2.18	0.44
20:CT:24:LEU:C	20:CT:24:LEU:HD13	2.38	0.44
20:CT:64:ASP:OD2	20:CT:81:LYS:NZ	2.50	0.44
23:D1:33:LYS:HB3	31:DA:2395:C:O2'	2.16	0.44
24:D2:59:ARG:HD2	24:D2:59:ARG:HA	1.58	0.44
28:D6:51:GLU:CG	28:D6:52:VAL:N	2.68	0.44
30:D8:41:ILE:HG21	31:DA:2419:U:OP1	2.16	0.44
30:D8:53:PRO:O	30:D8:54:GLU:C	2.54	0.44
31:DA:58:G:O2'	31:DA:59:U:O5'	2.33	0.44
31:DA:299:A:C2	31:DA:322:A:C4	3.04	0.44
31:DA:433:C:C4	31:DA:434:U:O4	2.71	0.44
31:DA:470:A:H2'	31:DA:471:A:O4'	2.17	0.44
31:DA:503:A:C5	31:DA:506:G:C6	3.05	0.44
31:DA:663:G:OP1	41:DP:20:GLY:HA2	2.17	0.44
31:DA:745:G:H2'	31:DA:746:A:H5'	1.99	0.44
31:DA:814:C:H5	41:DP:27:HIS:CD2	2.35	0.44
31:DA:846:C:C4	31:DA:930:U:C4	3.05	0.44
31:DA:910:A:C6	31:DA:911:A:C6	3.06	0.44
31:DA:1171:G:N7	31:DA:1173:G:H1'	2.31	0.44
31:DA:1331:A:HO2'	31:DA:1332:G:H8	1.64	0.44
31:DA:1374:G:C6	31:DA:1375:C:N3	2.85	0.44
31:DA:1575:C:H2'	31:DA:1576:U:H6	1.83	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1799:G:N7	33:DD:179:SER:OG	2.50	0.44
31:DA:1836:C:H2'	31:DA:1837:C:H6	1.82	0.44
31:DA:1907:G:O2'	31:DA:1908:C:H5'	2.18	0.44
31:DA:2030:A:H5''	31:DA:2030:A:H8	1.81	0.44
31:DA:2224:G:H4'	31:DA:2226:C:C2	2.52	0.44
31:DA:2532:G:N2	31:DA:2663:G:O2'	2.45	0.44
31:DA:2718:G:C5	31:DA:2719:G:C8	3.05	0.44
31:DA:2740:A:C6	31:DA:2741:A:C6	3.05	0.44
31:DA:2809:A:C2'	31:DA:2810:A:H5'	2.48	0.44
31:DA:2845:G:C2'	31:DA:2846:G:H5'	2.48	0.44
31:DA:2886:G:C4	31:DA:2887:U:C6	3.05	0.44
32:DB:17:C:N3	32:DB:18:G:C8	2.85	0.44
33:DD:17:THR:CG2	33:DD:205:VAL:HB	2.46	0.44
33:DD:31:LYS:HZ1	33:DD:31:LYS:HA	1.82	0.44
39:DN:31:ALA:O	39:DN:32:THR:C	2.55	0.44
39:DN:31:ALA:O	39:DN:34:LEU:N	2.50	0.44
1:AA:17:U:O2'	1:AA:1079:G:N3	2.45	0.44
1:AA:90:U:O3'	1:AA:91:C:C6	2.70	0.44
1:AA:114:U:H2'	1:AA:115:G:H8	1.79	0.44
1:AA:303:A:O2'	1:AA:555:C:H4'	2.17	0.44
1:AA:617:G:C2	1:AA:618:C:C4	3.05	0.44
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.17	0.44
1:AA:1261:A:H5'	1:AA:1284:C:OP1	2.16	0.44
1:AA:1418:A:H2	31:BA:1948:G:C2	2.29	0.44
1:AA:1503:A:O2'	1:AA:1504:G:C5'	2.65	0.44
2:AB:85:ALA:HB1	2:AB:90:MET:O	2.18	0.44
3:AC:33:LEU:HD21	14:AN:39:LEU:HD11	1.98	0.44
3:AC:188:LEU:O	3:AC:189:ALA:CB	2.64	0.44
4:AD:52:SER:O	4:AD:55:ALA:N	2.51	0.44
4:AD:60:GLU:O	4:AD:63:LYS:HB3	2.17	0.44
4:AD:100:ARG:NH2	4:AD:118:ARG:HH22	2.15	0.44
4:AD:106:TYR:HE1	4:AD:112:VAL:C	2.20	0.44
4:AD:116:GLN:NE2	4:AD:157:LEU:HD21	2.32	0.44
6:AF:46:ARG:HB2	6:AF:60:PHE:CE1	2.52	0.44
8:AH:44:PHE:HA	8:AH:79:VAL:CG1	2.46	0.44
8:AH:45:ILE:HB	8:AH:47:GLY:H	1.82	0.44
11:AK:58:PRO:O	11:AK:61:ALA:HB3	2.16	0.44
12:AL:84:LEU:HB2	12:AL:105:TYR:CE1	2.52	0.44
12:AL:86:ARG:HG2	12:AL:87:GLY:N	2.32	0.44
14:AN:39:LEU:HD13	14:AN:47:LEU:HD12	1.99	0.44
15:AO:56:LEU:HD21	31:BA:715:G:N1	2.30	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:26:LEU:HD21	18:AR:42:ARG:HD2	1.99	0.44
22:B0:23:VAL:HG12	22:B0:25:ARG:O	2.17	0.44
24:B2:18:PRO:O	24:B2:20:GLU:N	2.51	0.44
31:BA:118:A:H3'	31:BA:119:A:C5'	2.47	0.44
31:BA:192:C:H2'	31:BA:193:U:O5'	2.17	0.44
31:BA:193:U:H2'	31:BA:194:G:H5'	1.99	0.44
31:BA:372:G:HO2'	31:BA:373:U:P	2.41	0.44
31:BA:1053:C:N4	31:BA:1107:G:N2	2.65	0.44
31:BA:1115:G:N3	31:BA:1116:C:C5	2.85	0.44
31:BA:1257:C:H4'	35:BF:83:PHE:CE2	2.52	0.44
31:BA:1899:G:O2'	31:BA:1900:A:OP2	2.35	0.44
31:BA:1992:G:O5'	31:BA:1992:G:C8	2.70	0.44
31:BA:2061:G:N3	31:BA:2063:C:C4	2.86	0.44
31:BA:2223:G:H2'	31:BA:2224:G:O4'	2.18	0.44
31:BA:2275:C:O2'	42:BQ:83:MET:CA	2.46	0.44
31:BA:2417:C:H6	31:BA:2417:C:O5'	2.00	0.44
31:BA:2516:G:C6	31:BA:2517:C:N4	2.85	0.44
31:BA:2580:U:H5'	34:BE:131:ALA:CB	2.47	0.44
31:BA:2639:A:C2'	31:BA:2640:G:H5'	2.48	0.44
31:BA:2653:U:H2'	31:BA:2654:A:C8	2.52	0.44
31:BA:2660:A:N3	31:BA:2660:A:O5'	2.51	0.44
36:BG:117:PHE:HZ	36:BG:179:PRO:HG2	1.80	0.44
39:BN:96:GLU:O	39:BN:100:GLU:HG3	2.17	0.44
47:BV:1:MET:H2	47:BV:44:LYS:HD2	1.82	0.44
49:BX:60:ARG:HB2	49:BX:73:ARG:CA	2.47	0.44
50:BY:8:LYS:HB2	50:BY:28:LYS:HZ1	1.83	0.44
51:BZ:143:GLY:N	51:BZ:144:LEU:HD22	2.31	0.44
51:BZ:146:ILE:HG22	51:BZ:174:VAL:HG12	1.99	0.44
1:CA:42:G:O2'	1:CA:622:A:N1	2.46	0.44
1:CA:198:G:O6	1:CA:219:C:N4	2.51	0.44
1:CA:690:G:H2'	1:CA:691:G:O4'	2.18	0.44
1:CA:758:G:H2'	1:CA:759:A:OP2	2.18	0.44
1:CA:995:C:O4'	14:CN:8:GLU:CD	2.56	0.44
1:CA:1077:G:C6	1:CA:1081:G:O6	2.70	0.44
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.51	0.44
1:CA:1266:G:N2	1:CA:1270:C:N3	2.66	0.44
1:CA:1442(B):A:OP1	1:CA:1442(B):A:H4'	2.16	0.44
2:CB:200:ILE:C	2:CB:201:ILE:HD13	2.36	0.44
3:CC:204:LEU:HB3	3:CC:205:GLY:H	1.50	0.44
4:CD:14:ARG:HA	4:CD:39:PRO:HB3	1.99	0.44
5:CE:34:VAL:O	5:CE:41:VAL:HG12	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:129:ILE:O	5:CE:132:ALA:HB3	2.17	0.44
9:CI:94:ALA:O	9:CI:98:PRO:HG2	2.18	0.44
16:CP:71:ARG:O	16:CP:72:ARG:C	2.55	0.44
22:D0:66:VAL:HG12	22:D0:67:VAL:N	2.32	0.44
22:D0:82:ARG:HA	22:D0:83:PRO:HD2	1.82	0.44
23:D1:33:LYS:HE3	23:D1:33:LYS:HB2	1.75	0.44
27:D5:31:VAL:HG23	27:D5:32:PRO:N	2.32	0.44
28:D6:25:LYS:O	31:DA:2286:A:C2	2.58	0.44
28:D6:46:HIS:HA	28:D6:47:THR:HA	1.99	0.44
31:DA:497:A:C6	31:DA:498:G:C5	3.05	0.44
31:DA:527:C:OP2	31:DA:2779:U:C5	2.65	0.44
31:DA:831:G:C2	31:DA:832:G:H1'	2.52	0.44
31:DA:879:G:H8	31:DA:879:G:O5'	2.00	0.44
31:DA:904:C:H6	31:DA:904:C:C5'	2.31	0.44
31:DA:953:A:N1	31:DA:964:C:O2	2.50	0.44
31:DA:1138:G:H5''	31:DA:1139:G:OP2	2.17	0.44
31:DA:1176:G:H1'	31:DA:1177:A:OP1	2.18	0.44
31:DA:1512:U:O2	31:DA:1512:U:C2'	2.56	0.44
31:DA:1721:G:H5'	31:DA:1722:A:OP2	2.17	0.44
31:DA:1788:C:C2'	31:DA:1789:A:H5'	2.47	0.44
31:DA:1862:G:N2	31:DA:1863:G:C4	2.86	0.44
31:DA:2330:G:H2'	31:DA:2331:G:O4'	2.17	0.44
31:DA:2783:G:H2'	31:DA:2784:C:C6	2.53	0.44
31:DA:2893:G:H5'	31:DA:2894:G:OP1	2.17	0.44
33:DD:33:LEU:HB3	33:DD:34:VAL:H	1.62	0.44
33:DD:83:GLU:HB2	33:DD:92:ILE:HD11	1.98	0.44
33:DD:182:LEU:HD22	33:DD:182:LEU:HA	1.57	0.44
33:DD:206:LEU:N	33:DD:206:LEU:CD2	2.78	0.44
34:DE:3:GLY:HA2	34:DE:198:VAL:O	2.18	0.44
34:DE:8:LYS:NZ	34:DE:188:VAL:O	2.47	0.44
34:DE:61:ARG:C	34:DE:63:LEU:H	2.21	0.44
35:DF:167:ALA:HB1	35:DF:173:VAL:HG11	1.98	0.44
36:DG:60:LEU:CD1	36:DG:64:THR:HG21	2.46	0.44
39:DN:78:TYR:HD1	39:DN:79:PRO:HD3	1.82	0.44
40:DO:13:ASN:ND2	40:DO:97:ARG:CB	2.80	0.44
41:DP:50:ARG:O	41:DP:57:THR:HG23	2.17	0.44
42:DQ:52:VAL:O	42:DQ:55:VAL:HG13	2.18	0.44
45:DT:29:ARG:NE	45:DT:86:ILE:HG22	2.32	0.44
46:DU:33:ARG:O	46:DU:37:GLU:HG3	2.17	0.44
47:DV:72:VAL:O	47:DV:73:SER:OG	2.35	0.44
48:DW:57:ASN:O	48:DW:58:ALA:C	2.55	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:95:LYS:HG2	50:DY:101:LYS:N	2.32	0.44
51:DZ:3:TYR:CE2	51:DZ:51:ALA:HB2	2.52	0.44
51:DZ:139:VAL:C	51:DZ:141:VAL:H	2.21	0.44
51:DZ:166:SER:CB	51:DZ:167:PRO:CA	2.96	0.44
1:AA:57:G:C2	1:AA:58:C:C2	3.06	0.44
1:AA:188:C:H6	1:AA:188:C:H3'	1.81	0.44
1:AA:294:U:C2	1:AA:295:C:C5	3.06	0.44
1:AA:451:A:H2'	1:AA:481:G:O6	2.17	0.44
1:AA:498:U:O2	1:AA:499:A:C8	2.70	0.44
1:AA:509:A:H2'	1:AA:510:A:C8	2.52	0.44
1:AA:626:U:C2	1:AA:627:G:C8	3.06	0.44
1:AA:659:U:O4	1:AA:746:A:N1	2.50	0.44
1:AA:767:A:H2'	1:AA:768:A:O4'	2.18	0.44
1:AA:835:U:H3	1:AA:851:G:H1	1.65	0.44
1:AA:852:G:C6	1:AA:853:G:N7	2.86	0.44
1:AA:1137:C:H3'	1:AA:1137:C:H6	1.82	0.44
1:AA:1386:G:C2	1:AA:1387:G:C8	3.05	0.44
1:AA:1466:C:H2'	1:AA:1467:G:C5'	2.47	0.44
2:AB:90:MET:HA	2:AB:90:MET:CE	2.47	0.44
2:AB:163:PHE:CD2	2:AB:185:ILE:HG13	2.52	0.44
3:AC:75:VAL:HG12	3:AC:75:VAL:O	2.17	0.44
3:AC:125:GLU:OE2	3:AC:189:ALA:HA	2.18	0.44
4:AD:172:PRO:CB	4:AD:187:ARG:HH22	2.26	0.44
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.46	0.44
8:AH:112:LEU:HB3	8:AH:133:LEU:HD23	1.98	0.44
11:AK:66:LEU:HD21	11:AK:101:SER:HA	1.99	0.44
20:AT:48:LYS:O	20:AT:49:ALA:HB2	2.18	0.44
29:B7:40:TRP:CD2	31:BA:459:U:C5'	3.00	0.44
30:B8:12:LYS:HG2	41:BP:68:GLN:CD	2.38	0.44
30:B8:32:LEU:CG	30:B8:34:TRP:HB3	2.45	0.44
30:B8:37:SER:HB2	30:B8:38:GLY:H	1.46	0.44
31:BA:9:U:C6	31:BA:2629:A:N6	2.86	0.44
31:BA:245:G:H2'	31:BA:246:C:H6	1.82	0.44
31:BA:280:C:H42	31:BA:360:G:H1	1.64	0.44
31:BA:388:G:C6	31:BA:390:A:C2	3.05	0.44
31:BA:440:G:H2'	31:BA:441:U:C6	2.52	0.44
31:BA:721:C:H3'	31:BA:722:A:H8	1.82	0.44
31:BA:1342:A:HO2'	31:BA:1344:G:P	2.39	0.44
31:BA:1680:U:O2	31:BA:1763:G:H3'	2.17	0.44
31:BA:2318:G:HO2'	31:BA:2319:G:P	2.41	0.44
31:BA:2636:U:P	34:BE:80:GLU:HG3	2.57	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2839:G:C5	31:BA:2840:C:C4	3.06	0.44
55:BA:3362:TEL:H7	55:BA:3362:TEL:H233	1.68	0.44
32:BB:7:G:H4'	44:BS:29:PHE:CD1	2.52	0.44
32:BB:46:A:C4	32:BB:47:C:C6	3.05	0.44
33:BD:237:GLU:HB3	33:BD:238:GLY:H	1.69	0.44
34:BE:132:HIS:HA	34:BE:135:HIS:CE1	2.52	0.44
34:BE:181:LEU:HD13	34:BE:181:LEU:HA	1.67	0.44
35:BF:13:SER:HA	35:BF:14:PRO:HD3	1.88	0.44
35:BF:81:PRO:CB	35:BF:89:VAL:HG23	2.47	0.44
36:BG:114:ILE:HA	36:BG:140:ILE:HD12	1.99	0.44
36:BG:151:ALA:O	36:BG:153:ARG:NH1	2.49	0.44
39:BN:3:THR:HA	39:BN:4:TYR:CE1	2.52	0.44
39:BN:5:VAL:HA	39:BN:6:PRO:HD3	1.76	0.44
39:BN:18:ALA:HB3	39:BN:26:LEU:CD2	2.40	0.44
39:BN:56:ASN:CA	39:BN:125:GLY:H	2.30	0.44
39:BN:67:LEU:O	39:BN:68:GLU:HB2	2.18	0.44
41:BP:146:VAL:CG1	41:BP:147:LEU:H	2.14	0.44
42:BQ:35:VAL:HG23	42:BQ:101:ARG:O	2.17	0.44
44:BS:27:SER:OG	44:BS:40:ILE:HD12	2.16	0.44
46:BU:36:ARG:NH1	46:BU:36:ARG:HG3	2.31	0.44
46:BU:92:ARG:O	46:BU:92:ARG:HG2	2.15	0.44
47:BV:23:GLU:OE2	47:BV:91:TYR:OH	2.21	0.44
48:BW:17:VAL:O	48:BW:18:ARG:C	2.56	0.44
48:BW:40:ASN:O	48:BW:40:ASN:CG	2.55	0.44
51:BZ:151:HIS:HB3	51:BZ:169:GLU:O	2.18	0.44
1:CA:126:G:H2'	1:CA:127:G:O5'	2.18	0.44
1:CA:147:G:O2'	1:CA:148:G:H5'	2.18	0.44
1:CA:195:A:N7	1:CA:196:A:C6	2.85	0.44
1:CA:349:A:C2	1:CA:350:G:C4	3.06	0.44
1:CA:373:A:C2	1:CA:374:A:C8	3.06	0.44
1:CA:597:G:C8	1:CA:598:U:C5	3.05	0.44
1:CA:955:U:O5'	1:CA:955:U:H6	2.01	0.44
1:CA:1126:U:H2'	1:CA:1127:G:O4'	2.17	0.44
1:CA:1137:C:H6	1:CA:1137:C:H3'	1.82	0.44
1:CA:1293:G:O2'	1:CA:1294:G:P	2.75	0.44
1:CA:1314:C:N4	19:CS:4:SER:N	2.65	0.44
1:CA:1503:A:O2'	1:CA:1504:G:C5'	2.66	0.44
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.19	0.44
12:CL:102:ARG:HD3	12:CL:108:ALA:O	2.16	0.44
13:CM:32:GLU:OE2	13:CM:64:TRP:CH2	2.69	0.44
16:CP:43:LYS:HB3	16:CP:48:TRP:CG	2.52	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:83:ARG:O	20:CT:86:ARG:HB3	2.17	0.44
20:CT:95:ALA:O	20:CT:96:GLY:C	2.55	0.44
23:D1:11:ARG:HG2	23:D1:61:ARG:O	2.17	0.44
24:D2:32:LEU:HA	24:D2:37:PHE:HB2	1.99	0.44
29:D7:15:THR:CG2	29:D7:16:HIS:CE1	3.00	0.44
30:D8:61:LEU:HD13	31:DA:593:G:O2'	2.18	0.44
30:D8:62:LEU:C	30:D8:64:TYR:H	2.20	0.44
31:DA:232:G:N2	31:DA:420:C:H5''	2.32	0.44
31:DA:271(N):U:H6	31:DA:271(N):U:OP1	2.01	0.44
31:DA:316:C:H2'	31:DA:317:G:O5'	2.18	0.44
31:DA:769:G:C2'	31:DA:770:G:H5'	2.47	0.44
31:DA:780:G:H21	31:DA:783:A:H62	1.64	0.44
31:DA:1024:G:C3'	31:DA:1025:G:H5''	2.40	0.44
31:DA:1301:A:O2'	31:DA:1303:G:N7	2.43	0.44
31:DA:1330:C:C2'	31:DA:1331:A:H5'	2.46	0.44
31:DA:1355:G:C6	31:DA:1356:G:C5	3.06	0.44
31:DA:1406:U:C2'	31:DA:1407:C:O5'	2.65	0.44
31:DA:1800:C:O2	31:DA:1802:A:C8	2.70	0.44
31:DA:1803:A:C2'	31:DA:1804:C:H5'	2.46	0.44
31:DA:1813:G:H4'	33:DD:44:ASN:O	2.17	0.44
31:DA:1935:G:H1	31:DA:1962:C:H2'	1.80	0.44
31:DA:2206:G:N3	31:DA:2207:G:H5'	2.31	0.44
31:DA:2620:C:H1'	34:DE:156:MET:HB2	1.99	0.44
31:DA:2785:C:H2'	31:DA:2786:U:O4'	2.17	0.44
32:DB:32:C:C2	32:DB:51:G:C2	3.05	0.44
33:DD:3:VAL:O	33:DD:3:VAL:HG12	2.16	0.44
33:DD:35:LYS:CD	33:DD:64:ILE:N	2.81	0.44
33:DD:186:HIS:CD2	33:DD:187:GLY:H	2.35	0.44
34:DE:96:PHE:N	34:DE:96:PHE:CD1	2.85	0.44
34:DE:110:GLY:HA3	34:DE:162:ALA:HB2	2.00	0.44
35:DF:158:THR:HG21	35:DF:160:ASN:HB3	1.99	0.44
36:DG:42:GLY:HA2	36:DG:89:GLY:HA2	1.98	0.44
36:DG:47:LYS:HE2	36:DG:81:LYS:HB2	2.00	0.44
36:DG:105:LYS:HZ2	36:DG:105:LYS:HB2	1.83	0.44
36:DG:114:ILE:CG1	36:DG:140:ILE:HD12	2.48	0.44
36:DG:138:GLN:O	36:DG:141:PHE:HD2	2.00	0.44
37:DH:92:ILE:C	37:DH:94:TYR:N	2.71	0.44
42:DQ:140:ALA:C	51:DZ:53:ILE:HB	2.38	0.44
43:DR:60:LEU:O	43:DR:63:ARG:HB3	2.18	0.44
45:DT:93:ARG:O	45:DT:94:ALA:O	2.35	0.44
46:DU:61:TRP:CZ3	46:DU:94:ASN:HB2	2.51	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:49:THR:HG22	47:DV:51:VAL:HG23	2.00	0.44
49:DX:60:ARG:HE	49:DX:74:PRO:HG3	1.79	0.44
51:DZ:146:ILE:HG22	51:DZ:174:VAL:HG12	1.99	0.44
1:AA:78:G:H22	1:AA:91:C:N4	2.16	0.44
1:AA:287:U:O2'	1:AA:288:A:H5'	2.18	0.44
1:AA:327:A:C6	1:AA:329:A:C5	3.06	0.44
1:AA:375:U:H2'	1:AA:376:G:C8	2.53	0.44
1:AA:685:G:O2'	1:AA:686:U:C5'	2.56	0.44
1:AA:757:U:H2'	1:AA:758:G:O4'	2.17	0.44
1:AA:830:G:H2'	1:AA:831:U:C6	2.51	0.44
1:AA:922:G:C5	1:AA:923:A:C5	3.06	0.44
1:AA:1046:A:N6	1:AA:1213:A:N1	2.60	0.44
1:AA:1077:G:N1	1:AA:1081:G:C6	2.86	0.44
1:AA:1462:G:H2'	1:AA:1463:C:H6	1.81	0.44
2:AB:22:LYS:NZ	2:AB:40:HIS:CE1	2.86	0.44
2:AB:59:GLU:O	2:AB:63:MET:HG2	2.17	0.44
3:AC:35:GLU:HG2	3:AC:39:ILE:HD11	2.00	0.44
3:AC:178:LEU:C	3:AC:180:ALA:H	2.21	0.44
5:AE:112:LEU:N	5:AE:112:LEU:HD23	2.33	0.44
5:AE:144:THR:O	5:AE:145:LYS:C	2.56	0.44
7:AG:13:GLN:O	7:AG:24:THR:HG21	2.18	0.44
7:AG:46:ALA:HB1	7:AG:121:ALA:HB2	2.00	0.44
10:AJ:52:GLY:C	10:AJ:54:PHE:H	2.21	0.44
12:AL:27:LEU:HD11	12:AL:64:TYR:CD1	2.52	0.44
12:AL:34:ARG:HG3	12:AL:105:TYR:CE1	2.52	0.44
13:AM:91:ARG:HD3	19:AS:81:ARG:HH21	1.82	0.44
19:AS:19:VAL:O	19:AS:19:VAL:HG12	2.17	0.44
23:B1:87:PRO:HD2	23:B1:88:LYS:HG3	1.99	0.44
24:B2:29:LYS:C	24:B2:33:MET:SD	2.96	0.44
27:B5:31:VAL:CG1	27:B5:42:PRO:HG3	2.47	0.44
29:B7:5:TRP:CH2	31:BA:686:G:N7	2.85	0.44
31:BA:253:C:C2'	31:BA:254:G:H5'	2.48	0.44
31:BA:478:A:H62	31:BA:502:A:N6	2.14	0.44
31:BA:573:G:O6	31:BA:2029:G:H2'	2.17	0.44
31:BA:631:A:O2'	41:BP:67:MET:CB	2.64	0.44
31:BA:721:C:H5'	31:BA:722:A:P	2.57	0.44
31:BA:790:C:H6	31:BA:790:C:H2'	1.59	0.44
31:BA:828:U:C5	31:BA:829:A:N6	2.85	0.44
31:BA:972:G:P	31:BA:974:G:H5''	2.58	0.44
31:BA:977:G:C6	31:BA:987:G:C6	3.06	0.44
31:BA:1116:C:C2'	31:BA:1117:G:H5'	2.48	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1190:G:H5'	31:BA:1190:G:H8	1.82	0.44
31:BA:1291:C:H2'	31:BA:1292:U:H6	1.82	0.44
31:BA:1313:U:H2'	31:BA:1610:A:N1	2.33	0.44
31:BA:1400:G:C6	31:BA:1401:G:C6	3.05	0.44
31:BA:1442:G:N2	31:BA:1443:G:C4	2.86	0.44
31:BA:1564:C:O2'	31:BA:1565:C:H5'	2.17	0.44
31:BA:1598:C:H2'	31:BA:1599:C:C6	2.53	0.44
31:BA:2075:U:H2'	31:BA:2238:G:H22	1.83	0.44
31:BA:2317:C:O2	31:BA:2318:G:O4'	2.35	0.44
31:BA:2478:A:H2'	31:BA:2479:G:O4'	2.17	0.44
31:BA:2663:G:H2'	31:BA:2664:G:C8	2.52	0.44
31:BA:2822:G:OP2	34:BE:110:GLY:O	2.36	0.44
31:BA:2880:C:HO2'	43:BR:90:ARG:HD3	1.81	0.44
32:BB:13:A:O2'	32:BB:15:A:O5'	2.35	0.44
32:BB:65:C:H41	32:BB:109:C:C2'	2.28	0.44
32:BB:110:G:C4	32:BB:111:G:C8	3.06	0.44
33:BD:181:GLU:O	33:BD:182:LEU:HD23	2.18	0.44
34:BE:2:LYS:HB3	34:BE:95:ILE:CG2	2.47	0.44
34:BE:2:LYS:HD3	34:BE:95:ILE:HG22	1.99	0.44
35:BF:31:HIS:HB2	41:BP:13:ASN:HB3	1.98	0.44
36:BG:92:VAL:HG22	36:BG:93:THR:N	2.22	0.44
38:BI:79:ILE:HA	38:BI:79:ILE:HD13	1.79	0.44
39:BN:128:HIS:CD2	39:BN:131:GLN:CB	3.01	0.44
45:BT:29:ARG:NE	45:BT:86:ILE:HG22	2.32	0.44
45:BT:82:LEU:HD12	45:BT:82:LEU:N	2.32	0.44
47:BV:15:GLU:CB	47:BV:16:PRO:HD2	2.46	0.44
47:BV:72:VAL:HA	47:BV:88:ARG:NH2	2.32	0.44
1:CA:67:C:H5'	1:CA:172:A:O2'	2.18	0.44
1:CA:189:G:C6	1:CA:189(A):C:C4	3.05	0.44
1:CA:304:U:H2'	1:CA:305:G:C8	2.52	0.44
1:CA:745:C:O2'	1:CA:746:A:H5'	2.18	0.44
1:CA:992:U:C1'	1:CA:993:G:OP2	2.60	0.44
1:CA:994:A:C2	14:CN:5:ALA:HA	2.52	0.44
2:CB:20:GLU:HG3	2:CB:191:ASP:HB2	1.99	0.44
2:CB:61:LEU:HG	2:CB:68:ILE:HD11	1.98	0.44
2:CB:84:GLU:O	2:CB:219:VAL:HG21	2.18	0.44
3:CC:15:THR:HG23	3:CC:181:ASN:HA	2.00	0.44
3:CC:75:VAL:HG12	3:CC:75:VAL:O	2.16	0.44
3:CC:186:PHE:CE2	3:CC:188:LEU:CD2	3.00	0.44
4:CD:60:GLU:O	4:CD:63:LYS:HB3	2.17	0.44
6:CF:15:ASP:C	6:CF:17:SER:H	2.21	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:12:LEU:HD13	7:CG:24:THR:OG1	2.18	0.44
7:CG:85:TYR:CD1	7:CG:154:TYR:CE1	3.04	0.44
10:CJ:99:LYS:HD3	10:CJ:99:LYS:HA	1.78	0.44
11:CK:95:ILE:HG23	11:CK:108:ILE:HD11	1.99	0.44
12:CL:21:LYS:HD2	12:CL:21:LYS:N	2.32	0.44
12:CL:93:LEU:HD23	12:CL:93:LEU:HA	1.75	0.44
16:CP:21:VAL:O	16:CP:33:ILE:HB	2.18	0.44
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.51	0.44
19:CS:27:GLU:HB3	19:CS:28:LYS:H	1.58	0.44
23:D1:10:LYS:CB	23:D1:14:VAL:H	2.26	0.44
23:D1:47:GLN:OE1	23:D1:47:GLN:C	2.56	0.44
23:D1:83:GLU:O	23:D1:83:GLU:HG3	2.17	0.44
24:D2:28:LYS:HG3	24:D2:37:PHE:CE1	2.52	0.44
24:D2:30:ARG:H	24:D2:30:ARG:CD	2.12	0.44
24:D2:49:LYS:NZ	24:D2:53:LEU:CD2	2.76	0.44
25:D3:31:LEU:HD23	25:D3:31:LEU:HA	1.80	0.44
25:D3:45:GLY:HA3	31:DA:852:G:H5'	1.99	0.44
28:D6:42:TRP:CZ2	31:DA:643:A:OP1	2.70	0.44
31:DA:55:G:O2'	31:DA:56:A:H5'	2.17	0.44
31:DA:199:A:C6	31:DA:2434:A:C6	3.05	0.44
31:DA:253:C:C2'	31:DA:254:G:H5'	2.48	0.44
31:DA:327:G:N2	31:DA:336:C:C2	2.85	0.44
31:DA:339:U:H6	31:DA:339:U:O5'	2.00	0.44
31:DA:384:U:H2'	31:DA:385:C:C6	2.52	0.44
31:DA:479:A:HO2'	31:DA:481:G:H8	1.61	0.44
31:DA:526:A:O2'	31:DA:2043:C:H2'	2.17	0.44
31:DA:642:G:N2	31:DA:646:A:H2	2.14	0.44
31:DA:663:G:H2'	31:DA:664:C:H6	1.82	0.44
31:DA:718:A:H3'	31:DA:719:C:C6	2.53	0.44
31:DA:953:A:N3	31:DA:954:G:C8	2.85	0.44
31:DA:960:A:C2	31:DA:2495:G:O2'	2.70	0.44
31:DA:1144:G:C6	31:DA:1145:C:N4	2.85	0.44
31:DA:1156:A:H4'	31:DA:1157:G:OP2	2.18	0.44
31:DA:1199:U:H2'	31:DA:1200:C:C6	2.52	0.44
31:DA:1349:A:N6	31:DA:1598:C:H42	2.14	0.44
31:DA:1671:U:O2'	31:DA:1673:U:H5	2.01	0.44
31:DA:1827:C:O2'	31:DA:1970:A:H1'	2.18	0.44
31:DA:2771:C:H2'	31:DA:2772:C:H6	1.82	0.44
31:DA:2859:G:H3'	31:DA:2859:G:H8	1.79	0.44
32:DB:105:A:O4'	51:DZ:29:TYR:HE1	2.00	0.44
33:DD:53:PHE:O	33:DD:218:ARG:N	2.47	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:166:GLN:NE2	33:DD:166:GLN:HA	2.33	0.44
35:DF:39:TRP:HB2	35:DF:101:LEU:HD22	1.99	0.44
36:DG:152:LEU:O	36:DG:153:ARG:HB2	2.17	0.44
39:DN:2:LYS:O	39:DN:4:TYR:CE1	2.71	0.44
41:DP:81:GLN:HB3	41:DP:106:LEU:HD12	1.99	0.44
43:DR:17:ARG:HG2	43:DR:21:TYR:CE1	2.53	0.44
43:DR:55:ALA:HB2	43:DR:79:LEU:HD11	2.00	0.44
44:DS:83:LYS:HE2	44:DS:84:GLN:HE22	1.83	0.44
45:DT:109:GLU:O	45:DT:110:ILE:C	2.55	0.44
49:DX:16:LYS:O	49:DX:19:ALA:HB3	2.18	0.44
50:DY:11:ASP:H	50:DY:27:VAL:HA	1.83	0.44
51:DZ:92:SER:HB2	51:DZ:94:GLU:H	1.82	0.44
1:AA:109:A:H4'	1:AA:110:C:OP2	2.18	0.44
1:AA:110:C:O2'	16:AP:25:ARG:O	2.28	0.44
1:AA:152:A:N6	1:AA:170:U:C2	2.85	0.44
1:AA:230:G:H2'	1:AA:231:G:O4'	2.17	0.44
1:AA:487:A:H3'	1:AA:488:C:H6	1.81	0.44
1:AA:533:A:H1'	1:AA:534:U:OP1	2.18	0.44
1:AA:565:U:C4	1:AA:566:G:C5	3.06	0.44
1:AA:584:G:H8	1:AA:584:G:O5'	2.01	0.44
1:AA:679:C:H42	1:AA:711:G:H1	1.66	0.44
1:AA:920:U:C1'	1:AA:1080:A:C2	2.99	0.44
1:AA:994:A:C2	14:AN:5:ALA:HA	2.53	0.44
1:AA:1255:G:H5'	1:AA:1256:A:OP1	2.18	0.44
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.17	0.44
8:AH:11:THR:HG22	8:AH:15:ASN:HD22	1.83	0.44
8:AH:120:THR:OG1	8:AH:123:GLU:HG3	2.17	0.44
9:AI:112:LYS:HG2	9:AI:119:ALA:N	2.29	0.44
12:AL:26:ALA:O	12:AL:27:LEU:HB2	2.18	0.44
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.33	0.44
16:AP:21:VAL:HG22	16:AP:34:GLU:O	2.18	0.44
17:AQ:43:LEU:O	17:AQ:69:LYS:HG3	2.18	0.44
17:AQ:59:ILE:HG22	17:AQ:71:PHE:HD1	1.82	0.44
20:AT:30:LYS:HG3	20:AT:34:LYS:CE	2.47	0.44
23:B1:67:ILE:N	23:B1:68:PRO:CD	2.80	0.44
25:B3:31:LEU:HD23	25:B3:31:LEU:HA	1.79	0.44
30:B8:22:VAL:HB	30:B8:53:PRO:HB2	1.97	0.44
30:B8:29:LYS:O	30:B8:30:ARG:C	2.55	0.44
31:BA:211:A:O2'	31:BA:212:G:H5'	2.18	0.44
31:BA:250:G:C5	31:BA:251:A:C5	3.06	0.44
31:BA:271(N):U:OP1	31:BA:271(N):U:C6	2.71	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:272:G:O4'	31:BA:272(B):G:O5'	2.36	0.44
31:BA:340:A:C2'	31:BA:341:G:H5'	2.47	0.44
31:BA:371:A:O3'	31:BA:372:G:H4'	2.17	0.44
31:BA:476:G:N2	31:BA:478:A:H3'	2.32	0.44
31:BA:784:A:C5	33:BD:229:VAL:CG2	3.01	0.44
31:BA:790:C:O2'	31:BA:791:C:H5'	2.17	0.44
31:BA:838:C:C2'	31:BA:839:U:H5'	2.47	0.44
31:BA:985:C:H2'	31:BA:986:C:H6	1.82	0.44
31:BA:1042:G:H3'	31:BA:1043:C:O4'	2.17	0.44
31:BA:1142:U:H5''	31:BA:1142(A):A:H5''	2.00	0.44
31:BA:1170:G:H8	31:BA:1170:G:OP2	2.01	0.44
31:BA:1247:A:C2	31:BA:1249:U:C6	3.05	0.44
31:BA:1374:G:C5	31:BA:1375:C:C4	3.05	0.44
31:BA:1478:G:O2'	31:BA:1479:G:H5'	2.18	0.44
31:BA:1480:G:C6	31:BA:1481:U:N3	2.86	0.44
31:BA:1491:G:C6	31:BA:1500:G:C2	3.06	0.44
31:BA:1662:C:C2'	31:BA:1663:C:H5'	2.48	0.44
31:BA:1709:U:O2'	31:BA:2859:G:H1'	2.18	0.44
31:BA:1758:G:H4'	31:BA:1759:A:OP2	2.18	0.44
31:BA:2015:A:C2'	31:BA:2016:U:H5'	2.48	0.44
31:BA:2287:A:C4	31:BA:2289:G:N7	2.86	0.44
31:BA:2316:C:C6	31:BA:2317:C:H5	2.36	0.44
31:BA:2649:U:C2	31:BA:2672:G:N2	2.85	0.44
31:BA:2840:C:H2'	31:BA:2841:C:C6	2.53	0.44
32:BB:33:G:C6	32:BB:50:G:C6	3.06	0.44
32:BB:80:U:H2'	32:BB:81:G:N2	2.28	0.44
33:BD:70:TRP:CZ3	33:BD:150:LYS:HA	2.52	0.44
33:BD:255:LYS:O	33:BD:255:LYS:HD2	2.18	0.44
34:BE:11:MET:HB3	34:BE:24:THR:HB	2.00	0.44
34:BE:24:THR:HG21	34:BE:188:VAL:CG1	2.48	0.44
35:BF:28:ILE:H	35:BF:28:ILE:CD1	2.18	0.44
35:BF:122:LYS:HD3	35:BF:122:LYS:N	2.32	0.44
37:BH:151:ILE:HB	37:BH:162:ILE:HD11	1.99	0.44
37:BH:153:LYS:N	37:BH:153:LYS:CD	2.80	0.44
38:BI:79:ILE:HG23	38:BI:80:PRO:HD2	1.98	0.44
38:BI:113:ARG:HB2	38:BI:130:TYR:CE1	2.52	0.44
39:BN:78:TYR:CD1	39:BN:79:PRO:CG	3.01	0.44
39:BN:78:TYR:CD1	39:BN:79:PRO:CD	2.90	0.44
41:BP:57:THR:HB	41:BP:59:LEU:H	1.80	0.44
42:BQ:34:LEU:CD1	42:BQ:129:THR:HB	2.46	0.44
42:BQ:78:PRO:O	42:BQ:79:LEU:CB	2.63	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:43:GLU:HA	43:BR:43:GLU:OE2	2.18	0.44
46:BU:83:LEU:CB	46:BU:88:ILE:HD11	2.42	0.44
51:BZ:51:ALA:O	51:BZ:52:SER:HB3	2.17	0.44
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.17	0.44
1:CA:298:A:H2'	1:CA:299:G:O4'	2.18	0.44
1:CA:343:U:C2'	1:CA:346:G:O6	2.65	0.44
1:CA:396:G:C2	1:CA:398:C:C4	3.06	0.44
1:CA:874:G:H2'	1:CA:875:C:C6	2.53	0.44
1:CA:999:C:H2'	1:CA:1000:U:C6	2.53	0.44
1:CA:1054:C:OP1	1:CA:1197:G:OP2	2.36	0.44
1:CA:1067:A:O2'	1:CA:1068:G:OP2	2.34	0.44
1:CA:1200:C:O5'	1:CA:1201:A:H3'	2.17	0.44
1:CA:1235:U:H2'	1:CA:1236:A:O4'	2.17	0.44
1:CA:1259:C:H42	1:CA:1276:G:H1	1.66	0.44
1:CA:1277:C:O2'	1:CA:1279:A:H1'	2.17	0.44
1:CA:1495:U:C4	1:CA:1496:C:N4	2.86	0.44
2:CB:163:PHE:CD2	2:CB:185:ILE:HG13	2.53	0.44
14:CN:51:GLY:C	14:CN:53:LEU:N	2.71	0.44
23:D1:25:LYS:C	23:D1:26:ARG:CG	2.84	0.44
23:D1:87:PRO:C	23:D1:91:LYS:HD2	2.37	0.44
30:D8:22:VAL:O	30:D8:49:VAL:HG23	2.17	0.44
31:DA:118:A:H3'	31:DA:119:A:H5''	2.00	0.44
31:DA:210:C:H4'	31:DA:1367:A:H1'	1.98	0.44
31:DA:340:A:C2'	31:DA:341:G:H5'	2.47	0.44
31:DA:384:U:C5	31:DA:385:C:C5	3.06	0.44
31:DA:513:A:N1	31:DA:514:A:C5	2.85	0.44
31:DA:572:A:N3	31:DA:573:G:H1'	2.32	0.44
31:DA:581:C:H2'	31:DA:582:G:H8	1.82	0.44
31:DA:738:G:H1'	31:DA:759:G:N2	2.33	0.44
31:DA:864:G:C5	31:DA:865:C:C5	3.06	0.44
31:DA:884:C:H3'	31:DA:884:C:H6	1.82	0.44
31:DA:919:G:H5'	32:DB:81:G:C1'	2.47	0.44
31:DA:1286:A:C6	31:DA:1329:U:C2	3.05	0.44
31:DA:1324:G:C4	31:DA:1328:G:O6	2.70	0.44
31:DA:1675:C:N3	34:DE:128:SER:OG	2.49	0.44
31:DA:1714:G:N2	31:DA:1717:G:C4	2.86	0.44
31:DA:1799:G:H5'	31:DA:1819:A:H61	1.83	0.44
31:DA:1854:A:H2'	31:DA:1855:G:O4'	2.17	0.44
31:DA:2261:C:O5'	31:DA:2261:C:H6	2.01	0.44
31:DA:2334:G:N3	44:DS:15:ARG:NH1	2.65	0.44
31:DA:2476:A:C6	31:DA:2477:C:C4	3.05	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2556:C:H2'	31:DA:2557:G:C5'	2.48	0.44
31:DA:2827:C:H2'	31:DA:2828:C:C6	2.53	0.44
33:DD:3:VAL:N	33:DD:20:ASP:HB2	2.31	0.44
33:DD:215:LEU:CD1	33:DD:217:ARG:HH21	2.31	0.44
34:DE:36:ARG:HH11	34:DE:85:ASN:ND2	2.15	0.44
35:DF:46:ARG:NH1	35:DF:46:ARG:HB2	2.32	0.44
35:DF:65:TRP:HZ3	35:DF:75:HIS:CD2	2.19	0.44
36:DG:16:ARG:CG	36:DG:16:ARG:NH1	2.79	0.44
36:DG:71:THR:HB	36:DG:89:GLY:N	2.32	0.44
39:DN:42:TRP:CD1	46:DU:64:ARG:NH1	2.86	0.44
39:DN:46:VAL:HG13	39:DN:48:MET:HG3	2.00	0.44
39:DN:65:LYS:O	39:DN:69:GLN:CB	2.44	0.44
39:DN:65:LYS:HD2	39:DN:67:LEU:HB2	1.98	0.44
41:DP:14:LYS:O	41:DP:15:ARG:CB	2.65	0.44
41:DP:90:ARG:O	41:DP:90:ARG:NH1	2.46	0.44
43:DR:10:LEU:HD22	43:DR:17:ARG:HD2	2.00	0.44
44:DS:87:PHE:HZ	44:DS:97:ARG:HH22	1.64	0.44
45:DT:26:ASP:C	45:DT:26:ASP:OD2	2.56	0.44
49:DX:36:LYS:C	49:DX:38:GLU:N	2.71	0.44
50:DY:31:LEU:CB	50:DY:32:PRO:HA	2.31	0.44
51:DZ:44:PHE:HE2	51:DZ:88:PHE:CZ	2.35	0.44
51:DZ:54:HIS:O	51:DZ:55:HIS:CG	2.70	0.44
51:DZ:157:LEU:HA	51:DZ:158:PRO:HD2	1.89	0.44
1:AA:113:G:O2'	1:AA:114:U:H5'	2.18	0.44
1:AA:189(F):U:C2	17:AQ:72:ARG:NH1	2.85	0.44
1:AA:294:U:H2'	1:AA:295:C:H6	1.81	0.44
1:AA:414:A:C4	1:AA:415:A:C8	3.06	0.44
1:AA:652:U:C4	1:AA:752:G:N3	2.86	0.44
1:AA:677:U:C2'	1:AA:678:U:H5'	2.47	0.44
1:AA:682:G:C6	1:AA:683:G:N7	2.86	0.44
1:AA:706:A:H2	11:AK:42:TRP:CD1	2.35	0.44
1:AA:872:A:C4	1:AA:874:G:C8	3.05	0.44
1:AA:957:U:H2'	1:AA:959:A:N7	2.33	0.44
1:AA:973:G:C4	10:AJ:55:LYS:HE2	2.52	0.44
1:AA:1084:G:N7	1:AA:1085:U:N3	2.66	0.44
1:AA:1271:G:H5'	1:AA:1314:C:C5'	2.46	0.44
1:AA:1315:U:O4	1:AA:1316:G:C2	2.71	0.44
1:AA:1480:G:C5	1:AA:1481:U:C5	3.06	0.44
2:AB:71:VAL:HB	2:AB:164:VAL:HG22	1.99	0.44
2:AB:97:TRP:CH2	2:AB:176:GLU:OE2	2.71	0.44
5:AE:12:LEU:O	5:AE:13:ILE:HD12	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:33:GLU:O	8:AH:34:GLU:C	2.56	0.44
10:AJ:51:ARG:HG2	10:AJ:61:GLU:HB2	1.99	0.44
11:AK:31:THR:O	11:AK:31:THR:HG23	2.17	0.44
11:AK:94:ALA:O	11:AK:98:LEU:HG	2.18	0.44
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.96	0.44
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.18	0.44
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.51	0.44
18:AR:71:LYS:O	18:AR:74:ARG:HB2	2.18	0.44
20:AT:92:LEU:C	20:AT:94:ALA:H	2.21	0.44
22:B0:41:ARG:HB2	31:BA:2330:G:O2'	2.17	0.44
22:B0:57:PHE:HE2	31:BA:2386:C:O4'	2.00	0.44
22:B0:60:PHE:CZ	31:BA:2365:G:H4'	2.52	0.44
24:B2:54:LYS:N	24:B2:56:GLN:HG2	2.32	0.44
31:BA:54:G:N2	31:BA:126:A:C2	2.86	0.44
31:BA:199:A:C8	31:BA:2433:A:C6	3.06	0.44
31:BA:245:G:C5	31:BA:246:C:C5	3.06	0.44
31:BA:272(H):C:N4	31:BA:363(C):G:H1	2.16	0.44
31:BA:563:G:H1	31:BA:578:A:H61	1.66	0.44
31:BA:764:A:OP1	33:BD:208:LYS:HE2	2.17	0.44
31:BA:847:U:H2'	31:BA:848:G:C5'	2.43	0.44
31:BA:1048:A:OP2	31:BA:1109:C:N4	2.51	0.44
31:BA:1115:G:C2	31:BA:1116:C:C4	3.06	0.44
31:BA:1289:C:O2'	31:BA:1290:C:H5'	2.18	0.44
31:BA:1363:C:H2'	31:BA:1364:G:C8	2.53	0.44
31:BA:1501:C:H2'	31:BA:1502:C:C6	2.37	0.44
31:BA:1722:A:C5	31:BA:1741:A:N1	2.85	0.44
31:BA:2008:C:H2'	31:BA:2009:G:C8	2.49	0.44
31:BA:2291:U:O2'	31:BA:2374:C:O2	2.35	0.44
31:BA:2335:A:N7	31:BA:2337:G:C5	2.86	0.44
31:BA:2530:A:C2'	31:BA:2531:A:H5''	2.47	0.44
31:BA:2592:G:H2'	31:BA:2593:U:O4'	2.17	0.44
31:BA:2637:U:O2'	31:BA:2638:G:H5'	2.17	0.44
31:BA:2809:A:O2'	31:BA:2810:A:H5'	2.17	0.44
32:BB:75:G:N3	51:BZ:85:HIS:CE1	2.86	0.44
33:BD:134:ARG:HG3	33:BD:187:GLY:HA3	2.00	0.44
33:BD:246:PRO:HB2	33:BD:255:LYS:CG	2.47	0.44
34:BE:9:VAL:HG22	34:BE:25:VAL:O	2.17	0.44
34:BE:69:LYS:C	34:BE:71:GLY:H	2.20	0.44
35:BF:39:TRP:CZ3	35:BF:106:ARG:HD2	2.52	0.44
35:BF:89:VAL:CG1	35:BF:90:PHE:N	2.71	0.44
35:BF:157:VAL:HA	35:BF:176:LEU:O	2.17	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:11:TYR:CD2	36:BG:12:TYR:CD1	3.06	0.44
36:BG:11:TYR:HA	36:BG:15:VAL:HB	2.00	0.44
37:BH:70:THR:HG22	37:BH:71:LEU:H	1.83	0.44
39:BN:36:GLY:O	39:BN:39:ARG:N	2.47	0.44
42:BQ:47:ILE:HG12	42:BQ:68:ILE:CD1	2.48	0.44
43:BR:87:TYR:O	43:BR:89:ASP:N	2.51	0.44
43:BR:96:ARG:NH2	43:BR:117:VAL:HG23	2.30	0.44
45:BT:54:ARG:HA	45:BT:59:THR:CB	2.48	0.44
45:BT:109:GLU:C	45:BT:113:LYS:HE3	2.38	0.44
49:BX:60:ARG:CD	49:BX:74:PRO:HD2	2.47	0.44
1:CA:20:U:H2'	1:CA:21:G:O4'	2.17	0.44
1:CA:190:U:O2'	1:CA:191:G:H5'	2.17	0.44
1:CA:256:U:H2'	1:CA:257:G:H8	1.82	0.44
1:CA:391:G:C6	1:CA:392:G:C5	3.06	0.44
1:CA:405:U:O2'	1:CA:498:U:H5'	2.18	0.44
1:CA:458:C:C2'	1:CA:460:G:H8	2.30	0.44
1:CA:602:A:C2	1:CA:603:U:C2	3.06	0.44
1:CA:682:G:N3	1:CA:709:G:C2	2.86	0.44
1:CA:687:A:N1	1:CA:704:A:C5	2.85	0.44
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.53	0.44
2:CB:11:LEU:O	2:CB:16:HIS:CE1	2.70	0.44
2:CB:214:ILE:O	2:CB:218:ALA:HB2	2.17	0.44
6:CF:3:ARG:HG3	6:CF:3:ARG:NH1	2.29	0.44
6:CF:99:ALA:HB1	18:CR:23:LYS:NZ	2.31	0.44
7:CG:79:ARG:HG2	7:CG:84:ASN:HD21	1.82	0.44
9:CI:26:VAL:HG13	9:CI:61:ALA:HB3	2.00	0.44
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.32	0.44
12:CL:86:ARG:HB2	12:CL:101:VAL:HG22	1.98	0.44
24:D2:52:ASP:OD1	31:DA:72:U:O2	2.35	0.44
25:D3:8:LEU:HD22	25:D3:8:LEU:C	2.38	0.44
29:D7:19:ARG:HG2	29:D7:19:ARG:NH1	2.32	0.44
30:D8:37:SER:HB2	30:D8:38:GLY:H	1.47	0.44
31:DA:71:A:N7	31:DA:73:A:C2	2.85	0.44
31:DA:343:C:C2'	31:DA:343:C:O2	2.66	0.44
31:DA:384:U:C6	31:DA:385:C:H5	2.35	0.44
31:DA:534:U:C4	31:DA:535:C:N4	2.86	0.44
31:DA:579:G:C8	31:DA:2017:U:C4	3.06	0.44
31:DA:608:A:C6	31:DA:609:A:C6	3.06	0.44
31:DA:706:A:C2'	31:DA:707:G:H5'	2.48	0.44
31:DA:753:C:H2'	31:DA:754:C:C6	2.52	0.44
31:DA:778:G:H2'	31:DA:779:U:C6	2.53	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:957:A:C6	31:DA:959:A:C4	3.05	0.44
31:DA:1223:G:N2	31:DA:1226:A:OP2	2.49	0.44
31:DA:1297:C:H2'	31:DA:1298:C:C6	2.51	0.44
31:DA:1303:G:N2	31:DA:1304:C:C2	2.85	0.44
31:DA:1415:U:H2'	31:DA:1416:G:H4'	2.00	0.44
31:DA:1484:G:O2'	31:DA:1485:G:C4'	2.66	0.44
31:DA:1795:C:O2'	31:DA:1796:U:H5'	2.18	0.44
31:DA:1921:G:C4	31:DA:1922:G:C8	3.05	0.44
31:DA:1993:U:C5	31:DA:1994:C:C5	3.05	0.44
31:DA:2006:C:O5'	31:DA:2006:C:H6	2.00	0.44
31:DA:2008:C:H2'	31:DA:2009:G:C8	2.50	0.44
31:DA:2260:C:O2'	31:DA:2261:C:H5'	2.18	0.44
31:DA:2271:G:H8	31:DA:2271:G:O5'	2.00	0.44
31:DA:2674:G:H2'	31:DA:2675:A:O4'	2.18	0.44
31:DA:2779:U:C2	31:DA:2781:A:C2	3.06	0.44
31:DA:2815:C:H2'	31:DA:2816:C:C6	2.53	0.44
31:DA:2850:A:H2'	31:DA:2851:A:O4'	2.18	0.44
32:DB:21:G:O2'	32:DB:22:U:O5'	2.35	0.44
32:DB:29:A:H2'	32:DB:30:C:C6	2.53	0.44
32:DB:58:A:H5''	32:DB:59:A:OP2	2.18	0.44
33:DD:248:SER:HB2	33:DD:249:PRO:HD2	1.99	0.44
35:DF:65:TRP:O	35:DF:66:PRO:C	2.56	0.44
35:DF:70:THR:HB	35:DF:72:ARG:H	1.83	0.44
35:DF:127:GLU:OE1	35:DF:127:GLU:CA	2.65	0.44
36:DG:59:GLU:OE2	36:DG:144:ILE:HD11	2.17	0.44
36:DG:73:ALA:HB3	36:DG:85:GLY:O	2.18	0.44
38:DI:19:VAL:HG22	38:DI:20:ASP:H	1.82	0.44
40:DO:103:ALA:O	40:DO:106:LEU:HB2	2.17	0.44
41:DP:140:ALA:O	41:DP:141:ALA:HB2	2.17	0.44
42:DQ:8:LYS:CD	42:DQ:9:TYR:N	2.73	0.44
42:DQ:9:TYR:O	42:DQ:9:TYR:HD2	1.93	0.44
42:DQ:134:ARG:HB3	42:DQ:135:ASP:H	1.50	0.44
46:DU:88:ILE:CA	46:DU:90:VAL:HG23	2.48	0.44
49:DX:35:THR:O	49:DX:39:ILE:CG2	2.66	0.44
51:DZ:100:VAL:CG1	51:DZ:137:ILE:HG12	2.48	0.44
51:DZ:108:PRO:HA	51:DZ:142:SER:O	2.18	0.44
51:DZ:115:GLY:HA2	51:DZ:177:PRO:HD3	2.00	0.44
51:DZ:140:ASP:OD2	51:DZ:140:ASP:N	2.46	0.44
1:AA:17:U:H1'	1:AA:1080:A:H1'	2.00	0.44
1:AA:66:G:C4'	1:AA:173:U:C4	3.01	0.44
1:AA:67:C:H5'	1:AA:172:A:O2'	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:155:C:H2'	1:AA:156:G:H8	1.82	0.44
1:AA:192:U:H4'	20:AT:57:ARG:CD	2.39	0.44
1:AA:234:C:O2	1:AA:235:C:C6	2.70	0.44
1:AA:563:A:C6	1:AA:567:G:C4	3.06	0.44
1:AA:563:A:C6	1:AA:567:G:N3	2.86	0.44
1:AA:563:A:C6	1:AA:567:G:C2	3.06	0.44
1:AA:682:G:C4	1:AA:683:G:C8	3.06	0.44
1:AA:734:G:O2'	18:AR:71:LYS:HD3	2.18	0.44
1:AA:833:U:O2	1:AA:854:G:C2	2.71	0.44
1:AA:896:C:O2'	1:AA:897:C:H5'	2.18	0.44
1:AA:924:C:O5'	1:AA:924:C:H6	2.00	0.44
1:AA:995:C:O2'	1:AA:996:A:H5'	2.18	0.44
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	2.00	0.44
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.18	0.44
2:AB:8:LYS:O	2:AB:12:GLU:CD	2.55	0.44
4:AD:3:ARG:HD3	4:AD:5:ILE:CG1	2.47	0.44
4:AD:74:GLN:HA	4:AD:77:ASN:HB2	2.00	0.44
4:AD:176:LEU:CG	4:AD:178:VAL:HG22	2.48	0.44
5:AE:10:MET:SD	5:AE:13:ILE:HD13	2.57	0.44
5:AE:13:ILE:CG2	5:AE:14:ARG:N	2.81	0.44
5:AE:34:VAL:O	5:AE:41:VAL:HG12	2.17	0.44
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.81	0.44
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.18	0.44
15:AO:9:GLN:HA	15:AO:12:ILE:HD12	1.99	0.44
16:AP:8:ARG:HA	16:AP:17:TYR:HA	1.99	0.44
16:AP:75:ARG:HA	16:AP:80:PHE:HD1	1.82	0.44
20:AT:67:ALA:HB2	20:AT:77:ALA:HB2	1.99	0.44
24:B2:26:ARG:HG3	49:BX:5:TYR:CB	2.45	0.44
27:B5:8:LYS:O	31:BA:2017:U:H4'	2.17	0.44
31:BA:7:G:C2'	31:BA:8:A:O4'	2.62	0.44
31:BA:301:G:C6	31:BA:317:G:C6	3.06	0.44
31:BA:422:A:H2'	31:BA:423:A:O4'	2.18	0.44
31:BA:663:G:C5	31:BA:664:C:C5	3.05	0.44
31:BA:733:G:H8	31:BA:733:G:O5'	2.01	0.44
31:BA:892:G:C5	31:BA:893:C:C5	3.06	0.44
31:BA:917:A:H2'	31:BA:918:A:O4'	2.18	0.44
31:BA:1124:C:N4	31:BA:1125:G:C6	2.86	0.44
31:BA:1141:U:OP2	39:BN:63:THR:OG1	2.24	0.44
31:BA:1287:A:C5	31:BA:1288:U:C4	3.05	0.44
31:BA:1455:G:C2'	31:BA:1456:G:H5'	2.48	0.44
31:BA:1493:C:O2	31:BA:1493:C:C2'	2.65	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1881:C:H3'	31:BA:1882:C:H6	1.81	0.44
31:BA:2191:G:HO2'	31:BA:2192:G:P	2.41	0.44
31:BA:2360:A:O2'	31:BA:2361:A:O5'	2.36	0.44
31:BA:2464:C:O2'	31:BA:2465:C:OP2	2.35	0.44
31:BA:2472:G:C2	31:BA:2477:C:OP1	2.71	0.44
31:BA:2530:A:C3'	31:BA:2531:A:H5''	2.48	0.44
31:BA:2839:G:H5'	43:BR:46:GLY:HA2	2.00	0.44
32:BB:23:G:C2	32:BB:24:G:O6	2.71	0.44
33:BD:65:ILE:HD13	33:BD:65:ILE:O	2.18	0.44
33:BD:242:ARG:CB	33:BD:244:ARG:H	2.31	0.44
33:BD:246:PRO:HG2	33:BD:255:LYS:HG2	1.99	0.44
34:BE:7:VAL:HG12	34:BE:51:PHE:CE1	2.53	0.44
34:BE:61:ARG:C	34:BE:63:LEU:H	2.21	0.44
35:BF:46:ARG:HH11	35:BF:46:ARG:HB3	1.82	0.44
35:BF:160:ASN:ND2	35:BF:162:LEU:N	2.66	0.44
36:BG:88:ILE:CG2	36:BG:89:GLY:N	2.80	0.44
41:BP:58:THR:C	41:BP:61:ARG:HD2	2.38	0.44
42:BQ:53:ALA:O	42:BQ:56:ARG:HB3	2.18	0.44
1:CA:15:G:C4	1:CA:16:A:C8	3.05	0.44
1:CA:19:C:H5''	5:CE:86:ALA:HB3	1.99	0.44
1:CA:51:A:N1	1:CA:116:A:C4	2.85	0.44
1:CA:60:A:P	1:CA:60:A:C8	3.11	0.44
1:CA:355:C:C2	1:CA:356:A:C8	3.06	0.44
1:CA:389:A:C2'	1:CA:390:C:H5'	2.41	0.44
1:CA:414:A:C4	1:CA:415:A:C8	3.06	0.44
1:CA:521:G:O6	1:CA:529:G:C2	2.71	0.44
1:CA:718:G:H1	18:CR:74:ARG:HH22	1.64	0.44
1:CA:730:G:O2'	1:CA:766:A:H5'	2.18	0.44
1:CA:921:U:O4'	1:CA:922:G:C5	2.70	0.44
1:CA:973:G:C4	10:CJ:55:LYS:HE2	2.53	0.44
1:CA:1056:U:O2'	1:CA:1057:G:H5'	2.18	0.44
1:CA:1410:G:C4	1:CA:1491:G:N2	2.86	0.44
2:CB:168:THR:HG21	2:CB:192:SER:HA	2.00	0.44
2:CB:194:PRO:HB2	2:CB:195:ASP:H	1.60	0.44
3:CC:138:VAL:CG2	3:CC:151:VAL:HG23	2.47	0.44
4:CD:38:TYR:O	4:CD:38:TYR:HD1	2.01	0.44
4:CD:78:LEU:O	4:CD:79:PHE:C	2.55	0.44
7:CG:105:VAL:O	7:CG:109:ASN:ND2	2.50	0.44
8:CH:112:LEU:HD12	8:CH:112:LEU:O	2.18	0.44
13:CM:15:VAL:CG2	13:CM:41:PRO:HA	2.47	0.44
13:CM:17:VAL:O	13:CM:20:THR:HB	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:91:ARG:HD3	19:CS:81:ARG:HH21	1.83	0.44
17:CQ:52:LYS:HE3	17:CQ:52:LYS:HB3	1.83	0.44
22:D0:39:ARG:NH2	31:DA:2363:C:O2	2.47	0.44
25:D3:39:ASP:O	25:D3:39:ASP:CG	2.56	0.44
29:D7:8:ASN:ND2	29:D7:11:LYS:H	2.16	0.44
30:D8:6:THR:HG21	31:DA:243:U:OP1	2.18	0.44
30:D8:32:LEU:HB3	30:D8:34:TRP:N	2.32	0.44
31:DA:9:U:C6	31:DA:2629:A:N6	2.86	0.44
31:DA:268:C:H2'	31:DA:269:U:O4'	2.18	0.44
31:DA:388:G:C6	31:DA:390:A:C2	3.06	0.44
31:DA:856:C:H4'	31:DA:857:C:OP1	2.17	0.44
31:DA:892:G:N3	31:DA:892:G:C3'	2.79	0.44
31:DA:909:A:C4	31:DA:912:C:C5	3.06	0.44
31:DA:921:G:H2'	31:DA:922:U:H6	1.79	0.44
31:DA:1048:A:OP2	31:DA:1109:C:N4	2.51	0.44
31:DA:1356:G:C6	31:DA:1357:U:C4	3.06	0.44
31:DA:1405:U:C2	31:DA:1406:U:C5	3.06	0.44
31:DA:1429:G:C4	31:DA:1430:C:C5	3.05	0.44
31:DA:1515:G:C4	31:DA:1516:C:C5	3.05	0.44
31:DA:1778:U:C2'	31:DA:1784:A:N6	2.69	0.44
31:DA:1839:G:C5'	31:DA:1839:G:H8	2.31	0.44
31:DA:2007:C:O2	31:DA:2007:C:H2'	2.18	0.44
31:DA:2076:U:C5	31:DA:2596:U:C2	3.06	0.44
31:DA:2223:G:H2'	31:DA:2224:G:C5'	2.48	0.44
31:DA:2489:G:C5	31:DA:2490:G:C6	3.05	0.44
31:DA:2521:C:H5''	31:DA:2522:U:OP2	2.18	0.44
31:DA:2670:A:C2'	31:DA:2671:A:H5'	2.47	0.44
31:DA:2784:C:O2'	31:DA:2785:C:H5'	2.17	0.44
31:DA:2840:C:O2'	31:DA:2841:C:H5'	2.18	0.44
33:DD:242:ARG:CB	33:DD:244:ARG:H	2.31	0.44
34:DE:120:TRP:CG	34:DE:155:LYS:HB3	2.53	0.44
39:DN:3:THR:HG22	39:DN:4:TYR:N	2.30	0.44
42:DQ:32:TYR:HA	42:DQ:132:VAL:O	2.18	0.44
43:DR:36:THR:HB	43:DR:37:THR:H	1.70	0.44
43:DR:96:ARG:O	43:DR:114:VAL:HA	2.18	0.44
43:DR:100:LEU:CD2	43:DR:113:LEU:HD13	2.44	0.44
44:DS:90:GLY:N	44:DS:91:PRO:HD2	2.30	0.44
45:DT:54:ARG:HA	45:DT:59:THR:CB	2.48	0.44
45:DT:109:GLU:HB3	45:DT:113:LYS:CE	2.45	0.44
46:DU:10:ARG:O	46:DU:11:ARG:C	2.56	0.44
46:DU:91:ASP:OD1	46:DU:96:ALA:HB2	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:73:SER:O	47:DV:74:LYS:CB	2.65	0.44
47:DV:80:GLN:OE1	47:DV:80:GLN:C	2.56	0.44
48:DW:92:ARG:NH1	48:DW:92:ARG:CG	2.74	0.44
49:DX:8:ILE:CD1	49:DX:43:VAL:HA	2.47	0.44
49:DX:80:ILE:HG23	49:DX:81:VAL:N	2.32	0.44
1:AA:340:U:H2'	1:AA:341:C:O4'	2.18	0.44
1:AA:582:U:C2	1:AA:760:G:C6	3.06	0.44
1:AA:623:C:C2'	1:AA:624:C:H5'	2.48	0.44
1:AA:728:A:H2'	1:AA:729:A:C8	2.53	0.44
1:AA:925:G:C4	1:AA:1392:G:N2	2.86	0.44
1:AA:995:C:O4'	14:AN:8:GLU:CD	2.56	0.44
1:AA:1088:G:C4	1:AA:1089:G:N7	2.86	0.44
1:AA:1233:G:H2'	1:AA:1234:C:C6	2.52	0.44
1:AA:1432:G:OP1	45:BT:108:ARG:N	2.46	0.44
2:AB:42:ILE:HD13	2:AB:42:ILE:C	2.38	0.44
2:AB:64:ARG:O	2:AB:65:GLY:C	2.56	0.44
3:AC:7:PRO:O	3:AC:11:ARG:HG2	2.18	0.44
4:AD:158:ILE:O	4:AD:158:ILE:HD12	2.18	0.44
8:AH:83:ILE:O	8:AH:83:ILE:HG23	2.18	0.44
9:AI:63:ILE:HD12	9:AI:63:ILE:N	2.32	0.44
20:AT:23:ARG:HA	20:AT:26:ASN:ND2	2.33	0.44
23:B1:19:GLN:O	23:B1:42:GLN:HB3	2.17	0.44
23:B1:80:LEU:HD23	23:B1:80:LEU:HA	1.80	0.44
30:B8:2:PRO:HA	31:BA:591:C:H1'	2.00	0.44
30:B8:53:PRO:O	30:B8:54:GLU:C	2.56	0.44
31:BA:64:A:OP1	49:BX:70:LEU:HD12	2.18	0.44
31:BA:260:G:N2	31:BA:261:G:H1'	2.33	0.44
31:BA:636:G:H4'	31:BA:638:G:O3'	2.18	0.44
31:BA:861:A:H2'	31:BA:862:G:O4'	2.18	0.44
31:BA:963:U:H2'	31:BA:964:C:C6	2.52	0.44
31:BA:1266:G:O5'	48:BW:15:ARG:NH2	2.51	0.44
31:BA:1322:A:C5	31:BA:1323:U:C5	3.06	0.44
31:BA:1495:A:H2'	31:BA:1496:A:C2	2.50	0.44
31:BA:1811:G:C6	31:BA:1812:A:N7	2.86	0.44
31:BA:2053:G:N2	31:BA:2054:A:C4	2.86	0.44
31:BA:2223:G:H2'	31:BA:2224:G:C5'	2.47	0.44
31:BA:2317:C:C3'	31:BA:2318:G:C5'	2.96	0.44
31:BA:2358:G:C5	31:BA:2359:C:C5	3.06	0.44
31:BA:2586:C:H6	31:BA:2586:C:O5'	2.00	0.44
31:BA:2659:G:N3	31:BA:2663:G:N1	2.58	0.44
31:BA:2684:U:O2'	40:BO:68:GLU:HG3	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2789:C:OP1	31:BA:2789:C:H4'	2.18	0.44
33:BD:48:ARG:CG	33:BD:48:ARG:HH11	2.30	0.44
33:BD:106:ILE:HG12	33:BD:107:ALA:N	2.31	0.44
35:BF:31:HIS:NE2	35:BF:35:GLU:OE1	2.47	0.44
35:BF:119:ARG:HH11	35:BF:119:ARG:HG2	1.83	0.44
35:BF:160:ASN:HD22	35:BF:162:LEU:N	2.16	0.44
38:BI:28:ASN:C	38:BI:32:PRO:HG2	2.38	0.44
41:BP:25:SER:O	41:BP:30:THR:HG23	2.18	0.44
42:BQ:140:ALA:C	51:BZ:53:ILE:HB	2.38	0.44
43:BR:74:LYS:HD2	43:BR:74:LYS:HA	1.76	0.44
44:BS:62:LYS:O	44:BS:66:ALA:CB	2.65	0.44
46:BU:39:LEU:HD23	46:BU:39:LEU:HA	1.66	0.44
48:BW:24:ILE:HD12	48:BW:24:ILE:C	2.38	0.44
48:BW:24:ILE:CD1	48:BW:71:VAL:HG11	2.48	0.44
1:CA:119:A:C5	1:CA:288:A:C2	3.06	0.44
1:CA:134:A:N6	16:CP:25:ARG:NH1	2.53	0.44
1:CA:233:C:C2'	1:CA:234:C:H5'	2.48	0.44
1:CA:408:A:C5'	4:CD:116:GLN:HB2	2.48	0.44
1:CA:515:G:C2	1:CA:516:U:C2	3.05	0.44
1:CA:692:U:O2	1:CA:695:A:H8	2.01	0.44
1:CA:731:G:H5'	1:CA:766:A:H4'	2.00	0.44
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.18	0.44
1:CA:1106:G:C6	1:CA:1107:C:C4	3.06	0.44
1:CA:1206:G:O4'	3:CC:194:GLY:HA2	2.17	0.44
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.18	0.44
1:CA:1480:G:C6	1:CA:1481:U:N3	2.86	0.44
1:CA:1523:G:OP1	11:CK:123:LYS:HD3	2.18	0.44
2:CB:25:ASN:HA	2:CB:26:PRO:HD2	1.76	0.44
4:CD:13:ARG:O	4:CD:15:GLU:N	2.50	0.44
4:CD:108:LEU:HD11	4:CD:174:LEU:HD22	1.99	0.44
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.68	0.44
6:CF:48:LEU:HB2	6:CF:56:PRO:O	2.18	0.44
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.53	0.44
8:CH:45:ILE:HB	8:CH:47:GLY:H	1.82	0.44
9:CI:96:LEU:CD2	9:CI:102:LEU:HD12	2.48	0.44
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.56	0.44
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.18	0.44
12:CL:123:LYS:H	12:CL:123:LYS:HG2	1.57	0.44
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.66	0.44
20:CT:35:THR:O	20:CT:38:LYS:HB2	2.17	0.44
25:D3:10:LYS:HG3	25:D3:11:SER:N	2.33	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:36:CYS:HG	27:D5:49:CYS:H	1.65	0.44
27:D5:46:CYS:CB	27:D5:47:PRO:HD2	2.45	0.44
30:D8:22:VAL:O	30:D8:22:VAL:HG12	2.17	0.44
30:D8:35:GLN:NE2	30:D8:36:LYS:HG3	2.33	0.44
31:DA:292:C:C2	31:DA:349:G:C2	3.06	0.44
31:DA:375:C:H2'	31:DA:376:C:C6	2.53	0.44
31:DA:526:A:O2'	31:DA:2043:C:C2'	2.66	0.44
31:DA:575:A:H4'	31:DA:2500:U:H4'	2.00	0.44
31:DA:683:C:C2	31:DA:684:G:C8	3.05	0.44
31:DA:721:C:O2	31:DA:721:C:C2'	2.54	0.44
31:DA:721:C:H5'	31:DA:722:A:OP2	2.18	0.44
31:DA:745:G:C3'	31:DA:746:A:H5'	2.48	0.44
31:DA:786:C:O2'	31:DA:787:U:H5'	2.17	0.44
31:DA:812:C:H1'	31:DA:1250:G:N2	2.32	0.44
31:DA:856:C:C3'	31:DA:857:C:H6	2.31	0.44
31:DA:1044:G:O2'	31:DA:1047:G:H1'	2.18	0.44
31:DA:1262:A:C5	31:DA:1263:U:C5	3.06	0.44
31:DA:1338:G:N2	31:DA:1339:G:C4	2.85	0.44
31:DA:2207:G:N3	31:DA:2207:G:H2'	2.32	0.44
31:DA:2275:C:C6	31:DA:2275:C:C5'	3.00	0.44
31:DA:2475:C:H2'	31:DA:2477:C:OP2	2.17	0.44
31:DA:2507:C:C2	31:DA:2508:G:C8	3.06	0.44
31:DA:2523:G:N2	31:DA:2764:A:N3	2.64	0.44
31:DA:2530:A:C3'	31:DA:2531:A:H5''	2.48	0.44
31:DA:2705:A:H2'	31:DA:2706:G:O4'	2.18	0.44
31:DA:2816:C:C2	31:DA:2831:G:C2	3.06	0.44
31:DA:2895:U:H6	31:DA:2895:U:H3'	1.83	0.44
32:DB:1:U:H5'	32:DB:2:C:OP2	2.17	0.44
32:DB:17:C:N4	32:DB:109:C:O2	2.47	0.44
33:DD:25:THR:O	33:DD:27:THR:CB	2.65	0.44
33:DD:35:LYS:HA	33:DD:36:PRO:HA	1.55	0.44
33:DD:43:ARG:NH1	33:DD:44:ASN:CG	2.67	0.44
33:DD:91:ARG:O	33:DD:107:ALA:CB	2.66	0.44
33:DD:105:ILE:HD12	33:DD:106:ILE:H	1.82	0.44
35:DF:57:VAL:HG11	35:DF:59:TYR:CD1	2.53	0.44
35:DF:83:PHE:O	35:DF:84:VAL:C	2.53	0.44
37:DH:86:GLU:HA	37:DH:132:ARG:HA	2.00	0.44
38:DI:121:LYS:O	38:DI:122:GLU:HB2	2.18	0.44
43:DR:59:ASP:OD1	43:DR:61:HIS:HB3	2.17	0.44
44:DS:12:PHE:CD1	44:DS:12:PHE:O	2.70	0.44
44:DS:78:LEU:O	44:DS:79:ALA:C	2.56	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:61:PHE:CE2	45:DT:76:PHE:HB2	2.53	0.44
46:DU:31:SER:C	46:DU:33:ARG:N	2.71	0.44
46:DU:66:ASN:HD21	46:DU:70:ARG:HH21	1.66	0.44
47:DV:11:GLN:C	47:DV:12:TYR:CD2	2.91	0.44
47:DV:16:PRO:HA	47:DV:98:GLU:OE2	2.18	0.44
48:DW:52:GLU:O	48:DW:55:ALA:HB3	2.17	0.44
50:DY:26:LYS:HE2	50:DY:27:VAL:HG23	1.99	0.44
50:DY:86:ARG:HD2	50:DY:88:LYS:HD2	1.99	0.44
1:AA:34:C:H2'	1:AA:35:G:H8	1.82	0.43
1:AA:51:A:N3	1:AA:116:A:H1'	2.33	0.43
1:AA:244:U:C6	1:AA:894:G:C2	3.06	0.43
1:AA:391:G:C6	1:AA:392:G:C5	3.06	0.43
1:AA:427:U:P	4:AD:13:ARG:NH2	2.91	0.43
1:AA:509:A:H2'	1:AA:510:A:N7	2.33	0.43
1:AA:513:C:H2'	1:AA:513:C:O2	2.19	0.43
1:AA:722:A:N6	1:AA:724:G:C2	2.86	0.43
1:AA:819:A:C4'	1:AA:820:U:OP2	2.61	0.43
1:AA:861:G:O2'	1:AA:862:C:H5'	2.18	0.43
1:AA:900:A:H2'	1:AA:901:A:O4'	2.17	0.43
1:AA:939:G:H1'	1:AA:1375:A:H2	1.81	0.43
1:AA:1014:A:H2	1:AA:1219:U:O2	2.00	0.43
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.71	0.43
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.18	0.43
1:AA:1127:G:H1'	1:AA:1148:U:N3	2.33	0.43
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.51	0.43
1:AA:1250:A:H2'	1:AA:1251:A:O4'	2.18	0.43
1:AA:1372:U:OP1	9:AI:72:GLY:N	2.51	0.43
1:AA:1406:U:H2'	1:AA:1407:C:H6	1.82	0.43
2:AB:158:LEU:H	2:AB:158:LEU:CD1	2.31	0.43
4:AD:52:SER:O	4:AD:53:ASP:C	2.56	0.43
4:AD:63:LYS:HB2	4:AD:63:LYS:HE3	1.79	0.43
5:AE:101:ILE:HG12	5:AE:101:ILE:O	2.18	0.43
7:AG:50:ILE:HD12	7:AG:61:VAL:HG11	2.00	0.43
7:AG:105:VAL:O	7:AG:109:ASN:ND2	2.50	0.43
8:AH:52:ASP:OD2	8:AH:56:LYS:N	2.51	0.43
8:AH:111:ILE:HD11	8:AH:137:VAL:HG21	2.00	0.43
10:AJ:57:LYS:HD3	10:AJ:60:ARG:NH1	2.32	0.43
15:AO:17:ARG:HH11	15:AO:17:ARG:CG	2.25	0.43
17:AQ:52:LYS:N	17:AQ:55:ASP:OD2	2.50	0.43
20:AT:84:LEU:HD22	20:AT:88:VAL:HG23	2.00	0.43
30:B8:30:ARG:CB	31:BA:2393:A:P	3.06	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:35:GLN:OE1	31:BA:2421:G:OP2	2.36	0.43
31:BA:272(J):C:C2'	31:BA:274:G:OP1	2.66	0.43
31:BA:501:A:C6	31:BA:502:A:C5	3.06	0.43
31:BA:602:G:N2	31:BA:656:G:C5	2.86	0.43
31:BA:832:G:H21	41:BP:53:GLY:HA3	1.81	0.43
31:BA:1044:G:O2'	31:BA:1047:G:H1'	2.17	0.43
31:BA:1112:G:N2	31:BA:1113:U:O2	2.50	0.43
31:BA:1221(A):C:H2'	31:BA:1222:C:C6	2.53	0.43
31:BA:1374:G:C6	31:BA:1375:C:C4	3.06	0.43
31:BA:1386:C:OP2	31:BA:1396:U:C5	2.72	0.43
31:BA:1412:A:H3'	31:BA:1413:G:H8	1.81	0.43
31:BA:1469:A:C4	31:BA:1470:G:C8	3.06	0.43
31:BA:1477:A:C6	31:BA:1515:G:C6	3.06	0.43
31:BA:1510:G:H2'	31:BA:1511:C:H6	1.83	0.43
31:BA:1593:G:C6	31:BA:1594:G:C5	3.06	0.43
31:BA:1879:C:H2'	31:BA:1880:C:O4'	2.17	0.43
31:BA:2019:A:H8	31:BA:2019:A:O5'	2.01	0.43
31:BA:2081:C:H2'	31:BA:2082:A:H8	1.82	0.43
31:BA:2313:C:H6	31:BA:2313:C:H3'	1.82	0.43
31:BA:2364:C:H2'	31:BA:2365:G:O4'	2.18	0.43
31:BA:2627:G:O2'	31:BA:2781:A:N1	2.35	0.43
31:BA:2751:G:H3'	31:BA:2752:C:C6	2.41	0.43
32:BB:69:G:C4	32:BB:70:C:C6	3.06	0.43
33:BD:35:LYS:HG2	33:BD:64:ILE:CG2	2.47	0.43
34:BE:3:GLY:HA2	34:BE:198:VAL:O	2.18	0.43
35:BF:129:PHE:CE1	35:BF:142:TRP:CZ2	3.05	0.43
36:BG:163:ALA:O	36:BG:164:GLU:HG3	2.18	0.43
40:BO:65:THR:HA	40:BO:82:ASN:CB	2.42	0.43
40:BO:98:VAL:CG1	40:BO:117:LEU:HB3	2.47	0.43
42:BQ:43:THR:O	42:BQ:44:ALA:C	2.55	0.43
43:BR:18:LEU:O	43:BR:19:ALA:C	2.55	0.43
43:BR:56:LYS:NZ	43:BR:90:ARG:O	2.38	0.43
47:BV:13:ARG:CG	47:BV:13:ARG:NH1	2.67	0.43
47:BV:72:VAL:HG12	47:BV:88:ARG:HH22	1.82	0.43
48:BW:103:ILE:H	48:BW:103:ILE:HD12	1.82	0.43
49:BX:77:LYS:CD	49:BX:78:LYS:HG3	2.48	0.43
50:BY:13:VAL:CG1	50:BY:14:LEU:N	2.80	0.43
50:BY:76:CYS:O	50:BY:77:PRO:C	2.56	0.43
1:CA:41:G:C5	1:CA:402:G:N1	2.86	0.43
1:CA:60:A:N6	1:CA:110:C:N3	2.66	0.43
1:CA:69:G:C2	1:CA:70:G:C5	3.06	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:166:G:C2'	1:CA:167:G:H5'	2.48	0.43
1:CA:283:C:H2'	1:CA:284:G:O4'	2.18	0.43
1:CA:336:C:H2'	1:CA:337:C:C6	2.53	0.43
1:CA:363:A:C5	12:CL:31:PRO:HD2	2.53	0.43
1:CA:441:A:H5'	1:CA:442:C:OP2	2.18	0.43
1:CA:498:U:C2	1:CA:499:A:C8	3.06	0.43
1:CA:542:G:C2	1:CA:543:C:C5	3.06	0.43
1:CA:542:G:N3	1:CA:543:C:C6	2.85	0.43
1:CA:552:U:H4'	12:CL:86:ARG:HG3	2.00	0.43
1:CA:577:G:H1'	1:CA:816:A:N3	2.33	0.43
1:CA:914:A:C6	1:CA:915:A:C5	3.06	0.43
1:CA:944:G:N2	1:CA:1338:G:C8	2.86	0.43
1:CA:1067:A:H1'	1:CA:1068:G:O4'	2.18	0.43
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.18	0.43
1:CA:1118:C:H1'	1:CA:1179:A:C5	2.53	0.43
1:CA:1509:C:H2'	1:CA:1510:U:O4'	2.18	0.43
3:CC:35:GLU:HG2	3:CC:39:ILE:HD11	2.00	0.43
3:CC:178:LEU:C	3:CC:180:ALA:H	2.21	0.43
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.99	0.43
8:CH:44:PHE:HA	8:CH:79:VAL:CG1	2.46	0.43
9:CI:18:PHE:CD1	9:CI:62:TYR:HD2	2.36	0.43
11:CK:29:ILE:HG13	11:CK:44:SER:HA	2.00	0.43
11:CK:58:PRO:O	11:CK:61:ALA:HB3	2.18	0.43
16:CP:22:THR:CG2	16:CP:32:TYR:HA	2.44	0.43
23:D1:26:ARG:CB	23:D1:34:THR:HA	2.38	0.43
23:D1:60:PHE:CE2	23:D1:91:LYS:HE2	2.53	0.43
24:D2:30:ARG:HA	24:D2:33:MET:SD	2.58	0.43
25:D3:26:LEU:HD11	25:D3:47:VAL:N	2.33	0.43
27:D5:46:CYS:SG	27:D5:47:PRO:N	2.91	0.43
29:D7:1:MET:HE2	29:D7:1:MET:HB2	1.78	0.43
30:D8:26:LYS:HB3	30:D8:44:LYS:HG3	1.99	0.43
31:DA:154:G:C2	31:DA:154(A):C:N3	2.86	0.43
31:DA:190:A:C8	31:DA:207:A:C6	3.06	0.43
31:DA:551:G:C4	31:DA:552:G:C8	3.05	0.43
31:DA:648:G:O4'	31:DA:2351:G:H5''	2.18	0.43
31:DA:691:C:H4'	33:DD:43:ARG:HG2	2.00	0.43
31:DA:776:G:C5	31:DA:793:A:C4	3.06	0.43
31:DA:811:U:O2'	31:DA:1250:G:H2'	2.18	0.43
31:DA:824:A:C2'	31:DA:825:C:H5'	2.48	0.43
31:DA:1252:G:O2'	31:DA:1253:A:C8	2.69	0.43
31:DA:1344:G:OP1	31:DA:1345:C:H5	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1649:G:C6	31:DA:2009:G:C6	3.06	0.43
31:DA:1659:U:H2'	31:DA:1660:C:C5'	2.48	0.43
31:DA:1718:G:H1	31:DA:1744:C:H42	1.66	0.43
31:DA:1779:U:C5	31:DA:1783:A:C8	3.05	0.43
31:DA:1793:C:H2'	31:DA:1794:U:C6	2.53	0.43
31:DA:1884:A:C4	31:DA:1885:A:C8	3.06	0.43
31:DA:1914:C:O4'	31:DA:1914:C:O2	2.36	0.43
31:DA:2023:G:H4'	31:DA:2617:C:O3'	2.18	0.43
31:DA:2048:G:C5	31:DA:2049:G:C8	3.06	0.43
31:DA:2094:G:H1'	31:DA:2198:A:H61	1.81	0.43
31:DA:2243:U:O2'	31:DA:2244:U:H5'	2.18	0.43
31:DA:2427:C:H5''	31:DA:2428:G:OP1	2.18	0.43
31:DA:2503:A:H4'	31:DA:2504:U:OP1	2.17	0.43
31:DA:2602:A:H4'	31:DA:2603:G:O5'	2.17	0.43
31:DA:2791:C:H4'	31:DA:2792:G:O5'	2.17	0.43
32:DB:23:G:C2	32:DB:24:G:O6	2.71	0.43
33:DD:69:ARG:HH12	33:DD:117:VAL:HG23	1.79	0.43
33:DD:108:PRO:HD2	33:DD:111:LEU:CD2	2.48	0.43
34:DE:104:VAL:HG11	34:DE:188:VAL:CG2	2.41	0.43
34:DE:203:LYS:HE3	34:DE:204:ALA:HB2	2.00	0.43
35:DF:192:LEU:HD13	35:DF:194:MET:HE3	2.00	0.43
37:DH:105:LEU:N	37:DH:105:LEU:HD13	2.33	0.43
38:DI:10:GLU:C	38:DI:12:LEU:H	2.20	0.43
38:DI:101:LEU:HB3	38:DI:109:ILE:HG12	2.00	0.43
39:DN:104:LYS:HB2	39:DN:104:LYS:HE3	1.87	0.43
40:DO:107:ARG:HH12	45:DT:35:LYS:HE2	1.82	0.43
41:DP:98:GLU:HA	41:DP:101:VAL:CG1	2.47	0.43
45:DT:29:ARG:HD2	45:DT:29:ARG:HA	1.78	0.43
47:DV:66:ARG:HD3	47:DV:94:LEU:HA	1.98	0.43
48:DW:50:VAL:HG22	48:DW:105:VAL:HG23	1.99	0.43
48:DW:51:LEU:HD23	48:DW:105:VAL:HG11	2.00	0.43
49:DX:11:PRO:HB2	49:DX:13:LEU:HD21	1.99	0.43
50:DY:40:GLU:OE2	50:DY:40:GLU:HA	2.18	0.43
50:DY:88:LYS:NZ	50:DY:95:LYS:HE3	2.32	0.43
1:AA:510:A:N3	1:AA:543:C:H1'	2.33	0.43
1:AA:607:A:H2'	1:AA:608:A:O4'	2.17	0.43
1:AA:683:G:C6	1:AA:684:A:C6	3.06	0.43
1:AA:760:G:C2'	1:AA:761:G:H5'	2.49	0.43
1:AA:768:A:OP1	1:AA:804:U:H4'	2.18	0.43
1:AA:821:G:O2'	1:AA:822:C:H5'	2.18	0.43
1:AA:939:G:H1'	1:AA:1375:A:N3	2.34	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:975:A:C4'	1:AA:976:G:H5''	2.35	0.43
1:AA:1003:G:N2	1:AA:1039:C:C2	2.86	0.43
1:AA:1158:C:N4	1:AA:1181:G:H22	2.15	0.43
1:AA:1280:A:H5'	10:AJ:40:LEU:HD12	1.99	0.43
1:AA:1493:A:C4	31:BA:1913:A:C2	3.06	0.43
4:AD:132:ARG:H	4:AD:132:ARG:HG3	1.61	0.43
6:AF:25:ILE:O	6:AF:29:ALA:N	2.51	0.43
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.32	0.43
7:AG:6:ARG:O	7:AG:7:ALA:O	2.35	0.43
8:AH:126:LYS:C	8:AH:128:GLY:N	2.72	0.43
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.34	0.43
12:AL:86:ARG:HB2	12:AL:101:VAL:HG22	1.99	0.43
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.65	0.43
13:AM:15:VAL:O	13:AM:19:LEU:HD23	2.18	0.43
15:AO:74:ASP:HA	15:AO:75:PRO:HD2	1.91	0.43
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.19	0.43
24:B2:18:PRO:O	24:B2:22:GLU:HB2	2.18	0.43
31:BA:17:G:H2'	31:BA:18:C:C6	2.53	0.43
31:BA:26:G:H1'	31:BA:515:A:H61	1.83	0.43
31:BA:612:C:H2'	31:BA:613:G:O4'	2.17	0.43
31:BA:620:G:H4'	31:BA:621:A:OP1	2.18	0.43
31:BA:662:G:OP1	41:BP:18:ARG:NH1	2.49	0.43
31:BA:672:C:C2	31:BA:809:G:N2	2.86	0.43
31:BA:742:G:H2'	31:BA:743:G:H8	1.82	0.43
31:BA:827:U:H2'	31:BA:2068:U:C2	2.53	0.43
31:BA:892:G:N3	31:BA:892:G:C3'	2.80	0.43
31:BA:957:A:C6	31:BA:959:A:C4	3.06	0.43
31:BA:1005:C:O2'	39:BN:28:THR:CG2	2.63	0.43
31:BA:1149:G:H2'	31:BA:1150:C:C6	2.53	0.43
31:BA:1204:A:H61	31:BA:1240:U:H2'	1.83	0.43
31:BA:1525:G:H2'	31:BA:1526:G:O4'	2.17	0.43
31:BA:1718:G:H1	31:BA:1744:C:H42	1.64	0.43
31:BA:2399:G:H2'	31:BA:2400:G:C8	2.53	0.43
31:BA:2642:G:C2	31:BA:2773:C:C2	3.06	0.43
32:BB:93:G:N2	32:BB:94:C:C2	2.86	0.43
32:BB:110:G:C6	32:BB:111:G:N7	2.86	0.43
33:BD:53:PHE:O	33:BD:218:ARG:N	2.47	0.43
34:BE:38:THR:CB	34:BE:41:LYS:HE3	2.48	0.43
37:BH:41:MET:HG3	37:BH:55:PRO:HD3	2.00	0.43
38:BI:84:GLY:O	38:BI:85:GLU:CG	2.66	0.43
39:BN:75:TYR:CE2	39:BN:83:LYS:NZ	2.85	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:117:PHE:CD2	39:BN:117:PHE:C	2.91	0.43
40:BO:43:VAL:HG11	40:BO:53:LYS:O	2.17	0.43
40:BO:104:ARG:CZ	40:BO:104:ARG:CB	2.95	0.43
41:BP:81:GLN:HB3	41:BP:106:LEU:HD12	2.01	0.43
43:BR:41:ALA:O	43:BR:42:LYS:C	2.57	0.43
43:BR:55:ALA:HB2	43:BR:79:LEU:HD11	1.99	0.43
43:BR:77:ARG:O	43:BR:78:LYS:C	2.56	0.43
45:BT:35:LYS:HG3	45:BT:36:GLU:N	2.34	0.43
45:BT:78:LEU:O	45:BT:79:HIS:CG	2.71	0.43
46:BU:92:ARG:HH22	47:BV:10:LYS:HB3	1.83	0.43
49:BX:53:LYS:HE3	49:BX:55:ASN:HD21	1.83	0.43
49:BX:60:ARG:HE	49:BX:74:PRO:HG3	1.80	0.43
1:CA:244:U:O4	1:CA:906:G:H1'	2.18	0.43
1:CA:385:C:C2'	1:CA:386:C:H5'	2.48	0.43
1:CA:408:A:N6	1:CA:409:G:C6	2.86	0.43
1:CA:451:A:H2'	1:CA:481:G:O6	2.18	0.43
1:CA:520:A:C2	1:CA:536:C:O2	2.68	0.43
1:CA:579:G:C5	1:CA:580:U:C4	3.06	0.43
1:CA:921:U:O2'	1:CA:922:G:P	2.75	0.43
2:CB:63:MET:CB	2:CB:225:ALA:HB1	2.48	0.43
3:CC:110:ASN:HB3	3:CC:144:SER:OG	2.19	0.43
4:CD:2:GLY:O	4:CD:3:ARG:C	2.56	0.43
4:CD:122:ARG:O	4:CD:134:ASP:HB2	2.18	0.43
4:CD:152:SER:O	4:CD:158:ILE:HG21	2.18	0.43
4:CD:173:TRP:HB2	4:CD:187:ARG:HG2	2.01	0.43
6:CF:25:ILE:O	6:CF:29:ALA:N	2.50	0.43
9:CI:112:LYS:HA	9:CI:119:ALA:CA	2.47	0.43
10:CJ:49:VAL:O	10:CJ:60:ARG:HB2	2.19	0.43
10:CJ:51:ARG:HG2	10:CJ:61:GLU:HB2	1.99	0.43
11:CK:21:ILE:HD13	11:CK:82:VAL:HG13	2.00	0.43
11:CK:52:GLY:H	11:CK:55:LYS:HE2	1.80	0.43
17:CQ:11:VAL:HG23	17:CQ:20:THR:HG22	1.99	0.43
17:CQ:18:THR:HG23	17:CQ:44:ALA:O	2.18	0.43
17:CQ:63:ARG:HG2	17:CQ:64:PRO:N	2.32	0.43
18:CR:62:GLU:O	18:CR:64:ARG:N	2.51	0.43
20:CT:73:HIS:O	20:CT:74:LYS:O	2.36	0.43
27:D5:55:ARG:HG3	27:D5:56:LYS:H	1.82	0.43
30:D8:16:ILE:HD12	30:D8:57:ARG:HD2	2.00	0.43
31:DA:57:C:C2'	31:DA:58:G:O5'	2.66	0.43
31:DA:68:G:C6	31:DA:69:C:C4	3.06	0.43
31:DA:196:A:H2'	31:DA:196:A:N3	2.31	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:272:G:O4'	31:DA:272(B):G:O5'	2.36	0.43
31:DA:741:G:O2'	31:DA:742:G:H5'	2.19	0.43
31:DA:980:A:C4	31:DA:1136:G:O4'	2.71	0.43
31:DA:996:A:C6	31:DA:1160:G:C6	3.06	0.43
31:DA:1417:C:C2'	31:DA:1418:G:H5'	2.48	0.43
31:DA:1477:A:C6	31:DA:1515:G:C6	3.05	0.43
31:DA:1525:G:H2'	31:DA:1526:G:O4'	2.17	0.43
31:DA:1699:G:H4'	31:DA:1700:A:OP2	2.17	0.43
31:DA:1774:C:H6	31:DA:1774:C:O5'	2.01	0.43
31:DA:1798:U:O2'	31:DA:1802:A:O2'	2.34	0.43
31:DA:1884:A:C2	31:DA:1885:A:C4	3.05	0.43
31:DA:1932:A:C2'	31:DA:1933:G:H5'	2.48	0.43
31:DA:2023:G:C2	31:DA:2024:G:C8	3.06	0.43
31:DA:2287:A:C4	31:DA:2289:G:C8	3.05	0.43
31:DA:2679:A:H4'	34:DE:165:VAL:HG11	1.99	0.43
31:DA:2747:G:C6	31:DA:2754:U:C5	3.07	0.43
31:DA:2807:G:N2	31:DA:2892:A:N6	2.62	0.43
31:DA:2875:C:C4'	45:DT:5:ALA:HB2	2.41	0.43
32:DB:17:C:O2	32:DB:18:G:O4'	2.35	0.43
32:DB:39:A:C2	32:DB:44:G:N3	2.86	0.43
33:DD:65:ILE:CD1	33:DD:67:PHE:CE1	2.96	0.43
36:DG:11:TYR:HD1	36:DG:176:LEU:HD21	1.83	0.43
36:DG:173:LEU:HD13	36:DG:178:PHE:CE2	2.54	0.43
38:DI:81:VAL:HG11	38:DI:123:LEU:HD21	2.00	0.43
39:DN:22:THR:HA	39:DN:61:ARG:O	2.18	0.43
41:DP:7:ARG:HB3	41:DP:8:PRO:CD	2.42	0.43
41:DP:23:PRO:HB3	41:DP:34:GLY:H	1.82	0.43
41:DP:85:LEU:HB2	41:DP:120:ALA:HB2	2.00	0.43
42:DQ:85:LYS:O	42:DQ:86:GLY:C	2.56	0.43
45:DT:29:ARG:HG2	45:DT:85:LYS:HA	1.98	0.43
47:DV:4:ILE:O	47:DV:39:LEU:CB	2.61	0.43
47:DV:18:LEU:O	47:DV:19:LYS:CB	2.66	0.43
48:DW:24:ILE:HD12	48:DW:24:ILE:C	2.38	0.43
48:DW:48:ALA:O	48:DW:51:LEU:HB3	2.18	0.43
51:DZ:50:GLN:HB3	51:DZ:51:ALA:H	1.66	0.43
51:DZ:119:GLU:OE2	51:DZ:122:ARG:HB2	2.18	0.43
51:DZ:156:LYS:O	51:DZ:158:PRO:CD	2.66	0.43
1:AA:165:C:H2'	1:AA:166:G:C8	2.53	0.43
1:AA:167:G:H2'	1:AA:168:G:C8	2.54	0.43
1:AA:360:A:H2'	1:AA:361:G:O4'	2.18	0.43
1:AA:445:G:N2	1:AA:446:G:C4	2.86	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:581:G:C2	1:AA:582:U:C5	3.07	0.43
1:AA:705:U:C5	1:AA:706:A:C5	3.06	0.43
1:AA:718:G:C1'	11:AK:116:HIS:HA	2.48	0.43
1:AA:1106:G:H5''	3:AC:172:ARG:HD2	2.00	0.43
1:AA:1355:G:O2'	1:AA:1356:G:H5'	2.18	0.43
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.17	0.43
2:AB:67:THR:HG22	2:AB:90:MET:HE3	2.01	0.43
4:AD:31:CYS:HB3	4:AD:33:MET:HB3	2.00	0.43
4:AD:78:LEU:O	4:AD:79:PHE:C	2.56	0.43
4:AD:101:LEU:HG	4:AD:121:VAL:CG1	2.49	0.43
4:AD:158:ILE:HG23	4:AD:162:LEU:HD12	1.99	0.43
8:AH:26:VAL:O	8:AH:59:LEU:N	2.51	0.43
9:AI:8:GLY:O	9:AI:14:VAL:HG13	2.18	0.43
13:AM:37:THR:HG22	13:AM:59:TYR:CB	2.48	0.43
15:AO:26:GLU:OE2	15:AO:77:ARG:NH1	2.51	0.43
15:AO:64:ARG:HH12	15:AO:88:ARG:HH12	1.64	0.43
23:B1:60:PHE:CE2	23:B1:91:LYS:HE2	2.53	0.43
24:B2:54:LYS:H	24:B2:56:GLN:HG2	1.82	0.43
25:B3:17:LYS:HA	25:B3:17:LYS:HD3	1.78	0.43
31:BA:447:A:C5	31:BA:454:A:N7	2.86	0.43
31:BA:455:C:H3'	31:BA:456:C:H5''	2.01	0.43
31:BA:494:G:H2'	31:BA:495:G:C8	2.51	0.43
31:BA:590:A:C5	31:BA:591:C:C4	3.07	0.43
31:BA:639:U:C2'	31:BA:640:C:H5'	2.45	0.43
31:BA:852:G:H2'	31:BA:853:G:H8	1.84	0.43
31:BA:940:G:H2'	31:BA:941:A:O4'	2.19	0.43
31:BA:1033:U:C5'	31:BA:1034:G:OP1	2.64	0.43
31:BA:1047:G:C2	31:BA:1111:A:N6	2.85	0.43
31:BA:1151:G:H4'	46:BU:81:HIS:CG	2.53	0.43
31:BA:1301:A:C8	31:BA:1303:G:C8	3.06	0.43
31:BA:1509(B):A:C2'	31:BA:1510:G:C8	2.97	0.43
31:BA:1569:A:H2'	31:BA:1570:A:O4'	2.17	0.43
31:BA:1990:C:H2'	31:BA:1991:U:O4'	2.19	0.43
31:BA:2006:C:O5'	31:BA:2006:C:H6	2.01	0.43
31:BA:2335:A:C8	31:BA:2337:G:N7	2.86	0.43
31:BA:2377:A:H4'	44:BS:107:GLU:CB	2.48	0.43
31:BA:2785:C:H2'	31:BA:2786:U:O4'	2.18	0.43
32:BB:38:C:H2'	32:BB:39:A:O4'	2.17	0.43
32:BB:86:G:H1	32:BB:91:C:H42	1.66	0.43
34:BE:52:LEU:O	34:BE:53:PRO:C	2.56	0.43
34:BE:96:PHE:CD1	34:BE:96:PHE:N	2.86	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:181:LEU:HG	45:BT:11:GLU:OE2	2.18	0.43
35:BF:29:ASN:OD1	35:BF:29:ASN:C	2.56	0.43
35:BF:46:ARG:CB	35:BF:46:ARG:NH1	2.81	0.43
35:BF:117:ARG:HA	35:BF:117:ARG:HD3	1.54	0.43
35:BF:126:VAL:HG21	35:BF:129:PHE:CZ	2.52	0.43
37:BH:89:ILE:HD12	37:BH:129:THR:O	2.18	0.43
38:BI:6:LEU:HD23	38:BI:6:LEU:N	2.33	0.43
38:BI:69:LYS:HG2	38:BI:69:LYS:O	2.18	0.43
40:BO:47:ILE:HG13	40:BO:48:PRO:HD2	1.99	0.43
40:BO:86:ILE:H	40:BO:86:ILE:HD12	1.83	0.43
45:BT:24:PRO:CA	45:BT:49:VAL:HG13	2.48	0.43
45:BT:38:ASN:C	45:BT:38:ASN:ND2	2.72	0.43
45:BT:41:ARG:O	45:BT:42:ILE:C	2.56	0.43
47:BV:27:ALA:HB1	47:BV:64:HIS:CD2	2.53	0.43
48:BW:34:ASN:O	48:BW:35:ILE:C	2.56	0.43
48:BW:50:VAL:HG13	48:BW:105:VAL:HG21	2.00	0.43
49:BX:25:LYS:NZ	49:BX:90:GLU:HB2	2.33	0.43
49:BX:52:VAL:HB	49:BX:80:ILE:HG23	2.00	0.43
49:BX:73:ARG:N	49:BX:74:PRO:CD	2.74	0.43
49:BX:90:GLU:O	49:BX:92:LEU:N	2.51	0.43
50:BY:14:LEU:O	50:BY:72:VAL:HA	2.18	0.43
1:CA:32:A:C3'	1:CA:33:A:H8	2.31	0.43
1:CA:131:C:H2'	1:CA:132:C:C6	2.52	0.43
1:CA:671:G:C5	1:CA:672:U:C5	3.05	0.43
1:CA:758:G:O5'	1:CA:758:G:H8	2.01	0.43
1:CA:774:G:C2	1:CA:806:C:N3	2.86	0.43
1:CA:825:G:C6	1:CA:826:C:C4	3.06	0.43
1:CA:825:G:N2	8:CH:11:THR:HG21	2.33	0.43
1:CA:836:G:O6	1:CA:851:G:C6	2.71	0.43
1:CA:1003:G:N2	1:CA:1039:C:C2	2.86	0.43
1:CA:1315:U:O4	1:CA:1316:G:C2	2.72	0.43
1:CA:1442:G:C5	1:CA:1442(B):A:N1	2.81	0.43
1:CA:1524:C:OP1	11:CK:120:ARG:NH1	2.51	0.43
3:CC:182:ILE:HG12	3:CC:203:PHE:CD1	2.53	0.43
5:CE:10:MET:SD	5:CE:13:ILE:HD13	2.58	0.43
6:CF:6:VAL:HG22	6:CF:90:VAL:HG13	1.99	0.43
10:CJ:40:LEU:HB2	10:CJ:41:PRO:CD	2.42	0.43
11:CK:34:ASP:HB3	11:CK:40:ILE:HD11	2.00	0.43
13:CM:105:THR:O	13:CM:106:ASN:O	2.36	0.43
15:CO:30:ALA:O	15:CO:33:THR:HB	2.18	0.43
15:CO:64:ARG:HH22	15:CO:88:ARG:CZ	2.31	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:28:ARG:O	16:CP:30:GLY:N	2.49	0.43
17:CQ:52:LYS:HD2	17:CQ:52:LYS:N	2.33	0.43
20:CT:92:LEU:C	20:CT:94:ALA:H	2.22	0.43
23:D1:56:GLN:H	23:D1:58:ILE:CD1	2.31	0.43
24:D2:14:ARG:HG2	24:D2:15:LYS:N	2.33	0.43
24:D2:26:ARG:HA	24:D2:26:ARG:HD2	1.68	0.43
24:D2:48:HIS:HE2	31:DA:75:G:C3'	2.29	0.43
30:D8:59:LYS:HD2	41:DP:50:ARG:HB3	1.99	0.43
31:DA:28:A:N6	31:DA:512:G:H1'	2.33	0.43
31:DA:83:G:N1	31:DA:102:G:H2'	2.33	0.43
31:DA:128:C:H2'	31:DA:129:C:H5''	2.00	0.43
31:DA:256:A:O2'	31:DA:257:A:H5'	2.18	0.43
31:DA:389:G:C2	41:DP:71:VAL:HG12	2.53	0.43
31:DA:707:G:C5	31:DA:708:C:C5	3.05	0.43
31:DA:867:C:C4	31:DA:868:U:C4	3.06	0.43
31:DA:904:C:C5'	31:DA:904:C:C6	3.01	0.43
31:DA:910:A:H2'	31:DA:2264:C:O2'	2.18	0.43
31:DA:970:C:H2'	31:DA:971:C:C6	2.53	0.43
31:DA:972:G:P	31:DA:974:G:H5''	2.59	0.43
31:DA:1022:G:N1	31:DA:1140:C:C2	2.87	0.43
31:DA:1151:G:H4'	46:DU:81:HIS:CG	2.53	0.43
31:DA:1247:A:C2	31:DA:1249:U:C6	3.07	0.43
31:DA:1799:G:H4'	31:DA:1800:C:O5'	2.19	0.43
31:DA:1844:C:H2'	31:DA:1845:G:H8	1.83	0.43
31:DA:2243:U:O2	31:DA:2434:A:C2	2.71	0.43
31:DA:2394:C:P	41:DP:63:PRO:CD	3.06	0.43
31:DA:2528:U:H2'	31:DA:2530:A:O5'	2.18	0.43
31:DA:2631:G:N3	31:DA:2810:A:C2	2.86	0.43
31:DA:2649:U:O2'	31:DA:2650:U:H5'	2.18	0.43
32:DB:35:U:H2'	32:DB:36:C:O4'	2.18	0.43
33:DD:51:VAL:HG12	33:DD:54:ARG:HG2	2.01	0.43
33:DD:94:LEU:HD22	33:DD:95:LEU:N	2.33	0.43
36:DG:96:ARG:HD2	36:DG:97:ASP:OD1	2.18	0.43
36:DG:106:LEU:HA	36:DG:110:ALA:CB	2.35	0.43
41:DP:84:ASN:OD1	41:DP:116:GLY:HA3	2.19	0.43
42:DQ:140:ALA:CB	51:DZ:53:ILE:HG13	2.40	0.43
44:DS:39:ILE:HD13	44:DS:39:ILE:HA	1.75	0.43
45:DT:67:SER:N	45:DT:70:VAL:O	2.40	0.43
47:DV:75:PHE:CD1	47:DV:89:GLN:HB3	2.48	0.43
48:DW:47:VAL:O	48:DW:50:VAL:CG1	2.66	0.43
50:DY:7:VAL:HB	50:DY:8:LYS:NZ	2.33	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:79:CYS:O	50:DY:80:GLY:C	2.56	0.43
1:AA:65:U:C4	1:AA:381:C:N3	2.86	0.43
1:AA:126:G:H2'	1:AA:127:G:O5'	2.18	0.43
1:AA:198:G:C8	1:AA:220:G:N2	2.87	0.43
1:AA:367:U:C6	1:AA:394:G:N2	2.87	0.43
1:AA:457:C:C2	1:AA:458:C:C5	3.05	0.43
1:AA:564:C:H5'	12:AL:10:LEU:CD1	2.48	0.43
1:AA:581:G:N2	1:AA:582:U:O4	2.52	0.43
1:AA:594:G:H1	1:AA:645:C:H42	1.66	0.43
1:AA:673:G:C6	1:AA:734:G:C6	3.06	0.43
1:AA:734:G:C6	1:AA:735:C:C4	3.07	0.43
1:AA:786:G:C2	1:AA:787:A:C4	3.06	0.43
1:AA:853:G:C2	1:AA:854:G:C5	3.07	0.43
1:AA:853:G:N1	1:AA:854:G:C5	2.86	0.43
1:AA:877:C:OP1	8:AH:88:LYS:HE3	2.19	0.43
1:AA:895:G:H2'	1:AA:896:C:C6	2.54	0.43
1:AA:914:A:H2'	1:AA:915:A:H8	1.83	0.43
1:AA:1138:G:H3'	1:AA:1138:G:N3	2.33	0.43
1:AA:1157:A:H4'	1:AA:1158:C:C5'	2.49	0.43
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.54	0.43
1:AA:1296:C:C5	1:AA:1297:C:C5	3.06	0.43
1:AA:1442(A):G:C5	45:BT:118:ARG:CD	3.01	0.43
1:AA:1484:C:H1'	31:BA:1960:A:O2'	2.18	0.43
2:AB:84:GLU:O	2:AB:219:VAL:HG21	2.18	0.43
5:AE:147:ASP:HA	5:AE:150:ARG:HB3	1.99	0.43
7:AG:136:LYS:O	7:AG:140:ASP:HB2	2.19	0.43
7:AG:145:ALA:O	7:AG:147:ALA:N	2.48	0.43
8:AH:9:MET:HG2	8:AH:10:LEU:CD2	2.48	0.43
15:AO:69:TYR:HD1	15:AO:72:ARG:NH2	2.16	0.43
17:AQ:87:LYS:O	17:AQ:88:TYR:C	2.56	0.43
20:AT:31:SER:HA	20:AT:34:LYS:CD	2.48	0.43
20:AT:89:ARG:HD2	20:AT:104:LEU:CD1	2.49	0.43
22:B0:17:GLN:NE2	31:BA:2261:C:OP1	2.51	0.43
22:B0:50:ASN:C	22:B0:62:LEU:HB2	2.39	0.43
23:B1:33:LYS:HE3	23:B1:33:LYS:HB2	1.77	0.43
29:B7:15:THR:HG22	29:B7:16:HIS:CE1	2.53	0.43
30:B8:32:LEU:HD12	30:B8:32:LEU:HA	1.80	0.43
31:BA:49:A:N3	31:BA:49:A:H2'	2.32	0.43
31:BA:258:G:C5	31:BA:259:G:N7	2.86	0.43
31:BA:258:G:C6	31:BA:259:G:N7	2.86	0.43
31:BA:298:G:H5''	31:BA:299:A:OP1	2.18	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:942:G:H2'	31:BA:943:U:C5'	2.49	0.43
31:BA:1261:C:C2'	31:BA:1262:A:O5'	2.67	0.43
31:BA:1303:G:N2	31:BA:1304:C:C2	2.86	0.43
31:BA:1475:G:C2	31:BA:1517:G:C4	3.06	0.43
31:BA:1655:A:C8	31:BA:1656:C:C5	3.06	0.43
31:BA:1696:G:C5	31:BA:1697:G:N7	2.86	0.43
31:BA:1791:A:H1'	33:BD:207:GLY:O	2.19	0.43
31:BA:1798:U:C5'	33:BD:259:THR:HB	2.47	0.43
31:BA:2072:G:C2'	31:BA:2073:C:H5'	2.48	0.43
31:BA:2361:A:H2'	31:BA:2362:G:O4'	2.19	0.43
31:BA:2468:G:C5'	42:BQ:120:ILE:HD12	2.39	0.43
31:BA:2580:U:O2	31:BA:2580:U:C2'	2.65	0.43
31:BA:2619:C:O2'	31:BA:2620:C:H5'	2.18	0.43
31:BA:2656:U:N3	31:BA:2665:A:C2	2.81	0.43
31:BA:2712:U:H1'	31:BA:2712(A):A:H8	1.78	0.43
31:BA:2862:G:C3'	31:BA:2863:C:H5''	2.48	0.43
32:BB:44:G:O2'	32:BB:45:A:OP2	2.35	0.43
32:BB:57:A:C4	36:BG:29:TRP:HB2	2.52	0.43
32:BB:58:A:C5'	32:BB:59:A:OP2	2.66	0.43
33:BD:39:LYS:HZ3	33:BD:60:ARG:HH11	1.67	0.43
33:BD:131:LEU:HB2	33:BD:136:ILE:CD1	2.41	0.43
33:BD:137:PRO:HB2	33:BD:140:THR:HG23	1.99	0.43
35:BF:119:ARG:HG2	35:BF:119:ARG:O	2.18	0.43
36:BG:146:TYR:HA	36:BG:149:VAL:HG22	1.99	0.43
38:BI:101:LEU:HB3	38:BI:109:ILE:HG12	2.00	0.43
39:BN:22:THR:HA	39:BN:61:ARG:O	2.19	0.43
41:BP:75:ILE:N	41:BP:75:ILE:CD1	2.80	0.43
41:BP:121:LYS:CG	41:BP:122:PRO:HD2	2.37	0.43
42:BQ:85:LYS:O	42:BQ:86:GLY:C	2.56	0.43
43:BR:18:LEU:HA	43:BR:18:LEU:HD23	1.77	0.43
44:BS:74:ALA:CB	44:BS:103:GLU:HG3	2.20	0.43
44:BS:95:HIS:O	44:BS:97:ARG:O	2.36	0.43
45:BT:45:PHE:CE2	45:BT:63:VAL:CG2	3.02	0.43
45:BT:51:ARG:HB2	45:BT:98:LYS:HG3	2.00	0.43
46:BU:26:GLY:O	46:BU:30:LYS:HG2	2.18	0.43
47:BV:38:LEU:HD23	47:BV:54:GLY:HA3	2.01	0.43
50:BY:8:LYS:CB	50:BY:28:LYS:HZ3	2.30	0.43
51:BZ:69:THR:CG2	51:BZ:90:VAL:HG22	2.48	0.43
1:CA:55:A:C5	1:CA:56:U:C5	3.06	0.43
1:CA:102:G:C6	1:CA:103:C:N4	2.87	0.43
1:CA:282:A:H2'	1:CA:282:A:N3	2.31	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:654:G:C5	1:CA:655:A:C8	3.06	0.43
1:CA:695:A:H2'	1:CA:696:A:C8	2.53	0.43
1:CA:729:A:H2'	1:CA:730:G:H8	1.83	0.43
1:CA:760:G:H2'	1:CA:761:G:C5'	2.47	0.43
1:CA:783:C:H2'	1:CA:784:C:H5'	1.96	0.43
1:CA:938:A:C6	1:CA:939:G:C6	3.06	0.43
1:CA:939:G:H1'	1:CA:1375:A:N3	2.33	0.43
1:CA:975:A:C4'	1:CA:976:G:H5''	2.35	0.43
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.99	0.43
1:CA:1104:G:C4	1:CA:1105:A:C8	3.06	0.43
1:CA:1138:G:H3'	1:CA:1138:G:N3	2.33	0.43
1:CA:1353:G:H2'	1:CA:1354:C:C6	2.54	0.43
1:CA:1418:A:C2	1:CA:1483:A:C2	3.06	0.43
2:CB:20:GLU:CG	2:CB:191:ASP:HB2	2.48	0.43
2:CB:69:LEU:HB3	2:CB:162:ILE:CG2	2.39	0.43
4:CD:100:ARG:NH2	4:CD:118:ARG:HH22	2.16	0.43
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.19	0.43
8:CH:82:HIS:HB3	8:CH:138:TRP:CE2	2.53	0.43
11:CK:74:ALA:C	11:CK:76:GLY:H	2.22	0.43
15:CO:39:LEU:HA	15:CO:39:LEU:HD23	1.62	0.43
16:CP:21:VAL:O	16:CP:33:ILE:HG12	2.18	0.43
23:D1:73:LEU:HD21	23:D1:94:LEU:HG	2.00	0.43
28:D6:28:ARG:HA	28:D6:32:ASN:HB3	2.00	0.43
30:D8:2:PRO:HA	31:DA:591:C:H1'	2.00	0.43
30:D8:12:LYS:HG2	41:DP:68:GLN:HE22	1.82	0.43
31:DA:69:C:O2	31:DA:73:A:O2'	2.32	0.43
31:DA:92:A:O2'	31:DA:93:G:H5'	2.18	0.43
31:DA:123:G:H2'	31:DA:124:G:H5'	1.99	0.43
31:DA:136:G:H2'	31:DA:137:C:O5'	2.18	0.43
31:DA:593:G:H2'	31:DA:594:U:H6	1.81	0.43
31:DA:670:A:H4'	31:DA:671:C:OP1	2.18	0.43
31:DA:721:C:H5'	31:DA:722:A:P	2.59	0.43
31:DA:795:C:C2'	31:DA:796:C:H5'	2.48	0.43
31:DA:860:U:H1'	31:DA:2268:A:H5'	2.00	0.43
31:DA:939:G:C5	31:DA:940:G:N7	2.86	0.43
31:DA:1001:A:H2'	31:DA:1002:G:O4'	2.17	0.43
31:DA:1188:U:C3'	31:DA:1189:A:H5'	2.46	0.43
31:DA:1214:A:H2'	31:DA:1215:G:O4'	2.18	0.43
31:DA:1490:A:N3	31:DA:1490:A:H2'	2.34	0.43
31:DA:1510:G:N2	31:DA:1511:C:C2	2.86	0.43
31:DA:1557:C:P	31:DA:1558:A:HO2'	2.39	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1636:C:H2'	31:DA:1637:A:H8	1.80	0.43
31:DA:1816:G:C8	33:DD:62:TYR:CZ	3.05	0.43
31:DA:2282:G:H5'	31:DA:2389:G:C1'	2.48	0.43
31:DA:2311:A:C4'	36:DG:77:ILE:HD11	2.48	0.43
31:DA:2342:C:OP2	31:DA:2342:C:C6	2.61	0.43
31:DA:2364:C:H2'	31:DA:2365:G:O4'	2.18	0.43
31:DA:2368:C:H2'	31:DA:2369:A:H8	1.84	0.43
31:DA:2547:U:O2	40:DO:23:ARG:NH2	2.51	0.43
31:DA:2841:C:H2'	31:DA:2842:G:C8	2.52	0.43
36:DG:48:GLU:O	36:DG:49:ASP:CB	2.66	0.43
36:DG:114:ILE:HA	36:DG:140:ILE:HD12	1.99	0.43
36:DG:135:LEU:O	36:DG:154:GLY:HA3	2.18	0.43
38:DI:133:HIS:CD2	38:DI:133:HIS:N	2.87	0.43
40:DO:22:ILE:HA	40:DO:22:ILE:HD12	1.40	0.43
41:DP:94:GLU:O	41:DP:96:THR:HG23	2.19	0.43
42:DQ:33:GLY:O	42:DQ:132:VAL:HG23	2.18	0.43
43:DR:18:LEU:O	43:DR:19:ALA:C	2.55	0.43
45:DT:40:THR:O	45:DT:41:ARG:HB2	2.17	0.43
46:DU:93:LYS:HD3	46:DU:93:LYS:N	2.15	0.43
47:DV:73:SER:N	47:DV:88:ARG:HH22	2.16	0.43
48:DW:86:LEU:HB2	48:DW:96:ILE:HG22	1.99	0.43
48:DW:107:LEU:HD12	48:DW:107:LEU:HA	1.61	0.43
49:DX:4:ALA:C	49:DX:6:ASP:N	2.68	0.43
1:AA:276:G:H5'	17:AQ:15:MET:HE1	2.00	0.43
1:AA:329:A:C6	1:AA:332:G:C2	3.06	0.43
1:AA:552:U:H4'	12:AL:86:ARG:HG3	2.00	0.43
1:AA:632:A:H8	1:AA:633:G:C8	2.33	0.43
1:AA:734:G:C5	1:AA:735:C:C4	3.07	0.43
1:AA:1126:U:OP1	1:AA:1126:U:O4'	2.36	0.43
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.48	0.43
1:AA:1159:U:O4'	1:AA:1182:G:N2	2.51	0.43
1:AA:1277:C:O2'	1:AA:1279:A:H1'	2.18	0.43
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.54	0.43
2:AB:25:ASN:HA	2:AB:26:PRO:HD2	1.76	0.43
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.18	0.43
4:AD:173:TRP:CD1	4:AD:173:TRP:O	2.71	0.43
6:AF:15:ASP:C	6:AF:17:SER:N	2.71	0.43
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	2.18	0.43
18:AR:40:LEU:C	18:AR:42:ARG:N	2.72	0.43
28:B6:13:CYS:HB2	28:B6:22:ALA:CB	2.48	0.43
29:B7:16:HIS:CD2	31:BA:686:G:H1	2.35	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:22:VAL:O	30:B8:22:VAL:HG12	2.17	0.43
31:BA:26:G:N1	31:BA:27:G:N2	2.66	0.43
31:BA:272(E):G:C5	31:BA:272(F):C:C4	3.06	0.43
31:BA:451:C:H41	31:BA:454:A:H5'	1.83	0.43
31:BA:452:G:C2	31:BA:458:G:C5	3.07	0.43
31:BA:768:G:C5	31:BA:769:G:N7	2.87	0.43
31:BA:918:A:C5	31:BA:919:G:H1'	2.53	0.43
31:BA:1254:A:C8	31:BA:1256:G:C8	3.07	0.43
31:BA:1388:G:H4'	31:BA:1525:G:O2'	2.19	0.43
31:BA:1496:A:H8	31:BA:1577:C:O2'	1.99	0.43
31:BA:1764:G:N2	31:BA:1765:C:C2	2.87	0.43
31:BA:1827:C:O2'	31:BA:1970:A:H1'	2.18	0.43
31:BA:2048:G:C5	31:BA:2049:G:C8	3.06	0.43
31:BA:2093:G:H4'	38:BI:25:TYR:H	1.83	0.43
31:BA:2275:C:H5''	31:BA:2275:C:H6	1.83	0.43
31:BA:2543:G:C6	31:BA:2544:G:C6	3.07	0.43
31:BA:2590:A:C2	31:BA:2605:U:O2	2.71	0.43
31:BA:2655:G:HO2'	31:BA:2656:U:H5	1.60	0.43
31:BA:2772:C:H2'	31:BA:2773:C:H6	1.82	0.43
32:BB:3:C:H5''	32:BB:4:C:OP2	2.17	0.43
32:BB:17:C:N3	32:BB:18:G:N7	2.67	0.43
33:BD:3:VAL:N	33:BD:20:ASP:HB2	2.31	0.43
33:BD:35:LYS:CA	33:BD:64:ILE:CG2	2.96	0.43
33:BD:245:PRO:O	33:BD:246:PRO:C	2.55	0.43
36:BG:5:VAL:HG21	36:BG:101:ILE:CB	2.43	0.43
36:BG:106:LEU:HA	36:BG:110:ALA:CB	2.38	0.43
37:BH:103:LEU:HD21	37:BH:105:LEU:HD11	2.01	0.43
37:BH:138:LYS:O	37:BH:139:GLN:C	2.56	0.43
38:BI:84:GLY:O	38:BI:85:GLU:HB2	2.19	0.43
38:BI:113:ARG:HB3	38:BI:131:LYS:O	2.18	0.43
39:BN:21:LYS:HA	39:BN:21:LYS:HD3	1.86	0.43
39:BN:23:LEU:HD21	39:BN:62:VAL:HG23	2.00	0.43
44:BS:92:TYR:O	44:BS:93:LYS:C	2.57	0.43
45:BT:10:VAL:CG1	45:BT:11:GLU:N	2.79	0.43
47:BV:17:GLY:O	47:BV:18:LEU:HB3	2.18	0.43
50:BY:9:LYS:O	50:BY:10:GLY:C	2.56	0.43
50:BY:42:VAL:CG2	50:BY:67:LEU:HD13	2.49	0.43
50:BY:81:LYS:HD3	50:BY:97:ARG:CG	2.48	0.43
50:BY:88:LYS:NZ	50:BY:95:LYS:HE3	2.33	0.43
51:BZ:4:ARG:CZ	51:BZ:58:VAL:HG11	2.48	0.43
1:CA:329:A:C6	1:CA:332:G:C2	3.06	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:340:U:H2'	1:CA:341:C:O4'	2.19	0.43
1:CA:445:G:N2	1:CA:446:G:C4	2.86	0.43
1:CA:620:C:O2'	1:CA:621:A:H5'	2.18	0.43
1:CA:661:G:N2	1:CA:662:G:C4	2.86	0.43
1:CA:670:G:N2	1:CA:671:G:H1'	2.33	0.43
1:CA:860:A:N6	1:CA:861:G:C2	2.86	0.43
1:CA:872:A:C4	1:CA:874:G:C8	3.06	0.43
1:CA:1057:G:C6	1:CA:1058:G:C4	3.07	0.43
1:CA:1057:G:C5	1:CA:1204:A:C2	3.07	0.43
1:CA:1240:U:P	7:CG:116:ALA:HB2	2.58	0.43
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.53	0.43
4:CD:135:LEU:C	4:CD:137:SER:N	2.71	0.43
6:CF:82:ARG:O	6:CF:85:VAL:HB	2.18	0.43
7:CG:26:PHE:O	7:CG:30:ILE:HG12	2.18	0.43
8:CH:4:ASP:OD2	8:CH:7:ALA:HB2	2.19	0.43
10:CJ:3:LYS:N	10:CJ:74:ILE:O	2.52	0.43
10:CJ:22:LYS:C	10:CJ:24:VAL:H	2.22	0.43
10:CJ:84:GLN:O	10:CJ:88:LEU:CB	2.66	0.43
10:CJ:86:MET:O	10:CJ:86:MET:HG3	2.18	0.43
12:CL:34:ARG:O	12:CL:61:THR:HG23	2.19	0.43
16:CP:51:VAL:HG13	16:CP:52:ASP:N	2.32	0.43
18:CR:62:GLU:O	18:CR:65:ILE:HG13	2.19	0.43
19:CS:42:PRO:O	19:CS:43:GLU:CB	2.65	0.43
22:D0:82:ARG:HG3	22:D0:82:ARG:O	2.18	0.43
28:D6:20:ASN:CG	28:D6:21:TYR:H	2.16	0.43
30:D8:30:ARG:HB3	31:DA:2393:A:OP2	2.19	0.43
31:DA:61:G:N2	31:DA:94:C:N3	2.59	0.43
31:DA:86:C:O2'	31:DA:87:C:H5'	2.18	0.43
31:DA:181:A:H2	31:DA:434:U:O4'	2.02	0.43
31:DA:272(J):C:C2'	31:DA:274:G:OP1	2.67	0.43
31:DA:329:G:H4'	31:DA:330:A:OP2	2.19	0.43
31:DA:485:C:H2'	31:DA:486:C:H6	1.80	0.43
31:DA:563:G:H1	31:DA:578:A:N6	2.15	0.43
31:DA:614:U:O2	31:DA:614:U:O4'	2.36	0.43
31:DA:747:U:H5'	48:DW:90:ARG:NH1	2.34	0.43
31:DA:846:C:H4'	31:DA:847:U:O5'	2.18	0.43
31:DA:1012:U:O4	39:DN:25:ARG:HA	2.17	0.43
31:DA:1033:U:C5'	31:DA:1034:G:OP1	2.66	0.43
31:DA:1115:G:C2	31:DA:1116:C:C4	3.05	0.43
31:DA:1173:G:H2'	31:DA:1175:U:C5	2.54	0.43
31:DA:1441:G:N3	31:DA:1442:G:C8	2.86	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1473:G:C5	31:DA:1474:C:C5	3.07	0.43
31:DA:1475:G:C2	31:DA:1517:G:C4	3.06	0.43
31:DA:1629:U:H2'	31:DA:1630:G:O4'	2.18	0.43
31:DA:1670:C:C2	34:DE:129:HIS:HE1	2.36	0.43
31:DA:1786:A:N9	31:DA:1938:A:N6	2.67	0.43
31:DA:1946:U:C2'	31:DA:1947:C:O5'	2.66	0.43
31:DA:2073:C:O3'	33:DD:228:PRO:HB3	2.19	0.43
31:DA:2078:C:C2	31:DA:2079:U:C6	3.07	0.43
31:DA:2417:C:C4	31:DA:2418:A:N7	2.86	0.43
31:DA:2431:U:O2	31:DA:2433:A:C8	2.71	0.43
31:DA:2580:U:O2	31:DA:2580:U:H2'	2.17	0.43
31:DA:2623:G:H4'	31:DA:2825:C:O2	2.18	0.43
31:DA:2663:G:H2'	31:DA:2664:G:C8	2.53	0.43
35:DF:119:ARG:HG2	35:DF:119:ARG:O	2.19	0.43
36:DG:32:PRO:CB	36:DG:163:ALA:HB2	2.47	0.43
41:DP:16:ARG:NH1	41:DP:18:ARG:HG3	2.33	0.43
41:DP:91:PHE:CE2	41:DP:95:VAL:HG12	2.54	0.43
42:DQ:42:ILE:HD12	42:DQ:42:ILE:N	2.33	0.43
44:DS:77:ALA:O	44:DS:78:LEU:C	2.57	0.43
45:DT:124:ASP:C	45:DT:126:ALA:N	2.72	0.43
48:DW:13:SER:O	48:DW:14:PRO:C	2.56	0.43
48:DW:64:MET:HE3	48:DW:109:GLU:HG3	2.01	0.43
49:DX:39:ILE:HA	49:DX:42:ALA:HB3	2.00	0.43
51:DZ:28:MET:HA	51:DZ:88:PHE:O	2.18	0.43
1:AA:68:G:N2	1:AA:69:G:C4	2.86	0.43
1:AA:142:G:N2	1:AA:143:A:C8	2.86	0.43
1:AA:321:A:H2'	1:AA:322:C:C6	2.53	0.43
1:AA:408:A:C5'	4:AD:116:GLN:HB2	2.48	0.43
1:AA:600:C:OP1	8:AH:97:VAL:HG12	2.19	0.43
1:AA:699:C:H2'	1:AA:700:G:H5'	2.00	0.43
1:AA:700:G:H4'	1:AA:704:A:H1'	2.00	0.43
1:AA:709:G:O2'	1:AA:710:G:H5'	2.19	0.43
1:AA:737:A:C6	1:AA:738:C:N4	2.87	0.43
1:AA:922:G:C6	1:AA:923:A:N1	2.87	0.43
1:AA:1239:A:H2'	1:AA:1298:C:H42	1.82	0.43
1:AA:1255:G:O2'	1:AA:1258:G:O2'	2.23	0.43
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.19	0.43
1:AA:1406:U:H2'	1:AA:1407:C:C6	2.54	0.43
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.57	0.43
10:AJ:84:GLN:O	10:AJ:88:LEU:CB	2.65	0.43
11:AK:95:ILE:HG23	11:AK:108:ILE:CD1	2.49	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:53:ARG:CB	12:AL:93:LEU:HD11	2.49	0.43
13:AM:15:VAL:CG2	13:AM:41:PRO:HA	2.46	0.43
15:AO:64:ARG:O	15:AO:65:ARG:C	2.57	0.43
15:AO:77:ARG:HA	15:AO:80:ALA:HB3	2.01	0.43
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.33	0.43
18:AR:59:SER:HB3	18:AR:62:GLU:OE2	2.18	0.43
20:AT:58:LYS:O	20:AT:58:LYS:HG3	2.19	0.43
22:B0:8:GLY:O	22:B0:10:THR:N	2.52	0.43
23:B1:16:ASN:OD1	23:B1:16:ASN:N	2.50	0.43
24:B2:46:GLN:CG	24:B2:47:ASN:N	2.75	0.43
25:B3:45:GLY:HA3	31:BA:852:G:H5'	2.00	0.43
27:B5:40:LYS:HZ1	27:B5:49:CYS:CB	2.32	0.43
28:B6:24:GLU:HB3	28:B6:25:LYS:H	1.48	0.43
31:BA:257:A:H2'	31:BA:258:G:O4'	2.18	0.43
31:BA:259:G:N2	31:BA:621:A:C8	2.85	0.43
31:BA:259:G:H1'	31:BA:621:A:O2'	2.19	0.43
31:BA:310:A:C4	31:BA:312:G:C8	3.06	0.43
31:BA:327:G:C2	31:BA:336:C:C2	3.06	0.43
31:BA:695:G:C4	31:BA:696:G:C8	3.07	0.43
31:BA:749:C:H4'	31:BA:1271:G:N3	2.34	0.43
31:BA:852:G:H2'	31:BA:853:G:C8	2.53	0.43
31:BA:966:G:C6	31:BA:967:C:C4	3.07	0.43
31:BA:1444:G:N2	31:BA:1548:C:C2	2.87	0.43
31:BA:1773:A:C5	31:BA:1829:A:H1'	2.53	0.43
31:BA:2273:A:C2	31:BA:2274:A:C5	3.07	0.43
31:BA:2290:G:H2'	31:BA:2291:U:O4'	2.18	0.43
31:BA:2636:U:OP1	34:BE:80:GLU:HG3	2.18	0.43
31:BA:2670:A:H8	31:BA:2670:A:H5''	1.82	0.43
31:BA:2747:G:O2'	37:BH:67:LEU:CD1	2.66	0.43
32:BB:86:G:H8	32:BB:86:G:O5'	2.01	0.43
33:BD:35:LYS:HE3	33:BD:65:ILE:HG22	1.99	0.43
33:BD:224:ALA:O	33:BD:225:ALA:CB	2.67	0.43
34:BE:95:ILE:HD12	34:BE:95:ILE:H	1.84	0.43
34:BE:143:ASN:OD1	34:BE:147:PRO:HD2	2.19	0.43
35:BF:31:HIS:O	35:BF:34:TRP:N	2.52	0.43
35:BF:62:ARG:HH21	35:BF:64:ILE:HA	1.84	0.43
36:BG:71:THR:HB	36:BG:89:GLY:CA	2.47	0.43
38:BI:92:VAL:HG23	38:BI:96:ASP:HB2	2.01	0.43
40:BO:35:VAL:CG1	40:BO:105:GLU:HB2	2.49	0.43
41:BP:84:ASN:C	41:BP:86:LYS:N	2.72	0.43
42:BQ:32:TYR:HB2	42:BQ:106:VAL:HG23	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:53:HIS:O	43:BR:56:LYS:HB3	2.18	0.43
43:BR:111:LEU:HD23	43:BR:111:LEU:HA	1.80	0.43
46:BU:21:ALA:HB2	46:BU:35:ALA:HB1	2.00	0.43
50:BY:26:LYS:HE2	50:BY:27:VAL:HG23	2.00	0.43
51:BZ:53:ILE:H	51:BZ:53:ILE:HG12	1.56	0.43
51:BZ:115:GLY:HA2	51:BZ:177:PRO:HD3	1.99	0.43
1:CA:32:A:C2	1:CA:33:A:C5	3.07	0.43
1:CA:321:A:H2'	1:CA:322:C:C6	2.54	0.43
1:CA:352:C:H6	1:CA:352:C:OP1	2.01	0.43
1:CA:693:G:H2'	1:CA:694:A:C8	2.54	0.43
1:CA:753:A:H4'	1:CA:754:C:O4'	2.19	0.43
1:CA:763:G:C5	1:CA:764:C:C5	3.07	0.43
1:CA:779:C:H1'	11:CK:120:ARG:HD2	2.00	0.43
1:CA:960:U:O2	1:CA:960:U:C2'	2.66	0.43
1:CA:991:U:C2'	1:CA:992:U:OP2	2.66	0.43
1:CA:1287:A:N6	1:CA:1288:A:N6	2.66	0.43
1:CA:1334:G:OP2	1:CA:1334:G:H8	2.01	0.43
5:CE:20:GLN:HE21	5:CE:20:GLN:HB3	1.60	0.43
6:CF:63:TYR:O	6:CF:65:VAL:HG13	2.18	0.43
10:CJ:38:ILE:HG12	10:CJ:71:LEU:O	2.19	0.43
15:CO:39:LEU:HD21	15:CO:42:HIS:HD2	1.82	0.43
16:CP:21:VAL:HG22	16:CP:34:GLU:O	2.18	0.43
18:CR:57:GLY:O	18:CR:58:LEU:HD12	2.17	0.43
20:CT:30:LYS:HZ1	20:CT:80:ARG:NH1	2.17	0.43
23:D1:10:LYS:HB2	23:D1:14:VAL:CA	2.48	0.43
23:D1:48:LYS:O	23:D1:62:VAL:O	2.35	0.43
28:D6:44:ARG:HB3	28:D6:45:LYS:H	1.63	0.43
29:D7:40:TRP:CZ3	31:DA:459:U:H4'	2.53	0.43
30:D8:41:ILE:HD12	30:D8:42:ARG:N	2.34	0.43
30:D8:61:LEU:C	30:D8:63:PRO:HD2	2.39	0.43
31:DA:64:A:OP1	49:DX:70:LEU:HD12	2.18	0.43
31:DA:154(A):C:OP2	31:DA:154(A):C:C2	2.71	0.43
31:DA:263:C:H2'	31:DA:264:C:O4'	2.19	0.43
31:DA:422:A:H8	31:DA:422:A:O5'	2.01	0.43
31:DA:510:C:H2'	31:DA:511:U:O4'	2.18	0.43
31:DA:543:C:N4	31:DA:551:G:N1	2.66	0.43
31:DA:939:G:C4	31:DA:940:G:C8	3.07	0.43
31:DA:1206:G:C6	31:DA:1207:C:C4	3.05	0.43
31:DA:1248:G:C5	46:DU:3:ARG:HB2	2.53	0.43
31:DA:1278:A:H2'	31:DA:1279:G:H8	1.84	0.43
31:DA:1315:C:H2'	31:DA:1316:U:C6	2.53	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1422:G:C4	31:DA:1423:G:C8	3.06	0.43
31:DA:1465:G:N1	31:DA:1466:G:C5	2.87	0.43
31:DA:1649:G:N1	31:DA:2009:G:C6	2.86	0.43
31:DA:1710:C:H4'	31:DA:2858:C:O2	2.19	0.43
31:DA:1833:U:C5	31:DA:1834:U:C5	3.06	0.43
31:DA:1882:C:C2	31:DA:1883:G:C8	3.06	0.43
31:DA:2197:U:C5	31:DA:2224:G:C6	3.07	0.43
31:DA:2275:C:H5''	31:DA:2275:C:H6	1.82	0.43
31:DA:2283:C:H2'	31:DA:2284:C:O4'	2.18	0.43
31:DA:2418:A:C5	31:DA:2419:U:C4	3.06	0.43
31:DA:2465:C:C2	31:DA:2486:G:C2	3.06	0.43
31:DA:2469:A:C6	31:DA:2470:G:C4	3.07	0.43
31:DA:2586:C:O2'	31:DA:2587:A:H5'	2.18	0.43
31:DA:2636:U:H4'	34:DE:80:GLU:CD	2.39	0.43
31:DA:2638:G:C4	31:DA:2775:A:C2	3.06	0.43
31:DA:2645:G:H3'	31:DA:2646:C:C5'	2.47	0.43
32:DB:24:G:N2	32:DB:56:G:H22	2.17	0.43
32:DB:110:G:C6	32:DB:111:G:N7	2.86	0.43
33:DD:27:THR:O	33:DD:28:GLU:CB	2.67	0.43
33:DD:124:PRO:HG2	33:DD:129:ASN:ND2	2.34	0.43
33:DD:159:ALA:HB1	33:DD:198:ASN:O	2.18	0.43
34:DE:2:LYS:HA	34:DE:84:PHE:CE2	2.53	0.43
34:DE:24:THR:HG23	34:DE:184:VAL:CG2	2.48	0.43
38:DI:92:VAL:HG23	38:DI:96:ASP:HB2	2.01	0.43
39:DN:91:LEU:HD21	39:DN:98:VAL:HG21	1.98	0.43
43:DR:103:ARG:O	43:DR:104:ARG:C	2.57	0.43
46:DU:5:LYS:O	46:DU:6:THR:C	2.57	0.43
47:DV:47:VAL:HG22	47:DV:48:GLY:N	2.33	0.43
49:DX:25:LYS:NZ	49:DX:90:GLU:HB2	2.34	0.43
49:DX:93:GLU:O	49:DX:95:LEU:N	2.52	0.43
50:DY:9:LYS:O	50:DY:10:GLY:C	2.56	0.43
51:DZ:108:PRO:HA	51:DZ:142:SER:CA	2.44	0.43
1:AA:316:G:N2	1:AA:338:A:C4	2.87	0.43
1:AA:575:G:C5	1:AA:881:G:C2	3.06	0.43
1:AA:623:C:C4	1:AA:624:C:C4	3.07	0.43
1:AA:684:A:C6	1:AA:685:G:C6	3.07	0.43
1:AA:702:A:H4'	1:AA:703:G:OP2	2.19	0.43
1:AA:725:G:C2	1:AA:726:C:C5	3.07	0.43
1:AA:745:C:H1'	1:AA:836:G:O2'	2.19	0.43
1:AA:997:U:H2'	1:AA:998:G:H8	1.77	0.43
1:AA:1064:G:H5'	1:AA:1066:C:C1'	2.43	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1173:G:C5	1:AA:1174:G:N7	2.87	0.43
1:AA:1285:A:OP1	1:AA:1285:A:C8	2.71	0.43
1:AA:1313:U:OP2	19:AS:6:LYS:CB	2.66	0.43
1:AA:1433:A:C4	1:AA:1468:A:C2	3.07	0.43
2:AB:20:GLU:HG3	2:AB:191:ASP:HB2	1.99	0.43
2:AB:61:LEU:HG	2:AB:68:ILE:HD11	1.99	0.43
2:AB:179:LYS:HB2	2:AB:179:LYS:NZ	2.34	0.43
4:AD:3:ARG:HD3	4:AD:3:ARG:O	2.18	0.43
4:AD:10:ARG:O	4:AD:13:ARG:HB2	2.18	0.43
4:AD:79:PHE:C	4:AD:79:PHE:HD2	2.22	0.43
6:AF:3:ARG:HG3	6:AF:3:ARG:NH1	2.31	0.43
7:AG:144:MET:O	7:AG:148:ASN:HB2	2.19	0.43
8:AH:51:VAL:CG1	8:AH:60:ARG:HG3	2.44	0.43
18:AR:31:LEU:O	18:AR:32:ARG:HB2	2.18	0.43
20:AT:24:LEU:HD13	20:AT:24:LEU:C	2.39	0.43
24:B2:30:ARG:HG3	24:B2:30:ARG:NH1	2.34	0.43
27:B5:51:TYR:CB	27:B5:52:TYR:O	2.67	0.43
31:BA:271(M):G:O2'	38:BI:53:ALA:CB	2.67	0.43
31:BA:330:A:O2'	31:BA:331:A:H8	2.01	0.43
31:BA:603:A:H1'	31:BA:604:G:O4'	2.18	0.43
31:BA:734:A:C4	31:BA:735:A:C8	3.07	0.43
31:BA:864:G:N2	31:BA:913:U:C2	2.86	0.43
31:BA:866:A:C6	31:BA:914:C:C6	3.07	0.43
31:BA:884:C:H6	31:BA:884:C:H3'	1.84	0.43
31:BA:1027:A:N6	31:BA:1126:A:C4	2.87	0.43
31:BA:1169:G:C8	31:BA:1169:G:H3'	2.54	0.43
31:BA:1450(A):C:C2	31:BA:1451:C:C5	3.07	0.43
31:BA:1629:U:H2'	31:BA:1630:G:C8	2.53	0.43
31:BA:1687:G:H2'	31:BA:1688:U:H6	1.84	0.43
31:BA:1783:A:C2	31:BA:2587:A:C5	3.06	0.43
31:BA:1803:A:C2'	31:BA:1804:C:H5'	2.48	0.43
31:BA:1848:A:O2'	31:BA:1849:G:H5'	2.17	0.43
31:BA:1853:A:N1	31:BA:2087:G:H1'	2.34	0.43
31:BA:1902:C:H4'	33:BD:244:ARG:HB2	2.00	0.43
31:BA:1914:C:O2	31:BA:1914:C:O4'	2.36	0.43
31:BA:2418:A:C5	31:BA:2419:U:C4	3.06	0.43
31:BA:2807:G:C3'	31:BA:2808:U:H5''	2.42	0.43
31:BA:2836:U:C4	31:BA:2883:A:N6	2.87	0.43
32:BB:55:U:C4	32:BB:56:G:N7	2.87	0.43
33:BD:137:PRO:HB2	33:BD:140:THR:CG2	2.49	0.43
33:BD:157:ARG:HA	33:BD:196:VAL:HG21	2.01	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:103:ASP:CG	34:BE:168:MET:HE2	2.39	0.43
35:BF:24:LEU:O	35:BF:25:PRO:C	2.56	0.43
36:BG:15:VAL:HG12	36:BG:19:LEU:HG	2.00	0.43
36:BG:89:GLY:O	36:BG:90:LEU:O	2.36	0.43
38:BI:41:GLU:O	38:BI:42:SER:C	2.56	0.43
39:BN:91:LEU:HD21	39:BN:98:VAL:HG21	1.99	0.43
45:BT:31:SER:HB2	45:BT:33:LYS:HZ1	1.84	0.43
46:BU:62:ILE:HG13	46:BU:76:TYR:CE1	2.54	0.43
47:BV:19:LYS:O	47:BV:20:LEU:HG	2.19	0.43
47:BV:80:GLN:OE1	47:BV:80:GLN:C	2.57	0.43
50:BY:49:VAL:HG12	50:BY:53:PRO:HG3	2.00	0.43
50:BY:52:SER:O	50:BY:54:LYS:N	2.51	0.43
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.82	0.43
1:CA:358:U:N3	1:CA:359:U:C4	2.86	0.43
1:CA:592:G:C2	1:CA:648:A:C2	3.07	0.43
1:CA:700:G:H4'	1:CA:704:A:H1'	2.00	0.43
1:CA:830:G:H2'	1:CA:831:U:H6	1.84	0.43
1:CA:861:G:O2'	1:CA:862:C:H5'	2.19	0.43
1:CA:900:A:H2'	1:CA:901:A:O4'	2.19	0.43
1:CA:945:G:C6	1:CA:1337:G:C6	3.07	0.43
1:CA:977:A:C2'	1:CA:978:A:H5'	2.48	0.43
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.77	0.43
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.19	0.43
1:CA:1405:G:O4'	1:CA:1519:A:H4'	2.18	0.43
1:CA:1446:U:O2'	1:CA:1447:A:C8	2.70	0.43
2:CB:32:ILE:HG13	2:CB:34:ALA:N	2.33	0.43
6:CF:8:ILE:HG12	6:CF:88:VAL:HG22	2.00	0.43
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	2.01	0.43
12:CL:26:ALA:O	12:CL:27:LEU:HB2	2.18	0.43
16:CP:39:TYR:CE1	16:CP:41:PRO:HA	2.54	0.43
16:CP:49:LEU:HD21	16:CP:77:ALA:HB2	2.00	0.43
17:CQ:100:LYS:HA	17:CQ:100:LYS:HD3	1.85	0.43
18:CR:73:ALA:CB	18:CR:79:LEU:HD12	2.49	0.43
20:CT:94:ALA:O	20:CT:95:ALA:CB	2.66	0.43
24:D2:29:LYS:C	24:D2:33:MET:SD	2.97	0.43
24:D2:45:SER:HB3	24:D2:48:HIS:CB	2.48	0.43
28:D6:15:GLU:OE2	28:D6:41:PRO:HG3	2.18	0.43
29:D7:40:TRP:CG	31:DA:459:U:H5''	2.54	0.43
31:DA:195:A:H61	31:DA:198:C:H3'	1.84	0.43
31:DA:354:G:O5'	31:DA:354:G:C8	2.60	0.43
31:DA:380:U:C2	31:DA:381:G:C8	3.05	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:449:A:H2'	31:DA:450:G:H5'	2.00	0.43
31:DA:864:G:H2'	31:DA:865:C:C6	2.53	0.43
31:DA:966:G:C6	31:DA:967:C:C4	3.07	0.43
31:DA:999:U:H5''	31:DA:1154:G:O6	2.19	0.43
31:DA:1449:A:N6	31:DA:1450:G:C4	2.87	0.43
31:DA:1690:A:C8	31:DA:1691:C:C5	3.07	0.43
31:DA:1722:A:C5	31:DA:1741:A:N1	2.86	0.43
31:DA:1876:A:C2	31:DA:1877:A:C5	3.07	0.43
31:DA:2092:U:C5	31:DA:2226:C:OP1	2.68	0.43
31:DA:2441:C:OP1	31:DA:2441:C:H4'	2.19	0.43
31:DA:2472:G:C5	31:DA:2475:C:C4	3.06	0.43
31:DA:2489:G:C6	31:DA:2490:G:C6	3.06	0.43
31:DA:2738:A:C2	31:DA:2739:U:H1'	2.53	0.43
31:DA:2786:U:O2	31:DA:2786:U:H2'	2.18	0.43
32:DB:73:A:C8	32:DB:104:U:O4	2.72	0.43
32:DB:75:G:N3	51:DZ:85:HIS:CE1	2.87	0.43
33:DD:53:PHE:HB3	33:DD:218:ARG:O	2.18	0.43
35:DF:97:TYR:N	35:DF:97:TYR:CD2	2.86	0.43
35:DF:140:LEU:O	35:DF:141:ALA:C	2.57	0.43
37:DH:92:ILE:CG2	37:DH:93:GLY:H	2.29	0.43
38:DI:79:ILE:HA	38:DI:80:PRO:HD3	1.77	0.43
39:DN:82:LEU:O	39:DN:83:LYS:C	2.57	0.43
40:DO:71:ARG:O	40:DO:74:GLY:N	2.49	0.43
42:DQ:106:VAL:CG2	42:DQ:114:ALA:HB1	2.44	0.43
43:DR:5:LYS:N	43:DR:5:LYS:CD	2.70	0.43
43:DR:55:ALA:HB2	43:DR:79:LEU:CD1	2.49	0.43
44:DS:13:ARG:O	44:DS:15:ARG:N	2.51	0.43
44:DS:26:LEU:HG	44:DS:39:ILE:CD1	2.48	0.43
45:DT:28:VAL:CG2	45:DT:46:GLU:CG	2.96	0.43
45:DT:33:LYS:HA	45:DT:33:LYS:HD3	1.24	0.43
46:DU:50:ARG:CZ	47:DV:75:PHE:CE2	3.02	0.43
47:DV:70:ILE:HG13	47:DV:71:LEU:N	2.34	0.43
47:DV:96:ILE:HG22	47:DV:97:LYS:N	2.34	0.43
48:DW:103:ILE:H	48:DW:103:ILE:HD12	1.84	0.43
49:DX:35:THR:HB	49:DX:75:ASP:CG	2.37	0.43
50:DY:88:LYS:HB3	50:DY:90:LEU:HG	2.00	0.43
1:AA:59:A:C8	1:AA:354:G:N1	2.87	0.43
1:AA:258:G:N3	1:AA:259:G:C8	2.86	0.43
1:AA:385:C:C2'	1:AA:386:C:H5'	2.49	0.43
1:AA:397:A:C5	1:AA:548:G:C8	3.06	0.43
1:AA:408:A:N6	1:AA:409:G:C6	2.87	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:C3'	1:AA:782:A:H5'	2.48	0.43
1:AA:976:G:C8	1:AA:1362:C:N4	2.86	0.43
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.19	0.43
1:AA:1121:U:C4	1:AA:1122:U:C4	3.06	0.43
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.54	0.43
1:AA:1516:G:N1	1:AA:1519:A:OP2	2.51	0.43
2:AB:88:ALA:CB	2:AB:219:VAL:HG13	2.44	0.43
3:AC:110:ASN:HB3	3:AC:144:SER:OG	2.19	0.43
3:AC:122:GLU:O	3:AC:126:ARG:HG3	2.18	0.43
5:AE:18:ARG:HE	5:AE:25:ARG:HB3	1.84	0.43
6:AF:11:ASN:O	6:AF:14:LEU:HD12	2.18	0.43
6:AF:46:ARG:HB2	6:AF:60:PHE:CD1	2.53	0.43
11:AK:41:THR:CG2	11:AK:42:TRP:N	2.81	0.43
11:AK:65:ALA:HB3	11:AK:97:ALA:CB	2.48	0.43
15:AO:25:THR:HA	15:AO:28:GLN:HE21	1.84	0.43
20:AT:43:LEU:CD1	20:AT:55:ILE:HG13	2.49	0.43
20:AT:79:ARG:HB2	20:AT:79:ARG:HH11	1.84	0.43
24:B2:29:LYS:O	24:B2:32:LEU:HB3	2.18	0.43
25:B3:13:ILE:N	25:B3:13:ILE:HD13	2.33	0.43
27:B5:16:ARG:NH1	27:B5:16:ARG:CG	2.71	0.43
30:B8:13:ARG:HB3	41:BP:63:PRO:HA	2.01	0.43
31:BA:39:C:C2'	31:BA:40:C:H5'	2.49	0.43
31:BA:125:G:C4'	31:BA:126:A:OP2	2.65	0.43
31:BA:197:A:H61	31:BA:2431:U:H5'	1.83	0.43
31:BA:272(E):G:C6	31:BA:364:C:N4	2.87	0.43
31:BA:344:G:O2'	31:BA:345:A:H5'	2.19	0.43
31:BA:676:A:H2	31:BA:802:A:N6	1.97	0.43
31:BA:721:C:C2	31:BA:722:A:C8	3.06	0.43
31:BA:745:G:C3'	31:BA:746:A:H5'	2.48	0.43
31:BA:882:G:H8	31:BA:882:G:O5'	2.02	0.43
31:BA:919:G:H4'	32:BB:81:G:H4'	2.01	0.43
31:BA:1139:G:H5'	39:BN:102:ALA:HB1	2.01	0.43
31:BA:1221:C:H2'	31:BA:1221(A):C:C6	2.53	0.43
31:BA:1269:A:H2'	31:BA:1270:C:C6	2.53	0.43
31:BA:1326:U:O2'	31:BA:1327:C:H5'	2.19	0.43
31:BA:1343:G:H1	31:BA:1404:C:N4	2.16	0.43
31:BA:1405:U:C2	31:BA:1406:U:C5	3.07	0.43
31:BA:1419:A:C3'	31:BA:1420:U:H5''	2.48	0.43
31:BA:1576:U:N3	31:BA:1577:C:C5	2.87	0.43
31:BA:1630:G:H2'	31:BA:1631:C:C6	2.54	0.43
31:BA:1689:A:N6	31:BA:1698:A:H2	2.17	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1820:U:C4'	31:BA:1821:A:OP2	2.56	0.43
31:BA:2059:A:O2'	35:BF:69:HIS:CD2	2.64	0.43
31:BA:2063:C:O2	31:BA:2450:A:N1	2.52	0.43
31:BA:2246:G:H1'	31:BA:2426:A:C2	2.53	0.43
31:BA:2323:G:H2'	31:BA:2324:C:O4'	2.18	0.43
31:BA:2428:G:H5''	31:BA:2429:G:O5'	2.19	0.43
31:BA:2603:G:C4	31:BA:2604:U:C6	3.07	0.43
31:BA:2844:G:N2	31:BA:2845:G:H1'	2.34	0.43
31:BA:2895:U:H3'	31:BA:2895:U:H6	1.82	0.43
35:BF:8:GLN:HA	35:BF:8:GLN:OE1	2.19	0.43
36:BG:178:PHE:HB3	36:BG:180:PHE:CE1	2.54	0.43
38:BI:77:LEU:HD22	38:BI:104:GLN:OE1	2.19	0.43
39:BN:34:LEU:HD13	39:BN:34:LEU:HA	1.92	0.43
39:BN:49:GLY:O	39:BN:119:ARG:NH1	2.52	0.43
41:BP:85:LEU:HB2	41:BP:120:ALA:HB2	2.01	0.43
42:BQ:63:LYS:HD2	51:BZ:175:VAL:HG21	1.99	0.43
42:BQ:134:ARG:C	42:BQ:136:ALA:N	2.72	0.43
45:BT:31:SER:HA	45:BT:32:TYR:CD2	2.54	0.43
46:BU:90:VAL:CG1	46:BU:91:ASP:H	2.19	0.43
48:BW:64:MET:O	48:BW:65:LEU:HB2	2.19	0.43
50:BY:7:VAL:HB	50:BY:8:LYS:NZ	2.33	0.43
50:BY:73:ARG:HH21	50:BY:82:PRO:HD3	1.83	0.43
50:BY:96:ILE:HG13	50:BY:100:ALA:O	2.19	0.43
1:CA:15:G:H1	1:CA:922:G:H1	1.60	0.43
1:CA:37:U:C2'	1:CA:38:G:H5'	2.49	0.43
1:CA:147:G:C4	1:CA:148:G:C8	3.07	0.43
1:CA:151:A:C6	1:CA:152:A:C4	3.07	0.43
1:CA:277:C:P	17:CQ:41:LYS:HE3	2.59	0.43
1:CA:336:C:H2'	1:CA:337:C:H6	1.83	0.43
1:CA:829:G:C6	1:CA:858:G:N2	2.86	0.43
1:CA:962:C:H42	1:CA:974:A:N6	2.17	0.43
1:CA:1077:G:N1	1:CA:1081:G:C6	2.86	0.43
1:CA:1089:G:C2	1:CA:1090:U:C2	3.07	0.43
1:CA:1366:C:OP1	9:CI:117:HIS:CE1	2.72	0.43
1:CA:1399:C:C4'	1:CA:1400:C:H5''	2.41	0.43
2:CB:90:MET:HA	2:CB:90:MET:CE	2.48	0.43
2:CB:171:ALA:HA	2:CB:174:VAL:HG23	2.00	0.43
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	2.00	0.43
3:CC:125:GLU:HG2	3:CC:190:ARG:H	1.84	0.43
4:CD:65:ARG:HD2	4:CD:72:GLU:HA	2.01	0.43
8:CH:36:LEU:CA	8:CH:39:LEU:HD23	2.40	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:102:ARG:N	8:CH:102:ARG:NE	2.59	0.43
9:CI:21:PRO:HA	9:CI:58:ARG:O	2.18	0.43
13:CM:66:LEU:HB2	13:CM:67:GLU:H	1.55	0.43
15:CO:36:ILE:CD1	15:CO:63:ARG:HD3	2.48	0.43
15:CO:69:TYR:HA	15:CO:72:ARG:NH2	2.33	0.43
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	2.19	0.43
22:D0:32:ARG:H	22:D0:35:ASN:ND2	2.12	0.43
24:D2:27:GLU:O	24:D2:28:LYS:C	2.57	0.43
28:D6:12:GLU:HB2	28:D6:21:TYR:HD2	1.83	0.43
30:D8:36:LYS:HE2	30:D8:36:LYS:HB2	1.83	0.43
31:DA:59:U:O2'	31:DA:73:A:H2'	2.17	0.43
31:DA:183:C:H2'	31:DA:184:C:H5'	2.00	0.43
31:DA:244:A:H2'	31:DA:245:G:O4'	2.19	0.43
31:DA:413:C:HO2'	31:DA:1880:C:HO2'	1.64	0.43
31:DA:498:G:C6	31:DA:499:U:C4	3.06	0.43
31:DA:775:G:C2	31:DA:777:A:N6	2.87	0.43
31:DA:915:C:C5	31:DA:916:G:C5	3.06	0.43
31:DA:974:G:N2	31:DA:989:G:H1'	2.33	0.43
31:DA:1000:A:N6	31:DA:1155:A:C8	2.87	0.43
31:DA:1022:G:C6	31:DA:1141:U:C5	3.07	0.43
31:DA:1047:G:C2'	31:DA:1110:G:H22	2.31	0.43
31:DA:1291:C:H2'	31:DA:1292:U:H6	1.79	0.43
31:DA:1321:A:C6	31:DA:1322:A:C5	3.07	0.43
31:DA:1341:U:OP2	31:DA:1394:U:O2'	2.23	0.43
31:DA:1769:G:C6	31:DA:1984:G:C6	3.07	0.43
31:DA:1772:G:N1	31:DA:1980:G:C6	2.87	0.43
31:DA:1831:G:H2'	31:DA:1832:C:H6	1.84	0.43
31:DA:2333:A:C2'	31:DA:2334:G:OP2	2.67	0.43
31:DA:2478:A:H2'	31:DA:2479:G:O4'	2.18	0.43
31:DA:2495:G:C6	31:DA:2496:C:C4	3.07	0.43
31:DA:2591:C:OP2	33:DD:239:ARG:HB2	2.18	0.43
31:DA:2627:G:O2'	31:DA:2781:A:N1	2.33	0.43
31:DA:2838:G:OP1	43:DR:8:ARG:HD2	2.18	0.43
55:DA:3320:TEL:H541	55:DA:3320:TEL:H582	1.61	0.43
33:DD:17:THR:CG2	33:DD:205:VAL:H	2.24	0.43
33:DD:133:LEU:HD21	33:DD:191:ALA:CB	2.49	0.43
37:DH:35:VAL:O	37:DH:37:VAL:HG23	2.19	0.43
37:DH:149:ARG:O	37:DH:152:ARG:O	2.37	0.43
38:DI:88:ILE:HG23	38:DI:88:ILE:HD13	1.72	0.43
39:DN:55:VAL:HG12	39:DN:126:PRO:CA	2.40	0.43
39:DN:85:ILE:HA	39:DN:86:PRO:HD2	1.83	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:121:LYS:HA	39:DN:121:LYS:HE3	2.00	0.43
45:DT:30:VAL:HG22	45:DT:84:GLN:O	2.18	0.43
46:DU:20:LEU:CD2	46:DU:20:LEU:N	2.81	0.43
48:DW:14:PRO:O	48:DW:15:ARG:C	2.57	0.43
49:DX:72:LYS:O	49:DX:73:ARG:CB	2.66	0.43
50:DY:46:LYS:O	50:DY:60:PHE:CE2	2.72	0.43
50:DY:80:GLY:O	50:DY:81:LYS:HB3	2.19	0.43
1:AA:42:G:O2'	1:AA:622:A:N1	2.46	0.43
1:AA:73:G:N1	1:AA:97:G:C6	2.87	0.43
1:AA:195:A:N7	1:AA:196:A:C6	2.86	0.43
1:AA:329:A:C2	1:AA:332:G:C4	3.07	0.43
1:AA:452:A:OP1	16:AP:43:LYS:HE3	2.19	0.43
1:AA:458:C:C2'	1:AA:460:G:H8	2.31	0.43
1:AA:539:A:C6	1:AA:540:G:C6	3.07	0.43
1:AA:577:G:H2'	1:AA:578:C:H6	1.83	0.43
1:AA:834:C:H2'	1:AA:835:U:H6	1.82	0.43
1:AA:967:C:H5''	1:AA:968:A:OP2	2.18	0.43
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.83	0.43
1:AA:1266:G:N2	1:AA:1270:C:N3	2.67	0.43
1:AA:1268:A:O2'	21:AU:19:GLY:HA2	2.19	0.43
2:AB:55:PHE:CZ	2:AB:218:ALA:HA	2.53	0.43
2:AB:60:ASP:C	2:AB:64:ARG:HG2	2.39	0.43
4:AD:33:MET:CE	4:AD:33:MET:HA	2.48	0.43
4:AD:72:GLU:OE1	4:AD:207:TYR:OH	2.37	0.43
6:AF:11:ASN:HB3	6:AF:14:LEU:HG	2.00	0.43
6:AF:12:PRO:HG3	6:AF:55:ASP:HB3	2.00	0.43
7:AG:40:ALA:O	7:AG:44:TYR:CD1	2.72	0.43
7:AG:75:VAL:CG2	7:AG:144:MET:HB3	2.49	0.43
7:AG:108:ALA:HB1	7:AG:120:ILE:HD13	2.01	0.43
8:AH:112:LEU:CD2	8:AH:133:LEU:HD23	2.48	0.43
9:AI:96:LEU:CD2	9:AI:102:LEU:HD12	2.49	0.43
12:AL:11:VAL:HG13	17:AQ:29:HIS:HD2	1.84	0.43
15:AO:39:LEU:O	15:AO:40:SER:C	2.57	0.43
16:AP:57:ARG:CZ	16:AP:79:VAL:O	2.66	0.43
17:AQ:5:VAL:HG13	17:AQ:6:LEU:H	1.84	0.43
18:AR:36:ASN:O	18:AR:39:VAL:HB	2.19	0.43
23:B1:28:GLY:C	23:B1:30:VAL:H	2.20	0.43
24:B2:52:ASP:OD1	31:BA:76:C:O4'	2.36	0.43
25:B3:52:HIS:N	25:B3:52:HIS:HD2	2.17	0.43
27:B5:33:CYS:HA	27:B5:34:PRO:HD2	1.76	0.43
28:B6:26:ASN:ND2	28:B6:32:ASN:ND2	2.63	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:58:ILE:O	30:B8:61:LEU:CG	2.63	0.43
31:BA:64:A:C2'	31:BA:65:C:H5'	2.49	0.43
31:BA:479:A:HO2'	31:BA:481:G:H8	1.63	0.43
31:BA:507:A:O4'	31:BA:509:C:C2	2.72	0.43
31:BA:1018:C:C2'	31:BA:1019:U:H5'	2.49	0.43
31:BA:1153:C:OP1	46:BU:93:LYS:NZ	2.51	0.43
31:BA:1274:A:N3	31:BA:1297:C:H1'	2.33	0.43
31:BA:1489:U:O2'	31:BA:1490:A:H5''	2.19	0.43
31:BA:1700:A:H2'	31:BA:1701:A:O5'	2.19	0.43
31:BA:1799:G:O6	33:BD:178:PRO:HG2	2.18	0.43
31:BA:2052:G:C8	34:BE:141:ILE:HD11	2.54	0.43
31:BA:2100:G:H2'	31:BA:2100:G:N3	2.32	0.43
31:BA:2328:A:H2'	31:BA:2329:G:C8	2.54	0.43
31:BA:2439:A:C8	31:BA:2439:A:C5'	3.01	0.43
31:BA:2476:A:C4	31:BA:2477:C:C6	3.06	0.43
31:BA:2692:C:H1'	31:BA:2847:U:O2'	2.19	0.43
31:BA:2771:C:H2'	31:BA:2772:C:H6	1.84	0.43
32:BB:18:G:C6	32:BB:19:G:C5	3.07	0.43
32:BB:35:U:H2'	32:BB:36:C:O4'	2.18	0.43
32:BB:58:A:N3	32:BB:58:A:C2'	2.80	0.43
32:BB:82:G:O2'	32:BB:83:G:H5'	2.19	0.43
33:BD:117:VAL:HA	33:BD:129:ASN:OD1	2.19	0.43
35:BF:22:ALA:HB1	35:BF:26:ALA:CB	2.49	0.43
35:BF:36:VAL:HG11	35:BF:183:VAL:CG1	2.48	0.43
36:BG:96:ARG:CG	36:BG:97:ASP:N	2.81	0.43
37:BH:141:VAL:HG12	37:BH:142:GLY:H	1.79	0.43
39:BN:46:VAL:HG13	39:BN:48:MET:HG3	2.01	0.43
39:BN:104:LYS:HE3	39:BN:104:LYS:HB2	1.77	0.43
39:BN:128:HIS:O	39:BN:129:PRO:C	2.57	0.43
40:BO:77:ILE:HG13	45:BT:74:ARG:HG2	1.99	0.43
40:BO:107:ARG:HH12	45:BT:35:LYS:CE	2.32	0.43
40:BO:107:ARG:HH12	45:BT:35:LYS:HE2	1.83	0.43
41:BP:121:LYS:HG3	25:D3:2:PRO:CD	2.49	0.43
42:BQ:139:GLU:O	51:BZ:99:TYR:CD2	2.71	0.43
43:BR:2:ARG:HD3	43:BR:5:LYS:HZ2	1.84	0.43
43:BR:107:ASP:C	43:BR:107:ASP:OD2	2.57	0.43
46:BU:92:ARG:CB	47:BV:11:GLN:NE2	2.60	0.43
47:BV:32:THR:HB	47:BV:64:HIS:CE1	2.54	0.43
47:BV:64:HIS:O	47:BV:66:ARG:N	2.51	0.43
50:BY:13:VAL:HG13	50:BY:72:VAL:HB	1.99	0.43
50:BY:31:LEU:HB2	50:BY:36:ALA:H	1.84	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:83:THR:HG22	50:BY:84:ARG:H	1.83	0.43
51:BZ:108:PRO:O	51:BZ:109:ALA:C	2.57	0.43
1:CA:50:A:N6	1:CA:361:G:H4'	2.34	0.43
1:CA:119:A:C5	1:CA:240:C:C4	3.07	0.43
1:CA:241:C:H2'	1:CA:242:C:C6	2.54	0.43
1:CA:293:G:C5	1:CA:294:U:C5	3.07	0.43
1:CA:322:C:OP2	1:CA:328:C:N4	2.51	0.43
1:CA:425:G:O3'	4:CD:45:GLN:NE2	2.52	0.43
1:CA:498:U:N3	1:CA:499:A:N7	2.66	0.43
1:CA:584:G:H8	1:CA:584:G:O5'	2.01	0.43
1:CA:640:A:N3	8:CH:115:SER:HB2	2.34	0.43
1:CA:665:A:C2	1:CA:733:A:C8	3.07	0.43
1:CA:671:G:N2	1:CA:672:U:H1'	2.34	0.43
1:CA:737:A:H1'	6:CF:73:ASN:OD1	2.19	0.43
1:CA:780:A:H1'	1:CA:803:G:N2	2.34	0.43
1:CA:958:A:N1	19:CS:54:GLY:HA3	2.34	0.43
1:CA:966:G:H5''	1:CA:969:A:N7	2.34	0.43
1:CA:1053:G:C2	1:CA:1199:U:C4	3.07	0.43
1:CA:1074:G:C4	1:CA:1102:A:C2	3.07	0.43
1:CA:1094:G:O2'	1:CA:1108:G:N1	2.52	0.43
3:CC:125:GLU:OE2	3:CC:189:ALA:HA	2.18	0.43
3:CC:126:ARG:O	3:CC:127:ARG:HB2	2.18	0.43
5:CE:144:THR:O	5:CE:145:LYS:C	2.56	0.43
6:CF:82:ARG:HA	6:CF:82:ARG:HH11	1.83	0.43
10:CJ:7:LYS:HA	10:CJ:71:LEU:HD12	2.01	0.43
11:CK:30:VAL:HG21	11:CK:68:ALA:HB2	2.01	0.43
12:CL:69:TYR:CG	12:CL:70:ILE:N	2.87	0.43
13:CM:14:ARG:NH1	13:CM:42:ALA:HA	2.34	0.43
23:D1:87:PRO:CG	23:D1:88:LYS:N	2.78	0.43
31:DA:40:C:H2'	31:DA:41:C:C6	2.54	0.43
31:DA:70:G:H2'	31:DA:113:G:O2'	2.18	0.43
31:DA:89:G:OP1	31:DA:90:U:O2	2.37	0.43
31:DA:527:C:O4'	31:DA:527:C:O2	2.33	0.43
31:DA:597:U:H2'	31:DA:598:G:C8	2.53	0.43
31:DA:641:C:O2'	31:DA:2350:C:OP1	2.25	0.43
31:DA:896:A:N3	31:DA:898:C:H5''	2.32	0.43
31:DA:921:G:C6	31:DA:922:U:C4	3.06	0.43
31:DA:962:G:C6	31:DA:963:U:C4	3.06	0.43
31:DA:1186:G:H2'	31:DA:1187:G:O4'	2.19	0.43
31:DA:1192:G:C2'	31:DA:1193:G:H5'	2.48	0.43
31:DA:1328:G:H2'	31:DA:1330:C:C5	2.53	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1656:C:O2'	31:DA:1657:C:H5'	2.19	0.43
31:DA:1670:C:OP2	31:DA:2550:G:OP1	2.36	0.43
31:DA:1682:G:C5	31:DA:1683:C:C4	3.06	0.43
31:DA:1695:G:C8	33:DD:8:PRO:HG2	2.54	0.43
31:DA:1819:A:H3'	33:DD:178:PRO:HB2	2.00	0.43
31:DA:2009:G:H1'	43:DR:107:ASP:O	2.19	0.43
31:DA:2013:A:N6	31:DA:2014:A:C6	2.87	0.43
31:DA:2199:A:C8	31:DA:2200:C:C5	3.07	0.43
31:DA:2463:C:C2'	31:DA:2464:C:C5'	2.91	0.43
34:DE:77:ILE:HG21	34:DE:79:ARG:HE	1.84	0.43
36:DG:43:LEU:HD22	36:DG:43:LEU:N	2.34	0.43
37:DH:164:TYR:N	37:DH:164:TYR:CD1	2.87	0.43
39:DN:37:LYS:CD	46:DU:63:VAL:HG13	2.48	0.43
40:DO:55:GLY:O	40:DO:56:ASP:C	2.57	0.43
41:DP:93:GLY:O	41:DP:123:LEU:HB2	2.19	0.43
44:DS:97:ARG:HH21	44:DS:98:VAL:HA	1.83	0.43
45:DT:30:VAL:HG21	45:DT:84:GLN:H	1.84	0.43
45:DT:113:LYS:C	45:DT:114:LEU:HD23	2.40	0.43
46:DU:47:TYR:CE2	46:DU:51:LYS:HE2	2.54	0.43
47:DV:62:LEU:HA	47:DV:99:ILE:HG12	1.99	0.43
48:DW:84:ARG:HG2	48:DW:98:LYS:HE3	2.01	0.43
49:DX:27:THR:OG1	49:DX:77:LYS:HA	2.19	0.43
49:DX:89:ILE:O	49:DX:89:ILE:CG2	2.66	0.43
50:DY:21:LYS:HD2	50:DY:22:GLY:N	2.34	0.43
50:DY:44:ILE:CG2	50:DY:45:VAL:H	2.28	0.43
50:DY:97:ARG:O	50:DY:98:VAL:C	2.57	0.43
1:AA:113:G:C4	1:AA:114:U:C5	3.06	0.43
1:AA:147:G:N2	1:AA:148:G:H1'	2.34	0.43
1:AA:343:U:H2'	1:AA:346:G:O6	2.18	0.43
1:AA:405:U:O2'	1:AA:498:U:H5'	2.19	0.43
1:AA:552:U:O2'	12:AL:86:ARG:O	2.37	0.43
1:AA:577:G:N3	1:AA:578:C:C6	2.87	0.43
1:AA:585:G:N3	1:AA:879:C:H4'	2.34	0.43
1:AA:614:A:C6	1:AA:615:C:C4	3.07	0.43
1:AA:858:G:O6	1:AA:869:G:H3'	2.18	0.43
1:AA:987:G:N2	1:AA:1219:U:C2	2.86	0.43
1:AA:999:C:H2'	1:AA:1000:U:C6	2.53	0.43
1:AA:1057:G:C6	1:AA:1058:G:C4	3.07	0.43
1:AA:1084:G:N7	1:AA:1085:U:C4	2.87	0.43
1:AA:1298:C:C4'	1:AA:1299:A:C4	2.98	0.43
1:AA:1350:A:N6	1:AA:1373:G:N2	2.67	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1502:A:H4'	1:AA:1503:A:OP2	2.19	0.43
2:AB:20:GLU:CG	2:AB:191:ASP:HB2	2.48	0.43
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.18	0.43
4:AD:122:ARG:O	4:AD:134:ASP:HB2	2.18	0.43
4:AD:158:ILE:HD13	4:AD:158:ILE:HA	1.78	0.43
8:AH:28:ALA:N	8:AH:58:TYR:HA	2.34	0.43
8:AH:107:LEU:HD23	8:AH:107:LEU:H	1.81	0.43
8:AH:121:ASP:N	8:AH:121:ASP:OD1	2.52	0.43
9:AI:29:ASN:OD1	9:AI:64:THR:HG23	2.19	0.43
10:AJ:7:LYS:HA	10:AJ:71:LEU:CD1	2.49	0.43
12:AL:41:ARG:CG	12:AL:42:THR:N	2.81	0.43
12:AL:60:LEU:HD23	12:AL:64:TYR:HB3	2.01	0.43
12:AL:83:VAL:CG1	12:AL:84:LEU:N	2.82	0.43
17:AQ:95:TYR:O	17:AQ:98:LEU:N	2.40	0.43
28:B6:30:THR:O	28:B6:31:PRO:C	2.57	0.43
30:B8:27:THR:N	41:BP:62:LEU:HD11	2.34	0.43
31:BA:117:G:C6	31:BA:119:A:C6	3.06	0.43
31:BA:136:G:H2'	31:BA:137:C:O5'	2.19	0.43
31:BA:154(A):C:OP2	31:BA:154(A):C:C2	2.71	0.43
31:BA:226:G:C2	31:BA:227:A:C6	3.06	0.43
31:BA:266:G:C6	31:BA:267:C:C4	3.07	0.43
31:BA:497:A:C6	31:BA:498:G:C5	3.06	0.43
31:BA:528:A:C4	31:BA:2042:A:C2	3.06	0.43
31:BA:836:G:C5	31:BA:837:C:C5	3.06	0.43
31:BA:846:C:C4	31:BA:930:U:C4	3.06	0.43
31:BA:859:G:O3'	31:BA:860:U:O2	2.37	0.43
31:BA:904:C:H6	31:BA:904:C:C5'	2.32	0.43
31:BA:911:A:O4'	31:BA:2264:C:H4'	2.19	0.43
31:BA:1356:G:H2'	31:BA:1357:U:O4'	2.19	0.43
31:BA:1466:G:H2'	31:BA:1466:G:N3	2.32	0.43
31:BA:1484:G:O2'	31:BA:1485:G:C4'	2.67	0.43
31:BA:1709:U:H2'	31:BA:1710:C:C6	2.54	0.43
31:BA:1833:U:C5	31:BA:1834:U:C5	3.07	0.43
31:BA:2009:G:H4'	48:BW:40:ASN:O	2.19	0.43
31:BA:2308:G:H2'	31:BA:2309:A:C8	2.54	0.43
31:BA:2436:G:C5	31:BA:2437:U:C5	3.06	0.43
31:BA:2464:C:O2'	31:BA:2465:C:O5'	2.36	0.43
31:BA:2591:C:H2'	31:BA:2592:G:C8	2.54	0.43
31:BA:2598:A:N7	31:BA:2599:G:H1'	2.33	0.43
32:BB:39:A:C2	32:BB:44:G:N3	2.87	0.43
32:BB:51:G:P	44:BS:61:ASN:HD22	2.42	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:67:PHE:HD2	34:BE:68:ALA:N	2.16	0.43
35:BF:7:TYR:HB3	35:BF:16:GLY:C	2.39	0.43
35:BF:57:VAL:HG12	35:BF:58:ALA:N	2.33	0.43
35:BF:205:ARG:O	35:BF:206:ILE:HG13	2.19	0.43
36:BG:60:LEU:CD1	36:BG:64:THR:HG21	2.48	0.43
36:BG:111:LEU:CD2	36:BG:114:ILE:HD12	2.46	0.43
36:BG:135:LEU:O	36:BG:154:GLY:HA3	2.19	0.43
40:BO:1:MET:HE3	40:BO:67:LYS:CG	2.47	0.43
40:BO:2:ILE:N	40:BO:2:ILE:HD13	2.33	0.43
40:BO:88:ASN:O	40:BO:91:LEU:HA	2.19	0.43
41:BP:14:LYS:O	41:BP:15:ARG:CB	2.67	0.43
41:BP:121:LYS:HG3	25:D3:2:PRO:HD2	2.01	0.43
42:BQ:140:ALA:CB	51:BZ:53:ILE:HG13	2.41	0.43
44:BS:53:SER:HB3	44:BS:54:LEU:H	1.59	0.43
46:BU:61:TRP:CZ3	46:BU:94:ASN:HB2	2.53	0.43
48:BW:66:GLU:O	48:BW:67:ASP:C	2.57	0.43
49:BX:60:ARG:HB2	49:BX:73:ARG:HA	2.01	0.43
49:BX:89:ILE:O	49:BX:89:ILE:CG2	2.66	0.43
50:BY:20:TYR:N	50:BY:20:TYR:CD1	2.87	0.43
50:BY:41:GLY:O	50:BY:42:VAL:C	2.57	0.43
50:BY:47:LYS:NZ	50:BY:47:LYS:CB	2.79	0.43
51:BZ:166:SER:HB2	51:BZ:167:PRO:C	2.39	0.43
1:CA:114:U:H2'	1:CA:115:G:H8	1.78	0.43
1:CA:198:G:N7	1:CA:220:G:N2	2.67	0.43
1:CA:289:G:C2	1:CA:312:C:C2	3.07	0.43
1:CA:343:U:H2'	1:CA:346:G:O6	2.18	0.43
1:CA:360:A:C2'	1:CA:361:G:H5'	2.49	0.43
1:CA:403:C:H5''	4:CD:136:PRO:HD2	2.00	0.43
1:CA:523:A:H61	12:CL:53:ARG:NH1	2.16	0.43
1:CA:652:U:C4	1:CA:752:G:N3	2.87	0.43
1:CA:709:G:O2'	1:CA:710:G:H5'	2.19	0.43
1:CA:797:C:OP1	11:CK:124:LYS:HE2	2.19	0.43
1:CA:939:G:H1'	1:CA:1375:A:H2	1.80	0.43
1:CA:1105:A:H2'	1:CA:1106:G:C8	2.53	0.43
1:CA:1164:G:C5	1:CA:1173:G:N1	2.87	0.43
1:CA:1279:A:C2	10:CJ:43:ARG:NH1	2.87	0.43
2:CB:61:LEU:CG	2:CB:68:ILE:HD11	2.49	0.43
4:CD:46:LYS:O	4:CD:48:ALA:N	2.52	0.43
4:CD:116:GLN:NE2	4:CD:157:LEU:HD21	2.34	0.43
8:CH:6:ILE:HB	8:CH:85:ARG:NH1	2.34	0.43
11:CK:66:LEU:HA	11:CK:66:LEU:HD23	1.70	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:6:THR:N	12:CL:9:GLN:HE21	2.12	0.43
12:CL:27:LEU:HD11	12:CL:64:TYR:CD1	2.54	0.43
13:CM:108:ARG:NE	13:CM:114:ARG:HG2	2.34	0.43
28:D6:26:ASN:ND2	28:D6:32:ASN:ND2	2.62	0.43
31:DA:85:G:OP1	50:DY:30:VAL:HG21	2.19	0.43
31:DA:192:C:C2'	31:DA:193:U:O5'	2.67	0.43
31:DA:280:C:H42	31:DA:360:G:H1	1.66	0.43
31:DA:455:C:H3'	31:DA:456:C:H5''	2.00	0.43
31:DA:461:C:O2'	31:DA:462:C:H5'	2.19	0.43
31:DA:635:C:C2'	31:DA:636:G:H5'	2.48	0.43
31:DA:866:A:C6	31:DA:914:C:C5	3.06	0.43
31:DA:913:U:H4'	31:DA:914:C:OP1	2.18	0.43
31:DA:1047:G:C2	31:DA:1111:A:N6	2.87	0.43
31:DA:1215:G:O2'	31:DA:1216:G:H5'	2.19	0.43
31:DA:1341:U:H2'	31:DA:1397:U:O2	2.19	0.43
31:DA:1469:A:H2'	31:DA:1470:G:C8	2.53	0.43
31:DA:2317:C:C3'	31:DA:2318:G:C5'	2.97	0.43
31:DA:2642:G:H4'	39:DN:78:TYR:OH	2.19	0.43
31:DA:2881:C:O2'	31:DA:2882:A:H5'	2.19	0.43
32:DB:18:G:C6	32:DB:19:G:C5	3.07	0.43
32:DB:82:G:O2'	32:DB:83:G:H5'	2.19	0.43
33:DD:43:ARG:HD2	33:DD:44:ASN:OD1	2.19	0.43
33:DD:44:ASN:HB2	33:DD:45:ASN:H	1.74	0.43
33:DD:166:GLN:CA	33:DD:166:GLN:HE21	2.31	0.43
36:DG:62:LEU:O	36:DG:143:GLU:HB2	2.19	0.43
38:DI:3:VAL:HA	38:DI:39:ALA:H	1.84	0.43
38:DI:139:GLN:NE2	38:DI:141:LYS:HE2	2.34	0.43
39:DN:40:PRO:HA	46:DU:64:ARG:HH22	1.82	0.43
40:DO:43:VAL:HG21	40:DO:52:VAL:CG1	2.49	0.43
41:DP:30:THR:O	41:DP:32:THR:N	2.52	0.43
41:DP:38:GLN:CG	41:DP:39:LYS:N	2.75	0.43
44:DS:31:SER:O	44:DS:32:LEU:HG	2.19	0.43
44:DS:84:GLN:NE2	44:DS:105:ALA:HB1	2.31	0.43
45:DT:41:ARG:O	45:DT:42:ILE:C	2.57	0.43
46:DU:61:TRP:O	46:DU:63:VAL:N	2.51	0.43
50:DY:26:LYS:O	50:DY:28:LYS:N	2.51	0.43
51:DZ:19:ARG:HA	51:DZ:23:LYS:O	2.17	0.43
1:AA:292:G:N2	1:AA:309:G:C4	2.87	0.42
1:AA:501:C:H6	1:AA:501:C:H3'	1.84	0.42
1:AA:515:G:C2	1:AA:516:U:C2	3.07	0.42
1:AA:544:G:N1	1:AA:545:C:C4	2.87	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:697:U:H2'	1:AA:698:G:H5'	2.01	0.42
1:AA:781:A:C5'	1:AA:782:A:OP2	2.68	0.42
1:AA:792:A:H4'	1:AA:793:U:O5'	2.18	0.42
1:AA:890:G:O2'	1:AA:906:G:O6	2.22	0.42
1:AA:992:U:C1'	1:AA:993:G:OP2	2.60	0.42
1:AA:1164:G:C5	1:AA:1173:G:N1	2.87	0.42
2:AB:42:ILE:HG21	2:AB:203:GLY:HA2	2.01	0.42
2:AB:121:LEU:O	2:AB:121:LEU:HD23	2.19	0.42
4:AD:59:ARG:HA	4:AD:59:ARG:CZ	2.49	0.42
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	2.01	0.42
12:AL:18:VAL:HG23	12:AL:19:ARG:N	2.34	0.42
13:AM:14:ARG:H	13:AM:14:ARG:HG2	1.57	0.42
13:AM:66:LEU:O	13:AM:70:LEU:HB2	2.19	0.42
18:AR:53:ARG:HH21	18:AR:60:ALA:HA	1.83	0.42
19:AS:49:ILE:H	19:AS:49:ILE:HD12	1.84	0.42
20:AT:50:GLU:H	20:AT:100:ILE:HD13	1.85	0.42
22:B0:36:ILE:HG12	22:B0:37:LEU:N	2.34	0.42
23:B1:20:ARG:CG	23:B1:20:ARG:NH2	2.81	0.42
23:B1:94:LEU:HD22	23:B1:95:LEU:C	2.40	0.42
24:B2:57:ILE:HD12	24:B2:58:ALA:O	2.19	0.42
31:BA:21:A:O2'	31:BA:22:C:H5'	2.20	0.42
31:BA:78:A:O2'	31:BA:79:G:H5'	2.19	0.42
31:BA:259:G:C2'	31:BA:260:G:H5'	2.49	0.42
31:BA:663:G:C6	31:BA:664:C:C4	3.07	0.42
31:BA:686:G:H21	31:BA:788:A:H61	1.67	0.42
31:BA:691:C:C2'	31:BA:692:C:H5'	2.48	0.42
31:BA:863:A:H2	31:BA:914:C:H41	1.66	0.42
31:BA:1027:A:C6	31:BA:1126:A:C4	3.06	0.42
31:BA:1169:G:N2	31:BA:1181:C:C2	2.87	0.42
31:BA:1319:G:C2	31:BA:1334:G:C5	3.07	0.42
31:BA:1406:U:C2'	31:BA:1407:C:O5'	2.67	0.42
31:BA:1453:U:OP1	43:BR:77:ARG:NH1	2.52	0.42
31:BA:1467:C:C2	31:BA:1526:G:N2	2.87	0.42
31:BA:1469:A:H2'	31:BA:1470:G:C8	2.52	0.42
31:BA:1490:A:H2'	31:BA:1490:A:N3	2.34	0.42
31:BA:1711:C:O2'	31:BA:1712:C:H5'	2.18	0.42
31:BA:2052:G:O4'	34:BE:142:GLY:HA3	2.19	0.42
31:BA:2400:G:H5'	31:BA:2401:U:OP2	2.19	0.42
31:BA:2443:C:H2'	31:BA:2444:G:C8	2.54	0.42
31:BA:2679:A:H4'	34:BE:165:VAL:HG11	2.01	0.42
33:BD:45:ASN:OD1	33:BD:45:ASN:C	2.57	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:124:PRO:HG2	33:BD:129:ASN:ND2	2.34	0.42
34:BE:105:THR:HG21	34:BE:164:ARG:CZ	2.49	0.42
34:BE:129:HIS:O	34:BE:130:GLY:C	2.56	0.42
36:BG:11:TYR:CG	36:BG:100:TRP:CH2	3.04	0.42
37:BH:52:VAL:CG1	37:BH:52:VAL:O	2.67	0.42
38:BI:3:VAL:HG12	38:BI:38:LEU:CA	2.41	0.42
38:BI:25:TYR:HD1	38:BI:30:LEU:HD11	1.84	0.42
39:BN:16:ILE:HG23	39:BN:54:VAL:HG22	2.00	0.42
40:BO:22:ILE:HA	40:BO:22:ILE:HD12	1.49	0.42
40:BO:44:LYS:HD3	40:BO:44:LYS:HA	1.74	0.42
41:BP:16:ARG:CG	41:BP:18:ARG:H	2.24	0.42
44:BS:77:ALA:O	44:BS:78:LEU:C	2.57	0.42
45:BT:28:VAL:O	45:BT:29:ARG:HD3	2.19	0.42
46:BU:36:ARG:HG3	46:BU:36:ARG:HH11	1.84	0.42
47:BV:61:VAL:C	47:BV:62:LEU:HD23	2.37	0.42
48:BW:86:LEU:C	48:BW:86:LEU:CD1	2.87	0.42
49:BX:33:LYS:O	49:BX:34:ALA:C	2.56	0.42
50:BY:75:ILE:HD13	50:BY:76:CYS:H	1.81	0.42
51:BZ:166:SER:OG	51:BZ:168:GLU:N	2.51	0.42
1:CA:129:U:H3	1:CA:232:G:H1	1.65	0.42
1:CA:232:G:H2'	1:CA:233:C:O4'	2.19	0.42
1:CA:235:C:H2'	1:CA:236:G:H8	1.84	0.42
1:CA:273:A:C6	1:CA:274:A:N7	2.86	0.42
1:CA:565:U:C4	1:CA:566:G:C5	3.07	0.42
1:CA:1067:A:N3	1:CA:1068:G:N9	2.67	0.42
1:CA:1137:C:H4'	1:CA:1138:G:N1	2.34	0.42
2:CB:179:LYS:HA	8:CH:72:PRO:HG3	2.01	0.42
4:CD:161:ASN:O	4:CD:165:MET:HB2	2.19	0.42
5:CE:15:ARG:HG3	5:CE:26:PHE:HB3	2.00	0.42
5:CE:78:HIS:CE1	5:CE:143:ARG:H	2.37	0.42
6:CF:17:SER:O	6:CF:21:LEU:HD22	2.19	0.42
6:CF:79:LEU:O	6:CF:85:VAL:HG11	2.18	0.42
17:CQ:31:LEU:HG	17:CQ:32:TYR:CD2	2.54	0.42
17:CQ:56:VAL:O	17:CQ:76:LEU:HD12	2.19	0.42
19:CS:48:THR:HG22	19:CS:61:TYR:CD1	2.54	0.42
30:D8:26:LYS:HE2	30:D8:47:LYS:HG2	2.00	0.42
31:DA:48:G:O2'	31:DA:118:A:N1	2.51	0.42
31:DA:109:G:C5	31:DA:110:G:C8	3.07	0.42
31:DA:390:A:C6	41:DP:71:VAL:HG21	2.53	0.42
31:DA:493:G:H2'	31:DA:494:G:O4'	2.19	0.42
31:DA:503:A:C6	31:DA:505:A:C6	3.07	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:620:G:H8	31:DA:622:G:O6	2.01	0.42
31:DA:814:C:C2'	31:DA:815:C:H5'	2.47	0.42
31:DA:893:C:H6	31:DA:894:C:C6	2.37	0.42
31:DA:1002:G:H2'	31:DA:1003:G:O4'	2.18	0.42
31:DA:1281:G:C2	31:DA:1290:C:N3	2.87	0.42
31:DA:1357:U:H2'	31:DA:1358:G:O4'	2.19	0.42
31:DA:1385:G:H4'	31:DA:1386:C:OP1	2.18	0.42
31:DA:1652:A:C3'	31:DA:1653:G:H5'	2.49	0.42
31:DA:2014:A:H2'	31:DA:2015:A:C4	2.54	0.42
31:DA:2077:A:H1'	31:DA:2435:A:O4'	2.19	0.42
31:DA:2100:G:H2'	31:DA:2100:G:N3	2.33	0.42
31:DA:2303:G:O3'	36:DG:124:SER:HA	2.19	0.42
31:DA:2334:G:C4	44:DS:15:ARG:NH1	2.87	0.42
31:DA:2531:A:H2'	31:DA:2531:A:N3	2.34	0.42
31:DA:2609:U:H4'	31:DA:2609:U:OP1	2.18	0.42
31:DA:2623:G:H2'	31:DA:2624:G:C8	2.54	0.42
31:DA:2639:A:H2'	31:DA:2640:G:H5'	2.00	0.42
31:DA:2674:G:H5''	40:DO:26:LYS:CE	2.49	0.42
31:DA:2694:G:C6	31:DA:2695:C:C4	3.07	0.42
34:DE:73:GLU:HA	34:DE:74:PRO:HD2	1.87	0.42
35:DF:101:LEU:O	35:DF:106:ARG:NH1	2.42	0.42
38:DI:53:ALA:HA	38:DI:56:LYS:HG2	2.01	0.42
38:DI:84:GLY:O	38:DI:85:GLU:HB2	2.19	0.42
38:DI:110:ASP:OD2	38:DI:113:ARG:HG3	2.18	0.42
38:DI:113:ARG:CB	38:DI:130:TYR:CZ	3.02	0.42
38:DI:144:VAL:O	38:DI:145:VAL:CB	2.67	0.42
47:DV:4:ILE:HG13	47:DV:40:LEU:HD11	2.01	0.42
48:DW:30:GLU:O	48:DW:31:GLU:C	2.56	0.42
49:DX:26:TYR:OH	49:DX:89:ILE:HB	2.19	0.42
49:DX:52:VAL:HG23	49:DX:82:GLN:HA	2.01	0.42
51:DZ:48:PHE:O	51:DZ:49:ARG:C	2.56	0.42
51:DZ:95:PRO:HA	51:DZ:128:VAL:O	2.19	0.42
1:AA:124:G:H1	1:AA:237:C:N4	2.17	0.42
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.18	0.42
1:AA:283:C:H2'	1:AA:284:G:O4'	2.19	0.42
1:AA:607:A:H2'	1:AA:608:A:H8	1.84	0.42
1:AA:623:C:H2'	1:AA:624:C:H5'	2.01	0.42
1:AA:966:G:H5''	1:AA:969:A:N7	2.34	0.42
1:AA:1159:U:C6	1:AA:1182:G:C2	3.07	0.42
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.50	0.42
1:AA:1301:U:H3'	1:AA:1302:U:C5'	2.45	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1392:G:H2'	1:AA:1393:U:C5'	2.49	0.42
1:AA:1470:G:H2'	1:AA:1471:G:H5'	2.01	0.42
3:AC:112:SER:O	3:AC:116:VAL:HG23	2.18	0.42
8:AH:1:MET:HE2	8:AH:1:MET:N	2.06	0.42
8:AH:24:THR:O	8:AH:24:THR:HG22	2.19	0.42
11:AK:30:VAL:HG21	11:AK:68:ALA:HB2	2.01	0.42
16:AP:75:ARG:HA	16:AP:80:PHE:CD1	2.54	0.42
18:AR:39:VAL:HG12	18:AR:40:LEU:HD23	2.01	0.42
18:AR:58:LEU:HD22	18:AR:63:GLN:OE1	2.19	0.42
19:AS:48:THR:HG22	19:AS:61:TYR:CD1	2.54	0.42
22:B0:29:GLN:HG2	31:BA:923:C:H4'	2.01	0.42
22:B0:34:GLY:O	22:B0:35:ASN:C	2.56	0.42
23:B1:92:LYS:C	23:B1:94:LEU:H	2.21	0.42
30:B8:13:ARG:HD2	41:BP:61:ARG:HD3	2.01	0.42
30:B8:41:ILE:O	30:B8:42:ARG:C	2.57	0.42
31:BA:71:A:H4'	31:BA:72:U:H5''	2.01	0.42
31:BA:225:A:O2'	31:BA:257:A:H4'	2.19	0.42
31:BA:272(B):G:C2'	31:BA:272(C):G:O5'	2.67	0.42
31:BA:498:G:C6	31:BA:499:U:C4	3.08	0.42
31:BA:579:G:C4	31:BA:580:C:C5	3.06	0.42
31:BA:646:A:H5'	31:BA:646:A:N3	2.34	0.42
31:BA:842:G:C2	31:BA:937:U:C2	3.07	0.42
31:BA:867:C:O2	31:BA:913:U:H5'	2.19	0.42
31:BA:893:C:H6	31:BA:894:C:C6	2.37	0.42
31:BA:901:A:N3	31:BA:901:A:H2'	2.34	0.42
31:BA:1001:A:H2'	31:BA:1002:G:O4'	2.18	0.42
31:BA:1115:G:C2'	31:BA:1116:C:C6	2.91	0.42
31:BA:1354:A:C8	31:BA:1355:G:C8	3.07	0.42
31:BA:1449:A:H5'	31:BA:1450:G:OP2	2.18	0.42
31:BA:1690:A:H5''	31:BA:1691:C:OP2	2.18	0.42
31:BA:1825:A:O4'	33:BD:254:THR:HG21	2.19	0.42
31:BA:2007:C:C2	31:BA:2008:C:C5	3.07	0.42
31:BA:2400:G:C6	31:BA:2401:U:C4	3.07	0.42
31:BA:2486:G:C2'	31:BA:2487:G:O5'	2.65	0.42
31:BA:2823:A:OP1	34:BE:113:PHE:HB2	2.19	0.42
32:BB:111:G:O2'	32:BB:112:U:H5'	2.19	0.42
33:BD:260:ARG:HH22	33:BD:266:SER:CB	2.32	0.42
34:BE:29:GLY:H	34:BE:51:PHE:HE2	1.65	0.42
36:BG:15:VAL:HG22	36:BG:175:LEU:O	2.19	0.42
36:BG:16:ARG:HA	36:BG:19:LEU:HB2	2.01	0.42
36:BG:34:LEU:HD22	36:BG:35:GLU:H	1.85	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:91:GLY:HA2	37:BH:160:LYS:NZ	2.34	0.42
37:BH:92:ILE:C	37:BH:94:TYR:N	2.72	0.42
38:BI:18:VAL:HG12	38:BI:18:VAL:O	2.17	0.42
38:BI:96:ASP:C	38:BI:98:ALA:H	2.21	0.42
41:BP:59:LEU:CA	41:BP:61:ARG:HD2	2.48	0.42
42:BQ:35:VAL:HA	42:BQ:101:ARG:O	2.19	0.42
42:BQ:75:THR:HA	42:BQ:89:ASN:H	1.84	0.42
43:BR:12:ARG:NE	43:BR:20:LEU:HD22	2.34	0.42
44:BS:58:LEU:HD21	44:BS:68:GLN:OE1	2.19	0.42
44:BS:95:HIS:C	44:BS:97:ARG:N	2.72	0.42
46:BU:88:ILE:CA	46:BU:90:VAL:HG23	2.48	0.42
48:BW:64:MET:O	48:BW:65:LEU:HB3	2.19	0.42
49:BX:35:THR:O	49:BX:39:ILE:CG2	2.67	0.42
1:CA:70:G:H2'	1:CA:71:C:H6	1.83	0.42
1:CA:165:C:H2'	1:CA:166:G:C8	2.54	0.42
1:CA:188:C:H6	1:CA:188:C:H3'	1.84	0.42
1:CA:230:G:H2'	1:CA:231:G:O4'	2.18	0.42
1:CA:294:U:C2	1:CA:295:C:C5	3.07	0.42
1:CA:321:A:C2	1:CA:322:C:C2	3.07	0.42
1:CA:457:C:H42	1:CA:474:G:H1	1.67	0.42
1:CA:484:G:C1'	1:CA:485:G:O5'	2.68	0.42
1:CA:505:G:C5	1:CA:535:A:C2	3.06	0.42
1:CA:607:A:H2'	1:CA:608:A:O4'	2.19	0.42
1:CA:675:A:N1	1:CA:716:A:C2	2.87	0.42
1:CA:746:A:C8	1:CA:747:C:C5	3.07	0.42
1:CA:802:A:H2'	1:CA:803:G:O4'	2.18	0.42
1:CA:921:U:O2'	1:CA:922:G:C2'	2.67	0.42
1:CA:1074:G:C2	1:CA:1075:C:C2	3.07	0.42
1:CA:1202:G:C2'	1:CA:1203:C:H5'	2.49	0.42
1:CA:1355:G:O2'	1:CA:1356:G:H5'	2.19	0.42
3:CC:155:GLY:O	3:CC:156:ARG:CB	2.66	0.42
3:CC:157:ILE:HD11	3:CC:166:GLU:HB2	2.00	0.42
4:CD:33:MET:HE1	4:CD:37:PRO:HA	1.95	0.42
6:CF:3:ARG:HH12	6:CF:66:GLU:HB2	1.84	0.42
6:CF:81:ILE:O	6:CF:83:ASP:N	2.52	0.42
8:CH:120:THR:OG1	8:CH:123:GLU:HG3	2.19	0.42
8:CH:126:LYS:C	8:CH:128:GLY:N	2.73	0.42
10:CJ:30:SER:CB	10:CJ:81:THR:HG22	2.49	0.42
11:CK:65:ALA:HB3	11:CK:97:ALA:CB	2.49	0.42
15:CO:11:VAL:HG21	15:CO:34:LEU:HD22	2.01	0.42
16:CP:8:ARG:HA	16:CP:17:TYR:HA	2.01	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.34	0.42
23:D1:41:ARG:NH2	31:DA:205:G:H1	2.18	0.42
24:D2:12:GLU:C	24:D2:14:ARG:HH21	2.23	0.42
24:D2:47:ASN:C	24:D2:49:LYS:H	2.22	0.42
24:D2:49:LYS:O	24:D2:50:ILE:C	2.57	0.42
24:D2:54:LYS:C	24:D2:56:GLN:H	2.17	0.42
25:D3:17:LYS:HG2	31:DA:969:U:OP1	2.19	0.42
30:D8:4:MET:HE2	30:D8:4:MET:HB2	1.38	0.42
31:DA:24:G:H2'	31:DA:25:U:O4'	2.18	0.42
31:DA:71:A:H4'	31:DA:72:U:C5'	2.48	0.42
31:DA:154:G:C2	31:DA:154(A):C:N4	2.86	0.42
31:DA:241:A:H5'	31:DA:243:U:O4'	2.19	0.42
31:DA:271(H):G:O2'	31:DA:271(I):G:OP2	2.32	0.42
31:DA:271(H):G:C6	31:DA:271(Q):G:N1	2.87	0.42
31:DA:271(K):U:O2	38:DI:50:ARG:NH1	2.53	0.42
31:DA:587:C:N4	31:DA:671:C:C2	2.87	0.42
31:DA:860:U:C2'	31:DA:861:A:H5'	2.49	0.42
31:DA:941:A:H2'	31:DA:942:G:C8	2.54	0.42
31:DA:945:A:C5	31:DA:2448:A:N3	2.87	0.42
31:DA:1296:G:C2	31:DA:1645:G:C4	3.08	0.42
31:DA:1309:G:H2'	31:DA:1310:G:O4'	2.19	0.42
31:DA:1343:G:H1	31:DA:1404:C:N4	2.16	0.42
31:DA:1442:G:N2	31:DA:1443:G:C4	2.87	0.42
31:DA:1474:C:H3'	31:DA:1475:G:H8	1.84	0.42
31:DA:1480:G:C6	31:DA:1481:U:N3	2.87	0.42
31:DA:1655:A:H1'	34:DE:113:PHE:CD2	2.54	0.42
31:DA:1688:U:H1'	31:DA:1701:A:N6	2.32	0.42
31:DA:1696:G:C2'	31:DA:1697:G:H5'	2.49	0.42
31:DA:1704:G:C2'	31:DA:1705:G:H5'	2.50	0.42
31:DA:1968:G:O3'	31:DA:1969:A:C4'	2.67	0.42
31:DA:2034:U:H6	31:DA:2034:U:C5'	2.32	0.42
31:DA:2080:G:C2	31:DA:2241:A:C4	3.06	0.42
31:DA:2191:G:HO2'	31:DA:2192:G:P	2.41	0.42
31:DA:2282:G:H4'	31:DA:2389:G:O2'	2.19	0.42
31:DA:2536:G:H2'	31:DA:2537:U:O4'	2.19	0.42
32:DB:21:G:O6	32:DB:63:G:C2	2.72	0.42
32:DB:95:C:C2	32:DB:96:U:C6	3.07	0.42
34:DE:52:LEU:O	34:DE:53:PRO:O	2.38	0.42
35:DF:158:THR:CG2	35:DF:160:ASN:HB3	2.48	0.42
36:DG:137:GLU:HB2	36:DG:140:ILE:HD13	2.00	0.42
36:DG:139:LEU:HD23	36:DG:149:VAL:HG21	2.00	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:41:MET:HG3	37:DH:55:PRO:HD3	2.00	0.42
37:DH:71:LEU:HD12	37:DH:71:LEU:HA	1.90	0.42
39:DN:28:THR:CA	39:DN:106:MET:CE	2.95	0.42
39:DN:87:LEU:O	39:DN:88:GLU:C	2.57	0.42
40:DO:77:ILE:O	40:DO:77:ILE:HG23	2.19	0.42
40:DO:86:ILE:HD12	40:DO:86:ILE:N	2.35	0.42
41:DP:84:ASN:HD22	41:DP:84:ASN:H	1.67	0.42
44:DS:67:ARG:CD	44:DS:101:LEU:HD23	2.48	0.42
45:DT:35:LYS:HD2	45:DT:41:ARG:HG3	2.01	0.42
45:DT:115:ARG:O	45:DT:116:ALA:HB2	2.19	0.42
47:DV:1:MET:H1	47:DV:44:LYS:HD2	1.84	0.42
1:AA:32:A:C2	1:AA:33:A:C5	3.07	0.42
1:AA:250:A:C1'	1:AA:251:G:OP2	2.66	0.42
1:AA:302:G:C6	1:AA:303:A:C5	3.07	0.42
1:AA:336:C:H2'	1:AA:337:C:C6	2.54	0.42
1:AA:552:U:H2'	1:AA:553:A:C5'	2.48	0.42
1:AA:1058:G:C5	1:AA:1059:C:C4	3.07	0.42
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.55	0.42
1:AA:1316:G:O3'	14:AN:18:VAL:HG22	2.19	0.42
1:AA:1496:C:H2'	1:AA:1497:G:C1'	2.49	0.42
1:AA:1523:G:OP1	11:AK:123:LYS:HD3	2.19	0.42
3:AC:182:ILE:CG1	3:AC:203:PHE:HD1	2.32	0.42
4:AD:30:LYS:C	4:AD:32:ALA:N	2.67	0.42
7:AG:108:ALA:O	7:AG:111:ARG:HB2	2.19	0.42
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.36	0.42
12:AL:114:LYS:HB3	12:AL:114:LYS:HE2	1.79	0.42
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.84	0.42
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.40	0.42
25:B3:39:ASP:O	25:B3:39:ASP:CG	2.58	0.42
30:B8:2:PRO:O	30:B8:3:LYS:C	2.58	0.42
31:BA:152:G:H2'	31:BA:153:C:C6	2.54	0.42
31:BA:321:G:H5'	35:BF:134:GLY:O	2.18	0.42
31:BA:338:G:H2'	31:BA:339:U:C6	2.54	0.42
31:BA:662:G:O2'	31:BA:663:G:H5'	2.19	0.42
31:BA:698:C:O2'	31:BA:734:A:N6	2.52	0.42
31:BA:764:A:C5	31:BA:781:A:C2	3.07	0.42
31:BA:947:G:N3	31:BA:984:A:H2	2.18	0.42
31:BA:1006:C:N3	31:BA:1138:G:C2	2.87	0.42
31:BA:1021:A:N6	31:BA:1141:U:H3	2.15	0.42
31:BA:1268:A:H2'	31:BA:1269:A:O4'	2.20	0.42
31:BA:1308:A:N6	31:BA:1309:G:C2	2.87	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1323:U:H2'	31:BA:1324:G:H5'	2.01	0.42
31:BA:1348:G:C6	31:BA:1349:A:N1	2.87	0.42
31:BA:1367:A:N7	31:BA:1368:G:H1'	2.34	0.42
31:BA:1384:A:N3	31:BA:1405:U:H1'	2.34	0.42
31:BA:1636:C:O2'	31:BA:1760:A:H1'	2.19	0.42
31:BA:1764:G:C2	31:BA:1765:C:C2	3.07	0.42
31:BA:1791:A:H4'	33:BD:206:LEU:HB2	2.01	0.42
31:BA:1859:A:N6	31:BA:1883:G:O2'	2.52	0.42
31:BA:1926:U:C2	31:BA:1929:G:C2	3.07	0.42
31:BA:1930:G:H22	31:BA:1969:A:H5''	1.83	0.42
31:BA:2427:C:H5''	31:BA:2428:G:OP1	2.19	0.42
31:BA:2494:G:H2'	31:BA:2495:G:H8	1.84	0.42
31:BA:2563:U:O2	31:BA:2565:A:C8	2.72	0.42
31:BA:2620:C:H1'	34:BE:156:MET:HB2	2.01	0.42
31:BA:2665:A:H2'	31:BA:2666:C:O4'	2.19	0.42
31:BA:2811:G:C6	31:BA:2891:G:N2	2.87	0.42
31:BA:2813:A:C6	31:BA:2814:C:C4	3.07	0.42
31:BA:2849:U:H6	31:BA:2849:U:H2'	1.54	0.42
31:BA:2892:A:N7	31:BA:2893:G:N9	2.68	0.42
32:BB:57:A:N6	36:BG:29:TRP:NE1	2.66	0.42
34:BE:95:ILE:HB	34:BE:96:PHE:HD1	1.85	0.42
36:BG:51:ARG:HB3	36:BG:53:LEU:HD23	2.01	0.42
37:BH:41:MET:HG2	37:BH:55:PRO:HD3	2.00	0.42
40:BO:60:ALA:HB2	40:BO:86:ILE:HA	2.01	0.42
40:BO:65:THR:HA	40:BO:82:ASN:HA	2.02	0.42
40:BO:108:GLU:H	40:BO:108:GLU:HG2	1.46	0.42
43:BR:48:VAL:O	43:BR:49:ASP:C	2.57	0.42
46:BU:8:VAL:HG13	46:BU:12:ARG:HD2	2.01	0.42
47:BV:43:GLU:CA	47:BV:48:GLY:CA	2.97	0.42
47:BV:73:SER:O	47:BV:74:LYS:CB	2.64	0.42
47:BV:93:GLU:HG2	47:BV:94:LEU:H	1.85	0.42
50:BY:31:LEU:HA	50:BY:31:LEU:HD22	1.50	0.42
50:BY:47:LYS:HA	50:BY:60:PHE:CZ	2.54	0.42
1:CA:558:G:OP1	1:CA:560:U:OP1	2.36	0.42
1:CA:571:U:O2	1:CA:918:A:H5'	2.19	0.42
1:CA:673:G:C4	1:CA:734:G:C2	3.07	0.42
1:CA:1127:G:H1'	1:CA:1148:U:N3	2.34	0.42
3:CC:86:VAL:O	3:CC:90:GLU:HG2	2.18	0.42
4:CD:116:GLN:O	4:CD:120:LEU:HG	2.18	0.42
5:CE:147:ASP:HA	5:CE:150:ARG:HB3	2.00	0.42
7:CG:46:ALA:HB1	7:CG:121:ALA:HB2	2.02	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:93:LEU:O	12:CL:94:PRO:C	2.57	0.42
13:CM:68:GLY:N	13:CM:71:ARG:HB3	2.34	0.42
14:CN:13:THR:N	14:CN:14:PRO:CD	2.82	0.42
15:CO:54:ARG:HG2	15:CO:58:MET:HE2	2.00	0.42
18:CR:59:SER:HB3	18:CR:62:GLU:OE2	2.19	0.42
20:CT:16:HIS:O	20:CT:19:SER:HB3	2.19	0.42
20:CT:31:SER:HA	20:CT:34:LYS:CD	2.50	0.42
22:D0:49:LYS:HG3	22:D0:80:HIS:ND1	2.34	0.42
23:D1:37:ILE:CG2	31:DA:2080:G:O5'	2.67	0.42
23:D1:66:HIS:CE1	31:DA:372:G:H5'	2.54	0.42
24:D2:29:LYS:O	24:D2:32:LEU:HB3	2.19	0.42
29:D7:14:LYS:HA	29:D7:14:LYS:HD2	1.79	0.42
31:DA:114:U:H3'	31:DA:115:C:C6	2.53	0.42
31:DA:171:G:H2'	31:DA:172:C:C1'	2.49	0.42
31:DA:251:A:H5'	41:DP:51:PHE:HZ	1.84	0.42
31:DA:309:G:N3	31:DA:329:G:O2'	2.50	0.42
31:DA:422:A:H2'	31:DA:423:A:O4'	2.19	0.42
31:DA:478:A:C2	31:DA:480:A:C4	3.08	0.42
31:DA:584:C:N4	31:DA:585:G:C6	2.87	0.42
31:DA:601:C:H2'	31:DA:602:G:O4'	2.19	0.42
31:DA:856:C:C2'	31:DA:857:C:H6	2.31	0.42
31:DA:1034:G:H2'	31:DA:1035:U:O4'	2.20	0.42
31:DA:1112:G:N2	31:DA:1113:U:O2	2.51	0.42
31:DA:1116:C:C2'	31:DA:1117:G:H5'	2.48	0.42
31:DA:1174:A:OP1	31:DA:1175:U:OP1	2.37	0.42
31:DA:1245:G:C5'	41:DP:16:ARG:HH21	2.30	0.42
31:DA:1282:U:H2'	31:DA:1283:G:O4'	2.19	0.42
31:DA:1934:C:H2'	31:DA:1935:G:O4'	2.19	0.42
31:DA:2387:U:C5'	31:DA:2388:A:OP2	2.64	0.42
31:DA:2520:C:H2'	31:DA:2521:C:H6	1.84	0.42
31:DA:2586:C:O5'	31:DA:2586:C:H6	2.02	0.42
31:DA:2686:G:H3'	31:DA:2687:U:H6	1.84	0.42
31:DA:2713:A:C3'	31:DA:2714:G:C5'	2.97	0.42
31:DA:2820:A:H2'	31:DA:2820:A:N3	2.34	0.42
55:DA:3320:TEL:H7	55:DA:3320:TEL:H233	1.68	0.42
33:DD:48:ARG:O	33:DD:50:THR:HG23	2.19	0.42
34:DE:104:VAL:O	34:DE:166:THR:HA	2.20	0.42
37:DH:89:ILE:CG1	37:DH:90:LYS:N	2.82	0.42
38:DI:2:LYS:O	38:DI:39:ALA:N	2.51	0.42
40:DO:73:ASP:OD1	45:DT:32:TYR:CE1	2.72	0.42
41:DP:10:PRO:O	41:DP:11:GLY:O	2.38	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:22:GLY:HA2	41:DP:23:PRO:HD3	1.88	0.42
41:DP:84:ASN:HB3	41:DP:86:LYS:HB3	2.00	0.42
43:DR:99:LYS:NZ	43:DR:99:LYS:CB	2.82	0.42
45:DT:31:SER:HB2	45:DT:33:LYS:HZ1	1.84	0.42
46:DU:26:GLY:O	46:DU:30:LYS:HG2	2.19	0.42
46:DU:88:ILE:HD12	46:DU:88:ILE:N	2.34	0.42
48:DW:74:ALA:O	48:DW:75:TYR:CB	2.68	0.42
1:AA:322:C:O2	1:AA:332:G:N2	2.51	0.42
1:AA:346:G:H5''	45:BT:41:ARG:NE	2.34	0.42
1:AA:407:G:N1	1:AA:408:A:C5	2.88	0.42
1:AA:523:A:H61	12:AL:53:ARG:NH1	2.18	0.42
1:AA:663:A:H2'	1:AA:664:G:H5'	2.00	0.42
1:AA:718:G:H1'	11:AK:116:HIS:HA	2.01	0.42
1:AA:728:A:H2'	1:AA:729:A:H8	1.85	0.42
1:AA:758:G:H8	1:AA:758:G:O5'	2.02	0.42
1:AA:812:C:OP1	1:AA:903:G:H1'	2.20	0.42
1:AA:832:C:N3	1:AA:855:G:C2	2.88	0.42
1:AA:922:G:C6	1:AA:923:A:C5	3.07	0.42
1:AA:922:G:N1	1:AA:923:A:C2	2.87	0.42
1:AA:1103:C:H5''	2:AB:98:LEU:HD22	2.01	0.42
1:AA:1314:C:N4	19:AS:4:SER:N	2.67	0.42
1:AA:1373:G:H8	1:AA:1373:G:O5'	2.02	0.42
1:AA:1375:A:H4'	7:AG:29:LYS:HD3	2.01	0.42
2:AB:8:LYS:NZ	2:AB:217:ARG:HD2	2.35	0.42
2:AB:11:LEU:O	2:AB:16:HIS:ND1	2.53	0.42
2:AB:63:MET:CB	2:AB:225:ALA:HB1	2.49	0.42
2:AB:95:GLN:HG3	2:AB:147:LYS:O	2.20	0.42
7:AG:12:LEU:HD13	7:AG:24:THR:OG1	2.20	0.42
9:AI:43:ALA:HA	9:AI:74:ILE:HD13	2.01	0.42
11:AK:66:LEU:C	11:AK:68:ALA:N	2.71	0.42
11:AK:121:PRO:O	11:AK:126:ARG:HB2	2.19	0.42
13:AM:29:ARG:HD3	13:AM:64:TRP:CH2	2.54	0.42
16:AP:27:LYS:HD2	16:AP:27:LYS:H	1.84	0.42
16:AP:28:ARG:O	16:AP:30:GLY:N	2.49	0.42
17:AQ:5:VAL:O	17:AQ:6:LEU:HD23	2.19	0.42
17:AQ:31:LEU:HG	17:AQ:32:TYR:CD2	2.55	0.42
18:AR:41:LYS:C	18:AR:43:PHE:H	2.23	0.42
20:AT:30:LYS:HG3	20:AT:34:LYS:HE3	2.01	0.42
24:B2:41:ILE:HG12	31:BA:94(A):G:N2	2.34	0.42
31:BA:52:A:OP2	31:BA:117:G:N1	2.39	0.42
31:BA:271(W):G:C2'	31:BA:271(X):G:H5'	2.49	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:456:C:C6	49:BX:66:LEU:HD21	2.53	0.42
31:BA:588:U:O2'	31:BA:589:C:H5'	2.19	0.42
31:BA:648:G:C4'	31:BA:2351:G:H5''	2.48	0.42
31:BA:667:U:C3'	31:BA:668:G:H5'	2.49	0.42
31:BA:725:G:C6	31:BA:726:G:C6	3.07	0.42
31:BA:786:C:O2'	31:BA:787:U:H5'	2.19	0.42
31:BA:815:C:H2'	31:BA:816:C:C6	2.54	0.42
31:BA:1042:G:C4	31:BA:1114:G:N2	2.87	0.42
31:BA:1157:G:C4	31:BA:1158:C:C5	3.08	0.42
31:BA:1257:C:H5'	35:BF:75:HIS:CE1	2.55	0.42
31:BA:1257:C:H5'	35:BF:75:HIS:NE2	2.34	0.42
31:BA:1278:A:H5''	43:BR:36:THR:HG23	2.02	0.42
31:BA:1288:U:C2	31:BA:1327:C:C2	3.06	0.42
31:BA:1322:A:N6	31:BA:1331:A:H61	2.17	0.42
31:BA:1331:A:O2'	31:BA:1332:G:C8	2.56	0.42
31:BA:1475:G:H5'	31:BA:1476:C:OP2	2.20	0.42
31:BA:1563:G:O2'	31:BA:1564:C:H5'	2.19	0.42
31:BA:1649:G:N1	31:BA:2009:G:C6	2.88	0.42
31:BA:1811:G:C4	31:BA:1812:A:C8	3.07	0.42
31:BA:1893:C:C2'	31:BA:1894:C:H5'	2.49	0.42
31:BA:2437:U:H2'	31:BA:2438:U:C6	2.53	0.42
31:BA:2612:C:H2'	31:BA:2613:U:C5'	2.48	0.42
31:BA:2631:G:N3	31:BA:2810:A:C2	2.87	0.42
31:BA:2642:G:H2'	31:BA:2643:G:O5'	2.19	0.42
31:BA:2722:G:H2'	31:BA:2723:C:C6	2.54	0.42
31:BA:2882:A:C2'	31:BA:2883:A:O5'	2.67	0.42
32:BB:76:G:H2'	32:BB:77:U:O4'	2.19	0.42
32:BB:86:G:H2'	32:BB:87:G:O4'	2.19	0.42
33:BD:242:ARG:HD2	33:BD:242:ARG:N	2.33	0.42
38:BI:35:LEU:N	38:BI:35:LEU:HD23	2.34	0.42
38:BI:52:ARG:HA	38:BI:55:ALA:CB	2.32	0.42
38:BI:77:LEU:HA	38:BI:77:LEU:HD23	1.56	0.42
39:BN:19:GLU:O	39:BN:59:LYS:O	2.37	0.42
39:BN:30:ILE:HG21	39:BN:120:LEU:CD2	2.49	0.42
39:BN:120:LEU:HD11	39:BN:122:VAL:CG2	2.28	0.42
43:BR:3:HIS:O	43:BR:4:LEU:HB3	2.19	0.42
44:BS:46:VAL:CG1	44:BS:47:THR:H	2.33	0.42
46:BU:18:LEU:O	46:BU:19:LYS:C	2.57	0.42
47:BV:46:VAL:O	47:BV:47:VAL:HB	2.19	0.42
47:BV:83:ARG:CG	47:BV:83:ARG:NH1	2.82	0.42
48:BW:89:ALA:O	48:BW:92:ARG:HB2	2.20	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BX:60:ARG:HD3	49:BX:60:ARG:N	2.28	0.42
49:BX:72:LYS:O	49:BX:73:ARG:CB	2.68	0.42
49:BX:72:LYS:O	49:BX:73:ARG:HB3	2.19	0.42
1:CA:109:A:H4'	1:CA:110:C:OP2	2.20	0.42
1:CA:411:A:C2'	1:CA:412:A:H4'	2.42	0.42
1:CA:502:G:C2	1:CA:503:C:C2	3.07	0.42
1:CA:939:G:H2'	1:CA:940:C:C6	2.54	0.42
1:CA:1157:A:H4'	1:CA:1158:C:C5'	2.48	0.42
1:CA:1190:G:H3'	3:CC:3:ASN:HD21	1.83	0.42
1:CA:1372:U:H2'	1:CA:1373:G:O4'	2.19	0.42
1:CA:1372:U:OP1	9:CI:72:GLY:N	2.52	0.42
1:CA:1523:G:C5	1:CA:1524:C:C5	3.07	0.42
3:CC:100:ALA:O	3:CC:101:LEU:HB2	2.18	0.42
4:CD:159:ARG:O	4:CD:163:GLU:N	2.53	0.42
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.42	0.42
8:CH:108:GLY:HA2	8:CH:138:TRP:HB3	2.00	0.42
15:CO:26:GLU:OE2	15:CO:77:ARG:NH1	2.53	0.42
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	2.01	0.42
24:D2:46:GLN:O	24:D2:48:HIS:N	2.52	0.42
27:D5:22:HIS:NE2	31:DA:2046:G:H1'	2.34	0.42
31:DA:38:A:C5	31:DA:39:C:C4	3.08	0.42
31:DA:221:A:N1	31:DA:265:A:O2'	2.45	0.42
31:DA:253:C:H2'	31:DA:254:G:O4'	2.19	0.42
31:DA:541:C:O5'	31:DA:541:C:H6	2.02	0.42
31:DA:815:C:H2'	31:DA:816:C:C6	2.54	0.42
31:DA:859:G:O3'	31:DA:860:U:O2	2.37	0.42
31:DA:954:G:C6	31:DA:955:C:C4	3.08	0.42
31:DA:1157:G:C4	31:DA:1158:C:C5	3.08	0.42
31:DA:1342:A:HO2'	31:DA:1344:G:P	2.42	0.42
31:DA:1388:G:H4'	31:DA:1525:G:O2'	2.19	0.42
31:DA:1528:A:C8	31:DA:1528(A):A:C4	3.07	0.42
31:DA:1528:A:H8	31:DA:1528(A):A:C4	2.37	0.42
31:DA:1635:G:O2'	31:DA:1636:C:H5'	2.19	0.42
31:DA:1741:A:H2'	31:DA:1742:G:C4	2.54	0.42
31:DA:2202:C:O2	33:DD:151:LYS:NZ	2.43	0.42
31:DA:2315:G:C2	31:DA:2316:C:N3	2.88	0.42
31:DA:2321:G:H2'	31:DA:2321:G:N3	2.34	0.42
31:DA:2377:A:H4'	44:DS:107:GLU:HB3	2.02	0.42
31:DA:2484:G:C2	31:DA:2485:G:C8	3.07	0.42
31:DA:2555:U:C5	31:DA:2556:C:C2	3.07	0.42
31:DA:2584:U:H2'	31:DA:2585:U:H5'	1.99	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2617:C:H2'	31:DA:2618:G:O4'	2.19	0.42
31:DA:2649:U:H2'	31:DA:2650:U:C6	2.54	0.42
33:DD:83:GLU:OE1	33:DD:104:TYR:HE2	2.02	0.42
33:DD:93:ALA:HB2	33:DD:107:ALA:HB2	2.01	0.42
34:DE:181:LEU:HG	45:DT:11:GLU:OE2	2.20	0.42
35:DF:88:VAL:HG13	35:DF:91:GLY:H	1.84	0.42
36:DG:178:PHE:H	36:DG:178:PHE:HD1	1.67	0.42
36:DG:178:PHE:HB3	36:DG:180:PHE:CE1	2.54	0.42
39:DN:25:ARG:NH1	39:DN:25:ARG:CG	2.72	0.42
41:DP:39:LYS:O	41:DP:41:ARG:N	2.52	0.42
41:DP:83:VAL:HG12	41:DP:112:LEU:CD2	2.41	0.42
43:DR:76:VAL:O	43:DR:77:ARG:C	2.57	0.42
46:DU:30:LYS:HA	46:DU:30:LYS:HD3	1.82	0.42
46:DU:61:TRP:CH2	46:DU:94:ASN:HB2	2.55	0.42
50:DY:7:VAL:HB	50:DY:8:LYS:HD2	2.02	0.42
50:DY:18:GLY:O	50:DY:19:LYS:C	2.57	0.42
50:DY:42:VAL:CG2	50:DY:67:LEU:HD13	2.50	0.42
51:DZ:143:GLY:O	51:DZ:144:LEU:HD13	2.19	0.42
51:DZ:151:HIS:HB3	51:DZ:169:GLU:O	2.19	0.42
51:DZ:165:VAL:HG12	51:DZ:166:SER:OG	2.19	0.42
1:AA:53:A:C2	1:AA:359:U:O2	2.72	0.42
1:AA:276:G:C6	1:AA:277:C:C5	3.07	0.42
1:AA:394:G:C5	1:AA:395:C:C5	3.08	0.42
1:AA:620:C:C2	4:AD:135:LEU:HG	2.54	0.42
1:AA:640:A:C2	8:AH:115:SER:HB3	2.54	0.42
1:AA:654:G:H2'	1:AA:655:A:H5'	2.01	0.42
1:AA:955:U:H3	1:AA:1225:A:N6	2.16	0.42
1:AA:1267:C:N3	1:AA:1327:C:H4'	2.34	0.42
4:AD:127:THR:O	4:AD:128:VAL:HG23	2.18	0.42
4:AD:180:GLY:O	4:AD:181:MET:C	2.57	0.42
6:AF:1:MET:HA	6:AF:67:MET:O	2.19	0.42
6:AF:8:ILE:HG21	6:AF:26:ILE:HD13	2.02	0.42
7:AG:22:LEU:HG	7:AG:62:PHE:CE2	2.51	0.42
16:AP:9:PHE:O	16:AP:10:GLY:O	2.37	0.42
17:AQ:7:THR:HA	17:AQ:57:VAL:O	2.19	0.42
17:AQ:29:HIS:HA	17:AQ:30:PRO:HD2	1.82	0.42
18:AR:57:GLY:C	18:AR:58:LEU:HD12	2.40	0.42
24:B2:59:ARG:HD2	24:B2:59:ARG:HA	1.57	0.42
27:B5:7:PRO:HA	31:BA:2615:U:C2	2.55	0.42
29:B7:18:PHE:CE2	29:B7:22:MET:HG3	2.55	0.42
31:BA:11:G:H2'	31:BA:12:U:O4'	2.18	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:114:U:H3'	31:BA:115:C:C6	2.53	0.42
31:BA:195:A:H61	31:BA:198:C:H3'	1.85	0.42
31:BA:196:A:OP2	41:BP:51:PHE:CZ	2.72	0.42
31:BA:271(K):U:O2	38:BI:50:ARG:NH1	2.53	0.42
31:BA:758:C:O2'	31:BA:1981:A:N3	2.46	0.42
31:BA:884:C:O2'	31:BA:892:G:C8	2.48	0.42
31:BA:1002:G:H2'	31:BA:1003:G:O4'	2.20	0.42
31:BA:1152:C:H5''	46:BU:80:ILE:HG22	2.02	0.42
31:BA:1175:U:H4'	31:BA:1176:G:H8	1.85	0.42
31:BA:1206:G:C6	31:BA:1207:C:C4	3.08	0.42
31:BA:1407:C:N3	31:BA:1596:A:C2	2.87	0.42
31:BA:1465:G:C6	31:BA:1466:G:N7	2.87	0.42
31:BA:1503:U:H3'	31:BA:1503:U:H6	1.84	0.42
31:BA:1575:C:H2'	31:BA:1576:U:H6	1.84	0.42
31:BA:1956:U:H2'	31:BA:1957:C:C5'	2.45	0.42
31:BA:2074:U:H4'	31:BA:2598:A:O4'	2.19	0.42
31:BA:2415:G:C6	31:BA:2416:C:C4	3.07	0.42
31:BA:2494:G:H2'	31:BA:2495:G:O5'	2.19	0.42
31:BA:2554:U:N3	31:BA:2555:U:C4	2.87	0.42
31:BA:2556:C:H2'	31:BA:2557:G:C5'	2.49	0.42
31:BA:2632:A:N3	34:BE:61:ARG:CD	2.82	0.42
31:BA:2762:G:O6	31:BA:2763:G:C2	2.72	0.42
31:BA:2802:G:OP2	31:BA:2803:C:OP2	2.37	0.42
31:BA:2862:G:H2'	31:BA:2863:C:H5''	2.02	0.42
33:BD:35:LYS:CD	33:BD:64:ILE:N	2.83	0.42
35:BF:102:PRO:HB2	35:BF:105:VAL:CG2	2.47	0.42
38:BI:99:GLU:HG2	38:BI:103:ARG:HD2	2.02	0.42
40:BO:6:THR:HG22	40:BO:7:TYR:N	2.33	0.42
41:BP:115:LEU:HB2	41:BP:116:GLY:H	1.68	0.42
43:BR:34:ILE:HD12	43:BR:34:ILE:HA	1.83	0.42
45:BT:33:LYS:CB	45:BT:41:ARG:HB3	2.42	0.42
45:BT:106:SER:CB	45:BT:110:ILE:HD11	2.48	0.42
46:BU:44:ASN:HD22	46:BU:44:ASN:H	1.65	0.42
46:BU:49:HIS:CA	46:BU:52:ARG:HB2	2.37	0.42
49:BX:27:THR:OG1	49:BX:77:LYS:HA	2.19	0.42
49:BX:32:PRO:HG3	49:BX:72:LYS:HD3	2.01	0.42
49:BX:44:GLU:C	49:BX:46:ALA:H	2.23	0.42
51:BZ:101:PRO:HA	51:BZ:123:ASP:HB3	2.00	0.42
51:BZ:139:VAL:C	51:BZ:141:VAL:H	2.22	0.42
1:CA:152:A:N6	1:CA:170:U:C2	2.87	0.42
1:CA:257:G:H2'	1:CA:258:G:H8	1.84	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:370:C:H2'	1:CA:371:G:H8	1.85	0.42
1:CA:374:A:C2	1:CA:375:U:C2	3.08	0.42
1:CA:397:A:N7	1:CA:548:G:H8	2.16	0.42
1:CA:563:A:C6	1:CA:567:G:C4	3.07	0.42
1:CA:563:A:C6	1:CA:567:G:N3	2.87	0.42
1:CA:563:A:C8	1:CA:567:G:C1'	3.03	0.42
1:CA:595:G:H8	1:CA:595:G:O5'	2.02	0.42
1:CA:607:A:C2'	1:CA:608:A:H5'	2.49	0.42
1:CA:658:G:O4'	15:CO:22:THR:O	2.37	0.42
1:CA:853:G:N3	1:CA:854:G:C8	2.87	0.42
1:CA:976:G:C8	1:CA:1362:C:N4	2.87	0.42
1:CA:987:G:N2	1:CA:1219:U:C2	2.88	0.42
1:CA:1102:A:H2'	1:CA:1103:C:H5'	2.01	0.42
1:CA:1104:G:C5	1:CA:1105:A:N7	2.87	0.42
1:CA:1157:A:C8	1:CA:1181:G:N2	2.87	0.42
1:CA:1312:G:H1	1:CA:1325:C:H42	1.68	0.42
1:CA:1406:U:C2'	1:CA:1407:C:H5'	2.50	0.42
2:CB:15:VAL:HG21	2:CB:209:ARG:HH21	1.84	0.42
2:CB:87:ARG:CZ	2:CB:233:SER:HB3	2.49	0.42
2:CB:121:LEU:O	2:CB:121:LEU:HD23	2.20	0.42
2:CB:230:VAL:HB	2:CB:231:GLU:H	1.69	0.42
3:CC:159:GLY:HA2	3:CC:193:TYR:CD1	2.53	0.42
5:CE:75:THR:OG1	5:CE:76:ILE:N	2.53	0.42
5:CE:112:LEU:C	5:CE:114:GLY:N	2.73	0.42
8:CH:104:ARG:O	8:CH:105:ARG:HB2	2.18	0.42
14:CN:39:LEU:HD13	14:CN:47:LEU:HD12	2.01	0.42
15:CO:64:ARG:HH12	15:CO:88:ARG:HH12	1.66	0.42
16:CP:75:ARG:HA	16:CP:80:PHE:HD1	1.84	0.42
17:CQ:59:ILE:HG22	17:CQ:71:PHE:HD1	1.84	0.42
22:D0:68:GLU:OE1	22:D0:82:ARG:HB3	2.19	0.42
23:D1:33:LYS:O	23:D1:34:THR:HG22	2.19	0.42
24:D2:46:GLN:C	24:D2:48:HIS:H	2.23	0.42
25:D3:8:LEU:HB2	25:D3:28:LEU:CD1	2.37	0.42
27:D5:56:LYS:HB2	27:D5:57:VAL:H	1.55	0.42
31:DA:14:A:C2	31:DA:526:A:H2	2.38	0.42
31:DA:38:A:C6	31:DA:39:C:N4	2.88	0.42
31:DA:47:C:H6	31:DA:47:C:O5'	2.01	0.42
31:DA:200:U:O2	31:DA:386:G:N2	2.52	0.42
31:DA:272(D):G:H1	31:DA:364:C:H42	1.65	0.42
31:DA:466:A:H1'	31:DA:683:C:O4'	2.19	0.42
31:DA:594:U:N3	31:DA:595:C:C4	2.88	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:817:C:C3'	31:DA:818:G:H8	2.32	0.42
31:DA:918:A:C5	31:DA:919:G:H1'	2.55	0.42
31:DA:947:G:C2	31:DA:971:C:C2	3.08	0.42
31:DA:1515:G:C6	31:DA:1516:C:C4	3.07	0.42
31:DA:2056:G:OP2	31:DA:2057:A:OP2	2.38	0.42
31:DA:2418:A:C4	31:DA:2419:U:C5	3.07	0.42
31:DA:2476:A:C4	31:DA:2477:C:C6	3.07	0.42
31:DA:2516:G:C5	31:DA:2517:C:C4	3.07	0.42
31:DA:2636:U:P	34:DE:80:GLU:HG3	2.60	0.42
31:DA:2843:G:C5	31:DA:2844:G:N7	2.87	0.42
32:DB:51:G:P	44:DS:61:ASN:HD22	2.42	0.42
33:DD:35:LYS:CE	33:DD:65:ILE:HA	2.49	0.42
33:DD:130:ALA:HA	33:DD:192:THR:HA	2.01	0.42
34:DE:14:ILE:HG13	34:DE:21:VAL:CG2	2.49	0.42
35:DF:41:LEU:N	35:DF:41:LEU:HD23	2.34	0.42
35:DF:46:ARG:CB	35:DF:46:ARG:NH1	2.82	0.42
36:DG:7:LEU:HD12	36:DG:100:TRP:O	2.19	0.42
41:DP:144:GLU:N	41:DP:145:PRO:CD	2.72	0.42
44:DS:53:SER:HB3	44:DS:54:LEU:H	1.57	0.42
47:DV:50:PRO:HG2	47:DV:51:VAL:H	1.85	0.42
48:DW:50:VAL:HG13	48:DW:105:VAL:HG21	2.01	0.42
49:DX:60:ARG:HB2	49:DX:73:ARG:CA	2.49	0.42
49:DX:85:PRO:O	49:DX:87:GLN:HG2	2.19	0.42
50:DY:73:ARG:NH2	50:DY:82:PRO:HD3	2.35	0.42
51:DZ:6:LYS:HG2	51:DZ:8:TYR:CZ	2.54	0.42
51:DZ:143:GLY:N	51:DZ:144:LEU:HD22	2.33	0.42
1:AA:19:C:H4'	1:AA:864:A:O4'	2.19	0.42
1:AA:64:G:OP1	1:AA:64:G:H3'	2.20	0.42
1:AA:151:A:N6	1:AA:152:A:C2	2.88	0.42
1:AA:232:G:H2'	1:AA:233:C:O4'	2.20	0.42
1:AA:259:G:O2'	1:AA:260:G:H5'	2.19	0.42
1:AA:336:C:O2'	1:AA:337:C:H5'	2.19	0.42
1:AA:484:G:C1'	1:AA:485:G:O5'	2.68	0.42
1:AA:640:A:N3	8:AH:115:SER:HB2	2.34	0.42
1:AA:931:C:N3	1:AA:1387:G:C6	2.88	0.42
1:AA:991:U:C2'	1:AA:992:U:OP2	2.67	0.42
1:AA:1053:G:C2	1:AA:1199:U:C4	3.08	0.42
1:AA:1065:U:H4'	1:AA:1066:C:O5'	2.19	0.42
1:AA:1279:A:C2	10:AJ:43:ARG:NH1	2.88	0.42
3:AC:204:LEU:HB3	3:AC:205:GLY:H	1.49	0.42
4:AD:89:THR:O	4:AD:90:GLY:C	2.57	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:87:TYR:C	13:AM:89:GLY:N	2.73	0.42
20:AT:18:GLN:O	20:AT:19:SER:C	2.57	0.42
20:AT:73:HIS:O	20:AT:74:LYS:O	2.38	0.42
22:B0:71:ASP:C	22:B0:72:ARG:HG2	2.40	0.42
24:B2:14:ARG:HH11	24:B2:57:ILE:HG22	1.84	0.42
29:B7:15:THR:HG22	29:B7:16:HIS:ND1	2.34	0.42
30:B8:43:GLN:O	30:B8:44:LYS:CD	2.64	0.42
31:BA:109:G:C4	31:BA:110:G:C8	3.07	0.42
31:BA:109:G:H2'	31:BA:110:G:O4'	2.20	0.42
31:BA:128:C:O2'	31:BA:129:C:P	2.76	0.42
31:BA:350:U:H2'	31:BA:351:G:O5'	2.19	0.42
31:BA:441:U:H2'	31:BA:442:G:C8	2.55	0.42
31:BA:730:C:OP2	31:BA:731:C:OP2	2.37	0.42
31:BA:1002:G:C2	31:BA:1003:G:H1'	2.53	0.42
31:BA:1420:U:H6	31:BA:1420:U:H2'	1.48	0.42
31:BA:1632:A:C5	31:BA:1633:G:C6	3.08	0.42
31:BA:1714:G:N2	31:BA:1717:G:C4	2.88	0.42
31:BA:1796:U:H4'	33:BD:256:GLY:CA	2.49	0.42
31:BA:1814:G:C6	31:BA:1815:A:C6	3.08	0.42
31:BA:1947:C:C2	31:BA:1960:A:C2	3.07	0.42
31:BA:2093:G:H2'	31:BA:2094:G:H8	1.85	0.42
31:BA:2415:G:H2'	31:BA:2416:C:H5'	2.00	0.42
31:BA:2465:C:C2	31:BA:2486:G:C2	3.07	0.42
31:BA:2472:G:C6	31:BA:2475:C:C4	3.07	0.42
31:BA:2588:G:O2'	31:BA:2589:A:H5'	2.20	0.42
31:BA:2628:C:O2'	31:BA:2781:A:H3'	2.20	0.42
31:BA:2639:A:H2'	31:BA:2640:G:H5'	2.01	0.42
33:BD:12:SER:C	33:BD:14:ARG:N	2.71	0.42
33:BD:35:LYS:N	33:BD:64:ILE:HG23	2.34	0.42
33:BD:108:PRO:HD2	33:BD:111:LEU:HD22	2.01	0.42
34:BE:169:ASN:HD22	34:BE:169:ASN:HA	1.61	0.42
35:BF:29:ASN:O	35:BF:30:PRO:C	2.58	0.42
37:BH:89:ILE:HG13	37:BH:129:THR:HA	2.01	0.42
38:BI:133:HIS:O	38:BI:134:PRO:C	2.57	0.42
41:BP:82:GLY:HA2	41:BP:113:LYS:O	2.20	0.42
41:BP:84:ASN:C	41:BP:86:LYS:H	2.23	0.42
43:BR:59:ASP:O	43:BR:62:ALA:HB3	2.19	0.42
44:BS:39:ILE:HG22	44:BS:39:ILE:O	2.19	0.42
46:BU:88:ILE:HD12	46:BU:88:ILE:H	1.82	0.42
47:BV:21:ARG:H	47:BV:21:ARG:HE	1.68	0.42
49:BX:13:LEU:N	49:BX:13:LEU:HD23	2.34	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:66:G:C4'	1:CA:173:U:C4	3.02	0.42
1:CA:90:U:O3'	1:CA:91:C:C6	2.72	0.42
1:CA:150:C:N4	1:CA:170:U:C2	2.87	0.42
1:CA:308:C:H2'	1:CA:309:G:C8	2.46	0.42
1:CA:511:C:O3'	4:CD:43:HIS:CE1	2.73	0.42
1:CA:581:G:C2	1:CA:582:U:C5	3.07	0.42
1:CA:611:A:O2'	1:CA:612:C:H5'	2.19	0.42
1:CA:642:A:C4	8:CH:114:THR:O	2.72	0.42
1:CA:683:G:C6	1:CA:684:A:C6	3.07	0.42
1:CA:690:G:C6	1:CA:691:G:C6	3.07	0.42
1:CA:1084:G:OP1	1:CA:1086:U:C4	2.72	0.42
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.55	0.42
1:CA:1390:U:H2'	1:CA:1391:U:H6	1.85	0.42
1:CA:1503:A:O2'	1:CA:1504:G:H5''	2.18	0.42
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	2.20	0.42
10:CJ:49:VAL:HG21	14:CN:44:LEU:HD23	2.02	0.42
15:CO:43:LEU:O	15:CO:44:LYS:C	2.57	0.42
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.55	0.42
19:CS:19:VAL:HG12	19:CS:19:VAL:O	2.20	0.42
20:CT:89:ARG:HD2	20:CT:104:LEU:CD1	2.49	0.42
23:D1:10:LYS:HB2	23:D1:14:VAL:C	2.40	0.42
23:D1:20:ARG:HG2	23:D1:20:ARG:NH2	2.34	0.42
25:D3:52:HIS:N	25:D3:52:HIS:HD2	2.16	0.42
27:D5:2:ALA:N	31:DA:2015:A:N3	2.67	0.42
29:D7:35:ARG:HG3	29:D7:42:LEU:HD11	2.02	0.42
30:D8:4:MET:SD	30:D8:61:LEU:CD1	2.99	0.42
31:DA:66:C:C2	31:DA:89:G:N2	2.88	0.42
31:DA:272(B):G:H2'	31:DA:272(C):G:O5'	2.20	0.42
31:DA:304:G:C5	31:DA:305:U:C5	3.07	0.42
31:DA:407:G:H2'	31:DA:408:G:C8	2.55	0.42
31:DA:515:A:H1'	31:DA:581:C:C1'	2.47	0.42
31:DA:661:C:H2'	31:DA:662:G:C8	2.55	0.42
31:DA:812:C:H5''	31:DA:1250:G:O2'	2.20	0.42
31:DA:860:U:O2	31:DA:860:U:O4'	2.37	0.42
31:DA:860:U:C1'	31:DA:2268:A:H5'	2.49	0.42
31:DA:862:G:H5'	32:DB:79:C:H4'	2.01	0.42
31:DA:867:C:O2	31:DA:913:U:H5'	2.20	0.42
31:DA:1022:G:C6	31:DA:1140:C:N3	2.88	0.42
31:DA:1464:C:O2'	31:DA:1528:A:H1'	2.20	0.42
31:DA:1581:G:H2'	31:DA:1582:C:H5'	2.00	0.42
31:DA:1629:U:O2	31:DA:2698:U:C5'	2.67	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1635:G:H8	31:DA:1635:G:H5'	1.84	0.42
31:DA:2037:G:C6	31:DA:2038:G:C6	3.08	0.42
31:DA:2068:U:O2	31:DA:2430:A:H2	2.03	0.42
31:DA:2305:A:H4'	31:DA:2305:A:OP1	2.19	0.42
31:DA:2418:A:C6	31:DA:2419:U:C4	3.08	0.42
31:DA:2610:C:H4'	31:DA:2611:U:OP2	2.20	0.42
31:DA:2710:C:H2'	31:DA:2711:A:O4'	2.20	0.42
31:DA:2815:C:H2'	31:DA:2816:C:O4'	2.19	0.42
31:DA:2887:U:O2	31:DA:2887:U:H2'	2.19	0.42
32:DB:25:A:C4	32:DB:26:A:C8	3.08	0.42
32:DB:111:G:H2'	32:DB:112:U:H6	1.84	0.42
33:DD:11:PRO:O	33:DD:12:SER:CB	2.68	0.42
34:DE:126:PRO:HB2	34:DE:128:SER:O	2.20	0.42
35:DF:28:ILE:HG21	35:DF:116:ASP:HB2	2.02	0.42
37:DH:20:ALA:CB	37:DH:21:PRO:CD	2.92	0.42
37:DH:52:VAL:HG13	37:DH:65:HIS:NE2	2.34	0.42
37:DH:86:GLU:OE2	37:DH:132:ARG:HD3	2.19	0.42
38:DI:33:ARG:C	38:DI:35:LEU:H	2.22	0.42
38:DI:100:ALA:O	38:DI:104:GLN:HB2	2.20	0.42
38:DI:132:PRO:C	38:DI:133:HIS:CD2	2.92	0.42
39:DN:97:ARG:O	39:DN:100:GLU:N	2.53	0.42
41:DP:27:HIS:CD2	41:DP:28:GLY:N	2.87	0.42
41:DP:51:PHE:O	41:DP:52:GLU:CB	2.64	0.42
42:DQ:8:LYS:HG3	42:DQ:9:TYR:H	1.83	0.42
42:DQ:16:ARG:CG	42:DQ:17:LEU:H	2.31	0.42
42:DQ:60:ARG:O	42:DQ:60:ARG:HG2	2.20	0.42
44:DS:73:LEU:O	44:DS:74:ALA:C	2.58	0.42
45:DT:65:LYS:CG	45:DT:66:VAL:H	2.33	0.42
47:DV:49:THR:HA	47:DV:50:PRO:HD3	1.84	0.42
47:DV:56:SER:O	47:DV:58:VAL:HG23	2.19	0.42
47:DV:90:PRO:HG2	47:DV:91:TYR:H	1.84	0.42
49:DX:27:THR:HB	49:DX:77:LYS:HG2	2.00	0.42
51:DZ:28:MET:CE	51:DZ:59:LEU:HD12	2.49	0.42
1:AA:147:G:C4	1:AA:148:G:C8	3.07	0.42
1:AA:161:A:H8	1:AA:161:A:O5'	2.02	0.42
1:AA:198:G:O6	1:AA:219:C:N4	2.53	0.42
1:AA:457:C:H42	1:AA:474:G:H1	1.68	0.42
1:AA:977:A:C2'	1:AA:978:A:H5'	2.49	0.42
2:AB:83:MET:SD	2:AB:234:PRO:HG2	2.59	0.42
3:AC:157:ILE:HD11	3:AC:166:GLU:HB2	2.02	0.42
4:AD:68:TYR:O	4:AD:69:GLY:C	2.58	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:76:ILE:HD11	5:AE:142:LEU:CD1	2.50	0.42
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.19	0.42
9:AI:26:VAL:HG13	9:AI:61:ALA:HB3	2.02	0.42
9:AI:105:ASP:C	9:AI:107:ARG:N	2.73	0.42
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	2.20	0.42
12:AL:105:TYR:C	12:AL:107:ALA:N	2.72	0.42
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.20	0.42
22:B0:75:LEU:HD23	22:B0:75:LEU:HA	1.71	0.42
23:B1:20:ARG:HG2	23:B1:20:ARG:NH2	2.30	0.42
23:B1:37:ILE:CD1	31:BA:2079:U:O3'	2.68	0.42
24:B2:46:GLN:O	24:B2:49:LYS:N	2.52	0.42
27:B5:48:GLU:O	27:B5:49:CYS:C	2.58	0.42
27:B5:55:ARG:HG3	27:B5:56:LYS:H	1.85	0.42
30:B8:16:ILE:HD12	30:B8:57:ARG:HD2	2.02	0.42
31:BA:143:G:H2'	31:BA:143(A):C:H6	1.84	0.42
31:BA:154:G:N3	31:BA:154(A):C:N3	2.67	0.42
31:BA:210:C:H4'	31:BA:1367:A:H1'	2.00	0.42
31:BA:449:A:C2'	31:BA:450:G:H5'	2.49	0.42
31:BA:543:C:H6	31:BA:543:C:HO2'	1.66	0.42
31:BA:817:C:C5	31:BA:818:G:N7	2.88	0.42
31:BA:824:A:C2'	31:BA:825:C:H5'	2.50	0.42
31:BA:832:G:C4	31:BA:833:U:C5	3.08	0.42
31:BA:855:G:H2'	31:BA:856:C:C6	2.55	0.42
31:BA:862:G:H5'	32:BB:79:C:H4'	2.02	0.42
31:BA:942:G:C2'	31:BA:943:U:C5'	2.97	0.42
31:BA:993:G:OP1	46:BU:50:ARG:NH2	2.53	0.42
31:BA:1216:G:OP1	46:BU:8:VAL:HG22	2.20	0.42
31:BA:1275:A:C8	43:BR:16:HIS:CD2	3.08	0.42
31:BA:1338:G:N2	31:BA:1339:G:C4	2.88	0.42
31:BA:1881:C:C4	31:BA:1882:C:C5	3.08	0.42
31:BA:2018:G:H2'	31:BA:2019:A:C8	2.55	0.42
31:BA:2027:G:C2'	31:BA:2028:U:H5'	2.50	0.42
31:BA:2040:C:H2'	31:BA:2041:U:O4'	2.20	0.42
31:BA:2263:C:O2'	31:BA:2264:C:H5'	2.20	0.42
31:BA:2303:G:H4'	36:BG:124:SER:O	2.20	0.42
31:BA:2331:G:O2'	31:BA:2336:A:N1	2.45	0.42
31:BA:2547:U:H2'	31:BA:2548:G:C8	2.54	0.42
31:BA:2584:U:H6	31:BA:2585:U:C5	2.37	0.42
31:BA:2620:C:C1'	34:BE:156:MET:HB2	2.49	0.42
31:BA:2702:U:H5	31:BA:2705:A:N6	2.18	0.42
32:BB:28:C:C2	32:BB:29:A:C8	3.07	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:9:TYR:CZ	33:BD:13:ARG:HG2	2.54	0.42
33:BD:27:THR:O	33:BD:28:GLU:CB	2.67	0.42
33:BD:107:ALA:HA	33:BD:108:PRO:HD2	1.78	0.42
33:BD:176:ARG:HA	33:BD:182:LEU:CD2	2.49	0.42
33:BD:255:LYS:C	33:BD:255:LYS:HZ2	2.23	0.42
34:BE:34:VAL:O	34:BE:34:VAL:HG23	2.19	0.42
35:BF:57:VAL:CG1	35:BF:59:TYR:CD1	3.01	0.42
37:BH:83:TYR:C	37:BH:84:SER:OG	2.58	0.42
37:BH:155:SER:C	37:BH:157:TYR:N	2.72	0.42
41:BP:141:ALA:H	25:D3:1:MET:HE1	1.84	0.42
42:BQ:34:LEU:HB3	42:BQ:104:PHE:HB2	2.02	0.42
43:BR:65:LEU:HD12	43:BR:65:LEU:HA	1.67	0.42
44:BS:17:ARG:O	44:BS:18:ILE:HB	2.19	0.42
46:BU:92:ARG:NH2	47:BV:11:GLN:H	2.18	0.42
48:BW:64:MET:HE3	48:BW:109:GLU:HG3	2.02	0.42
1:CA:12:U:H4'	1:CA:526:C:H4'	2.01	0.42
1:CA:273:A:N6	1:CA:274:A:N6	2.67	0.42
1:CA:397:A:C6	1:CA:548:G:N7	2.87	0.42
1:CA:499:A:C4'	1:CA:500:G:OP1	2.61	0.42
1:CA:511:C:O2'	1:CA:512:U:H5''	2.20	0.42
1:CA:667:G:C2	1:CA:740:U:O2	2.73	0.42
1:CA:781:A:C3'	1:CA:782:A:H5'	2.50	0.42
1:CA:1091:U:O2	1:CA:1093:A:H8	2.03	0.42
1:CA:1316:G:O3'	14:CN:18:VAL:HG22	2.20	0.42
1:CA:1430:C:C2	1:CA:1471:G:C2	3.08	0.42
1:CA:1466:C:H2'	1:CA:1467:G:C5'	2.48	0.42
3:CC:110:ASN:O	3:CC:111:LEU:HD23	2.19	0.42
4:CD:100:ARG:HH12	4:CD:137:SER:HB3	1.84	0.42
4:CD:196:LEU:HD12	4:CD:196:LEU:N	2.34	0.42
7:CG:51:GLN:HA	7:CG:51:GLN:OE1	2.20	0.42
15:CO:39:LEU:HD13	15:CO:43:LEU:HD11	2.02	0.42
15:CO:63:ARG:O	15:CO:67:LEU:HD12	2.20	0.42
16:CP:43:LYS:HG2	16:CP:48:TRP:CE3	2.55	0.42
16:CP:80:PHE:O	16:CP:81:ARG:C	2.58	0.42
17:CQ:15:MET:HE3	17:CQ:15:MET:HB2	1.96	0.42
18:CR:40:LEU:HA	18:CR:43:PHE:HD1	1.85	0.42
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.19	0.42
24:D2:34:GLU:O	24:D2:34:GLU:CD	2.58	0.42
25:D3:46:ASN:O	25:D3:49:LYS:N	2.53	0.42
30:D8:52:LYS:O	30:D8:52:LYS:HG3	2.19	0.42
31:DA:48:G:H4'	31:DA:52:A:O4'	2.19	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:128:C:C2'	31:DA:129:C:H5''	2.49	0.42
31:DA:330:A:HO2'	31:DA:331:A:H8	1.62	0.42
31:DA:372:G:O2'	31:DA:373:U:OP2	2.36	0.42
31:DA:475:U:C4	31:DA:481:G:O6	2.72	0.42
31:DA:507:A:O4'	31:DA:509:C:C2	2.72	0.42
31:DA:735:A:H3'	31:DA:736:C:H6	1.85	0.42
31:DA:825:C:H2'	31:DA:826:U:O5'	2.20	0.42
31:DA:866:A:C6	31:DA:914:C:C6	3.08	0.42
31:DA:911:A:O5'	31:DA:912:C:H5''	2.19	0.42
31:DA:1009:A:C5	31:DA:1010:A:C6	3.08	0.42
31:DA:1169:G:C8	31:DA:1169:G:H3'	2.55	0.42
31:DA:1711:C:O2'	31:DA:1712:C:H5'	2.19	0.42
31:DA:1881:C:H5'	31:DA:1882:C:P	2.60	0.42
31:DA:2070:G:C4	31:DA:2071:A:C8	3.08	0.42
31:DA:2442:C:C2	31:DA:2443:C:C5	3.08	0.42
31:DA:2474:C:H5''	31:DA:2475:C:H5	1.85	0.42
31:DA:2486:G:C2'	31:DA:2487:G:O5'	2.68	0.42
31:DA:2544:G:H1'	31:DA:2646:C:C4'	2.43	0.42
31:DA:2615:U:H2'	31:DA:2616:C:C6	2.55	0.42
31:DA:2849:U:H4'	31:DA:2868:A:C2	2.54	0.42
32:DB:33:G:C6	32:DB:50:G:C6	3.07	0.42
32:DB:116:G:N3	32:DB:117:G:C8	2.87	0.42
32:DB:118:G:N2	32:DB:119:G:N7	2.68	0.42
33:DD:58:HIS:CD2	33:DD:59:LYS:H	2.38	0.42
34:DE:7:VAL:HG12	34:DE:51:PHE:HE1	1.84	0.42
35:DF:30:PRO:HB2	35:DF:31:HIS:H	1.74	0.42
35:DF:110:LEU:HD22	35:DF:202:PHE:HE1	1.84	0.42
37:DH:123:PHE:CE2	37:DH:148:ILE:HD11	2.55	0.42
43:DR:9:LYS:HG3	43:DR:43:GLU:OE2	2.19	0.42
44:DS:69:VAL:O	44:DS:72:ALA:HB3	2.19	0.42
45:DT:38:ASN:C	45:DT:38:ASN:ND2	2.73	0.42
45:DT:82:LEU:O	45:DT:83:ILE:C	2.57	0.42
46:DU:92:ARG:NH2	47:DV:10:LYS:HG2	2.35	0.42
50:DY:76:CYS:O	50:DY:77:PRO:C	2.56	0.42
51:DZ:19:ARG:NH1	51:DZ:84:GLU:OE2	2.52	0.42
1:AA:39:G:C5	1:AA:40:C:C5	3.07	0.42
1:AA:148:G:C2	1:AA:149:A:N7	2.88	0.42
1:AA:437:U:C2'	1:AA:438:G:C5'	2.91	0.42
1:AA:453:A:H4'	16:AP:72:ARG:HB2	2.02	0.42
1:AA:611:A:O2'	1:AA:612:C:H5'	2.19	0.42
1:AA:957:U:C2'	1:AA:959:A:N7	2.82	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.19	0.42
1:AA:996:A:H2'	1:AA:997:U:O4'	2.20	0.42
1:AA:1151:A:O2'	1:AA:1152:A:H8	2.03	0.42
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.55	0.42
2:AB:15:VAL:HG21	2:AB:209:ARG:HH21	1.85	0.42
2:AB:61:LEU:CA	2:AB:64:ARG:HG2	2.49	0.42
2:AB:168:THR:HG21	2:AB:192:SER:HA	2.01	0.42
2:AB:189:ASP:OD1	2:AB:189:ASP:N	2.51	0.42
3:AC:133:ALA:C	3:AC:134:ILE:HD13	2.40	0.42
3:AC:134:ILE:HD11	3:AC:153:VAL:CG2	2.50	0.42
4:AD:46:LYS:O	4:AD:48:ALA:N	2.52	0.42
4:AD:116:GLN:O	4:AD:120:LEU:HG	2.19	0.42
6:AF:98:LEU:CD1	6:AF:101:ALA:HA	2.50	0.42
7:AG:69:VAL:HG11	7:AG:104:LEU:HD22	2.02	0.42
8:AH:36:LEU:CA	8:AH:39:LEU:HD23	2.41	0.42
8:AH:109:ILE:CD1	8:AH:111:ILE:HG12	2.49	0.42
10:AJ:53:PRO:HA	14:AN:42:ILE:HD12	2.02	0.42
10:AJ:99:LYS:HD3	10:AJ:99:LYS:HA	1.75	0.42
12:AL:10:LEU:O	12:AL:14:GLY:HA2	2.19	0.42
12:AL:77:LEU:HD21	12:AL:107:ALA:HA	2.02	0.42
16:AP:71:ARG:O	16:AP:72:ARG:C	2.57	0.42
17:AQ:95:TYR:O	17:AQ:97:SER:N	2.53	0.42
20:AT:35:THR:O	20:AT:38:LYS:HB2	2.19	0.42
21:AU:12:LYS:HB3	21:AU:22:ARG:HD2	2.01	0.42
29:B7:34:ARG:NH1	29:B7:39:ARG:CG	2.82	0.42
31:BA:151:C:C2	31:BA:176:G:N2	2.88	0.42
31:BA:182:A:C2'	31:BA:433:C:O2'	2.67	0.42
31:BA:380:U:O2	31:BA:381:G:C8	2.73	0.42
31:BA:465:G:C2	31:BA:466:A:C2	3.08	0.42
31:BA:689:A:O2'	31:BA:690:G:H5'	2.20	0.42
31:BA:707:G:C5	31:BA:708:C:C5	3.07	0.42
31:BA:769:G:C2'	31:BA:770:G:H5'	2.50	0.42
31:BA:773:U:H2'	31:BA:774:A:H5'	2.01	0.42
31:BA:821:A:H5''	31:BA:822:U:O5'	2.20	0.42
31:BA:1173:G:H2'	31:BA:1175:U:C5	2.55	0.42
31:BA:1324:G:N2	31:BA:1331:A:C4	2.88	0.42
31:BA:1408:C:C2	31:BA:1595:G:C2	3.08	0.42
31:BA:1465:G:C5	31:BA:1466:G:C8	3.08	0.42
31:BA:1599:C:OP1	49:BX:37:THR:N	2.53	0.42
31:BA:2290:G:C2	31:BA:2343:C:O2	2.72	0.42
31:BA:2532:G:N2	31:BA:2663:G:O2'	2.45	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:47:LYS:HE2	36:BG:81:LYS:HB2	2.02	0.42
37:BH:41:MET:SD	37:BH:55:PRO:CB	3.05	0.42
40:BO:98:VAL:HG12	40:BO:117:LEU:HB3	2.01	0.42
43:BR:30:THR:HG22	43:BR:30:THR:O	2.19	0.42
44:BS:95:HIS:O	44:BS:97:ARG:N	2.52	0.42
48:BW:18:ARG:NH1	48:BW:76:VAL:O	2.53	0.42
48:BW:29:LEU:HD11	48:BW:51:LEU:HD11	2.02	0.42
51:BZ:19:ARG:NH1	51:BZ:19:ARG:CG	2.73	0.42
51:BZ:28:MET:HA	51:BZ:88:PHE:O	2.19	0.42
1:CA:27:G:C5	1:CA:557:G:C2	3.08	0.42
1:CA:64:G:H5'	1:CA:66:G:OP1	2.20	0.42
1:CA:146:G:O6	1:CA:176:C:N3	2.53	0.42
1:CA:155:C:H2'	1:CA:156:G:H8	1.84	0.42
1:CA:375:U:H2'	1:CA:376:G:H8	1.84	0.42
1:CA:375:U:C4'	16:CP:17:TYR:CE2	3.03	0.42
1:CA:501:C:C6	1:CA:501:C:H3'	2.55	0.42
1:CA:563:A:C6	1:CA:567:G:C2	3.08	0.42
1:CA:666:G:N1	1:CA:741:G:C5	2.87	0.42
1:CA:754:C:O2	1:CA:754:C:C3'	2.68	0.42
1:CA:954:G:N2	1:CA:1226:C:O2	2.51	0.42
1:CA:957:U:H2'	1:CA:959:A:N7	2.35	0.42
1:CA:1121:U:C4	1:CA:1122:U:C4	3.08	0.42
1:CA:1236:A:OP1	21:CU:3:LYS:NZ	2.40	0.42
1:CA:1255:G:N3	1:CA:1255:G:H2'	2.34	0.42
1:CA:1383:C:H2'	1:CA:1384:C:C6	2.54	0.42
3:CC:134:ILE:HD12	3:CC:151:VAL:CG1	2.47	0.42
4:CD:20:TYR:CD2	4:CD:26:CYS:CB	3.02	0.42
6:CF:11:ASN:O	6:CF:14:LEU:HD12	2.19	0.42
9:CI:79:LEU:HD11	9:CI:83:ARG:CZ	2.49	0.42
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.39	0.42
17:CQ:72:ARG:HE	17:CQ:72:ARG:HB2	1.66	0.42
17:CQ:95:TYR:O	17:CQ:98:LEU:N	2.40	0.42
19:CS:15:LEU:CD1	19:CS:31:ILE:HD11	2.50	0.42
23:D1:87:PRO:HD2	23:D1:89:GLU:OE2	2.20	0.42
28:D6:32:ASN:O	28:D6:33:LYS:CG	2.68	0.42
30:D8:14:VAL:HG13	30:D8:23:VAL:O	2.20	0.42
31:DA:244:A:C2	31:DA:255:A:C5	3.08	0.42
31:DA:271(H):G:N1	31:DA:271(Q):G:C6	2.87	0.42
31:DA:388:G:N7	31:DA:390:A:C4	2.88	0.42
31:DA:687:C:O2	31:DA:788:A:H5'	2.19	0.42
31:DA:977:G:C6	31:DA:987:G:C5	3.07	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1115:G:C2'	31:DA:1116:C:C6	2.91	0.42
31:DA:1326:U:O2'	31:DA:1327:C:H5'	2.20	0.42
31:DA:1803:A:C8	31:DA:1804:C:C5	3.07	0.42
31:DA:1811:G:H2'	31:DA:1812:A:O4'	2.20	0.42
31:DA:1909:C:H5'	31:DA:1910:G:OP2	2.19	0.42
31:DA:1925:C:H3'	31:DA:1925:C:C6	2.55	0.42
31:DA:2191:G:C2'	31:DA:2192:G:O5'	2.68	0.42
31:DA:2262:U:C4	31:DA:2279:G:N1	2.88	0.42
31:DA:2317:C:O2	31:DA:2318:G:O4'	2.38	0.42
31:DA:2358:G:C4	31:DA:2359:C:C6	3.08	0.42
31:DA:2633:G:H2'	31:DA:2634:G:O4'	2.20	0.42
31:DA:2772:C:C2	31:DA:2773:C:C5	3.07	0.42
31:DA:2863:C:OP1	45:DT:93:ARG:NH1	2.52	0.42
31:DA:2892:A:N6	31:DA:2893:G:C2	2.88	0.42
32:DB:3:C:H5''	32:DB:4:C:OP2	2.18	0.42
32:DB:45:A:C2	32:DB:46:A:C1'	3.03	0.42
33:DD:266:SER:O	33:DD:267:SER:CB	2.67	0.42
34:DE:92:THR:O	34:DE:93:VAL:HB	2.19	0.42
36:DG:43:LEU:HD13	36:DG:153:ARG:HD2	2.02	0.42
38:DI:31:LEU:HD12	38:DI:31:LEU:HA	1.71	0.42
38:DI:93:THR:HB	38:DI:119:PRO:HB3	2.01	0.42
39:DN:37:LYS:HD3	46:DU:63:VAL:HG13	2.01	0.42
39:DN:42:TRP:HD1	46:DU:64:ARG:NE	2.17	0.42
39:DN:63:THR:O	39:DN:64:GLY:O	2.38	0.42
39:DN:82:LEU:HD12	39:DN:82:LEU:N	2.32	0.42
40:DO:23:ARG:CG	40:DO:23:ARG:NH1	2.64	0.42
40:DO:88:ASN:O	40:DO:91:LEU:HA	2.20	0.42
41:DP:14:LYS:O	41:DP:15:ARG:HG3	2.20	0.42
42:DQ:25:ASP:HB3	42:DQ:102:VAL:HG23	2.01	0.42
42:DQ:69:PHE:CG	42:DQ:70:PRO:HD2	2.55	0.42
45:DT:92:GLY:C	45:DT:94:ALA:N	2.73	0.42
48:DW:45:TYR:O	48:DW:48:ALA:HB3	2.19	0.42
51:DZ:45:ASP:OD1	51:DZ:49:ARG:HG2	2.20	0.42
1:AA:122:G:H8	1:AA:122:G:O5'	2.01	0.42
1:AA:235:C:H2'	1:AA:236:G:H8	1.84	0.42
1:AA:246:A:C4	1:AA:279:A:C6	3.08	0.42
1:AA:298:A:H2'	1:AA:299:G:O4'	2.19	0.42
1:AA:354:G:C5	1:AA:355:C:C5	3.08	0.42
1:AA:595:G:O5'	1:AA:595:G:H8	2.03	0.42
1:AA:649:G:C4	1:AA:650:G:C8	3.08	0.42
1:AA:670:G:C4	1:AA:671:G:C8	3.08	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:682:G:N1	1:AA:683:G:C5	2.88	0.42
1:AA:711:G:N2	1:AA:712:A:N3	2.67	0.42
1:AA:807:A:C6	1:AA:808:C:C4	3.08	0.42
1:AA:955:U:H6	1:AA:955:U:O5'	2.03	0.42
1:AA:1104:G:C5	1:AA:1105:A:N7	2.88	0.42
1:AA:1442(B):A:OP1	1:AA:1442(B):A:H4'	2.18	0.42
3:AC:11:ARG:O	3:AC:14:ILE:N	2.52	0.42
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	2.02	0.42
9:AI:45:ALA:O	9:AI:78:LYS:HE3	2.20	0.42
9:AI:79:LEU:HD11	9:AI:83:ARG:CZ	2.50	0.42
10:AJ:38:ILE:HG12	10:AJ:71:LEU:O	2.20	0.42
14:AN:13:THR:N	14:AN:14:PRO:CD	2.82	0.42
16:AP:49:LEU:HD21	16:AP:77:ALA:HB2	2.01	0.42
24:B2:48:HIS:NE2	31:BA:75:G:H4'	2.35	0.42
28:B6:25:LYS:HB2	28:B6:25:LYS:HE3	1.83	0.42
29:B7:15:THR:HG22	29:B7:16:HIS:CD2	2.55	0.42
29:B7:15:THR:HG22	29:B7:16:HIS:N	2.32	0.42
31:BA:18:C:H2'	31:BA:19:C:H6	1.84	0.42
31:BA:80:G:N2	31:BA:81:G:H1'	2.34	0.42
31:BA:104:U:C5	31:BA:105:C:C4	3.08	0.42
31:BA:271(K):U:O2'	31:BA:271(M):G:C2	2.72	0.42
31:BA:349:G:O2'	31:BA:350:U:H5'	2.20	0.42
31:BA:350:U:C2'	31:BA:351:G:O5'	2.68	0.42
31:BA:533:G:H5'	46:BU:24:TYR:CE2	2.55	0.42
31:BA:587:C:OP2	41:BP:33:ARG:NH2	2.46	0.42
31:BA:939:G:C4	31:BA:940:G:C8	3.08	0.42
31:BA:1292:U:O2'	31:BA:1293:C:H5'	2.20	0.42
31:BA:1488:G:N2	31:BA:1502:C:C6	2.88	0.42
31:BA:1496:A:N7	31:BA:1498:C:N3	2.68	0.42
31:BA:1509:C:OP1	31:BA:1509:C:H4'	2.20	0.42
31:BA:1528:A:C8	31:BA:1528(A):A:C4	3.07	0.42
31:BA:2032:G:OP1	31:BA:2032:G:C8	2.72	0.42
31:BA:2304:G:N2	31:BA:2312:U:H3	2.18	0.42
31:BA:2306:C:P	31:BA:2307:G:C8	3.13	0.42
31:BA:2348:U:O4	31:BA:2382:G:C2	2.73	0.42
31:BA:2454:G:H2'	31:BA:2455:G:H8	1.85	0.42
31:BA:2467:C:O2'	31:BA:2468:G:H5'	2.19	0.42
31:BA:2488:A:H2'	31:BA:2489:G:O4'	2.20	0.42
31:BA:2887:U:O2	31:BA:2887:U:H2'	2.20	0.42
32:BB:29:A:H2'	32:BB:30:C:C6	2.54	0.42
33:BD:53:PHE:C	33:BD:218:ARG:HB2	2.40	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:94:LEU:HD13	33:BD:94:LEU:O	2.19	0.42
35:BF:2:LYS:O	35:BF:25:PRO:HG2	2.19	0.42
37:BH:35:VAL:O	37:BH:37:VAL:HG23	2.20	0.42
37:BH:103:LEU:HG	37:BH:104:GLU:N	2.33	0.42
39:BN:40:PRO:CB	46:BU:68:ALA:HB2	2.48	0.42
41:BP:32:THR:HG21	41:BP:37:GLY:HA2	2.02	0.42
41:BP:110:TYR:CE2	41:BP:111:ARG:CD	3.03	0.42
45:BT:30:VAL:HG21	45:BT:84:GLN:H	1.83	0.42
45:BT:112:ARG:O	45:BT:112:ARG:HD3	2.20	0.42
47:BV:73:SER:N	47:BV:88:ARG:NH2	2.66	0.42
49:BX:31:HIS:O	49:BX:32:PRO:C	2.58	0.42
49:BX:39:ILE:HA	49:BX:42:ALA:HB3	2.01	0.42
51:BZ:29:TYR:HA	51:BZ:33:LEU:O	2.20	0.42
51:BZ:98:MET:HE3	51:BZ:99:TYR:O	2.18	0.42
1:CA:240:C:H2'	1:CA:241:C:H6	1.83	0.42
1:CA:515:G:C4	1:CA:537:G:C2	3.07	0.42
1:CA:577:G:C1'	1:CA:816:A:C4	3.03	0.42
1:CA:691:G:N7	11:CK:26:ASN:CB	2.82	0.42
1:CA:921:U:O2	1:CA:922:G:H2'	2.20	0.42
1:CA:1117:G:O5'	9:CI:104:ARG:NH1	2.53	0.42
1:CA:1333:A:H3'	1:CA:1334:G:H8	1.85	0.42
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.20	0.42
1:CA:1470:G:H2'	1:CA:1471:G:H5'	2.00	0.42
1:CA:1502:A:C2	1:CA:1505:G:N1	2.59	0.42
2:CB:60:ASP:C	2:CB:64:ARG:HG2	2.40	0.42
5:CE:142:LEU:HA	5:CE:142:LEU:HD23	1.81	0.42
6:CF:53:ALA:O	6:CF:54:LYS:HB2	2.18	0.42
7:CG:69:VAL:HG11	7:CG:104:LEU:HD22	2.02	0.42
7:CG:150:ALA:HB1	11:CK:57:THR:HG21	2.01	0.42
9:CI:63:ILE:HD12	9:CI:63:ILE:N	2.35	0.42
9:CI:105:ASP:C	9:CI:107:ARG:N	2.73	0.42
9:CI:116:LYS:HD2	9:CI:120:ARG:HA	2.00	0.42
11:CK:122:LYS:O	11:CK:126:ARG:HB2	2.20	0.42
12:CL:28:LYS:O	12:CL:30:ALA:N	2.53	0.42
18:CR:31:LEU:O	18:CR:32:ARG:HB2	2.19	0.42
18:CR:56:THR:OG1	18:CR:57:GLY:N	2.52	0.42
18:CR:71:LYS:O	18:CR:74:ARG:HB2	2.19	0.42
22:D0:43:THR:C	22:D0:45:PHE:N	2.73	0.42
27:D5:31:VAL:HG23	27:D5:32:PRO:CD	2.49	0.42
31:DA:53:A:H2'	31:DA:54:G:O4'	2.20	0.42
31:DA:118:A:H3'	31:DA:119:A:C5'	2.49	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:151:C:C2	31:DA:176:G:N2	2.88	0.42
31:DA:384:U:C5	31:DA:385:C:H5	2.37	0.42
31:DA:475:U:C5	31:DA:481:G:O6	2.73	0.42
31:DA:535:C:C2	31:DA:559:G:C2	3.07	0.42
31:DA:557:U:O2'	31:DA:558:G:C5'	2.67	0.42
31:DA:589:C:H2'	31:DA:590:A:C8	2.55	0.42
31:DA:633:A:N3	31:DA:2403:C:H4'	2.34	0.42
31:DA:861:A:H2'	31:DA:862:G:O4'	2.20	0.42
31:DA:999:U:O2'	31:DA:1000:A:H5'	2.20	0.42
31:DA:1027:A:C6	31:DA:1126:A:C5	3.08	0.42
31:DA:1180:C:C4	31:DA:1181:C:C4	3.08	0.42
31:DA:1266:G:O4'	48:DW:15:ARG:NH2	2.51	0.42
31:DA:1465:G:C6	31:DA:1466:G:N7	2.88	0.42
31:DA:1688:U:C2	31:DA:1700:A:H5''	2.54	0.42
31:DA:1804:C:O5'	31:DA:1804:C:H6	2.03	0.42
31:DA:1858:G:H8	31:DA:1858:G:OP2	2.01	0.42
31:DA:1963:U:H3'	31:DA:1963:U:P	2.60	0.42
31:DA:2517:C:C2	31:DA:2542:A:N6	2.87	0.42
31:DA:2686:G:H3'	31:DA:2687:U:C6	2.55	0.42
31:DA:2830:G:N3	31:DA:2883:A:H2	2.17	0.42
32:DB:15:A:H2'	32:DB:16:G:OP1	2.19	0.42
32:DB:59:A:C4	32:DB:60:C:C6	3.08	0.42
33:DD:75:ILE:HG21	33:DD:99:ASP:HB2	2.01	0.42
33:DD:136:ILE:CG2	33:DD:140:THR:OG1	2.67	0.42
33:DD:148:GLU:C	33:DD:189:CYS:SG	2.98	0.42
33:DD:246:PRO:HG2	33:DD:255:LYS:HG2	2.00	0.42
34:DE:46:ALA:HA	34:DE:82:ARG:O	2.20	0.42
34:DE:67:PHE:HD2	34:DE:68:ALA:N	2.18	0.42
34:DE:132:HIS:CG	34:DE:135:HIS:CE1	3.04	0.42
35:DF:37:VAL:HA	35:DF:40:GLN:HG3	2.01	0.42
35:DF:84:VAL:HB	35:DF:85:GLY:H	1.40	0.42
37:DH:155:SER:C	37:DH:157:TYR:N	2.73	0.42
38:DI:130:TYR:O	38:DI:131:LYS:HB2	2.19	0.42
42:DQ:63:LYS:HD2	51:DZ:175:VAL:HG21	2.01	0.42
43:DR:60:LEU:O	43:DR:60:LEU:HG	2.20	0.42
45:DT:83:ILE:HG13	45:DT:84:GLN:HG2	2.02	0.42
46:DU:68:ALA:CB	46:DU:99:ALA:HB1	2.50	0.42
48:DW:29:LEU:HD11	48:DW:51:LEU:HD11	2.00	0.42
48:DW:64:MET:O	48:DW:65:LEU:HB2	2.20	0.42
48:DW:73:ALA:C	48:DW:106:ILE:HD13	2.39	0.42
51:DZ:26:GLY:HA2	51:DZ:85:HIS:CD2	2.54	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:477:A:C2	1:AA:479:C:C5	3.07	0.42
1:AA:695:A:H2'	1:AA:696:A:C8	2.55	0.42
1:AA:713:G:C6	1:AA:714:G:C6	3.07	0.42
1:AA:779:C:H2'	1:AA:780:A:H5'	2.01	0.42
1:AA:780:A:H1'	1:AA:803:G:N2	2.34	0.42
1:AA:990:C:H2'	1:AA:991:U:C6	2.55	0.42
1:AA:1074:G:C2	1:AA:1075:C:C2	3.07	0.42
1:AA:1118:C:H1'	1:AA:1179:A:C5	2.55	0.42
1:AA:1266:G:N2	1:AA:1270:C:C2	2.87	0.42
1:AA:1367:C:O2	1:AA:1367:C:H2'	2.19	0.42
2:AB:200:ILE:O	2:AB:201:ILE:HD13	2.20	0.42
3:AC:165:THR:HG23	3:AC:165:THR:O	2.20	0.42
6:AF:98:LEU:HD13	6:AF:101:ALA:HA	2.00	0.42
7:AG:85:TYR:CD1	7:AG:154:TYR:CE1	3.05	0.42
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.55	0.42
9:AI:114:TYR:CD2	9:AI:114:TYR:O	2.73	0.42
15:AO:69:TYR:HA	15:AO:72:ARG:NH2	2.34	0.42
17:AQ:45:HIS:HB3	17:AQ:72:ARG:HG2	2.01	0.42
23:B1:18:ILE:HD12	23:B1:18:ILE:N	2.35	0.42
24:B2:47:ASN:N	24:B2:47:ASN:HD22	2.18	0.42
30:B8:6:THR:HG21	31:BA:243:U:OP1	2.19	0.42
30:B8:27:THR:HG1	31:BA:2361:A:P	2.43	0.42
31:BA:48:G:H4'	31:BA:52:A:O4'	2.19	0.42
31:BA:202:U:H2'	31:BA:203:C:O4'	2.19	0.42
31:BA:288:C:C2'	31:BA:289:A:O5'	2.68	0.42
31:BA:389:G:H1	41:BP:71:VAL:CB	2.32	0.42
31:BA:478:A:N6	31:BA:502:A:N6	2.68	0.42
31:BA:673:C:H5''	35:BF:81:PRO:HD2	2.02	0.42
31:BA:707:G:H2'	31:BA:708:C:O4'	2.20	0.42
31:BA:775:G:O2'	31:BA:794:G:N7	2.49	0.42
31:BA:856:C:H2'	31:BA:857:C:C6	2.55	0.42
31:BA:910:A:C6	31:BA:911:A:C6	3.08	0.42
31:BA:952:G:H2'	31:BA:953:A:O5'	2.20	0.42
31:BA:1107:G:N7	31:BA:1108:U:C5	2.87	0.42
31:BA:1180:C:C4	31:BA:1181:C:C4	3.07	0.42
31:BA:1588:C:O2	31:BA:1588:C:H2'	2.19	0.42
31:BA:1884:A:C4	31:BA:1885:A:C8	3.08	0.42
31:BA:1963:U:H3'	31:BA:1963:U:P	2.60	0.42
31:BA:1992:G:C2'	31:BA:1993:U:OP2	2.68	0.42
31:BA:2048:G:H1'	31:BA:2823:A:N6	2.35	0.42
31:BA:2276:G:OP2	42:BQ:84:GLY:N	2.51	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2338:G:O2'	31:BA:2339:G:H5'	2.20	0.42
31:BA:2590:A:H2'	31:BA:2591:C:H6	1.85	0.42
31:BA:2645:G:H3'	31:BA:2646:C:C5'	2.48	0.42
31:BA:2652:C:C2'	31:BA:2653:U:C5'	2.89	0.42
31:BA:2674:G:H5''	40:BO:26:LYS:CE	2.50	0.42
31:BA:2870:C:C5	31:BA:2871:C:C5	3.08	0.42
32:BB:51:G:C5'	32:BB:52:A:OP2	2.63	0.42
33:BD:53:PHE:HA	33:BD:218:ARG:HB2	2.01	0.42
33:BD:166:GLN:CA	33:BD:166:GLN:HE21	2.33	0.42
34:BE:96:PHE:CD2	34:BE:102:VAL:HG11	2.55	0.42
34:BE:129:HIS:O	34:BE:130:GLY:O	2.37	0.42
36:BG:139:LEU:HD23	36:BG:149:VAL:HG21	2.01	0.42
37:BH:45:VAL:CG1	37:BH:46:GLU:N	2.81	0.42
37:BH:52:VAL:HG13	37:BH:52:VAL:O	2.19	0.42
38:BI:110:ASP:OD2	38:BI:113:ARG:HG3	2.20	0.42
38:BI:144:VAL:O	38:BI:145:VAL:CB	2.67	0.42
39:BN:43:THR:O	39:BN:46:VAL:HG12	2.19	0.42
39:BN:55:VAL:CG1	39:BN:126:PRO:HA	2.43	0.42
40:BO:13:ASN:HD22	40:BO:97:ARG:HB2	1.85	0.42
40:BO:20:MET:HE3	40:BO:44:LYS:CE	2.50	0.42
40:BO:39:ILE:HG13	40:BO:40:VAL:O	2.20	0.42
40:BO:63:VAL:HG23	40:BO:64:ARG:HG3	2.01	0.42
41:BP:13:ASN:O	41:BP:15:ARG:N	2.53	0.42
41:BP:143:GLY:C	41:BP:145:PRO:CD	2.77	0.42
42:BQ:7:MET:O	42:BQ:10:ARG:CZ	2.68	0.42
42:BQ:16:ARG:C	42:BQ:17:LEU:HD23	2.38	0.42
45:BT:50:ILE:HA	45:BT:99:LEU:CD1	2.50	0.42
47:BV:16:PRO:HA	47:BV:98:GLU:OE2	2.20	0.42
47:BV:62:LEU:HA	47:BV:99:ILE:HG12	2.01	0.42
49:BX:8:ILE:CD1	49:BX:43:VAL:HA	2.49	0.42
51:BZ:28:MET:O	51:BZ:34:ASN:HA	2.20	0.42
51:BZ:119:GLU:OE2	51:BZ:122:ARG:HB2	2.20	0.42
1:CA:124:G:H1	1:CA:237:C:N4	2.17	0.42
1:CA:437:U:C2'	1:CA:438:G:C5'	2.90	0.42
1:CA:579:G:C4	1:CA:580:U:C5	3.08	0.42
1:CA:625:G:C6	1:CA:626:U:C4	3.08	0.42
1:CA:663:A:H2'	1:CA:664:G:H5'	2.01	0.42
1:CA:701:C:H1'	1:CA:703:G:C6	2.55	0.42
1:CA:707:C:HO2'	1:CA:708:C:H5'	1.84	0.42
1:CA:950:U:H5''	13:CM:102:ARG:HH22	1.84	0.42
1:CA:993:G:O2'	1:CA:994:A:N7	2.53	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1250:A:H2'	1:CA:1251:A:O4'	2.20	0.42
1:CA:1416:G:C2	1:CA:1485:U:O2	2.73	0.42
1:CA:1463:C:H2'	1:CA:1464:G:O4'	2.20	0.42
5:CE:12:LEU:O	5:CE:13:ILE:HD12	2.20	0.42
7:CG:32:ARG:O	7:CG:33:ASP:CB	2.68	0.42
7:CG:54:THR:HG1	7:CG:56:GLN:HB2	1.82	0.42
8:CH:12:ARG:NH1	8:CH:58:TYR:HE2	2.15	0.42
8:CH:112:LEU:CD2	8:CH:133:LEU:HD23	2.50	0.42
11:CK:32:ILE:HD11	11:CK:68:ALA:CB	2.42	0.42
11:CK:83:ILE:HG12	11:CK:109:VAL:HB	2.02	0.42
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.34	0.42
15:CO:54:ARG:HG2	15:CO:58:MET:HE1	2.01	0.42
18:CR:40:LEU:C	18:CR:42:ARG:N	2.73	0.42
22:D0:53:MET:HB2	22:D0:59:LEU:CD2	2.46	0.42
29:D7:5:TRP:CH2	31:DA:686:G:C5	3.07	0.42
29:D7:21:ARG:O	29:D7:27:GLY:HA3	2.20	0.42
30:D8:32:LEU:CD2	30:D8:35:GLN:O	2.67	0.42
30:D8:35:GLN:HG2	31:DA:2420:C:OP1	2.20	0.42
30:D8:39:LYS:CG	30:D8:42:ARG:NH1	2.83	0.42
31:DA:11:G:H2'	31:DA:12:U:H5'	2.00	0.42
31:DA:60:G:C2	31:DA:74:A:C5	3.08	0.42
31:DA:124:G:OP1	31:DA:1376:C:O2'	2.24	0.42
31:DA:193:U:C2'	31:DA:194:G:H5'	2.49	0.42
31:DA:692:C:O2'	31:DA:693:C:H5'	2.20	0.42
31:DA:850:C:O2	31:DA:850:C:H2'	2.20	0.42
31:DA:862:G:H8	31:DA:862:G:O5'	2.03	0.42
31:DA:892:G:C5	31:DA:893:C:C5	3.08	0.42
31:DA:942:G:H2'	31:DA:943:U:C5'	2.50	0.42
31:DA:1021:A:N6	31:DA:1141:U:H3	2.15	0.42
31:DA:1257:C:H5'	35:DF:75:HIS:CE1	2.54	0.42
31:DA:1289:C:O2	31:DA:1289:C:H2'	2.19	0.42
31:DA:1374:G:H2'	31:DA:1375:C:O4'	2.18	0.42
31:DA:1386:C:OP2	31:DA:1396:U:C5	2.72	0.42
31:DA:1429:G:N3	31:DA:1568:G:C2	2.88	0.42
31:DA:1478:G:O2'	31:DA:1479:G:H5'	2.19	0.42
31:DA:1692:U:O2'	31:DA:1693:U:H2'	2.20	0.42
31:DA:1990:C:H2'	31:DA:1991:U:O4'	2.19	0.42
31:DA:1995:U:N3	31:DA:1996:C:C4	2.88	0.42
31:DA:2085:C:H2'	31:DA:2086:U:O4'	2.20	0.42
31:DA:2203:U:H1'	33:DD:151:LYS:CE	2.50	0.42
31:DA:2319:G:N3	31:DA:2320:A:C2	2.88	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2391:G:O2'	31:DA:2422:A:N7	2.53	0.42
31:DA:2556:C:H2'	31:DA:2557:G:H5'	2.02	0.42
31:DA:2564:A:C6	31:DA:2565:A:N1	2.88	0.42
31:DA:2681:C:O2	31:DA:2681:C:C2'	2.67	0.42
32:DB:69:G:C5	32:DB:70:C:C5	3.08	0.42
32:DB:93:G:N2	32:DB:94:C:C2	2.87	0.42
33:DD:70:TRP:CE3	33:DD:150:LYS:HE3	2.55	0.42
33:DD:89:SER:CB	33:DD:158:ALA:O	2.68	0.42
34:DE:167:VAL:C	34:DE:168:MET:HG2	2.37	0.42
35:DF:45:ARG:HD3	35:DF:97:TYR:CD1	2.54	0.42
36:DG:124:SER:O	36:DG:125:PHE:C	2.58	0.42
38:DI:88:ILE:HD11	38:DI:122:GLU:N	2.34	0.42
39:DN:121:LYS:HG3	39:DN:123:TYR:CZ	2.55	0.42
40:DO:27:GLY:H	40:DO:30:ALA:HB2	1.85	0.42
43:DR:18:LEU:O	43:DR:22:ARG:HG3	2.19	0.42
45:DT:27:THR:OG1	45:DT:28:VAL:N	2.51	0.42
45:DT:112:ARG:HD3	45:DT:112:ARG:C	2.41	0.42
47:DV:2:PHE:HE1	47:DV:13:ARG:NE	2.16	0.42
48:DW:47:VAL:CA	48:DW:50:VAL:HG12	2.50	0.42
48:DW:96:ILE:HD13	48:DW:96:ILE:HG21	1.75	0.42
49:DX:78:LYS:CD	49:DX:78:LYS:H	2.31	0.42
50:DY:2:ARG:N	50:DY:4:LYS:HE2	2.35	0.42
51:DZ:53:ILE:H	51:DZ:53:ILE:HG12	1.59	0.42
51:DZ:128:VAL:CG1	51:DZ:133:ILE:HG12	2.49	0.42
1:AA:189:G:C6	1:AA:189(L):G:C2	3.08	0.41
1:AA:189(F):U:C4	17:AQ:72:ARG:NH2	2.88	0.41
1:AA:349:A:C2	1:AA:350:G:C4	3.08	0.41
1:AA:457:C:H6	1:AA:457:C:O5'	2.02	0.41
1:AA:689:C:H2'	1:AA:690:G:O4'	2.20	0.41
1:AA:759:A:C2'	1:AA:760:G:H5'	2.50	0.41
1:AA:763:G:C5	1:AA:764:C:C5	3.08	0.41
1:AA:832:C:O2'	1:AA:833:U:O5'	2.33	0.41
1:AA:874:G:H2'	1:AA:875:C:C6	2.55	0.41
1:AA:1029:C:H2'	1:AA:1030:C:C5	2.55	0.41
1:AA:1307:U:C4	1:AA:1308:U:C4	3.08	0.41
1:AA:1383:C:H2'	1:AA:1384:C:C6	2.55	0.41
2:AB:17:PHE:O	2:AB:18:GLY:O	2.38	0.41
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	2.02	0.41
4:AD:161:ASN:O	4:AD:165:MET:HB2	2.20	0.41
7:AG:50:ILE:O	7:AG:54:THR:HG23	2.20	0.41
7:AG:72:ARG:HG3	7:AG:73:MET:HG3	2.01	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:78:TYR:O	15:AO:79:ARG:C	2.57	0.41
16:AP:21:VAL:O	16:AP:33:ILE:HG12	2.20	0.41
23:B1:10:LYS:HB2	23:B1:14:VAL:C	2.41	0.41
23:B1:44:PRO:HG2	23:B1:44:PRO:O	2.20	0.41
25:B3:26:LEU:HA	25:B3:26:LEU:HD23	1.65	0.41
25:B3:31:LEU:HD22	25:B3:32:GLN:H	1.84	0.41
25:B3:58:VAL:HG12	25:B3:59:VAL:N	2.35	0.41
27:B5:55:ARG:HD3	27:B5:55:ARG:HA	1.81	0.41
28:B6:34:LEU:HD22	28:B6:50:ARG:HH12	1.84	0.41
29:B7:5:TRP:CZ3	31:BA:464:U:H4'	2.55	0.41
30:B8:36:LYS:HE2	30:B8:36:LYS:HB2	1.78	0.41
31:BA:30:G:C6	31:BA:31:C:C4	3.08	0.41
31:BA:58:G:H5''	49:BX:72:LYS:HB2	2.02	0.41
31:BA:110:G:N2	31:BA:111:A:H1'	2.35	0.41
31:BA:184:C:O4'	31:BA:216:A:H2	2.02	0.41
31:BA:437:G:H2'	31:BA:438:G:O4'	2.21	0.41
31:BA:478:A:N6	31:BA:480:A:C6	2.88	0.41
31:BA:493:G:H2'	31:BA:494:G:O4'	2.20	0.41
31:BA:662:G:H2'	31:BA:663:G:H8	1.85	0.41
31:BA:754:C:C2	31:BA:755:C:C5	3.08	0.41
31:BA:945:A:C5	31:BA:2448:A:N3	2.88	0.41
31:BA:1159:U:O2'	31:BA:1160:G:H5'	2.20	0.41
31:BA:1215:G:H2'	31:BA:1216:G:H5'	2.01	0.41
31:BA:1278:A:P	43:BR:36:THR:HG22	2.56	0.41
31:BA:1321:A:C6	31:BA:1322:A:C5	3.08	0.41
31:BA:1475:G:C2	31:BA:1517:G:C2	3.08	0.41
31:BA:1506:C:O2	31:BA:1506:C:C2'	2.68	0.41
31:BA:2069:G:O2'	31:BA:2070:G:H5'	2.20	0.41
31:BA:2078:C:H2'	31:BA:2079:U:C6	2.55	0.41
31:BA:2245:U:O2	31:BA:2436:G:C8	2.73	0.41
31:BA:2415:G:H4'	41:BP:66:GLY:CA	2.49	0.41
31:BA:2564:A:C6	31:BA:2565:A:C6	3.08	0.41
31:BA:2658:C:H5'	31:BA:2659:G:OP2	2.20	0.41
31:BA:2709:G:H2'	31:BA:2710:C:C6	2.55	0.41
31:BA:2716:U:O2'	31:BA:2717:G:H5'	2.20	0.41
31:BA:2840:C:H5''	43:BR:53:HIS:CD2	2.54	0.41
32:BB:19:G:C6	32:BB:20:C:N4	2.88	0.41
32:BB:21:G:O6	32:BB:63:G:C2	2.73	0.41
33:BD:9:TYR:O	33:BD:10:THR:HG22	2.20	0.41
33:BD:44:ASN:HB3	33:BD:49:ILE:N	2.35	0.41
35:BF:5:ALA:O	35:BF:6:VAL:CG2	2.68	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:57:ARG:HB3	38:BI:57:ARG:CZ	2.50	0.41
40:BO:2:ILE:HD11	40:BO:82:ASN:CB	2.50	0.41
41:BP:23:PRO:HB3	41:BP:34:GLY:H	1.85	0.41
42:BQ:52:VAL:O	42:BQ:55:VAL:HG13	2.20	0.41
47:BV:62:LEU:CB	47:BV:98:GLU:HA	2.27	0.41
48:BW:64:MET:HE3	48:BW:64:MET:HB3	1.74	0.41
49:BX:9:LEU:HD12	49:BX:30:VAL:O	2.20	0.41
49:BX:47:PHE:O	49:BX:49:VAL:HG22	2.19	0.41
50:BY:62:GLU:HB3	50:BY:63:LYS:H	1.60	0.41
50:BY:95:LYS:CD	50:BY:101:LYS:H	2.33	0.41
51:BZ:50:GLN:O	51:BZ:51:ALA:C	2.55	0.41
1:CA:9:G:OP1	5:CE:122:GLU:N	2.44	0.41
1:CA:136:C:N4	1:CA:227:G:H1	2.16	0.41
1:CA:258:G:C2	1:CA:259:G:C5	3.08	0.41
1:CA:284:G:H2'	1:CA:285:G:H8	1.83	0.41
1:CA:430:A:H2'	1:CA:431:A:C5'	2.33	0.41
1:CA:487:A:H3'	1:CA:488:C:H6	1.84	0.41
1:CA:684:A:O4'	11:CK:38:ASN:OD1	2.37	0.41
1:CA:685:G:N2	1:CA:706:A:N6	2.68	0.41
1:CA:738:C:C2	1:CA:739:C:C5	3.08	0.41
1:CA:851:G:H2'	1:CA:852:G:C8	2.55	0.41
1:CA:926:G:C2	1:CA:1505:G:C8	3.08	0.41
1:CA:957:U:C2'	1:CA:959:A:N7	2.83	0.41
1:CA:978:A:C5'	1:CA:979:C:OP2	2.68	0.41
1:CA:1106:G:H2'	1:CA:1107:C:C6	2.54	0.41
1:CA:1151:A:O2'	1:CA:1152:A:C8	2.69	0.41
1:CA:1267:C:N3	1:CA:1327:C:H4'	2.34	0.41
2:CB:172:ILE:H	2:CB:172:ILE:CD1	2.15	0.41
4:CD:19:LEU:O	4:CD:26:CYS:SG	2.78	0.41
5:CE:18:ARG:HE	5:CE:25:ARG:HB3	1.85	0.41
6:CF:77:ARG:O	6:CF:78:GLU:C	2.57	0.41
8:CH:5:PRO:HB2	8:CH:32:LYS:HE2	2.01	0.41
9:CI:40:LEU:HD11	9:CI:70:LYS:HG2	2.02	0.41
11:CK:32:ILE:CD1	11:CK:68:ALA:HB1	2.44	0.41
15:CO:78:TYR:O	15:CO:79:ARG:C	2.58	0.41
16:CP:12:LYS:C	16:CP:14:ASN:N	2.74	0.41
18:CR:29:PHE:CE1	18:CR:31:LEU:HD22	2.54	0.41
22:D0:71:ASP:C	22:D0:72:ARG:HG2	2.39	0.41
25:D3:10:LYS:NZ	25:D3:15:TYR:OH	2.42	0.41
27:D5:48:GLU:O	27:D5:49:CYS:C	2.59	0.41
28:D6:42:TRP:HZ2	31:DA:642:G:O3'	2.03	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:29:LYS:O	30:D8:30:ARG:C	2.58	0.41
31:DA:321:G:H5'	35:DF:134:GLY:O	2.20	0.41
31:DA:429:A:C5	31:DA:430:G:C6	3.08	0.41
31:DA:638:G:C6	31:DA:639:U:C4	3.08	0.41
31:DA:676:A:C2	31:DA:802:A:N6	2.72	0.41
31:DA:733:G:O6	31:DA:761:A:C8	2.73	0.41
31:DA:817:C:H3'	31:DA:818:G:H8	1.85	0.41
31:DA:947:G:H2'	31:DA:948:G:C8	2.55	0.41
31:DA:1190:G:C5'	41:DP:35:HIS:HA	2.50	0.41
31:DA:1452:A:O2'	31:DA:1453:U:H2'	2.19	0.41
31:DA:1820:U:O2'	33:DD:159:ALA:HB3	2.20	0.41
31:DA:2027:G:N2	31:DA:2037:G:C4	2.88	0.41
31:DA:2078:C:H2'	31:DA:2079:U:O4'	2.20	0.41
31:DA:2305:A:H2'	31:DA:2306:C:O4'	2.19	0.41
31:DA:2305:A:H5'	36:DG:156:ASP:HB3	2.02	0.41
31:DA:2313:C:H6	31:DA:2313:C:H3'	1.84	0.41
31:DA:2601:C:H2'	31:DA:2603:G:C8	2.55	0.41
31:DA:2689:U:OP1	31:DA:2719:G:N2	2.50	0.41
31:DA:2820:A:O4'	43:DR:5:LYS:HG3	2.19	0.41
31:DA:2884:U:C5	31:DA:2885:C:C5	3.08	0.41
32:DB:9:G:N2	32:DB:113:G:C4	2.88	0.41
32:DB:13:A:N6	32:DB:70:C:H5'	2.34	0.41
32:DB:110:G:C4	32:DB:111:G:C8	3.08	0.41
33:DD:136:ILE:HD12	33:DD:136:ILE:N	2.35	0.41
33:DD:146:GLU:HB2	33:DD:189:CYS:HB3	2.02	0.41
33:DD:159:ALA:O	33:DD:161:THR:N	2.53	0.41
33:DD:164:GLN:CB	33:DD:166:GLN:HE22	2.32	0.41
35:DF:31:HIS:O	35:DF:34:TRP:N	2.53	0.41
35:DF:129:PHE:CE2	35:DF:163:VAL:HG21	2.55	0.41
36:DG:98:ARG:N	36:DG:98:ARG:HD3	2.35	0.41
37:DH:89:ILE:HD12	37:DH:129:THR:O	2.19	0.41
39:DN:78:TYR:CD1	39:DN:79:PRO:HD3	2.55	0.41
41:DP:97:PRO:HD3	41:DP:126:VAL:C	2.39	0.41
42:DQ:139:GLU:O	51:DZ:99:TYR:CD2	2.73	0.41
42:DQ:141:GLN:OXT	51:DZ:54:HIS:HA	2.19	0.41
43:DR:63:ARG:HA	43:DR:80:PHE:CZ	2.55	0.41
44:DS:19:LYS:O	44:DS:19:LYS:CG	2.68	0.41
46:DU:51:LYS:O	46:DU:52:ARG:C	2.58	0.41
46:DU:55:ARG:H	46:DU:55:ARG:HG2	1.55	0.41
47:DV:27:ALA:CB	47:DV:64:HIS:CD2	3.03	0.41
48:DW:72:LYS:HB3	48:DW:106:ILE:HG12	2.02	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:40:LYS:O	49:DX:43:VAL:N	2.53	0.41
51:DZ:115:GLY:CA	51:DZ:177:PRO:HD3	2.50	0.41
51:DZ:148:ASP:HB2	51:DZ:149:SER:H	1.69	0.41
51:DZ:166:SER:OG	51:DZ:168:GLU:N	2.53	0.41
1:AA:102:G:C6	1:AA:103:C:N4	2.87	0.41
1:AA:241:C:H2'	1:AA:242:C:C6	2.54	0.41
1:AA:390:C:H6	1:AA:390:C:H3'	1.85	0.41
1:AA:511:C:O3'	4:AD:43:HIS:CE1	2.73	0.41
1:AA:625:G:C6	1:AA:626:U:C4	3.08	0.41
1:AA:642:A:C4	8:AH:114:THR:O	2.73	0.41
1:AA:678:U:H2'	1:AA:679:C:H6	1.84	0.41
1:AA:718:G:H1	18:AR:74:ARG:HH22	1.67	0.41
1:AA:814:A:C8	1:AA:816:A:C8	3.08	0.41
1:AA:864:A:H3'	1:AA:865:A:C8	2.55	0.41
1:AA:939:G:H2'	1:AA:940:C:C6	2.55	0.41
1:AA:1410:G:C4	1:AA:1491:G:N2	2.88	0.41
1:AA:1463:C:H2'	1:AA:1464:G:O4'	2.20	0.41
2:AB:53:ARG:NH2	2:AB:198:ASP:O	2.52	0.41
2:AB:70:PHE:HA	2:AB:163:PHE:O	2.20	0.41
4:AD:10:ARG:C	4:AD:13:ARG:HB2	2.40	0.41
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.35	0.41
6:AF:48:LEU:HB2	6:AF:56:PRO:O	2.20	0.41
10:AJ:51:ARG:HE	10:AJ:61:GLU:HB2	1.85	0.41
13:AM:14:ARG:NH1	13:AM:42:ALA:HA	2.35	0.41
16:AP:22:THR:CG2	16:AP:32:TYR:HA	2.43	0.41
16:AP:76:GLN:O	16:AP:76:GLN:HG2	2.20	0.41
22:B0:43:THR:HG22	31:BA:2331:G:O2'	2.20	0.41
24:B2:32:LEU:HD12	24:B2:33:MET:O	2.20	0.41
25:B3:4:LEU:HA	25:B3:4:LEU:HD23	1.77	0.41
29:B7:40:TRP:CE3	31:BA:459:U:H5''	2.55	0.41
30:B8:4:MET:HB2	30:B8:4:MET:HE2	1.42	0.41
31:BA:108:U:C2	31:BA:109:G:C8	3.08	0.41
31:BA:447:A:N6	31:BA:454:A:C4	2.87	0.41
31:BA:463:G:C6	31:BA:467:G:C6	3.08	0.41
31:BA:470:A:H2'	31:BA:471:A:O4'	2.19	0.41
31:BA:476:G:N1	31:BA:479:A:OP2	2.53	0.41
31:BA:614(C):A:N6	35:BF:177:ALA:HB3	2.36	0.41
31:BA:676:A:H1'	31:BA:2443:C:O4'	2.20	0.41
31:BA:729:G:P	33:BD:208:LYS:NZ	2.93	0.41
31:BA:828:U:O2'	31:BA:829:A:H5'	2.20	0.41
31:BA:953:A:N1	31:BA:964:C:O2	2.54	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1300:U:H3'	31:BA:1301:A:C5'	2.50	0.41
31:BA:1465:G:C5	31:BA:1466:G:N7	2.88	0.41
31:BA:1528:A:H8	31:BA:1528(A):A:C4	2.38	0.41
31:BA:1650:G:H2'	31:BA:1651:G:O4'	2.21	0.41
31:BA:1670:C:C2	34:BE:129:HIS:HE1	2.37	0.41
31:BA:1824:G:O2'	31:BA:1825:A:H5'	2.19	0.41
31:BA:1831:G:H2'	31:BA:1832:C:H6	1.84	0.41
31:BA:1996:C:P	40:BO:31:LYS:NZ	2.94	0.41
31:BA:2101:G:O6	31:BA:2188:C:N4	2.48	0.41
31:BA:2291:U:H5''	31:BA:2380:C:C2'	2.49	0.41
31:BA:2296:U:H4'	31:BA:2297:C:OP1	2.20	0.41
31:BA:2297:C:N3	31:BA:2320:A:H8	2.18	0.41
31:BA:2304:G:H22	31:BA:2312:U:H3	1.68	0.41
31:BA:2397:G:H2'	31:BA:2398:U:H6	1.85	0.41
31:BA:2513:G:H2'	31:BA:2514:U:C6	2.55	0.41
31:BA:2516:G:C6	31:BA:2517:C:C4	3.08	0.41
31:BA:2529:G:H5''	31:BA:2530:A:H5''	2.02	0.41
31:BA:2578:G:OP2	31:BA:2578:G:H4'	2.20	0.41
31:BA:2713:A:C3'	31:BA:2714:G:C5'	2.98	0.41
32:BB:1:U:H5'	32:BB:2:C:OP2	2.20	0.41
34:BE:59:VAL:HG22	34:BE:63:LEU:CA	2.40	0.41
35:BF:126:VAL:HG11	35:BF:142:TRP:HH2	1.84	0.41
35:BF:129:PHE:CD2	35:BF:163:VAL:HG21	2.54	0.41
36:BG:32:PRO:CB	36:BG:163:ALA:HB2	2.46	0.41
36:BG:63:ILE:HA	36:BG:143:GLU:CD	2.40	0.41
39:BN:35:ARG:HE	39:BN:35:ARG:HB3	1.39	0.41
39:BN:74:ARG:NH2	39:BN:101:HIS:HB3	2.35	0.41
39:BN:95:PRO:C	39:BN:97:ARG:N	2.74	0.41
40:BO:10:VAL:CG2	40:BO:17:ARG:HA	2.51	0.41
41:BP:84:ASN:HB3	41:BP:86:LYS:HB3	2.01	0.41
44:BS:56:LEU:CD2	44:BS:57:LYS:N	2.82	0.41
46:BU:68:ALA:O	46:BU:71:GLN:CB	2.68	0.41
47:BV:66:ARG:HD3	47:BV:94:LEU:HA	2.02	0.41
48:BW:36:LEU:HD13	48:BW:48:ALA:N	2.35	0.41
48:BW:41:LYS:HD2	48:BW:41:LYS:HA	1.60	0.41
1:CA:159:G:O2'	1:CA:160:A:C8	2.60	0.41
1:CA:327:A:C6	1:CA:329:A:C5	3.08	0.41
1:CA:398:C:P	1:CA:398:C:H6	2.43	0.41
1:CA:688:G:C4	1:CA:689:C:C5	3.08	0.41
1:CA:931:C:N3	1:CA:1387:G:C6	2.88	0.41
1:CA:1030(C):G:H2'	1:CA:1030(D):A:H8	1.85	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1067:A:N1	1:CA:1108:G:O2'	2.45	0.41
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.20	0.41
1:CA:1277:C:C2'	1:CA:1278:U:H5'	2.50	0.41
1:CA:1410:G:C6	1:CA:1411:C:N4	2.88	0.41
2:CB:179:LYS:HB2	2:CB:179:LYS:NZ	2.35	0.41
7:CG:13:GLN:O	7:CG:24:THR:HG21	2.20	0.41
7:CG:47:CYS:HA	7:CG:50:ILE:CG1	2.50	0.41
10:CJ:52:GLY:C	10:CJ:54:PHE:H	2.22	0.41
10:CJ:78:ASN:HB3	10:CJ:80:LYS:H	1.85	0.41
10:CJ:82:ILE:HD13	10:CJ:82:ILE:HA	1.95	0.41
12:CL:41:ARG:CG	12:CL:42:THR:N	2.82	0.41
13:CM:23:TYR:HE1	13:CM:70:LEU:HD22	1.84	0.41
15:CO:77:ARG:HA	15:CO:80:ALA:HB3	2.01	0.41
22:D0:70:GLN:O	22:D0:78:TYR:N	2.49	0.41
22:D0:74:ARG:HH22	32:DB:13:A:H8	1.64	0.41
27:D5:12:SER:O	27:D5:13:LYS:C	2.58	0.41
29:D7:9:ARG:NH1	31:DA:1309:G:H3'	2.36	0.41
29:D7:34:ARG:NH1	29:D7:39:ARG:CG	2.83	0.41
30:D8:2:PRO:O	30:D8:3:LYS:C	2.59	0.41
31:DA:68:G:C4	31:DA:69:C:C6	3.09	0.41
31:DA:85:G:C5	31:DA:98:G:C2	3.08	0.41
31:DA:185:U:H2'	31:DA:186:G:O4'	2.19	0.41
31:DA:322:A:H3'	35:DF:169:ASN:HD21	1.83	0.41
31:DA:470:A:C2'	31:DA:471:A:H5'	2.50	0.41
31:DA:508:G:H5''	31:DA:509:C:OP1	2.20	0.41
31:DA:693:C:H2'	31:DA:694:U:O5'	2.20	0.41
31:DA:695:G:OP1	31:DA:1380:G:C4'	2.65	0.41
31:DA:764:A:N1	31:DA:1789:A:O2'	2.49	0.41
31:DA:863:A:H2	31:DA:914:C:N4	2.17	0.41
31:DA:1005:C:OP2	31:DA:1011:G:H2'	2.19	0.41
31:DA:1210:A:C4'	31:DA:1211:U:OP2	2.67	0.41
31:DA:1252:G:O6	46:DU:36:ARG:HD2	2.20	0.41
31:DA:1272:A:H3'	31:DA:1273:U:H5''	2.02	0.41
31:DA:1446:C:C2	31:DA:1466:G:C2	3.08	0.41
31:DA:1509:C:OP1	31:DA:1509:C:H4'	2.20	0.41
31:DA:1511:C:H2'	31:DA:1512:U:C6	2.55	0.41
31:DA:1579:A:C6	31:DA:1580:A:C6	3.08	0.41
31:DA:2074:U:N3	31:DA:2075:U:C4	2.88	0.41
31:DA:2569:G:C2	31:DA:2570:G:C8	3.09	0.41
31:DA:2679:A:H2'	31:DA:2680:C:O4'	2.20	0.41
31:DA:2687:U:C4	31:DA:2688:U:C4	3.09	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2718:G:C6	31:DA:2719:G:C5	3.08	0.41
31:DA:2773:C:C2	31:DA:2774:C:C5	3.08	0.41
33:DD:35:LYS:HG2	33:DD:64:ILE:CA	2.51	0.41
33:DD:70:TRP:CD2	33:DD:150:LYS:HE2	2.55	0.41
33:DD:93:ALA:HB3	33:DD:105:ILE:HG23	2.02	0.41
33:DD:157:ARG:HA	33:DD:196:VAL:HG21	2.02	0.41
34:DE:11:MET:O	34:DE:12:THR:HG23	2.20	0.41
35:DF:36:VAL:HG11	35:DF:183:VAL:HG11	2.01	0.41
36:DG:11:TYR:HA	36:DG:15:VAL:HB	2.02	0.41
36:DG:54:GLU:O	36:DG:57:ALA:HB3	2.19	0.41
36:DG:96:ARG:CG	36:DG:97:ASP:N	2.82	0.41
37:DH:149:ARG:HA	37:DH:162:ILE:HD12	2.01	0.41
38:DI:4:ILE:O	38:DI:5:LEU:C	2.58	0.41
38:DI:4:ILE:O	38:DI:6:LEU:HD23	2.20	0.41
40:DO:107:ARG:HH12	45:DT:35:LYS:CE	2.33	0.41
41:DP:30:THR:O	41:DP:31:ALA:C	2.57	0.41
41:DP:84:ASN:C	41:DP:86:LYS:N	2.74	0.41
41:DP:111:ARG:HG3	41:DP:128:HIS:CG	2.55	0.41
42:DQ:44:ALA:O	42:DQ:45:GLN:C	2.58	0.41
43:DR:61:HIS:O	43:DR:62:ALA:C	2.59	0.41
44:DS:63:THR:HA	44:DS:66:ALA:CB	2.40	0.41
45:DT:45:PHE:CE2	45:DT:63:VAL:CG2	3.03	0.41
45:DT:77:PRO:O	45:DT:78:LEU:CB	2.68	0.41
46:DU:36:ARG:NH1	46:DU:36:ARG:HG3	2.35	0.41
47:DV:46:VAL:O	47:DV:47:VAL:HB	2.20	0.41
50:DY:28:LYS:CD	50:DY:28:LYS:N	2.71	0.41
50:DY:68:HIS:N	50:DY:71:LYS:HZ3	2.17	0.41
1:AA:64:G:H5'	1:AA:66:G:OP1	2.20	0.41
1:AA:84:U:H5	1:AA:88:A:C5	2.39	0.41
1:AA:189(K):U:H2'	1:AA:189(L):G:H8	1.82	0.41
1:AA:511:C:H1'	4:AD:43:HIS:HE2	1.85	0.41
1:AA:542:G:P	4:AD:10:ARG:HH21	2.43	0.41
1:AA:578:C:C1'	1:AA:729:A:H1'	2.49	0.41
1:AA:909:A:H2'	1:AA:910:C:O4'	2.20	0.41
1:AA:944:G:N2	1:AA:1338:G:C8	2.88	0.41
1:AA:989:C:H1'	1:AA:1016:A:H2	1.84	0.41
1:AA:1125:U:O4	10:AJ:73:ASP:OD2	2.39	0.41
1:AA:1285:A:C4'	1:AA:1286:A:O5'	2.68	0.41
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.20	0.41
1:AA:1407:C:H6	1:AA:1407:C:O5'	2.02	0.41
2:AB:22:LYS:C	2:AB:24:TRP:H	2.24	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:100:ALA:O	3:AC:101:LEU:HB2	2.20	0.41
10:AJ:22:LYS:C	10:AJ:24:VAL:H	2.23	0.41
10:AJ:54:PHE:CZ	10:AJ:55:LYS:CE	3.04	0.41
10:AJ:78:ASN:HB3	10:AJ:80:LYS:H	1.85	0.41
24:B2:26:ARG:HD2	24:B2:26:ARG:HA	1.65	0.41
27:B5:52:TYR:O	27:B5:54:GLY:N	2.53	0.41
27:B5:56:LYS:HB2	27:B5:57:VAL:H	1.54	0.41
30:B8:41:ILE:CD1	30:B8:42:ARG:H	2.33	0.41
31:BA:28:A:O2'	31:BA:583:G:H5'	2.19	0.41
31:BA:130:C:H2'	31:BA:131:G:H5''	2.02	0.41
31:BA:271(H):G:C6	31:BA:271(Q):G:N1	2.88	0.41
31:BA:533:G:C6	31:BA:534:U:N3	2.88	0.41
31:BA:578:A:H5''	31:BA:579:G:OP2	2.20	0.41
31:BA:745:G:H2'	31:BA:746:A:H5'	2.01	0.41
31:BA:792:G:H4'	31:BA:793:A:H5'	2.02	0.41
31:BA:829:A:N7	31:BA:2247:A:O2'	2.47	0.41
31:BA:999:U:H5''	31:BA:1154:G:O6	2.20	0.41
31:BA:1021:A:O2'	31:BA:1123:C:H5''	2.20	0.41
31:BA:1034:G:H2'	31:BA:1035:U:O4'	2.19	0.41
31:BA:1199:U:H2'	31:BA:1200:C:C6	2.55	0.41
31:BA:1248:G:O5'	35:BF:92:PRO:HD3	2.21	0.41
31:BA:1252:G:O6	46:BU:36:ARG:HD2	2.21	0.41
31:BA:1280:G:C5	31:BA:1281:G:N7	2.89	0.41
31:BA:1416:G:O2'	31:BA:1417:C:P	2.78	0.41
31:BA:1812:A:H2'	31:BA:1813:G:C8	2.55	0.41
31:BA:1900:A:C2	31:BA:1970:A:C4	3.08	0.41
31:BA:1932:A:H2'	31:BA:1933:G:H5'	2.02	0.41
31:BA:2094:G:H1'	31:BA:2198:A:H61	1.84	0.41
31:BA:2292:C:HO2'	31:BA:2293:C:H5'	1.82	0.41
31:BA:2485:G:H5''	42:BQ:46:GLN:HE21	1.86	0.41
31:BA:2494:G:C2'	31:BA:2495:G:O5'	2.68	0.41
31:BA:2533:A:H5''	31:BA:2665:A:O2'	2.20	0.41
31:BA:2536:G:H2'	31:BA:2537:U:O4'	2.20	0.41
32:BB:110:G:C2	32:BB:111:G:C5	3.08	0.41
32:BB:118:G:N2	32:BB:119:G:C8	2.88	0.41
33:BD:48:ARG:HG3	33:BD:48:ARG:HH11	1.85	0.41
33:BD:173:VAL:HG12	33:BD:185:VAL:O	2.20	0.41
34:BE:119:ARG:HG2	34:BE:160:TYR:HB2	2.03	0.41
39:BN:42:TRP:CD1	39:BN:43:THR:N	2.88	0.41
39:BN:115:ARG:HA	39:BN:118:LYS:CE	2.51	0.41
41:BP:16:ARG:NH1	41:BP:16:ARG:CG	2.57	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:111:ARG:HG3	41:BP:128:HIS:CG	2.54	0.41
43:BR:47:PHE:O	43:BR:51:LEU:HD12	2.19	0.41
46:BU:83:LEU:CD2	46:BU:88:ILE:HG12	2.49	0.41
49:BX:93:GLU:O	49:BX:95:LEU:N	2.54	0.41
50:BY:44:ILE:CG2	50:BY:45:VAL:N	2.81	0.41
50:BY:81:LYS:NZ	50:BY:97:ARG:HG3	2.35	0.41
1:CA:229:U:H2'	1:CA:230:G:H8	1.84	0.41
1:CA:265:G:O3'	17:CQ:66:SER:HA	2.20	0.41
1:CA:565:U:OP2	1:CA:566:G:O2'	2.21	0.41
1:CA:615:C:C2	1:CA:616:G:C8	3.08	0.41
1:CA:617:G:C2'	1:CA:618:C:O5'	2.68	0.41
1:CA:737:A:C6	1:CA:738:C:N4	2.88	0.41
1:CA:757:U:H2'	1:CA:758:G:O4'	2.20	0.41
1:CA:989:C:H1'	1:CA:1016:A:H2	1.85	0.41
1:CA:990:C:H2'	1:CA:991:U:C6	2.55	0.41
1:CA:1313:U:OP2	19:CS:6:LYS:CB	2.68	0.41
2:CB:200:ILE:O	2:CB:201:ILE:HD13	2.20	0.41
7:CG:88:PRO:HD2	7:CG:151:TYR:O	2.21	0.41
8:CH:28:ALA:HB2	8:CH:58:TYR:O	2.20	0.41
9:CI:45:ALA:O	9:CI:78:LYS:HE3	2.21	0.41
10:CJ:5:ARG:HG3	10:CJ:73:ASP:OD1	2.21	0.41
10:CJ:53:PRO:HA	14:CN:42:ILE:HD12	2.02	0.41
11:CK:95:ILE:HG23	11:CK:108:ILE:CD1	2.50	0.41
12:CL:50:SER:O	12:CL:51:ALA:CB	2.67	0.41
15:CO:43:LEU:O	15:CO:45:VAL:N	2.52	0.41
16:CP:14:ASN:OD1	16:CP:16:HIS:CE1	2.72	0.41
22:D0:31:VAL:HB	22:D0:35:ASN:HD22	1.79	0.41
22:D0:46:LYS:NZ	22:D0:75:LEU:O	2.45	0.41
23:D1:39:LYS:HE3	31:DA:201:C:OP1	2.20	0.41
23:D1:53:VAL:HG12	23:D1:58:ILE:HB	2.03	0.41
23:D1:78:LYS:HE2	31:DA:271(R):G:H5''	2.02	0.41
27:D5:55:ARG:C	27:D5:56:LYS:CG	2.83	0.41
31:DA:109:G:H2'	31:DA:110:G:O4'	2.19	0.41
31:DA:199:A:C8	31:DA:2433:A:C6	3.09	0.41
31:DA:231:C:C2'	31:DA:232:G:H5'	2.50	0.41
31:DA:271(W):G:H8	31:DA:271(W):G:O5'	2.04	0.41
31:DA:272(E):G:C5	31:DA:272(F):C:C4	3.08	0.41
31:DA:346:A:C2'	31:DA:347:A:O5'	2.68	0.41
31:DA:447:A:C6	31:DA:454:A:C5	3.08	0.41
31:DA:466:A:N3	31:DA:683:C:H1'	2.35	0.41
31:DA:632:A:O2'	31:DA:2404:C:H5'	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:721:C:C2	31:DA:722:A:C8	3.07	0.41
31:DA:758:C:O2	31:DA:758:C:H2'	2.18	0.41
31:DA:783:A:H4'	31:DA:1779:U:O2	2.21	0.41
31:DA:838:C:H2'	31:DA:839:U:O4'	2.20	0.41
31:DA:904:C:O2'	31:DA:905:U:H5'	2.19	0.41
31:DA:971:C:OP1	31:DA:974:G:C8	2.73	0.41
31:DA:1155:A:C5	31:DA:1157:G:C5	3.08	0.41
31:DA:1165:U:H2'	31:DA:1166:C:C6	2.56	0.41
31:DA:1313:U:H2'	31:DA:1610:A:N1	2.34	0.41
31:DA:1387:C:C2	31:DA:1388:G:C8	3.07	0.41
31:DA:1506:C:O2	31:DA:1506:C:C2'	2.68	0.41
31:DA:1803:A:H2'	31:DA:1804:C:H5'	2.02	0.41
31:DA:2046:G:H2'	31:DA:2046:G:N3	2.35	0.41
31:DA:2102:U:O2	31:DA:2102:U:O4'	2.38	0.41
31:DA:2199:A:H5'	31:DA:2200:C:OP2	2.21	0.41
31:DA:2722:G:H5''	31:DA:2820:A:N7	2.35	0.41
33:DD:32:SER:OG	33:DD:33:LEU:N	2.54	0.41
33:DD:108:PRO:HG2	33:DD:111:LEU:HB2	2.02	0.41
33:DD:133:LEU:O	33:DD:134:ARG:C	2.58	0.41
36:DG:120:LEU:HG	36:DG:179:PRO:HG2	2.02	0.41
36:DG:144:ILE:HG23	36:DG:144:ILE:O	2.20	0.41
37:DH:41:MET:HG2	37:DH:55:PRO:HD3	2.00	0.41
38:DI:25:TYR:HD1	38:DI:30:LEU:HD11	1.85	0.41
38:DI:69:LYS:O	38:DI:69:LYS:HG2	2.21	0.41
40:DO:101:PRO:HD2	45:DT:70:VAL:HG23	2.02	0.41
43:DR:104:ARG:NH1	43:DR:107:ASP:OD1	2.53	0.41
44:DS:17:ARG:C	44:DS:19:LYS:N	2.74	0.41
46:DU:101:ARG:C	46:DU:102:GLU:HG2	2.41	0.41
47:DV:23:GLU:OE2	47:DV:91:TYR:OH	2.22	0.41
49:DX:31:HIS:ND1	49:DX:32:PRO:HD2	2.35	0.41
50:DY:8:LYS:HE3	50:DY:74:PRO:HD3	2.01	0.41
50:DY:47:LYS:NZ	50:DY:47:LYS:CB	2.81	0.41
1:AA:12:U:H4'	1:AA:526:C:H4'	2.02	0.41
1:AA:189(E):U:O2'	1:AA:189(F):U:C5'	2.68	0.41
1:AA:563:A:C8	1:AA:567:G:O4'	2.73	0.41
1:AA:571:U:O2	1:AA:918:A:H5'	2.21	0.41
1:AA:592:G:H2'	1:AA:593:G:H8	1.85	0.41
1:AA:617:G:C2	1:AA:618:C:C5	3.07	0.41
1:AA:711:G:N2	1:AA:712:A:C2	2.89	0.41
1:AA:737:A:C2'	1:AA:738:C:C6	2.89	0.41
1:AA:750:G:C2	1:AA:751:U:C6	3.09	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1104:G:C4	1:AA:1105:A:C8	3.08	0.41
1:AA:1117:G:O5'	9:AI:104:ARG:NH1	2.53	0.41
1:AA:1125:U:H4'	1:AA:1126:U:H5	1.85	0.41
2:AB:11:LEU:O	2:AB:16:HIS:CE1	2.73	0.41
3:AC:15:THR:HG23	3:AC:181:ASN:HA	2.01	0.41
4:AD:38:TYR:HD2	4:AD:45:GLN:HB3	1.85	0.41
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	2.20	0.41
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.88	0.41
6:AF:53:ALA:O	6:AF:54:LYS:HB2	2.20	0.41
6:AF:77:ARG:O	6:AF:78:GLU:C	2.59	0.41
8:AH:78:GLN:O	8:AH:81:HIS:CE1	2.74	0.41
8:AH:108:GLY:HA2	8:AH:138:TRP:HB3	2.02	0.41
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.85	0.41
16:AP:43:LYS:HB3	16:AP:48:TRP:CG	2.56	0.41
20:AT:73:HIS:HB3	20:AT:74:LYS:H	1.52	0.41
23:B1:87:PRO:O	23:B1:91:LYS:N	2.39	0.41
24:B2:32:LEU:HD13	24:B2:32:LEU:HA	1.86	0.41
28:B6:25:LYS:HE3	28:B6:27:LYS:HZ3	1.85	0.41
30:B8:30:ARG:HD3	30:B8:31:HIS:N	2.35	0.41
31:BA:443:A:C1'	31:BA:1201:C:O4'	2.64	0.41
31:BA:518:G:H2'	31:BA:519:U:H6	1.82	0.41
31:BA:530:G:N7	31:BA:2023:G:OP1	2.53	0.41
31:BA:577:G:H8	31:BA:577:G:O5'	2.03	0.41
31:BA:624:C:O2'	31:BA:625:G:H5'	2.21	0.41
31:BA:742:G:H4'	31:BA:1676:A:H5'	2.02	0.41
31:BA:1114:G:C8	31:BA:1115:G:N7	2.89	0.41
31:BA:1281:G:H2'	31:BA:1282:U:O4'	2.21	0.41
31:BA:1911:U:H2'	31:BA:1918:A:N1	2.35	0.41
31:BA:1942:C:C4	31:BA:1943:U:C4	3.08	0.41
31:BA:2259:G:N1	31:BA:2282:G:C6	2.88	0.41
31:BA:2298:A:H2'	31:BA:2299:G:O4'	2.20	0.41
31:BA:2380:C:C2'	31:BA:2381:C:H5'	2.50	0.41
31:BA:2412:A:H2'	31:BA:2413:G:O4'	2.19	0.41
31:BA:2420:C:H6	31:BA:2420:C:O5'	2.03	0.41
31:BA:2476:A:C6	31:BA:2477:C:C5	3.07	0.41
31:BA:2511:U:O4	31:BA:2575:C:N3	2.53	0.41
31:BA:2518:A:H5'	31:BA:2518:A:C8	2.55	0.41
31:BA:2554:U:C4	31:BA:2555:U:O4	2.74	0.41
31:BA:2584:U:H2'	31:BA:2585:U:C6	2.54	0.41
31:BA:2623:G:H2'	31:BA:2624:G:C8	2.56	0.41
31:BA:2870:C:H5''	43:BR:65:LEU:CD2	2.50	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:59:A:C4	32:BB:60:C:C6	3.09	0.41
32:BB:73:A:N1	51:BZ:34:ASN:ND2	2.68	0.41
34:BE:75:VAL:O	34:BE:75:VAL:HG23	2.21	0.41
34:BE:170:LEU:N	34:BE:170:LEU:CD1	2.83	0.41
34:BE:181:LEU:HD22	34:BE:181:LEU:N	2.36	0.41
36:BG:25:TYR:HB3	36:BG:30:GLU:CD	2.41	0.41
36:BG:43:LEU:HD13	36:BG:153:ARG:HD2	2.02	0.41
37:BH:164:TYR:N	37:BH:164:TYR:CD1	2.89	0.41
45:BT:76:PHE:HA	45:BT:77:PRO:HD2	1.75	0.41
47:BV:49:THR:HG22	47:BV:51:VAL:HG23	2.01	0.41
47:BV:98:GLU:CD	47:BV:98:GLU:C	2.79	0.41
49:BX:23:GLU:CG	49:BX:24:GLY:H	2.27	0.41
49:BX:35:THR:O	49:BX:39:ILE:HG23	2.19	0.41
50:BY:26:LYS:O	50:BY:27:VAL:C	2.58	0.41
51:BZ:69:THR:HG22	51:BZ:90:VAL:HG22	2.02	0.41
1:CA:189(F):U:C4	17:CQ:72:ARG:CZ	3.04	0.41
1:CA:321:A:H4'	1:CA:1435:G:O2'	2.21	0.41
1:CA:386:C:C2'	1:CA:387:U:C5'	2.84	0.41
1:CA:424:G:C4	1:CA:425:G:C8	3.08	0.41
1:CA:438:G:N2	1:CA:495:A:C8	2.88	0.41
1:CA:450:G:O3'	16:CP:41:PRO:HB2	2.21	0.41
1:CA:453:A:H4'	16:CP:72:ARG:HB2	2.03	0.41
1:CA:623:C:C2'	1:CA:624:C:H5'	2.51	0.41
1:CA:675:A:N6	1:CA:676:A:C6	2.89	0.41
1:CA:682:G:C2	1:CA:709:G:C6	3.08	0.41
1:CA:737:A:C2'	1:CA:738:C:C6	2.91	0.41
1:CA:746:A:H2'	1:CA:747:C:H6	1.82	0.41
1:CA:1260:C:H4'	1:CA:1284:C:C5'	2.46	0.41
1:CA:1272:G:C5	1:CA:1273:G:C8	3.09	0.41
1:CA:1278:U:O4	10:CJ:99:LYS:HE3	2.20	0.41
1:CA:1390:U:H2'	1:CA:1391:U:C6	2.55	0.41
1:CA:1508:G:H2'	1:CA:1509:C:O4'	2.20	0.41
2:CB:185:ILE:HA	2:CB:199:TYR:O	2.20	0.41
2:CB:212:GLN:CD	2:CB:235:SER:HB3	2.39	0.41
4:CD:158:ILE:HD12	4:CD:158:ILE:O	2.20	0.41
5:CE:39:GLY:O	5:CE:69:VAL:N	2.52	0.41
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.51	0.41
5:CE:107:ARG:O	5:CE:108:ALA:C	2.58	0.41
6:CF:15:ASP:O	6:CF:17:SER:N	2.53	0.41
6:CF:36:ARG:O	6:CF:38:GLU:HG3	2.20	0.41
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	2.02	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:41:GLU:O	6:CF:43:LEU:N	2.54	0.41
7:CG:50:ILE:O	7:CG:54:THR:HG23	2.21	0.41
12:CL:10:LEU:O	12:CL:14:GLY:HA2	2.19	0.41
14:CN:51:GLY:O	14:CN:53:LEU:N	2.54	0.41
17:CQ:60:ILE:HG23	17:CQ:62:SER:HG	1.86	0.41
17:CQ:87:LYS:HE2	17:CQ:87:LYS:HA	2.02	0.41
17:CQ:87:LYS:O	17:CQ:88:TYR:C	2.59	0.41
21:CU:12:LYS:HB3	21:CU:22:ARG:HD2	2.02	0.41
22:D0:75:LEU:HD23	22:D0:75:LEU:HA	1.71	0.41
24:D2:12:GLU:O	24:D2:14:ARG:NH2	2.51	0.41
31:DA:401:A:C6	31:DA:402:A:C6	3.07	0.41
31:DA:558:G:P	39:DN:111:PRO:HG2	2.60	0.41
31:DA:590:A:C6	31:DA:668:G:N1	2.88	0.41
31:DA:776:G:C8	31:DA:793:A:C2	3.08	0.41
31:DA:806:C:OP1	31:DA:831:G:H5''	2.20	0.41
31:DA:814:C:N4	31:DA:1193:G:H1	2.17	0.41
31:DA:903:C:H2'	31:DA:904:C:H6	1.85	0.41
31:DA:904:C:H5''	31:DA:904:C:H6	1.85	0.41
31:DA:1139:G:H5'	39:DN:102:ALA:HB1	2.02	0.41
31:DA:1141:U:P	39:DN:63:THR:CG2	3.05	0.41
31:DA:1149:G:H2'	31:DA:1150:C:H6	1.85	0.41
31:DA:1247:A:C5	31:DA:1249:U:C4	3.08	0.41
31:DA:1278:A:H2'	31:DA:1279:G:C8	2.56	0.41
31:DA:1353:A:O4'	31:DA:1569:A:H2	2.02	0.41
31:DA:1423:G:H2'	31:DA:1424:G:H8	1.86	0.41
31:DA:1666:G:C2'	31:DA:1667:G:H5'	2.50	0.41
31:DA:1693:U:H1'	33:DD:14:ARG:NH2	2.35	0.41
31:DA:1982:C:H6	31:DA:1982:C:O5'	2.03	0.41
31:DA:2012:G:O5'	31:DA:2012:G:H8	2.02	0.41
31:DA:2056:G:N2	31:DA:2057:A:C1'	2.84	0.41
31:DA:2222:G:O2'	33:DD:148:GLU:HG2	2.20	0.41
31:DA:2260:C:H2'	31:DA:2261:C:C6	2.56	0.41
31:DA:2276:G:OP2	42:DQ:84:GLY:N	2.50	0.41
31:DA:2286:A:H5''	31:DA:2287:A:P	2.60	0.41
31:DA:2287:A:C2	31:DA:2289:G:H1'	2.55	0.41
31:DA:2485:G:O2'	31:DA:2486:G:H5'	2.21	0.41
31:DA:2701:C:C3'	31:DA:2702:U:C5'	2.69	0.41
32:DB:29:A:H2'	32:DB:30:C:O4'	2.19	0.41
32:DB:118:G:H2'	32:DB:118:G:N3	2.35	0.41
34:DE:11:MET:HB3	34:DE:24:THR:HB	2.02	0.41
35:DF:3:GLU:O	35:DF:19:GLU:CA	2.69	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:16:ARG:HH11	36:DG:16:ARG:HB3	1.85	0.41
38:DI:93:THR:CB	38:DI:119:PRO:HB3	2.51	0.41
39:DN:5:VAL:HA	39:DN:6:PRO:HD3	1.80	0.41
40:DO:17:ARG:HD3	40:DO:17:ARG:HA	1.93	0.41
40:DO:119:PRO:HB2	45:DT:68:TYR:CD1	2.55	0.41
41:DP:45:LEU:HA	41:DP:45:LEU:HD23	1.75	0.41
42:DQ:80:GLU:HA	42:DQ:80:GLU:OE2	2.20	0.41
43:DR:84:ALA:HB3	43:DR:85:PRO:CD	2.50	0.41
46:DU:90:VAL:CG1	46:DU:91:ASP:H	2.20	0.41
50:DY:45:VAL:HG13	50:DY:62:GLU:CD	2.40	0.41
51:DZ:108:PRO:O	51:DZ:109:ALA:C	2.58	0.41
1:AA:27:G:C5	1:AA:557:G:C2	3.09	0.41
1:AA:42:G:C2	1:AA:401:C:O2	2.73	0.41
1:AA:129(A):G:C6	1:AA:189(H):G:H1'	2.55	0.41
1:AA:233:C:C2'	1:AA:234:C:H5'	2.50	0.41
1:AA:233:C:C4	1:AA:234:C:C5	3.08	0.41
1:AA:266:G:H8	1:AA:266:G:H2'	1.76	0.41
1:AA:282:A:N3	1:AA:282:A:H2'	2.34	0.41
1:AA:523:A:H61	12:AL:53:ARG:HH12	1.68	0.41
1:AA:578:C:H1'	1:AA:729:A:H1'	2.02	0.41
1:AA:587:G:O2'	1:AA:588:G:OP2	2.28	0.41
1:AA:598:U:H2'	1:AA:599:C:C6	2.56	0.41
1:AA:669:U:N3	1:AA:670:G:N7	2.69	0.41
1:AA:921:U:N3	1:AA:922:G:C5	2.88	0.41
1:AA:1067:A:N3	1:AA:1068:G:N9	2.68	0.41
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.20	0.41
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.20	0.41
1:AA:1259:C:H42	1:AA:1276:G:H1	1.68	0.41
1:AA:1382:C:H2'	1:AA:1383:C:C6	2.55	0.41
1:AA:1390:U:H2'	1:AA:1391:U:H6	1.84	0.41
1:AA:1433:A:C6	1:AA:1468:A:C4	3.08	0.41
2:AB:196:LEU:HA	8:AH:74:PRO:HG3	2.01	0.41
4:AD:104:VAL:O	4:AD:105:VAL:C	2.59	0.41
4:AD:207:TYR:HD2	4:AD:207:TYR:HA	1.75	0.41
5:AE:15:ARG:HG3	5:AE:26:PHE:HB3	2.02	0.41
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	2.01	0.41
6:AF:41:GLU:O	6:AF:43:LEU:N	2.54	0.41
7:AG:32:ARG:O	7:AG:33:ASP:CB	2.68	0.41
9:AI:49:PRO:HB3	9:AI:101:PHE:CD1	2.54	0.41
10:AJ:62:HIS:HD2	10:AJ:62:HIS:O	2.03	0.41
10:AJ:86:MET:O	10:AJ:86:MET:HG3	2.19	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:99:GLN:C	11:AK:101:SER:N	2.74	0.41
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.68	0.41
15:AO:40:SER:HA	31:BA:715:G:H21	1.86	0.41
15:AO:64:ARG:HH22	15:AO:88:ARG:CZ	2.31	0.41
16:AP:22:THR:HG22	16:AP:32:TYR:CB	2.51	0.41
17:AQ:44:ALA:HA	17:AQ:71:PHE:O	2.21	0.41
19:AS:15:LEU:CD1	19:AS:31:ILE:HD11	2.50	0.41
22:B0:37:LEU:O	22:B0:38:VAL:CG2	2.68	0.41
23:B1:37:ILE:HD12	31:BA:2079:U:O2'	2.20	0.41
27:B5:9:LYS:O	27:B5:10:LYS:C	2.59	0.41
28:B6:28:ARG:O	28:B6:32:ASN:HB3	2.21	0.41
30:B8:7:HIS:HD2	41:BP:50:ARG:HD3	1.81	0.41
30:B8:30:ARG:O	30:B8:32:LEU:O	2.37	0.41
31:BA:85:G:OP1	50:BY:9:LYS:HB2	2.20	0.41
31:BA:183:C:H1'	31:BA:433:C:H1'	2.01	0.41
31:BA:251:A:OP1	41:BP:50:ARG:HD2	2.21	0.41
31:BA:272(J):C:H2'	31:BA:274:G:OP1	2.21	0.41
31:BA:405:U:O2	31:BA:405:U:H2'	2.20	0.41
31:BA:604:G:H2'	31:BA:605:C:O4'	2.21	0.41
31:BA:744:G:P	34:BE:132:HIS:HB3	2.61	0.41
31:BA:790:C:HO2'	31:BA:791:C:H5''	1.85	0.41
31:BA:822:U:O2'	31:BA:823:G:H5'	2.21	0.41
31:BA:877:U:H2'	31:BA:878:A:H5''	2.02	0.41
31:BA:962:G:C5	31:BA:963:U:C5	3.08	0.41
31:BA:1165:U:H2'	31:BA:1166:C:C6	2.55	0.41
31:BA:1188:U:O2'	31:BA:1189:A:H5'	2.21	0.41
31:BA:1799:G:H5'	31:BA:1819:A:N6	2.35	0.41
31:BA:1833:U:C2	31:BA:1834:U:C6	3.08	0.41
31:BA:1882:C:C2	31:BA:1883:G:C8	3.09	0.41
31:BA:1907:G:C2	31:BA:1924:C:C2	3.08	0.41
31:BA:2291:U:C4'	31:BA:2380:C:O2	2.65	0.41
31:BA:2655:G:N3	31:BA:2655:G:C2'	2.83	0.41
31:BA:2815:C:H2'	31:BA:2816:C:C6	2.55	0.41
32:BB:67:G:C6	32:BB:68:C:C5	3.07	0.41
32:BB:82:G:H2'	32:BB:83:G:C5'	2.51	0.41
32:BB:116:G:N2	32:BB:117:G:C4	2.89	0.41
35:BF:53:THR:H	35:BF:53:THR:HG22	1.42	0.41
35:BF:155:LEU:O	35:BF:157:VAL:HG23	2.21	0.41
36:BG:16:ARG:CG	36:BG:16:ARG:NH1	2.81	0.41
36:BG:27:ASN:N	36:BG:30:GLU:OE1	2.48	0.41
37:BH:85:LYS:CE	37:BH:145:ALA:HB2	2.51	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:139:GLN:NE2	38:BI:141:LYS:HE2	2.35	0.41
39:BN:22:THR:O	39:BN:23:LEU:C	2.59	0.41
40:BO:104:ARG:NH1	40:BO:104:ARG:HB2	2.36	0.41
43:BR:60:LEU:O	43:BR:60:LEU:HG	2.19	0.41
44:BS:89:ARG:HA	44:BS:89:ARG:NE	2.24	0.41
45:BT:48:ILE:HD12	45:BT:48:ILE:N	2.36	0.41
45:BT:113:LYS:C	45:BT:114:LEU:HD23	2.41	0.41
46:BU:43:GLY:CA	47:BV:76:LYS:HE3	2.51	0.41
46:BU:92:ARG:NE	47:BV:11:GLN:HG3	2.36	0.41
47:BV:94:LEU:CD2	47:BV:96:ILE:HG13	2.50	0.41
49:BX:50:LYS:HE2	49:BX:82:GLN:HB2	2.01	0.41
49:BX:82:GLN:HG3	49:BX:85:PRO:HD2	1.98	0.41
50:BY:96:ILE:H	50:BY:96:ILE:HG12	1.36	0.41
51:BZ:41:LEU:O	51:BZ:42:VAL:C	2.59	0.41
1:CA:51:A:N3	1:CA:116:A:H1'	2.35	0.41
1:CA:292:G:C5	1:CA:293:G:H1'	2.55	0.41
1:CA:302:G:C6	1:CA:303:A:C5	3.08	0.41
1:CA:363:A:N1	1:CA:364:A:C2	2.88	0.41
1:CA:523:A:H61	12:CL:53:ARG:HH12	1.67	0.41
1:CA:542:G:P	4:CD:10:ARG:HH21	2.42	0.41
1:CA:559:A:C4'	1:CA:560:U:H3'	2.48	0.41
1:CA:592:G:H2'	1:CA:593:G:H8	1.85	0.41
1:CA:644:G:O2'	1:CA:645:C:H5'	2.20	0.41
1:CA:682:G:C5	1:CA:683:G:N7	2.88	0.41
1:CA:874:G:H2'	1:CA:875:C:H6	1.85	0.41
1:CA:1157:A:C4	1:CA:1181:G:C2	3.09	0.41
1:CA:1328:C:H5''	13:CM:28:ALA:CB	2.50	0.41
1:CA:1373:G:H8	1:CA:1373:G:O5'	2.02	0.41
2:CB:64:ARG:O	2:CB:65:GLY:C	2.58	0.41
2:CB:90:MET:HE2	2:CB:90:MET:HA	2.02	0.41
2:CB:196:LEU:HA	8:CH:74:PRO:HG3	2.01	0.41
10:CJ:78:ASN:C	10:CJ:80:LYS:H	2.23	0.41
10:CJ:98:ILE:HD12	10:CJ:98:ILE:N	2.35	0.41
11:CK:48:ILE:N	11:CK:48:ILE:HD13	2.35	0.41
12:CL:11:VAL:HG21	17:CQ:34:LYS:HD3	2.02	0.41
13:CM:64:TRP:HB2	13:CM:65:LYS:H	1.63	0.41
15:CO:57:LEU:HA	15:CO:57:LEU:HD23	1.87	0.41
18:CR:67:ALA:O	18:CR:70:ILE:HB	2.21	0.41
23:D1:54:ALA:O	23:D1:56:GLN:CA	2.68	0.41
23:D1:89:GLU:CD	23:D1:89:GLU:N	2.58	0.41
25:D3:4:LEU:HD23	25:D3:4:LEU:HA	1.88	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:33:CYS:HA	27:D5:34:PRO:HD2	1.81	0.41
29:D7:5:TRP:CZ3	31:DA:464:U:C4'	3.04	0.41
30:D8:35:GLN:HE21	30:D8:35:GLN:HB3	1.56	0.41
30:D8:52:LYS:N	30:D8:54:GLU:HG2	2.36	0.41
31:DA:271(N):U:OP1	31:DA:271(N):U:C6	2.73	0.41
31:DA:296:C:C2	31:DA:297:C:C5	3.07	0.41
31:DA:640:C:O5'	31:DA:640:C:H6	2.04	0.41
31:DA:671:C:H2'	31:DA:672:C:C6	2.55	0.41
31:DA:696:G:N2	31:DA:697:C:C2	2.89	0.41
31:DA:708:C:O2	31:DA:708:C:H2'	2.21	0.41
31:DA:764:A:C4	31:DA:781:A:N1	2.89	0.41
31:DA:794:G:C4	31:DA:795:C:C5	3.09	0.41
31:DA:797:C:C2	31:DA:798:G:C8	3.08	0.41
31:DA:823:G:C6	31:DA:835:A:C6	3.08	0.41
31:DA:876:C:H6	31:DA:876:C:O5'	2.03	0.41
31:DA:911:A:N9	42:DQ:9:TYR:OH	2.47	0.41
31:DA:942:G:C2'	31:DA:943:U:C5'	2.96	0.41
31:DA:994:C:H1'	47:DV:10:LYS:HZ2	1.84	0.41
31:DA:1005:C:H2'	31:DA:1006:C:C6	2.54	0.41
31:DA:1204:A:N6	31:DA:1240:U:H2'	2.35	0.41
31:DA:1295:C:H2'	31:DA:1296:G:H8	1.86	0.41
31:DA:1700:A:H2'	31:DA:1701:A:O5'	2.20	0.41
31:DA:1767:C:O2'	31:DA:1768:U:H5'	2.19	0.41
31:DA:1784:A:H4'	31:DA:1785:A:H5''	2.02	0.41
31:DA:2021:C:H4'	31:DA:2022:U:OP2	2.19	0.41
31:DA:2029:G:C3'	31:DA:2030:A:H5'	2.50	0.41
31:DA:2031:A:OP1	31:DA:2031:A:H8	2.03	0.41
31:DA:2328:A:C2'	31:DA:2329:G:O4'	2.68	0.41
31:DA:2476:A:H2	31:DA:2477:C:H5''	1.85	0.41
31:DA:2550:G:C5	31:DA:2551:C:C5	3.08	0.41
55:DA:3320:TEL:H7	55:DA:3320:TEL:H13	1.60	0.41
32:DB:19:G:C6	32:DB:20:C:N4	2.89	0.41
32:DB:21:G:N3	32:DB:21:G:H2'	2.34	0.41
33:DD:131:LEU:HD12	33:DD:131:LEU:N	2.35	0.41
35:DF:88:VAL:HG11	35:DF:91:GLY:HA3	2.02	0.41
37:DH:73:ALA:O	37:DH:76:VAL:HB	2.20	0.41
38:DI:70:GLU:O	38:DI:71:ILE:HG22	2.21	0.41
39:DN:21:LYS:O	39:DN:61:ARG:N	2.50	0.41
42:DQ:35:VAL:HG23	42:DQ:100:GLY:C	2.40	0.41
45:DT:124:ASP:C	45:DT:126:ALA:H	2.23	0.41
46:DU:12:ARG:O	46:DU:13:LYS:C	2.57	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DU:83:LEU:CD2	46:DU:88:ILE:HG12	2.51	0.41
47:DV:72:VAL:HA	47:DV:88:ARG:NH2	2.34	0.41
47:DV:89:GLN:HE21	47:DV:89:GLN:HB2	1.60	0.41
47:DV:98:GLU:O	47:DV:99:ILE:HD13	2.21	0.41
48:DW:19:LEU:HD12	48:DW:19:LEU:HA	1.75	0.41
48:DW:34:ASN:O	48:DW:37:ARG:HB3	2.21	0.41
48:DW:75:TYR:N	48:DW:75:TYR:HD1	2.16	0.41
1:AA:224:C:N3	1:AA:225:C:C4	2.89	0.41
1:AA:410:G:C2	1:AA:429:U:C2	3.08	0.41
1:AA:436:C:HO2'	1:AA:437:U:P	2.41	0.41
1:AA:604:G:C2	1:AA:635:G:C5	3.09	0.41
1:AA:658:G:O4'	15:AO:22:THR:O	2.38	0.41
1:AA:797:C:OP1	11:AK:124:LYS:HE2	2.20	0.41
1:AA:814:A:N7	1:AA:816:A:C5	2.89	0.41
1:AA:815:A:C2	1:AA:1529:G:C4	3.07	0.41
1:AA:958:A:N1	19:AS:54:GLY:HA3	2.35	0.41
1:AA:1091:U:O2	1:AA:1093:A:H8	2.04	0.41
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.52	0.41
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.56	0.41
1:AA:1160:G:N1	1:AA:1161:C:C5	2.89	0.41
1:AA:1225:A:O2'	19:AS:78:ARG:HD3	2.19	0.41
1:AA:1370:G:C2	1:AA:1371:G:N7	2.89	0.41
2:AB:185:ILE:HA	2:AB:199:TYR:O	2.21	0.41
3:AC:104:GLN:NE2	3:AC:105:GLU:H	2.19	0.41
4:AD:159:ARG:O	4:AD:163:GLU:N	2.54	0.41
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	2.03	0.41
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.21	0.41
8:AH:10:LEU:HD13	8:AH:83:ILE:CG1	2.51	0.41
8:AH:12:ARG:NH1	8:AH:58:TYR:HE2	2.16	0.41
10:AJ:78:ASN:C	10:AJ:80:LYS:H	2.22	0.41
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.21	0.41
12:AL:28:LYS:O	12:AL:30:ALA:N	2.53	0.41
15:AO:17:ARG:CG	15:AO:17:ARG:NH1	2.83	0.41
18:AR:73:ALA:CB	18:AR:79:LEU:HD12	2.51	0.41
20:AT:21:LYS:O	20:AT:24:LEU:HB3	2.21	0.41
25:B3:26:LEU:HD21	25:B3:46:ASN:HB2	2.03	0.41
28:B6:12:GLU:HA	28:B6:23:THR:H	1.85	0.41
30:B8:35:GLN:HA	31:BA:2420:C:OP1	2.20	0.41
30:B8:61:LEU:C	30:B8:63:PRO:HD2	2.40	0.41
31:BA:171:G:H2'	31:BA:172:C:C1'	2.50	0.41
31:BA:192:C:C2'	31:BA:193:U:O5'	2.68	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:557:U:C2'	31:BA:558:G:O5'	2.69	0.41
31:BA:776:G:C5	31:BA:793:A:C4	3.08	0.41
31:BA:817:C:H2'	31:BA:818:G:H8	1.83	0.41
31:BA:1241:A:N7	31:BA:1242:A:C4	2.88	0.41
31:BA:1272:A:H3'	31:BA:1273:U:C5'	2.51	0.41
31:BA:1323:U:C2'	31:BA:1324:G:H5'	2.50	0.41
31:BA:1346:G:C6	31:BA:1601:G:C6	3.08	0.41
31:BA:1792:G:H2'	31:BA:1793:C:H6	1.85	0.41
31:BA:1902:C:C5'	33:BD:246:PRO:HD3	2.51	0.41
31:BA:2007:C:O2	31:BA:2007:C:H2'	2.19	0.41
31:BA:2245:U:O2'	31:BA:2436:G:OP2	2.26	0.41
31:BA:2341:G:H2'	31:BA:2342:C:O4'	2.21	0.41
31:BA:2528:U:H2'	31:BA:2530:A:O5'	2.20	0.41
31:BA:2544:G:H1'	31:BA:2646:C:C4'	2.49	0.41
31:BA:2547:U:C2'	31:BA:2548:G:H5'	2.51	0.41
31:BA:2567:G:C4	31:BA:2568:C:C5	3.09	0.41
31:BA:2602:A:H4'	31:BA:2603:G:O5'	2.19	0.41
31:BA:2651:C:O2'	31:BA:2652:C:H5'	2.21	0.41
31:BA:2682:U:C5	34:BE:11:MET:CE	3.03	0.41
31:BA:2711:A:N7	31:BA:2714:G:C8	2.88	0.41
31:BA:2857:G:N2	31:BA:2859:G:H3'	2.35	0.41
32:BB:15:A:H2'	32:BB:16:G:OP1	2.20	0.41
32:BB:37:C:C2	32:BB:38:C:O2	2.72	0.41
33:BD:35:LYS:HA	33:BD:36:PRO:HA	1.58	0.41
33:BD:35:LYS:HE2	33:BD:65:ILE:HG22	2.03	0.41
33:BD:83:GLU:O	33:BD:92:ILE:CD1	2.69	0.41
33:BD:143:HIS:CD2	33:BD:144:ALA:N	2.89	0.41
33:BD:267:SER:O	33:BD:268:ARG:CB	2.66	0.41
34:BE:2:LYS:HA	34:BE:84:PHE:CE2	2.56	0.41
34:BE:111:ARG:HD2	34:BE:160:TYR:CD1	2.55	0.41
35:BF:53:THR:CG2	35:BF:56:GLU:OE1	2.68	0.41
35:BF:108:LYS:HA	35:BF:108:LYS:HD3	1.77	0.41
36:BG:94:LEU:HD11	36:BG:102:PHE:CB	2.51	0.41
38:BI:77:LEU:O	38:BI:78:THR:O	2.39	0.41
39:BN:78:TYR:CD1	39:BN:79:PRO:HD3	2.54	0.41
39:BN:82:LEU:O	39:BN:83:LYS:C	2.59	0.41
41:BP:111:ARG:HA	41:BP:128:HIS:CG	2.55	0.41
43:BR:26:LYS:HE2	43:BR:71:GLN:H	1.85	0.41
49:BX:27:THR:HB	49:BX:77:LYS:HG2	2.01	0.41
1:CA:109:A:C4	1:CA:326:G:C2	3.09	0.41
1:CA:150:C:N4	1:CA:170:U:C4	2.89	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:191:G:N2	20:CT:104:LEU:HA	2.32	0.41
1:CA:251:G:C6	1:CA:266:G:C6	3.08	0.41
1:CA:390:C:H3'	1:CA:390:C:H6	1.86	0.41
1:CA:398:C:OP1	1:CA:398:C:C6	2.74	0.41
1:CA:501:C:H3'	1:CA:501:C:H6	1.85	0.41
1:CA:510:A:O2'	1:CA:542:G:H1'	2.20	0.41
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.50	0.41
1:CA:552:U:H2'	1:CA:553:A:C5'	2.50	0.41
1:CA:557:G:H2'	1:CA:558:G:O4'	2.21	0.41
1:CA:624:C:H4'	16:CP:11:SER:H	1.86	0.41
1:CA:693:G:O2'	1:CA:694:A:H5'	2.20	0.41
1:CA:699:C:H2'	1:CA:700:G:H5'	2.02	0.41
1:CA:735:C:H1'	18:CR:75:ILE:CD1	2.50	0.41
1:CA:937:A:H1'	1:CA:1379:G:N2	2.35	0.41
1:CA:982:U:C2	1:CA:983:A:N6	2.88	0.41
1:CA:1060:C:H5''	10:CJ:51:ARG:HB3	2.03	0.41
1:CA:1159:U:C6	1:CA:1182:G:N3	2.89	0.41
1:CA:1479:C:H2'	1:CA:1480:G:C8	2.56	0.41
3:CC:17:ASP:O	3:CC:18:TRP:C	2.59	0.41
4:CD:61:LYS:HZ3	4:CD:62:GLN:NE2	2.18	0.41
4:CD:194:LEU:HD22	4:CD:194:LEU:N	2.35	0.41
5:CE:13:ILE:CG2	5:CE:14:ARG:N	2.82	0.41
6:CF:12:PRO:HG3	6:CF:55:ASP:HB3	2.03	0.41
6:CF:67:MET:HE2	6:CF:68:PRO:HG2	2.01	0.41
12:CL:28:LYS:HE2	12:CL:33:ARG:HH22	1.84	0.41
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.36	0.41
17:CQ:27:PHE:HA	17:CQ:28:PRO:HD3	1.94	0.41
17:CQ:34:LYS:O	17:CQ:35:VAL:C	2.58	0.41
18:CR:88:LYS:HE2	18:CR:88:LYS:O	2.20	0.41
27:D5:51:TYR:CB	27:D5:52:TYR:O	2.68	0.41
28:D6:24:GLU:OE1	28:D6:24:GLU:CA	2.59	0.41
30:D8:27:THR:HG1	31:DA:2361:A:P	2.43	0.41
31:DA:25:U:H5''	48:DW:80:PRO:HD3	2.03	0.41
31:DA:78:A:C6	31:DA:109:G:N1	2.89	0.41
31:DA:225:A:O2'	31:DA:257:A:H4'	2.20	0.41
31:DA:330:A:O2'	31:DA:331:A:H8	2.04	0.41
31:DA:703:U:C2'	31:DA:704:G:H5'	2.51	0.41
31:DA:832:G:C4	31:DA:833:U:C5	3.08	0.41
31:DA:836:G:C6	31:DA:837:C:C4	3.09	0.41
31:DA:1159:U:H2'	31:DA:1160:G:C8	2.54	0.41
31:DA:1275:A:N1	31:DA:1295:C:O2'	2.47	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1453:U:OP1	43:DR:77:ARG:NH1	2.52	0.41
31:DA:1510:G:C4	31:DA:1511:C:C5	3.09	0.41
31:DA:1563:G:C4	31:DA:1564:C:C5	3.08	0.41
31:DA:1722:A:N1	31:DA:1740:G:H2'	2.36	0.41
31:DA:1891:G:C6	31:DA:1892:C:C4	3.08	0.41
31:DA:2046:G:C6	31:DA:2047:U:C4	3.08	0.41
31:DA:2196:C:C2'	31:DA:2197:U:H5'	2.49	0.41
31:DA:2291:U:H5''	31:DA:2380:C:C1'	2.51	0.41
31:DA:2315:G:H5''	31:DA:2316:C:P	2.60	0.41
31:DA:2584:U:H6	31:DA:2585:U:C5	2.39	0.41
31:DA:2780:G:O2'	31:DA:2781:A:OP1	2.33	0.41
31:DA:2859:G:O2'	31:DA:2860:A:O5'	2.37	0.41
34:DE:169:ASN:HD22	34:DE:169:ASN:HA	1.64	0.41
37:DH:85:LYS:HZ3	37:DH:145:ALA:CB	2.34	0.41
37:DH:98:LEU:HD13	37:DH:125:VAL:HG23	2.02	0.41
37:DH:156:ALA:O	37:DH:157:TYR:C	2.59	0.41
38:DI:41:GLU:O	38:DI:44:LEU:HB3	2.20	0.41
38:DI:77:LEU:HD22	38:DI:104:GLN:OE1	2.19	0.41
38:DI:93:THR:CG2	38:DI:119:PRO:HB3	2.51	0.41
38:DI:128:LEU:HB3	38:DI:129:THR:H	1.57	0.41
39:DN:128:HIS:O	39:DN:130:HIS:HB3	2.19	0.41
42:DQ:32:TYR:HE2	42:DQ:133:ARG:HG2	1.83	0.41
42:DQ:134:ARG:C	42:DQ:136:ALA:N	2.74	0.41
44:DS:84:GLN:HE21	44:DS:105:ALA:CB	2.30	0.41
46:DU:69:CYS:HA	46:DU:106:PHE:HE2	1.86	0.41
48:DW:28:SER:O	48:DW:29:LEU:C	2.59	0.41
48:DW:64:MET:HE2	48:DW:69:LEU:HD23	2.02	0.41
1:AA:17:U:C1'	1:AA:1080:A:H1'	2.51	0.41
1:AA:20:U:H2'	1:AA:21:G:O4'	2.20	0.41
1:AA:70:G:H2'	1:AA:71:C:H6	1.84	0.41
1:AA:146:G:O6	1:AA:176:C:N3	2.54	0.41
1:AA:293:G:C5	1:AA:294:U:C5	3.08	0.41
1:AA:373:A:C5	1:AA:482:A:C5	3.08	0.41
1:AA:383:A:OP1	1:AA:454:C:O2'	2.31	0.41
1:AA:392:G:O2'	1:AA:393:A:H5'	2.20	0.41
1:AA:675:A:N6	1:AA:676:A:C6	2.89	0.41
1:AA:766:A:C8	1:AA:814:A:C6	3.08	0.41
1:AA:1250:A:N3	1:AA:1370:G:O2'	2.41	0.41
1:AA:1255:G:N3	1:AA:1255:G:H2'	2.35	0.41
1:AA:1308:U:H5'	13:AM:110:ARG:HD2	2.03	0.41
1:AA:1328:C:H5''	13:AM:28:ALA:CB	2.51	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.84	0.41
3:AC:186:PHE:CE2	3:AC:188:LEU:CD2	3.03	0.41
8:AH:5:PRO:HB2	8:AH:32:LYS:HE2	2.02	0.41
11:AK:92:GLU:C	11:AK:94:ALA:N	2.73	0.41
12:AL:56:ALA:O	12:AL:68:ALA:N	2.52	0.41
13:AM:11:ARG:NH2	36:BG:147:ASP:HB3	2.36	0.41
23:B1:18:ILE:HD13	31:BA:188:G:OP1	2.20	0.41
23:B1:21:ARG:HA	23:B1:21:ARG:NE	2.34	0.41
23:B1:64:ALA:O	23:B1:65:SER:CB	2.57	0.41
23:B1:87:PRO:HD2	23:B1:89:GLU:OE2	2.21	0.41
25:B3:8:LEU:HB2	25:B3:28:LEU:CD1	2.41	0.41
30:B8:39:LYS:CG	30:B8:42:ARG:NH1	2.83	0.41
31:BA:199:A:C6	31:BA:2434:A:C6	3.08	0.41
31:BA:372:G:O2'	31:BA:373:U:OP2	2.34	0.41
31:BA:448:U:C4	31:BA:583:G:H1'	2.55	0.41
31:BA:501:A:N6	31:BA:502:A:C6	2.89	0.41
31:BA:581:C:H2'	31:BA:582:G:H8	1.84	0.41
31:BA:583:G:N2	31:BA:1258:C:C2	2.89	0.41
31:BA:711:G:C2'	31:BA:712:G:H5'	2.50	0.41
31:BA:1232:G:C6	31:BA:1233:C:C4	3.09	0.41
31:BA:1385:G:H1'	31:BA:1386:C:C6	2.56	0.41
31:BA:1415:U:H2'	31:BA:1416:G:H4'	2.01	0.41
31:BA:1465:G:N1	31:BA:1466:G:C5	2.88	0.41
31:BA:1687:G:H2'	31:BA:1688:U:C6	2.56	0.41
31:BA:1817:G:C5	31:BA:1818:U:C5	3.09	0.41
31:BA:1893:C:C6	31:BA:1894:C:C5	3.09	0.41
31:BA:1935:G:H1	31:BA:1962:C:H2'	1.86	0.41
31:BA:1983:C:H4'	31:BA:2606:C:O3'	2.21	0.41
31:BA:2052:G:N3	31:BA:2053:G:C8	2.89	0.41
31:BA:2191:G:C2'	31:BA:2192:G:O5'	2.68	0.41
31:BA:2298:A:N6	31:BA:2318:G:H1'	2.35	0.41
31:BA:2305:A:H5'	36:BG:156:ASP:HB3	2.02	0.41
31:BA:2364:C:C2'	31:BA:2365:G:C5'	2.98	0.41
31:BA:2464:C:N4	31:BA:2487:G:C6	2.89	0.41
31:BA:2469:A:C2	31:BA:2470:G:C5	3.08	0.41
31:BA:2473:U:C5	31:BA:2474:C:C5	3.09	0.41
31:BA:2558:C:C5	31:BA:2559:C:C5	3.08	0.41
31:BA:2670:A:C2'	31:BA:2671:A:H5'	2.50	0.41
31:BA:2753:A:O2'	31:BA:2754:U:C5'	2.60	0.41
31:BA:2801(A):A:C3'	31:BA:2802:G:H5'	2.50	0.41
33:BD:69:ARG:HH12	33:BD:117:VAL:HG23	1.84	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:133:LEU:HD21	33:BD:191:ALA:CB	2.49	0.41
34:BE:54:GLN:O	34:BE:55:ASN:OD1	2.39	0.41
34:BE:132:HIS:CG	34:BE:135:HIS:CE1	3.05	0.41
35:BF:129:PHE:HE1	35:BF:142:TRP:CZ2	2.39	0.41
36:BG:131:TYR:O	36:BG:159:VAL:HG13	2.21	0.41
37:BH:71:LEU:O	37:BH:72:ILE:C	2.59	0.41
37:BH:85:LYS:CE	37:BH:141:VAL:O	2.68	0.41
37:BH:85:LYS:HE2	37:BH:145:ALA:H	1.86	0.41
37:BH:149:ARG:O	37:BH:152:ARG:O	2.39	0.41
38:BI:118:LYS:HE3	38:BI:118:LYS:HB3	1.90	0.41
40:BO:2:ILE:HG23	40:BO:6:THR:HG21	2.02	0.41
41:BP:30:THR:O	41:BP:33:ARG:N	2.27	0.41
42:BQ:103:MET:O	42:BQ:104:PHE:CG	2.74	0.41
45:BT:23:ARG:C	45:BT:25:GLY:N	2.74	0.41
45:BT:102:ILE:HG13	45:BT:103:ARG:N	2.36	0.41
45:BT:105:LEU:O	45:BT:113:LYS:NZ	2.53	0.41
46:BU:55:ARG:H	46:BU:55:ARG:HG2	1.57	0.41
46:BU:92:ARG:CD	47:BV:11:GLN:HG3	2.49	0.41
48:BW:75:TYR:CD1	48:BW:75:TYR:N	2.89	0.41
50:BY:54:LYS:HG2	50:BY:55:TYR:H	1.86	0.41
1:CA:54:C:N4	1:CA:353:A:OP2	2.53	0.41
1:CA:113:G:O2'	1:CA:114:U:H5'	2.21	0.41
1:CA:147:G:H2'	1:CA:148:G:H5'	2.01	0.41
1:CA:394:G:C5	1:CA:395:C:C5	3.08	0.41
1:CA:410:G:C2	1:CA:429:U:C2	3.08	0.41
1:CA:552:U:H4'	12:CL:86:ARG:CG	2.50	0.41
1:CA:563:A:C8	1:CA:567:G:O4'	2.73	0.41
1:CA:623:C:H2'	1:CA:624:C:H5'	2.03	0.41
1:CA:667:G:N1	1:CA:740:U:C2	2.88	0.41
1:CA:768:A:OP1	1:CA:804:U:H4'	2.20	0.41
1:CA:778:G:C6	1:CA:779:C:N3	2.89	0.41
1:CA:949:A:C2	1:CA:1233:G:N3	2.88	0.41
1:CA:952:U:C5	13:CM:104:ARG:NH2	2.89	0.41
1:CA:1087:G:N2	1:CA:1099:G:H1'	2.36	0.41
1:CA:1128:C:C4	1:CA:1139:G:C5	3.09	0.41
1:CA:1151:A:O2'	1:CA:1152:A:H8	2.03	0.41
1:CA:1250:A:N3	1:CA:1370:G:O2'	2.42	0.41
1:CA:1370:G:C2	1:CA:1371:G:N7	2.89	0.41
1:CA:1382:C:H2'	1:CA:1383:C:C6	2.56	0.41
1:CA:1478:C:C2	1:CA:1479:C:C5	3.09	0.41
2:CB:61:LEU:HA	2:CB:64:ARG:HG3	2.03	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:104:GLN:NE2	3:CC:105:GLU:H	2.18	0.41
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.20	0.41
5:CE:48:ALA:C	5:CE:50:GLU:H	2.24	0.41
7:CG:15:ASP:O	7:CG:19:GLY:HA2	2.20	0.41
10:CJ:54:PHE:CZ	10:CJ:55:LYS:CE	3.04	0.41
16:CP:4:ILE:HG23	16:CP:36:ILE:HD11	2.03	0.41
16:CP:75:ARG:HA	16:CP:80:PHE:CD1	2.55	0.41
16:CP:81:ARG:C	16:CP:82:GLN:HE21	2.22	0.41
18:CR:41:LYS:C	18:CR:43:PHE:H	2.23	0.41
21:CU:5:ASP:O	21:CU:11:GLY:HA3	2.19	0.41
22:D0:31:VAL:O	22:D0:64:ASP:HA	2.20	0.41
24:D2:45:SER:HA	24:D2:47:ASN:HD21	1.85	0.41
25:D3:17:LYS:HA	25:D3:17:LYS:HD3	1.78	0.41
30:D8:2:PRO:N	31:DA:591:C:O2	2.53	0.41
30:D8:31:HIS:O	30:D8:32:LEU:C	2.59	0.41
31:DA:32:C:C2'	31:DA:33:U:H5'	2.50	0.41
31:DA:181:A:H1'	31:DA:435:C:H5'	2.01	0.41
31:DA:230:U:O2'	31:DA:231:C:H5'	2.21	0.41
31:DA:240:G:H2'	31:DA:241:A:C8	2.56	0.41
31:DA:264:C:O2'	31:DA:265:A:H2'	2.21	0.41
31:DA:271(C):C:N3	31:DA:271(V):G:C2	2.88	0.41
31:DA:401:A:N6	31:DA:402:A:C6	2.89	0.41
31:DA:468:G:C6	31:DA:469:G:C4	3.09	0.41
31:DA:663:G:C5	31:DA:664:C:C4	3.09	0.41
31:DA:768:G:C5	31:DA:769:G:N7	2.88	0.41
31:DA:821:A:C2'	31:DA:946:G:H5''	2.51	0.41
31:DA:877:U:H2'	31:DA:878:A:H5''	2.02	0.41
31:DA:1131:G:C2	31:DA:1132:A:C4	3.09	0.41
31:DA:1152:C:H5''	46:DU:80:ILE:HG21	2.02	0.41
31:DA:1212:G:N2	31:DA:1236:G:O2'	2.42	0.41
31:DA:1259:G:O2'	31:DA:1260:G:H5'	2.21	0.41
31:DA:1394:U:C6	31:DA:1394:U:C3'	3.04	0.41
31:DA:1407:C:N3	31:DA:1596:A:C2	2.88	0.41
31:DA:1412:A:H3'	31:DA:1413:G:H8	1.83	0.41
31:DA:1493:C:H5	31:DA:2206:G:O2'	2.00	0.41
31:DA:1568:G:H5'	33:DD:60:ARG:HA	2.02	0.41
31:DA:1661:G:H2'	31:DA:1662:C:C6	2.56	0.41
31:DA:1833:U:C2	31:DA:1834:U:C6	3.08	0.41
31:DA:1850:G:C4	31:DA:1851:U:C6	3.09	0.41
31:DA:1911:U:H2'	31:DA:1918:A:N1	2.35	0.41
31:DA:2009:G:H4'	48:DW:40:ASN:O	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2029:G:H2'	31:DA:2030:A:H5'	2.01	0.41
31:DA:2264:C:C2	31:DA:2277:G:C2	3.09	0.41
31:DA:2287:A:H2	31:DA:2346:A:C2	2.36	0.41
31:DA:2341:G:H2'	31:DA:2342:C:O4'	2.21	0.41
31:DA:2385:C:H2'	31:DA:2386:C:H5'	2.02	0.41
31:DA:2386:C:C6	31:DA:2386:C:H3'	2.56	0.41
31:DA:2526:G:C6	31:DA:2527:C:N3	2.88	0.41
31:DA:2596:U:O5'	31:DA:2596:U:H6	2.04	0.41
31:DA:2715:C:H2'	31:DA:2716:U:C6	2.56	0.41
32:DB:110:G:C5	32:DB:111:G:N7	2.89	0.41
33:DD:248:SER:HB3	33:DD:252:TRP:CZ3	2.56	0.41
36:DG:15:VAL:CG1	36:DG:19:LEU:HD11	2.45	0.41
36:DG:51:ARG:HB3	36:DG:53:LEU:HD23	2.02	0.41
36:DG:94:LEU:HD23	36:DG:94:LEU:H	1.85	0.41
36:DG:94:LEU:CG	36:DG:99:MET:HA	2.51	0.41
36:DG:115:ARG:HB2	36:DG:116:ASP:H	1.71	0.41
40:DO:7:TYR:C	40:DO:8:LEU:HD22	2.41	0.41
41:DP:5:ASP:CG	41:DP:6:LEU:HD23	2.41	0.41
42:DQ:24:GLY:HA3	51:DZ:78:LYS:HD2	2.01	0.41
43:DR:62:ALA:O	43:DR:66:VAL:HG23	2.21	0.41
43:DR:75:LEU:O	43:DR:76:VAL:C	2.58	0.41
44:DS:90:GLY:O	44:DS:92:TYR:N	2.47	0.41
45:DT:128:GLU:OE1	45:DT:129:ARG:N	2.54	0.41
46:DU:57:PHE:CD2	46:DU:60:LEU:HD12	2.55	0.41
46:DU:92:ARG:CB	47:DV:11:GLN:NE2	2.57	0.41
47:DV:2:PHE:CB	47:DV:42:GLY:HA2	2.43	0.41
47:DV:60:GLU:OE2	47:DV:100:ARG:O	2.38	0.41
48:DW:89:ALA:O	48:DW:92:ARG:HB2	2.20	0.41
49:DX:21:PHE:HD1	49:DX:21:PHE:N	2.13	0.41
50:DY:47:LYS:HZ3	50:DY:47:LYS:CB	2.32	0.41
1:AA:60:A:OP1	1:AA:111:G:N2	2.54	0.41
1:AA:356:A:N3	1:AA:368:U:O2'	2.47	0.41
1:AA:397:A:N6	1:AA:548:G:N7	2.69	0.41
1:AA:568:G:C6	12:AL:5:PRO:HD3	2.55	0.41
1:AA:622:A:H2'	1:AA:623:C:O4'	2.21	0.41
1:AA:653:A:N3	1:AA:653:A:H2'	2.36	0.41
1:AA:693:G:O2'	1:AA:694:A:H5'	2.20	0.41
1:AA:956:U:C2'	1:AA:957:U:H5'	2.50	0.41
1:AA:1030(C):G:H2'	1:AA:1030(D):A:O4'	2.20	0.41
1:AA:1052:U:O4	1:AA:1200:C:C2	2.74	0.41
1:AA:1067:A:O2'	1:AA:1068:G:OP2	2.38	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.20	0.41
1:AA:1321:C:H6	1:AA:1321:C:OP2	2.04	0.41
2:AB:68:ILE:HD12	2:AB:68:ILE:N	2.36	0.41
2:AB:173:ALA:O	2:AB:176:GLU:N	2.54	0.41
3:AC:116:VAL:CG2	3:AC:202:ILE:HD11	2.39	0.41
3:AC:159:GLY:HA2	3:AC:193:TYR:CD1	2.56	0.41
4:AD:173:TRP:HB2	4:AD:187:ARG:HG2	2.03	0.41
6:AF:61:LEU:HD12	6:AF:61:LEU:N	2.34	0.41
6:AF:79:LEU:HD12	6:AF:88:VAL:HG11	2.02	0.41
7:AG:126:ASP:HB3	7:AG:132:GLY:HA2	2.03	0.41
8:AH:112:LEU:HB3	8:AH:133:LEU:CD2	2.51	0.41
10:AJ:7:LYS:HA	10:AJ:71:LEU:HD12	2.02	0.41
13:AM:61:GLU:HA	13:AM:66:LEU:HD11	2.03	0.41
15:AO:39:LEU:HD23	15:AO:39:LEU:HA	1.68	0.41
17:AQ:100:LYS:HA	17:AQ:100:LYS:HD3	1.86	0.41
31:BA:58:G:H2'	31:BA:59:U:O5'	2.21	0.41
31:BA:149:A:C6	31:BA:150:C:N3	2.89	0.41
31:BA:232:G:N2	31:BA:420:C:H5''	2.35	0.41
31:BA:572:A:C2	31:BA:573:G:H1'	2.55	0.41
31:BA:729:G:H2'	31:BA:1775:U:H1'	2.02	0.41
31:BA:794:G:H2'	31:BA:795:C:H6	1.86	0.41
31:BA:812:C:H5'	41:BP:25:SER:HB2	2.02	0.41
31:BA:857:C:N3	31:BA:858:U:C4	2.89	0.41
31:BA:867:C:C4	31:BA:868:U:C4	3.09	0.41
31:BA:1140:C:O3'	39:BN:25:ARG:NH1	2.52	0.41
31:BA:1272:A:H3'	31:BA:1273:U:H5''	2.03	0.41
31:BA:1282:U:H2'	31:BA:1283:G:O4'	2.21	0.41
31:BA:1655:A:H3'	31:BA:1656:C:C6	2.56	0.41
31:BA:1660:C:N3	31:BA:2001:A:C6	2.88	0.41
31:BA:1842:G:N2	31:BA:1901:A:C4	2.89	0.41
31:BA:2031:A:H4'	31:BA:2032:G:C5'	2.51	0.41
31:BA:2065:C:H1'	31:BA:2449:U:O2	2.21	0.41
31:BA:2286:A:H4'	31:BA:2287:A:C8	2.56	0.41
31:BA:2286:A:H5'	31:BA:2287:A:O4'	2.20	0.41
31:BA:2307:G:N2	31:BA:2308:G:C5'	2.80	0.41
31:BA:2318:G:O2'	31:BA:2319:G:OP1	2.39	0.41
31:BA:2472:G:C6	31:BA:2475:C:C2	3.09	0.41
31:BA:2657:A:H5'	31:BA:2658:C:OP2	2.20	0.41
31:BA:2660:A:H5'	31:BA:2661:G:H21	1.81	0.41
31:BA:2844:G:H2'	31:BA:2845:G:O4'	2.20	0.41
32:BB:17:C:N4	32:BB:109:C:O2	2.49	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:55:U:C2	32:BB:56:G:C8	3.08	0.41
33:BD:16:MET:CG	33:BD:211:ARG:HH21	2.34	0.41
33:BD:25:THR:CB	33:BD:82:ILE:H	2.26	0.41
33:BD:32:SER:OG	33:BD:33:LEU:N	2.53	0.41
33:BD:83:GLU:OE1	33:BD:104:TYR:HE2	2.03	0.41
33:BD:240:ALA:HA	33:BD:241:PRO:HD3	1.88	0.41
35:BF:53:THR:O	35:BF:55:GLY:N	2.53	0.41
35:BF:102:PRO:O	35:BF:105:VAL:N	2.50	0.41
36:BG:144:ILE:HG23	36:BG:144:ILE:O	2.20	0.41
42:BQ:17:LEU:HD21	42:BQ:41:TRP:HE1	1.85	0.41
42:BQ:17:LEU:HD12	42:BQ:39:PRO:HB2	2.02	0.41
42:BQ:134:ARG:NH1	51:BZ:119:GLU:CD	2.72	0.41
45:BT:83:ILE:HG13	45:BT:84:GLN:H	1.86	0.41
46:BU:69:CYS:C	46:BU:71:GLN:H	2.22	0.41
47:BV:1:MET:HB3	47:BV:2:PHE:H	1.77	0.41
48:BW:24:ILE:HD12	48:BW:71:VAL:HG11	2.02	0.41
50:BY:8:LYS:HE3	50:BY:74:PRO:HD3	2.03	0.41
51:BZ:151:HIS:HB3	51:BZ:169:GLU:C	2.41	0.41
1:CA:16:A:C2	1:CA:17:U:C6	3.08	0.41
1:CA:120:A:C6	1:CA:122:G:C2	3.08	0.41
1:CA:167:G:H2'	1:CA:168:G:C8	2.55	0.41
1:CA:559:A:N7	1:CA:561:U:C4	2.89	0.41
1:CA:689:C:H2'	1:CA:690:G:O4'	2.20	0.41
1:CA:734:G:O2'	18:CR:71:LYS:HD3	2.21	0.41
1:CA:821:G:O2'	1:CA:822:C:H5'	2.21	0.41
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.39	0.41
1:CA:1075:C:H6	1:CA:1075:C:O5'	2.03	0.41
1:CA:1080:A:C5'	5:CE:16:THR:HG21	2.47	0.41
1:CA:1108:G:H2'	1:CA:1109:C:H5'	2.03	0.41
1:CA:1126:U:OP1	1:CA:1126:U:O4'	2.38	0.41
2:CB:41:ILE:O	2:CB:41:ILE:HG22	2.21	0.41
3:CC:148:GLY:HA3	3:CC:203:PHE:HB3	2.03	0.41
4:CD:89:THR:O	4:CD:90:GLY:C	2.59	0.41
6:CF:15:ASP:C	6:CF:17:SER:N	2.74	0.41
8:CH:13:ILE:O	8:CH:14:ARG:C	2.59	0.41
12:CL:27:LEU:O	12:CL:28:LYS:C	2.59	0.41
15:CO:17:ARG:CG	15:CO:17:ARG:NH1	2.81	0.41
17:CQ:56:VAL:HG12	17:CQ:77:VAL:HB	2.02	0.41
18:CR:85:LEU:HD12	18:CR:86:VAL:N	2.34	0.41
20:CT:54:LYS:HA	20:CT:57:ARG:CZ	2.51	0.41
20:CT:75:ASN:O	20:CT:78:ALA:HB3	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:17:LYS:O	25:D3:18:ASP:C	2.59	0.41
28:D6:25:LYS:HE3	28:D6:25:LYS:HB2	1.81	0.41
29:D7:18:PHE:CE2	29:D7:22:MET:HG3	2.55	0.41
31:DA:88:G:N2	31:DA:89:G:C4	2.89	0.41
31:DA:513:A:C2	31:DA:514:A:C5	3.08	0.41
31:DA:644:A:C2	31:DA:2369:A:H1'	2.55	0.41
31:DA:694:U:H2'	31:DA:695:G:O5'	2.21	0.41
31:DA:707:G:H2'	31:DA:708:C:O4'	2.20	0.41
31:DA:795:C:C2	31:DA:796:C:C5	3.09	0.41
31:DA:832:G:C6	31:DA:833:U:O4	2.73	0.41
31:DA:833:U:H1'	41:DP:55:ARG:HH11	1.86	0.41
31:DA:870:A:OP1	42:DQ:7:MET:CE	2.68	0.41
31:DA:915:C:C4	31:DA:916:G:C5	3.09	0.41
31:DA:1000:A:C6	31:DA:1155:A:C8	3.09	0.41
31:DA:1332:G:N1	31:DA:1609:A:O2'	2.53	0.41
31:DA:1337:G:C5	31:DA:1338:G:N7	2.89	0.41
31:DA:1682:G:C2	31:DA:1683:C:C2	3.08	0.41
31:DA:1782:C:H2'	31:DA:2608:G:O2'	2.20	0.41
31:DA:1791:A:H3'	31:DA:1792:G:C8	2.52	0.41
31:DA:1796:U:H4'	33:DD:256:GLY:CA	2.51	0.41
31:DA:1824:G:H2'	31:DA:1825:A:H5'	2.02	0.41
31:DA:1930:G:N2	31:DA:1968:G:H2'	2.36	0.41
31:DA:2046:G:C4	31:DA:2047:U:C5	3.09	0.41
31:DA:2260:C:H2'	31:DA:2261:C:H6	1.86	0.41
31:DA:2261:C:H5'	31:DA:2388:A:H4'	2.02	0.41
31:DA:2464:C:N3	31:DA:2487:G:C2	2.89	0.41
31:DA:2494:G:H2'	31:DA:2495:G:H8	1.84	0.41
31:DA:2619:C:H2'	31:DA:2620:C:C6	2.55	0.41
31:DA:2762:G:C8	31:DA:2762:G:C5'	3.03	0.41
31:DA:2830:G:C2'	31:DA:2831:G:H5'	2.50	0.41
32:DB:58:A:C5'	32:DB:59:A:OP2	2.68	0.41
33:DD:31:LYS:HA	33:DD:31:LYS:NZ	2.35	0.41
34:DE:116:VAL:HG21	34:DE:122:PHE:CD2	2.56	0.41
35:DF:81:PRO:CB	35:DF:89:VAL:HG23	2.50	0.41
35:DF:126:VAL:HG11	35:DF:142:TRP:HH2	1.85	0.41
36:DG:71:THR:HB	36:DG:89:GLY:C	2.41	0.41
39:DN:37:LYS:O	46:DU:67:ALA:HB2	2.21	0.41
41:DP:30:THR:O	41:DP:33:ARG:N	2.23	0.41
42:DQ:9:TYR:O	42:DQ:10:ARG:HG3	2.21	0.41
44:DS:14:VAL:O	44:DS:15:ARG:C	2.59	0.41
45:DT:8:LYS:O	45:DT:11:GLU:HB2	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:21:ARG:HG2	47:DV:93:GLU:CG	2.51	0.41
47:DV:43:GLU:CA	47:DV:48:GLY:CA	2.99	0.41
47:DV:57:VAL:HG12	47:DV:57:VAL:O	2.21	0.41
47:DV:73:SER:HB2	47:DV:75:PHE:CZ	2.56	0.41
1:AA:37:U:C2'	1:AA:38:G:H5'	2.51	0.41
1:AA:51:A:H4'	1:AA:52:G:C5'	2.51	0.41
1:AA:68:G:C2	1:AA:69:G:C4	3.09	0.41
1:AA:142:G:N3	1:AA:143:A:C8	2.89	0.41
1:AA:189:G:N1	1:AA:189(L):G:C2	2.88	0.41
1:AA:397:A:N3	1:AA:397:A:H3'	2.35	0.41
1:AA:430:A:H2'	1:AA:431:A:C5'	2.32	0.41
1:AA:445:G:C6	1:AA:490:G:C6	3.09	0.41
1:AA:565:U:C5	1:AA:566:G:C8	3.09	0.41
1:AA:618:C:H3'	1:AA:619:U:C5'	2.50	0.41
1:AA:644:G:O2'	1:AA:645:C:H5'	2.21	0.41
1:AA:716:A:C2'	1:AA:717:C:O5'	2.69	0.41
1:AA:950:U:H5''	13:AM:102:ARG:HH22	1.85	0.41
1:AA:978:A:C5'	1:AA:979:C:OP2	2.68	0.41
1:AA:1058:G:C2	1:AA:1059:C:C2	3.09	0.41
1:AA:1067:A:H1'	1:AA:1068:G:O4'	2.20	0.41
1:AA:1387:G:C6	1:AA:1388:C:N4	2.89	0.41
1:AA:1420:C:O5'	1:AA:1420:C:H6	2.03	0.41
1:AA:1430:C:C2	1:AA:1471:G:C2	3.08	0.41
2:AB:239:VAL:O	2:AB:239:VAL:CG1	2.67	0.41
3:AC:17:ASP:O	3:AC:18:TRP:C	2.59	0.41
3:AC:182:ILE:HG12	3:AC:203:PHE:CD1	2.56	0.41
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.51	0.41
7:AG:26:PHE:O	7:AG:30:ILE:HG12	2.20	0.41
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.21	0.41
9:AI:116:LYS:C	9:AI:118:LYS:N	2.73	0.41
10:AJ:5:ARG:HG3	10:AJ:73:ASP:OD1	2.20	0.41
11:AK:32:ILE:HD11	11:AK:68:ALA:CB	2.45	0.41
11:AK:74:ALA:C	11:AK:76:GLY:H	2.23	0.41
12:AL:21:LYS:HD2	12:AL:21:LYS:N	2.36	0.41
12:AL:27:LEU:O	12:AL:28:LYS:C	2.59	0.41
12:AL:83:VAL:HG13	12:AL:100:ILE:HG23	2.03	0.41
12:AL:93:LEU:O	12:AL:94:PRO:C	2.59	0.41
12:AL:113:ARG:HG3	12:AL:114:LYS:H	1.84	0.41
13:AM:68:GLY:H	13:AM:71:ARG:CB	2.34	0.41
14:AN:51:GLY:C	14:AN:53:LEU:N	2.73	0.41
15:AO:5:LYS:H	15:AO:5:LYS:HG3	1.56	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:6:LEU:HB3	16:AP:17:TYR:HD2	1.86	0.41
19:AS:42:PRO:O	19:AS:43:GLU:CB	2.66	0.41
22:B0:20:ARG:HE	31:BA:2271:G:H5''	1.81	0.41
23:B1:32:LYS:HG2	31:BA:2396:G:HO2'	1.85	0.41
24:B2:14:ARG:HG2	24:B2:15:LYS:N	2.33	0.41
24:B2:57:ILE:O	24:B2:57:ILE:HG13	2.19	0.41
24:B2:60:LEU:O	24:B2:61:LEU:HB2	2.21	0.41
25:B3:8:LEU:HD22	25:B3:9:VAL:N	2.36	0.41
25:B3:22:ALA:O	25:B3:26:LEU:HG	2.20	0.41
27:B5:16:ARG:NH1	27:B5:17:ASP:CG	2.73	0.41
27:B5:47:PRO:C	27:B5:48:GLU:HG3	2.41	0.41
28:B6:18:ARG:HD3	28:B6:18:ARG:N	2.34	0.41
28:B6:30:THR:O	28:B6:31:PRO:O	2.39	0.41
28:B6:44:ARG:HB3	28:B6:45:LYS:H	1.57	0.41
30:B8:6:THR:HB	30:B8:63:PRO:HG3	2.03	0.41
30:B8:27:THR:CA	41:BP:62:LEU:HD11	2.50	0.41
31:BA:71:A:H4'	31:BA:72:U:C5'	2.51	0.41
31:BA:72:U:C4	31:BA:112:U:H4'	2.56	0.41
31:BA:181:A:H1'	31:BA:435:C:H5'	2.02	0.41
31:BA:199:A:C8	31:BA:2433:A:N6	2.88	0.41
31:BA:316:C:H2'	31:BA:317:G:O5'	2.21	0.41
31:BA:329:G:OP2	50:BY:71:LYS:CE	2.68	0.41
31:BA:336:C:H2'	31:BA:337:C:H6	1.86	0.41
31:BA:510:C:H2'	31:BA:511:U:O4'	2.21	0.41
31:BA:543:C:N4	31:BA:551:G:N1	2.69	0.41
31:BA:573:G:H1	31:BA:2030:A:H3'	1.82	0.41
31:BA:601:C:H2'	31:BA:602:G:O4'	2.20	0.41
31:BA:660:G:C6	31:BA:661:C:C4	3.09	0.41
31:BA:691:C:H4'	33:BD:43:ARG:HG2	2.02	0.41
31:BA:856:C:O2'	31:BA:857:C:OP1	2.35	0.41
31:BA:904:C:C5'	31:BA:904:C:C6	3.03	0.41
31:BA:921:G:C6	31:BA:922:U:C4	3.08	0.41
31:BA:1005:C:OP2	31:BA:1011:G:H2'	2.21	0.41
31:BA:1019:U:OP1	31:BA:1035:U:O2'	2.19	0.41
31:BA:1212:G:N2	31:BA:1236:G:O2'	2.46	0.41
31:BA:1227:G:H5''	46:BU:16:LYS:NZ	2.35	0.41
31:BA:1278:A:H2'	31:BA:1279:G:H8	1.86	0.41
31:BA:1403:C:C2'	31:BA:1404:C:O5'	2.69	0.41
31:BA:1417:C:H2'	31:BA:1418:G:H5'	2.02	0.41
31:BA:1510:G:H2'	31:BA:1510:G:N3	2.36	0.41
31:BA:1510:G:C4	31:BA:1511:C:C5	3.08	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1531:C:C3'	31:BA:1532:C:H5'	2.49	0.41
31:BA:1635:G:O2'	31:BA:1636:C:H5'	2.21	0.41
31:BA:1657:C:O2'	31:BA:1658:C:H5'	2.21	0.41
31:BA:1678:G:H21	31:BA:1989:G:N2	2.14	0.41
31:BA:1694:C:O2	31:BA:1694:C:C2'	2.69	0.41
31:BA:1695:G:C8	33:BD:8:PRO:HG2	2.56	0.41
31:BA:1704:G:O2'	31:BA:1705:G:H5'	2.21	0.41
31:BA:1741:A:H2'	31:BA:1742:G:C4	2.54	0.41
31:BA:1742:G:N7	31:BA:1743:C:N3	2.69	0.41
31:BA:1779:U:H5	31:BA:1784:A:C8	2.29	0.41
31:BA:1876:A:C2	31:BA:1877:A:C5	3.09	0.41
31:BA:1902:C:O2'	33:BD:244:ARG:CB	2.55	0.41
31:BA:1907:G:O2'	31:BA:1908:C:H5'	2.21	0.41
31:BA:1962:C:H6	31:BA:1962:C:OP2	2.04	0.41
31:BA:2023:G:C2	31:BA:2024:G:C8	3.09	0.41
31:BA:2050:C:H1'	34:BE:156:MET:HE1	2.03	0.41
31:BA:2083:G:C6	31:BA:2084:C:C4	3.08	0.41
31:BA:2282:G:H8	31:BA:2282:G:H2'	1.75	0.41
31:BA:2321:G:H2'	31:BA:2321:G:N3	2.36	0.41
31:BA:2343:C:H4'	31:BA:2373:G:O3'	2.21	0.41
31:BA:2406:U:O5'	31:BA:2406:U:H2'	2.21	0.41
31:BA:2592:G:C5	31:BA:2593:U:C5	3.09	0.41
31:BA:2645:G:H3'	31:BA:2646:C:H5'	2.02	0.41
31:BA:2679:A:H2'	31:BA:2680:C:O4'	2.21	0.41
31:BA:2689:U:H4'	31:BA:2690:C:OP2	2.20	0.41
31:BA:2747:G:C6	31:BA:2754:U:C5	3.09	0.41
31:BA:2758:A:C2'	31:BA:2759:G:H5'	2.50	0.41
31:BA:2776:A:H4'	31:BA:2777:G:O5'	2.21	0.41
31:BA:2778:A:H5''	31:BA:2778:A:H8	1.85	0.41
31:BA:2783:G:H2'	31:BA:2784:C:C6	2.55	0.41
31:BA:2826:A:C6	31:BA:2827:C:C4	3.09	0.41
32:BB:13:A:N6	32:BB:70:C:H5'	2.35	0.41
32:BB:73:A:C8	32:BB:104:U:O4	2.74	0.41
32:BB:74:U:C3'	32:BB:75:G:C5'	2.98	0.41
32:BB:116:G:C2	32:BB:117:G:N7	2.89	0.41
33:BD:6:PHE:N	33:BD:6:PHE:CD1	2.86	0.41
33:BD:64:ILE:O	33:BD:64:ILE:CG1	2.68	0.41
33:BD:71:ASP:CG	33:BD:103:ARG:HH22	2.23	0.41
33:BD:127:VAL:HA	33:BD:193:VAL:HG12	2.03	0.41
34:BE:36:ARG:NH1	34:BE:85:ASN:ND2	2.69	0.41
34:BE:96:PHE:O	34:BE:175:VAL:HG11	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:159:HIS:CE1	34:BE:162:ALA:HB3	2.55	0.41
35:BF:64:ILE:HG13	35:BF:65:TRP:CD2	2.56	0.41
35:BF:126:VAL:HG13	35:BF:193:VAL:CG1	2.50	0.41
35:BF:178:PRO:HB3	35:BF:198:ALA:CB	2.50	0.41
36:BG:62:LEU:O	36:BG:143:GLU:HB2	2.21	0.41
36:BG:135:LEU:HD12	36:BG:135:LEU:N	2.36	0.41
37:BH:105:LEU:HD13	37:BH:105:LEU:N	2.36	0.41
38:BI:5:LEU:HD21	38:BI:19:VAL:CG1	2.50	0.41
41:BP:6:LEU:HD21	41:BP:9:ASN:O	2.20	0.41
42:BQ:25:ASP:HB3	42:BQ:102:VAL:HG23	2.02	0.41
42:BQ:42:ILE:HD11	42:BQ:127:ILE:HD11	2.03	0.41
43:BR:22:ARG:O	43:BR:24:GLN:N	2.54	0.41
43:BR:35:THR:HA	43:BR:112:ALA:O	2.21	0.41
44:BS:66:ALA:C	44:BS:69:VAL:CG1	2.88	0.41
46:BU:22:LYS:HA	46:BU:22:LYS:HD3	1.66	0.41
46:BU:101:ARG:O	46:BU:102:GLU:O	2.39	0.41
47:BV:15:GLU:OE1	47:BV:16:PRO:HD2	2.20	0.41
47:BV:25:LEU:C	47:BV:27:ALA:N	2.73	0.41
47:BV:94:LEU:HD23	47:BV:94:LEU:C	2.41	0.41
48:BW:12:ILE:HG23	48:BW:17:VAL:CG2	2.50	0.41
48:BW:74:ALA:HA	48:BW:104:THR:O	2.21	0.41
49:BX:7:VAL:HG11	49:BX:39:ILE:HB	2.03	0.41
49:BX:35:THR:HB	49:BX:75:ASP:CG	2.38	0.41
50:BY:46:LYS:HB2	50:BY:47:LYS:H	1.56	0.41
50:BY:88:LYS:HB3	50:BY:90:LEU:HG	2.01	0.41
51:BZ:60:GLU:HA	51:BZ:65:GLN:O	2.21	0.41
1:CA:51:A:C2	1:CA:116:A:N3	2.89	0.41
1:CA:142:G:N2	1:CA:143:A:C8	2.89	0.41
1:CA:150:C:C5	1:CA:170:U:C4	3.09	0.41
1:CA:189(L):G:C6	1:CA:190:U:O4	2.74	0.41
1:CA:257:G:C4	1:CA:258:G:C8	3.09	0.41
1:CA:265:G:O2'	17:CQ:67:LYS:N	2.54	0.41
1:CA:266:G:H8	1:CA:266:G:H2'	1.74	0.41
1:CA:445:G:C6	1:CA:490:G:N1	2.89	0.41
1:CA:513:C:O2	1:CA:513:C:H2'	2.20	0.41
1:CA:515:G:C4	1:CA:537:G:N2	2.88	0.41
1:CA:565:U:C5	1:CA:566:G:C8	3.09	0.41
1:CA:625:G:C5	1:CA:626:U:C5	3.09	0.41
1:CA:774:G:C2	1:CA:775:G:N9	2.89	0.41
1:CA:832:C:N3	1:CA:855:G:C2	2.89	0.41
1:CA:922:G:O4'	5:CE:19:MET:C	2.59	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1052:U:O4	1:CA:1200:C:C2	2.74	0.41
1:CA:1065:U:H4'	1:CA:1066:C:O5'	2.21	0.41
1:CA:1277:C:C3'	1:CA:1278:U:H5'	2.50	0.41
1:CA:1311:G:H2'	1:CA:1312:G:O4'	2.21	0.41
1:CA:1352:C:N3	1:CA:1371:G:C6	2.89	0.41
1:CA:1405:G:O2'	1:CA:1406:U:H5'	2.21	0.41
1:CA:1433:A:C4	1:CA:1468:A:C2	3.08	0.41
1:CA:1475:G:H4'	31:DA:1689:A:C4'	2.47	0.41
2:CB:9:GLU:O	2:CB:13:ALA:HB3	2.21	0.41
2:CB:17:PHE:O	2:CB:18:GLY:O	2.39	0.41
2:CB:32:ILE:HD11	2:CB:34:ALA:O	2.21	0.41
2:CB:87:ARG:HH21	2:CB:233:SER:HB3	1.84	0.41
3:CC:11:ARG:O	3:CC:14:ILE:N	2.54	0.41
4:CD:79:PHE:CE2	4:CD:83:SER:OG	2.74	0.41
4:CD:106:TYR:CE1	4:CD:113:SER:CA	3.03	0.41
4:CD:119:GLN:CG	4:CD:123:HIS:HD2	2.21	0.41
5:CE:146:ALA:C	5:CE:148:VAL:H	2.24	0.41
5:CE:146:ALA:O	5:CE:148:VAL:N	2.54	0.41
6:CF:3:ARG:NH1	6:CF:38:GLU:OE1	2.53	0.41
6:CF:70:ASP:OD1	6:CF:70:ASP:N	2.53	0.41
7:CG:108:ALA:O	7:CG:111:ARG:HB2	2.21	0.41
7:CG:136:LYS:O	7:CG:140:ASP:HB2	2.21	0.41
8:CH:113:SER:H	8:CH:134:ILE:HG12	1.86	0.41
10:CJ:49:VAL:HG11	14:CN:41:ARG:O	2.20	0.41
11:CK:120:ARG:HA	11:CK:121:PRO:HD3	1.86	0.41
12:CL:60:LEU:HD23	12:CL:64:TYR:HB3	2.03	0.41
13:CM:37:THR:HG22	13:CM:59:TYR:CB	2.50	0.41
16:CP:6:LEU:HB3	16:CP:17:TYR:HD2	1.84	0.41
16:CP:45:THR:HG23	16:CP:46:PRO:CD	2.51	0.41
17:CQ:3:LYS:O	17:CQ:4:LYS:C	2.59	0.41
17:CQ:31:LEU:HD12	17:CQ:31:LEU:O	2.21	0.41
20:CT:48:LYS:O	20:CT:49:ALA:HB2	2.21	0.41
23:D1:66:HIS:O	23:D1:67:ILE:C	2.59	0.41
23:D1:88:LYS:O	23:D1:92:LYS:N	2.54	0.41
24:D2:34:GLU:O	24:D2:34:GLU:CG	2.68	0.41
24:D2:54:LYS:CA	24:D2:56:GLN:H	2.34	0.41
25:D3:14:GLY:O	31:DA:969:U:H4'	2.21	0.41
27:D5:7:PRO:HA	31:DA:2615:U:C6	2.55	0.41
27:D5:55:ARG:HD3	27:D5:55:ARG:HA	1.84	0.41
29:D7:18:PHE:CD2	29:D7:18:PHE:C	2.93	0.41
30:D8:8:LYS:O	30:D8:12:LYS:HB2	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:8:LYS:HD2	30:D8:8:LYS:HA	1.97	0.41
30:D8:25:MET:CB	41:DP:62:LEU:CD2	2.98	0.41
31:DA:7:G:H1	31:DA:2896:C:H42	1.67	0.41
31:DA:72:U:C4	31:DA:112:U:H4'	2.56	0.41
31:DA:257:A:H2'	31:DA:258:G:O4'	2.21	0.41
31:DA:384:U:C6	31:DA:385:C:C5	3.09	0.41
31:DA:479:A:C2	31:DA:480:A:C5	3.09	0.41
31:DA:554:U:O2'	31:DA:555:U:H5'	2.20	0.41
31:DA:621:A:H2'	31:DA:622:G:C5'	2.51	0.41
31:DA:628:G:H2'	31:DA:629:G:C8	2.55	0.41
31:DA:667:U:C3'	31:DA:668:G:H5'	2.50	0.41
31:DA:729:G:P	33:DD:208:LYS:NZ	2.94	0.41
31:DA:730:C:OP2	31:DA:731:C:OP2	2.39	0.41
31:DA:749:C:H4'	31:DA:1271:G:N3	2.35	0.41
31:DA:778:G:H2'	31:DA:779:U:O4'	2.21	0.41
31:DA:836:G:C5	31:DA:837:C:N4	2.89	0.41
31:DA:921:G:C5	31:DA:922:U:C4	3.09	0.41
31:DA:1021:A:O2'	31:DA:1123:C:H5''	2.20	0.41
31:DA:1142(A):A:C8	31:DA:1144:G:C5	3.09	0.41
31:DA:1337:G:H2'	31:DA:1338:G:C8	2.51	0.41
31:DA:1366:A:C6	31:DA:1367:A:C4	3.07	0.41
31:DA:1397:U:HO2'	31:DA:1398:C:P	2.44	0.41
31:DA:1405:U:N3	31:DA:1406:U:C4	2.89	0.41
31:DA:1408:C:C2	31:DA:1595:G:C2	3.09	0.41
31:DA:1420:U:H6	31:DA:1420:U:H2'	1.49	0.41
31:DA:1485:G:C2'	31:DA:1486:A:H5'	2.51	0.41
31:DA:1526:G:O6	31:DA:1527:G:C2	2.74	0.41
31:DA:1558:A:H4'	31:DA:1559:G:O5'	2.20	0.41
31:DA:1568:G:OP2	33:DD:63:ARG:NH2	2.54	0.41
31:DA:1587:A:H2'	31:DA:1588:C:O4'	2.21	0.41
31:DA:1711:C:H2'	31:DA:1712:C:C6	2.56	0.41
31:DA:1817:G:C6	31:DA:1818:U:C4	3.08	0.41
31:DA:1942:C:C4	31:DA:1943:U:C4	3.09	0.41
31:DA:1973:G:O2'	31:DA:1974:C:H5'	2.21	0.41
31:DA:2019:A:C4'	46:DU:34:LYS:HD2	2.51	0.41
31:DA:2026:C:O2	31:DA:2026:C:H2'	2.20	0.41
31:DA:2068:U:C2	31:DA:2430:A:C2	3.01	0.41
31:DA:2304:G:H22	31:DA:2312:U:H3	1.69	0.41
31:DA:2333:A:H2'	31:DA:2334:G:OP2	2.21	0.41
31:DA:2346:A:O4'	31:DA:2383:G:C8	2.74	0.41
31:DA:2422:A:H4'	31:DA:2423:U:OP1	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2452:C:N4	31:DA:2453:A:C6	2.89	0.41
31:DA:2467:C:O2'	31:DA:2468:G:H5'	2.21	0.41
31:DA:2541:A:H4'	31:DA:2764:A:N1	2.36	0.41
31:DA:2550:G:C6	31:DA:2551:C:C4	3.08	0.41
31:DA:2652:C:C2'	31:DA:2653:U:C5'	2.91	0.41
31:DA:2818:G:H1'	31:DA:2836:U:O2'	2.21	0.41
32:DB:6:C:O2'	44:DS:29:PHE:CE1	2.54	0.41
32:DB:9:G:C2	32:DB:113:G:C5	3.09	0.41
32:DB:49:C:H2'	32:DB:50:G:H8	1.86	0.41
32:DB:73:A:N1	51:DZ:34:ASN:ND2	2.68	0.41
32:DB:81:G:O6	32:DB:96:U:O2	2.38	0.41
33:DD:70:TRP:CZ3	33:DD:146:GLU:OE2	2.71	0.41
34:DE:7:VAL:HG12	34:DE:51:PHE:CE1	2.56	0.41
34:DE:52:LEU:HD22	34:DE:76:ARG:HD2	2.01	0.41
34:DE:95:ILE:HG22	34:DE:96:PHE:CD1	2.56	0.41
34:DE:122:PHE:N	34:DE:122:PHE:CD1	2.88	0.41
35:DF:24:LEU:CB	35:DF:25:PRO:HD2	2.25	0.41
35:DF:135:LYS:O	35:DF:138:GLU:HB2	2.21	0.41
38:DI:3:VAL:HG12	38:DI:38:LEU:CA	2.43	0.41
38:DI:31:LEU:HD21	38:DI:38:LEU:HG	2.03	0.41
39:DN:62:VAL:CG2	39:DN:66:LYS:HG3	2.51	0.41
39:DN:117:PHE:CD2	39:DN:117:PHE:C	2.94	0.41
40:DO:2:ILE:HG23	40:DO:6:THR:HB	2.03	0.41
40:DO:20:MET:HE3	40:DO:44:LYS:CE	2.50	0.41
40:DO:104:ARG:C	40:DO:106:LEU:N	2.73	0.41
40:DO:106:LEU:HA	40:DO:106:LEU:HD23	1.37	0.41
41:DP:27:HIS:CD2	41:DP:27:HIS:C	2.94	0.41
41:DP:98:GLU:CA	41:DP:101:VAL:CG1	2.99	0.41
41:DP:147:LEU:HB2	41:DP:148:LEU:H	1.49	0.41
42:DQ:17:LEU:N	42:DQ:17:LEU:CD2	2.80	0.41
43:DR:97:VAL:HA	43:DR:113:LEU:O	2.21	0.41
44:DS:53:SER:O	44:DS:56:LEU:N	2.54	0.41
44:DS:58:LEU:HD21	44:DS:68:GLN:OE1	2.21	0.41
44:DS:106:ARG:O	44:DS:107:GLU:HB2	2.21	0.41
45:DT:28:VAL:HG21	45:DT:46:GLU:HG3	2.03	0.41
46:DU:80:ILE:HG22	46:DU:81:HIS:N	2.35	0.41
46:DU:82:GLY:O	46:DU:86:ALA:HB2	2.21	0.41
47:DV:1:MET:HB3	47:DV:2:PHE:H	1.74	0.41
47:DV:15:GLU:CB	47:DV:16:PRO:HD2	2.49	0.41
48:DW:17:VAL:O	48:DW:18:ARG:C	2.58	0.41
48:DW:23:LEU:HA	48:DW:23:LEU:HD12	1.61	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:60:ARG:HD3	49:DX:60:ARG:N	2.28	0.41
50:DY:9:LYS:O	50:DY:28:LYS:HE3	2.20	0.41
50:DY:11:ASP:OD1	50:DY:11:ASP:C	2.59	0.41
50:DY:26:LYS:O	50:DY:27:VAL:C	2.58	0.41
50:DY:75:ILE:HD13	50:DY:76:CYS:H	1.83	0.41
51:DZ:56:VAL:O	51:DZ:57:ILE:HD13	2.20	0.41
1:AA:134:A:N6	16:AP:25:ARG:NH1	2.52	0.41
1:AA:244:U:O4	1:AA:906:G:H1'	2.21	0.41
1:AA:271:C:H2'	1:AA:272:C:C6	2.53	0.41
1:AA:552:U:H4'	12:AL:86:ARG:CG	2.51	0.41
1:AA:577:G:C8	1:AA:816:A:N1	2.89	0.41
1:AA:577:G:H1'	1:AA:816:A:N3	2.36	0.41
1:AA:599:C:O2	1:AA:640:A:C2	2.74	0.41
1:AA:716:A:O5'	1:AA:716:A:H8	2.04	0.41
1:AA:865:A:H2	1:AA:918:A:C4'	2.31	0.41
1:AA:909:A:C8	1:AA:910:C:C5	3.09	0.41
1:AA:921:U:C2	1:AA:922:G:N7	2.87	0.41
1:AA:927:G:H1	1:AA:1390:U:H3	1.68	0.41
1:AA:949:A:C2	1:AA:1233:G:N3	2.89	0.41
1:AA:993:G:N3	1:AA:993:G:H2'	2.36	0.41
1:AA:1074:G:C4	1:AA:1102:A:C2	3.09	0.41
1:AA:1320:C:H5'	19:AS:70:LYS:HG2	2.02	0.41
1:AA:1418:A:C2	31:BA:1948:G:C2	3.09	0.41
1:AA:1527:C:H6	1:AA:1527:C:O5'	2.04	0.41
2:AB:221:LEU:HD22	2:AB:221:LEU:HA	1.80	0.41
5:AE:71:LEU:O	5:AE:72:GLN:CG	2.69	0.41
6:AF:39:LYS:O	6:AF:40:VAL:CB	2.66	0.41
6:AF:73:ASN:O	6:AF:76:ALA:HB3	2.21	0.41
10:AJ:98:ILE:HD12	10:AJ:98:ILE:N	2.36	0.41
17:AQ:87:LYS:HE2	17:AQ:87:LYS:HA	2.03	0.41
23:B1:94:LEU:O	23:B1:95:LEU:CG	2.63	0.41
24:B2:32:LEU:HA	24:B2:37:PHE:CB	2.51	0.41
24:B2:49:LYS:O	24:B2:53:LEU:O	2.38	0.41
30:B8:32:LEU:HD23	30:B8:35:GLN:C	2.41	0.41
31:BA:47:C:H6	31:BA:47:C:O5'	2.04	0.41
31:BA:58:G:H1	31:BA:69:C:N4	2.15	0.41
31:BA:262:A:H2'	31:BA:263:C:O4'	2.21	0.41
31:BA:330:A:O2'	31:BA:331:A:C8	2.73	0.41
31:BA:448:U:C3'	31:BA:449:A:C5'	2.96	0.41
31:BA:477:A:H2'	31:BA:478:A:C8	2.56	0.41
31:BA:563:G:H1	31:BA:578:A:N6	2.18	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:627:A:N1	31:BA:636:G:O2'	2.45	0.41
31:BA:689:A:H2'	31:BA:690:G:C8	2.55	0.41
31:BA:764:A:C5	31:BA:781:A:N1	2.89	0.41
31:BA:836:G:H2'	31:BA:837:C:H6	1.80	0.41
31:BA:892:G:N7	31:BA:893:C:C4	2.89	0.41
31:BA:939:G:C5	31:BA:940:G:N7	2.89	0.41
31:BA:946:G:O2'	31:BA:947:G:H5'	2.21	0.41
31:BA:1170:G:OP2	31:BA:1170:G:C8	2.74	0.41
31:BA:1363:C:H2'	31:BA:1364:G:H8	1.86	0.41
31:BA:1441:G:N3	31:BA:1442:G:C8	2.89	0.41
31:BA:1526:G:O6	31:BA:1527:G:C2	2.73	0.41
31:BA:1694:C:O2'	31:BA:1695:G:C5	2.74	0.41
31:BA:1827:C:C2'	31:BA:1828:G:H5'	2.51	0.41
31:BA:1851:U:H2'	31:BA:1852:C:O4'	2.20	0.41
31:BA:1996:C:P	40:BO:31:LYS:HZ1	2.44	0.41
31:BA:2006:C:C2	31:BA:2007:C:C5	3.09	0.41
31:BA:2222:G:O2'	33:BD:148:GLU:HG2	2.21	0.41
31:BA:2399:G:C6	31:BA:2400:G:C5	3.09	0.41
31:BA:2607:G:C6	31:BA:2608:G:C6	3.09	0.41
32:BB:53:A:C5	32:BB:54:G:C8	3.09	0.41
34:BE:37:ARG:HD2	34:BE:80:GLU:OE2	2.20	0.41
34:BE:52:LEU:O	34:BE:53:PRO:O	2.39	0.41
37:BH:152:ARG:HB2	37:BH:162:ILE:HG12	2.02	0.41
39:BN:37:LYS:CD	46:BU:63:VAL:HG13	2.51	0.41
40:BO:26:LYS:HB3	40:BO:27:GLY:H	1.75	0.41
40:BO:48:PRO:HB2	40:BO:49:ARG:CD	2.44	0.41
41:BP:131:SER:HB2	41:BP:133:SER:H	1.86	0.41
42:BQ:32:TYR:HE2	42:BQ:133:ARG:HG2	1.83	0.41
42:BQ:88:GLY:C	42:BQ:89:ASN:CG	2.79	0.41
46:BU:17:ILE:HD13	46:BU:17:ILE:HA	1.86	0.41
47:BV:19:LYS:HG3	47:BV:20:LEU:O	2.21	0.41
47:BV:89:GLN:HE21	47:BV:89:GLN:HB2	1.56	0.41
48:BW:2:GLU:OE1	48:BW:72:LYS:NZ	2.51	0.41
48:BW:107:LEU:HD12	48:BW:107:LEU:HA	1.61	0.41
49:BX:25:LYS:HB2	49:BX:81:VAL:HB	2.03	0.41
1:CA:15:G:N2	1:CA:922:G:C6	2.89	0.41
1:CA:73:G:N1	1:CA:97:G:N1	2.69	0.41
1:CA:219:C:H6	1:CA:219:C:H3'	1.86	0.41
1:CA:498:U:C2'	1:CA:499:A:O5'	2.69	0.41
1:CA:592:G:N2	1:CA:648:A:C4	2.89	0.41
1:CA:674:G:H21	11:CK:116:HIS:HB2	1.86	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1030(C):G:H2'	1:CA:1030(D):A:O4'	2.21	0.41
1:CA:1160:G:N1	1:CA:1161:C:C5	2.89	0.41
1:CA:1405:G:H1'	1:CA:1518:A:O2'	2.21	0.41
3:CC:182:ILE:CG1	3:CC:203:PHE:HA	2.36	0.41
4:CD:38:TYR:HD2	4:CD:45:GLN:HB3	1.85	0.41
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	2.03	0.41
6:CF:98:LEU:HD13	6:CF:101:ALA:HA	2.01	0.41
7:CG:40:ALA:O	7:CG:44:TYR:HD1	2.04	0.41
7:CG:108:ALA:HB1	7:CG:120:ILE:HD13	2.03	0.41
8:CH:9:MET:HG2	8:CH:10:LEU:CD2	2.50	0.41
8:CH:36:LEU:O	8:CH:38:ILE:N	2.49	0.41
10:CJ:14:LYS:HE3	10:CJ:14:LYS:HB2	1.88	0.41
15:CO:29:VAL:HG11	15:CO:81:LEU:HD21	2.03	0.41
20:CT:50:GLU:HA	20:CT:100:ILE:HB	2.02	0.41
23:D1:47:GLN:HG2	31:DA:2230:G:H1'	2.02	0.41
24:D2:32:LEU:HD12	24:D2:33:MET:O	2.20	0.41
30:D8:58:ILE:O	30:D8:61:LEU:CG	2.64	0.41
31:DA:28:A:H61	31:DA:512:G:H1'	1.84	0.41
31:DA:143:G:H2'	31:DA:143(A):C:H6	1.85	0.41
31:DA:449:A:H2'	31:DA:450:G:O5'	2.20	0.41
31:DA:449:A:C5	31:DA:450:G:C8	3.08	0.41
31:DA:489:G:C5	31:DA:1284:A:C2	3.09	0.41
31:DA:533:G:H5'	46:DU:24:TYR:CE2	2.56	0.41
31:DA:536:A:H2'	31:DA:537:C:H6	1.83	0.41
31:DA:540:C:H2'	31:DA:541:C:C6	2.56	0.41
31:DA:660:G:C6	31:DA:661:C:C4	3.09	0.41
31:DA:806:C:OP2	41:DP:39:LYS:HG3	2.21	0.41
31:DA:884:C:H3'	31:DA:884:C:C6	2.56	0.41
31:DA:939:G:C6	31:DA:940:G:C5	3.09	0.41
31:DA:1260:G:H2'	31:DA:1261:C:O4'	2.20	0.41
31:DA:1260:G:C6	31:DA:1261:C:C4	3.09	0.41
31:DA:1369:G:H2'	31:DA:1370:C:O4'	2.21	0.41
31:DA:1400:G:H2'	31:DA:1401:G:C8	2.55	0.41
31:DA:1553:A:C6	31:DA:1555:G:C4	3.08	0.41
31:DA:1563:G:C4	31:DA:1564:C:C6	3.09	0.41
31:DA:1632:A:C6	31:DA:1633:G:N1	2.89	0.41
31:DA:1677:A:H2'	31:DA:1678:G:O5'	2.20	0.41
31:DA:1693:U:OP2	31:DA:1694:C:H5	2.04	0.41
31:DA:1794:U:H2'	31:DA:1795:C:C6	2.56	0.41
31:DA:1926:U:C2	31:DA:1929:G:C2	3.09	0.41
31:DA:2538:C:H2'	31:DA:2539:C:H6	1.84	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2575:C:O5'	31:DA:2575:C:H6	2.04	0.41
31:DA:2663:G:N7	31:DA:2664:G:C5	2.88	0.41
31:DA:2680:C:H4'	34:DE:188:VAL:O	2.21	0.41
31:DA:2726:U:HO2'	31:DA:2727:G:C5'	2.34	0.41
31:DA:2762:G:H8	31:DA:2762:G:C5'	2.34	0.41
31:DA:2801(A):A:C3'	31:DA:2802:G:H5'	2.50	0.41
31:DA:2870:C:C5	31:DA:2871:C:C5	3.09	0.41
32:DB:95:C:C2	32:DB:96:U:C5	3.09	0.41
34:DE:34:VAL:O	34:DE:34:VAL:HG23	2.20	0.41
37:DH:85:LYS:CE	37:DH:141:VAL:O	2.69	0.41
37:DH:99:VAL:O	37:DH:99:VAL:HG12	2.20	0.41
38:DI:79:ILE:HA	38:DI:79:ILE:HD13	1.81	0.41
38:DI:88:ILE:HD12	38:DI:88:ILE:HG21	1.76	0.41
40:DO:49:ARG:N	40:DO:49:ARG:CD	2.84	0.41
40:DO:115:VAL:HG12	40:DO:116:SER:N	2.36	0.41
41:DP:110:TYR:CE2	41:DP:111:ARG:CD	3.04	0.41
1:AA:190:U:O2'	1:AA:191:G:H5'	2.21	0.40
1:AA:259:G:C2'	1:AA:260:G:H5'	2.51	0.40
1:AA:265:G:O2'	17:AQ:67:LYS:N	2.54	0.40
1:AA:292:G:N3	1:AA:309:G:C2	2.89	0.40
1:AA:559:A:C4'	1:AA:560:U:H3'	2.48	0.40
1:AA:749:C:H2'	1:AA:750:G:H8	1.84	0.40
1:AA:1068:G:C2'	1:AA:1069:C:H5'	2.51	0.40
1:AA:1392:G:C2'	1:AA:1393:U:C5'	2.93	0.40
1:AA:1413:A:C2	1:AA:1488:G:C2	3.09	0.40
1:AA:1431:C:H2'	1:AA:1432:G:H5'	2.03	0.40
1:AA:1498:U:O5'	1:AA:1498:U:H6	2.04	0.40
3:AC:106:VAL:HG11	3:AC:109:PRO:HA	2.03	0.40
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.20	0.40
8:AH:100:ILE:HA	8:AH:101:PRO:HD3	1.83	0.40
9:AI:21:PRO:HA	9:AI:58:ARG:O	2.20	0.40
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.54	0.40
12:AL:91:LYS:HB2	12:AL:91:LYS:HE2	1.94	0.40
16:AP:21:VAL:O	16:AP:33:ILE:HB	2.21	0.40
18:AR:40:LEU:HA	18:AR:43:PHE:HD1	1.86	0.40
20:AT:49:ALA:O	20:AT:50:GLU:C	2.59	0.40
21:AU:5:ASP:O	21:AU:11:GLY:HA3	2.20	0.40
22:B0:24:LYS:HG3	22:B0:36:ILE:HD11	2.02	0.40
24:B2:45:SER:HB3	24:B2:48:HIS:CB	2.50	0.40
24:B2:55:ARG:HH22	49:BX:3:THR:HG22	1.81	0.40
27:B5:32:PRO:O	27:B5:33:CYS:CB	2.65	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B6:47:THR:CG2	28:B6:48:VAL:HG12	2.49	0.40
30:B8:29:LYS:HZ1	30:B8:44:LYS:HB3	1.86	0.40
31:BA:14:A:N1	31:BA:526:A:C2	2.89	0.40
31:BA:363(E):U:H2'	31:BA:363(F):A:O4'	2.21	0.40
31:BA:389:G:C2	41:BP:71:VAL:HG12	2.55	0.40
31:BA:402:A:C2'	31:BA:403:U:H5'	2.51	0.40
31:BA:473:G:O2'	31:BA:474:G:C5'	2.68	0.40
31:BA:688:U:C5'	31:BA:1780:A:C2	3.03	0.40
31:BA:694:U:H2'	31:BA:695:G:O5'	2.21	0.40
31:BA:787:U:H3'	31:BA:791:C:H41	1.86	0.40
31:BA:846:C:H4'	31:BA:847:U:O5'	2.21	0.40
31:BA:912:C:N3	31:BA:913:U:C5	2.89	0.40
31:BA:1201:C:O2'	31:BA:1202:C:H5'	2.21	0.40
31:BA:1310:G:H1'	31:BA:1611:C:H5'	2.02	0.40
31:BA:1337:G:H2'	31:BA:1338:G:C8	2.54	0.40
31:BA:1368:G:C2	31:BA:1369:G:N7	2.89	0.40
31:BA:1412:A:C3'	31:BA:1413:G:H8	2.34	0.40
31:BA:1479:G:C2'	31:BA:1480:G:O5'	2.69	0.40
31:BA:1592:C:H2'	31:BA:1593:G:O5'	2.21	0.40
31:BA:1826:G:H2'	31:BA:1827:C:O4'	2.21	0.40
31:BA:1850:G:C4	31:BA:1851:U:C6	3.10	0.40
31:BA:2063:C:C5	31:BA:2064:C:C4	3.09	0.40
31:BA:2085:C:H2'	31:BA:2086:U:O4'	2.21	0.40
31:BA:2208:A:C2'	31:BA:2218:U:OP2	2.70	0.40
31:BA:2485:G:H5''	42:BQ:46:GLN:NE2	2.35	0.40
31:BA:2585:U:O2'	31:BA:2586:C:OP2	2.31	0.40
31:BA:2750:A:H4'	31:BA:2751:G:OP2	2.20	0.40
31:BA:2819:G:C2	31:BA:2828:C:C2	3.09	0.40
32:BB:1:U:C5	32:BB:2:C:N3	2.90	0.40
32:BB:31:C:H4'	36:BG:29:TRP:HH2	1.86	0.40
34:BE:38:THR:OG1	34:BE:41:LYS:HE3	2.22	0.40
34:BE:52:LEU:HD13	34:BE:76:ARG:CB	2.51	0.40
34:BE:87:GLU:O	34:BE:89:ASP:N	2.55	0.40
35:BF:158:THR:O	35:BF:178:PRO:HD3	2.20	0.40
36:BG:96:ARG:HD2	36:BG:97:ASP:OD1	2.21	0.40
37:BH:146:ALA:O	37:BH:147:ASN:C	2.59	0.40
41:BP:77:ARG:H	41:BP:77:ARG:HG2	1.66	0.40
41:BP:93:GLY:O	41:BP:123:LEU:HB2	2.21	0.40
42:BQ:42:ILE:CD1	42:BQ:97:VAL:HB	2.51	0.40
42:BQ:60:ARG:HG2	42:BQ:60:ARG:O	2.21	0.40
45:BT:16:ARG:HB3	45:BT:18:ASP:OD1	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:19:LYS:HZ1	47:BV:20:LEU:HB2	1.87	0.40
47:BV:69:LYS:CB	47:BV:93:GLU:OE2	2.58	0.40
47:BV:73:SER:HB2	47:BV:75:PHE:CZ	2.56	0.40
48:BW:50:VAL:HG11	48:BW:103:ILE:HG21	2.02	0.40
49:BX:36:LYS:NZ	49:BX:39:ILE:CA	2.81	0.40
51:BZ:26:GLY:HA2	51:BZ:85:HIS:CD2	2.56	0.40
51:BZ:95:PRO:HA	51:BZ:129:SER:HA	2.03	0.40
51:BZ:128:VAL:CG1	51:BZ:133:ILE:HG12	2.51	0.40
51:BZ:150:LEU:C	51:BZ:151:HIS:ND1	2.75	0.40
1:CA:78:G:H22	1:CA:91:C:N4	2.19	0.40
1:CA:113:G:C4	1:CA:114:U:C5	3.09	0.40
1:CA:514:C:O2'	1:CA:515:G:H5'	2.21	0.40
1:CA:562:C:C4	1:CA:884:U:C6	3.09	0.40
1:CA:579:G:H5'	1:CA:728:A:C1'	2.42	0.40
1:CA:617:G:C2	1:CA:618:C:C5	3.09	0.40
1:CA:749:C:H2'	1:CA:750:G:H8	1.86	0.40
1:CA:781:A:H5'	1:CA:782:A:OP2	2.21	0.40
1:CA:853:G:C5	1:CA:854:G:N7	2.89	0.40
1:CA:926:G:N1	1:CA:1505:G:C5	2.88	0.40
1:CA:966:G:O2'	9:CI:127:LYS:O	2.39	0.40
1:CA:1058:G:C6	1:CA:1059:C:C4	3.09	0.40
1:CA:1285:A:C4'	1:CA:1286:A:O5'	2.68	0.40
3:CC:124:ILE:CG1	3:CC:130:VAL:HG22	2.49	0.40
4:CD:138:TYR:CD2	4:CD:139:ARG:N	2.67	0.40
6:CF:98:LEU:CD1	6:CF:101:ALA:HA	2.52	0.40
8:CH:25:ASP:HA	8:CH:59:LEU:O	2.21	0.40
9:CI:114:TYR:CD2	9:CI:114:TYR:O	2.74	0.40
9:CI:116:LYS:C	9:CI:118:LYS:N	2.73	0.40
10:CJ:7:LYS:HA	10:CJ:71:LEU:CD1	2.50	0.40
15:CO:9:GLN:O	15:CO:10:LYS:C	2.59	0.40
16:CP:79:VAL:O	16:CP:79:VAL:CG1	2.69	0.40
18:CR:40:LEU:HA	18:CR:43:PHE:CD1	2.56	0.40
19:CS:7:LYS:HD3	19:CS:7:LYS:N	2.36	0.40
27:D5:48:GLU:HB2	27:D5:49:CYS:H	1.54	0.40
28:D6:9:LEU:HD13	28:D6:11:LEU:HD22	2.03	0.40
28:D6:27:LYS:HG3	31:DA:2285:C:OP2	2.21	0.40
28:D6:27:LYS:O	28:D6:29:ASN:N	2.54	0.40
30:D8:12:LYS:HG2	41:DP:68:GLN:CD	2.42	0.40
31:DA:191:A:H2'	31:DA:192:C:C6	2.56	0.40
31:DA:272(J):C:H2'	31:DA:274:G:OP1	2.21	0.40
31:DA:580:C:C2	31:DA:581:C:C5	3.09	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:648:G:H2'	31:DA:649:G:H5'	2.03	0.40
31:DA:751:A:C5'	48:DW:90:ARG:HA	2.42	0.40
31:DA:781:A:C2'	31:DA:782:A:OP2	2.69	0.40
31:DA:856:C:O2'	31:DA:857:C:OP1	2.37	0.40
31:DA:869:G:C2	31:DA:870:A:H1'	2.56	0.40
31:DA:987:G:O2'	31:DA:1000:A:N3	2.43	0.40
31:DA:1169:G:N2	31:DA:1181:C:C2	2.90	0.40
31:DA:1245:G:OP1	41:DP:16:ARG:CD	2.65	0.40
31:DA:1475:G:C2	31:DA:1517:G:C2	3.09	0.40
31:DA:1793:C:H2'	31:DA:1794:U:H6	1.85	0.40
31:DA:1817:G:H2'	31:DA:1817:G:N3	2.37	0.40
31:DA:1826:G:H2'	31:DA:1827:C:O4'	2.20	0.40
31:DA:2304:G:N2	31:DA:2312:U:H3	2.18	0.40
31:DA:2380:C:H2'	31:DA:2381:C:H5'	2.03	0.40
31:DA:2472:G:C2	31:DA:2477:C:OP1	2.75	0.40
31:DA:2632:A:N3	34:DE:61:ARG:CD	2.85	0.40
31:DA:2790:A:O2'	31:DA:2893:G:C2	2.73	0.40
34:DE:56:PRO:C	34:DE:58:ARG:N	2.75	0.40
35:DF:5:ALA:HB2	35:DF:24:LEU:HD11	2.03	0.40
35:DF:42:ALA:O	35:DF:43:LYS:C	2.60	0.40
35:DF:53:THR:O	35:DF:55:GLY:N	2.54	0.40
36:DG:62:LEU:HD22	36:DG:143:GLU:O	2.21	0.40
38:DI:31:LEU:HD22	38:DI:38:LEU:HG	2.03	0.40
41:DP:61:ARG:CD	41:DP:61:ARG:N	2.75	0.40
43:DR:34:ILE:HD12	43:DR:34:ILE:HA	1.86	0.40
48:DW:64:MET:O	48:DW:65:LEU:HB3	2.18	0.40
49:DX:77:LYS:CD	49:DX:78:LYS:HG3	2.51	0.40
50:DY:52:SER:O	50:DY:54:LYS:N	2.53	0.40
51:DZ:29:TYR:HA	51:DZ:33:LEU:O	2.21	0.40
51:DZ:166:SER:HB2	51:DZ:167:PRO:C	2.40	0.40
1:AA:29:G:C2'	1:AA:30:U:O5'	2.69	0.40
1:AA:78:G:N2	1:AA:91:C:H42	2.19	0.40
1:AA:84:U:H6	1:AA:84:U:H3'	1.84	0.40
1:AA:116:A:OP2	1:AA:116:A:H8	1.97	0.40
1:AA:189(E):U:O2'	1:AA:189(F):U:H5'	2.21	0.40
1:AA:219:C:H3'	1:AA:219:C:H6	1.86	0.40
1:AA:374:A:C2	1:AA:375:U:C2	3.08	0.40
1:AA:375:U:O2'	16:AP:28:ARG:HD2	2.22	0.40
1:AA:499:A:C4'	1:AA:500:G:OP1	2.62	0.40
1:AA:559:A:H5''	1:AA:560:U:C3'	2.43	0.40
1:AA:578:C:H2'	1:AA:579:G:O5'	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:745:C:H2'	1:AA:746:A:O4'	2.21	0.40
1:AA:1097:C:N3	1:AA:1098:C:C5	2.89	0.40
1:AA:1157:A:C8	1:AA:1181:G:N2	2.90	0.40
1:AA:1266:G:H8	1:AA:1266:G:O5'	2.04	0.40
1:AA:1333:A:H3'	1:AA:1334:G:H8	1.85	0.40
1:AA:1405:G:O4'	1:AA:1519:A:H4'	2.21	0.40
1:AA:1493:A:H5''	1:AA:1494:G:OP2	2.20	0.40
2:AB:61:LEU:CG	2:AB:68:ILE:HD11	2.51	0.40
2:AB:145:LEU:CD1	2:AB:149:LEU:HD12	2.51	0.40
4:AD:100:ARG:NH1	4:AD:137:SER:HA	2.36	0.40
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.56	0.40
8:AH:40:ALA:O	8:AH:43:GLY:N	2.51	0.40
9:AI:29:ASN:OD1	9:AI:64:THR:HA	2.21	0.40
9:AI:49:PRO:O	9:AI:53:VAL:HG22	2.22	0.40
11:AK:52:GLY:N	11:AK:55:LYS:HG3	2.33	0.40
15:AO:2:PRO:HB2	15:AO:3:ILE:H	1.71	0.40
15:AO:39:LEU:HD13	15:AO:43:LEU:HD11	2.01	0.40
17:AQ:16:GLN:O	17:AQ:17:LYS:HB2	2.21	0.40
18:AR:59:SER:HB3	18:AR:62:GLU:CG	2.51	0.40
20:AT:30:LYS:HD2	20:AT:30:LYS:HA	1.81	0.40
20:AT:63:ILE:CG2	20:AT:77:ALA:HA	2.51	0.40
22:B0:32:ARG:H	22:B0:35:ASN:ND2	2.10	0.40
24:B2:46:GLN:O	24:B2:48:HIS:N	2.54	0.40
24:B2:49:LYS:O	24:B2:51:ARG:N	2.54	0.40
29:B7:11:LYS:O	29:B7:15:THR:HB	2.21	0.40
29:B7:31:LEU:HD23	29:B7:31:LEU:HA	1.89	0.40
30:B8:36:LYS:HG3	30:B8:36:LYS:H	1.67	0.40
31:BA:109:G:C5	31:BA:110:G:C8	3.08	0.40
31:BA:140:G:N3	31:BA:142:A:N1	2.69	0.40
31:BA:271(H):G:N2	31:BA:271(I):G:H1'	2.37	0.40
31:BA:272:G:O6	31:BA:421:U:H2'	2.21	0.40
31:BA:533:G:H5'	46:BU:24:TYR:CD2	2.56	0.40
31:BA:705:A:C8	31:BA:727:A:C4	3.10	0.40
31:BA:814:C:H5''	47:BV:86:GLY:CA	2.52	0.40
31:BA:1266:G:O2'	31:BA:2012:G:O6	2.31	0.40
31:BA:1339:G:O4'	31:BA:1393:A:C2	2.73	0.40
31:BA:1389:G:C2'	31:BA:1390:U:O5'	2.69	0.40
31:BA:1690:A:C8	31:BA:1691:C:C6	3.09	0.40
31:BA:1696:G:C2'	31:BA:1697:G:H5'	2.51	0.40
31:BA:1791:A:C5'	31:BA:1792:G:OP2	2.69	0.40
31:BA:1899:G:O2'	31:BA:1900:A:C5'	2.68	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1932:A:C2'	31:BA:1933:G:H5'	2.51	0.40
31:BA:2023:G:H4'	31:BA:2617:C:O3'	2.20	0.40
31:BA:2251:G:C8	31:BA:2450:A:H4'	2.56	0.40
31:BA:2287:A:C4	31:BA:2289:G:C8	3.08	0.40
31:BA:2316:C:C5	31:BA:2317:C:H5	2.40	0.40
31:BA:2368:C:H2'	31:BA:2369:A:H8	1.87	0.40
31:BA:2370:G:H2'	31:BA:2371:G:O4'	2.22	0.40
31:BA:2431:U:O2	31:BA:2433:A:C8	2.75	0.40
31:BA:2476:A:H2	31:BA:2477:C:H5''	1.86	0.40
31:BA:2552:U:C2'	31:BA:2554:U:OP2	2.64	0.40
31:BA:2712:U:O2	31:BA:2712:U:H2'	2.21	0.40
31:BA:2780:G:O2'	31:BA:2781:A:OP1	2.38	0.40
31:BA:2813:A:H2'	31:BA:2814:C:O4'	2.21	0.40
32:BB:21:G:N3	32:BB:21:G:H2'	2.35	0.40
32:BB:65:C:N4	32:BB:109:C:C2'	2.65	0.40
33:BD:17:THR:CG2	33:BD:205:VAL:HB	2.46	0.40
33:BD:63:ARG:HH11	33:BD:63:ARG:CG	2.33	0.40
35:BF:22:ALA:HB1	35:BF:26:ALA:HB1	2.02	0.40
35:BF:46:ARG:NH1	35:BF:46:ARG:HB2	2.35	0.40
35:BF:110:LEU:HD22	35:BF:202:PHE:HE1	1.86	0.40
36:BG:7:LEU:HD12	36:BG:100:TRP:O	2.21	0.40
37:BH:152:ARG:HB3	37:BH:153:LYS:H	1.76	0.40
38:BI:25:TYR:O	38:BI:26:ALA:C	2.58	0.40
38:BI:91:SER:HB2	38:BI:119:PRO:CB	2.36	0.40
38:BI:92:VAL:HG13	38:BI:92:VAL:O	2.21	0.40
39:BN:120:LEU:CD1	39:BN:120:LEU:C	2.89	0.40
39:BN:121:LYS:HG3	39:BN:123:TYR:CE1	2.55	0.40
40:BO:2:ILE:HD11	40:BO:82:ASN:HB2	2.02	0.40
40:BO:10:VAL:HG22	40:BO:17:ARG:C	2.41	0.40
40:BO:87:ILE:HD13	40:BO:87:ILE:HA	1.81	0.40
40:BO:106:LEU:HD23	40:BO:106:LEU:HA	1.47	0.40
41:BP:38:GLN:CG	41:BP:39:LYS:N	2.78	0.40
41:BP:98:GLU:HA	41:BP:101:VAL:CG1	2.51	0.40
51:BZ:39:VAL:HG23	51:BZ:44:PHE:HB2	2.02	0.40
51:BZ:44:PHE:HE2	51:BZ:88:PHE:CZ	2.39	0.40
1:CA:189:G:N1	1:CA:189(L):G:C2	2.89	0.40
1:CA:300:A:H8	1:CA:300:A:O5'	2.04	0.40
1:CA:427:U:P	4:CD:13:ARG:NH2	2.93	0.40
1:CA:458:C:C2	1:CA:460:G:C8	3.09	0.40
1:CA:570:G:H2'	1:CA:571:U:H6	1.81	0.40
1:CA:598:U:H2'	1:CA:599:C:C6	2.57	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:599:C:O2	1:CA:640:A:C2	2.74	0.40
1:CA:735:C:H5'	18:CR:71:LYS:HD3	2.03	0.40
1:CA:989:C:H42	1:CA:1216:G:H1	1.69	0.40
1:CA:1084:G:N7	1:CA:1085:U:N3	2.68	0.40
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.87	0.40
1:CA:1125:U:H4'	1:CA:1126:U:H5	1.86	0.40
1:CA:1125:U:O4	10:CJ:73:ASP:OD2	2.39	0.40
1:CA:1285:A:OP1	1:CA:1285:A:C8	2.73	0.40
1:CA:1418:A:N3	31:DA:1959:G:H1'	2.35	0.40
1:CA:1507:A:C8	1:CA:1530:G:N2	2.89	0.40
2:CB:56:ARG:HD3	2:CB:56:ARG:HA	1.89	0.40
2:CB:85:ALA:HB1	2:CB:90:MET:O	2.22	0.40
2:CB:87:ARG:O	2:CB:223:ILE:HD11	2.21	0.40
2:CB:126:GLU:O	2:CB:127:ILE:HD13	2.21	0.40
4:CD:188:LEU:HA	4:CD:189:PRO:HD2	1.76	0.40
5:CE:103:GLY:H	5:CE:106:PRO:HG2	1.86	0.40
6:CF:1:MET:HA	6:CF:67:MET:O	2.21	0.40
6:CF:5:GLU:HB2	18:CR:34:TYR:OH	2.21	0.40
6:CF:89:MET:CE	18:CR:76:LEU:HD21	2.51	0.40
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.22	0.40
11:CK:38:ASN:HA	11:CK:39:PRO:HD3	1.77	0.40
11:CK:114:VAL:HG13	11:CK:114:VAL:O	2.21	0.40
12:CL:25:PRO:HD2	12:CL:98:TYR:OH	2.21	0.40
13:CM:96:LEU:O	13:CM:98:VAL:HG22	2.20	0.40
16:CP:51:VAL:HG13	16:CP:52:ASP:H	1.86	0.40
17:CQ:67:LYS:C	17:CQ:69:LYS:H	2.25	0.40
24:D2:47:ASN:ND2	24:D2:48:HIS:H	2.17	0.40
27:D5:2:ALA:N	31:DA:747:U:C2	2.90	0.40
27:D5:43:HIS:CE1	31:DA:2816:C:H1'	2.55	0.40
28:D6:13:CYS:HB2	28:D6:22:ALA:CB	2.51	0.40
29:D7:5:TRP:HA	29:D7:5:TRP:HE3	1.85	0.40
30:D8:38:GLY:O	30:D8:39:LYS:HB3	2.21	0.40
31:DA:49:A:H2'	31:DA:49:A:N3	2.36	0.40
31:DA:271(C):C:C6	31:DA:271(C):C:H3'	2.57	0.40
31:DA:419:C:H6	31:DA:419:C:O5'	2.04	0.40
31:DA:464:U:C5	31:DA:788:A:C4	3.09	0.40
31:DA:679:C:H2'	31:DA:680:G:C8	2.55	0.40
31:DA:705:A:C4	31:DA:727:A:H1'	2.56	0.40
31:DA:869:G:C6	31:DA:870:A:C5	3.09	0.40
31:DA:953:A:C2	31:DA:954:G:C4	3.10	0.40
31:DA:1232:G:H2'	31:DA:1233:C:C6	2.55	0.40

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1709:U:O4'	31:DA:2860:A:H1'	2.20	0.40
31:DA:1904:G:H2'	31:DA:1905:C:O4'	2.21	0.40
31:DA:2083:G:C6	31:DA:2084:C:C4	3.08	0.40
31:DA:2306:C:P	31:DA:2307:G:C8	3.15	0.40
31:DA:2316:C:C6	31:DA:2317:C:H5	2.38	0.40
31:DA:2385:C:O2'	31:DA:2386:C:H5'	2.21	0.40
31:DA:2413:G:N2	31:DA:2414:G:H1'	2.36	0.40
31:DA:2455:G:C6	31:DA:2456:C:N4	2.89	0.40
31:DA:2521:C:N3	31:DA:2544:G:N2	2.61	0.40
31:DA:2536:G:C8	31:DA:2537:U:C5	3.09	0.40
31:DA:2580:U:H5'	34:DE:131:ALA:CB	2.52	0.40
31:DA:2694:G:O2'	31:DA:2695:C:H5'	2.21	0.40
31:DA:2733:A:O2'	31:DA:2734:A:H5'	2.21	0.40
31:DA:2807:G:C3'	31:DA:2808:U:H5''	2.43	0.40
31:DA:2821:A:H2'	31:DA:2822:G:C8	2.56	0.40
32:DB:6:C:H4'	32:DB:28:C:H5'	2.03	0.40
32:DB:51:G:C5'	32:DB:52:A:OP2	2.63	0.40
32:DB:55:U:N3	32:DB:56:G:N7	2.69	0.40
32:DB:94:C:C2	32:DB:95:C:C5	3.09	0.40
33:DD:231:HIS:ND1	33:DD:232:PRO:HD2	2.35	0.40
34:DE:96:PHE:HE2	34:DE:102:VAL:HG11	1.87	0.40
35:DF:38:ARG:HD2	41:DP:16:ARG:HH22	1.85	0.40
36:DG:94:LEU:HD11	36:DG:102:PHE:CB	2.52	0.40
37:DH:27:LYS:HE2	37:DH:27:LYS:HB3	1.89	0.40
37:DH:87:LEU:N	37:DH:131:VAL:O	2.40	0.40
37:DH:152:ARG:HB2	37:DH:162:ILE:HG12	2.02	0.40
37:DH:167:GLU:HA	37:DH:168:PRO:HD3	1.97	0.40
39:DN:30:ILE:CG2	39:DN:120:LEU:CD2	3.00	0.40
39:DN:96:GLU:O	39:DN:100:GLU:HG3	2.22	0.40
40:DO:111:PHE:C	40:DO:113:LYS:N	2.74	0.40
41:DP:98:GLU:CA	41:DP:101:VAL:HG13	2.51	0.40
43:DR:67:LEU:HD13	43:DR:76:VAL:CG2	2.43	0.40
46:DU:29:SER:O	46:DU:30:LYS:HD3	2.21	0.40
47:DV:27:ALA:O	47:DV:29:PRO:O	2.39	0.40
48:DW:47:VAL:HA	48:DW:50:VAL:CG1	2.51	0.40
50:DY:44:ILE:CG2	50:DY:45:VAL:N	2.84	0.40
50:DY:96:ILE:H	50:DY:96:ILE:HG12	1.37	0.40
1:AA:29:G:H2'	1:AA:30:U:O5'	2.21	0.40
1:AA:198:G:N2	1:AA:199:G:C1'	2.79	0.40
1:AA:198:G:N7	1:AA:220:G:N2	2.69	0.40
1:AA:222:U:H2'	1:AA:223:U:H6	1.85	0.40

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:258:G:C4	1:AA:259:G:N7	2.90	0.40
1:AA:380:G:N2	1:AA:384:G:C5	2.89	0.40
1:AA:425:G:N2	1:AA:426:G:H1'	2.36	0.40
1:AA:514:C:O2'	1:AA:515:G:H5'	2.22	0.40
1:AA:660:G:C2'	1:AA:661:G:O5'	2.69	0.40
1:AA:760:G:H2'	1:AA:761:G:C5'	2.49	0.40
1:AA:823:G:O2'	1:AA:824:C:H5'	2.21	0.40
1:AA:954:G:N2	1:AA:1227:A:H62	1.98	0.40
1:AA:1054:C:H3'	1:AA:1054:C:O2	2.21	0.40
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.22	0.40
1:AA:1179:A:H2'	1:AA:1180:A:O4'	2.22	0.40
1:AA:1302:U:C5	13:AM:17:VAL:HG21	2.56	0.40
1:AA:1365:G:C2	1:AA:1366:C:C2	3.09	0.40
4:AD:15:GLU:HB3	4:AD:63:LYS:HE2	2.03	0.40
4:AD:192:GLU:O	4:AD:194:LEU:N	2.55	0.40
5:AE:13:ILE:HA	5:AE:29:GLY:O	2.21	0.40
5:AE:142:LEU:HA	5:AE:142:LEU:HD23	1.76	0.40
5:AE:146:ALA:O	5:AE:148:VAL:N	2.54	0.40
6:AF:29:ALA:O	6:AF:30:LEU:C	2.59	0.40
9:AI:87:GLN:C	9:AI:89:ASN:H	2.24	0.40
12:AL:78:GLN:O	12:AL:80:HIS:N	2.54	0.40
13:AM:66:LEU:HB2	13:AM:67:GLU:H	1.55	0.40
13:AM:94:ARG:HG2	19:AS:82:GLY:N	2.36	0.40
15:AO:54:ARG:O	15:AO:57:LEU:HB2	2.21	0.40
18:AR:22:VAL:CG1	18:AR:42:ARG:HG2	2.52	0.40
18:AR:56:THR:HG21	18:AR:63:GLN:HE22	1.87	0.40
21:AU:12:LYS:HD2	21:AU:12:LYS:HA	1.96	0.40
23:B1:48:LYS:CG	23:B1:49:VAL:N	2.84	0.40
24:B2:29:LYS:O	24:B2:32:LEU:N	2.55	0.40
29:B7:27:GLY:O	29:B7:28:ARG:C	2.60	0.40
31:BA:128:C:H6	31:BA:128:C:C5'	2.29	0.40
31:BA:154:G:C2	31:BA:154(A):C:N4	2.88	0.40
31:BA:287:C:C2	31:BA:288:C:C6	3.09	0.40
31:BA:322:A:H3'	35:BF:169:ASN:HD21	1.86	0.40
31:BA:589:C:H2'	31:BA:590:A:C8	2.56	0.40
31:BA:824:A:O2'	31:BA:825:C:H5'	2.22	0.40
31:BA:921:G:C5	31:BA:922:U:C4	3.09	0.40
31:BA:1047:G:H3'	31:BA:1110:G:H1	1.86	0.40
31:BA:1605:C:O4'	31:BA:1610:A:C6	2.74	0.40
31:BA:1688:U:H1'	31:BA:1701:A:N6	2.36	0.40
31:BA:1754:C:N3	31:BA:2716:U:O2'	2.48	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1842:G:C2	31:BA:1901:A:C4	3.09	0.40
31:BA:1844:C:C2'	31:BA:1845:G:H5'	2.52	0.40
31:BA:1858:G:OP2	31:BA:1858:G:H8	2.04	0.40
31:BA:2012:G:H8	31:BA:2012:G:O5'	2.04	0.40
31:BA:2046:G:N3	31:BA:2046:G:H2'	2.36	0.40
31:BA:2050:C:H1'	34:BE:156:MET:HE2	2.03	0.40
31:BA:2102:U:O2	31:BA:2102:U:O4'	2.37	0.40
31:BA:2257:U:C4	31:BA:2258:C:N4	2.89	0.40
31:BA:2259:G:C8	31:BA:2427:C:C4	3.09	0.40
31:BA:2469:A:O2'	42:BQ:56:ARG:NE	2.55	0.40
31:BA:2694:G:C6	31:BA:2695:C:C4	3.09	0.40
32:BB:6:C:H4'	32:BB:28:C:H5'	2.03	0.40
34:BE:1:MET:O	34:BE:84:PHE:HB2	2.21	0.40
35:BF:2:LYS:HE2	35:BF:2:LYS:HB3	1.91	0.40
35:BF:7:TYR:CG	35:BF:8:GLN:N	2.88	0.40
38:BI:130:TYR:O	38:BI:131:LYS:HB2	2.21	0.40
38:BI:133:HIS:CB	38:BI:134:PRO:HD2	2.50	0.40
40:BO:47:ILE:HD12	40:BO:47:ILE:HA	1.89	0.40
41:BP:27:HIS:CD2	41:BP:27:HIS:C	2.94	0.40
41:BP:67:MET:HA	41:BP:67:MET:HE2	2.03	0.40
41:BP:135:LEU:HD22	41:BP:135:LEU:HA	1.87	0.40
42:BQ:16:ARG:CG	42:BQ:17:LEU:N	2.81	0.40
42:BQ:29:PHE:HB3	42:BQ:65:PHE:CE1	2.56	0.40
42:BQ:32:TYR:O	42:BQ:105:GLU:HA	2.22	0.40
43:BR:9:LYS:HG3	43:BR:43:GLU:OE2	2.21	0.40
43:BR:84:ALA:N	43:BR:85:PRO:HD2	2.36	0.40
44:BS:39:ILE:HG12	44:BS:73:LEU:CD1	2.41	0.40
45:BT:13:ARG:NE	45:BT:13:ARG:HA	2.35	0.40
46:BU:66:ASN:O	46:BU:67:ALA:C	2.59	0.40
47:BV:57:VAL:HG12	47:BV:57:VAL:O	2.20	0.40
47:BV:60:GLU:CD	47:BV:100:ARG:O	2.59	0.40
48:BW:73:ALA:C	48:BW:106:ILE:HD13	2.42	0.40
49:BX:21:PHE:O	49:BX:22:ALA:C	2.60	0.40
49:BX:87:GLN:O	49:BX:88:LYS:O	2.38	0.40
49:BX:89:ILE:HD12	49:BX:89:ILE:N	2.36	0.40
50:BY:15:VAL:CG1	50:BY:16:ALA:H	2.34	0.40
51:BZ:5:LEU:HD12	51:BZ:47:VAL:HG21	2.03	0.40
51:BZ:5:LEU:HD11	51:BZ:43:GLU:HB3	2.01	0.40
1:CA:124:G:C5	1:CA:125:U:C4	3.09	0.40
1:CA:250:A:H5'	1:CA:252:U:O4'	2.20	0.40
1:CA:329:A:C2	1:CA:332:G:C4	3.09	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:380:G:N2	1:CA:384:G:C5	2.89	0.40
1:CA:545:C:O2'	1:CA:549:C:H5''	2.21	0.40
1:CA:604:G:C2	1:CA:635:G:C5	3.09	0.40
1:CA:628:G:C2	1:CA:629:G:C4	3.10	0.40
1:CA:738:C:H5''	6:CF:2:ARG:HH12	1.84	0.40
1:CA:1287:A:C6	1:CA:1288:A:C6	3.09	0.40
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	2.21	0.40
1:CA:1442(A):G:C6	45:DT:118:ARG:NE	2.90	0.40
2:CB:70:PHE:HA	2:CB:163:PHE:O	2.21	0.40
4:CD:52:SER:O	4:CD:54:TYR:N	2.54	0.40
11:CK:48:ILE:HD12	11:CK:63:LEU:O	2.21	0.40
12:CL:115:LYS:HB3	12:CL:116:SER:H	1.62	0.40
20:CT:23:ARG:HA	20:CT:26:ASN:ND2	2.35	0.40
20:CT:57:ARG:C	20:CT:59:ALA:N	2.74	0.40
23:D1:78:LYS:CG	31:DA:271(R):G:H4'	2.40	0.40
31:DA:14:A:C2	31:DA:526:A:C2	3.09	0.40
31:DA:25:U:C4	31:DA:26:G:C6	3.10	0.40
31:DA:85:G:OP1	50:DY:9:LYS:CB	2.69	0.40
31:DA:128:C:H6	31:DA:128:C:C5'	2.30	0.40
31:DA:329:G:OP2	50:DY:71:LYS:CE	2.66	0.40
31:DA:456:C:C6	49:DX:66:LEU:HD21	2.56	0.40
31:DA:536:A:H2'	31:DA:537:C:O4'	2.21	0.40
31:DA:595:C:H2'	31:DA:596:G:O4'	2.21	0.40
31:DA:624:C:H2'	31:DA:625:G:H5'	2.03	0.40
31:DA:646:A:C2'	31:DA:647:G:H5'	2.50	0.40
31:DA:763:G:N3	31:DA:765:G:H1'	2.36	0.40
31:DA:861:A:C2	31:DA:917:A:N3	2.90	0.40
31:DA:901:A:N3	31:DA:901:A:H2'	2.35	0.40
31:DA:986:C:H6	31:DA:986:C:O5'	2.04	0.40
31:DA:1288:U:C2	31:DA:1327:C:C2	3.09	0.40
31:DA:1318:C:C3'	31:DA:1319:G:H5''	2.51	0.40
31:DA:1356:G:C5	31:DA:1357:U:C4	3.09	0.40
31:DA:1461:G:C4	31:DA:1462:C:C5	3.09	0.40
31:DA:1650:G:H2'	31:DA:1651:G:O4'	2.21	0.40
31:DA:1843:C:H2'	31:DA:1844:C:C6	2.57	0.40
31:DA:1893:C:H2'	31:DA:1894:C:O4'	2.21	0.40
31:DA:2223:G:H2'	31:DA:2224:G:O4'	2.21	0.40
31:DA:2651:C:O2'	31:DA:2652:C:H5'	2.21	0.40
31:DA:2750:A:OP1	31:DA:2750:A:H8	2.04	0.40
31:DA:2796:U:O2	31:DA:2796:U:O4'	2.39	0.40
31:DA:2830:G:C8	31:DA:2830:G:C4'	3.04	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2839:G:C5	31:DA:2840:C:C4	3.09	0.40
31:DA:2849:U:H6	31:DA:2849:U:H2'	1.59	0.40
32:DB:86:G:H2'	32:DB:87:G:O4'	2.22	0.40
32:DB:111:G:O2'	32:DB:112:U:H5'	2.20	0.40
34:DE:4:ILE:CD1	34:DE:28:ALA:HB1	2.46	0.40
35:DF:181:LEU:HD11	35:DF:186:ILE:HD11	2.02	0.40
36:DG:131:TYR:O	36:DG:159:VAL:HG13	2.21	0.40
37:DH:43:VAL:HG11	37:DH:53:GLU:H	1.87	0.40
37:DH:103:LEU:HD21	37:DH:105:LEU:HD11	2.02	0.40
37:DH:150:ALA:O	37:DH:151:ILE:C	2.59	0.40
37:DH:164:TYR:N	37:DH:164:TYR:HD1	2.18	0.40
38:DI:15:VAL:CG2	38:DI:16:GLY:N	2.83	0.40
39:DN:17:ASP:OD2	39:DN:17:ASP:C	2.59	0.40
39:DN:108:PRO:O	39:DN:113:GLY:HA3	2.21	0.40
40:DO:35:VAL:HG11	40:DO:105:GLU:HB2	2.03	0.40
40:DO:63:VAL:HG12	40:DO:106:LEU:HD11	2.04	0.40
41:DP:99:LEU:HD12	41:DP:102:ARG:NH1	2.36	0.40
42:DQ:6:ARG:O	42:DQ:6:ARG:CG	2.69	0.40
43:DR:28:LEU:CD1	43:DR:48:VAL:HG21	2.48	0.40
45:DT:28:VAL:O	45:DT:86:ILE:O	2.39	0.40
46:DU:50:ARG:CZ	47:DV:75:PHE:CD2	3.04	0.40
47:DV:19:LYS:O	47:DV:20:LEU:HG	2.21	0.40
49:DX:53:LYS:CE	49:DX:55:ASN:HD21	2.33	0.40
50:DY:92:ASN:ND2	50:DY:93:GLY:H	2.19	0.40
1:AA:60:A:N6	1:AA:110:C:N3	2.69	0.40
1:AA:250:A:OP1	1:AA:250:A:H3'	2.22	0.40
1:AA:257:G:H2'	1:AA:258:G:H8	1.85	0.40
1:AA:424:G:C4	1:AA:425:G:C8	3.09	0.40
1:AA:458:C:C2	1:AA:460:G:C8	3.10	0.40
1:AA:501:C:H3'	1:AA:501:C:C6	2.55	0.40
1:AA:633:G:H5'	1:AA:634:C:OP2	2.21	0.40
1:AA:683:G:C2	1:AA:708:C:C2	3.09	0.40
1:AA:815:A:H4'	1:AA:817:C:C4	2.55	0.40
1:AA:945:G:O6	1:AA:1337:G:C6	2.74	0.40
1:AA:989:C:H42	1:AA:1216:G:H1	1.69	0.40
1:AA:1108:G:H2'	1:AA:1109:C:H5'	2.03	0.40
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.76	0.40
1:AA:1419:G:C2	1:AA:1420:C:C2	3.09	0.40
1:AA:1426:C:C2'	1:AA:1427:U:H5'	2.52	0.40
8:AH:13:ILE:O	8:AH:14:ARG:C	2.59	0.40
8:AH:29:SER:O	8:AH:32:LYS:N	2.55	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:40:LEU:CB	10:AJ:41:PRO:HD2	2.43	0.40
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.35	0.40
16:AP:18:ARG:HH11	16:AP:35:LYS:HD2	1.86	0.40
17:AQ:95:TYR:O	17:AQ:96:GLU:C	2.60	0.40
18:AR:29:PHE:O	18:AR:29:PHE:CG	2.75	0.40
18:AR:88:LYS:HE2	18:AR:88:LYS:O	2.21	0.40
19:AS:19:VAL:HG11	19:AS:44:MET:HG3	2.03	0.40
20:AT:84:LEU:C	20:AT:86:ARG:N	2.73	0.40
22:B0:41:ARG:CB	31:BA:2330:G:H1'	2.52	0.40
22:B0:73:GLY:C	22:B0:75:LEU:N	2.74	0.40
24:B2:44:LEU:HD13	24:B2:44:LEU:HA	1.68	0.40
25:B3:10:LYS:HG3	25:B3:11:SER:N	2.36	0.40
28:B6:32:ASN:CG	28:B6:33:LYS:N	2.75	0.40
30:B8:8:LYS:HG2	31:BA:246:C:N4	2.35	0.40
31:BA:154:G:C2	31:BA:154(A):C:N3	2.89	0.40
31:BA:271(M):G:H5'	38:BI:57:ARG:NH1	2.36	0.40
31:BA:627:A:C6	31:BA:637:A:C8	3.09	0.40
31:BA:775:G:C4	31:BA:794:G:N7	2.89	0.40
31:BA:909:A:C4	31:BA:912:C:C5	3.09	0.40
31:BA:926:A:H5''	31:BA:926:A:H8	1.86	0.40
31:BA:1107:G:C6	31:BA:1108:U:C4	3.10	0.40
31:BA:1242:A:C6	41:BP:8:PRO:HG3	2.56	0.40
31:BA:1511:C:H2'	31:BA:1512:U:C6	2.56	0.40
31:BA:1558:A:H4'	31:BA:1559:G:O5'	2.21	0.40
31:BA:1593:G:C6	31:BA:1594:G:C6	3.09	0.40
31:BA:1655:A:H3'	31:BA:1656:C:H6	1.87	0.40
31:BA:1659:U:C2'	31:BA:1660:C:C5'	2.99	0.40
31:BA:1968:G:O3'	31:BA:1969:A:C4'	2.69	0.40
31:BA:2649:U:H2'	31:BA:2650:U:C6	2.56	0.40
31:BA:2817:G:H2'	31:BA:2818:G:O4'	2.21	0.40
33:BD:16:MET:HA	33:BD:205:VAL:O	2.21	0.40
33:BD:25:THR:O	33:BD:27:THR:CB	2.68	0.40
33:BD:73:VAL:O	33:BD:75:ILE:N	2.55	0.40
33:BD:75:ILE:HG21	33:BD:99:ASP:HB2	2.03	0.40
34:BE:36:ARG:HH11	34:BE:85:ASN:ND2	2.19	0.40
38:BI:15:VAL:C	38:BI:17:GLN:N	2.75	0.40
38:BI:71:ILE:CG1	38:BI:72:LEU:HD22	2.50	0.40
39:BN:107:LEU:HA	39:BN:107:LEU:HD23	1.83	0.40
41:BP:99:LEU:HD12	41:BP:102:ARG:NH1	2.37	0.40
42:BQ:52:VAL:O	42:BQ:53:ALA:C	2.57	0.40
43:BR:53:HIS:HB2	43:BR:94:TYR:HE1	1.87	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:27:SER:HB2	44:BS:38:GLN:HB3	2.02	0.40
46:BU:8:VAL:HG11	46:BU:12:ARG:CZ	2.51	0.40
49:BX:9:LEU:HB2	49:BX:29:TRP:O	2.22	0.40
49:BX:40:LYS:O	49:BX:43:VAL:N	2.54	0.40
49:BX:55:ASN:ND2	49:BX:78:LYS:HZ3	2.19	0.40
50:BY:80:GLY:O	50:BY:81:LYS:HB3	2.22	0.40
50:BY:83:THR:CG2	50:BY:84:ARG:N	2.85	0.40
1:CA:27:G:C4	1:CA:28:G:C8	3.09	0.40
1:CA:299:G:C5	1:CA:300:A:N6	2.90	0.40
1:CA:498:U:H2'	1:CA:499:A:O5'	2.21	0.40
1:CA:509:A:H5'	4:CD:55:ALA:HB2	2.03	0.40
1:CA:644:G:C5	1:CA:645:C:C5	3.09	0.40
1:CA:682:G:C6	1:CA:683:G:C5	3.10	0.40
1:CA:974:A:P	14:CN:41:ARG:HH12	2.45	0.40
1:CA:1064:G:H5'	1:CA:1066:C:C1'	2.45	0.40
1:CA:1302:U:C5	13:CM:17:VAL:HG21	2.56	0.40
1:CA:1420:C:H6	1:CA:1420:C:O5'	2.05	0.40
1:CA:1468:A:H8	1:CA:1468:A:O5'	2.03	0.40
2:CB:22:LYS:HZ3	2:CB:40:HIS:CE1	2.34	0.40
2:CB:61:LEU:CA	2:CB:64:ARG:HG2	2.52	0.40
4:CD:60:GLU:HG3	4:CD:198:VAL:HG13	2.04	0.40
4:CD:63:LYS:HB3	4:CD:64:LEU:H	1.76	0.40
4:CD:128:VAL:CG1	4:CD:129:ASN:ND2	2.66	0.40
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	2.03	0.40
7:CG:95:ARG:O	7:CG:96:GLN:C	2.60	0.40
8:CH:86:ILE:HG13	8:CH:133:LEU:HD13	2.03	0.40
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.37	0.40
22:D0:8:GLY:O	22:D0:10:THR:N	2.54	0.40
23:D1:20:ARG:NH2	23:D1:20:ARG:CG	2.85	0.40
25:D3:49:LYS:HE2	31:DA:850:C:O3'	2.22	0.40
27:D5:36:CYS:HG	27:D5:49:CYS:HG	0.49	0.40
29:D7:42:LEU:HD23	29:D7:42:LEU:HA	1.72	0.40
31:DA:26:G:H1'	31:DA:515:A:N6	2.36	0.40
31:DA:30:G:O2'	31:DA:31:C:H5'	2.21	0.40
31:DA:71:A:H4'	31:DA:72:U:O5'	2.22	0.40
31:DA:196:A:O2'	31:DA:805:G:O6	2.29	0.40
31:DA:412:A:C8	31:DA:413:C:C5	3.09	0.40
31:DA:551:G:N1	31:DA:552:G:C5	2.90	0.40
31:DA:814:C:H42	31:DA:1193:G:H1	1.70	0.40
31:DA:1006:C:C2	31:DA:1138:G:C2	3.09	0.40
31:DA:1047:G:H3'	31:DA:1110:G:H1	1.86	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1204:A:C8	31:DA:1206:G:C6	3.09	0.40
31:DA:1234:U:H2'	31:DA:1235:G:O4'	2.21	0.40
31:DA:1272:A:C3'	31:DA:1273:U:H5''	2.51	0.40
31:DA:1310:G:H1'	31:DA:1611:C:H5'	2.02	0.40
31:DA:1334:G:C6	31:DA:1335:U:C4	3.10	0.40
31:DA:1548:C:H2'	31:DA:1549:C:H6	1.86	0.40
31:DA:2091:U:OP2	31:DA:2092:U:O2'	2.34	0.40
31:DA:2396:G:C2	31:DA:2421:G:C2	3.10	0.40
31:DA:2415:G:C5	31:DA:2416:C:C4	3.09	0.40
31:DA:2580:U:O2	31:DA:2580:U:C2'	2.67	0.40
31:DA:2727:G:C4	31:DA:2728:U:C5	3.09	0.40
31:DA:2729:G:N3	34:DE:187:ALA:HB2	2.37	0.40
31:DA:2731:G:N1	31:DA:2732:G:C6	2.90	0.40
31:DA:2740:A:H2'	31:DA:2741:A:C8	2.56	0.40
31:DA:2758:A:C2'	31:DA:2759:G:H5'	2.51	0.40
55:DA:3320:TEL:H30	55:DA:3320:TEL:H242	1.80	0.40
32:DB:55:U:C4	32:DB:56:G:N7	2.89	0.40
33:DD:62:TYR:HE1	33:DD:64:ILE:HA	1.82	0.40
33:DD:78:LYS:HE3	33:DD:78:LYS:HB2	1.83	0.40
33:DD:220:HIS:CD2	33:DD:221:VAL:N	2.90	0.40
34:DE:16:ARG:HG3	34:DE:21:VAL:HG21	2.02	0.40
34:DE:37:ARG:HD3	34:DE:44:TYR:CZ	2.56	0.40
34:DE:52:LEU:O	34:DE:53:PRO:C	2.59	0.40
34:DE:188:VAL:CG2	34:DE:189:PRO:HD2	2.52	0.40
35:DF:24:LEU:O	35:DF:25:PRO:C	2.56	0.40
36:DG:25:TYR:HB3	36:DG:30:GLU:CD	2.42	0.40
37:DH:164:TYR:C	37:DH:166:GLY:N	2.75	0.40
38:DI:94:ALA:HB1	38:DI:111:PRO:HA	2.03	0.40
42:DQ:42:ILE:HD11	42:DQ:127:ILE:HD11	2.03	0.40
45:DT:51:ARG:HG3	45:DT:98:LYS:HG3	2.03	0.40
46:DU:27:LEU:HA	46:DU:27:LEU:HD13	1.85	0.40
46:DU:92:ARG:O	46:DU:93:LYS:C	2.59	0.40
48:DW:36:LEU:HD13	48:DW:48:ALA:N	2.36	0.40
48:DW:47:VAL:O	48:DW:48:ALA:C	2.59	0.40
49:DX:21:PHE:O	49:DX:22:ALA:C	2.59	0.40
51:DZ:151:HIS:O	51:DZ:152:ALA:HB3	2.20	0.40
1:AA:109:A:C4	1:AA:326:G:C2	3.09	0.40
1:AA:151:A:C6	1:AA:152:A:C4	3.09	0.40
1:AA:364:A:C2	1:AA:365:U:O4	2.75	0.40
1:AA:625:G:C5	1:AA:626:U:C5	3.09	0.40
1:AA:649:G:H2'	1:AA:650:G:H8	1.86	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:701:C:H1'	1:AA:703:G:C6	2.56	0.40
1:AA:944:G:C2	1:AA:1340:A:C6	3.09	0.40
1:AA:954:G:N2	1:AA:1226:C:O2	2.51	0.40
1:AA:1055:A:N6	1:AA:1206:G:C5	2.90	0.40
1:AA:1272:G:C5	1:AA:1273:G:C8	3.10	0.40
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.34	0.40
7:AG:148:ASN:C	7:AG:150:ALA:N	2.75	0.40
8:AH:4:ASP:OD2	8:AH:7:ALA:HB2	2.21	0.40
11:AK:69:ALA:CB	11:AK:103:LEU:HD23	2.48	0.40
17:AQ:67:LYS:C	17:AQ:69:LYS:H	2.24	0.40
18:AR:56:THR:OG1	18:AR:57:GLY:N	2.54	0.40
19:AS:7:LYS:HD3	19:AS:7:LYS:N	2.37	0.40
22:B0:19:LYS:HD2	22:B0:19:LYS:HA	1.72	0.40
28:B6:34:LEU:O	28:B6:36:LEU:HD23	2.21	0.40
29:B7:10:ARG:HH12	31:BA:1378:A:H5'	1.86	0.40
29:B7:42:LEU:HD23	29:B7:42:LEU:HA	1.69	0.40
30:B8:38:GLY:O	30:B8:39:LYS:HB3	2.21	0.40
31:BA:72:U:O2'	31:BA:73:A:H5'	2.22	0.40
31:BA:185:U:H2'	31:BA:186:G:O4'	2.20	0.40
31:BA:238:C:H2'	31:BA:239:U:O4'	2.22	0.40
31:BA:271(C):C:N3	31:BA:271(V):G:C2	2.89	0.40
31:BA:346:A:C2'	31:BA:347:A:O5'	2.70	0.40
31:BA:384:U:C2'	31:BA:385:C:H5'	2.51	0.40
31:BA:459:U:H2'	31:BA:460:A:H8	1.87	0.40
31:BA:478:A:C2	31:BA:480:A:C4	3.10	0.40
31:BA:567:A:N1	31:BA:571:A:C8	2.89	0.40
31:BA:588:U:C2	35:BF:90:PHE:CD1	3.10	0.40
31:BA:686:G:N3	31:BA:686:G:H5'	2.36	0.40
31:BA:745:G:OP1	34:BE:133:LYS:HE3	2.21	0.40
31:BA:960:A:C2	31:BA:2495:G:O2'	2.74	0.40
31:BA:1023:U:H4'	31:BA:1123:C:OP1	2.21	0.40
31:BA:1416:G:C4	31:BA:1417:C:C5	3.10	0.40
31:BA:1904:G:H2'	31:BA:1905:C:O4'	2.22	0.40
31:BA:2305:A:H2'	31:BA:2306:C:O4'	2.21	0.40
31:BA:2308:G:N2	31:BA:2309:A:N1	2.70	0.40
31:BA:2418:A:C4	31:BA:2419:U:C5	3.09	0.40
31:BA:2418:A:C6	31:BA:2419:U:C4	3.10	0.40
31:BA:2422:A:HO2'	31:BA:2423:U:P	2.44	0.40
31:BA:2472:G:O6	31:BA:2475:C:C6	2.75	0.40
31:BA:2526:G:C6	31:BA:2527:C:C4	3.10	0.40
31:BA:2649:U:O2'	31:BA:2650:U:H5'	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2734:A:C2'	31:BA:2735:G:H5'	2.51	0.40
31:BA:2819:G:C2'	31:BA:2820:A:O5'	2.70	0.40
32:BB:15:A:H1'	32:BB:110:G:C5	2.57	0.40
33:BD:15:PHE:HD2	33:BD:15:PHE:HA	1.78	0.40
33:BD:165:ILE:H	33:BD:165:ILE:HG12	1.65	0.40
36:BG:141:PHE:HE2	36:BG:155:MET:HE3	1.86	0.40
36:BG:178:PHE:H	36:BG:178:PHE:HD1	1.69	0.40
38:BI:86:THR:HG23	38:BI:122:GLU:HG2	2.02	0.40
39:BN:38:HIS:N	39:BN:38:HIS:ND1	2.68	0.40
39:BN:40:PRO:HB3	46:BU:68:ALA:HB2	2.03	0.40
39:BN:87:LEU:HD22	39:BN:91:LEU:HD11	2.03	0.40
39:BN:90:MET:O	39:BN:95:PRO:HA	2.21	0.40
39:BN:97:ARG:O	39:BN:101:HIS:N	2.50	0.40
39:BN:99:LEU:HD23	39:BN:99:LEU:HA	1.69	0.40
41:BP:80:TYR:CE1	41:BP:111:ARG:HG2	2.55	0.40
44:BS:67:ARG:O	44:BS:69:VAL:N	2.54	0.40
48:BW:4:LYS:HG2	48:BW:106:ILE:HG22	2.03	0.40
51:BZ:31:ARG:HG3	51:BZ:32:HIS:CE1	2.57	0.40
1:CA:19:C:H4'	1:CA:864:A:O4'	2.21	0.40
1:CA:84:U:C5	1:CA:88:A:C4	3.05	0.40
1:CA:201:C:N4	1:CA:203:U:C2	2.90	0.40
1:CA:233:C:C4	1:CA:234:C:C5	3.09	0.40
1:CA:236:G:C4	1:CA:237:C:C5	3.09	0.40
1:CA:261:U:H5	20:CT:79:ARG:HE	1.68	0.40
1:CA:373:A:C4	1:CA:374:A:C8	3.09	0.40
1:CA:378:G:C2	1:CA:386:C:C2	3.09	0.40
1:CA:436:C:HO2'	1:CA:437:U:P	2.44	0.40
1:CA:713:G:C6	1:CA:714:G:O6	2.75	0.40
1:CA:779:C:H2'	1:CA:780:A:H5'	2.00	0.40
1:CA:885:G:N3	1:CA:914:A:C2	2.89	0.40
1:CA:951:G:H1'	1:CA:970:C:O2'	2.21	0.40
1:CA:990:C:C2	1:CA:1216:G:N2	2.89	0.40
1:CA:1055:A:N6	1:CA:1206:G:C5	2.90	0.40
1:CA:1088:G:C4	1:CA:1089:G:N7	2.89	0.40
1:CA:1321:C:OP2	1:CA:1321:C:H6	2.04	0.40
2:CB:42:ILE:HG21	2:CB:203:GLY:HA2	2.03	0.40
3:CC:53:ALA:O	3:CC:54:ARG:CB	2.67	0.40
3:CC:157:ILE:CD1	3:CC:166:GLU:HB2	2.52	0.40
4:CD:68:TYR:O	4:CD:69:GLY:C	2.60	0.40
4:CD:158:ILE:HG23	4:CD:162:LEU:HD12	2.04	0.40
5:CE:15:ARG:HD2	5:CE:26:PHE:CG	2.56	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:101:ILE:O	5:CE:101:ILE:HG12	2.21	0.40
7:CG:54:THR:C	7:CG:56:GLN:H	2.25	0.40
8:CH:28:ALA:N	8:CH:58:TYR:HA	2.36	0.40
8:CH:56:LYS:HA	8:CH:57:PRO:HD2	1.87	0.40
12:CL:18:VAL:HG23	12:CL:19:ARG:N	2.33	0.40
16:CP:57:ARG:NH2	16:CP:79:VAL:O	2.54	0.40
20:CT:61:SER:O	20:CT:65:LYS:HG3	2.22	0.40
24:D2:32:LEU:HD21	31:DA:61:G:O2'	2.22	0.40
24:D2:55:ARG:HH22	49:DX:3:THR:HG22	1.83	0.40
25:D3:38:GLU:O	25:D3:43:ILE:HG13	2.22	0.40
25:D3:47:VAL:CG1	25:D3:56:VAL:HG21	2.51	0.40
26:D4:24:THR:O	26:D4:25:TYR:O	2.39	0.40
27:D5:36:CYS:CB	27:D5:38:ALA:HB2	2.51	0.40
31:DA:43:A:H2'	31:DA:44:G:C8	2.57	0.40
31:DA:271(E):U:O5'	31:DA:271(E):U:C6	2.69	0.40
31:DA:271(H):G:N2	31:DA:271(I):G:H1'	2.36	0.40
31:DA:272(D):G:C2	31:DA:365:C:N3	2.89	0.40
31:DA:310:A:C4	31:DA:312:G:C8	3.09	0.40
31:DA:516:C:O5'	31:DA:516:C:H6	2.05	0.40
31:DA:534:U:O2'	46:DU:49:HIS:HD2	2.04	0.40
31:DA:614:U:H2'	31:DA:614(A):U:O4'	2.22	0.40
31:DA:695:G:C4	31:DA:696:G:C8	3.09	0.40
31:DA:842:G:N2	31:DA:937:U:C2	2.89	0.40
31:DA:851:U:O2	31:DA:927:G:C2	2.75	0.40
31:DA:882:G:O5'	31:DA:882:G:H8	2.05	0.40
31:DA:1018:C:O2	31:DA:1018:C:H2'	2.20	0.40
31:DA:1142:U:H5''	31:DA:1142(A):A:H5''	2.03	0.40
31:DA:1254:A:H5'	31:DA:1255:U:O5'	2.21	0.40
31:DA:1254:A:C8	31:DA:1256:G:C8	3.09	0.40
31:DA:1294:U:O2'	43:DR:23:ASN:ND2	2.54	0.40
31:DA:1446:C:N3	31:DA:1466:G:C2	2.90	0.40
31:DA:1459:G:C8	31:DA:1461:G:N9	2.90	0.40
31:DA:1465:G:C2	31:DA:1466:G:N9	2.90	0.40
31:DA:1885:A:C5'	31:DA:1886:C:OP2	2.70	0.40
31:DA:1899:G:O2'	31:DA:1900:A:OP2	2.39	0.40
31:DA:1907:G:C2	31:DA:1924:C:C2	3.09	0.40
31:DA:1921:G:H2'	31:DA:1922:G:C8	2.54	0.40
31:DA:2312:U:O2'	31:DA:2313:C:H5'	2.20	0.40
31:DA:2392:A:C4	31:DA:2429:G:C6	3.10	0.40
31:DA:2525:G:C2	31:DA:2539:C:C2	3.09	0.40
31:DA:2607:G:C6	31:DA:2608:G:C6	3.09	0.40

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2658:C:H5'	31:DA:2659:G:OP2	2.20	0.40
32:DB:82:G:H2'	32:DB:83:G:C5'	2.51	0.40
33:DD:213:ARG:HD2	33:DD:213:ARG:HA	1.70	0.40
34:DE:6:GLY:HA2	34:DE:51:PHE:CE1	2.57	0.40
34:DE:169:ASN:CG	34:DE:201:THR:HG21	2.41	0.40
35:DF:38:ARG:HH11	41:DP:16:ARG:HH22	1.68	0.40
35:DF:42:ALA:O	35:DF:45:ARG:HB3	2.22	0.40
35:DF:81:PRO:HB3	35:DF:87:GLY:O	2.22	0.40
36:DG:105:LYS:O	36:DG:110:ALA:HB2	2.21	0.40
38:DI:5:LEU:HD21	38:DI:19:VAL:CG1	2.51	0.40
38:DI:5:LEU:HD21	38:DI:19:VAL:HG11	2.02	0.40
39:DN:3:THR:CA	39:DN:4:TYR:CD1	3.04	0.40
39:DN:42:TRP:CD1	39:DN:43:THR:N	2.89	0.40
39:DN:74:ARG:NH2	39:DN:101:HIS:HB3	2.36	0.40
40:DO:23:ARG:HA	40:DO:23:ARG:HD3	1.59	0.40
40:DO:108:GLU:H	40:DO:108:GLU:HG2	1.48	0.40
43:DR:43:GLU:OE2	43:DR:43:GLU:HA	2.20	0.40
43:DR:67:LEU:HD12	43:DR:67:LEU:HA	1.82	0.40
44:DS:58:LEU:HD12	44:DS:59:LYS:HG3	2.03	0.40
50:DY:7:VAL:HG11	50:DY:8:LYS:HZ2	1.86	0.40
50:DY:42:VAL:HB	50:DY:65:ALA:O	2.21	0.40
51:DZ:44:PHE:CE2	51:DZ:86:VAL:HG11	2.55	0.40

All (14) 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)
1:AA:358:U:OP2	38:DI:90:GLY:N[2_655]	1.80	0.40
1:AA:55:A:C8	38:DI:82:ARG:NE[2_655]	1.98	0.22
1:AA:55:A:O4'	38:DI:82:ARG:NE[2_655]	1.98	0.22
1:AA:358:U:O4'	38:DI:89:TYR:CD1[2_655]	1.99	0.21
1:AA:359:U:O5'	38:DI:87:LYS:O[2_655]	1.99	0.21
1:AA:358:U:OP2	38:DI:91:SER:N[2_655]	2.01	0.19
1:AA:359:U:OP2	38:DI:87:LYS:C[2_655]	2.02	0.18
1:AA:358:U:O4'	38:DI:89:TYR:CG[2_655]	2.03	0.17
1:AA:55:A:O5'	38:DI:82:ARG:NH2[2_655]	2.04	0.16
1:AA:358:U:O5'	38:DI:89:TYR:N[2_655]	2.10	0.10
38:BI:82:ARG:NH1	1:CA:55:A:N3[3_654]	2.13	0.07
1:AA:359:U:OP2	38:DI:88:ILE:N[2_655]	2.14	0.06
1:AA:55:A:C8	38:DI:82:ARG:CZ[2_655]	2.17	0.03
38:BI:88:ILE:O	1:CA:358:U:OP1[3_654]	2.17	0.03

## 5.3 Torsion angles

### 5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	168 (72%)	49 (21%)	16 (7%)	1	5
2	CB	233/256 (91%)	169 (72%)	48 (21%)	16 (7%)	1	5
3	AC	205/239 (86%)	152 (74%)	40 (20%)	13 (6%)	1	7
3	CC	205/239 (86%)	153 (75%)	40 (20%)	12 (6%)	1	8
4	AD	206/209 (99%)	131 (64%)	49 (24%)	26 (13%)	0	1
4	CD	206/209 (99%)	130 (63%)	48 (23%)	28 (14%)	0	1
5	AE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	3
5	CE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	3
6	AF	99/101 (98%)	69 (70%)	18 (18%)	12 (12%)	0	1
6	CF	99/101 (98%)	66 (67%)	20 (20%)	13 (13%)	0	1
7	AG	153/156 (98%)	126 (82%)	22 (14%)	5 (3%)	3	17
7	CG	153/156 (98%)	127 (83%)	21 (14%)	5 (3%)	3	17
8	AH	136/138 (99%)	100 (74%)	26 (19%)	10 (7%)	1	5
8	CH	136/138 (99%)	99 (73%)	28 (21%)	9 (7%)	1	6
9	AI	123/128 (96%)	85 (69%)	27 (22%)	11 (9%)	0	3
9	CI	123/128 (96%)	86 (70%)	26 (21%)	11 (9%)	0	3
10	AJ	97/105 (92%)	75 (77%)	19 (20%)	3 (3%)	3	19
10	CJ	97/105 (92%)	76 (78%)	18 (19%)	3 (3%)	3	19
11	AK	117/129 (91%)	87 (74%)	22 (19%)	8 (7%)	1	6
11	CK	117/129 (91%)	86 (74%)	23 (20%)	8 (7%)	1	6
12	AL	123/135 (91%)	76 (62%)	26 (21%)	21 (17%)	0	0
12	CL	123/135 (91%)	77 (63%)	24 (20%)	22 (18%)	0	0
13	AM	107/126 (85%)	75 (70%)	26 (24%)	6 (6%)	1	8
13	CM	107/126 (85%)	74 (69%)	27 (25%)	6 (6%)	1	8
14	AN	58/61 (95%)	48 (83%)	5 (9%)	5 (9%)	0	4

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CN	58/61 (95%)	48 (83%)	5 (9%)	5 (9%)	0	4
15	AO	86/89 (97%)	56 (65%)	21 (24%)	9 (10%)	0	2
15	CO	86/89 (97%)	56 (65%)	21 (24%)	9 (10%)	0	2
16	AP	82/88 (93%)	48 (58%)	21 (26%)	13 (16%)	0	0
16	CP	82/88 (93%)	48 (58%)	21 (26%)	13 (16%)	0	0
17	AQ	98/105 (93%)	76 (78%)	17 (17%)	5 (5%)	1	10
17	CQ	98/105 (93%)	76 (78%)	17 (17%)	5 (5%)	1	10
18	AR	68/88 (77%)	43 (63%)	20 (29%)	5 (7%)	1	5
18	CR	68/88 (77%)	42 (62%)	19 (28%)	7 (10%)	0	3
19	AS	77/93 (83%)	56 (73%)	15 (20%)	6 (8%)	1	4
19	CS	77/93 (83%)	56 (73%)	15 (20%)	6 (8%)	1	4
20	AT	97/106 (92%)	58 (60%)	24 (25%)	15 (16%)	0	0
20	CT	97/106 (92%)	53 (55%)	29 (30%)	15 (16%)	0	0
21	AU	23/27 (85%)	19 (83%)	3 (13%)	1 (4%)	2	13
21	CU	23/27 (85%)	19 (83%)	3 (13%)	1 (4%)	2	13
22	B0	83/85 (98%)	67 (81%)	9 (11%)	7 (8%)	0	4
22	D0	83/85 (98%)	62 (75%)	14 (17%)	7 (8%)	0	4
23	B1	87/98 (89%)	43 (49%)	27 (31%)	17 (20%)	0	0
23	D1	87/98 (89%)	44 (51%)	26 (30%)	17 (20%)	0	0
24	B2	49/72 (68%)	25 (51%)	14 (29%)	10 (20%)	0	0
24	D2	49/72 (68%)	26 (53%)	13 (26%)	10 (20%)	0	0
25	B3	58/60 (97%)	48 (83%)	9 (16%)	1 (2%)	7	30
25	D3	58/60 (97%)	44 (76%)	13 (22%)	1 (2%)	7	30
26	B4	30/71 (42%)	7 (23%)	11 (37%)	12 (40%)	0	0
26	D4	30/71 (42%)	6 (20%)	11 (37%)	13 (43%)	0	0
27	B5	57/60 (95%)	37 (65%)	8 (14%)	12 (21%)	0	0
27	D5	57/60 (95%)	36 (63%)	8 (14%)	13 (23%)	0	0
28	B6	41/54 (76%)	19 (46%)	10 (24%)	12 (29%)	0	0
28	D6	41/54 (76%)	18 (44%)	11 (27%)	12 (29%)	0	0
29	B7	47/49 (96%)	44 (94%)	2 (4%)	1 (2%)	5	25
29	D7	47/49 (96%)	45 (96%)	1 (2%)	1 (2%)	5	25

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	B8	62/65 (95%)	37 (60%)	15 (24%)	10 (16%)	0	0
30	D8	62/65 (95%)	38 (61%)	13 (21%)	11 (18%)	0	0
33	BD	270/276 (98%)	203 (75%)	50 (18%)	17 (6%)	1	7
33	DD	270/276 (98%)	202 (75%)	52 (19%)	16 (6%)	1	8
34	BE	203/206 (98%)	133 (66%)	43 (21%)	27 (13%)	0	1
34	DE	203/206 (98%)	136 (67%)	39 (19%)	28 (14%)	0	1
35	BF	206/210 (98%)	138 (67%)	44 (21%)	24 (12%)	0	1
35	DF	206/210 (98%)	137 (66%)	45 (22%)	24 (12%)	0	1
36	BG	177/182 (97%)	110 (62%)	46 (26%)	21 (12%)	0	1
36	DG	177/182 (97%)	109 (62%)	47 (27%)	21 (12%)	0	1
37	BH	158/180 (88%)	98 (62%)	38 (24%)	22 (14%)	0	1
37	DH	158/180 (88%)	97 (61%)	37 (23%)	24 (15%)	0	0
38	BI	144/148 (97%)	86 (60%)	36 (25%)	22 (15%)	0	0
38	DI	144/148 (97%)	83 (58%)	38 (26%)	23 (16%)	0	0
39	BN	137/140 (98%)	93 (68%)	29 (21%)	15 (11%)	0	2
39	DN	137/140 (98%)	97 (71%)	25 (18%)	15 (11%)	0	2
40	BO	120/122 (98%)	96 (80%)	19 (16%)	5 (4%)	2	13
40	DO	120/122 (98%)	98 (82%)	17 (14%)	5 (4%)	2	13
41	BP	144/150 (96%)	72 (50%)	31 (22%)	41 (28%)	0	0
41	DP	144/150 (96%)	72 (50%)	29 (20%)	43 (30%)	0	0
42	BQ	134/141 (95%)	92 (69%)	29 (22%)	13 (10%)	0	3
42	DQ	134/141 (95%)	91 (68%)	29 (22%)	14 (10%)	0	2
43	BR	115/118 (98%)	70 (61%)	34 (30%)	11 (10%)	0	3
43	DR	115/118 (98%)	71 (62%)	34 (30%)	10 (9%)	0	4
44	BS	97/112 (87%)	43 (44%)	26 (27%)	28 (29%)	0	0
44	DS	97/112 (87%)	41 (42%)	29 (30%)	27 (28%)	0	0
45	BT	130/146 (89%)	80 (62%)	25 (19%)	25 (19%)	0	0
45	DT	130/146 (89%)	80 (62%)	26 (20%)	24 (18%)	0	0
46	BU	115/118 (98%)	78 (68%)	29 (25%)	8 (7%)	1	5
46	DU	115/118 (98%)	82 (71%)	24 (21%)	9 (8%)	1	4
47	BV	97/101 (96%)	49 (50%)	24 (25%)	24 (25%)	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	DV	97/101 (96%)	47 (48%)	25 (26%)	25 (26%)	0	0
48	BW	111/113 (98%)	81 (73%)	11 (10%)	19 (17%)	0	0
48	DW	111/113 (98%)	78 (70%)	15 (14%)	18 (16%)	0	0
49	BX	91/96 (95%)	45 (50%)	22 (24%)	24 (26%)	0	0
49	DX	91/96 (95%)	45 (50%)	21 (23%)	25 (28%)	0	0
50	BY	99/110 (90%)	41 (41%)	25 (25%)	33 (33%)	0	0
50	DY	99/110 (90%)	41 (41%)	27 (27%)	31 (31%)	0	0
51	BZ	175/206 (85%)	117 (67%)	41 (23%)	17 (10%)	0	3
51	DZ	175/206 (85%)	116 (66%)	41 (23%)	18 (10%)	0	3
All	All	11148/12060 (92%)	7385 (66%)	2386 (21%)	1377 (12%)	0	1

All (1377) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	34	ALA
2	AB	165	VAL
2	AB	194	PRO
3	AC	54	ARG
3	AC	189	ALA
4	AD	3	ARG
4	AD	4	TYR
4	AD	10	ARG
4	AD	14	ARG
4	AD	47	ARG
5	AE	20	GLN
5	AE	71	LEU
5	AE	72	GLN
6	AF	34	GLY
6	AF	40	VAL
6	AF	96	PRO
7	AG	7	ALA
7	AG	33	ASP
8	AH	83	ILE
10	AJ	59	SER
11	AK	106	LYS
12	AL	23	LYS
12	AL	28	LYS
12	AL	51	ALA

Continued on next page...

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	AL	91	LYS
12	AL	106	ASP
12	AL	115	LYS
13	AM	83	ASP
13	AM	106	ASN
14	AN	16	PHE
15	AO	29	VAL
16	AP	10	GLY
16	AP	11	SER
16	AP	28	ARG
16	AP	39	TYR
17	AQ	3	LYS
17	AQ	34	LYS
18	AR	32	ARG
19	AS	28	LYS
20	AT	11	SER
20	AT	49	ALA
20	AT	71	THR
20	AT	74	LYS
20	AT	95	ALA
22	B0	44	ARG
23	B1	11	ARG
23	B1	14	VAL
23	B1	48	LYS
23	B1	55	GLY
23	B1	65	SER
23	B1	81	LYS
23	B1	94	LEU
23	B1	95	LEU
24	B2	16	LEU
24	B2	35	LEU
24	B2	49	LYS
26	B4	6	HIS
26	B4	7	PRO
26	B4	10	VAL
26	B4	11	PRO
26	B4	25	TYR
26	B4	27	THR
26	B4	29	PRO
27	B5	4	HIS
27	B5	47	PRO
27	B5	49	CYS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	B5	56	LYS
28	B6	16	CYS
28	B6	20	ASN
28	B6	28	ARG
28	B6	29	ASN
28	B6	31	PRO
28	B6	33	LYS
28	B6	51	GLU
30	B8	32	LEU
30	B8	35	GLN
30	B8	37	SER
30	B8	52	LYS
30	B8	64	TYR
33	BD	3	VAL
33	BD	26	LYS
33	BD	28	GLU
33	BD	33	LEU
33	BD	156	ALA
33	BD	159	ALA
33	BD	225	ALA
33	BD	239	ARG
34	BE	53	PRO
34	BE	71	GLY
34	BE	77	ILE
34	BE	82	ARG
34	BE	89	ASP
34	BE	93	VAL
34	BE	118	LYS
34	BE	131	ALA
35	BF	14	PRO
35	BF	133	ASN
36	BG	6	ALA
36	BG	47	LYS
36	BG	79	ASN
36	BG	82	LEU
36	BG	86	MET
36	BG	87	PRO
36	BG	90	LEU
36	BG	96	ARG
37	BH	13	LYS
37	BH	41	MET
37	BH	70	THR

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BH	138	LYS
37	BH	153	LYS
37	BH	154	PRO
37	BH	156	ALA
37	BH	170	ARG
38	BI	42	SER
38	BI	89	TYR
38	BI	91	SER
38	BI	133	HIS
38	BI	145	VAL
39	BN	58	ASP
39	BN	67	LEU
39	BN	74	ARG
39	BN	78	TYR
39	BN	79	PRO
39	BN	83	LYS
39	BN	129	PRO
40	BO	47	ILE
40	BO	48	PRO
41	BP	11	GLY
41	BP	14	LYS
41	BP	15	ARG
41	BP	18	ARG
41	BP	31	ALA
41	BP	40	SER
41	BP	47	ASP
41	BP	49	ARG
41	BP	52	GLU
41	BP	56	SER
41	BP	57	THR
41	BP	58	THR
41	BP	101	VAL
41	BP	106	LEU
41	BP	107	LYS
41	BP	108	LYS
41	BP	111	ARG
41	BP	119	GLU
41	BP	146	VAL
41	BP	147	LEU
42	BQ	8	LYS
42	BQ	21	THR
42	BQ	25	ASP

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	BQ	83	MET
42	BQ	135	ASP
43	BR	4	LEU
43	BR	5	LYS
43	BR	10	LEU
43	BR	117	VAL
44	BS	14	VAL
44	BS	33	LYS
44	BS	57	LYS
44	BS	59	LYS
44	BS	74	ALA
44	BS	100	ALA
44	BS	102	ALA
44	BS	103	GLU
45	BT	13	ARG
45	BT	18	ASP
45	BT	24	PRO
45	BT	26	ASP
45	BT	35	LYS
45	BT	36	GLU
45	BT	41	ARG
45	BT	42	ILE
45	BT	55	ASN
45	BT	58	ASN
45	BT	80	SER
45	BT	88	ILE
45	BT	94	ALA
45	BT	107	ASP
46	BU	32	PHE
46	BU	61	TRP
46	BU	62	ILE
46	BU	91	ASP
47	BV	3	ALA
47	BV	19	LYS
47	BV	23	GLU
47	BV	28	GLU
47	BV	40	LEU
47	BV	41	GLY
47	BV	47	VAL
47	BV	51	VAL
47	BV	57	VAL
47	BV	73	SER

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	BV	86	GLY
47	BV	90	PRO
48	BW	59	VAL
49	BX	24	GLY
49	BX	25	LYS
49	BX	34	ALA
49	BX	60	ARG
49	BX	73	ARG
49	BX	75	ASP
49	BX	77	LYS
49	BX	84	ALA
49	BX	88	LYS
49	BX	89	ILE
50	BY	3	VAL
50	BY	7	VAL
50	BY	19	LYS
50	BY	27	VAL
50	BY	31	LEU
50	BY	35	TYR
50	BY	56	PRO
50	BY	57	GLN
50	BY	64	GLU
50	BY	66	PRO
50	BY	69	ALA
50	BY	76	CYS
50	BY	78	ALA
50	BY	81	LYS
50	BY	100	ALA
51	BZ	168	GLU
51	BZ	172	ALA
2	CB	15	VAL
2	CB	34	ALA
2	CB	165	VAL
2	CB	194	PRO
3	CC	4	LYS
3	CC	54	ARG
3	CC	189	ALA
4	CD	3	ARG
4	CD	4	TYR
4	CD	10	ARG
4	CD	14	ARG
4	CD	47	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	CE	20	GLN
5	CE	72	GLN
6	CF	34	GLY
6	CF	40	VAL
6	CF	45	LEU
6	CF	81	ILE
6	CF	96	PRO
7	CG	7	ALA
7	CG	33	ASP
8	CH	83	ILE
10	CJ	59	SER
11	CK	100	ALA
11	CK	106	LYS
12	CL	23	LYS
12	CL	28	LYS
12	CL	51	ALA
12	CL	91	LYS
12	CL	106	ASP
12	CL	115	LYS
13	CM	12	ASN
13	CM	83	ASP
13	CM	106	ASN
14	CN	16	PHE
15	CO	29	VAL
16	CP	10	GLY
16	CP	11	SER
16	CP	28	ARG
17	CQ	34	LYS
18	CR	32	ARG
19	CS	28	LYS
20	CT	11	SER
20	CT	49	ALA
20	CT	71	THR
20	CT	74	LYS
22	D0	44	ARG
23	D1	11	ARG
23	D1	14	VAL
23	D1	48	LYS
23	D1	65	SER
23	D1	81	LYS
23	D1	94	LEU
23	D1	95	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	D2	16	LEU
24	D2	35	LEU
24	D2	49	LYS
26	D4	6	HIS
26	D4	7	PRO
26	D4	10	VAL
26	D4	11	PRO
26	D4	25	TYR
26	D4	27	THR
26	D4	29	PRO
27	D5	4	HIS
27	D5	47	PRO
27	D5	49	CYS
27	D5	56	LYS
28	D6	16	CYS
28	D6	20	ASN
28	D6	28	ARG
28	D6	29	ASN
28	D6	31	PRO
28	D6	33	LYS
28	D6	51	GLU
30	D8	32	LEU
30	D8	35	GLN
30	D8	37	SER
30	D8	52	LYS
33	DD	3	VAL
33	DD	26	LYS
33	DD	28	GLU
33	DD	156	ALA
33	DD	159	ALA
33	DD	225	ALA
33	DD	239	ARG
33	DD	267	SER
34	DE	53	PRO
34	DE	66	HIS
34	DE	71	GLY
34	DE	77	ILE
34	DE	82	ARG
34	DE	89	ASP
34	DE	93	VAL
34	DE	118	LYS
34	DE	131	ALA

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DF	14	PRO
35	DF	133	ASN
36	DG	6	ALA
36	DG	47	LYS
36	DG	79	ASN
36	DG	82	LEU
36	DG	86	MET
36	DG	87	PRO
36	DG	90	LEU
36	DG	96	ARG
37	DH	13	LYS
37	DH	41	MET
37	DH	44	VAL
37	DH	70	THR
37	DH	71	LEU
37	DH	138	LYS
37	DH	153	LYS
37	DH	154	PRO
37	DH	156	ALA
37	DH	170	ARG
38	DI	89	TYR
38	DI	91	SER
38	DI	133	HIS
38	DI	145	VAL
39	DN	58	ASP
39	DN	67	LEU
39	DN	74	ARG
39	DN	78	TYR
39	DN	79	PRO
39	DN	83	LYS
39	DN	129	PRO
40	DO	47	ILE
40	DO	48	PRO
41	DP	11	GLY
41	DP	14	LYS
41	DP	15	ARG
41	DP	18	ARG
41	DP	31	ALA
41	DP	40	SER
41	DP	42	SER
41	DP	47	ASP
41	DP	49	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	DP	52	GLU
41	DP	56	SER
41	DP	57	THR
41	DP	58	THR
41	DP	101	VAL
41	DP	106	LEU
41	DP	107	LYS
41	DP	108	LYS
41	DP	111	ARG
41	DP	119	GLU
41	DP	146	VAL
41	DP	147	LEU
42	DQ	8	LYS
42	DQ	21	THR
42	DQ	25	ASP
42	DQ	83	MET
42	DQ	135	ASP
43	DR	5	LYS
43	DR	10	LEU
43	DR	117	VAL
44	DS	14	VAL
44	DS	33	LYS
44	DS	57	LYS
44	DS	59	LYS
44	DS	74	ALA
44	DS	87	PHE
44	DS	100	ALA
44	DS	102	ALA
44	DS	103	GLU
45	DT	13	ARG
45	DT	18	ASP
45	DT	24	PRO
45	DT	26	ASP
45	DT	35	LYS
45	DT	36	GLU
45	DT	41	ARG
45	DT	42	ILE
45	DT	58	ASN
45	DT	80	SER
45	DT	88	ILE
45	DT	94	ALA
45	DT	107	ASP

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	DU	32	PHE
46	DU	61	TRP
46	DU	62	ILE
46	DU	91	ASP
47	DV	3	ALA
47	DV	19	LYS
47	DV	23	GLU
47	DV	28	GLU
47	DV	40	LEU
47	DV	41	GLY
47	DV	47	VAL
47	DV	51	VAL
47	DV	57	VAL
47	DV	73	SER
47	DV	86	GLY
47	DV	90	PRO
48	DW	59	VAL
49	DX	24	GLY
49	DX	25	LYS
49	DX	34	ALA
49	DX	60	ARG
49	DX	73	ARG
49	DX	77	LYS
49	DX	84	ALA
49	DX	88	LYS
49	DX	89	ILE
50	DY	3	VAL
50	DY	7	VAL
50	DY	19	LYS
50	DY	27	VAL
50	DY	31	LEU
50	DY	35	TYR
50	DY	56	PRO
50	DY	57	GLN
50	DY	64	GLU
50	DY	66	PRO
50	DY	69	ALA
50	DY	76	CYS
50	DY	78	ALA
50	DY	81	LYS
50	DY	100	ALA
51	DZ	168	GLU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	DZ	172	ALA
2	AB	18	GLY
2	AB	19	HIS
2	AB	65	GLY
2	AB	95	GLN
2	AB	154	LEU
2	AB	189	ASP
2	AB	195	ASP
2	AB	207	ALA
2	AB	237	ALA
3	AC	4	LYS
3	AC	12	LEU
3	AC	101	LEU
3	AC	156	ARG
3	AC	207	VAL
4	AD	44	GLY
4	AD	63	LYS
5	AE	11	ILE
5	AE	140	ARG
5	AE	146	ALA
5	AE	153	LYS
6	AF	42	GLU
6	AF	45	LEU
6	AF	81	ILE
7	AG	85	TYR
8	AH	52	ASP
9	AI	100	GLY
9	AI	117	HIS
9	AI	124	GLN
10	AJ	23	ILE
11	AK	48	ILE
11	AK	63	LEU
11	AK	76	GLY
11	AK	93	GLN
11	AK	100	ALA
12	AL	6	THR
12	AL	13	LYS
12	AL	29	GLY
12	AL	63	GLY
12	AL	76	ASN
12	AL	92	ASP
13	AM	4	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	AM	12	ASN
13	AM	100	GLY
14	AN	21	TYR
14	AN	52	GLN
16	AP	19	ILE
16	AP	50	LYS
16	AP	78	GLY
18	AR	36	ASN
19	AS	27	GLU
20	AT	20	LEU
20	AT	84	LEU
20	AT	96	GLY
20	AT	97	ALA
20	AT	101	GLY
22	B0	5	LYS
22	B0	9	SER
22	B0	83	PRO
23	B1	10	LYS
23	B1	33	LYS
23	B1	49	VAL
23	B1	87	PRO
24	B2	42	GLY
24	B2	47	ASN
24	B2	52	ASP
26	B4	13	ARG
26	B4	24	THR
27	B5	52	TYR
27	B5	53	ALA
28	B6	49	HIS
30	B8	31	HIS
30	B8	41	ILE
33	BD	74	GLY
33	BD	267	SER
34	BE	17	ASP
34	BE	57	LYS
34	BE	66	HIS
34	BE	88	GLY
34	BE	187	ALA
35	BF	5	ALA
35	BF	24	LEU
35	BF	66	PRO
35	BF	84	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BF	89	VAL
35	BF	119	ARG
36	BG	49	ASP
36	BG	111	LEU
36	BG	153	ARG
37	BH	44	VAL
37	BH	71	LEU
37	BH	92	ILE
37	BH	98	LEU
37	BH	126	PRO
37	BH	136	ILE
37	BH	141	VAL
37	BH	157	TYR
38	BI	15	VAL
38	BI	78	THR
38	BI	85	GLU
38	BI	94	ALA
38	BI	120	ILE
38	BI	122	GLU
39	BN	57	ALA
39	BN	64	GLY
39	BN	127	ASP
41	BP	34	GLY
41	BP	35	HIS
41	BP	42	SER
41	BP	67	MET
41	BP	89	ALA
41	BP	141	ALA
42	BQ	19	GLY
42	BQ	30	GLY
42	BQ	90	VAL
43	BR	7	GLY
43	BR	77	ARG
44	BS	77	ALA
44	BS	87	PHE
44	BS	89	ARG
44	BS	107	GLU
45	BT	68	TYR
45	BT	115	ARG
46	BU	89	GLU
46	BU	92	ARG
47	BV	18	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	BV	44	LYS
47	BV	53	GLU
47	BV	71	LEU
47	BV	72	VAL
48	BW	30	GLU
48	BW	56	ALA
48	BW	60	ASN
49	BX	19	ALA
49	BX	36	LYS
49	BX	37	THR
49	BX	68	ARG
49	BX	71	GLY
49	BX	72	LYS
49	BX	74	PRO
49	BX	81	VAL
49	BX	86	GLY
50	BY	10	GLY
50	BY	65	ALA
50	BY	77	PRO
50	BY	80	GLY
50	BY	98	VAL
51	BZ	64	GLY
51	BZ	80	ARG
51	BZ	81	ARG
51	BZ	111	VAL
51	BZ	121	HIS
51	BZ	142	SER
51	BZ	147	GLY
2	CB	18	GLY
2	CB	19	HIS
2	CB	65	GLY
2	CB	95	GLN
2	CB	189	ASP
2	CB	195	ASP
2	CB	237	ALA
3	CC	12	LEU
3	CC	101	LEU
3	CC	156	ARG
3	CC	207	VAL
4	CD	44	GLY
4	CD	63	LYS
5	CE	11	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	CE	71	LEU
5	CE	140	ARG
5	CE	146	ALA
5	CE	153	LYS
6	CF	42	GLU
7	CG	85	TYR
8	CH	52	ASP
9	CI	100	GLY
9	CI	117	HIS
9	CI	124	GLN
10	CJ	23	ILE
11	CK	48	ILE
11	CK	63	LEU
11	CK	76	GLY
11	CK	93	GLN
12	CL	22	SER
12	CL	29	GLY
12	CL	76	ASN
12	CL	92	ASP
13	CM	4	ILE
13	CM	100	GLY
14	CN	21	TYR
16	CP	19	ILE
16	CP	39	TYR
16	CP	50	LYS
16	CP	78	GLY
17	CQ	3	LYS
18	CR	36	ASN
19	CS	27	GLU
20	CT	20	LEU
20	CT	84	LEU
20	CT	95	ALA
20	CT	96	GLY
20	CT	97	ALA
20	CT	101	GLY
22	D0	5	LYS
22	D0	83	PRO
23	D1	10	LYS
23	D1	33	LYS
23	D1	49	VAL
23	D1	55	GLY
23	D1	87	PRO

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	D2	42	GLY
24	D2	47	ASN
24	D2	52	ASP
26	D4	13	ARG
26	D4	24	THR
27	D5	24	ALA
27	D5	48	GLU
27	D5	52	TYR
27	D5	53	ALA
28	D6	15	GLU
28	D6	41	PRO
28	D6	49	HIS
30	D8	31	HIS
30	D8	41	ILE
30	D8	64	TYR
33	DD	33	LEU
33	DD	74	GLY
34	DE	17	ASP
34	DE	57	LYS
34	DE	88	GLY
34	DE	186	GLY
35	DF	5	ALA
35	DF	66	PRO
35	DF	84	VAL
35	DF	85	GLY
35	DF	89	VAL
35	DF	119	ARG
36	DG	49	ASP
36	DG	111	LEU
36	DG	153	ARG
37	DH	90	LYS
37	DH	92	ILE
37	DH	98	LEU
37	DH	126	PRO
37	DH	136	ILE
37	DH	141	VAL
37	DH	151	ILE
37	DH	157	TYR
38	DI	15	VAL
38	DI	16	GLY
38	DI	42	SER
38	DI	78	THR

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	DI	85	GLU
38	DI	94	ALA
38	DI	97	ILE
38	DI	120	ILE
38	DI	122	GLU
39	DN	57	ALA
39	DN	64	GLY
39	DN	127	ASP
40	DO	56	ASP
40	DO	112	MET
41	DP	25	SER
41	DP	34	GLY
41	DP	35	HIS
41	DP	39	LYS
41	DP	65	ARG
41	DP	67	MET
41	DP	90	ARG
41	DP	141	ALA
42	DQ	30	GLY
42	DQ	90	VAL
43	DR	7	GLY
44	DS	85	VAL
44	DS	107	GLU
45	DT	55	ASN
45	DT	56	GLY
45	DT	68	TYR
45	DT	115	ARG
46	DU	89	GLU
46	DU	92	ARG
47	DV	18	LEU
47	DV	44	LYS
47	DV	53	GLU
47	DV	71	LEU
47	DV	72	VAL
48	DW	30	GLU
48	DW	44	ALA
48	DW	56	ALA
48	DW	60	ASN
49	DX	19	ALA
49	DX	36	LYS
49	DX	59	VAL
49	DX	68	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	DX	71	GLY
49	DX	72	LYS
49	DX	74	PRO
49	DX	75	ASP
49	DX	81	VAL
49	DX	86	GLY
50	DY	10	GLY
50	DY	38	ILE
50	DY	77	PRO
50	DY	80	GLY
50	DY	98	VAL
51	DZ	64	GLY
51	DZ	81	ARG
51	DZ	111	VAL
51	DZ	121	HIS
51	DZ	142	SER
51	DZ	147	GLY
4	AD	31	CYS
4	AD	53	ASP
4	AD	73	ARG
4	AD	109	GLY
4	AD	142	PRO
5	AE	128	PRO
6	AF	13	ASN
6	AF	16	GLN
8	AH	51	VAL
8	AH	133	LEU
9	AI	23	ASN
10	AJ	36	GLY
12	AL	12	ARG
12	AL	22	SER
13	AM	107	ALA
14	AN	28	GLY
15	AO	88	ARG
16	AP	24	ALA
17	AQ	78	GLU
17	AQ	96	GLU
19	AS	5	LEU
20	AT	40	ALA
21	AU	25	LYS
22	B0	13	GLY
24	B2	32	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	B4	14	ILE
27	B5	24	ALA
27	B5	48	GLU
28	B6	15	GLU
28	B6	41	PRO
30	B8	30	ARG
30	B8	36	LYS
33	BD	12	SER
33	BD	134	ARG
33	BD	241	PRO
33	BD	272	ALA
34	BE	119	ARG
34	BE	174	ASP
35	BF	2	LYS
35	BF	11	VAL
35	BF	20	LEU
35	BF	31	HIS
35	BF	42	ALA
36	BG	42	GLY
36	BG	97	ASP
36	BG	130	ASN
36	BG	148	MET
37	BH	90	LYS
37	BH	117	PRO
37	BH	151	ILE
38	BI	5	LEU
38	BI	14	ASP
38	BI	16	GLY
38	BI	34	GLY
39	BN	135	PRO
40	BO	5	GLN
40	BO	56	ASP
40	BO	112	MET
41	BP	8	PRO
41	BP	25	SER
41	BP	39	LYS
41	BP	65	ARG
41	BP	90	ARG
41	BP	91	PHE
41	BP	102	ARG
42	BQ	15	GLY
43	BR	12	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	BR	106	GLY
44	BS	23	ARG
44	BS	24	LEU
44	BS	56	LEU
44	BS	85	VAL
44	BS	94	TYR
45	BT	81	PRO
45	BT	90	GLN
45	BT	116	ALA
47	BV	24	LYS
47	BV	52	VAL
47	BV	68	LYS
48	BW	63	ASP
48	BW	65	LEU
49	BX	59	VAL
49	BX	90	GLU
49	BX	91	ALA
50	BY	38	ILE
50	BY	39	VAL
50	BY	50	ARG
50	BY	70	SER
50	BY	89	PHE
51	BZ	79	ARG
51	BZ	166	SER
2	CB	154	LEU
2	CB	207	ALA
3	CC	18	TRP
4	CD	25	ARG
4	CD	31	CYS
4	CD	73	ARG
4	CD	110	PHE
4	CD	142	PRO
5	CE	107	ARG
5	CE	128	PRO
6	CF	13	ASN
6	CF	16	GLN
6	CF	47	ARG
7	CG	89	MET
8	CH	37	ARG
8	CH	51	VAL
8	CH	133	LEU
9	CI	23	ASN

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	CJ	36	GLY
11	CK	54	ARG
12	CL	6	THR
12	CL	12	ARG
12	CL	63	GLY
12	CL	89	ARG
13	CM	107	ALA
14	CN	28	GLY
14	CN	52	GLN
15	CO	88	ARG
16	CP	24	ALA
17	CQ	78	GLU
17	CQ	96	GLU
19	CS	5	LEU
21	CU	25	LYS
22	D0	9	SER
22	D0	13	GLY
23	D1	38	SER
23	D1	83	GLU
24	D2	32	LEU
26	D4	14	ILE
26	D4	20	ASN
27	D5	43	HIS
30	D8	30	ARG
30	D8	36	LYS
33	DD	241	PRO
34	DE	187	ALA
34	DE	201	THR
35	DF	2	LYS
35	DF	11	VAL
35	DF	20	LEU
35	DF	24	LEU
35	DF	42	ALA
35	DF	47	GLY
36	DG	42	GLY
36	DG	97	ASP
36	DG	130	ASN
36	DG	148	MET
37	DH	72	ILE
37	DH	117	PRO
38	DI	5	LEU
39	DN	135	PRO

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	DO	5	GLN
41	DP	89	ALA
41	DP	91	PHE
41	DP	102	ARG
42	DQ	19	GLY
43	DR	4	LEU
43	DR	12	ARG
43	DR	77	ARG
43	DR	88	ARG
43	DR	106	GLY
44	DS	24	LEU
44	DS	77	ALA
44	DS	89	ARG
44	DS	94	TYR
45	DT	81	PRO
45	DT	90	GLN
47	DV	65	GLY
47	DV	68	LYS
48	DW	42	ARG
48	DW	45	TYR
48	DW	57	ASN
48	DW	58	ALA
48	DW	63	ASP
48	DW	65	LEU
48	DW	67	ASP
49	DX	37	THR
50	DY	16	ALA
50	DY	39	VAL
50	DY	42	VAL
50	DY	65	ALA
50	DY	89	PHE
51	DZ	50	GLN
51	DZ	79	ARG
51	DZ	80	ARG
51	DZ	166	SER
2	AB	226	ARG
3	AC	15	THR
3	AC	18	TRP
3	AC	62	ASP
4	AD	5	ILE
4	AD	25	ARG
4	AD	28	SER

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	AD	42	GLN
4	AD	110	PHE
4	AD	193	ASP
5	AE	105	VAL
6	AF	47	ARG
6	AF	82	ARG
7	AG	14	PRO
7	AG	89	MET
8	AH	2	LEU
8	AH	37	ARG
8	AH	68	ARG
9	AI	105	ASP
11	AK	54	ARG
15	AO	4	THR
15	AO	21	ASP
15	AO	44	LYS
15	AO	76	GLU
16	AP	83	GLU
19	AS	6	LYS
19	AS	29	ARG
20	AT	98	PRO
22	B0	15	ASP
22	B0	55	ARG
23	B1	38	SER
23	B1	83	GLU
24	B2	51	ARG
26	B4	20	ASN
27	B5	43	HIS
28	B6	23	THR
29	B7	2	LYS
33	BD	58	HIS
34	BE	58	ARG
34	BE	60	ASN
34	BE	173	VAL
34	BE	186	GLY
35	BF	54	ARG
35	BF	68	LYS
35	BF	127	GLU
35	BF	146	ALA
35	BF	164	ARG
35	BF	206	ILE
36	BG	99	MET

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BG	142	PRO
37	BH	72	ILE
37	BH	89	ILE
38	BI	49	ALA
38	BI	97	ILE
39	BN	63	THR
39	BN	73	THR
41	BP	38	GLN
41	BP	53	GLY
41	BP	100	LEU
42	BQ	7	MET
42	BQ	11	LYS
42	BQ	82	ARG
42	BQ	89	ASN
43	BR	23	ASN
43	BR	88	ARG
43	BR	104	ARG
44	BS	15	ARG
44	BS	29	PHE
44	BS	58	LEU
44	BS	64	GLU
44	BS	79	ALA
45	BT	56	GLY
45	BT	97	ALA
45	BT	103	ARG
47	BV	36	PRO
47	BV	70	ILE
48	BW	42	ARG
48	BW	44	ALA
48	BW	58	ALA
48	BW	67	ASP
48	BW	75	TYR
50	BY	16	ALA
50	BY	101	LYS
51	BZ	120	ILE
51	BZ	140	ASP
51	BZ	146	ILE
2	CB	226	ARG
3	CC	15	THR
3	CC	62	ASP
4	CD	5	ILE
4	CD	28	SER

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	CD	42	GLN
4	CD	109	GLY
4	CD	136	PRO
4	CD	193	ASP
5	CE	58	ALA
5	CE	105	VAL
6	CF	62	TRP
6	CF	82	ARG
7	CG	14	PRO
8	CH	2	LEU
8	CH	41	ARG
9	CI	105	ASP
12	CL	13	LYS
14	CN	56	VAL
15	CO	16	ALA
15	CO	21	ASP
15	CO	44	LYS
15	CO	76	GLU
16	CP	81	ARG
16	CP	83	GLU
19	CS	29	ARG
19	CS	30	LEU
20	CT	40	ALA
20	CT	98	PRO
22	D0	15	ASP
24	D2	51	ARG
26	D4	16	CYS
28	D6	23	THR
33	DD	134	ARG
33	DD	272	ALA
34	DE	58	ARG
34	DE	119	ARG
34	DE	129	HIS
34	DE	173	VAL
35	DF	31	HIS
35	DF	54	ARG
35	DF	127	GLU
35	DF	146	ALA
35	DF	206	ILE
36	DG	99	MET
36	DG	115	ARG
36	DG	142	PRO

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	DH	89	ILE
38	DI	14	ASP
38	DI	25	TYR
38	DI	30	LEU
39	DN	63	THR
41	DP	8	PRO
41	DP	37	GLY
41	DP	100	LEU
41	DP	104	GLY
42	DQ	11	LYS
42	DQ	13	GLN
42	DQ	82	ARG
42	DQ	89	ASN
43	DR	104	ARG
44	DS	23	ARG
44	DS	29	PHE
44	DS	56	LEU
44	DS	64	GLU
45	DT	110	ILE
45	DT	116	ALA
46	DU	73	GLY
47	DV	24	LYS
47	DV	52	VAL
47	DV	70	ILE
48	DW	6	ILE
48	DW	66	GLU
48	DW	75	TYR
49	DX	85	PRO
49	DX	90	GLU
49	DX	91	ALA
50	DY	50	ARG
50	DY	67	LEU
50	DY	70	SER
50	DY	101	LYS
51	DZ	120	ILE
51	DZ	140	ASP
3	AC	60	ALA
4	AD	13	ARG
4	AD	105	VAL
4	AD	136	PRO
4	AD	181	MET
4	AD	189	PRO

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	AE	58	ALA
5	AE	73	ASN
6	AF	54	LYS
6	AF	62	TRP
9	AI	10	ARG
9	AI	24	GLY
9	AI	29	ASN
12	AL	19	ARG
12	AL	94	PRO
12	AL	121	GLY
14	AN	56	VAL
15	AO	16	ALA
15	AO	24	SER
16	AP	46	PRO
16	AP	64	ALA
16	AP	81	ARG
18	AR	20	ALA
19	AS	30	LEU
20	AT	47	GLY
20	AT	63	ILE
20	AT	73	HIS
23	B1	86	SER
26	B4	16	CYS
27	B5	33	CYS
27	B5	59	GLU
28	B6	52	VAL
34	BE	56	PRO
34	BE	90	THR
34	BE	129	HIS
34	BE	130	GLY
34	BE	159	HIS
35	BF	10	PRO
35	BF	30	PRO
35	BF	85	GLY
36	BG	35	GLU
36	BG	115	ARG
36	BG	128	ARG
38	BI	30	LEU
38	BI	71	ILE
41	BP	9	ASN
41	BP	104	GLY
44	BS	88	ASP

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	BT	128	GLU
46	BU	73	GLY
47	BV	50	PRO
47	BV	65	GLY
48	BW	6	ILE
48	BW	48	ALA
48	BW	66	GLU
49	BX	22	ALA
50	BY	11	ASP
50	BY	42	VAL
50	BY	67	LEU
50	BY	90	LEU
51	BZ	50	GLN
3	CC	60	ALA
4	CD	13	ARG
4	CD	53	ASP
4	CD	59	ARG
4	CD	181	MET
4	CD	206	PHE
5	CE	18	ARG
5	CE	21	ALA
5	CE	129	ILE
6	CF	54	LYS
8	CH	22	GLU
9	CI	10	ARG
9	CI	24	GLY
9	CI	29	ASN
12	CL	19	ARG
12	CL	47	LYS
12	CL	71	PRO
12	CL	94	PRO
15	CO	4	THR
15	CO	24	SER
15	CO	65	ARG
16	CP	29	ASP
18	CR	20	ALA
18	CR	45	SER
18	CR	63	GLN
19	CS	6	LYS
20	CT	47	GLY
20	CT	63	ILE
20	CT	73	HIS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	D1	28	GLY
24	D2	40	SER
27	D5	59	GLU
28	D6	52	VAL
29	D7	2	LYS
33	DD	242	ARG
34	DE	56	PRO
34	DE	60	ASN
34	DE	90	THR
34	DE	94	GLU
34	DE	153	GLY
35	DF	10	PRO
35	DF	30	PRO
35	DF	144	LYS
36	DG	35	GLU
37	DH	140	LYS
38	DI	26	ALA
38	DI	49	ALA
38	DI	53	ALA
38	DI	71	ILE
39	DN	73	THR
41	DP	9	ASN
41	DP	38	GLN
41	DP	115	LEU
41	DP	123	LEU
42	DQ	7	MET
44	DS	15	ARG
44	DS	58	LEU
44	DS	79	ALA
44	DS	88	ASP
45	DT	103	ARG
45	DT	128	GLU
46	DU	58	ARG
47	DV	36	PRO
47	DV	50	PRO
49	DX	4	ALA
49	DX	22	ALA
50	DY	22	GLY
50	DY	90	LEU
4	AD	7	PRO
5	AE	21	ALA
5	AE	107	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	AE	147	ASP
8	AH	22	GLU
8	AH	41	ARG
9	AI	107	ARG
12	AL	18	VAL
12	AL	26	ALA
12	AL	47	LYS
15	AO	65	ARG
16	AP	65	GLN
18	AR	63	GLN
23	B1	28	GLY
23	B1	36	GLY
24	B2	40	SER
24	B2	50	ILE
33	BD	34	VAL
34	BE	72	VAL
37	BH	168	PRO
38	BI	25	TYR
41	BP	10	PRO
41	BP	74	GLU
45	BT	7	ILE
46	BU	90	VAL
48	BW	14	PRO
48	BW	57	ASN
48	BW	93	ALA
49	BX	4	ALA
4	CD	7	PRO
4	CD	24	GLU
5	CE	147	ASP
12	CL	121	GLY
16	CP	46	PRO
16	CP	65	GLN
22	D0	55	ARG
23	D1	86	SER
24	D2	50	ILE
26	D4	3	GLU
27	D5	32	PRO
27	D5	33	CYS
30	D8	25	MET
34	DE	130	GLY
34	DE	174	ASP
36	DG	128	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	DH	42	ARG
37	DH	168	PRO
41	DP	144	GLU
44	DS	28	VAL
46	DU	90	VAL
47	DV	39	LEU
48	DW	14	PRO
51	DZ	109	ALA
2	AB	208	ILE
8	AH	86	ILE
9	AI	123	PRO
27	B5	32	PRO
33	BD	170	GLY
35	BF	47	GLY
36	BG	129	GLY
38	BI	119	PRO
41	BP	144	GLU
44	BS	28	VAL
45	BT	110	ILE
48	BW	112	GLY
4	CD	105	VAL
8	CH	86	ILE
9	CI	97	LYS
9	CI	123	PRO
11	CK	105	VAL
12	CL	18	VAL
27	D5	34	PRO
34	DE	72	VAL
35	DF	25	PRO
38	DI	84	GLY
38	DI	119	PRO
39	DN	80	GLY
41	DP	53	GLY
42	DQ	15	GLY
48	DW	80	PRO
48	DW	112	GLY
51	DZ	177	PRO
4	AD	40	PRO
9	AI	97	LYS
11	AK	105	VAL
12	AL	71	PRO
30	B8	38	GLY

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BF	25	PRO
38	BI	84	GLY
39	BN	128	HIS
44	BS	108	GLY
51	BZ	177	PRO
23	D1	36	GLY
25	D3	13	ILE
30	D8	38	GLY
33	DD	34	VAL
36	DG	129	GLY
39	DN	128	HIS
41	DP	10	PRO
44	DS	60	GLY
44	DS	108	GLY
51	DZ	47	VAL
51	DZ	146	ILE
18	AR	22	VAL
25	B3	13	ILE
39	BN	80	GLY
44	BS	60	GLY
51	BZ	47	VAL
2	CB	208	ILE
6	CF	95	GLU
12	CL	72	GLY
17	CQ	35	VAL
18	CR	22	VAL
2	AB	230	VAL
3	AC	145	GLY
4	AD	56	VAL
17	AQ	35	VAL
34	BE	153	GLY
44	BS	22	GLY
44	BS	35	ILE
50	BY	22	GLY
2	CB	230	VAL
3	CC	145	GLY
4	CD	40	PRO
18	CR	70	ILE
33	DD	127	VAL
35	DF	86	GLY
44	DS	22	GLY
3	AC	66	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
5	AE	129	ILE
48	BW	80	PRO
4	CD	189	PRO
9	CI	109	VAL
45	DT	7	ILE
50	BY	32	PRO
34	DE	147	PRO
34	BE	147	PRO

### 5.3.2 Protein sidechains [i](#)

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%)	182 (90%)	20 (10%)	6	24
2	CB	202/220 (92%)	183 (91%)	19 (9%)	7	27
3	AC	160/188 (85%)	154 (96%)	6 (4%)	28	59
3	CC	160/188 (85%)	154 (96%)	6 (4%)	28	59
4	AD	180/181 (99%)	157 (87%)	23 (13%)	3	15
4	CD	180/181 (99%)	156 (87%)	24 (13%)	3	13
5	AE	115/123 (94%)	101 (88%)	14 (12%)	4	16
5	CE	115/123 (94%)	101 (88%)	14 (12%)	4	16
6	AF	90/90 (100%)	80 (89%)	10 (11%)	5	20
6	CF	90/90 (100%)	80 (89%)	10 (11%)	5	20
7	AG	126/127 (99%)	120 (95%)	6 (5%)	21	51
7	CG	126/127 (99%)	120 (95%)	6 (5%)	21	51
8	AH	119/119 (100%)	104 (87%)	15 (13%)	3	15
8	CH	119/119 (100%)	105 (88%)	14 (12%)	4	17
9	AI	98/99 (99%)	87 (89%)	11 (11%)	5	20
9	CI	98/99 (99%)	88 (90%)	10 (10%)	6	23
10	AJ	88/92 (96%)	75 (85%)	13 (15%)	2	10

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	CJ	88/92 (96%)	76 (86%)	12 (14%)	3	13
11	AK	90/99 (91%)	83 (92%)	7 (8%)	10	35
11	CK	90/99 (91%)	83 (92%)	7 (8%)	10	35
12	AL	104/111 (94%)	94 (90%)	10 (10%)	7	26
12	CL	104/111 (94%)	94 (90%)	10 (10%)	7	26
13	AM	93/101 (92%)	85 (91%)	8 (9%)	8	31
13	CM	93/101 (92%)	85 (91%)	8 (9%)	8	31
14	AN	49/50 (98%)	46 (94%)	3 (6%)	15	43
14	CN	49/50 (98%)	46 (94%)	3 (6%)	15	43
15	AO	79/80 (99%)	71 (90%)	8 (10%)	6	23
15	CO	79/80 (99%)	71 (90%)	8 (10%)	6	23
16	AP	72/74 (97%)	61 (85%)	11 (15%)	2	10
16	CP	72/74 (97%)	61 (85%)	11 (15%)	2	10
17	AQ	94/97 (97%)	86 (92%)	8 (8%)	8	32
17	CQ	94/97 (97%)	86 (92%)	8 (8%)	8	32
18	AR	61/77 (79%)	55 (90%)	6 (10%)	6	25
18	CR	61/77 (79%)	55 (90%)	6 (10%)	6	25
19	AS	69/80 (86%)	60 (87%)	9 (13%)	3	14
19	CS	69/80 (86%)	60 (87%)	9 (13%)	3	14
20	AT	76/82 (93%)	65 (86%)	11 (14%)	2	11
20	CT	76/82 (93%)	64 (84%)	12 (16%)	2	9
21	AU	19/22 (86%)	19 (100%)	0	100	100
21	CU	19/22 (86%)	19 (100%)	0	100	100
22	B0	61/67 (91%)	48 (79%)	13 (21%)	1	4
22	D0	61/67 (91%)	48 (79%)	13 (21%)	1	4
23	B1	73/83 (88%)	51 (70%)	22 (30%)	0	0
23	D1	73/83 (88%)	53 (73%)	20 (27%)	0	1
24	B2	46/67 (69%)	28 (61%)	18 (39%)	0	0
24	D2	46/67 (69%)	28 (61%)	18 (39%)	0	0
25	B3	51/52 (98%)	41 (80%)	10 (20%)	1	5
25	D3	51/52 (98%)	42 (82%)	9 (18%)	1	7

Continued on next page...

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
27	B5	51/52 (98%)	39 (76%)	12 (24%)	0	2
27	D5	51/52 (98%)	41 (80%)	10 (20%)	1	5
28	B6	43/52 (83%)	27 (63%)	16 (37%)	0	0
28	D6	43/52 (83%)	28 (65%)	15 (35%)	0	0
29	B7	41/42 (98%)	32 (78%)	9 (22%)	1	3
29	D7	41/42 (98%)	31 (76%)	10 (24%)	0	2
30	B8	53/55 (96%)	36 (68%)	17 (32%)	0	0
30	D8	53/55 (96%)	35 (66%)	18 (34%)	0	0
33	BD	213/218 (98%)	160 (75%)	53 (25%)	0	1
33	DD	213/218 (98%)	157 (74%)	56 (26%)	0	1
34	BE	165/166 (99%)	127 (77%)	38 (23%)	0	3
34	DE	165/166 (99%)	126 (76%)	39 (24%)	0	2
35	BF	165/166 (99%)	130 (79%)	35 (21%)	1	4
35	DF	165/166 (99%)	132 (80%)	33 (20%)	1	4
36	BG	155/156 (99%)	126 (81%)	29 (19%)	1	5
36	DG	155/156 (99%)	126 (81%)	29 (19%)	1	5
37	BH	132/148 (89%)	105 (80%)	27 (20%)	1	4
37	DH	132/148 (89%)	107 (81%)	25 (19%)	1	5
38	BI	122/124 (98%)	99 (81%)	23 (19%)	1	5
38	DI	122/124 (98%)	100 (82%)	22 (18%)	1	6
39	BN	117/119 (98%)	80 (68%)	37 (32%)	0	0
39	DN	117/119 (98%)	81 (69%)	36 (31%)	0	0
40	BO	100/100 (100%)	82 (82%)	18 (18%)	1	6
40	DO	100/100 (100%)	80 (80%)	20 (20%)	1	4
41	BP	112/116 (97%)	67 (60%)	45 (40%)	0	0
41	DP	112/116 (97%)	67 (60%)	45 (40%)	0	0
42	BQ	106/111 (96%)	81 (76%)	25 (24%)	0	2
42	DQ	106/111 (96%)	82 (77%)	24 (23%)	1	3
43	BR	100/101 (99%)	76 (76%)	24 (24%)	0	2
43	DR	100/101 (99%)	76 (76%)	24 (24%)	0	2
44	BS	77/88 (88%)	59 (77%)	18 (23%)	0	2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	DS	77/88 (88%)	59 (77%)	18 (23%)	0	2
45	BT	116/127 (91%)	76 (66%)	40 (34%)	0	0
45	DT	116/127 (91%)	77 (66%)	39 (34%)	0	0
46	BU	92/94 (98%)	74 (80%)	18 (20%)	1	5
46	DU	92/94 (98%)	71 (77%)	21 (23%)	0	3
47	BV	82/82 (100%)	56 (68%)	26 (32%)	0	0
47	DV	82/82 (100%)	57 (70%)	25 (30%)	0	0
48	BW	91/92 (99%)	67 (74%)	24 (26%)	0	1
48	DW	91/92 (99%)	69 (76%)	22 (24%)	0	2
49	BX	74/78 (95%)	55 (74%)	19 (26%)	0	1
49	DX	74/78 (95%)	54 (73%)	20 (27%)	0	1
50	BY	84/91 (92%)	67 (80%)	17 (20%)	1	4
50	DY	84/91 (92%)	66 (79%)	18 (21%)	1	4
51	BZ	155/179 (87%)	132 (85%)	23 (15%)	2	10
51	DZ	155/179 (87%)	131 (84%)	24 (16%)	2	9
All	All	9322/9876 (94%)	7617 (82%)	1705 (18%)	1	6

All (1705) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	9	GLU
2	AB	10	LEU
2	AB	12	GLU
2	AB	15	VAL
2	AB	22	LYS
2	AB	36	ARG
2	AB	42	ILE
2	AB	79	ASP
2	AB	121	LEU
2	AB	130	ARG
2	AB	137	ARG
2	AB	145	LEU
2	AB	163	PHE
2	AB	178	ARG
2	AB	196	LEU
2	AB	198	ASP
2	AB	205	ASP

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	206	ASP
2	AB	215	LEU
2	AB	221	LEU
3	AC	5	ILE
3	AC	12	LEU
3	AC	27	LYS
3	AC	77	ILE
3	AC	104	GLN
3	AC	156	ARG
4	AD	3	ARG
4	AD	8	VAL
4	AD	11	LEU
4	AD	17	VAL
4	AD	19	LEU
4	AD	27	TYR
4	AD	33	MET
4	AD	38	TYR
4	AD	49	ARG
4	AD	62	GLN
4	AD	79	PHE
4	AD	98	GLU
4	AD	122	ARG
4	AD	127	THR
4	AD	131	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	138	TYR
4	AD	154	ASN
4	AD	158	ILE
4	AD	170	VAL
4	AD	200	GLU
4	AD	209	ARG
5	AE	10	MET
5	AE	12	LEU
5	AE	16	THR
5	AE	20	GLN
5	AE	26	PHE
5	AE	31	LEU
5	AE	41	VAL
5	AE	45	PHE
5	AE	73	ASN
5	AE	76	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	AE	79	GLU
5	AE	91	LEU
5	AE	101	ILE
5	AE	107	ARG
6	AF	19	LEU
6	AF	21	LEU
6	AF	46	ARG
6	AF	55	ASP
6	AF	59	TYR
6	AF	63	TYR
6	AF	80	ARG
6	AF	94	GLN
6	AF	97	PHE
6	AF	98	LEU
7	AG	36	LYS
7	AG	54	THR
7	AG	79	ARG
7	AG	92	SER
7	AG	118	VAL
7	AG	151	TYR
8	AH	1	MET
8	AH	10	LEU
8	AH	24	THR
8	AH	26	VAL
8	AH	51	VAL
8	AH	52	ASP
8	AH	77	GLU
8	AH	91	ARG
8	AH	92	ARG
8	AH	95	VAL
8	AH	99	GLU
8	AH	102	ARG
8	AH	109	ILE
8	AH	114	THR
8	AH	133	LEU
9	AI	3	GLN
9	AI	10	ARG
9	AI	95	LYS
9	AI	99	LEU
9	AI	101	PHE
9	AI	105	ASP
9	AI	113	LYS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	AI	114	TYR
9	AI	121	ARG
9	AI	125	TYR
9	AI	128	ARG
10	AJ	12	ASP
10	AJ	22	LYS
10	AJ	29	ARG
10	AJ	45	ARG
10	AJ	47	PHE
10	AJ	50	ILE
10	AJ	62	HIS
10	AJ	74	ILE
10	AJ	80	LYS
10	AJ	84	GLN
10	AJ	92	THR
10	AJ	96	ILE
10	AJ	100	THR
11	AK	38	ASN
11	AK	48	ILE
11	AK	63	LEU
11	AK	84	VAL
11	AK	92	GLU
11	AK	107	SER
11	AK	127	LYS
12	AL	20	LYS
12	AL	41	ARG
12	AL	42	THR
12	AL	55	VAL
12	AL	70	ILE
12	AL	75	HIS
12	AL	85	ILE
12	AL	89	ARG
12	AL	92	ASP
12	AL	102	ARG
13	AM	14	ARG
13	AM	64	TRP
13	AM	66	LEU
13	AM	70	LEU
13	AM	82	MET
13	AM	93	ARG
13	AM	106	ASN
13	AM	108	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	AN	16	PHE
14	AN	18	VAL
14	AN	44	LEU
15	AO	3	ILE
15	AO	26	GLU
15	AO	38	ARG
15	AO	39	LEU
15	AO	64	ARG
15	AO	65	ARG
15	AO	66	LEU
15	AO	82	ILE
16	AP	2	VAL
16	AP	8	ARG
16	AP	27	LYS
16	AP	28	ARG
16	AP	39	TYR
16	AP	43	LYS
16	AP	45	THR
16	AP	55	ARG
16	AP	67	THR
16	AP	69	THR
16	AP	82	GLN
17	AQ	11	VAL
17	AQ	14	LYS
17	AQ	26	GLN
17	AQ	38	ARG
17	AQ	52	LYS
17	AQ	57	VAL
17	AQ	63	ARG
17	AQ	89	LEU
18	AR	31	LEU
18	AR	47	THR
18	AR	53	ARG
18	AR	59	SER
18	AR	79	LEU
18	AR	88	LYS
19	AS	5	LEU
19	AS	6	LYS
19	AS	7	LYS
19	AS	22	LEU
19	AS	30	LEU
19	AS	37	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	AS	44	MET
19	AS	49	ILE
19	AS	79	THR
20	AT	13	LEU
20	AT	20	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	36	LEU
20	AT	41	ILE
20	AT	51	GLU
20	AT	56	MET
20	AT	84	LEU
20	AT	93	GLU
20	AT	104	LEU
22	B0	10	THR
22	B0	12	ASN
22	B0	14	ARG
22	B0	31	VAL
22	B0	35	ASN
22	B0	36	ILE
22	B0	41	ARG
22	B0	46	LYS
22	B0	53	MET
22	B0	64	ASP
22	B0	70	GLN
22	B0	72	ARG
22	B0	84	LEU
23	B1	8	SER
23	B1	13	ILE
23	B1	14	VAL
23	B1	20	ARG
23	B1	23	LYS
23	B1	26	ARG
23	B1	33	LYS
23	B1	34	THR
23	B1	37	ILE
23	B1	46	LEU
23	B1	47	GLN
23	B1	48	LYS
23	B1	53	VAL
23	B1	56	GLN
23	B1	57	GLU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	B1	59	THR
23	B1	69	LYS
23	B1	72	GLU
23	B1	74	VAL
23	B1	75	GLU
23	B1	90	ILE
23	B1	94	LEU
24	B2	12	GLU
24	B2	14	ARG
24	B2	22	GLU
24	B2	24	LEU
24	B2	26	ARG
24	B2	30	ARG
24	B2	32	LEU
24	B2	33	MET
24	B2	36	ARG
24	B2	44	LEU
24	B2	46	GLN
24	B2	47	ASN
24	B2	49	LYS
24	B2	50	ILE
24	B2	51	ARG
24	B2	56	GLN
24	B2	57	ILE
24	B2	59	ARG
25	B3	6	VAL
25	B3	8	LEU
25	B3	10	LYS
25	B3	23	LEU
25	B3	24	LYS
25	B3	31	LEU
25	B3	40	THR
25	B3	52	HIS
25	B3	54	VAL
25	B3	55	ARG
27	B5	4	HIS
27	B5	6	VAL
27	B5	11	THR
27	B5	25	LEU
27	B5	26	THR
27	B5	29	THR
27	B5	31	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	B5	49	CYS
27	B5	51	TYR
27	B5	55	ARG
27	B5	56	LYS
27	B5	58	LEU
28	B6	9	LEU
28	B6	10	LEU
28	B6	11	LEU
28	B6	12	GLU
28	B6	18	ARG
28	B6	19	ARG
28	B6	28	ARG
28	B6	31	PRO
28	B6	33	LYS
28	B6	37	ARG
28	B6	42	TRP
28	B6	43	CYS
28	B6	44	ARG
28	B6	46	HIS
28	B6	48	VAL
28	B6	51	GLU
29	B7	1	MET
29	B7	8	ASN
29	B7	15	THR
29	B7	24	THR
29	B7	28	ARG
29	B7	29	LYS
29	B7	32	LYS
29	B7	43	THR
29	B7	48	LYS
30	B8	4	MET
30	B8	8	LYS
30	B8	12	LYS
30	B8	15	LYS
30	B8	16	ILE
30	B8	21	LYS
30	B8	23	VAL
30	B8	32	LEU
30	B8	39	LYS
30	B8	40	GLU
30	B8	41	ILE
30	B8	44	LYS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
30	B8	46	ARG
30	B8	47	LYS
30	B8	48	PHE
30	B8	49	VAL
30	B8	62	LEU
33	BD	3	VAL
33	BD	5	LYS
33	BD	6	PHE
33	BD	10	THR
33	BD	14	ARG
33	BD	15	PHE
33	BD	17	THR
33	BD	18	VAL
33	BD	24	ILE
33	BD	26	LYS
33	BD	28	GLU
33	BD	31	LYS
33	BD	43	ARG
33	BD	44	ASN
33	BD	46	GLN
33	BD	48	ARG
33	BD	61	LEU
33	BD	64	ILE
33	BD	65	ILE
33	BD	68	LYS
33	BD	69	ARG
33	BD	73	VAL
33	BD	87	ASN
33	BD	89	SER
33	BD	94	LEU
33	BD	95	LEU
33	BD	103	ARG
33	BD	106	ILE
33	BD	113	VAL
33	BD	116	GLN
33	BD	117	VAL
33	BD	141	VAL
33	BD	142	VAL
33	BD	150	LYS
33	BD	161	THR
33	BD	162	SER
33	BD	165	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	BD	166	GLN
33	BD	173	VAL
33	BD	182	LEU
33	BD	192	THR
33	BD	193	VAL
33	BD	198	ASN
33	BD	202	LYS
33	BD	206	LEU
33	BD	211	ARG
33	BD	212	SER
33	BD	221	VAL
33	BD	229	VAL
33	BD	242	ARG
33	BD	255	LYS
33	BD	257	LEU
33	BD	271	ILE
34	BE	7	VAL
34	BE	19	ARG
34	BE	21	VAL
34	BE	24	THR
34	BE	31	CYS
34	BE	33	VAL
34	BE	34	VAL
34	BE	37	ARG
34	BE	45	THR
34	BE	47	VAL
34	BE	60	ASN
34	BE	67	PHE
34	BE	69	LYS
34	BE	76	ARG
34	BE	79	ARG
34	BE	82	ARG
34	BE	89	ASP
34	BE	93	VAL
34	BE	107	THR
34	BE	111	ARG
34	BE	117	MET
34	BE	119	ARG
34	BE	128	SER
34	BE	133	LYS
34	BE	134	ILE
34	BE	144	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BE	154	LYS
34	BE	160	TYR
34	BE	163	GLU
34	BE	168	MET
34	BE	169	ASN
34	BE	171	GLU
34	BE	175	VAL
34	BE	180	ASN
34	BE	185	LYS
34	BE	197	ILE
34	BE	202	LYS
34	BE	203	LYS
35	BF	15	SER
35	BF	20	LEU
35	BF	23	ASP
35	BF	28	ILE
35	BF	33	LEU
35	BF	37	VAL
35	BF	38	ARG
35	BF	40	GLN
35	BF	41	LEU
35	BF	46	ARG
35	BF	53	THR
35	BF	56	GLU
35	BF	67	GLN
35	BF	68	LYS
35	BF	74	ARG
35	BF	78	ILE
35	BF	82	ILE
35	BF	83	PHE
35	BF	84	VAL
35	BF	88	VAL
35	BF	106	ARG
35	BF	110	LEU
35	BF	112	MET
35	BF	117	ARG
35	BF	160	ASN
35	BF	162	LEU
35	BF	164	ARG
35	BF	165	ARG
35	BF	183	VAL
35	BF	186	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BF	192	LEU
35	BF	196	LEU
35	BF	204	ASN
35	BF	205	ARG
35	BF	206	ILE
36	BG	16	ARG
36	BG	22	ARG
36	BG	29	TRP
36	BG	33	ARG
36	BG	34	LEU
36	BG	35	GLU
36	BG	39	ILE
36	BG	45	GLU
36	BG	49	ASP
36	BG	60	LEU
36	BG	62	LEU
36	BG	66	GLN
36	BG	67	LYS
36	BG	78	SER
36	BG	83	ARG
36	BG	101	ILE
36	BG	102	PHE
36	BG	115	ARG
36	BG	123	ASN
36	BG	126	ASP
36	BG	140	ILE
36	BG	143	GLU
36	BG	147	ASP
36	BG	155	MET
36	BG	157	ILE
36	BG	159	VAL
36	BG	161	THR
36	BG	166	ASP
36	BG	176	LEU
37	BH	30	LYS
37	BH	34	GLU
37	BH	46	GLU
37	BH	59	ARG
37	BH	71	LEU
37	BH	86	GLU
37	BH	89	ILE
37	BH	95	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BH	98	LEU
37	BH	103	LEU
37	BH	104	GLU
37	BH	105	LEU
37	BH	134	SER
37	BH	137	ASP
37	BH	140	LYS
37	BH	141	VAL
37	BH	143	GLN
37	BH	149	ARG
37	BH	153	LYS
37	BH	157	TYR
37	BH	158	HIS
37	BH	159	GLU
37	BH	162	ILE
37	BH	163	TYR
37	BH	164	TYR
37	BH	169	VAL
37	BH	170	ARG
38	BI	1	MET
38	BI	4	ILE
38	BI	12	LEU
38	BI	15	VAL
38	BI	20	ASP
38	BI	38	LEU
38	BI	40	THR
38	BI	43	ASN
38	BI	48	GLU
38	BI	70	GLU
38	BI	71	ILE
38	BI	72	LEU
38	BI	88	ILE
38	BI	93	THR
38	BI	97	ILE
38	BI	107	VAL
38	BI	109	ILE
38	BI	114	LEU
38	BI	133	HIS
38	BI	136	VAL
38	BI	138	ILE
38	BI	142	VAL
38	BI	144	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	BN	2	LYS
39	BN	4	TYR
39	BN	8	GLN
39	BN	9	VAL
39	BN	10	GLU
39	BN	14	VAL
39	BN	16	ILE
39	BN	17	ASP
39	BN	19	GLU
39	BN	25	ARG
39	BN	33	LEU
39	BN	34	LEU
39	BN	35	ARG
39	BN	42	TRP
39	BN	43	THR
39	BN	48	MET
39	BN	55	VAL
39	BN	56	ASN
39	BN	60	ILE
39	BN	62	VAL
39	BN	63	THR
39	BN	65	LYS
39	BN	67	LEU
39	BN	75	TYR
39	BN	78	TYR
39	BN	82	LEU
39	BN	83	LYS
39	BN	87	LEU
39	BN	94	HIS
39	BN	96	GLU
39	BN	99	LEU
39	BN	104	LYS
39	BN	106	MET
39	BN	112	LEU
39	BN	120	LEU
39	BN	121	LYS
39	BN	130	HIS
40	BO	22	ILE
40	BO	23	ARG
40	BO	24	VAL
40	BO	26	LYS
40	BO	35	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	BO	39	ILE
40	BO	47	ILE
40	BO	49	ARG
40	BO	65	THR
40	BO	77	ILE
40	BO	78	ARG
40	BO	80	ASP
40	BO	82	ASN
40	BO	98	VAL
40	BO	108	GLU
40	BO	112	MET
40	BO	114	ILE
40	BO	117	LEU
41	BP	9	ASN
41	BP	13	ASN
41	BP	16	ARG
41	BP	18	ARG
41	BP	19	VAL
41	BP	21	ARG
41	BP	29	LYS
41	BP	32	THR
41	BP	33	ARG
41	BP	39	LYS
41	BP	40	SER
41	BP	45	LEU
41	BP	47	ASP
41	BP	50	ARG
41	BP	51	PHE
41	BP	52	GLU
41	BP	57	THR
41	BP	59	LEU
41	BP	61	ARG
41	BP	62	LEU
41	BP	64	LYS
41	BP	65	ARG
41	BP	75	ILE
41	BP	77	ARG
41	BP	81	GLN
41	BP	85	LEU
41	BP	90	ARG
41	BP	95	VAL
41	BP	98	GLU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BP	100	LEU
41	BP	101	VAL
41	BP	105	LEU
41	BP	111	ARG
41	BP	112	LEU
41	BP	114	ILE
41	BP	115	LEU
41	BP	121	LYS
41	BP	123	LEU
41	BP	125	VAL
41	BP	131	SER
41	BP	135	LEU
41	BP	138	LEU
41	BP	144	GLU
41	BP	147	LEU
41	BP	148	LEU
42	BQ	9	TYR
42	BQ	13	GLN
42	BQ	17	LEU
42	BQ	22	LYS
42	BQ	27	VAL
42	BQ	38	GLU
42	BQ	43	THR
42	BQ	45	GLN
42	BQ	54	MET
42	BQ	55	VAL
42	BQ	58	PHE
42	BQ	63	LYS
42	BQ	79	LEU
42	BQ	80	GLU
42	BQ	83	MET
42	BQ	89	ASN
42	BQ	103	MET
42	BQ	106	VAL
42	BQ	109	VAL
42	BQ	110	THR
42	BQ	111	GLU
42	BQ	112	GLU
42	BQ	115	MET
42	BQ	127	ILE
42	BQ	132	VAL
43	BR	2	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	BR	5	LYS
43	BR	8	ARG
43	BR	16	HIS
43	BR	18	LEU
43	BR	28	LEU
43	BR	29	LEU
43	BR	42	LYS
43	BR	44	LEU
43	BR	56	LYS
43	BR	60	LEU
43	BR	63	ARG
43	BR	65	LEU
43	BR	71	GLN
43	BR	75	LEU
43	BR	79	LEU
43	BR	99	LYS
43	BR	100	LEU
43	BR	103	ARG
43	BR	104	ARG
43	BR	113	LEU
43	BR	114	VAL
43	BR	116	LEU
43	BR	117	VAL
44	BS	11	LYS
44	BS	12	PHE
44	BS	13	ARG
44	BS	18	ILE
44	BS	25	ARG
44	BS	35	ILE
44	BS	36	TYR
44	BS	50	SER
44	BS	54	LEU
44	BS	64	GLU
44	BS	73	LEU
44	BS	80	LEU
44	BS	89	ARG
44	BS	92	TYR
44	BS	93	LYS
44	BS	97	ARG
44	BS	101	LEU
44	BS	106	ARG
45	BT	3	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	BT	6	LEU
45	BT	10	VAL
45	BT	13	ARG
45	BT	15	VAL
45	BT	16	ARG
45	BT	17	THR
45	BT	23	ARG
45	BT	29	ARG
45	BT	32	TYR
45	BT	33	LYS
45	BT	34	VAL
45	BT	38	ASN
45	BT	41	ARG
45	BT	46	GLU
45	BT	50	ILE
45	BT	51	ARG
45	BT	53	ARG
45	BT	55	ASN
45	BT	58	ASN
45	BT	59	THR
45	BT	63	VAL
45	BT	64	ARG
45	BT	65	LYS
45	BT	73	GLU
45	BT	74	ARG
45	BT	77	PRO
45	BT	78	LEU
45	BT	82	LEU
45	BT	84	GLN
45	BT	90	GLN
45	BT	96	ARG
45	BT	98	LYS
45	BT	99	LEU
45	BT	108	ARG
45	BT	112	ARG
45	BT	114	LEU
45	BT	115	ARG
45	BT	123	GLN
45	BT	128	GLU
46	BU	8	VAL
46	BU	20	LEU
46	BU	30	LYS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	BU	36	ARG
46	BU	44	ASN
46	BU	55	ARG
46	BU	56	ASP
46	BU	64	ARG
46	BU	78	THR
46	BU	80	ILE
46	BU	88	ILE
46	BU	89	GLU
46	BU	92	ARG
46	BU	93	LYS
46	BU	95	LEU
46	BU	97	ASP
46	BU	102	GLU
46	BU	112	ARG
47	BV	2	PHE
47	BV	5	VAL
47	BV	11	GLN
47	BV	13	ARG
47	BV	15	GLU
47	BV	18	LEU
47	BV	19	LYS
47	BV	21	ARG
47	BV	23	GLU
47	BV	32	THR
47	BV	34	GLU
47	BV	37	VAL
47	BV	38	LEU
47	BV	40	LEU
47	BV	60	GLU
47	BV	62	LEU
47	BV	64	HIS
47	BV	66	ARG
47	BV	71	LEU
47	BV	78	LYS
47	BV	80	GLN
47	BV	82	ARG
47	BV	83	ARG
47	BV	88	ARG
47	BV	89	GLN
47	BV	98	GLU
48	BW	1	MET

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	BW	11	ARG
48	BW	14	PRO
48	BW	15	ARG
48	BW	16	LYS
48	BW	17	VAL
48	BW	27	LYS
48	BW	33	ARG
48	BW	41	LYS
48	BW	52	GLU
48	BW	60	ASN
48	BW	69	LEU
48	BW	70	TYR
48	BW	75	TYR
48	BW	76	VAL
48	BW	82	LEU
48	BW	85	VAL
48	BW	86	LEU
48	BW	88	ARG
48	BW	96	ILE
48	BW	97	LYS
48	BW	101	SER
48	BW	106	ILE
48	BW	107	LEU
49	BX	15	GLU
49	BX	21	PHE
49	BX	27	THR
49	BX	30	VAL
49	BX	33	LYS
49	BX	35	THR
49	BX	36	LYS
49	BX	37	THR
49	BX	38	GLU
49	BX	39	ILE
49	BX	49	VAL
49	BX	57	LEU
49	BX	60	ARG
49	BX	65	ARG
49	BX	66	LEU
49	BX	70	LEU
49	BX	76	ARG
49	BX	78	LYS
49	BX	82	GLN

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	BY	2	ARG
50	BY	7	VAL
50	BY	8	LYS
50	BY	14	LEU
50	BY	23	ARG
50	BY	28	LYS
50	BY	31	LEU
50	BY	47	LYS
50	BY	49	VAL
50	BY	62	GLU
50	BY	75	ILE
50	BY	76	CYS
50	BY	90	LEU
50	BY	94	LYS
50	BY	96	ILE
50	BY	97	ARG
50	BY	99	CYS
51	BZ	5	LEU
51	BZ	6	LYS
51	BZ	9	TYR
51	BZ	19	ARG
51	BZ	27	VAL
51	BZ	37	VAL
51	BZ	42	VAL
51	BZ	73	GLN
51	BZ	79	ARG
51	BZ	81	ARG
51	BZ	86	VAL
51	BZ	87	ASP
51	BZ	96	VAL
51	BZ	97	GLU
51	BZ	121	HIS
51	BZ	140	ASP
51	BZ	148	ASP
51	BZ	150	LEU
51	BZ	151	HIS
51	BZ	157	LEU
51	BZ	162	GLU
51	BZ	166	SER
51	BZ	169	GLU
2	CB	9	GLU
2	CB	10	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	CB	12	GLU
2	CB	15	VAL
2	CB	22	LYS
2	CB	36	ARG
2	CB	42	ILE
2	CB	79	ASP
2	CB	130	ARG
2	CB	137	ARG
2	CB	145	LEU
2	CB	163	PHE
2	CB	178	ARG
2	CB	196	LEU
2	CB	198	ASP
2	CB	205	ASP
2	CB	206	ASP
2	CB	215	LEU
2	CB	221	LEU
3	CC	5	ILE
3	CC	12	LEU
3	CC	27	LYS
3	CC	77	ILE
3	CC	104	GLN
3	CC	156	ARG
4	CD	3	ARG
4	CD	8	VAL
4	CD	11	LEU
4	CD	17	VAL
4	CD	19	LEU
4	CD	27	TYR
4	CD	33	MET
4	CD	38	TYR
4	CD	49	ARG
4	CD	62	GLN
4	CD	79	PHE
4	CD	96	LEU
4	CD	98	GLU
4	CD	122	ARG
4	CD	127	THR
4	CD	131	ARG
4	CD	132	ARG
4	CD	135	LEU
4	CD	138	TYR

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	CD	154	ASN
4	CD	158	ILE
4	CD	170	VAL
4	CD	200	GLU
4	CD	209	ARG
5	CE	10	MET
5	CE	12	LEU
5	CE	16	THR
5	CE	20	GLN
5	CE	26	PHE
5	CE	31	LEU
5	CE	41	VAL
5	CE	45	PHE
5	CE	73	ASN
5	CE	76	ILE
5	CE	79	GLU
5	CE	91	LEU
5	CE	101	ILE
5	CE	107	ARG
6	CF	19	LEU
6	CF	21	LEU
6	CF	46	ARG
6	CF	55	ASP
6	CF	59	TYR
6	CF	63	TYR
6	CF	80	ARG
6	CF	94	GLN
6	CF	97	PHE
6	CF	98	LEU
7	CG	36	LYS
7	CG	54	THR
7	CG	79	ARG
7	CG	92	SER
7	CG	118	VAL
7	CG	151	TYR
8	CH	1	MET
8	CH	10	LEU
8	CH	24	THR
8	CH	26	VAL
8	CH	51	VAL
8	CH	52	ASP
8	CH	91	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	CH	92	ARG
8	CH	95	VAL
8	CH	99	GLU
8	CH	102	ARG
8	CH	109	ILE
8	CH	114	THR
8	CH	133	LEU
9	CI	3	GLN
9	CI	10	ARG
9	CI	95	LYS
9	CI	99	LEU
9	CI	105	ASP
9	CI	113	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	125	TYR
9	CI	128	ARG
10	CJ	12	ASP
10	CJ	22	LYS
10	CJ	29	ARG
10	CJ	45	ARG
10	CJ	47	PHE
10	CJ	50	ILE
10	CJ	62	HIS
10	CJ	74	ILE
10	CJ	80	LYS
10	CJ	84	GLN
10	CJ	92	THR
10	CJ	96	ILE
11	CK	38	ASN
11	CK	48	ILE
11	CK	63	LEU
11	CK	84	VAL
11	CK	92	GLU
11	CK	107	SER
11	CK	127	LYS
12	CL	20	LYS
12	CL	41	ARG
12	CL	42	THR
12	CL	55	VAL
12	CL	70	ILE
12	CL	75	HIS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	CL	85	ILE
12	CL	89	ARG
12	CL	92	ASP
12	CL	102	ARG
13	CM	14	ARG
13	CM	64	TRP
13	CM	66	LEU
13	CM	70	LEU
13	CM	82	MET
13	CM	93	ARG
13	CM	106	ASN
13	CM	108	ARG
14	CN	16	PHE
14	CN	18	VAL
14	CN	44	LEU
15	CO	3	ILE
15	CO	26	GLU
15	CO	39	LEU
15	CO	42	HIS
15	CO	64	ARG
15	CO	65	ARG
15	CO	66	LEU
15	CO	82	ILE
16	CP	2	VAL
16	CP	8	ARG
16	CP	27	LYS
16	CP	28	ARG
16	CP	39	TYR
16	CP	43	LYS
16	CP	45	THR
16	CP	55	ARG
16	CP	67	THR
16	CP	69	THR
16	CP	82	GLN
17	CQ	11	VAL
17	CQ	14	LYS
17	CQ	26	GLN
17	CQ	38	ARG
17	CQ	52	LYS
17	CQ	57	VAL
17	CQ	63	ARG
17	CQ	89	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
18	CR	31	LEU
18	CR	47	THR
18	CR	53	ARG
18	CR	59	SER
18	CR	79	LEU
18	CR	88	LYS
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	22	LEU
19	CS	30	LEU
19	CS	37	ARG
19	CS	44	MET
19	CS	49	ILE
19	CS	79	THR
20	CT	9	ASN
20	CT	13	LEU
20	CT	20	LEU
20	CT	24	LEU
20	CT	26	ASN
20	CT	36	LEU
20	CT	41	ILE
20	CT	51	GLU
20	CT	56	MET
20	CT	84	LEU
20	CT	93	GLU
20	CT	104	LEU
22	D0	10	THR
22	D0	12	ASN
22	D0	14	ARG
22	D0	31	VAL
22	D0	35	ASN
22	D0	36	ILE
22	D0	41	ARG
22	D0	46	LYS
22	D0	55	ARG
22	D0	64	ASP
22	D0	70	GLN
22	D0	72	ARG
22	D0	84	LEU
23	D1	13	ILE
23	D1	14	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	D1	23	LYS
23	D1	26	ARG
23	D1	33	LYS
23	D1	34	THR
23	D1	37	ILE
23	D1	46	LEU
23	D1	47	GLN
23	D1	48	LYS
23	D1	53	VAL
23	D1	56	GLN
23	D1	57	GLU
23	D1	59	THR
23	D1	69	LYS
23	D1	72	GLU
23	D1	74	VAL
23	D1	75	GLU
23	D1	90	ILE
23	D1	94	LEU
24	D2	12	GLU
24	D2	14	ARG
24	D2	22	GLU
24	D2	24	LEU
24	D2	26	ARG
24	D2	30	ARG
24	D2	32	LEU
24	D2	33	MET
24	D2	36	ARG
24	D2	44	LEU
24	D2	46	GLN
24	D2	47	ASN
24	D2	49	LYS
24	D2	50	ILE
24	D2	51	ARG
24	D2	56	GLN
24	D2	57	ILE
24	D2	59	ARG
25	D3	8	LEU
25	D3	10	LYS
25	D3	24	LYS
25	D3	31	LEU
25	D3	40	THR
25	D3	50	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	D3	52	HIS
25	D3	54	VAL
25	D3	55	ARG
27	D5	4	HIS
27	D5	6	VAL
27	D5	11	THR
27	D5	25	LEU
27	D5	29	THR
27	D5	31	VAL
27	D5	49	CYS
27	D5	51	TYR
27	D5	56	LYS
27	D5	58	LEU
28	D6	9	LEU
28	D6	10	LEU
28	D6	11	LEU
28	D6	12	GLU
28	D6	18	ARG
28	D6	19	ARG
28	D6	28	ARG
28	D6	33	LYS
28	D6	37	ARG
28	D6	42	TRP
28	D6	43	CYS
28	D6	44	ARG
28	D6	46	HIS
28	D6	48	VAL
28	D6	51	GLU
29	D7	1	MET
29	D7	8	ASN
29	D7	15	THR
29	D7	24	THR
29	D7	28	ARG
29	D7	29	LYS
29	D7	32	LYS
29	D7	34	ARG
29	D7	43	THR
29	D7	48	LYS
30	D8	4	MET
30	D8	8	LYS
30	D8	12	LYS
30	D8	16	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
30	D8	21	LYS
30	D8	23	VAL
30	D8	32	LEU
30	D8	37	SER
30	D8	39	LYS
30	D8	40	GLU
30	D8	41	ILE
30	D8	44	LYS
30	D8	46	ARG
30	D8	47	LYS
30	D8	48	PHE
30	D8	49	VAL
30	D8	56	GLU
30	D8	62	LEU
33	DD	3	VAL
33	DD	5	LYS
33	DD	6	PHE
33	DD	10	THR
33	DD	14	ARG
33	DD	15	PHE
33	DD	17	THR
33	DD	18	VAL
33	DD	24	ILE
33	DD	26	LYS
33	DD	27	THR
33	DD	28	GLU
33	DD	31	LYS
33	DD	43	ARG
33	DD	44	ASN
33	DD	46	GLN
33	DD	48	ARG
33	DD	61	LEU
33	DD	64	ILE
33	DD	65	ILE
33	DD	68	LYS
33	DD	69	ARG
33	DD	73	VAL
33	DD	87	ASN
33	DD	89	SER
33	DD	94	LEU
33	DD	95	LEU
33	DD	103	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	DD	105	ILE
33	DD	106	ILE
33	DD	113	VAL
33	DD	116	GLN
33	DD	117	VAL
33	DD	141	VAL
33	DD	142	VAL
33	DD	150	LYS
33	DD	161	THR
33	DD	162	SER
33	DD	165	ILE
33	DD	166	GLN
33	DD	173	VAL
33	DD	182	LEU
33	DD	192	THR
33	DD	193	VAL
33	DD	198	ASN
33	DD	202	LYS
33	DD	206	LEU
33	DD	211	ARG
33	DD	212	SER
33	DD	218	ARG
33	DD	221	VAL
33	DD	229	VAL
33	DD	242	ARG
33	DD	255	LYS
33	DD	257	LEU
33	DD	271	ILE
34	DE	7	VAL
34	DE	19	ARG
34	DE	21	VAL
34	DE	24	THR
34	DE	31	CYS
34	DE	33	VAL
34	DE	34	VAL
34	DE	37	ARG
34	DE	44	TYR
34	DE	45	THR
34	DE	60	ASN
34	DE	67	PHE
34	DE	69	LYS
34	DE	76	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	DE	79	ARG
34	DE	82	ARG
34	DE	89	ASP
34	DE	93	VAL
34	DE	107	THR
34	DE	111	ARG
34	DE	117	MET
34	DE	119	ARG
34	DE	128	SER
34	DE	133	LYS
34	DE	134	ILE
34	DE	144	ARG
34	DE	154	LYS
34	DE	160	TYR
34	DE	163	GLU
34	DE	168	MET
34	DE	169	ASN
34	DE	170	LEU
34	DE	171	GLU
34	DE	175	VAL
34	DE	180	ASN
34	DE	185	LYS
34	DE	197	ILE
34	DE	202	LYS
34	DE	203	LYS
35	DF	15	SER
35	DF	20	LEU
35	DF	23	ASP
35	DF	28	ILE
35	DF	33	LEU
35	DF	37	VAL
35	DF	38	ARG
35	DF	40	GLN
35	DF	46	ARG
35	DF	53	THR
35	DF	56	GLU
35	DF	66	PRO
35	DF	67	GLN
35	DF	68	LYS
35	DF	74	ARG
35	DF	78	ILE
35	DF	82	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DF	83	PHE
35	DF	84	VAL
35	DF	88	VAL
35	DF	106	ARG
35	DF	112	MET
35	DF	117	ARG
35	DF	160	ASN
35	DF	162	LEU
35	DF	164	ARG
35	DF	165	ARG
35	DF	186	ILE
35	DF	192	LEU
35	DF	196	LEU
35	DF	204	ASN
35	DF	205	ARG
35	DF	206	ILE
36	DG	16	ARG
36	DG	22	ARG
36	DG	29	TRP
36	DG	33	ARG
36	DG	34	LEU
36	DG	35	GLU
36	DG	39	ILE
36	DG	45	GLU
36	DG	49	ASP
36	DG	60	LEU
36	DG	62	LEU
36	DG	66	GLN
36	DG	67	LYS
36	DG	78	SER
36	DG	83	ARG
36	DG	101	ILE
36	DG	102	PHE
36	DG	115	ARG
36	DG	123	ASN
36	DG	126	ASP
36	DG	140	ILE
36	DG	143	GLU
36	DG	147	ASP
36	DG	155	MET
36	DG	157	ILE
36	DG	159	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DG	161	THR
36	DG	166	ASP
36	DG	176	LEU
37	DH	30	LYS
37	DH	34	GLU
37	DH	46	GLU
37	DH	59	ARG
37	DH	71	LEU
37	DH	86	GLU
37	DH	89	ILE
37	DH	95	ARG
37	DH	98	LEU
37	DH	103	LEU
37	DH	104	GLU
37	DH	105	LEU
37	DH	134	SER
37	DH	137	ASP
37	DH	141	VAL
37	DH	143	GLN
37	DH	149	ARG
37	DH	153	LYS
37	DH	157	TYR
37	DH	158	HIS
37	DH	159	GLU
37	DH	162	ILE
37	DH	163	TYR
37	DH	169	VAL
37	DH	170	ARG
38	DI	4	ILE
38	DI	12	LEU
38	DI	15	VAL
38	DI	20	ASP
38	DI	38	LEU
38	DI	40	THR
38	DI	43	ASN
38	DI	48	GLU
38	DI	70	GLU
38	DI	71	ILE
38	DI	72	LEU
38	DI	88	ILE
38	DI	93	THR
38	DI	97	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	DI	107	VAL
38	DI	109	ILE
38	DI	114	LEU
38	DI	133	HIS
38	DI	136	VAL
38	DI	138	ILE
38	DI	142	VAL
38	DI	144	VAL
39	DN	2	LYS
39	DN	4	TYR
39	DN	8	GLN
39	DN	9	VAL
39	DN	10	GLU
39	DN	14	VAL
39	DN	16	ILE
39	DN	17	ASP
39	DN	19	GLU
39	DN	25	ARG
39	DN	33	LEU
39	DN	34	LEU
39	DN	35	ARG
39	DN	42	TRP
39	DN	43	THR
39	DN	48	MET
39	DN	55	VAL
39	DN	56	ASN
39	DN	60	ILE
39	DN	62	VAL
39	DN	63	THR
39	DN	65	LYS
39	DN	67	LEU
39	DN	75	TYR
39	DN	78	TYR
39	DN	82	LEU
39	DN	83	LYS
39	DN	87	LEU
39	DN	94	HIS
39	DN	96	GLU
39	DN	99	LEU
39	DN	106	MET
39	DN	112	LEU
39	DN	120	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	DN	121	LYS
39	DN	130	HIS
40	DO	22	ILE
40	DO	23	ARG
40	DO	24	VAL
40	DO	26	LYS
40	DO	28	SER
40	DO	32	TYR
40	DO	35	VAL
40	DO	39	ILE
40	DO	47	ILE
40	DO	49	ARG
40	DO	65	THR
40	DO	77	ILE
40	DO	78	ARG
40	DO	80	ASP
40	DO	82	ASN
40	DO	98	VAL
40	DO	108	GLU
40	DO	112	MET
40	DO	114	ILE
40	DO	117	LEU
41	DP	9	ASN
41	DP	13	ASN
41	DP	16	ARG
41	DP	18	ARG
41	DP	19	VAL
41	DP	21	ARG
41	DP	29	LYS
41	DP	32	THR
41	DP	33	ARG
41	DP	39	LYS
41	DP	40	SER
41	DP	45	LEU
41	DP	47	ASP
41	DP	50	ARG
41	DP	51	PHE
41	DP	52	GLU
41	DP	57	THR
41	DP	59	LEU
41	DP	61	ARG
41	DP	62	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	DP	64	LYS
41	DP	65	ARG
41	DP	67	MET
41	DP	75	ILE
41	DP	77	ARG
41	DP	81	GLN
41	DP	85	LEU
41	DP	90	ARG
41	DP	95	VAL
41	DP	98	GLU
41	DP	100	LEU
41	DP	101	VAL
41	DP	105	LEU
41	DP	111	ARG
41	DP	112	LEU
41	DP	114	ILE
41	DP	115	LEU
41	DP	121	LYS
41	DP	125	VAL
41	DP	131	SER
41	DP	135	LEU
41	DP	138	LEU
41	DP	144	GLU
41	DP	147	LEU
41	DP	148	LEU
42	DQ	9	TYR
42	DQ	13	GLN
42	DQ	17	LEU
42	DQ	22	LYS
42	DQ	27	VAL
42	DQ	38	GLU
42	DQ	43	THR
42	DQ	45	GLN
42	DQ	54	MET
42	DQ	55	VAL
42	DQ	58	PHE
42	DQ	63	LYS
42	DQ	79	LEU
42	DQ	80	GLU
42	DQ	83	MET
42	DQ	89	ASN
42	DQ	103	MET

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	DQ	106	VAL
42	DQ	109	VAL
42	DQ	110	THR
42	DQ	111	GLU
42	DQ	115	MET
42	DQ	127	ILE
42	DQ	132	VAL
43	DR	2	ARG
43	DR	5	LYS
43	DR	8	ARG
43	DR	16	HIS
43	DR	18	LEU
43	DR	28	LEU
43	DR	29	LEU
43	DR	42	LYS
43	DR	44	LEU
43	DR	56	LYS
43	DR	60	LEU
43	DR	63	ARG
43	DR	65	LEU
43	DR	71	GLN
43	DR	75	LEU
43	DR	79	LEU
43	DR	99	LYS
43	DR	100	LEU
43	DR	103	ARG
43	DR	104	ARG
43	DR	113	LEU
43	DR	114	VAL
43	DR	116	LEU
43	DR	117	VAL
44	DS	11	LYS
44	DS	12	PHE
44	DS	13	ARG
44	DS	18	ILE
44	DS	25	ARG
44	DS	35	ILE
44	DS	36	TYR
44	DS	50	SER
44	DS	54	LEU
44	DS	64	GLU
44	DS	73	LEU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	DS	80	LEU
44	DS	89	ARG
44	DS	92	TYR
44	DS	93	LYS
44	DS	97	ARG
44	DS	101	LEU
44	DS	106	ARG
45	DT	3	ARG
45	DT	6	LEU
45	DT	10	VAL
45	DT	13	ARG
45	DT	15	VAL
45	DT	16	ARG
45	DT	17	THR
45	DT	23	ARG
45	DT	29	ARG
45	DT	32	TYR
45	DT	33	LYS
45	DT	34	VAL
45	DT	38	ASN
45	DT	41	ARG
45	DT	50	ILE
45	DT	51	ARG
45	DT	53	ARG
45	DT	55	ASN
45	DT	58	ASN
45	DT	59	THR
45	DT	63	VAL
45	DT	64	ARG
45	DT	65	LYS
45	DT	73	GLU
45	DT	74	ARG
45	DT	78	LEU
45	DT	82	LEU
45	DT	84	GLN
45	DT	87	ASP
45	DT	90	GLN
45	DT	96	ARG
45	DT	98	LYS
45	DT	99	LEU
45	DT	108	ARG
45	DT	112	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	DT	114	LEU
45	DT	115	ARG
45	DT	123	GLN
45	DT	128	GLU
46	DU	8	VAL
46	DU	20	LEU
46	DU	30	LYS
46	DU	31	SER
46	DU	36	ARG
46	DU	44	ASN
46	DU	55	ARG
46	DU	56	ASP
46	DU	64	ARG
46	DU	76	TYR
46	DU	78	THR
46	DU	80	ILE
46	DU	88	ILE
46	DU	89	GLU
46	DU	92	ARG
46	DU	93	LYS
46	DU	95	LEU
46	DU	97	ASP
46	DU	102	GLU
46	DU	112	ARG
46	DU	114	LYS
47	DV	2	PHE
47	DV	5	VAL
47	DV	11	GLN
47	DV	13	ARG
47	DV	15	GLU
47	DV	18	LEU
47	DV	19	LYS
47	DV	21	ARG
47	DV	23	GLU
47	DV	32	THR
47	DV	34	GLU
47	DV	37	VAL
47	DV	40	LEU
47	DV	60	GLU
47	DV	62	LEU
47	DV	64	HIS
47	DV	66	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	DV	71	LEU
47	DV	78	LYS
47	DV	80	GLN
47	DV	82	ARG
47	DV	83	ARG
47	DV	88	ARG
47	DV	89	GLN
47	DV	98	GLU
48	DW	1	MET
48	DW	11	ARG
48	DW	15	ARG
48	DW	16	LYS
48	DW	27	LYS
48	DW	30	GLU
48	DW	33	ARG
48	DW	41	LYS
48	DW	51	LEU
48	DW	52	GLU
48	DW	60	ASN
48	DW	69	LEU
48	DW	70	TYR
48	DW	75	TYR
48	DW	76	VAL
48	DW	85	VAL
48	DW	86	LEU
48	DW	88	ARG
48	DW	96	ILE
48	DW	97	LYS
48	DW	106	ILE
48	DW	107	LEU
49	DX	3	THR
49	DX	15	GLU
49	DX	21	PHE
49	DX	27	THR
49	DX	30	VAL
49	DX	33	LYS
49	DX	35	THR
49	DX	36	LYS
49	DX	37	THR
49	DX	38	GLU
49	DX	39	ILE
49	DX	49	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	DX	57	LEU
49	DX	60	ARG
49	DX	65	ARG
49	DX	66	LEU
49	DX	76	ARG
49	DX	78	LYS
49	DX	81	VAL
49	DX	82	GLN
50	DY	2	ARG
50	DY	7	VAL
50	DY	8	LYS
50	DY	14	LEU
50	DY	23	ARG
50	DY	28	LYS
50	DY	31	LEU
50	DY	47	LYS
50	DY	49	VAL
50	DY	57	GLN
50	DY	62	GLU
50	DY	75	ILE
50	DY	76	CYS
50	DY	90	LEU
50	DY	94	LYS
50	DY	96	ILE
50	DY	97	ARG
50	DY	99	CYS
51	DZ	5	LEU
51	DZ	6	LYS
51	DZ	9	TYR
51	DZ	19	ARG
51	DZ	27	VAL
51	DZ	37	VAL
51	DZ	42	VAL
51	DZ	73	GLN
51	DZ	79	ARG
51	DZ	81	ARG
51	DZ	86	VAL
51	DZ	87	ASP
51	DZ	96	VAL
51	DZ	97	GLU
51	DZ	98	MET
51	DZ	121	HIS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	DZ	140	ASP
51	DZ	148	ASP
51	DZ	150	LEU
51	DZ	151	HIS
51	DZ	157	LEU
51	DZ	162	GLU
51	DZ	166	SER
51	DZ	169	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (256) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	37	ASN
2	AB	40	HIS
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	69	HIS
3	AC	104	GLN
3	AC	170	GLN
4	AD	45	GLN
4	AD	62	GLN
4	AD	74	GLN
4	AD	129	ASN
4	AD	161	ASN
5	AE	20	GLN
5	AE	72	GLN
5	AE	78	HIS
6	AF	13	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	94	GLN
6	AF	100	ASN
7	AG	13	GLN
7	AG	37	ASN
7	AG	84	ASN
7	AG	97	GLN
7	AG	106	GLN
9	AI	73	GLN
9	AI	124	GLN
10	AJ	78	ASN
11	AK	38	ASN

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	AL	9	GLN
12	AL	49	ASN
13	AM	77	ASN
15	AO	46	HIS
16	AP	76	GLN
16	AP	82	GLN
17	AQ	16	GLN
19	AS	57	HIS
20	AT	16	HIS
20	AT	26	ASN
20	AT	75	ASN
22	B0	35	ASN
22	B0	40	GLN
23	B1	19	GLN
23	B1	45	ASN
23	B1	66	HIS
24	B2	47	ASN
24	B2	56	GLN
25	B3	19	GLN
25	B3	46	ASN
25	B3	52	HIS
27	B5	4	HIS
27	B5	22	HIS
27	B5	43	HIS
28	B6	20	ASN
28	B6	26	ASN
28	B6	46	HIS
29	B7	8	ASN
30	B8	33	ASN
30	B8	35	GLN
33	BD	58	HIS
33	BD	96	HIS
33	BD	126	GLN
33	BD	143	HIS
33	BD	166	GLN
33	BD	186	HIS
33	BD	198	ASN
33	BD	220	HIS
34	BE	35	GLN
34	BE	48	GLN
34	BE	54	GLN
34	BE	85	ASN

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BE	129	HIS
34	BE	132	HIS
34	BE	159	HIS
34	BE	169	ASN
34	BE	192	ASN
35	BF	69	HIS
35	BF	75	HIS
35	BF	160	ASN
35	BF	169	ASN
36	BG	40	ASN
37	BH	147	ASN
38	BI	28	ASN
38	BI	43	ASN
38	BI	133	HIS
38	BI	139	GLN
39	BN	56	ASN
39	BN	94	HIS
39	BN	131	GLN
40	BO	3	GLN
40	BO	5	GLN
40	BO	13	ASN
41	BP	13	ASN
41	BP	81	GLN
41	BP	128	HIS
42	BQ	12	GLN
42	BQ	13	GLN
42	BQ	45	GLN
42	BQ	123	HIS
42	BQ	141	GLN
43	BR	13	HIS
43	BR	16	HIS
43	BR	23	ASN
43	BR	24	GLN
43	BR	31	HIS
43	BR	53	HIS
43	BR	61	HIS
43	BR	71	GLN
44	BS	16	ASN
44	BS	34	HIS
44	BS	84	GLN
44	BS	95	HIS
45	BT	38	ASN

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	BT	58	ASN
45	BT	90	GLN
46	BU	14	HIS
46	BU	49	HIS
47	BV	11	GLN
48	BW	34	ASN
48	BW	57	ASN
48	BW	61	ASN
48	BW	62	HIS
48	BW	102	HIS
48	BW	111	HIS
49	BX	31	HIS
49	BX	55	ASN
51	BZ	54	HIS
51	BZ	55	HIS
2	CB	40	HIS
2	CB	146	GLN
2	CB	204	ASN
3	CC	28	GLN
3	CC	69	HIS
3	CC	104	GLN
3	CC	170	GLN
4	CD	45	GLN
4	CD	62	GLN
4	CD	74	GLN
4	CD	129	ASN
4	CD	161	ASN
5	CE	20	GLN
5	CE	72	GLN
5	CE	78	HIS
6	CF	13	ASN
6	CF	18	GLN
6	CF	27	GLN
6	CF	84	ASN
6	CF	94	GLN
6	CF	100	ASN
7	CG	13	GLN
7	CG	37	ASN
7	CG	84	ASN
7	CG	97	GLN
7	CG	106	GLN
9	CI	73	GLN

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	CI	124	GLN
10	CJ	78	ASN
11	CK	38	ASN
11	CK	116	HIS
12	CL	8	ASN
12	CL	9	GLN
12	CL	49	ASN
13	CM	77	ASN
15	CO	42	HIS
15	CO	46	HIS
16	CP	76	GLN
16	CP	82	GLN
17	CQ	16	GLN
19	CS	57	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	75	ASN
22	D0	35	ASN
22	D0	40	GLN
23	D1	19	GLN
23	D1	66	HIS
24	D2	47	ASN
24	D2	56	GLN
25	D3	19	GLN
25	D3	46	ASN
25	D3	52	HIS
27	D5	4	HIS
27	D5	22	HIS
27	D5	23	HIS
27	D5	43	HIS
28	D6	20	ASN
28	D6	26	ASN
28	D6	46	HIS
29	D7	8	ASN
30	D8	33	ASN
30	D8	35	GLN
33	DD	58	HIS
33	DD	96	HIS
33	DD	126	GLN
33	DD	143	HIS
33	DD	166	GLN
33	DD	186	HIS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	DD	198	ASN
34	DE	35	GLN
34	DE	48	GLN
34	DE	54	GLN
34	DE	85	ASN
34	DE	129	HIS
34	DE	132	HIS
34	DE	159	HIS
34	DE	169	ASN
34	DE	192	ASN
35	DF	69	HIS
35	DF	75	HIS
35	DF	160	ASN
35	DF	169	ASN
36	DG	40	ASN
37	DH	147	ASN
38	DI	28	ASN
38	DI	43	ASN
38	DI	133	HIS
38	DI	139	GLN
39	DN	56	ASN
39	DN	94	HIS
39	DN	131	GLN
40	DO	3	GLN
40	DO	5	GLN
40	DO	13	ASN
41	DP	13	ASN
41	DP	81	GLN
41	DP	128	HIS
42	DQ	12	GLN
42	DQ	13	GLN
42	DQ	45	GLN
42	DQ	123	HIS
42	DQ	141	GLN
43	DR	13	HIS
43	DR	16	HIS
43	DR	23	ASN
43	DR	24	GLN
43	DR	31	HIS
43	DR	53	HIS
43	DR	61	HIS
43	DR	71	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
44	DS	34	HIS
44	DS	84	GLN
45	DT	38	ASN
45	DT	58	ASN
45	DT	90	GLN
46	DU	49	HIS
47	DV	11	GLN
48	DW	34	ASN
48	DW	57	ASN
48	DW	61	ASN
48	DW	102	HIS
48	DW	111	HIS
49	DX	31	HIS
49	DX	55	ASN
51	DZ	54	HIS
51	DZ	55	HIS

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	307 (20%)	30 (1%)
1	CA	1503/1522 (98%)	307 (20%)	30 (1%)
31	BA	2723/2787 (97%)	822 (30%)	77 (2%)
31	DA	2723/2787 (97%)	827 (30%)	75 (2%)
32	BB	118/122 (96%)	42 (35%)	0
32	DB	118/122 (96%)	42 (35%)	0
All	All	8688/8862 (98%)	2347 (27%)	212 (2%)

All (2347) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
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	50	A
1	AA	51	A
1	AA	54	C
1	AA	59	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	61	G
1	AA	70	G
1	AA	80	G
1	AA	81	U
1	AA	82	U
1	AA	84	U
1	AA	90	U
1	AA	91	C
1	AA	97	G
1	AA	101	A
1	AA	116	A
1	AA	119	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	144	G
1	AA	148	G
1	AA	150	C
1	AA	158	G
1	AA	163	C
1	AA	164	U
1	AA	169	C
1	AA	170	U
1	AA	171	A
1	AA	172	A
1	AA	173	U
1	AA	181	G
1	AA	182	U
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	199	G
1	AA	216	G
1	AA	220	G
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	260	G
1	AA	266	G
1	AA	267	C
1	AA	281	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	283	C
1	AA	289	G
1	AA	301	G
1	AA	328	C
1	AA	330	C
1	AA	332	G
1	AA	338	A
1	AA	343	U
1	AA	344	A
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	357	G
1	AA	358	U
1	AA	365	U
1	AA	366	C
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	388	G
1	AA	389	A
1	AA	390	C
1	AA	397	A
1	AA	398	C
1	AA	406	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	424	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	436	C
1	AA	437	U
1	AA	439	A
1	AA	442	C
1	AA	452	A
1	AA	461	A
1	AA	470	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	472	A
1	AA	473	G
1	AA	483	C
1	AA	484	G
1	AA	485	G
1	AA	495	A
1	AA	496	A
1	AA	498	U
1	AA	499	A
1	AA	500	G
1	AA	505	G
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	513	C
1	AA	517	G
1	AA	518	C
1	AA	520	A
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	544	G
1	AA	547	A
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	563	A
1	AA	567	G
1	AA	572	A
1	AA	573	A
1	AA	576	G
1	AA	579	G
1	AA	587	G
1	AA	588	G
1	AA	596	C
1	AA	607	A
1	AA	614	A
1	AA	616	G
1	AA	617	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	618	C
1	AA	621	A
1	AA	624	C
1	AA	629	G
1	AA	630	G
1	AA	632	A
1	AA	633	G
1	AA	653	A
1	AA	665	A
1	AA	666	G
1	AA	687	A
1	AA	688	G
1	AA	693	G
1	AA	701	C
1	AA	702	A
1	AA	703	G
1	AA	720	C
1	AA	721	G
1	AA	723	U
1	AA	731	G
1	AA	733	A
1	AA	749	C
1	AA	753	A
1	AA	754	C
1	AA	755	G
1	AA	766	A
1	AA	772	U
1	AA	773	G
1	AA	777	A
1	AA	786	G
1	AA	792	A
1	AA	793	U
1	AA	794	A
1	AA	800	G
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	819	A
1	AA	828	A
1	AA	833	U
1	AA	839	U
1	AA	840	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	841	U
1	AA	848	C
1	AA	859	A
1	AA	872	A
1	AA	876	G
1	AA	884	U
1	AA	902	G
1	AA	908	A
1	AA	914	A
1	AA	916	G
1	AA	920	U
1	AA	921	U
1	AA	923	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	950	U
1	AA	961	U
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1026	G
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1081	G
1	AA	1095	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1101	A
1	AA	1103	C
1	AA	1107	C
1	AA	1117	G
1	AA	1118	C
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1134	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1152	A
1	AA	1159	U
1	AA	1160	G
1	AA	1190	G
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1227	A
1	AA	1238	A
1	AA	1241	G
1	AA	1249	C
1	AA	1255	G
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1270	C
1	AA	1273	G
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A
1	AA	1294	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1312	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1334	G
1	AA	1335	C
1	AA	1336	C
1	AA	1338	G
1	AA	1346	A
1	AA	1347	G
1	AA	1363(A)	A
1	AA	1364	U
1	AA	1370	G
1	AA	1381	U
1	AA	1387	G
1	AA	1388	C
1	AA	1397	C
1	AA	1402	C
1	AA	1419	G
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1457	G
1	AA	1487	G
1	AA	1492	A
1	AA	1494	G
1	AA	1499	A
1	AA	1500	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
31	BA	9	U
31	BA	10	G
31	BA	12	U
31	BA	15	G
31	BA	17	G
31	BA	23	G
31	BA	33	U
31	BA	34	C
31	BA	35	G
31	BA	45	C
31	BA	50	U
31	BA	51	G
31	BA	55	G
31	BA	59	U
31	BA	63	U
31	BA	69	C
31	BA	71	A
31	BA	72	U
31	BA	74	A
31	BA	75	G
31	BA	83	G
31	BA	84	A
31	BA	90	U
31	BA	92	A
31	BA	94	C
31	BA	95	G
31	BA	100	G
31	BA	102	G
31	BA	103	A
31	BA	104	U
31	BA	114	U
31	BA	118	A
31	BA	120	U
31	BA	126	A
31	BA	129	C
31	BA	131	G
31	BA	137	C
31	BA	139	G
31	BA	139(A)	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	140	G
31	BA	141	A
31	BA	142	A
31	BA	142(A)	C
31	BA	143(A)	C
31	BA	145	G
31	BA	146	G
31	BA	153	C
31	BA	154	G
31	BA	154(A)	C
31	BA	157	U
31	BA	158	U
31	BA	171	G
31	BA	173	G
31	BA	175	G
31	BA	182	A
31	BA	183	C
31	BA	188	G
31	BA	193	U
31	BA	194	G
31	BA	196	A
31	BA	197	A
31	BA	199	A
31	BA	200	U
31	BA	204	A
31	BA	205	G
31	BA	214	G
31	BA	215	G
31	BA	216	A
31	BA	221	A
31	BA	222	A
31	BA	225	A
31	BA	228	A
31	BA	229	A
31	BA	230	U
31	BA	233	A
31	BA	240	G
31	BA	248	G
31	BA	252	G
31	BA	266	G
31	BA	271(A)	A
31	BA	271(I)	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	271(K)	U
31	BA	271(L)	U
31	BA	271(M)	G
31	BA	271(N)	U
31	BA	271(O)	C
31	BA	271(P)	C
31	BA	271(R)	G
31	BA	271(T)	C
31	BA	271(W)	G
31	BA	271(Y)	U
31	BA	272	G
31	BA	272(B)	G
31	BA	272(G)	C
31	BA	272(H)	C
31	BA	272(J)	C
31	BA	274	G
31	BA	275	G
31	BA	279	C
31	BA	281	G
31	BA	286	C
31	BA	287	C
31	BA	288	C
31	BA	289	A
31	BA	306	U
31	BA	311	A
31	BA	324	A
31	BA	326	G
31	BA	327	G
31	BA	329	G
31	BA	330	A
31	BA	332	A
31	BA	343	C
31	BA	347	A
31	BA	348	G
31	BA	351	G
31	BA	352	G
31	BA	356	G
31	BA	358	U
31	BA	362	U
31	BA	363	G
31	BA	363(B)	G
31	BA	363(C)	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	363(D)	G
31	BA	363(E)	U
31	BA	363(F)	A
31	BA	370	G
31	BA	371	A
31	BA	372	G
31	BA	386	G
31	BA	388	G
31	BA	389	G
31	BA	405	U
31	BA	406	G
31	BA	411	G
31	BA	416	C
31	BA	418	G
31	BA	428	A
31	BA	442	G
31	BA	444	C
31	BA	446	G
31	BA	448	U
31	BA	449	A
31	BA	454	A
31	BA	455	C
31	BA	456	C
31	BA	457	A
31	BA	467	G
31	BA	470	A
31	BA	472	A
31	BA	473	G
31	BA	474	G
31	BA	475	U
31	BA	479	A
31	BA	480	A
31	BA	481	G
31	BA	501	A
31	BA	505	A
31	BA	508	G
31	BA	509	C
31	BA	512	G
31	BA	513	A
31	BA	518	G
31	BA	528	A
31	BA	530	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	531	C
31	BA	532	A
31	BA	533	G
31	BA	537	C
31	BA	542	C
31	BA	543	C
31	BA	547	A
31	BA	548	A
31	BA	549	G
31	BA	563	G
31	BA	571	A
31	BA	573	G
31	BA	575	A
31	BA	588	U
31	BA	602	G
31	BA	603	A
31	BA	604	G
31	BA	605	C
31	BA	607	U
31	BA	614(A)	U
31	BA	614(B)	G
31	BA	615	G
31	BA	620	G
31	BA	622	G
31	BA	623	G
31	BA	627	A
31	BA	637	A
31	BA	645	C
31	BA	646	A
31	BA	647	G
31	BA	650	C
31	BA	651	G
31	BA	652	C
31	BA	656	G
31	BA	657	U
31	BA	663	G
31	BA	668	G
31	BA	669	G
31	BA	670	A
31	BA	671	C
31	BA	676	A
31	BA	686	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	708	C
31	BA	717	G
31	BA	722	A
31	BA	726	G
31	BA	730	C
31	BA	738	G
31	BA	745	G
31	BA	746	A
31	BA	747	U
31	BA	753	C
31	BA	759	G
31	BA	764	A
31	BA	765	G
31	BA	774	A
31	BA	775	G
31	BA	776	G
31	BA	782	A
31	BA	784	A
31	BA	785	G
31	BA	787	U
31	BA	789	A
31	BA	790	C
31	BA	791	C
31	BA	792	G
31	BA	805	G
31	BA	807	U
31	BA	808	G
31	BA	812	C
31	BA	819	A
31	BA	822	U
31	BA	823	G
31	BA	826	U
31	BA	827	U
31	BA	828	U
31	BA	830	G
31	BA	831	G
31	BA	846	C
31	BA	847	U
31	BA	848	G
31	BA	856	C
31	BA	857	C
31	BA	858	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	859	G
31	BA	866	A
31	BA	867	C
31	BA	871	U
31	BA	872	A
31	BA	878	A
31	BA	883	G
31	BA	892	G
31	BA	896	A
31	BA	897	C
31	BA	898	C
31	BA	899	A
31	BA	901	A
31	BA	904	C
31	BA	905	U
31	BA	906	G
31	BA	907	U
31	BA	910	A
31	BA	914	C
31	BA	917	A
31	BA	919	G
31	BA	926	A
31	BA	932	G
31	BA	941	A
31	BA	945	A
31	BA	946	G
31	BA	952	G
31	BA	958	U
31	BA	959	A
31	BA	961	C
31	BA	974	G
31	BA	975	C
31	BA	975(A)	G
31	BA	983	A
31	BA	990	A
31	BA	991	C
31	BA	996	A
31	BA	998	C
31	BA	1004	C
31	BA	1005	C
31	BA	1006	C
31	BA	1010	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1011	G
31	BA	1012	U
31	BA	1013	C
31	BA	1015	G
31	BA	1016	G
31	BA	1020	A
31	BA	1022	G
31	BA	1023	U
31	BA	1025	G
31	BA	1026	U
31	BA	1032	A
31	BA	1033	U
31	BA	1034	G
31	BA	1041	C
31	BA	1042	G
31	BA	1044	G
31	BA	1045	A
31	BA	1047	G
31	BA	1048	A
31	BA	1050	A
31	BA	1106	A
31	BA	1107	G
31	BA	1110	G
31	BA	1111	A
31	BA	1112	G
31	BA	1113	U
31	BA	1114	G
31	BA	1115	G
31	BA	1116	C
31	BA	1126	A
31	BA	1130	U
31	BA	1135	C
31	BA	1136	G
31	BA	1142	U
31	BA	1143	A
31	BA	1147	C
31	BA	1156	A
31	BA	1159	U
31	BA	1169	G
31	BA	1170	G
31	BA	1171	G
31	BA	1174	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1175	U
31	BA	1176	G
31	BA	1177	A
31	BA	1178	C
31	BA	1179	C
31	BA	1180	C
31	BA	1189	A
31	BA	1194	A
31	BA	1195	G
31	BA	1204	A
31	BA	1205	U
31	BA	1206	G
31	BA	1210	A
31	BA	1211	U
31	BA	1213	A
31	BA	1217	C
31	BA	1218	C
31	BA	1220	A
31	BA	1221	C
31	BA	1229	G
31	BA	1236	G
31	BA	1242	A
31	BA	1244	G
31	BA	1249	U
31	BA	1251	C
31	BA	1253	A
31	BA	1254	A
31	BA	1255	U
31	BA	1256	G
31	BA	1269	A
31	BA	1271	G
31	BA	1272	A
31	BA	1273	U
31	BA	1276	A
31	BA	1281	G
31	BA	1287	A
31	BA	1300	U
31	BA	1301	A
31	BA	1302	A
31	BA	1307	A
31	BA	1308	A
31	BA	1314	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1318	C
31	BA	1319	G
31	BA	1345	C
31	BA	1347	G
31	BA	1349	A
31	BA	1352	U
31	BA	1359	A
31	BA	1360	A
31	BA	1365	A
31	BA	1366	A
31	BA	1368	G
31	BA	1379	A
31	BA	1380	G
31	BA	1384	A
31	BA	1385	G
31	BA	1386	C
31	BA	1389	G
31	BA	1390	U
31	BA	1391	U
31	BA	1392	A
31	BA	1395	A
31	BA	1397	U
31	BA	1398	C
31	BA	1404	C
31	BA	1407	C
31	BA	1411	C
31	BA	1416	G
31	BA	1417	C
31	BA	1420	U
31	BA	1421	G
31	BA	1427	A
31	BA	1428	C
31	BA	1437	C
31	BA	1444	G
31	BA	1445	A
31	BA	1445(A)	C
31	BA	1448	G
31	BA	1449	A
31	BA	1450	G
31	BA	1452	A
31	BA	1455	G
31	BA	1459	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1460	A
31	BA	1461	G
31	BA	1466	G
31	BA	1467	C
31	BA	1471	A
31	BA	1472	A
31	BA	1473	G
31	BA	1474	C
31	BA	1475	G
31	BA	1476	C
31	BA	1477	A
31	BA	1479	G
31	BA	1480	G
31	BA	1481	U
31	BA	1482	G
31	BA	1484	G
31	BA	1485	G
31	BA	1486	A
31	BA	1488	G
31	BA	1490	A
31	BA	1491	G
31	BA	1492	G
31	BA	1493	C
31	BA	1494	A
31	BA	1495	A
31	BA	1496	A
31	BA	1497	U
31	BA	1498	C
31	BA	1501	C
31	BA	1502	C
31	BA	1505	C
31	BA	1507	A
31	BA	1508	A
31	BA	1509	C
31	BA	1509(A)	A
31	BA	1512	U
31	BA	1513	C
31	BA	1515	G
31	BA	1517	G
31	BA	1519	G
31	BA	1520	G
31	BA	1528	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1528(A)	A
31	BA	1529	G
31	BA	1530	C
31	BA	1531	C
31	BA	1532	C
31	BA	1533	G
31	BA	1543	C
31	BA	1544	A
31	BA	1545	A
31	BA	1546	C
31	BA	1554	A
31	BA	1558	A
31	BA	1559	G
31	BA	1566	A
31	BA	1569	A
31	BA	1578	U
31	BA	1579	A
31	BA	1580	A
31	BA	1584	C
31	BA	1586	A
31	BA	1587	A
31	BA	1588	C
31	BA	1589	C
31	BA	1591	G
31	BA	1592	C
31	BA	1598	C
31	BA	1600	C
31	BA	1603	A
31	BA	1608	A
31	BA	1609	A
31	BA	1610	A
31	BA	1613	G
31	BA	1617	C
31	BA	1618	A
31	BA	1632	A
31	BA	1634	A
31	BA	1635	G
31	BA	1640	C
31	BA	1647	G
31	BA	1648	C
31	BA	1649	G
31	BA	1652	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1653	G
31	BA	1654	A
31	BA	1668	A
31	BA	1670	C
31	BA	1674	G
31	BA	1675	C
31	BA	1678	G
31	BA	1679	U
31	BA	1694	C
31	BA	1695	G
31	BA	1696	G
31	BA	1700	A
31	BA	1701	A
31	BA	1702	G
31	BA	1717	G
31	BA	1718	G
31	BA	1722	A
31	BA	1739	U
31	BA	1740	G
31	BA	1741	A
31	BA	1742	G
31	BA	1744	C
31	BA	1745(A)	C
31	BA	1746	G
31	BA	1748	G
31	BA	1749	A
31	BA	1756	G
31	BA	1758	G
31	BA	1763	G
31	BA	1764	G
31	BA	1773	A
31	BA	1778	U
31	BA	1781	C
31	BA	1782	C
31	BA	1791	A
31	BA	1798	U
31	BA	1799	G
31	BA	1800	C
31	BA	1801	G
31	BA	1802	A
31	BA	1816	G
31	BA	1820	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1821	A
31	BA	1828	G
31	BA	1829	A
31	BA	1835	G
31	BA	1837	C
31	BA	1838	C
31	BA	1847	A
31	BA	1858	G
31	BA	1865	G
31	BA	1866	C
31	BA	1877	A
31	BA	1878	G
31	BA	1879	C
31	BA	1881	C
31	BA	1882	C
31	BA	1884	A
31	BA	1888	G
31	BA	1889	A
31	BA	1900	A
31	BA	1905	C
31	BA	1906	G
31	BA	1913	A
31	BA	1914	C
31	BA	1916	A
31	BA	1929	G
31	BA	1930	G
31	BA	1934	C
31	BA	1935	G
31	BA	1936	A
31	BA	1937	A
31	BA	1938	A
31	BA	1946	U
31	BA	1947	C
31	BA	1955	U
31	BA	1962	C
31	BA	1963	U
31	BA	1964	G
31	BA	1967	C
31	BA	1969	A
31	BA	1970	A
31	BA	1971	A
31	BA	1972	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	1982	C
31	BA	1991	U
31	BA	1993	U
31	BA	1997	G
31	BA	2020	A
31	BA	2023	G
31	BA	2027	G
31	BA	2028	U
31	BA	2030	A
31	BA	2031	A
31	BA	2032	G
31	BA	2033	A
31	BA	2034	U
31	BA	2035	G
31	BA	2036	C
31	BA	2043	C
31	BA	2049	G
31	BA	2055	C
31	BA	2056	G
31	BA	2060	A
31	BA	2061	G
31	BA	2062	A
31	BA	2069	G
31	BA	2071	A
31	BA	2093	G
31	BA	2094	G
31	BA	2095	C
31	BA	2099	U
31	BA	2103	C
31	BA	2104	G
31	BA	2105	C
31	BA	2187	G
31	BA	2189	U
31	BA	2190	G
31	BA	2191	G
31	BA	2192	G
31	BA	2194	G
31	BA	2198	A
31	BA	2199	A
31	BA	2200	C
31	BA	2201	C
31	BA	2205	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	2207	G
31	BA	2208	A
31	BA	2218	U
31	BA	2219	G
31	BA	2225	A
31	BA	2226	C
31	BA	2227	A
31	BA	2238	G
31	BA	2239	G
31	BA	2259	G
31	BA	2263	C
31	BA	2268	A
31	BA	2273	A
31	BA	2275	C
31	BA	2280	G
31	BA	2281	C
31	BA	2283	C
31	BA	2286	A
31	BA	2287	A
31	BA	2289	G
31	BA	2291	U
31	BA	2302	G
31	BA	2305	A
31	BA	2307	G
31	BA	2308	G
31	BA	2309	A
31	BA	2310	A
31	BA	2311	A
31	BA	2313	C
31	BA	2315	G
31	BA	2316	C
31	BA	2318	G
31	BA	2319	G
31	BA	2320	A
31	BA	2325	G
31	BA	2334	G
31	BA	2335	A
31	BA	2336	A
31	BA	2342	C
31	BA	2346	A
31	BA	2347	C
31	BA	2350	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	2354	G
31	BA	2360	A
31	BA	2361	A
31	BA	2362	G
31	BA	2376	A
31	BA	2383	G
31	BA	2385	C
31	BA	2387	U
31	BA	2388	A
31	BA	2394	C
31	BA	2400	G
31	BA	2402	C
31	BA	2405	G
31	BA	2406	U
31	BA	2410	G
31	BA	2411	A
31	BA	2422	A
31	BA	2423	U
31	BA	2425	A
31	BA	2429	G
31	BA	2430	A
31	BA	2435	A
31	BA	2439	A
31	BA	2440	C
31	BA	2441	C
31	BA	2447	G
31	BA	2448	A
31	BA	2464	C
31	BA	2465	C
31	BA	2468	G
31	BA	2469	A
31	BA	2470	G
31	BA	2471	C
31	BA	2472	G
31	BA	2473	U
31	BA	2475	C
31	BA	2476	A
31	BA	2477	C
31	BA	2482	G
31	BA	2483	C
31	BA	2484	G
31	BA	2487	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	2494	G
31	BA	2495	G
31	BA	2502	G
31	BA	2504	U
31	BA	2505	G
31	BA	2506	U
31	BA	2507	C
31	BA	2518	A
31	BA	2520	C
31	BA	2524	G
31	BA	2525	G
31	BA	2531	A
31	BA	2533	A
31	BA	2535	G
31	BA	2543	G
31	BA	2548	G
31	BA	2550	G
31	BA	2553	G
31	BA	2554	U
31	BA	2559	C
31	BA	2566	A
31	BA	2567	G
31	BA	2569	G
31	BA	2574	G
31	BA	2586	C
31	BA	2592	G
31	BA	2602	A
31	BA	2603	G
31	BA	2609	U
31	BA	2610	C
31	BA	2611	U
31	BA	2612	C
31	BA	2615	U
31	BA	2621	A
31	BA	2630	G
31	BA	2632	A
31	BA	2636	U
31	BA	2641	G
31	BA	2643	G
31	BA	2646	C
31	BA	2654	A
31	BA	2655	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	2657	A
31	BA	2658	C
31	BA	2659	G
31	BA	2660	A
31	BA	2661	G
31	BA	2662	A
31	BA	2665	A
31	BA	2666	C
31	BA	2670	A
31	BA	2673	G
31	BA	2682	U
31	BA	2689	U
31	BA	2690	C
31	BA	2691	C
31	BA	2702	U
31	BA	2707	G
31	BA	2712	U
31	BA	2712(A)	A
31	BA	2713	A
31	BA	2714	G
31	BA	2718	G
31	BA	2720	U
31	BA	2721	A
31	BA	2725	A
31	BA	2726	U
31	BA	2733	A
31	BA	2752	C
31	BA	2753	A
31	BA	2754	U
31	BA	2757	A
31	BA	2758	A
31	BA	2759	G
31	BA	2762	G
31	BA	2765	A
31	BA	2766	G
31	BA	2767	C
31	BA	2770	G
31	BA	2771	C
31	BA	2778	A
31	BA	2779	U
31	BA	2780	G
31	BA	2781	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	2782	G
31	BA	2787	C
31	BA	2789	C
31	BA	2790	A
31	BA	2791	C
31	BA	2793	G
31	BA	2795	G
31	BA	2801(A)	A
31	BA	2802	G
31	BA	2803	C
31	BA	2804	C
31	BA	2807	G
31	BA	2808	U
31	BA	2818	G
31	BA	2820	A
31	BA	2821	A
31	BA	2830	G
31	BA	2835	A
31	BA	2849	U
31	BA	2860	A
31	BA	2863	C
31	BA	2872	G
31	BA	2876	G
31	BA	2877	G
31	BA	2880	C
31	BA	2892	A
31	BA	2894	G
32	BB	3	C
32	BB	6	C
32	BB	8	U
32	BB	12	C
32	BB	13	A
32	BB	15	A
32	BB	22	U
32	BB	24	G
32	BB	25	A
32	BB	26	A
32	BB	27	C
32	BB	31	C
32	BB	32	C
32	BB	33	G
32	BB	39	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
32	BB	42	C
32	BB	45	A
32	BB	46	A
32	BB	47	C
32	BB	52	A
32	BB	55	U
32	BB	57	A
32	BB	58	A
32	BB	66	A
32	BB	67	G
32	BB	73	A
32	BB	74	U
32	BB	75	G
32	BB	81	G
32	BB	82	G
32	BB	87	G
32	BB	88	C
32	BB	89	G
32	BB	90	A
32	BB	91	C
32	BB	102	A
32	BB	103	G
32	BB	106	G
32	BB	110	G
32	BB	113	G
32	BB	116	G
32	BB	118	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	48	C
1	CA	50	A
1	CA	51	A
1	CA	54	C
1	CA	59	A
1	CA	61	G
1	CA	70	G
1	CA	80	G
1	CA	81	U
1	CA	82	U
1	CA	84	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	90	U
1	CA	91	C
1	CA	97	G
1	CA	101	A
1	CA	115	G
1	CA	116	A
1	CA	119	A
1	CA	120	A
1	CA	121	C
1	CA	131	C
1	CA	144	G
1	CA	148	G
1	CA	150	C
1	CA	158	G
1	CA	163	C
1	CA	164	U
1	CA	169	C
1	CA	170	U
1	CA	171	A
1	CA	172	A
1	CA	173	U
1	CA	181	G
1	CA	182	U
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	199	G
1	CA	216	G
1	CA	220	G
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	260	G
1	CA	266	G
1	CA	267	C
1	CA	281	G
1	CA	283	C
1	CA	289	G
1	CA	301	G
1	CA	328	C
1	CA	330	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	332	G
1	CA	338	A
1	CA	343	U
1	CA	344	A
1	CA	345	C
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	357	G
1	CA	358	U
1	CA	365	U
1	CA	366	C
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	388	G
1	CA	389	A
1	CA	390	C
1	CA	397	A
1	CA	398	C
1	CA	406	G
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	424	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	436	C
1	CA	437	U
1	CA	439	A
1	CA	442	C
1	CA	452	A
1	CA	461	A
1	CA	470	C
1	CA	472	A
1	CA	473	G
1	CA	483	C
1	CA	484	G
1	CA	485	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	495	A
1	CA	496	A
1	CA	498	U
1	CA	499	A
1	CA	500	G
1	CA	505	G
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	513	C
1	CA	517	G
1	CA	518	C
1	CA	520	A
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	544	G
1	CA	547	A
1	CA	559	A
1	CA	560	U
1	CA	561	U
1	CA	562	C
1	CA	563	A
1	CA	567	G
1	CA	572	A
1	CA	573	A
1	CA	576	G
1	CA	579	G
1	CA	587	G
1	CA	588	G
1	CA	596	C
1	CA	607	A
1	CA	614	A
1	CA	616	G
1	CA	617	G
1	CA	618	C
1	CA	621	A
1	CA	624	C
1	CA	629	G
1	CA	630	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	632	A
1	CA	633	G
1	CA	640	A
1	CA	653	A
1	CA	665	A
1	CA	666	G
1	CA	687	A
1	CA	688	G
1	CA	693	G
1	CA	701	C
1	CA	702	A
1	CA	703	G
1	CA	720	C
1	CA	721	G
1	CA	723	U
1	CA	731	G
1	CA	733	A
1	CA	749	C
1	CA	753	A
1	CA	754	C
1	CA	755	G
1	CA	766	A
1	CA	772	U
1	CA	773	G
1	CA	777	A
1	CA	786	G
1	CA	792	A
1	CA	793	U
1	CA	794	A
1	CA	800	G
1	CA	815	A
1	CA	816	A
1	CA	817	C
1	CA	819	A
1	CA	828	A
1	CA	833	U
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	859	A
1	CA	872	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	876	G
1	CA	884	U
1	CA	902	G
1	CA	908	A
1	CA	914	A
1	CA	916	G
1	CA	920	U
1	CA	921	U
1	CA	922	G
1	CA	923	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	950	U
1	CA	961	U
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	972	C
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1026	G
1	CA	1050	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1067	A
1	CA	1068	G
1	CA	1081	G
1	CA	1095	U
1	CA	1101	A
1	CA	1103	C
1	CA	1107	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1117	G
1	CA	1118	C
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1134	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1152	A
1	CA	1159	U
1	CA	1160	G
1	CA	1190	G
1	CA	1196	U
1	CA	1197	G
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1225	A
1	CA	1227	A
1	CA	1238	A
1	CA	1241	G
1	CA	1249	C
1	CA	1255	G
1	CA	1256	A
1	CA	1257	U
1	CA	1258	G
1	CA	1270	C
1	CA	1273	G
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1286	A
1	CA	1287	A
1	CA	1294	G
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1312	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1317	C
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1334	G
1	CA	1335	C
1	CA	1338	G
1	CA	1346	A
1	CA	1347	G
1	CA	1363(A)	A
1	CA	1364	U
1	CA	1370	G
1	CA	1381	U
1	CA	1387	G
1	CA	1388	C
1	CA	1397	C
1	CA	1402	C
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1443	G
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1457	G
1	CA	1487	G
1	CA	1492	A
1	CA	1494	G
1	CA	1499	A
1	CA	1500	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1517	G
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
31	DA	9	U
31	DA	10	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	12	U
31	DA	15	G
31	DA	23	G
31	DA	33	U
31	DA	34	C
31	DA	35	G
31	DA	45	C
31	DA	50	U
31	DA	51	G
31	DA	55	G
31	DA	59	U
31	DA	60	G
31	DA	63	U
31	DA	69	C
31	DA	71	A
31	DA	72	U
31	DA	74	A
31	DA	75	G
31	DA	83	G
31	DA	84	A
31	DA	90	U
31	DA	92	A
31	DA	94	C
31	DA	95	G
31	DA	100	G
31	DA	102	G
31	DA	103	A
31	DA	104	U
31	DA	114	U
31	DA	118	A
31	DA	120	U
31	DA	125	G
31	DA	129	C
31	DA	131	G
31	DA	137	C
31	DA	139	G
31	DA	139(A)	G
31	DA	140	G
31	DA	141	A
31	DA	142	A
31	DA	142(A)	C
31	DA	143(A)	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	145	G
31	DA	146	G
31	DA	153	C
31	DA	154	G
31	DA	154(A)	C
31	DA	157	U
31	DA	158	U
31	DA	171	G
31	DA	173	G
31	DA	175	G
31	DA	182	A
31	DA	183	C
31	DA	188	G
31	DA	193	U
31	DA	194	G
31	DA	196	A
31	DA	197	A
31	DA	199	A
31	DA	200	U
31	DA	204	A
31	DA	205	G
31	DA	214	G
31	DA	215	G
31	DA	216	A
31	DA	221	A
31	DA	222	A
31	DA	228	A
31	DA	229	A
31	DA	230	U
31	DA	233	A
31	DA	240	G
31	DA	248	G
31	DA	252	G
31	DA	266	G
31	DA	271(A)	A
31	DA	271(I)	G
31	DA	271(K)	U
31	DA	271(L)	U
31	DA	271(M)	G
31	DA	271(N)	U
31	DA	271(O)	C
31	DA	271(P)	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	271(R)	G
31	DA	271(T)	C
31	DA	271(W)	G
31	DA	271(Y)	U
31	DA	272	G
31	DA	272(B)	G
31	DA	272(G)	C
31	DA	272(H)	C
31	DA	272(J)	C
31	DA	274	G
31	DA	275	G
31	DA	279	C
31	DA	281	G
31	DA	286	C
31	DA	287	C
31	DA	288	C
31	DA	289	A
31	DA	299	A
31	DA	306	U
31	DA	311	A
31	DA	324	A
31	DA	327	G
31	DA	329	G
31	DA	330	A
31	DA	332	A
31	DA	338	G
31	DA	343	C
31	DA	346	A
31	DA	347	A
31	DA	348	G
31	DA	351	G
31	DA	352	G
31	DA	356	G
31	DA	358	U
31	DA	362	U
31	DA	363	G
31	DA	363(B)	G
31	DA	363(C)	G
31	DA	363(D)	G
31	DA	363(E)	U
31	DA	363(F)	A
31	DA	370	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	371	A
31	DA	372	G
31	DA	384	U
31	DA	386	G
31	DA	388	G
31	DA	389	G
31	DA	405	U
31	DA	406	G
31	DA	411	G
31	DA	416	C
31	DA	428	A
31	DA	442	G
31	DA	444	C
31	DA	446	G
31	DA	448	U
31	DA	449	A
31	DA	454	A
31	DA	455	C
31	DA	456	C
31	DA	457	A
31	DA	467	G
31	DA	470	A
31	DA	472	A
31	DA	473	G
31	DA	474	G
31	DA	475	U
31	DA	479	A
31	DA	481	G
31	DA	501	A
31	DA	505	A
31	DA	508	G
31	DA	509	C
31	DA	512	G
31	DA	513	A
31	DA	518	G
31	DA	528	A
31	DA	530	G
31	DA	531	C
31	DA	532	A
31	DA	533	G
31	DA	537	C
31	DA	542	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	543	C
31	DA	547	A
31	DA	548	A
31	DA	549	G
31	DA	563	G
31	DA	571	A
31	DA	573	G
31	DA	575	A
31	DA	586	A
31	DA	588	U
31	DA	602	G
31	DA	603	A
31	DA	604	G
31	DA	605	C
31	DA	607	U
31	DA	614(A)	U
31	DA	614(B)	G
31	DA	615	G
31	DA	620	G
31	DA	622	G
31	DA	623	G
31	DA	627	A
31	DA	637	A
31	DA	645	C
31	DA	646	A
31	DA	647	G
31	DA	651	G
31	DA	652	C
31	DA	656	G
31	DA	657	U
31	DA	663	G
31	DA	668	G
31	DA	669	G
31	DA	670	A
31	DA	671	C
31	DA	676	A
31	DA	686	G
31	DA	708	C
31	DA	709	U
31	DA	717	G
31	DA	722	A
31	DA	726	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	730	C
31	DA	738	G
31	DA	745	G
31	DA	746	A
31	DA	747	U
31	DA	753	C
31	DA	759	G
31	DA	762	U
31	DA	764	A
31	DA	765	G
31	DA	774	A
31	DA	775	G
31	DA	776	G
31	DA	782	A
31	DA	784	A
31	DA	785	G
31	DA	787	U
31	DA	790	C
31	DA	791	C
31	DA	792	G
31	DA	805	G
31	DA	807	U
31	DA	808	G
31	DA	812	C
31	DA	819	A
31	DA	822	U
31	DA	823	G
31	DA	826	U
31	DA	827	U
31	DA	828	U
31	DA	830	G
31	DA	831	G
31	DA	846	C
31	DA	847	U
31	DA	848	G
31	DA	856	C
31	DA	857	C
31	DA	858	U
31	DA	859	G
31	DA	866	A
31	DA	867	C
31	DA	871	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	872	A
31	DA	878	A
31	DA	883	G
31	DA	892	G
31	DA	896	A
31	DA	897	C
31	DA	898	C
31	DA	899	A
31	DA	901	A
31	DA	904	C
31	DA	905	U
31	DA	906	G
31	DA	907	U
31	DA	910	A
31	DA	917	A
31	DA	919	G
31	DA	926	A
31	DA	932	G
31	DA	941	A
31	DA	946	G
31	DA	952	G
31	DA	958	U
31	DA	959	A
31	DA	961	C
31	DA	974	G
31	DA	975	C
31	DA	975(A)	G
31	DA	983	A
31	DA	990	A
31	DA	991	C
31	DA	996	A
31	DA	998	C
31	DA	1004	C
31	DA	1005	C
31	DA	1006	C
31	DA	1010	A
31	DA	1011	G
31	DA	1012	U
31	DA	1013	C
31	DA	1015	G
31	DA	1016	G
31	DA	1020	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1022	G
31	DA	1023	U
31	DA	1025	G
31	DA	1026	U
31	DA	1032	A
31	DA	1033	U
31	DA	1041	C
31	DA	1042	G
31	DA	1043	C
31	DA	1044	G
31	DA	1045	A
31	DA	1047	G
31	DA	1048	A
31	DA	1050	A
31	DA	1106	A
31	DA	1107	G
31	DA	1110	G
31	DA	1111	A
31	DA	1112	G
31	DA	1113	U
31	DA	1114	G
31	DA	1115	G
31	DA	1116	C
31	DA	1126	A
31	DA	1130	U
31	DA	1135	C
31	DA	1136	G
31	DA	1139	G
31	DA	1142	U
31	DA	1143	A
31	DA	1144	G
31	DA	1147	C
31	DA	1156	A
31	DA	1159	U
31	DA	1169	G
31	DA	1170	G
31	DA	1171	G
31	DA	1174	A
31	DA	1175	U
31	DA	1176	G
31	DA	1177	A
31	DA	1178	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1179	C
31	DA	1180	C
31	DA	1189	A
31	DA	1194	A
31	DA	1195	G
31	DA	1204	A
31	DA	1205	U
31	DA	1206	G
31	DA	1210	A
31	DA	1211	U
31	DA	1213	A
31	DA	1217	C
31	DA	1218	C
31	DA	1220	A
31	DA	1221	C
31	DA	1229	G
31	DA	1236	G
31	DA	1242	A
31	DA	1244	G
31	DA	1249	U
31	DA	1251	C
31	DA	1253	A
31	DA	1254	A
31	DA	1255	U
31	DA	1256	G
31	DA	1269	A
31	DA	1271	G
31	DA	1272	A
31	DA	1273	U
31	DA	1276	A
31	DA	1281	G
31	DA	1287	A
31	DA	1288	U
31	DA	1300	U
31	DA	1301	A
31	DA	1302	A
31	DA	1307	A
31	DA	1308	A
31	DA	1314	C
31	DA	1318	C
31	DA	1319	G
31	DA	1332	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1345	C
31	DA	1347	G
31	DA	1349	A
31	DA	1352	U
31	DA	1359	A
31	DA	1360	A
31	DA	1365	A
31	DA	1366	A
31	DA	1368	G
31	DA	1379	A
31	DA	1380	G
31	DA	1384	A
31	DA	1385	G
31	DA	1386	C
31	DA	1389	G
31	DA	1390	U
31	DA	1391	U
31	DA	1392	A
31	DA	1395	A
31	DA	1397	U
31	DA	1398	C
31	DA	1404	C
31	DA	1407	C
31	DA	1411	C
31	DA	1416	G
31	DA	1417	C
31	DA	1420	U
31	DA	1421	G
31	DA	1427	A
31	DA	1428	C
31	DA	1437	C
31	DA	1444	G
31	DA	1445	A
31	DA	1445(A)	C
31	DA	1448	G
31	DA	1449	A
31	DA	1450	G
31	DA	1452	A
31	DA	1455	G
31	DA	1459	G
31	DA	1460	A
31	DA	1461	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1467	C
31	DA	1471	A
31	DA	1472	A
31	DA	1473	G
31	DA	1474	C
31	DA	1475	G
31	DA	1476	C
31	DA	1477	A
31	DA	1479	G
31	DA	1480	G
31	DA	1481	U
31	DA	1482	G
31	DA	1484	G
31	DA	1485	G
31	DA	1486	A
31	DA	1488	G
31	DA	1490	A
31	DA	1491	G
31	DA	1492	G
31	DA	1493	C
31	DA	1494	A
31	DA	1495	A
31	DA	1496	A
31	DA	1497	U
31	DA	1498	C
31	DA	1501	C
31	DA	1502	C
31	DA	1505	C
31	DA	1507	A
31	DA	1508	A
31	DA	1509	C
31	DA	1509(A)	A
31	DA	1512	U
31	DA	1513	C
31	DA	1515	G
31	DA	1517	G
31	DA	1519	G
31	DA	1520	G
31	DA	1528	A
31	DA	1528(A)	A
31	DA	1529	G
31	DA	1530	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1531	C
31	DA	1532	C
31	DA	1533	G
31	DA	1543	C
31	DA	1544	A
31	DA	1545	A
31	DA	1546	C
31	DA	1554	A
31	DA	1558	A
31	DA	1559	G
31	DA	1566	A
31	DA	1569	A
31	DA	1578	U
31	DA	1579	A
31	DA	1580	A
31	DA	1584	C
31	DA	1586	A
31	DA	1587	A
31	DA	1588	C
31	DA	1589	C
31	DA	1591	G
31	DA	1592	C
31	DA	1593	G
31	DA	1598	C
31	DA	1600	C
31	DA	1603	A
31	DA	1608	A
31	DA	1609	A
31	DA	1610	A
31	DA	1613	G
31	DA	1617	C
31	DA	1618	A
31	DA	1632	A
31	DA	1634	A
31	DA	1635	G
31	DA	1640	C
31	DA	1647	G
31	DA	1648	C
31	DA	1652	A
31	DA	1653	G
31	DA	1654	A
31	DA	1668	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1670	C
31	DA	1674	G
31	DA	1675	C
31	DA	1678	G
31	DA	1679	U
31	DA	1694	C
31	DA	1695	G
31	DA	1696	G
31	DA	1700	A
31	DA	1701	A
31	DA	1702	G
31	DA	1717	G
31	DA	1718	G
31	DA	1722	A
31	DA	1739	U
31	DA	1740	G
31	DA	1741	A
31	DA	1742	G
31	DA	1744	C
31	DA	1745(A)	C
31	DA	1746	G
31	DA	1748	G
31	DA	1749	A
31	DA	1756	G
31	DA	1758	G
31	DA	1763	G
31	DA	1764	G
31	DA	1773	A
31	DA	1778	U
31	DA	1781	C
31	DA	1791	A
31	DA	1798	U
31	DA	1799	G
31	DA	1800	C
31	DA	1801	G
31	DA	1816	G
31	DA	1820	U
31	DA	1821	A
31	DA	1828	G
31	DA	1829	A
31	DA	1835	G
31	DA	1836	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1837	C
31	DA	1838	C
31	DA	1847	A
31	DA	1858	G
31	DA	1865	G
31	DA	1866	C
31	DA	1877	A
31	DA	1878	G
31	DA	1879	C
31	DA	1881	C
31	DA	1882	C
31	DA	1884	A
31	DA	1888	G
31	DA	1900	A
31	DA	1905	C
31	DA	1906	G
31	DA	1913	A
31	DA	1914	C
31	DA	1916	A
31	DA	1929	G
31	DA	1930	G
31	DA	1934	C
31	DA	1935	G
31	DA	1936	A
31	DA	1937	A
31	DA	1938	A
31	DA	1946	U
31	DA	1947	C
31	DA	1955	U
31	DA	1962	C
31	DA	1963	U
31	DA	1964	G
31	DA	1967	C
31	DA	1969	A
31	DA	1970	A
31	DA	1971	A
31	DA	1972	A
31	DA	1982	C
31	DA	1991	U
31	DA	1993	U
31	DA	1997	G
31	DA	2020	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	2023	G
31	DA	2027	G
31	DA	2028	U
31	DA	2030	A
31	DA	2031	A
31	DA	2032	G
31	DA	2033	A
31	DA	2034	U
31	DA	2035	G
31	DA	2036	C
31	DA	2043	C
31	DA	2049	G
31	DA	2055	C
31	DA	2056	G
31	DA	2060	A
31	DA	2061	G
31	DA	2062	A
31	DA	2069	G
31	DA	2071	A
31	DA	2093	G
31	DA	2094	G
31	DA	2095	C
31	DA	2099	U
31	DA	2103	C
31	DA	2104	G
31	DA	2105	C
31	DA	2187	G
31	DA	2189	U
31	DA	2190	G
31	DA	2191	G
31	DA	2192	G
31	DA	2194	G
31	DA	2198	A
31	DA	2199	A
31	DA	2200	C
31	DA	2201	C
31	DA	2205	C
31	DA	2207	G
31	DA	2208	A
31	DA	2218	U
31	DA	2219	G
31	DA	2225	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	2226	C
31	DA	2227	A
31	DA	2238	G
31	DA	2239	G
31	DA	2259	G
31	DA	2263	C
31	DA	2268	A
31	DA	2273	A
31	DA	2275	C
31	DA	2280	G
31	DA	2281	C
31	DA	2283	C
31	DA	2286	A
31	DA	2287	A
31	DA	2289	G
31	DA	2291	U
31	DA	2302	G
31	DA	2305	A
31	DA	2307	G
31	DA	2308	G
31	DA	2309	A
31	DA	2310	A
31	DA	2311	A
31	DA	2313	C
31	DA	2315	G
31	DA	2316	C
31	DA	2318	G
31	DA	2319	G
31	DA	2320	A
31	DA	2325	G
31	DA	2334	G
31	DA	2335	A
31	DA	2336	A
31	DA	2342	C
31	DA	2346	A
31	DA	2347	C
31	DA	2350	C
31	DA	2354	G
31	DA	2360	A
31	DA	2361	A
31	DA	2362	G
31	DA	2376	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	2377	A
31	DA	2383	G
31	DA	2385	C
31	DA	2387	U
31	DA	2388	A
31	DA	2394	C
31	DA	2402	C
31	DA	2405	G
31	DA	2406	U
31	DA	2410	G
31	DA	2411	A
31	DA	2415	G
31	DA	2422	A
31	DA	2423	U
31	DA	2425	A
31	DA	2429	G
31	DA	2430	A
31	DA	2435	A
31	DA	2439	A
31	DA	2440	C
31	DA	2441	C
31	DA	2447	G
31	DA	2448	A
31	DA	2465	C
31	DA	2468	G
31	DA	2469	A
31	DA	2470	G
31	DA	2471	C
31	DA	2472	G
31	DA	2473	U
31	DA	2475	C
31	DA	2476	A
31	DA	2477	C
31	DA	2482	G
31	DA	2483	C
31	DA	2484	G
31	DA	2487	G
31	DA	2494	G
31	DA	2495	G
31	DA	2502	G
31	DA	2504	U
31	DA	2505	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	2506	U
31	DA	2507	C
31	DA	2518	A
31	DA	2520	C
31	DA	2524	G
31	DA	2525	G
31	DA	2531	A
31	DA	2533	A
31	DA	2535	G
31	DA	2542	A
31	DA	2543	G
31	DA	2548	G
31	DA	2550	G
31	DA	2553	G
31	DA	2554	U
31	DA	2559	C
31	DA	2566	A
31	DA	2567	G
31	DA	2569	G
31	DA	2574	G
31	DA	2578	G
31	DA	2586	C
31	DA	2592	G
31	DA	2602	A
31	DA	2603	G
31	DA	2609	U
31	DA	2610	C
31	DA	2611	U
31	DA	2612	C
31	DA	2615	U
31	DA	2621	A
31	DA	2630	G
31	DA	2632	A
31	DA	2636	U
31	DA	2641	G
31	DA	2643	G
31	DA	2646	C
31	DA	2654	A
31	DA	2655	G
31	DA	2657	A
31	DA	2658	C
31	DA	2659	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	2660	A
31	DA	2661	G
31	DA	2662	A
31	DA	2665	A
31	DA	2666	C
31	DA	2670	A
31	DA	2673	G
31	DA	2682	U
31	DA	2689	U
31	DA	2690	C
31	DA	2691	C
31	DA	2702	U
31	DA	2707	G
31	DA	2712	U
31	DA	2712(A)	A
31	DA	2713	A
31	DA	2714	G
31	DA	2718	G
31	DA	2720	U
31	DA	2721	A
31	DA	2725	A
31	DA	2726	U
31	DA	2733	A
31	DA	2751	G
31	DA	2752	C
31	DA	2753	A
31	DA	2754	U
31	DA	2757	A
31	DA	2758	A
31	DA	2759	G
31	DA	2762	G
31	DA	2764	A
31	DA	2765	A
31	DA	2766	G
31	DA	2767	C
31	DA	2770	G
31	DA	2771	C
31	DA	2778	A
31	DA	2779	U
31	DA	2780	G
31	DA	2781	A
31	DA	2782	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	2787	C
31	DA	2789	C
31	DA	2790	A
31	DA	2791	C
31	DA	2793	G
31	DA	2795	G
31	DA	2801(A)	A
31	DA	2802	G
31	DA	2803	C
31	DA	2804	C
31	DA	2807	G
31	DA	2808	U
31	DA	2818	G
31	DA	2820	A
31	DA	2821	A
31	DA	2830	G
31	DA	2835	A
31	DA	2849	U
31	DA	2859	G
31	DA	2860	A
31	DA	2863	C
31	DA	2872	G
31	DA	2876	G
31	DA	2877	G
31	DA	2880	C
31	DA	2892	A
31	DA	2894	G
32	DB	3	C
32	DB	6	C
32	DB	8	U
32	DB	12	C
32	DB	13	A
32	DB	15	A
32	DB	22	U
32	DB	24	G
32	DB	25	A
32	DB	26	A
32	DB	27	C
32	DB	31	C
32	DB	32	C
32	DB	33	G
32	DB	39	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
32	DB	42	C
32	DB	45	A
32	DB	46	A
32	DB	47	C
32	DB	52	A
32	DB	55	U
32	DB	57	A
32	DB	58	A
32	DB	66	A
32	DB	67	G
32	DB	73	A
32	DB	74	U
32	DB	75	G
32	DB	81	G
32	DB	82	G
32	DB	87	G
32	DB	88	C
32	DB	89	G
32	DB	90	A
32	DB	91	C
32	DB	102	A
32	DB	103	G
32	DB	106	G
32	DB	110	G
32	DB	113	G
32	DB	116	G
32	DB	118	G

All (212) RNA pucker outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	30	U
1	AA	60	A
1	AA	79	G
1	AA	115	G
1	AA	119	A
1	AA	250	A
1	AA	266	G
1	AA	353	A
1	AA	366	C
1	AA	428	G
1	AA	429	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	484	G
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	748	C
1	AA	819	A
1	AA	913	A
1	AA	991	U
1	AA	992	U
1	AA	1049	U
1	AA	1064	G
1	AA	1065	U
1	AA	1067	A
1	AA	1201	A
1	AA	1285	A
1	AA	1498	U
1	AA	1504	G
31	BA	34	C
31	BA	49	A
31	BA	50	U
31	BA	71	A
31	BA	100	G
31	BA	102	G
31	BA	128	C
31	BA	221	A
31	BA	272	G
31	BA	370	G
31	BA	387	U
31	BA	472	A
31	BA	474	G
31	BA	587	C
31	BA	603	A
31	BA	669	G
31	BA	685	A
31	BA	746	A
31	BA	752	A
31	BA	774	A
31	BA	790	C
31	BA	856	C
31	BA	858	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	974	G
31	BA	1106	A
31	BA	1112	G
31	BA	1142(A)	A
31	BA	1176	G
31	BA	1210	A
31	BA	1275	A
31	BA	1286	A
31	BA	1300	U
31	BA	1378	A
31	BA	1379	A
31	BA	1397	U
31	BA	1427	A
31	BA	1459	G
31	BA	1474	C
31	BA	1484	G
31	BA	1494	A
31	BA	1533	G
31	BA	1544	A
31	BA	1558	A
31	BA	1608	A
31	BA	1609	A
31	BA	1652	A
31	BA	1653	G
31	BA	1694	C
31	BA	1799	G
31	BA	1819	A
31	BA	1838	C
31	BA	1876	A
31	BA	1934	C
31	BA	1963	U
31	BA	1992	G
31	BA	2030	A
31	BA	2034	U
31	BA	2191	G
31	BA	2208	A
31	BA	2225	A
31	BA	2282	G
31	BA	2288	A
31	BA	2318	G
31	BA	2405	G
31	BA	2406	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BA	2422	A
31	BA	2439	A
31	BA	2447	G
31	BA	2542	A
31	BA	2610	C
31	BA	2611	U
31	BA	2657	A
31	BA	2662	A
31	BA	2689	U
31	BA	2756	U
31	BA	2796	U
31	BA	2859	G
1	CA	30	U
1	CA	60	A
1	CA	79	G
1	CA	115	G
1	CA	119	A
1	CA	250	A
1	CA	266	G
1	CA	353	A
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	509	A
1	CA	533	A
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	748	C
1	CA	819	A
1	CA	913	A
1	CA	991	U
1	CA	992	U
1	CA	1049	U
1	CA	1064	G
1	CA	1065	U
1	CA	1067	A
1	CA	1201	A
1	CA	1285	A
1	CA	1498	U
1	CA	1504	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	34	C
31	DA	49	A
31	DA	71	A
31	DA	102	G
31	DA	128	C
31	DA	221	A
31	DA	272	G
31	DA	370	G
31	DA	387	U
31	DA	472	A
31	DA	474	G
31	DA	587	C
31	DA	603	A
31	DA	669	G
31	DA	685	A
31	DA	746	A
31	DA	752	A
31	DA	774	A
31	DA	790	C
31	DA	856	C
31	DA	858	U
31	DA	974	G
31	DA	1106	A
31	DA	1112	G
31	DA	1176	G
31	DA	1210	A
31	DA	1275	A
31	DA	1286	A
31	DA	1300	U
31	DA	1378	A
31	DA	1379	A
31	DA	1384	A
31	DA	1397	U
31	DA	1420	U
31	DA	1427	A
31	DA	1459	G
31	DA	1474	C
31	DA	1484	G
31	DA	1494	A
31	DA	1533	G
31	DA	1544	A
31	DA	1558	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DA	1608	A
31	DA	1652	A
31	DA	1653	G
31	DA	1694	C
31	DA	1799	G
31	DA	1819	A
31	DA	1876	A
31	DA	1934	C
31	DA	1963	U
31	DA	1992	G
31	DA	2030	A
31	DA	2034	U
31	DA	2191	G
31	DA	2208	A
31	DA	2225	A
31	DA	2282	G
31	DA	2288	A
31	DA	2318	G
31	DA	2405	G
31	DA	2406	U
31	DA	2422	A
31	DA	2439	A
31	DA	2447	G
31	DA	2542	A
31	DA	2610	C
31	DA	2611	U
31	DA	2657	A
31	DA	2662	A
31	DA	2689	U
31	DA	2751	G
31	DA	2756	U
31	DA	2796	U
31	DA	2859	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

Of 827 ligands modelled in this entry, 825 are monoatomic - leaving 2 for Mogul analysis.

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
55	TEL	BA	3362	-	58,62,62	1.77	7 (12%)	74,92,92	3.11	23 (31%)
55	TEL	DA	3320	-	58,62,62	1.77	7 (12%)	74,92,92	3.11	23 (31%)

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
55	TEL	BA	3362	-	-	31/73/108/108	0/4/5/5
55	TEL	DA	3320	-	-	31/73/108/108	0/4/5/5

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	DA	3320	TEL	C43-C40	-7.29	1.37	1.49
55	BA	3362	TEL	C43-C40	-7.23	1.37	1.49
55	BA	3362	TEL	O5-C2	-4.94	1.40	1.47
55	DA	3320	TEL	O5-C2	-4.93	1.40	1.47
55	BA	3362	TEL	C36-N31	-4.30	1.31	1.38
55	BA	3362	TEL	O32-C28	-4.30	1.36	1.44
55	DA	3320	TEL	O32-C28	-4.28	1.36	1.44
55	DA	3320	TEL	C36-N31	-4.25	1.32	1.38
55	DA	3320	TEL	C28-C34	-2.98	1.47	1.55
55	BA	3362	TEL	C28-C34	-2.96	1.47	1.55
55	DA	3320	TEL	C30-C34	-2.49	1.50	1.54
55	BA	3362	TEL	C30-C34	-2.48	1.50	1.54
55	BA	3362	TEL	C10-N6	-2.21	1.31	1.35
55	DA	3320	TEL	C10-N6	-2.19	1.31	1.35

All (46) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	BA	3362	TEL	C8-C4-C2	-16.47	92.52	115.23
55	DA	3320	TEL	C8-C4-C2	-16.47	92.52	115.23
55	DA	3320	TEL	O9-C15-C21	10.31	121.11	110.93
55	BA	3362	TEL	O9-C15-C21	10.31	121.11	110.93
55	BA	3362	TEL	C2-O5-C10	-7.20	102.94	109.23
55	DA	3320	TEL	C2-O5-C10	-7.20	102.95	109.23
55	DA	3320	TEL	O20-C15-C21	-5.22	117.88	124.65
55	BA	3362	TEL	O20-C15-C21	-5.21	117.90	124.65
55	BA	3362	TEL	C38-O32-C28	-4.89	107.55	117.51
55	DA	3320	TEL	C38-O32-C28	-4.88	107.58	117.51
55	BA	3362	TEL	C28-C24-C19	-4.37	108.98	116.10
55	DA	3320	TEL	C28-C24-C19	-4.35	109.00	116.10
55	BA	3362	TEL	O5-C2-C4	4.12	114.76	105.63
55	DA	3320	TEL	O5-C2-C4	4.12	114.76	105.63
55	DA	3320	TEL	C22-C27-N31	-3.90	100.82	111.59
55	BA	3362	TEL	C22-C27-N31	-3.89	100.83	111.59
55	BA	3362	TEL	C24-C19-C13	-3.81	106.94	113.32
55	DA	3320	TEL	C24-C19-C13	-3.80	106.95	113.32
55	DA	3320	TEL	O45-C42-C44	-3.33	103.53	110.37
55	BA	3362	TEL	O45-C42-C44	-3.32	103.54	110.37
55	DA	3320	TEL	O9-C4-C2	3.12	112.53	105.48
55	BA	3362	TEL	O9-C4-C2	3.12	112.52	105.48
55	DA	3320	TEL	C55-C50-C54	-2.94	108.82	113.27
55	DA	3320	TEL	C3-N6-C10	-2.93	107.68	111.64
55	BA	3362	TEL	C3-N6-C10	-2.92	107.69	111.64
55	BA	3362	TEL	C55-C50-C54	-2.91	108.87	113.27
55	DA	3320	TEL	C56-N52-C47	2.90	121.93	116.85
55	BA	3362	TEL	C56-N52-C47	2.89	121.91	116.85
55	BA	3362	TEL	O5-C2-C3	-2.88	100.34	103.28
55	DA	3320	TEL	O5-C2-C3	-2.86	100.36	103.28
55	BA	3362	TEL	O16-C10-N6	-2.79	124.40	128.08
55	DA	3320	TEL	O16-C10-N6	-2.78	124.40	128.08
55	DA	3320	TEL	C35-C30-C34	-2.69	109.28	112.94
55	BA	3362	TEL	C35-C30-C34	-2.67	109.31	112.94
55	BA	3362	TEL	C25-C21-C26	-2.63	106.57	111.62
55	DA	3320	TEL	C25-C21-C26	-2.62	106.59	111.62
55	BA	3362	TEL	O45-C50-C54	2.56	113.00	109.34
55	DA	3320	TEL	O45-C50-C54	2.55	112.99	109.34
55	DA	3320	TEL	C58-N53-C49	-2.29	106.56	113.15
55	BA	3362	TEL	C58-N53-C49	-2.28	106.58	113.15
55	BA	3362	TEL	C54-C49-N53	-2.26	109.24	115.59
55	DA	3320	TEL	C54-C49-N53	-2.26	109.25	115.59

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	BA	3362	TEL	C25-C21-C15	-2.17	106.09	110.34
55	DA	3320	TEL	C25-C21-C15	-2.15	106.12	110.34
55	DA	3320	TEL	C23-C19-C13	-2.07	104.43	109.43
55	BA	3362	TEL	C23-C19-C13	-2.05	104.46	109.43

There are no chirality outliers.

All (62) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
55	BA	3362	TEL	C1-C2-C4-C8
55	BA	3362	TEL	C1-C2-C4-O9
55	BA	3362	TEL	C3-C2-C4-O9
55	BA	3362	TEL	O5-C2-C4-O9
55	BA	3362	TEL	C2-C3-C7-C13
55	BA	3362	TEL	N6-C3-C7-C13
55	BA	3362	TEL	C2-C4-C8-C14
55	BA	3362	TEL	C2-C4-O9-C15
55	BA	3362	TEL	C8-C4-O9-C15
55	BA	3362	TEL	C17-C11-N6-C3
55	BA	3362	TEL	C17-C11-N6-C10
55	BA	3362	TEL	C7-C13-C19-C23
55	BA	3362	TEL	C13-C19-C24-C28
55	BA	3362	TEL	C24-C28-C34-O39
55	DA	3320	TEL	C1-C2-C4-C8
55	DA	3320	TEL	C1-C2-C4-O9
55	DA	3320	TEL	C3-C2-C4-O9
55	DA	3320	TEL	O5-C2-C4-O9
55	DA	3320	TEL	C2-C3-C7-C13
55	DA	3320	TEL	N6-C3-C7-C13
55	DA	3320	TEL	C2-C4-C8-C14
55	DA	3320	TEL	C2-C4-O9-C15
55	DA	3320	TEL	C8-C4-O9-C15
55	DA	3320	TEL	C17-C11-N6-C3
55	DA	3320	TEL	C17-C11-N6-C10
55	DA	3320	TEL	C7-C13-C19-C23
55	DA	3320	TEL	C24-C28-C34-O39
55	BA	3362	TEL	C17-C22-C27-N31
55	DA	3320	TEL	C17-C22-C27-N31
55	BA	3362	TEL	C21-C15-O9-C4
55	DA	3320	TEL	C21-C15-O9-C4
55	BA	3362	TEL	N6-C3-C7-C12
55	DA	3320	TEL	N6-C3-C7-C12

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms
55	BA	3362	TEL	O20-C15-O9-C4
55	DA	3320	TEL	O20-C15-O9-C4
55	BA	3362	TEL	O18-C13-C19-C23
55	DA	3320	TEL	O18-C13-C19-C23
55	BA	3362	TEL	C44-C49-N53-C57
55	DA	3320	TEL	C44-C49-N53-C57
55	BA	3362	TEL	C7-C13-C19-C24
55	DA	3320	TEL	C7-C13-C19-C24
55	BA	3362	TEL	O5-C2-C4-C8
55	DA	3320	TEL	O5-C2-C4-C8
55	BA	3362	TEL	C11-C17-C22-C27
55	DA	3320	TEL	C11-C17-C22-C27
55	DA	3320	TEL	C13-C19-C24-C28
55	BA	3362	TEL	C33-C28-C34-O39
55	DA	3320	TEL	C33-C28-C34-O39
55	BA	3362	TEL	N6-C11-C17-C22
55	DA	3320	TEL	N6-C11-C17-C22
55	BA	3362	TEL	C2-C3-C7-C12
55	DA	3320	TEL	C2-C3-C7-C12
55	BA	3362	TEL	C44-C42-O39-C34
55	DA	3320	TEL	C44-C42-O39-C34
55	BA	3362	TEL	C54-C49-N53-C58
55	DA	3320	TEL	C54-C49-N53-C58
55	BA	3362	TEL	O18-C13-C19-C24
55	DA	3320	TEL	O18-C13-C19-C24
55	BA	3362	TEL	O9-C15-C21-C26
55	DA	3320	TEL	O9-C15-C21-C26
55	BA	3362	TEL	C3-C2-C4-C8
55	DA	3320	TEL	C3-C2-C4-C8

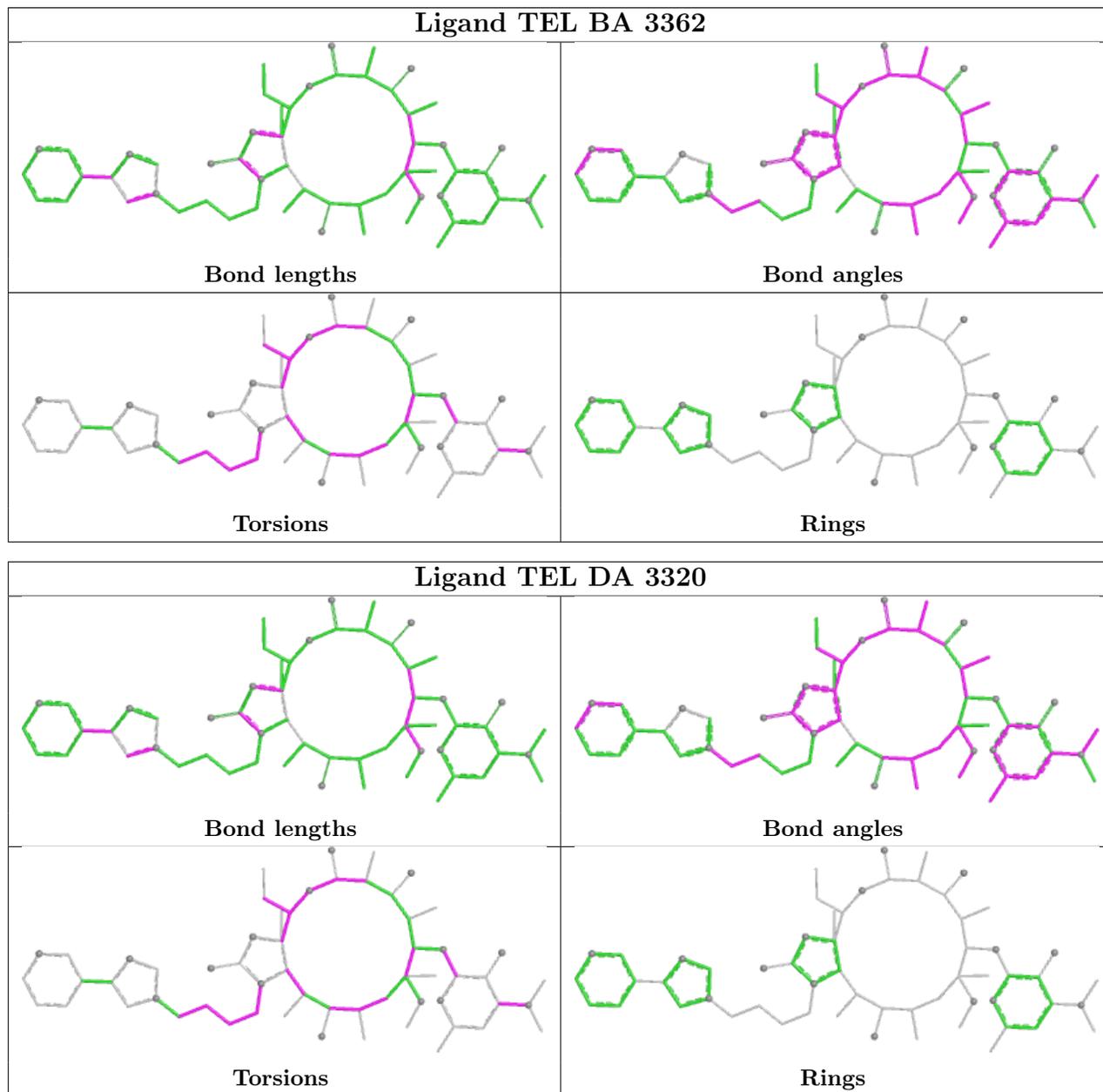
There are no ring outliers.

2 monomers are involved in 66 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	BA	3362	TEL	32	0
55	DA	3320	TEL	34	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

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	3
13	AM	3
36	DG	1
36	BG	1
28	D6	1
28	B6	1
9	AI	1
47	BV	1
9	CI	1
47	DV	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DG	112:PRO	C	113:ARG	N	5.74
1	BG	112:PRO	C	113:ARG	N	5.73
1	CM	69:GLU	C	70:LEU	N	4.94
1	AM	69:GLU	C	70:LEU	N	4.93
1	D6	46:HIS	C	47:THR	N	4.90
1	AM	97:PRO	C	98:VAL	N	4.85
1	CM	97:PRO	C	98:VAL	N	4.85
1	B6	46:HIS	C	47:THR	N	4.84
1	AM	112:GLY	C	113:PRO	N	4.53
1	CM	112:GLY	C	113:PRO	N	4.50
1	AI	53:VAL	C	54:ASP	N	3.09
1	BV	80:GLN	C	81:TYR	N	3.09
1	CI	53:VAL	C	54:ASP	N	3.09
1	DV	80:GLN	C	81:TYR	N	3.03

## 6 Fit of model and data [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	AA	1504/1522 (98%)	0.66	127 (8%) 18 10	64, 134, 200, 203	0
1	CA	1504/1522 (98%)	0.63	122 (8%) 19 11	67, 134, 200, 203	0
2	AB	235/256 (91%)	1.08	42 (17%) 4 2	122, 175, 196, 201	0
2	CB	235/256 (91%)	0.96	36 (15%) 6 3	123, 175, 196, 202	0
3	AC	207/239 (86%)	0.91	31 (14%) 6 3	122, 174, 194, 197	0
3	CC	207/239 (86%)	0.84	28 (13%) 8 5	122, 175, 195, 199	0
4	AD	208/209 (99%)	1.14	40 (19%) 4 2	89, 149, 187, 193	0
4	CD	208/209 (99%)	1.31	45 (21%) 3 1	86, 148, 186, 193	0
5	AE	151/162 (93%)	0.74	18 (11%) 10 6	88, 127, 174, 197	0
5	CE	151/162 (93%)	0.73	19 (12%) 9 5	90, 128, 174, 197	0
6	AF	101/101 (100%)	0.93	15 (14%) 7 3	95, 151, 183, 196	0
6	CF	101/101 (100%)	1.28	19 (18%) 4 2	96, 154, 184, 198	0
7	AG	155/156 (99%)	1.19	32 (20%) 3 2	146, 184, 197, 200	0
7	CG	155/156 (99%)	0.95	23 (14%) 7 4	146, 185, 197, 199	0
8	AH	138/138 (100%)	0.68	15 (10%) 12 7	92, 129, 167, 189	0
8	CH	138/138 (100%)	0.75	15 (10%) 12 7	92, 129, 166, 189	0
9	AI	127/128 (99%)	1.28	29 (22%) 2 1	143, 190, 200, 202	0
9	CI	127/128 (99%)	1.29	31 (24%) 2 1	144, 190, 199, 202	0
10	AJ	99/105 (94%)	1.23	23 (23%) 2 1	130, 184, 199, 200	0
10	CJ	99/105 (94%)	1.19	20 (20%) 3 2	134, 185, 199, 202	0
11	AK	119/129 (92%)	0.92	21 (17%) 4 3	87, 142, 187, 200	0
11	CK	119/129 (92%)	1.26	27 (22%) 3 1	86, 144, 189, 200	0
12	AL	125/135 (92%)	0.96	22 (17%) 4 3	76, 114, 168, 200	0
12	CL	125/135 (92%)	1.10	24 (19%) 4 2	80, 114, 169, 199	0

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AM	115/126 (91%)	1.52	31 (26%) 2 1	147, 192, 199, 201	0
13	CM	115/126 (91%)	1.34	31 (26%) 2 1	148, 192, 199, 202	0
14	AN	60/61 (98%)	1.09	10 (16%) 5 3	141, 183, 196, 199	0
14	CN	60/61 (98%)	1.39	13 (21%) 3 1	142, 182, 196, 198	0
15	AO	88/89 (98%)	1.09	19 (21%) 3 1	85, 123, 173, 189	0
15	CO	88/89 (98%)	0.85	10 (11%) 11 7	87, 124, 176, 186	0
16	AP	84/88 (95%)	1.44	20 (23%) 2 1	97, 128, 177, 192	0
16	CP	84/88 (95%)	1.68	24 (28%) 1 1	97, 126, 175, 191	0
17	AQ	100/105 (95%)	0.92	17 (17%) 5 3	82, 113, 158, 175	0
17	CQ	100/105 (95%)	0.96	17 (17%) 5 3	82, 114, 158, 176	0
18	AR	70/88 (79%)	1.05	12 (17%) 5 3	102, 140, 183, 193	0
18	CR	70/88 (79%)	0.98	10 (14%) 7 4	103, 140, 182, 196	0
19	AS	79/93 (84%)	1.23	17 (21%) 3 1	160, 194, 199, 199	0
19	CS	79/93 (84%)	1.13	16 (20%) 3 2	158, 193, 199, 200	0
20	AT	99/106 (93%)	1.51	27 (27%) 2 1	97, 133, 181, 196	0
20	CT	99/106 (93%)	1.32	26 (26%) 2 1	97, 132, 180, 197	0
21	AU	25/27 (92%)	2.44	15 (60%) 0 0	153, 185, 194, 195	0
21	CU	25/27 (92%)	3.08	13 (52%) 0 0	156, 186, 195, 196	0
22	B0	85/85 (100%)	0.60	12 (14%) 7 4	56, 78, 183, 200	0
22	D0	85/85 (100%)	0.57	8 (9%) 15 9	62, 82, 179, 199	0
23	B1	89/98 (90%)	1.51	26 (29%) 1 1	54, 86, 160, 184	0
23	D1	89/98 (90%)	1.38	25 (28%) 2 1	57, 88, 162, 191	0
24	B2	51/72 (70%)	2.19	25 (49%) 0 0	63, 105, 166, 192	0
24	D2	51/72 (70%)	2.12	25 (49%) 0 0	68, 110, 167, 192	0
25	B3	60/60 (100%)	0.83	10 (16%) 5 3	49, 77, 143, 193	0
25	D3	60/60 (100%)	0.34	4 (6%) 25 15	54, 79, 145, 186	0
26	B4	32/71 (45%)	1.48	6 (18%) 4 2	140, 177, 199, 200	0
26	D4	32/71 (45%)	1.80	12 (37%) 1 0	139, 180, 199, 201	0
27	B5	58/60 (96%)	0.89	7 (12%) 10 6	40, 65, 182, 197	0
27	D5	58/60 (96%)	0.84	9 (15%) 6 3	42, 69, 186, 197	0
28	B6	45/54 (83%)	2.04	19 (42%) 1 0	52, 100, 167, 192	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
28	D6	45/54 (83%)	1.83	19 (42%) 1 0	57, 102, 169, 189	0
29	B7	49/49 (100%)	0.54	7 (14%) 7 4	42, 51, 132, 180	0
29	D7	49/49 (100%)	0.34	7 (14%) 7 4	45, 54, 132, 180	0
30	B8	64/65 (98%)	1.73	18 (28%) 2 1	53, 76, 137, 169	0
30	D8	64/65 (98%)	1.64	20 (31%) 1 1	55, 79, 140, 168	0
31	BA	2725/2787 (97%)	0.20	134 (4%) 36 21	38, 66, 177, 204	0
31	DA	2725/2787 (97%)	0.20	122 (4%) 39 23	44, 71, 181, 203	0
32	BB	119/122 (97%)	1.60	39 (32%) 1 0	56, 123, 191, 200	0
32	DB	119/122 (97%)	1.08	27 (22%) 3 1	64, 127, 194, 203	0
33	BD	272/276 (98%)	0.62	31 (11%) 11 7	42, 70, 130, 172	0
33	DD	272/276 (98%)	0.69	28 (10%) 13 8	47, 73, 128, 175	0
34	BE	205/206 (99%)	0.95	32 (15%) 6 3	40, 75, 166, 194	0
34	DE	205/206 (99%)	0.56	18 (8%) 17 10	46, 78, 169, 195	0
35	BF	208/210 (99%)	0.92	30 (14%) 7 4	39, 86, 178, 198	0
35	DF	208/210 (99%)	0.73	26 (12%) 9 6	44, 89, 182, 199	0
36	BG	181/182 (99%)	2.33	92 (50%) 0 0	116, 186, 200, 203	0
36	DG	181/182 (99%)	1.95	62 (34%) 1 0	119, 188, 200, 203	0
37	BH	160/180 (88%)	1.98	69 (43%) 1 0	81, 136, 181, 190	0
37	DH	160/180 (88%)	1.36	34 (21%) 3 2	87, 142, 186, 195	0
38	BI	146/148 (98%)	2.07	60 (41%) 1 0	74, 178, 197, 200	0
38	DI	146/148 (98%)	2.47	73 (50%) 0 0	76, 180, 198, 201	0
39	BN	139/140 (99%)	1.43	41 (29%) 1 1	51, 86, 154, 186	0
39	DN	139/140 (99%)	0.78	20 (14%) 7 4	56, 90, 155, 190	0
40	BO	122/122 (100%)	0.52	5 (4%) 42 24	51, 79, 133, 168	0
40	DO	122/122 (100%)	0.65	7 (5%) 30 18	54, 84, 136, 173	0
41	BP	146/150 (97%)	1.58	41 (28%) 2 1	43, 106, 165, 199	0
41	DP	146/150 (97%)	1.30	33 (22%) 3 1	42, 109, 168, 198	0
42	BQ	136/141 (96%)	1.06	22 (16%) 5 3	55, 88, 159, 190	0
42	DQ	136/141 (96%)	1.07	23 (16%) 5 3	59, 90, 160, 191	0
43	BR	117/118 (99%)	0.60	13 (11%) 12 7	43, 65, 134, 180	0
43	DR	117/118 (99%)	0.63	17 (14%) 7 4	47, 68, 136, 182	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å <sup>2</sup> )	Q<0.9	
44	BS	99/112 (88%)	2.16	45 (45%)	1	0	79, 134, 189, 198	0
44	DS	99/112 (88%)	1.95	39 (39%)	1	0	83, 136, 192, 198	0
45	BT	132/146 (90%)	1.32	27 (20%)	3	2	60, 105, 179, 192	0
45	DT	132/146 (90%)	1.20	25 (18%)	4	2	65, 107, 179, 195	0
46	BU	117/118 (99%)	1.04	26 (22%)	3	1	43, 71, 142, 190	0
46	DU	117/118 (99%)	1.05	24 (20%)	3	2	48, 76, 145, 194	0
47	BV	101/101 (100%)	2.08	47 (46%)	0	0	44, 117, 183, 198	0
47	DV	101/101 (100%)	1.10	21 (20%)	3	2	49, 120, 186, 197	0
48	BW	113/113 (100%)	0.34	8 (7%)	23	14	41, 58, 127, 188	0
48	DW	113/113 (100%)	0.21	2 (1%)	67	49	43, 62, 130, 191	0
49	BX	93/96 (96%)	1.21	23 (24%)	2	1	50, 82, 151, 186	0
49	DX	93/96 (96%)	1.01	17 (18%)	4	2	57, 84, 153, 186	0
50	BY	101/110 (91%)	2.55	55 (54%)	0	0	61, 120, 197, 199	0
50	DY	101/110 (91%)	2.01	41 (40%)	1	0	68, 121, 195, 199	0
51	BZ	177/206 (85%)	1.49	50 (28%)	1	1	76, 129, 182, 196	0
51	DZ	177/206 (85%)	1.02	27 (15%)	6	3	80, 133, 185, 196	0
All	All	20062/20922 (95%)	0.83	2987 (14%)	7	3	38, 110, 197, 204	0

All (2987) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	CD	6	GLY	14.8
13	CM	102	ARG	13.5
17	CQ	24	GLU	13.3
38	DI	120	ILE	13.2
27	B5	2	ALA	13.2
35	BF	207	GLY	13.0
42	BQ	141	GLN	12.4
38	DI	92	VAL	12.1
36	BG	152	LEU	12.0
39	BN	68	GLU	11.9
30	B8	65	GLU	11.5
36	DG	133	LEU	11.3
36	DG	26	GLN	11.2
42	DQ	23	GLY	10.9
50	BY	92	ASN	10.8

Continued on next page...

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	AA	89	C	10.8
24	B2	48	HIS	10.7
3	AC	10	PHE	10.6
44	BS	91	PRO	10.5
13	AM	101	GLN	10.5
42	BQ	140	ALA	10.2
35	BF	208	GLY	10.1
24	D2	42	GLY	10.1
36	DG	135	LEU	9.9
39	BN	1	MET	9.7
1	CA	84	U	9.7
36	DG	155	MET	9.7
36	DG	134	GLY	9.7
36	DG	142	PRO	9.7
30	B8	37	SER	9.7
37	DH	108	GLY	9.6
4	AD	112	VAL	9.5
21	CU	6	ARG	9.4
36	BG	137	GLU	9.3
16	AP	29	ASP	9.3
31	BA	652	C	9.2
45	BT	2	ASN	9.2
13	AM	102	ARG	9.0
36	BG	39	ILE	9.0
38	DI	118	LYS	9.0
34	BE	76	ARG	8.9
49	DX	33	LYS	8.8
28	B6	42	TRP	8.8
12	AL	91	LYS	8.8
36	BG	133	LEU	8.7
42	DQ	24	GLY	8.5
8	CH	99	GLU	8.5
31	DA	2802	G	8.5
36	BG	37	VAL	8.4
38	DI	68	LEU	8.3
50	DY	60	PHE	8.3
50	DY	61	ILE	8.2
44	BS	54	LEU	8.2
51	DZ	169	GLU	8.1
3	AC	184	TYR	8.1
36	DG	131	TYR	8.1
1	CA	1202	G	8.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
30	D8	40	GLU	7.9
30	B8	34	TRP	7.9
38	DI	119	PRO	7.9
42	BQ	24	GLY	7.9
36	BG	135	LEU	7.8
36	BG	155	MET	7.8
42	DQ	139	GLU	7.7
44	DS	91	PRO	7.7
16	CP	29	ASP	7.7
38	DI	122	GLU	7.7
1	AA	88	A	7.6
38	BI	91	SER	7.6
1	AA	90	U	7.5
38	DI	81	VAL	7.5
51	BZ	175	VAL	7.5
12	AL	89	ARG	7.5
11	CK	90	GLY	7.4
13	AM	100	GLY	7.4
21	CU	3	LYS	7.3
36	BG	35	GLU	7.3
42	BQ	23	GLY	7.3
21	CU	8	THR	7.3
31	BA	2796	U	7.3
47	BV	47	VAL	7.2
36	BG	63	ILE	7.2
31	BA	2802	G	7.2
23	D1	50	ARG	7.2
20	AT	9	ASN	7.1
44	BS	33	LYS	7.1
36	DG	97	ASP	7.1
41	BP	107	LYS	7.1
26	B4	27	THR	7.1
2	AB	213	LEU	7.1
41	DP	27	HIS	7.1
38	BI	97	ILE	7.1
35	BF	20	LEU	7.1
31	DA	652	C	7.0
33	DD	262	ARG	7.0
27	D5	2	ALA	7.0
31	BA	1051	G	7.0
50	BY	27	VAL	6.9
24	D2	43	GLN	6.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
30	D8	34	TRP	6.9
42	BQ	139	GLU	6.9
50	DY	88	LYS	6.9
50	DY	101	LYS	6.9
19	AS	71	LEU	6.9
31	BA	2101	G	6.8
5	CE	21	ALA	6.8
38	BI	70	GLU	6.8
50	DY	92	ASN	6.8
31	BA	1531	C	6.8
28	D6	23	THR	6.8
21	AU	3	LYS	6.8
51	BZ	171	ILE	6.8
35	BF	24	LEU	6.7
47	BV	70	ILE	6.7
4	CD	156	GLU	6.7
28	D6	42	TRP	6.6
9	AI	3	GLN	6.6
49	BX	73	ARG	6.6
1	CA	1442(A)	G	6.6
8	CH	1	MET	6.6
30	B8	39	LYS	6.5
24	D2	37	PHE	6.5
47	BV	96	ILE	6.5
20	CT	86	ARG	6.4
30	D8	50	LEU	6.4
39	BN	129	PRO	6.4
51	BZ	179	ASP	6.4
28	D6	24	GLU	6.4
4	CD	5	ILE	6.4
39	BN	67	LEU	6.4
43	BR	8	ARG	6.4
51	BZ	169	GLU	6.4
38	BI	121	LYS	6.4
7	AG	32	ARG	6.3
24	B2	54	LYS	6.3
13	AM	99	ARG	6.3
21	CU	11	GLY	6.3
44	BS	14	VAL	6.3
3	AC	8	ILE	6.3
3	CC	158	GLY	6.3
38	DI	79	ILE	6.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
17	CQ	101	ARG	6.2
7	CG	5	ARG	6.2
39	DN	1	MET	6.2
51	BZ	167	PRO	6.2
47	BV	75	PHE	6.2
30	D8	37	SER	6.1
4	CD	73	ARG	6.1
24	D2	54	LYS	6.1
50	BY	49	VAL	6.1
42	DQ	141	GLN	6.1
31	BA	11	G	6.1
32	BB	25	A	6.1
33	BD	34	VAL	6.0
50	DY	3	VAL	6.0
42	DQ	140	ALA	6.0
36	BG	59	GLU	6.0
2	AB	101	MET	6.0
30	B8	32	LEU	6.0
30	D8	29	LYS	6.0
20	AT	12	ALA	6.0
38	DI	80	PRO	5.9
50	BY	59	GLY	5.9
16	CP	8	ARG	5.9
36	BG	142	PRO	5.9
29	B7	49	ARG	5.8
8	CH	22	GLU	5.8
46	BU	117	GLN	5.8
39	DN	109	LYS	5.8
14	CN	29	ARG	5.8
45	BT	3	ARG	5.8
31	BA	2104	G	5.8
17	AQ	101	ARG	5.8
21	CU	15	ARG	5.8
31	DA	1533	G	5.8
50	DY	102	CYS	5.8
39	BN	41	ASP	5.7
2	AB	133	LYS	5.7
7	CG	32	ARG	5.7
11	AK	97	ALA	5.7
30	D8	32	LEU	5.7
4	AD	6	GLY	5.7
38	DI	116	LEU	5.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	AD	23	GLY	5.7
41	BP	74	GLU	5.7
50	DY	59	GLY	5.6
50	BY	101	LYS	5.6
32	BB	23	G	5.6
38	BI	109	ILE	5.6
46	DU	94	ASN	5.6
38	DI	121	LYS	5.6
49	DX	69	TYR	5.6
50	BY	79	CYS	5.6
31	BA	2106	G	5.6
9	AI	41	VAL	5.6
31	BA	2102	U	5.6
7	CG	38	LEU	5.6
44	BS	55	ALA	5.6
44	BS	15	ARG	5.6
31	BA	1533	G	5.6
31	BA	2105	C	5.6
36	DG	157	ILE	5.6
7	CG	26	PHE	5.6
30	D8	54	GLU	5.6
16	CP	7	ALA	5.5
41	DP	16	ARG	5.5
1	CA	83	U	5.5
32	BB	55	U	5.5
41	DP	51	PHE	5.5
23	D1	14	VAL	5.5
42	BQ	91	GLU	5.5
50	BY	44	ILE	5.5
50	DY	58	GLY	5.5
2	AB	98	LEU	5.5
47	DV	81	TYR	5.5
36	DG	65	GLY	5.5
36	DG	98	ARG	5.5
6	CF	7	ASN	5.5
36	BG	116	ASP	5.5
2	CB	212	GLN	5.5
36	BG	129	GLY	5.5
1	AA	1119	C	5.5
31	BA	897	C	5.5
28	B6	20	ASN	5.5
12	CL	100	ILE	5.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
38	DI	97	ILE	5.4
49	DX	34	ALA	5.4
31	BA	2103	C	5.4
1	AA	1002	G	5.4
19	AS	38	SER	5.4
38	BI	8	PRO	5.4
32	BB	5	C	5.4
39	DN	73	THR	5.4
36	BG	34	LEU	5.4
38	BI	88	ILE	5.4
31	BA	1532	C	5.4
50	DY	79	CYS	5.4
51	DZ	179	ASP	5.4
32	BB	54	G	5.4
49	DX	77	LYS	5.4
7	CG	2	ALA	5.4
13	AM	7	VAL	5.4
30	B8	64	TYR	5.4
44	DS	48	LEU	5.3
42	DQ	76	LYS	5.3
7	CG	33	ASP	5.3
37	BH	59	ARG	5.3
7	AG	27	ILE	5.3
31	DA	1051	G	5.3
2	AB	70	PHE	5.3
11	CK	42	TRP	5.3
32	BB	26	A	5.3
11	AK	90	GLY	5.3
34	BE	59	VAL	5.3
38	DI	63	ALA	5.3
21	CU	13	ILE	5.2
31	BA	2189	U	5.2
34	DE	76	ARG	5.2
22	B0	1	MET	5.2
9	CI	17	VAL	5.2
50	BY	48	ALA	5.2
37	BH	85	LYS	5.2
51	DZ	170	THR	5.2
7	AG	5	ARG	5.2
31	BA	1108	U	5.2
33	DD	272	ALA	5.2
19	AS	4	SER	5.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	CD	163	GLU	5.2
29	D7	47	ARG	5.2
50	BY	62	GLU	5.2
50	BY	91	GLU	5.2
20	CT	85	MET	5.2
23	B1	95	LEU	5.2
44	DS	14	VAL	5.2
41	DP	50	ARG	5.2
47	BV	62	LEU	5.2
37	BH	44	VAL	5.2
41	BP	15	ARG	5.1
23	B1	96	LYS	5.1
38	BI	74	ASN	5.1
24	B2	49	LYS	5.1
44	DS	33	LYS	5.1
45	BT	11	GLU	5.1
1	CA	1531	A	5.1
36	BG	157	ILE	5.1
46	DU	56	ASP	5.1
1	CA	1149	C	5.1
20	AT	55	ILE	5.1
47	BV	56	SER	5.1
2	AB	185	ILE	5.1
10	CJ	59	SER	5.0
43	DR	8	ARG	5.0
38	BI	95	LYS	5.0
7	CG	27	ILE	5.0
51	DZ	51	ALA	5.0
41	BP	110	TYR	5.0
32	BB	52	A	5.0
44	DS	98	VAL	5.0
3	AC	177	THR	5.0
37	BH	158	HIS	5.0
20	AT	79	ARG	5.0
37	BH	123	PHE	5.0
44	DS	96	GLY	5.0
31	DA	2106	G	5.0
31	DA	2103	C	4.9
16	AP	12	LYS	4.9
4	AD	156	GLU	4.9
45	BT	93	ARG	4.9
11	CK	128	ALA	4.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
29	B7	2	LYS	4.9
44	DS	37	ALA	4.9
10	AJ	5	ARG	4.9
38	DI	142	VAL	4.9
12	AL	71	PRO	4.9
30	B8	35	GLN	4.9
44	BS	96	GLY	4.9
31	BA	1049	C	4.9
38	DI	110	ASP	4.9
46	BU	91	ASP	4.9
2	AB	187	LEU	4.9
16	CP	6	LEU	4.9
41	BP	79	ARG	4.9
36	BG	139	LEU	4.9
22	D0	17	GLN	4.9
20	AT	85	MET	4.9
7	AG	36	LYS	4.8
51	BZ	168	GLU	4.8
3	CC	192	THR	4.8
38	BI	110	ASP	4.8
39	BN	130	HIS	4.8
4	CD	29	PRO	4.8
51	DZ	72	ARG	4.8
33	DD	236	GLY	4.8
31	BA	508	G	4.8
21	AU	14	TRP	4.8
38	BI	143	SER	4.8
35	BF	23	ASP	4.8
36	DG	2	PRO	4.8
36	BG	134	GLY	4.8
44	BS	109	GLY	4.8
1	AA	985	C	4.8
12	CL	116	SER	4.8
23	B1	50	ARG	4.8
13	AM	20	THR	4.8
50	BY	30	VAL	4.8
5	AE	91	LEU	4.8
41	DP	77	ARG	4.8
1	AA	1286	A	4.8
16	AP	11	SER	4.8
29	B7	48	LYS	4.8
50	DY	49	VAL	4.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	AP	28	ARG	4.7
20	AT	86	ARG	4.7
28	B6	39	TYR	4.7
50	DY	48	ALA	4.7
13	AM	97	PRO	4.7
38	DI	37	VAL	4.7
7	AG	26	PHE	4.7
50	BY	4	LYS	4.7
23	B1	93	GLU	4.7
3	AC	11	ARG	4.7
31	BA	1109	C	4.7
1	AA	1381	U	4.7
37	BH	152	ARG	4.7
10	AJ	47	PHE	4.7
4	CD	166	LYS	4.7
41	DP	107	LYS	4.7
1	CA	1033	G	4.7
37	DH	52	VAL	4.7
51	BZ	97	GLU	4.7
44	DS	55	ALA	4.7
49	BX	26	TYR	4.7
16	CP	71	ARG	4.6
30	B8	50	LEU	4.6
32	BB	119	G	4.6
2	AB	39	ILE	4.6
31	BA	1053	C	4.6
2	AB	165	VAL	4.6
36	DG	39	ILE	4.6
46	BU	115	ALA	4.6
14	CN	31	ARG	4.6
21	CU	14	TRP	4.6
31	BA	1530	C	4.6
46	DU	60	LEU	4.6
37	DH	148	ILE	4.6
45	DT	11	GLU	4.6
17	AQ	68	ARG	4.6
41	BP	82	GLY	4.6
32	BB	87	G	4.6
46	BU	97	ASP	4.6
31	DA	279	C	4.6
38	BI	73	GLU	4.6
15	AO	63	ARG	4.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
6	CF	6	VAL	4.6
4	CD	151	LYS	4.6
28	B6	41	PRO	4.6
23	D1	60	PHE	4.6
50	BY	83	THR	4.6
33	BD	262	ARG	4.6
37	BH	62	LYS	4.5
41	BP	108	LYS	4.5
47	DV	76	LYS	4.5
50	BY	33	LYS	4.5
50	BY	88	LYS	4.5
34	BE	195	LEU	4.5
5	AE	89	ILE	4.5
38	BI	111	PRO	4.5
38	DI	134	PRO	4.5
23	B1	26	ARG	4.5
26	D4	10	VAL	4.5
31	BA	1052	C	4.5
32	BB	4	C	4.5
32	BB	117	G	4.5
16	AP	9	PHE	4.5
10	AJ	58	ASP	4.5
23	D1	15	ALA	4.5
28	B6	12	GLU	4.5
44	DS	72	ALA	4.5
3	CC	4	LYS	4.5
44	BS	76	LYS	4.5
49	BX	33	LYS	4.5
2	AB	11	LEU	4.5
38	DI	106	GLY	4.5
38	BI	120	ILE	4.5
41	BP	76	LYS	4.5
46	BU	60	LEU	4.5
47	BV	51	VAL	4.5
34	BE	54	GLN	4.5
51	BZ	80	ARG	4.5
33	BD	26	LYS	4.5
38	DI	94	ALA	4.5
32	BB	90	A	4.5
51	DZ	98	MET	4.5
38	DI	109	ILE	4.5
20	AT	80	ARG	4.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	DG	41	GLN	4.5
45	BT	118	ARG	4.5
50	DY	50	ARG	4.5
3	AC	193	TYR	4.5
49	BX	77	LYS	4.5
47	BV	57	VAL	4.4
1	CA	805	C	4.4
3	CC	2	GLY	4.4
31	BA	2477	C	4.4
38	BI	67	ARG	4.4
50	BY	28	LYS	4.4
4	CD	152	SER	4.4
1	AA	1001(A)	G	4.4
6	CF	90	VAL	4.4
32	DB	54	G	4.4
3	AC	158	GLY	4.4
50	BY	60	PHE	4.4
4	AD	160	GLN	4.4
28	D6	39	TYR	4.4
38	DI	75	LEU	4.4
2	CB	80	ILE	4.4
2	CB	214	ILE	4.4
24	B2	14	ARG	4.4
39	BN	139	GLU	4.4
50	BY	2	ARG	4.4
7	AG	82	GLY	4.4
31	BA	1107	G	4.4
32	BB	24	G	4.4
35	DF	33	LEU	4.4
39	BN	18	ALA	4.4
37	BH	113	VAL	4.4
1	CA	344	A	4.4
44	BS	107	GLU	4.4
28	B6	23	THR	4.4
18	CR	34	TYR	4.4
51	DZ	55	HIS	4.4
1	CA	1286	A	4.4
38	BI	7	GLU	4.4
44	DS	108	GLY	4.4
45	DT	105	LEU	4.3
50	BY	5	MET	4.3
7	CG	4	ARG	4.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
45	BT	45	PHE	4.3
4	CD	7	PRO	4.3
16	CP	15	PRO	4.3
1	CA	1183	A	4.3
32	DB	91	C	4.3
49	DX	4	ALA	4.3
4	AD	67	ILE	4.3
16	CP	13	HIS	4.3
38	DI	91	SER	4.3
38	DI	65	ALA	4.3
44	DS	15	ARG	4.3
50	BY	86	ARG	4.3
39	BN	69	GLN	4.3
9	CI	114	TYR	4.3
9	CI	115	GLY	4.3
33	DD	273	ARG	4.3
44	BS	30	ARG	4.3
46	BU	58	ARG	4.3
11	AK	94	ALA	4.3
50	BY	100	ALA	4.3
26	D4	5	ILE	4.3
26	D4	31	ILE	4.3
46	DU	97	ASP	4.3
20	AT	84	LEU	4.3
1	AA	91	C	4.3
21	AU	15	ARG	4.3
45	DT	36	GLU	4.3
47	BV	22	VAL	4.3
39	BN	3	THR	4.3
43	DR	71	GLN	4.3
24	B2	55	ARG	4.2
32	DB	30	C	4.2
7	AG	37	ASN	4.2
24	D2	41	ILE	4.2
31	DA	2796	U	4.2
38	BI	90	GLY	4.2
38	DI	101	LEU	4.2
4	CD	122	ARG	4.2
13	CM	27	LYS	4.2
24	B2	33	MET	4.2
46	DU	19	LYS	4.2
12	AL	101	VAL	4.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
14	CN	14	PRO	4.2
49	BX	11	PRO	4.2
43	DR	11	ASN	4.2
41	DP	45	LEU	4.2
10	AJ	46	ARG	4.2
31	BA	10	G	4.2
44	DS	90	GLY	4.2
51	BZ	113	ALA	4.2
39	BN	73	THR	4.2
5	CE	43	LEU	4.2
36	DG	152	LEU	4.2
49	DX	26	TYR	4.2
49	BX	35	THR	4.2
15	CO	48	LYS	4.2
47	BV	68	LYS	4.2
2	CB	241	GLU	4.2
31	BA	34	C	4.2
44	DS	21	THR	4.2
50	BY	63	LYS	4.2
44	BS	27	SER	4.1
3	CC	31	HIS	4.1
28	D6	13	CYS	4.1
7	AG	33	ASP	4.1
41	BP	65	ARG	4.1
16	CP	12	LYS	4.1
17	CQ	22	LEU	4.1
36	BG	43	LEU	4.1
47	BV	19	LYS	4.1
5	AE	20	GLN	4.1
10	AJ	59	SER	4.1
36	DG	28	VAL	4.1
1	AA	1233	G	4.1
31	DA	656	G	4.1
33	BD	268	ARG	4.1
18	AR	40	LEU	4.1
26	B4	28	LYS	4.1
1	CA	1001	A	4.1
45	BT	1	MET	4.1
1	AA	1025	U	4.1
31	DA	362	U	4.1
1	CA	1129	C	4.1
9	AI	102	LEU	4.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	BG	13	GLU	4.1
31	DA	1154	G	4.1
32	BB	118	G	4.1
9	AI	115	GLY	4.1
9	CI	43	ALA	4.1
31	BA	1544	A	4.1
34	BE	19	ARG	4.1
37	BH	154	PRO	4.1
46	DU	22	LYS	4.1
46	BU	89	GLU	4.1
4	AD	3	ARG	4.1
45	DT	32	TYR	4.1
2	CB	232	PRO	4.1
31	DA	275	G	4.1
9	AI	18	PHE	4.1
13	AM	45	VAL	4.0
37	DH	43	VAL	4.0
45	DT	25	GLY	4.0
45	DT	40	THR	4.0
30	B8	29	LYS	4.0
13	CM	4	ILE	4.0
23	D1	58	ILE	4.0
7	AG	38	LEU	4.0
38	DI	123	LEU	4.0
2	AB	163	PHE	4.0
1	CA	973	G	4.0
31	BA	656	G	4.0
38	DI	107	VAL	4.0
3	AC	15	THR	4.0
7	AG	78	ARG	4.0
45	BT	85	LYS	4.0
9	AI	81	ILE	4.0
2	CB	11	LEU	4.0
3	AC	183	ASP	4.0
10	CJ	58	ASP	4.0
47	BV	81	TYR	4.0
16	AP	65	GLN	4.0
13	AM	27	LYS	4.0
22	B0	41	ARG	4.0
27	D5	19	ARG	4.0
37	BH	153	LYS	4.0
44	BS	93	LYS	4.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	DX	73	ARG	4.0
46	DU	88	ILE	4.0
37	BH	105	LEU	4.0
37	DH	64	LEU	4.0
1	CA	1001(A)	G	4.0
24	D2	55	ARG	4.0
29	D7	48	LYS	4.0
41	BP	41	ARG	4.0
46	DU	93	LYS	4.0
36	DG	101	ILE	4.0
38	DI	59	ALA	4.0
2	CB	81	VAL	4.0
9	CI	12	GLU	4.0
18	CR	76	LEU	4.0
34	BE	77	ILE	4.0
50	BY	66	PRO	4.0
28	B6	21	TYR	3.9
45	DT	85	LYS	3.9
21	CU	2	GLY	3.9
31	DA	2660	A	3.9
36	DG	154	GLY	3.9
37	BH	48	GLY	3.9
46	BU	118	GLY	3.9
3	AC	175	LEU	3.9
8	CH	2	LEU	3.9
11	CK	63	LEU	3.9
24	D2	35	LEU	3.9
12	CL	73	GLU	3.9
31	DA	897	C	3.9
51	DZ	99	TYR	3.9
41	DP	79	ARG	3.9
7	AG	2	ALA	3.9
38	DI	117	GLU	3.9
9	AI	127	LYS	3.9
47	BV	87	HIS	3.9
1	CA	962	C	3.9
5	CE	31	LEU	3.9
36	DG	35	GLU	3.9
6	CF	60	PHE	3.9
20	CT	9	ASN	3.9
28	B6	11	LEU	3.9
45	BT	25	GLY	3.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	CP	48	TRP	3.9
31	BA	2794	C	3.9
31	BA	2799	C	3.9
1	CA	1003	G	3.9
12	CL	119	LYS	3.9
23	B1	33	LYS	3.9
37	BH	58	GLU	3.9
44	DS	20	ARG	3.9
35	BF	126	VAL	3.9
44	BS	94	TYR	3.9
3	AC	200	ALA	3.9
33	BD	272	ALA	3.9
2	CB	179	LYS	3.9
23	B1	91	LYS	3.9
7	AG	156	TRP	3.9
43	DR	104	ARG	3.9
31	BA	271(Z)	C	3.8
44	BS	65	VAL	3.8
47	BV	37	VAL	3.8
20	CT	75	ASN	3.8
45	DT	2	ASN	3.8
38	DI	140	LEU	3.8
39	BN	78	TYR	3.8
49	BX	69	TYR	3.8
1	CA	950	U	3.8
23	B1	19	GLN	3.8
13	CM	104	ARG	3.8
24	B2	30	ARG	3.8
24	B2	51	ARG	3.8
8	CH	101	PRO	3.8
9	CI	109	VAL	3.8
9	AI	7	THR	3.8
45	BT	32	TYR	3.8
1	CA	1363	C	3.8
2	CB	13	ALA	3.8
33	DD	38	LYS	3.8
24	B2	59	ARG	3.8
31	DA	2104	G	3.8
4	CD	24	GLU	3.8
19	CS	27	GLU	3.8
2	AB	102	LEU	3.8
8	AH	3	THR	3.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
6	CF	4	TYR	3.8
36	BG	88	ILE	3.8
51	DZ	52	SER	3.8
33	DD	217	ARG	3.8
50	BY	57	GLN	3.8
31	DA	1532	C	3.8
12	CL	71	PRO	3.8
31	DA	1108	U	3.8
47	BV	50	PRO	3.8
38	BI	96	ASP	3.8
19	AS	40	ILE	3.8
23	B1	10	LYS	3.8
31	BA	2100	G	3.8
36	BG	165	THR	3.8
44	DS	57	LYS	3.8
36	DG	96	ARG	3.8
28	B6	26	ASN	3.8
44	BS	16	ASN	3.8
30	B8	48	PHE	3.8
8	AH	2	LEU	3.8
34	BE	78	LEU	3.8
37	BH	29	PRO	3.8
11	CK	32	ILE	3.8
29	D7	2	LYS	3.8
38	BI	112	LYS	3.8
49	BX	50	LYS	3.8
50	DY	44	ILE	3.8
51	BZ	148	ASP	3.8
36	BG	131	TYR	3.8
44	BS	36	TYR	3.8
46	DU	113	ALA	3.8
16	CP	11	SER	3.7
38	BI	139	GLN	3.7
1	CA	1447	A	3.7
24	D2	32	LEU	3.7
47	BV	71	LEU	3.7
2	AB	147	LYS	3.7
33	DD	255	LYS	3.7
44	BS	62	LYS	3.7
2	AB	80	ILE	3.7
41	BP	7	ARG	3.7
47	BV	60	GLU	3.7

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	AA	1260	C	3.7
24	B2	62	THR	3.7
4	CD	160	GLN	3.7
36	DG	117	PHE	3.7
38	BI	35	LEU	3.7
47	DV	62	LEU	3.7
20	CT	38	LYS	3.7
24	D2	50	ILE	3.7
33	DD	268	ARG	3.7
50	DY	86	ARG	3.7
1	CA	1224	G	3.7
31	DA	274	G	3.7
13	CM	5	ALA	3.7
9	CI	62	TYR	3.7
7	AG	17	VAL	3.7
20	CT	10	LEU	3.7
22	D0	75	LEU	3.7
25	D3	26	LEU	3.7
31	DA	2402	C	3.7
28	D6	20	ASN	3.7
24	D2	51	ARG	3.7
43	DR	105	ARG	3.7
45	BT	95	ARG	3.7
15	AO	87	ILE	3.7
13	CM	43	THR	3.7
45	DT	17	THR	3.7
33	BD	33	LEU	3.7
2	AB	36	ARG	3.7
4	CD	209	ARG	3.7
37	BH	84	SER	3.7
50	DY	97	ARG	3.7
47	BV	28	GLU	3.7
3	AC	201	TYR	3.7
36	BG	36	LYS	3.7
36	BG	64	THR	3.7
37	BH	157	TYR	3.7
38	DI	105	HIS	3.7
37	BH	143	GLN	3.7
14	CN	42	ILE	3.7
24	D2	47	ASN	3.7
31	BA	1959	G	3.7
1	AA	1363	C	3.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	DA	1124	C	3.6
32	DB	31	C	3.6
23	D1	33	LYS	3.6
41	DP	17	LYS	3.6
43	BR	9	LYS	3.6
38	DI	93	THR	3.6
41	DP	85	LEU	3.6
44	DS	92	TYR	3.6
47	BV	40	LEU	3.6
7	AG	23	VAL	3.6
10	AJ	49	VAL	3.6
11	AK	30	VAL	3.6
11	CK	30	VAL	3.6
4	CD	77	ASN	3.6
2	CB	14	GLY	3.6
3	CC	159	GLY	3.6
2	AB	71	VAL	3.6
21	CU	10	ARG	3.6
32	BB	22	U	3.6
44	BS	97	ARG	3.6
9	AI	5	TYR	3.6
42	DQ	21	THR	3.6
48	BW	45	TYR	3.6
1	AA	984	C	3.6
10	AJ	50	ILE	3.6
16	CP	19	ILE	3.6
21	CU	5	ASP	3.6
35	BF	203	GLN	3.6
7	AG	35	LYS	3.6
14	AN	28	GLY	3.6
23	D1	32	LYS	3.6
47	DV	68	LYS	3.6
21	AU	10	ARG	3.6
29	D7	23	ARG	3.6
8	AH	95	VAL	3.6
31	DA	2189	U	3.6
47	DV	70	ILE	3.6
38	DI	111	PRO	3.6
1	CA	347	G	3.6
31	DA	100	G	3.6
46	DU	16	LYS	3.6
20	CT	12	ALA	3.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
21	AU	4	GLY	3.6
36	DG	175	LEU	3.6
37	BH	109	PHE	3.6
47	BV	53	GLU	3.6
31	BA	603	A	3.6
33	DD	64	ILE	3.6
2	AB	212	GLN	3.6
46	BU	15	LYS	3.6
10	CJ	90	LEU	3.6
24	B2	24	LEU	3.6
51	BZ	82	ARG	3.6
36	BG	141	PHE	3.6
44	BS	12	PHE	3.6
44	DS	87	PHE	3.6
31	BA	1114	G	3.6
31	BA	2795	G	3.6
50	BY	85	VAL	3.6
12	CL	56	ALA	3.5
33	BD	273	ARG	3.5
43	DR	2	ARG	3.5
36	BG	19	LEU	3.5
37	BH	71	LEU	3.5
1	AA	921	U	3.5
41	DP	28	GLY	3.5
45	BT	92	GLY	3.5
37	DH	123	PHE	3.5
42	DQ	91	GLU	3.5
1	AA	525	C	3.5
46	DU	15	LYS	3.5
32	DB	89	G	3.5
5	AE	94	ALA	3.5
20	AT	10	LEU	3.5
1	AA	1001	A	3.5
2	AB	220	ASP	3.5
7	AG	20	ASP	3.5
36	BG	28	VAL	3.5
13	AM	32	GLU	3.5
36	BG	14	GLU	3.5
38	DI	95	LYS	3.5
36	BG	93	THR	3.5
24	B2	13	ALA	3.5
31	DA	1052	C	3.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	BH	156	ALA	3.5
44	BS	108	GLY	3.5
16	AP	68	ASP	3.5
37	BH	57	ASP	3.5
2	AB	201	ILE	3.5
35	DF	107	LYS	3.5
36	BG	77	ILE	3.5
36	BG	105	LYS	3.5
41	BP	139	LYS	3.5
31	BA	2801	A	3.5
34	BE	61	ARG	3.5
42	BQ	137	TYR	3.5
4	AD	157	LEU	3.5
24	B2	16	LEU	3.5
35	BF	156	LEU	3.5
38	BI	68	LEU	3.5
44	DS	56	LEU	3.5
36	BG	163	ALA	3.5
8	AH	93	VAL	3.5
44	DS	22	GLY	3.5
51	BZ	143	GLY	3.5
4	CD	158	ILE	3.5
5	AE	18	ARG	3.5
9	CI	9	ARG	3.5
47	DV	60	GLU	3.5
5	CE	53	LEU	3.5
7	AG	84	ASN	3.5
15	AO	57	LEU	3.5
31	DA	1125	G	3.5
36	BG	112	PRO	3.5
51	BZ	176	PRO	3.5
31	BA	1050	A	3.5
44	DS	100	ALA	3.5
35	BF	199	TRP	3.5
42	BQ	102	VAL	3.5
50	DY	85	VAL	3.5
38	DI	104	GLN	3.5
45	BT	113	LYS	3.5
2	AB	58	ILE	3.5
5	AE	76	ILE	3.5
7	AG	79	ARG	3.5
46	DU	58	ARG	3.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	DA	1531	C	3.4
13	CM	7	VAL	3.4
37	BH	43	VAL	3.4
42	DQ	90	VAL	3.4
50	BY	3	VAL	3.4
43	BR	7	GLY	3.4
44	DS	109	GLY	3.4
45	BT	56	GLY	3.4
1	AA	306	G	3.4
1	AA	1094	G	3.4
31	BA	1110	G	3.4
31	BA	1174	A	3.4
31	DA	2629	A	3.4
41	BP	14	LYS	3.4
41	BP	86	LYS	3.4
42	BQ	16	ARG	3.4
6	AF	15	ASP	3.4
20	CT	24	LEU	3.4
8	AH	1	MET	3.4
6	AF	90	VAL	3.4
28	B6	13	CYS	3.4
51	BZ	149	SER	3.4
38	BI	81	VAL	3.4
51	DZ	165	VAL	3.4
31	DA	34	C	3.4
32	BB	27	C	3.4
6	AF	26	ILE	3.4
14	AN	41	ARG	3.4
21	AU	6	ARG	3.4
50	BY	96	ILE	3.4
51	DZ	171	ILE	3.4
33	DD	33	LEU	3.4
44	DS	32	LEU	3.4
1	AA	1156	G	3.4
1	AA	1224	G	3.4
31	BA	1413	G	3.4
31	DA	272(B)	G	3.4
31	DA	1529	G	3.4
4	CD	81	GLU	3.4
30	B8	31	HIS	3.4
42	DQ	80	GLU	3.4
43	DR	9	LYS	3.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	DZ	42	VAL	3.4
11	CK	129	SER	3.4
19	AS	39	THR	3.4
10	CJ	50	ILE	3.4
37	BH	69	ARG	3.4
37	BH	151	ILE	3.4
44	BS	20	ARG	3.4
1	AA	924	C	3.4
1	CA	931	C	3.4
38	BI	77	LEU	3.4
36	BG	143	GLU	3.4
41	BP	23	PRO	3.4
47	BV	72	VAL	3.4
49	DX	31	HIS	3.4
10	CJ	89	ASP	3.4
16	CP	9	PHE	3.4
50	BY	42	VAL	3.4
16	AP	71	ARG	3.4
17	CQ	25	ARG	3.4
48	DW	92	ARG	3.4
1	AA	105	G	3.4
1	AA	524	G	3.4
31	BA	272(B)	G	3.4
46	BU	88	ILE	3.4
4	AD	9	CYS	3.4
4	AD	42	GLN	3.4
2	CB	213	LEU	3.4
7	AG	16	LEU	3.4
7	AG	22	LEU	3.4
15	AO	59	MET	3.4
20	AT	74	LYS	3.4
23	B1	78	LYS	3.4
50	DY	95	LYS	3.4
24	D2	13	ALA	3.4
9	CI	41	VAL	3.4
13	AM	21	TYR	3.4
37	BH	83	TYR	3.4
3	AC	185	GLY	3.4
35	DF	131	GLY	3.4
39	BN	74	ARG	3.4
44	BS	22	GLY	3.4
32	DB	90	A	3.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	DG	66	GLN	3.3
1	AA	1120	G	3.3
1	AA	1131	G	3.3
46	BU	8	VAL	3.3
9	AI	128	ARG	3.3
25	B3	30	ARG	3.3
36	BG	45	GLU	3.3
37	DH	158	HIS	3.3
41	DP	74	GLU	3.3
44	DS	34	HIS	3.3
38	BI	71	ILE	3.3
1	CA	961	U	3.3
34	BE	17	ASP	3.3
36	DG	64	THR	3.3
38	DI	78	THR	3.3
17	AQ	43	LEU	3.3
39	DN	67	LEU	3.3
1	AA	1130	A	3.3
17	AQ	100	LYS	3.3
23	B1	32	LYS	3.3
12	CL	32	PHE	3.3
36	BG	115	ARG	3.3
51	DZ	88	PHE	3.3
19	AS	68	GLY	3.3
1	CA	1185	G	3.3
21	AU	21	TYR	3.3
36	DG	63	ILE	3.3
31	BA	2751	G	3.3
31	DA	11	G	3.3
36	BG	100	TRP	3.3
1	AA	1382	C	3.3
1	CA	1223	C	3.3
31	DA	2799	C	3.3
39	DN	115	ARG	3.3
1	AA	344	A	3.3
19	CS	76	PRO	3.3
30	B8	63	PRO	3.3
50	BY	74	PRO	3.3
10	AJ	52	GLY	3.3
2	CB	10	LEU	3.3
2	CB	51	LEU	3.3
3	AC	42	LEU	3.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	D4	9	LEU	3.3
44	BS	32	LEU	3.3
11	AK	127	LYS	3.3
23	D1	10	LYS	3.3
18	AR	30	ASP	3.3
1	AA	80	G	3.3
11	AK	43	SER	3.3
23	D1	19	GLN	3.3
31	DA	363	G	3.3
31	DA	2190	G	3.3
14	CN	48	ALA	3.3
28	D6	26	ASN	3.3
46	DU	90	VAL	3.3
50	DY	27	VAL	3.3
1	CA	930	C	3.3
1	CA	1235	U	3.3
31	BA	12	U	3.3
32	BB	91	C	3.3
47	DV	75	PHE	3.3
34	DE	56	PRO	3.3
38	DI	71	ILE	3.3
4	AD	135	LEU	3.3
37	BH	116	GLU	3.3
43	DR	10	LEU	3.3
44	BS	11	LYS	3.3
11	AK	42	TRP	3.3
22	B0	55	ARG	3.3
22	D0	41	ARG	3.3
36	BG	109	VAL	3.3
6	AF	60	PHE	3.3
3	AC	174	PRO	3.3
27	B5	49	CYS	3.3
31	DA	271(L)	U	3.3
36	BG	65	GLY	3.3
1	AA	158	G	3.3
1	AA	1386	G	3.3
1	CA	1139	G	3.3
20	AT	16	HIS	3.3
1	AA	345	C	3.2
30	B8	21	LYS	3.2
31	BA	271(I)	G	3.3
32	DB	18	G	3.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	DA	2188	C	3.2
38	DI	62	LYS	3.2
41	BP	27	HIS	3.3
41	DP	108	LYS	3.2
45	BT	105	LEU	3.3
2	CB	236	TYR	3.2
38	BI	89	TYR	3.2
47	DV	53	GLU	3.2
23	D1	40	ARG	3.2
29	B7	47	ARG	3.2
5	CE	33	VAL	3.2
36	BG	70	VAL	3.2
5	AE	21	ALA	3.2
9	AI	52	ALA	3.2
11	AK	128	ALA	3.2
23	B1	64	ALA	3.2
33	BD	20	ASP	3.2
39	BN	131	GLN	3.2
49	BX	34	ALA	3.2
13	AM	4	ILE	3.2
35	BF	25	PRO	3.2
37	BH	16	SER	3.2
16	AP	37	GLY	3.2
2	AB	21	ARG	3.2
30	D8	46	ARG	3.2
44	BS	13	ARG	3.2
45	BT	39	ARG	3.2
45	DT	115	ARG	3.2
31	BA	2402	C	3.2
1	CA	1026	G	3.2
2	AB	186	ALA	3.2
3	CC	169	ALA	3.2
7	CG	7	ALA	3.2
36	BG	41	GLN	3.2
14	AN	7	ILE	3.2
33	DD	94	LEU	3.2
41	DP	26	GLY	3.2
2	CB	137	ARG	3.2
4	AD	31	CYS	3.2
7	CG	8	GLU	3.2
16	AP	17	TYR	3.2
16	AP	18	ARG	3.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
17	AQ	96	GLU	3.2
41	DP	65	ARG	3.2
46	BU	59	ARG	3.2
1	CA	1150	U	3.2
31	BA	860	U	3.2
20	CT	106	ALA	3.2
38	BI	93	THR	3.2
19	CS	71	LEU	3.2
31	BA	2188	C	3.2
33	BD	236	GLY	3.2
2	AB	217	ARG	3.2
17	CQ	58	GLU	3.2
37	DH	50	VAL	3.2
2	CB	163	PHE	3.2
31	BA	90	U	3.2
35	BF	206	ILE	3.2
36	DG	103	LEU	3.2
30	D8	43	GLN	3.2
24	D2	26	ARG	3.2
34	BE	101	ARG	3.2
38	DI	27	ARG	3.2
1	AA	754	C	3.2
31	BA	2658	C	3.2
5	AE	19	MET	3.2
35	BF	7	TYR	3.2
34	BE	75	VAL	3.2
31	BA	1740	G	3.2
31	DA	1413	G	3.2
31	DA	2751	G	3.2
4	AD	12	CYS	3.2
36	BG	75	LYS	3.2
38	BI	65	ALA	3.2
39	BN	37	LYS	3.2
50	BY	8	LYS	3.2
3	CC	124	ILE	3.2
46	BU	64	ARG	3.1
25	D3	17	LYS	3.1
28	B6	35	GLU	3.1
42	DQ	89	ASN	3.1
50	DY	47	LYS	3.1
10	CJ	47	PHE	3.1
36	DG	171	ALA	3.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
24	B2	61	LEU	3.1
38	DI	4	ILE	3.1
44	BS	35	ILE	3.1
31	DA	281	G	3.1
31	DA	1107	G	3.1
4	CD	134	ASP	3.1
31	BA	271(L)	U	3.1
36	BG	92	VAL	3.1
50	DY	51	VAL	3.1
3	CC	29	TYR	3.1
43	DR	6	SER	3.1
4	AD	93	PHE	3.1
7	AG	39	ALA	3.1
13	AM	67	GLU	3.1
10	AJ	90	LEU	3.1
38	BI	44	LEU	3.1
50	BY	90	LEU	3.1
11	AK	108	ILE	3.1
14	CN	12	ARG	3.1
22	D0	44	ARG	3.1
41	DP	41	ARG	3.1
45	BT	27	THR	3.1
17	CQ	47	PRO	3.1
31	DA	790	C	3.1
19	CS	82	GLY	3.1
36	DG	129	GLY	3.1
31	DA	1032	A	3.1
41	DP	76	LYS	3.1
42	DQ	77	LYS	3.1
37	BH	17	VAL	3.1
31	DA	1414	G	3.1
31	DA	2655	G	3.1
41	BP	87	ASP	3.1
48	BW	46	PHE	3.1
13	AM	87	TYR	3.1
16	CP	17	TYR	3.1
38	DI	44	LEU	3.1
47	BV	38	LEU	3.1
1	AA	84	U	3.1
8	CH	3	THR	3.1
11	CK	31	THR	3.1
17	AQ	28	PRO	3.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	BZ	177	PRO	3.1
8	AH	55	GLY	3.1
15	AO	62	GLN	3.1
34	DE	145	LYS	3.1
39	BN	109	LYS	3.1
42	BQ	83	MET	3.1
46	BU	54	LYS	3.1
11	AK	82	VAL	3.1
31	BA	2474	C	3.1
31	DA	1505	C	3.1
44	BS	28	VAL	3.1
10	CJ	88	LEU	3.1
13	CM	56	LEU	3.1
18	CR	67	ALA	3.1
20	CT	84	LEU	3.1
23	B1	85	LEU	3.1
31	DA	911	A	3.1
34	DE	187	ALA	3.1
36	BG	3	LEU	3.1
2	AB	41	ILE	3.1
10	CJ	17	ASP	3.1
46	BU	56	ASP	3.1
4	AD	208	SER	3.1
9	AI	126	SER	3.1
37	BH	47	GLU	3.1
6	CF	84	ASN	3.1
13	AM	63	THR	3.1
31	DA	2659	G	3.1
47	BV	90	PRO	3.1
47	BV	92	THR	3.1
27	D5	10	LYS	3.1
49	BX	82	GLN	3.1
9	CI	108	VAL	3.1
44	DS	101	LEU	3.1
4	AD	32	ALA	3.1
9	CI	107	ARG	3.1
4	CD	4	TYR	3.1
31	BA	2313	C	3.1
24	B2	52	ASP	3.0
25	B3	38	GLU	3.0
28	B6	24	GLU	3.0
1	AA	1157	A	3.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
32	DB	53	A	3.0
35	DF	13	SER	3.0
9	AI	72	GLY	3.0
20	AT	103	GLY	3.0
36	BG	130	ASN	3.0
27	D5	9	LYS	3.0
38	BI	69	LYS	3.0
41	BP	17	LYS	3.0
50	DY	10	GLY	3.0
23	D1	95	LEU	3.0
34	BE	63	LEU	3.0
35	BF	140	LEU	3.0
1	AA	1003	G	3.0
1	CA	220	G	3.0
23	D1	26	ARG	3.0
45	BT	29	ARG	3.0
24	B2	58	ALA	3.0
26	D4	12	ALA	3.0
35	DF	130	ALA	3.0
45	BT	50	ILE	3.0
46	BU	4	ALA	3.0
17	CQ	13	ASP	3.0
33	BD	171	ASP	3.0
21	AU	25	LYS	3.0
37	BH	138	LYS	3.0
1	AA	1129	C	3.0
1	CA	1352	C	3.0
44	BS	53	SER	3.0
37	DH	106	THR	3.0
38	BI	92	VAL	3.0
4	CD	115	ARG	3.0
9	CI	47	LEU	3.0
15	AO	64	ARG	3.0
35	DF	32	LEU	3.0
37	BH	67	LEU	3.0
41	BP	68	GLN	3.0
41	DP	15	ARG	3.0
45	DT	108	ARG	3.0
1	AA	884	U	3.0
7	AG	40	ALA	3.0
11	CK	29	ILE	3.0
24	B2	57	ILE	3.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	B5	36	CYS	3.0
38	DI	53	ALA	3.0
9	AI	114	TYR	3.0
46	DU	89	GLU	3.0
1	AA	1331	G	3.0
1	AA	1355	G	3.0
16	CP	41	PRO	3.0
32	BB	89	G	3.0
34	BE	126	PRO	3.0
36	DG	24	GLY	3.0
17	AQ	99	SER	3.0
3	CC	3	ASN	3.0
4	AD	161	ASN	3.0
14	AN	18	VAL	3.0
23	D1	51	VAL	3.0
33	DD	34	VAL	3.0
20	AT	104	LEU	3.0
43	BR	10	LEU	3.0
46	DU	59	ARG	3.0
16	CP	65	GLN	3.0
1	AA	573	A	3.0
24	B2	41	ILE	3.0
31	DA	910	A	3.0
32	BB	53	A	3.0
51	BZ	124	ILE	3.0
2	AB	132	LYS	3.0
20	CT	39	LYS	3.0
32	DB	22	U	3.0
28	B6	15	GLU	3.0
7	CG	34	GLY	3.0
12	CL	29	GLY	3.0
38	DI	8	PRO	3.0
5	AE	82	VAL	3.0
9	CI	66	ARG	3.0
15	AO	88	ARG	3.0
15	CO	11	VAL	3.0
29	B7	45	ALA	3.0
32	BB	51	G	3.0
44	BS	18	ILE	3.0
7	CG	35	LYS	3.0
50	BY	19	LYS	3.0
1	CA	88	A	3.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	DH	94	TYR	3.0
13	CM	100	GLY	3.0
37	BH	12	PRO	3.0
37	BH	28	GLY	3.0
38	DI	64	GLU	3.0
41	BP	22	GLY	3.0
23	D1	30	VAL	3.0
26	B4	21	VAL	3.0
38	BI	9	LEU	3.0
38	DI	128	LEU	3.0
49	BX	66	LEU	3.0
19	AS	12	ASP	3.0
4	AD	113	SER	3.0
23	B1	13	ILE	3.0
34	DE	81	ILE	3.0
36	BG	20	ILE	3.0
41	BP	9	ASN	3.0
4	AD	116	GLN	2.9
17	AQ	40	LYS	2.9
42	DQ	12	GLN	2.9
30	D8	31	HIS	2.9
1	AA	324	G	2.9
1	CA	189(G)	G	2.9
6	AF	63	TYR	2.9
12	AL	98	TYR	2.9
15	CO	2	PRO	2.9
22	D0	1	MET	2.9
33	DD	246	PRO	2.9
34	DE	79	ARG	2.9
41	BP	122	PRO	2.9
42	DQ	16	ARG	2.9
47	DV	21	ARG	2.9
51	BZ	28	MET	2.9
1	AA	187	C	2.9
1	CA	345	C	2.9
4	AD	120	LEU	2.9
31	BA	1914	C	2.9
37	BH	76	VAL	2.9
31	BA	2629	A	2.9
36	BG	125	PHE	2.9
7	CG	30	ILE	2.9
16	CP	68	ASP	2.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	BX	75	ASP	2.9
20	CT	82	SER	2.9
34	BE	152	LYS	2.9
44	BS	99	LYS	2.9
36	BG	138	GLN	2.9
15	AO	58	MET	2.9
47	BV	21	ARG	2.9
21	CU	16	GLY	2.9
36	BG	25	TYR	2.9
44	DS	36	TYR	2.9
19	AS	20	LEU	2.9
34	BE	53	PRO	2.9
20	AT	29	LYS	2.9
33	DD	5	LYS	2.9
50	BY	26	LYS	2.9
1	AA	218	C	2.9
11	AK	60	ALA	2.9
20	AT	106	ALA	2.9
30	D8	55	ALA	2.9
31	BA	1958	C	2.9
1	AA	59	A	2.9
31	DA	90	U	2.9
31	DA	829	A	2.9
11	AK	129	SER	2.9
31	DA	1026	U	2.9
51	BZ	166	SER	2.9
3	AC	16	ARG	2.9
15	AO	31	LEU	2.9
13	CM	87	TYR	2.9
19	CS	9	VAL	2.9
47	BV	94	LEU	2.9
37	DH	29	PRO	2.9
51	BZ	174	VAL	2.9
19	CS	10	PHE	2.9
34	DE	69	LYS	2.9
42	BQ	130	LYS	2.9
50	BY	99	CYS	2.9
3	CC	149	ALA	2.9
49	BX	27	THR	2.9
3	CC	30	ARG	2.9
9	AI	83	ARG	2.9
51	BZ	81	ARG	2.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	AA	949	A	2.9
20	AT	73	HIS	2.9
31	BA	271(C)	C	2.9
45	DT	38	ASN	2.9
11	AK	98	LEU	2.9
18	AR	79	LEU	2.9
31	BA	651	G	2.9
35	DF	12	LEU	2.9
36	BG	111	LEU	2.9
36	DG	111	LEU	2.9
38	DI	77	LEU	2.9
47	BV	35	LEU	2.9
11	CK	50	TYR	2.9
16	CP	39	TYR	2.9
17	CQ	17	LYS	2.9
20	CT	87	LYS	2.9
6	CF	26	ILE	2.9
28	D6	12	GLU	2.9
30	B8	16	ILE	2.9
36	DG	18	GLU	2.9
51	DZ	168	GLU	2.9
14	CN	30	ALA	2.9
37	DH	156	ALA	2.9
2	AB	216	SER	2.9
7	AG	31	MET	2.9
18	AR	31	LEU	2.9
40	BO	122	LEU	2.9
41	DP	42	SER	2.9
34	BE	159	HIS	2.9
47	DV	71	LEU	2.9
51	BZ	125	LEU	2.9
3	AC	2	GLY	2.9
37	BH	45	VAL	2.9
44	DS	16	ASN	2.9
12	CL	47	LYS	2.9
36	BG	17	PRO	2.9
44	DS	19	LYS	2.9
44	DS	99	LYS	2.9
49	DX	72	LYS	2.9
1	AA	950	U	2.9
1	AA	1364	U	2.9
1	AA	526	C	2.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	CA	1201	A	2.9
12	CL	120	TYR	2.9
31	DA	1530	C	2.9
32	BB	6	C	2.9
19	CS	31	ILE	2.9
1	AA	1197	G	2.8
12	AL	129	ALA	2.8
16	AP	7	ALA	2.8
22	B0	2	ALA	2.8
31	BA	1044	G	2.8
41	BP	150	ALA	2.8
13	AM	88	ARG	2.8
41	DP	7	ARG	2.8
10	CJ	15	THR	2.8
4	CD	120	LEU	2.8
15	AO	34	LEU	2.8
19	AS	15	LEU	2.8
24	D2	60	LEU	2.8
25	B3	1	MET	2.8
36	DG	3	LEU	2.8
33	DD	66	ASP	2.8
38	BI	127	VAL	2.8
38	BI	142	VAL	2.8
49	BX	6	ASP	2.8
11	CK	24	SER	2.8
23	B1	86	SER	2.8
51	BZ	12	GLY	2.8
22	B0	12	ASN	2.8
41	BP	8	PRO	2.8
3	CC	186	PHE	2.8
14	CN	61	TRP	2.8
44	DS	94	TYR	2.8
5	AE	81	GLU	2.8
6	AF	24	GLU	2.8
30	D8	56	GLU	2.8
31	BA	2449	U	2.8
36	DG	46	ALA	2.8
37	BH	46	GLU	2.8
40	DO	41	ALA	2.8
50	DY	62	GLU	2.8
1	CA	977	A	2.8
31	BA	363(F)	A	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	BA	2602	A	2.8
31	BA	2803	C	2.8
31	DA	1544	A	2.8
33	BD	40	THR	2.8
39	DN	3	THR	2.8
1	AA	93	G	2.8
1	AA	108	G	2.8
1	AA	971	G	2.8
1	CA	79	G	2.8
2	CB	7	VAL	2.8
4	AD	151	LYS	2.8
20	AT	65	LYS	2.8
24	B2	56	GLN	2.8
29	B7	46	VAL	2.8
31	BA	1414	G	2.8
31	DA	932	G	2.8
37	BH	139	GLN	2.8
47	BV	11	GLN	2.8
51	BZ	74	VAL	2.8
37	DH	22	GLY	2.8
48	BW	63	ASP	2.8
33	BD	6	PHE	2.8
37	BH	136	ILE	2.8
35	DF	199	TRP	2.8
9	AI	82	ALA	2.8
3	AC	161	GLU	2.8
40	BO	108	GLU	2.8
1	CA	1126	U	2.8
8	AH	133	LEU	2.8
18	CR	31	LEU	2.8
27	B5	58	LEU	2.8
51	BZ	144	LEU	2.8
5	CE	121	LYS	2.8
33	BD	35	LYS	2.8
51	BZ	36	LYS	2.8
13	CM	105	THR	2.8
1	AA	574	A	2.8
1	AA	1018	C	2.8
1	AA	1287	A	2.8
1	CA	968	A	2.8
25	B3	9	VAL	2.8
31	BA	271(A)	A	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	DA	2666	C	2.8
47	BV	58	VAL	2.8
37	DH	36	PRO	2.8
44	BS	87	PHE	2.8
23	D1	52	ARG	2.8
1	CA	1036	G	2.8
1	CA	1068	G	2.8
10	AJ	69	ASN	2.8
31	DA	139(A)	G	2.8
36	DG	25	TYR	2.8
40	DO	84	ALA	2.8
44	BS	92	TYR	2.8
51	BZ	20	ARG	2.8
12	CL	16	GLU	2.8
37	BH	32	GLU	2.8
38	DI	7	GLU	2.8
15	AO	81	LEU	2.8
22	D0	5	LYS	2.8
23	B1	94	LEU	2.8
40	DO	113	LYS	2.8
43	DR	5	LYS	2.8
2	CB	15	VAL	2.8
51	BZ	111	VAL	2.8
1	CA	1148	U	2.8
8	AH	66	GLY	2.8
3	CC	162	GLN	2.8
12	CL	94	PRO	2.8
38	BI	79	ILE	2.8
38	DI	138	ILE	2.8
50	BY	82	PRO	2.8
1	CA	974	A	2.8
1	CA	1130	A	2.8
1	CA	188	C	2.8
20	CT	80	ARG	2.8
25	D3	29	ARG	2.8
31	BA	1048	A	2.8
31	BA	2801(A)	A	2.8
31	DA	1050	A	2.8
31	DA	1049	C	2.8
46	BU	52	ARG	2.8
35	DF	113	ALA	2.8
35	DF	172	TRP	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	CB	215	LEU	2.8
17	AQ	24	GLU	2.8
33	BD	4	LYS	2.8
36	BG	164	GLU	2.8
43	BR	5	LYS	2.8
46	BU	22	LYS	2.8
1	AA	951	G	2.8
31	BA	275	G	2.8
32	BB	116	G	2.8
42	BQ	21	THR	2.8
4	CD	35	ARG	2.7
4	CD	42	GLN	2.7
11	CK	22	HIS	2.7
23	B1	40	ARG	2.7
50	BY	89	PHE	2.8
34	BE	74	PRO	2.7
36	BG	32	PRO	2.7
50	BY	53	PRO	2.7
34	DE	204	ALA	2.7
50	BY	65	ALA	2.7
4	CD	137	SER	2.7
10	CJ	57	LYS	2.7
18	AR	41	LYS	2.7
19	AS	35	SER	2.7
37	DH	85	LYS	2.7
8	CH	127	LEU	2.7
34	BE	49	LEU	2.7
1	AA	624	C	2.7
1	AA	1116	C	2.7
31	DA	280	C	2.7
43	BR	11	ASN	2.7
6	CF	89	MET	2.7
41	DP	67	MET	2.7
2	AB	136	VAL	2.7
37	BH	107	VAL	2.7
47	BV	52	VAL	2.7
4	AD	114	ARG	2.7
6	AF	80	ARG	2.7
16	AP	69	THR	2.7
9	CI	18	PHE	2.7
21	CU	24	ARG	2.7
36	DG	141	PHE	2.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
39	BN	71	ILE	2.7
28	D6	46	HIS	2.7
45	DT	90	GLN	2.7
1	CA	1002	G	2.7
5	CE	113	ALA	2.7
23	B1	15	ALA	2.7
31	DA	171	G	2.7
31	DA	1524	G	2.7
32	BB	33	G	2.7
35	DF	26	ALA	2.7
44	BS	37	ALA	2.7
25	B3	17	LYS	2.7
24	B2	60	LEU	2.7
28	D6	34	LEU	2.7
12	AL	118	SER	2.7
23	D1	27	GLU	2.7
37	DH	53	GLU	2.7
39	BN	5	VAL	2.7
50	BY	7	VAL	2.7
1	CA	1280	A	2.7
31	BA	1490	A	2.7
32	BB	48	A	2.7
1	AA	488	C	2.7
30	B8	46	ARG	2.7
31	DA	2755	C	2.7
41	DP	33	ARG	2.7
17	CQ	27	PHE	2.7
48	BW	95	ILE	2.7
47	DV	45	THR	2.7
2	CB	234	PRO	2.7
14	AN	14	PRO	2.7
18	CR	68	LYS	2.7
38	DI	26	ALA	2.7
46	BU	93	LYS	2.7
37	BH	64	LEU	2.7
7	AG	9	VAL	2.7
17	CQ	23	VAL	2.7
1	CA	1364	U	2.7
7	AG	15	ASP	2.7
36	BG	5	VAL	2.7
31	BA	504	U	2.7
28	B6	37	ARG	2.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
32	DB	61	G	2.7
4	AD	5	ILE	2.7
15	AO	3	ILE	2.7
44	DS	39	ILE	2.7
33	BD	67	PHE	2.7
8	AH	74	PRO	2.7
10	AJ	37	PRO	2.7
12	AL	119	LYS	2.7
2	AB	29	ALA	2.7
9	CI	106	ALA	2.7
28	B6	22	ALA	2.7
30	D8	51	ALA	2.7
47	BV	59	ALA	2.7
51	BZ	172	ALA	2.7
1	CA	1128	C	2.7
1	CA	1141	C	2.7
8	CH	119	LEU	2.7
34	BE	183	LEU	2.7
36	DG	107	LEU	2.7
38	BI	123	LEU	2.7
37	BH	164	TYR	2.7
6	CF	65	VAL	2.7
47	BV	14	VAL	2.7
28	B6	19	ARG	2.7
24	B2	22	GLU	2.7
28	D6	51	GLU	2.7
30	D8	65	GLU	2.7
38	DI	41	GLU	2.7
3	CC	152	ILE	2.7
39	BN	49	GLY	2.7
41	BP	51	PHE	2.7
12	AL	47	LYS	2.7
20	AT	81	LYS	2.7
50	BY	47	LYS	2.7
38	BI	32	PRO	2.7
1	AA	391	G	2.7
1	AA	661	G	2.7
1	AA	852	G	2.7
1	AA	1294	G	2.7
6	CF	61	LEU	2.7
31	DA	662	G	2.7
31	DA	2894	G	2.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
32	BB	56	G	2.7
32	BB	86	G	2.7
35	DF	115	ALA	2.7
11	AK	93	GLN	2.7
13	CM	101	GLN	2.7
1	AA	923	A	2.7
31	DA	1847	A	2.7
31	DA	2753	A	2.7
4	CD	20	TYR	2.7
35	DF	36	VAL	2.7
44	BS	98	VAL	2.7
45	DT	72	VAL	2.7
50	BY	24	VAL	2.7
12	AL	102	ARG	2.7
20	AT	17	ARG	2.7
31	DA	271(B)	C	2.7
43	BR	105	ARG	2.7
44	BS	89	ARG	2.7
46	DU	64	ARG	2.7
4	AD	24	GLU	2.6
18	AR	29	PHE	2.6
23	D1	38	SER	2.6
33	DD	22	SER	2.6
51	BZ	84	GLU	2.6
51	DZ	97	GLU	2.6
23	D1	39	LYS	2.6
35	DF	104	LYS	2.6
46	BU	73	GLY	2.6
36	DG	108	ASN	2.6
45	BT	104	ASN	2.6
4	CD	155	LEU	2.6
15	AO	85	LEU	2.6
1	AA	1240	U	2.6
9	CI	94	ALA	2.6
41	BP	10	PRO	2.6
31	BA	1026	U	2.6
47	BV	55	ALA	2.6
49	DX	37	THR	2.6
3	AC	176	HIS	2.6
38	DI	133	HIS	2.6
2	AB	83	MET	2.6
5	CE	20	GLN	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	AB	97	TRP	2.6
10	AJ	45	ARG	2.6
36	BG	16	ARG	2.6
39	BN	53	VAL	2.6
41	BP	146	VAL	2.6
21	AU	18	TYR	2.6
30	D8	64	TYR	2.6
37	DH	164	TYR	2.6
1	AA	1026	G	2.6
31	BA	139(A)	G	2.6
32	DB	87	G	2.6
1	CA	532	A	2.6
2	AB	214	ILE	2.6
11	CK	127	LYS	2.6
12	CL	115	LYS	2.6
36	BG	117	PHE	2.6
47	BV	65	GLY	2.6
48	BW	2	GLU	2.6
51	DZ	143	GLY	2.6
1	AA	1234	C	2.6
1	AA	1384	C	2.6
31	BA	1672	C	2.6
44	DS	52	SER	2.6
48	BW	22	ASP	2.6
5	AE	119	LEU	2.6
6	AF	84	ASN	2.6
34	DE	63	LEU	2.6
38	BI	47	LEU	2.6
44	DS	54	LEU	2.6
51	BZ	150	LEU	2.6
13	CM	42	ALA	2.6
26	D4	11	PRO	2.6
44	BS	72	ALA	2.6
10	CJ	56	HIS	2.6
34	DE	66	HIS	2.6
9	AI	109	VAL	2.6
39	BN	55	VAL	2.6
43	BR	91	GLN	2.6
31	BA	271(K)	U	2.6
3	CC	150	LYS	2.6
4	AD	22	LYS	2.6
36	DG	75	LYS	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
39	BN	121	LYS	2.6
39	DN	37	LYS	2.6
47	DV	74	LYS	2.6
5	CE	131	ILE	2.6
38	BI	138	ILE	2.6
47	DV	96	ILE	2.6
46	BU	57	PHE	2.6
23	B1	27	GLU	2.6
24	B2	42	GLY	2.6
41	DP	54	GLY	2.6
44	DS	43	GLU	2.6
50	BY	41	GLY	2.6
20	CT	104	LEU	2.6
25	B3	23	LEU	2.6
35	BF	148	LEU	2.6
38	DI	47	LEU	2.6
1	AA	393	A	2.6
17	AQ	97	SER	2.6
32	DB	29	A	2.6
34	BE	174	ASP	2.6
37	DH	165	ALA	2.6
42	BQ	136	ALA	2.6
1	CA	1456	G	2.6
31	BA	226	G	2.6
31	BA	614(B)	G	2.6
50	BY	43	ASN	2.6
1	AA	1259	C	2.6
1	CA	1214	C	2.6
7	AG	3	ARG	2.6
9	CI	111	ARG	2.6
13	CM	103	THR	2.6
19	CS	81	ARG	2.6
21	AU	7	ARG	2.6
27	D5	4	HIS	2.6
32	DB	27	C	2.6
38	DI	108	THR	2.6
50	BY	73	ARG	2.6
7	CG	110	GLN	2.6
24	D2	56	GLN	2.6
8	AH	98	LYS	2.6
12	AL	57	LYS	2.6
24	D2	49	LYS	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	BH	160	LYS	2.6
50	DY	55	TYR	2.6
34	BE	67	PHE	2.6
2	CB	99	GLY	2.6
50	DY	93	GLY	2.6
37	BH	87	LEU	2.6
51	DZ	163	LEU	2.6
4	AD	163	GLU	2.6
36	BG	87	PRO	2.6
20	CT	89	ARG	2.6
23	B1	61	ARG	2.6
33	DD	54	ARG	2.6
38	DI	67	ARG	2.6
45	BT	91	ARG	2.6
12	AL	99	HIS	2.6
24	D2	62	THR	2.6
36	BG	15	VAL	2.6
36	BG	27	ASN	2.6
36	BG	159	VAL	2.6
36	BG	161	THR	2.6
38	DI	86	THR	2.6
20	CT	81	LYS	2.6
31	DA	92	A	2.6
44	DS	11	LYS	2.6
1	AA	1145	C	2.6
1	CA	662	G	2.6
1	CA	942	G	2.6
1	CA	963	G	2.6
9	CI	63	ILE	2.6
31	BA	30	G	2.6
31	BA	1529	G	2.6
31	BA	2780	G	2.6
39	BN	42	TRP	2.6
31	DA	1179	C	2.6
34	DE	77	ILE	2.6
38	BI	29	TYR	2.6
39	DN	75	TYR	2.6
4	AD	2	GLY	2.6
39	BN	82	LEU	2.6
41	BP	6	LEU	2.6
31	BA	1175	U	2.6
31	DA	2102	U	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DF	198	ALA	2.6
41	BP	77	ARG	2.6
4	CD	102	ASP	2.6
11	CK	43	SER	2.6
12	CL	43	VAL	2.6
33	DD	39	LYS	2.6
51	BZ	165	VAL	2.6
34	BE	132	HIS	2.6
49	DX	35	THR	2.6
51	BZ	63	ASP	2.6
13	CM	40	ASN	2.6
20	AT	75	ASN	2.6
35	DF	133	ASN	2.6
3	AC	182	ILE	2.5
16	CP	36	ILE	2.5
41	DP	70	GLN	2.5
1	CA	609	A	2.5
11	CK	98	LEU	2.5
17	AQ	6	LEU	2.5
12	AL	29	GLY	2.5
16	AP	10	GLY	2.5
41	DP	116	GLY	2.5
47	BV	54	GLY	2.5
2	AB	130	ARG	2.5
12	CL	86	ARG	2.5
31	BA	1041	C	2.5
32	BB	31	C	2.5
26	B4	12	ALA	2.5
27	D5	53	ALA	2.5
41	BP	16	ARG	2.5
1	CA	540	G	2.5
4	AD	81	GLU	2.5
17	CQ	48	GLU	2.5
31	BA	1047	G	2.5
32	DB	21	G	2.5
46	BU	108	GLU	2.5
15	CO	45	VAL	2.5
17	AQ	3	LYS	2.5
28	D6	45	LYS	2.5
36	DG	67	LYS	2.5
9	CI	117	HIS	2.5
22	B0	9	SER	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	BP	42	SER	2.5
44	BS	41	ASP	2.5
9	AI	74	ILE	2.5
26	D4	14	ILE	2.5
6	CF	94	GLN	2.5
8	AH	119	LEU	2.5
10	AJ	63	PHE	2.5
37	BH	103	LEU	2.5
45	BT	6	LEU	2.5
6	CF	63	TYR	2.5
11	CK	25	TYR	2.5
12	AL	72	GLY	2.5
38	DI	124	GLY	2.5
41	BP	109	GLY	2.5
45	DT	56	GLY	2.5
31	BA	92	A	2.5
31	DA	548	A	2.5
31	DA	2758	A	2.5
6	CF	42	GLU	2.5
16	CP	35	LYS	2.5
45	DT	1	MET	2.5
45	DT	109	GLU	2.5
46	BU	19	LYS	2.5
4	CD	8	VAL	2.5
12	CL	55	VAL	2.5
13	AM	17	VAL	2.5
14	CN	25	VAL	2.5
25	B3	58	VAL	2.5
1	AA	817	C	2.5
1	AA	1223	C	2.5
1	CA	308	C	2.5
1	CA	82	U	2.5
11	CK	21	ILE	2.5
31	BA	2473	U	2.5
1	CA	492	G	2.5
1	CA	1347	G	2.5
11	CK	111	ASP	2.5
28	B6	43	CYS	2.5
31	DA	1559	G	2.5
32	DB	63	G	2.5
11	AK	63	LEU	2.5
12	AL	32	PHE	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	CD	66	ARG	2.5
7	AG	44	TYR	2.5
12	AL	19	ARG	2.5
23	D1	20	ARG	2.5
33	BD	244	ARG	2.5
37	BH	108	GLY	2.5
42	DQ	92	GLY	2.5
44	BS	106	ARG	2.5
7	CG	39	ALA	2.5
11	AK	100	ALA	2.5
48	BW	98	LYS	2.5
50	DY	33	LYS	2.5
26	D4	1	MET	2.5
13	CM	15	VAL	2.5
16	AP	2	VAL	2.5
44	DS	49	VAL	2.5
49	BX	59	VAL	2.5
49	DX	74	PRO	2.5
1	CA	250	A	2.5
1	CA	1236	A	2.5
10	AJ	4	ILE	2.5
10	CJ	23	ILE	2.5
37	DH	89	ILE	2.5
3	AC	165	THR	2.5
4	CD	101	LEU	2.5
6	AF	30	LEU	2.5
17	CQ	84	LEU	2.5
36	DG	172	LEU	2.5
1	CA	48	C	2.5
1	CA	736	C	2.5
1	CA	1325	C	2.5
31	BA	2475	C	2.5
43	BR	2	ARG	2.5
45	DT	16	ARG	2.5
13	CM	62	ASN	2.5
19	AS	53	ASN	2.5
38	DI	43	ASN	2.5
35	DF	208	GLY	2.5
50	BY	58	GLY	2.5
7	AG	29	LYS	2.5
7	CG	29	LYS	2.5
17	CQ	37	LYS	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
20	CT	74	LYS	2.5
38	BI	118	LYS	2.5
39	BN	83	LYS	2.5
42	DQ	20	ALA	2.5
1	AA	630	G	2.5
1	CA	922	G	2.5
1	CA	1530	G	2.5
31	BA	1042	G	2.5
38	DI	145	VAL	2.5
47	BV	46	VAL	2.5
37	BH	162	ILE	2.5
3	AC	6	HIS	2.5
3	CC	34	LEU	2.5
4	CD	162	LEU	2.5
10	CJ	40	LEU	2.5
20	CT	73	HIS	2.5
23	D1	82	LEU	2.5
36	BG	33	ARG	2.5
38	BI	52	ARG	2.5
47	BV	7	THR	2.5
49	DX	27	THR	2.5
51	BZ	79	ARG	2.5
1	AA	1183	A	2.5
31	BA	2753	A	2.5
31	DA	271	A	2.5
3	CC	49	SER	2.5
16	CP	3	LYS	2.5
18	CR	71	LYS	2.5
22	B0	49	LYS	2.5
27	B5	54	GLY	2.5
30	D8	39	LYS	2.5
34	BE	57	LYS	2.5
41	BP	64	LYS	2.5
4	AD	195	ALA	2.5
12	AL	120	TYR	2.5
28	D6	40	CYS	2.5
30	B8	51	ALA	2.5
49	BX	91	ALA	2.5
1	AA	841	U	2.5
1	CA	1119	C	2.5
31	BA	2065	C	2.5
31	BA	2752	C	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	DA	1958	C	2.5
6	CF	91	VAL	2.5
50	DY	45	VAL	2.5
23	D1	44	PRO	2.5
37	DH	154	PRO	2.5
5	CE	83	GLU	2.5
6	AF	31	GLU	2.5
12	CL	127	GLU	2.5
13	AM	69	GLU	2.5
34	BE	200	GLU	2.5
21	AU	13	ILE	2.4
4	CD	19	LEU	2.4
35	BF	32	LEU	2.4
36	BG	175	LEU	2.4
1	CA	158	G	2.4
1	CA	929	G	2.4
2	AB	55	PHE	2.4
2	CB	175	ARG	2.4
41	BP	33	ARG	2.4
47	DV	87	HIS	2.4
39	DN	2	LYS	2.4
49	DX	50	LYS	2.4
33	BD	139	GLY	2.4
36	DG	29	TRP	2.4
22	B0	85	ALA	2.4
37	DH	96	ALA	2.4
40	BO	116	SER	2.4
7	CG	28	ASN	2.4
34	BE	18	ASP	2.4
37	BH	137	ASP	2.4
39	BN	50	ASP	2.4
1	AA	1280	A	2.4
17	AQ	35	VAL	2.4
26	D4	18	CYS	2.4
31	BA	548	A	2.4
31	BA	1412	A	2.4
49	BX	74	PRO	2.4
19	AS	49	ILE	2.4
6	AF	79	LEU	2.4
31	BA	271(B)	C	2.4
33	BD	237	GLU	2.4
35	BF	3	GLU	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DF	152	GLU	2.4
36	BG	96	ARG	2.4
38	DI	58	LEU	2.4
51	BZ	5	LEU	2.4
30	D8	48	PHE	2.4
46	DU	84	LYS	2.4
10	CJ	87	THR	2.4
41	BP	30	THR	2.4
11	AK	74	ALA	2.4
38	BI	83	ALA	2.4
31	BA	1482	G	2.4
31	BA	2319	G	2.4
39	DN	5	VAL	2.4
50	DY	98	VAL	2.4
13	AM	16	ASP	2.4
27	D5	36	CYS	2.4
49	DX	32	PRO	2.4
17	CQ	38	ARG	2.4
29	D7	41	ARG	2.4
36	DG	118	ARG	2.4
47	DV	40	LEU	2.4
2	CB	231	GLU	2.4
24	D2	12	GLU	2.4
33	DD	67	PHE	2.4
31	BA	362	U	2.4
41	DP	137	LYS	2.4
43	DR	3	HIS	2.4
31	DA	1053	C	2.4
2	CB	67	THR	2.4
14	CN	28	GLY	2.4
16	AP	67	THR	2.4
41	DP	30	THR	2.4
47	BV	32	THR	2.4
4	CD	195	ALA	2.4
7	AG	89	MET	2.4
11	CK	89	ALA	2.4
16	AP	1	MET	2.4
39	DN	124	ALA	2.4
45	DT	116	ALA	2.4
11	CK	47	VAL	2.4
13	AM	59	TYR	2.4
33	BD	76	PRO	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
50	BY	17	SER	2.4
51	BZ	92	SER	2.4
5	CE	109	ILE	2.4
9	AI	99	LEU	2.4
15	AO	67	LEU	2.4
18	AR	36	ASN	2.4
36	BG	128	ARG	2.4
43	DR	68	ARG	2.4
45	BT	58	ASN	2.4
47	BV	97	LYS	2.4
51	DZ	36	LYS	2.4
1	AA	347	G	2.4
1	AA	1036	G	2.4
14	CN	46	GLU	2.4
31	BA	2304	G	2.4
31	DA	2101	G	2.4
31	DA	2661	G	2.4
31	DA	2663	G	2.4
32	DB	19	G	2.4
33	BD	15	PHE	2.4
36	DG	125	PHE	2.4
38	DI	60	GLU	2.4
1	AA	958	A	2.4
31	BA	6	A	2.4
1	CA	1205	U	2.4
1	CA	1240	U	2.4
13	AM	30	ALA	2.4
11	CK	84	VAL	2.4
40	DO	38	VAL	2.4
5	CE	56	GLN	2.4
1	CA	612	C	2.4
23	B1	43	TYR	2.4
36	BG	136	ARG	2.4
44	DS	106	ARG	2.4
45	DT	14	TYR	2.4
2	AB	138	LEU	2.4
9	AI	85	LEU	2.4
9	CI	102	LEU	2.4
9	CI	123	PRO	2.4
13	CM	96	LEU	2.4
15	AO	2	PRO	2.4
16	CP	49	LEU	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
24	D2	57	ILE	2.4
34	DE	134	ILE	2.4
36	BG	90	LEU	2.4
13	CM	31	LYS	2.4
33	BD	230	ASP	2.4
37	BH	27	LYS	2.4
49	BX	64	LYS	2.4
19	CS	74	PHE	2.4
13	CM	8	GLU	2.4
20	AT	60	GLU	2.4
23	B1	89	GLU	2.4
10	AJ	56	HIS	2.4
3	AC	9	GLY	2.4
4	CD	69	GLY	2.4
5	AE	23	GLY	2.4
3	CC	160	ALA	2.4
3	CC	168	ALA	2.4
3	AC	207	VAL	2.4
11	AK	14	VAL	2.4
27	D5	45	VAL	2.4
37	BH	50	VAL	2.4
37	DH	144	VAL	2.4
51	DZ	86	VAL	2.4
1	AA	107	G	2.4
1	CA	1034	G	2.4
1	CA	1160	G	2.4
31	BA	1948	G	2.4
31	DA	1171	G	2.4
31	DA	1816	G	2.4
32	BB	16	G	2.4
1	AA	1086	U	2.4
1	CA	884	U	2.4
13	CM	99	ARG	2.4
24	D2	46	GLN	2.4
25	B3	29	ARG	2.4
31	BA	2309	A	2.4
32	BB	58	A	2.4
35	DF	205	ARG	2.4
36	BG	113	ARG	2.4
38	BI	113	ARG	2.4
42	BQ	13	GLN	2.4
3	AC	199	LYS	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	AD	4	TYR	2.3
10	CJ	39	PRO	2.3
36	BG	2	PRO	2.3
38	BI	5	LEU	2.3
38	BI	137	PRO	2.3
38	DI	72	LEU	2.3
33	BD	5	LYS	2.3
43	BR	42	LYS	2.3
47	DV	36	PRO	2.3
50	BY	95	LYS	2.3
50	DY	74	PRO	2.3
4	AD	71	SER	2.3
1	AA	932	C	2.3
26	D4	20	ASN	2.3
32	BB	88	C	2.3
32	DB	28	C	2.3
3	CC	161	GLU	2.3
7	CG	47	CYS	2.3
38	BI	125	GLU	2.3
35	BF	86	GLY	2.3
41	BP	54	GLY	2.3
2	CB	230	VAL	2.3
19	CS	60	VAL	2.3
19	CS	67	VAL	2.3
37	BH	115	VAL	2.3
42	BQ	107	ALA	2.3
45	DT	34	VAL	2.3
51	BZ	86	VAL	2.3
36	BG	22	ARG	2.3
42	BQ	10	ARG	2.3
4	AD	101	LEU	2.3
30	B8	52	LYS	2.3
36	BG	26	GLN	2.3
37	BH	148	ILE	2.3
39	BN	118	LYS	2.3
45	BT	42	ILE	2.3
50	DY	63	LYS	2.3
13	AM	113	PRO	2.3
16	AP	66	PRO	2.3
1	CA	1025	U	2.3
31	BA	2311	A	2.3
31	BA	2712(A)	A	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	AA	1030(C)	G	2.3
1	CA	493	G	2.3
31	DA	361	G	2.3
31	DA	651	G	2.3
31	DA	1238	G	2.3
2	CB	233	SER	2.3
38	DI	143	SER	2.3
24	B2	34	GLU	2.3
1	AA	219	C	2.3
1	AA	385	C	2.3
1	AA	589	C	2.3
1	CA	89	C	2.3
8	CH	93	VAL	2.3
13	AM	15	VAL	2.3
20	AT	69	GLY	2.3
31	DA	267	C	2.3
31	DA	271(C)	C	2.3
32	BB	30	C	2.3
34	DE	68	ALA	2.3
36	DG	6	ALA	2.3
19	CS	29	ARG	2.3
22	D0	55	ARG	2.3
35	BF	18	ARG	2.3
37	BH	114	VAL	2.3
47	DV	5	VAL	2.3
51	BZ	121	HIS	2.3
10	AJ	14	LYS	2.3
12	CL	46	LYS	2.3
17	AQ	87	LYS	2.3
23	B1	34	THR	2.3
24	D2	61	LEU	2.3
36	BG	29	TRP	2.3
39	BN	70	LYS	2.3
39	DN	82	LEU	2.3
46	DU	25	TRP	2.3
50	BY	9	LYS	2.3
28	D6	47	THR	2.3
33	DD	40	THR	2.3
33	BD	270	ILE	2.3
39	BN	85	ILE	2.3
50	BY	75	ILE	2.3
21	AU	23	PRO	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DQ	93	TYR	2.3
47	BV	12	TYR	2.3
51	BZ	38	TYR	2.3
20	AT	11	SER	2.3
1	CA	1285	A	2.3
4	CD	154	ASN	2.3
6	CF	15	ASP	2.3
11	CK	117	ASN	2.3
33	BD	44	ASN	2.3
36	BG	99	MET	2.3
36	BG	168	GLU	2.3
45	DT	112	ARG	2.3
51	BZ	77	ASP	2.3
12	CL	68	ALA	2.3
13	CM	112	GLY	2.3
16	CP	84	ALA	2.3
33	DD	235	GLY	2.3
39	BN	92	ALA	2.3
50	BY	37	VAL	2.3
50	BY	51	VAL	2.3
51	BZ	139	VAL	2.3
1	CA	485	G	2.3
1	CA	631	G	2.3
2	CB	147	LYS	2.3
24	D2	48	HIS	2.3
9	CI	40	LEU	2.3
19	AS	16	LEU	2.3
31	BA	1436	G	2.3
31	DA	2630	G	2.3
31	DA	2664	G	2.3
35	BF	108	LYS	2.3
39	BN	2	LYS	2.3
39	BN	65	LYS	2.3
39	BN	128	HIS	2.3
49	BX	72	LYS	2.3
50	DY	26	LYS	2.3
43	DR	100	LEU	2.3
7	CG	42	ILE	2.3
35	BF	172	TRP	2.3
35	DF	206	ILE	2.3
39	DN	60	ILE	2.3
1	CA	174	C	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
11	CK	28	THR	2.3
31	BA	1577	C	2.3
31	DA	1118	C	2.3
36	BG	145	THR	2.3
10	AJ	41	PRO	2.3
12	AL	25	PRO	2.3
13	CM	97	PRO	2.3
9	AI	88	TYR	2.3
38	DI	25	TYR	2.3
7	AG	41	ARG	2.3
15	CO	59	MET	2.3
42	BQ	6	ARG	2.3
3	CC	71	ALA	2.3
4	CD	112	VAL	2.3
6	AF	17	SER	2.3
9	CI	44	VAL	2.3
11	CK	109	VAL	2.3
14	CN	4	LYS	2.3
17	AQ	67	LYS	2.3
17	CQ	49	GLU	2.3
18	AR	68	LYS	2.3
23	D1	63	ALA	2.3
27	B5	59	GLU	2.3
28	D6	15	GLU	2.3
33	BD	30	GLU	2.3
34	BE	203	LYS	2.3
35	BF	130	ALA	2.3
36	BG	46	ALA	2.3
37	DH	30	LYS	2.3
39	DN	139	GLU	2.3
41	BP	29	LYS	2.3
42	BQ	19	GLY	2.3
1	AA	368	U	2.3
8	CH	121	ASP	2.3
2	CB	19	HIS	2.3
15	CO	31	LEU	2.3
31	BA	958	U	2.3
31	BA	1113	U	2.3
32	DB	55	U	2.3
36	BG	94	LEU	2.3
36	DG	150	ASP	2.3
1	CA	728	A	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	AJ	23	ILE	2.3
25	D3	13	ILE	2.3
31	BA	878	A	2.3
31	BA	2662	A	2.3
32	DB	48	A	2.3
32	DB	52	A	2.3
36	DG	77	ILE	2.3
5	AE	93	PRO	2.3
9	CI	64	THR	2.3
11	CK	41	THR	2.3
18	AR	47	THR	2.3
18	CR	47	THR	2.3
36	DG	68	PRO	2.3
1	AA	64	G	2.3
1	AA	530	G	2.3
1	CA	1050	G	2.3
1	CA	1186	G	2.3
19	CS	80	TYR	2.3
31	BA	549	G	2.3
31	DA	508	G	2.3
31	DA	2780	G	2.3
32	DB	23	G	2.3
42	DQ	137	TYR	2.3
46	DU	76	TYR	2.3
1	AA	435	C	2.3
1	AA	1354	C	2.3
1	CA	1030(B)	C	2.3
31	BA	291	C	2.3
31	BA	904	C	2.3
51	BZ	112	ARG	2.3
12	AL	23	LYS	2.3
13	AM	107	ALA	2.3
33	BD	224	ALA	2.3
36	BG	38	VAL	2.3
37	BH	52	VAL	2.3
37	DH	141	VAL	2.3
38	DI	39	ALA	2.3
38	DI	98	ALA	2.3
38	DI	136	VAL	2.3
39	BN	132	ALA	2.3
50	BY	45	VAL	2.3
2	AB	49	GLU	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	AB	51	LEU	2.3
4	CD	157	LEU	2.3
9	AI	12	GLU	2.3
22	B0	7	LEU	2.3
24	D2	16	LEU	2.3
36	DG	143	GLU	2.3
37	DH	67	LEU	2.3
44	BS	48	LEU	2.3
47	BV	34	GLU	2.3
49	DX	9	LEU	2.3
2	CB	211	ILE	2.2
5	AE	118	ILE	2.2
23	B1	18	ILE	2.2
34	BE	14	ILE	2.2
36	BG	114	ILE	2.2
36	DG	4	ASP	2.2
36	DG	27	ASN	2.2
37	BH	61	HIS	2.2
51	DZ	121	HIS	2.2
32	BB	34	U	2.2
31	BA	2657	A	2.2
31	DA	1359	A	2.2
36	DG	138	GLN	2.2
45	BT	90	GLN	2.2
5	AE	27	ARG	2.2
6	AF	86	ARG	2.2
16	CP	42	ARG	2.2
50	BY	84	ARG	2.2
33	BD	38	LYS	2.2
36	BG	8	LYS	2.2
37	DH	153	LYS	2.2
39	DN	84	LYS	2.2
37	BH	144	VAL	2.2
46	DU	110	VAL	2.2
2	AB	177	ALA	2.2
4	CD	41	GLY	2.2
8	CH	112	LEU	2.2
12	CL	52	LEU	2.2
13	AM	2	ALA	2.2
19	CS	68	GLY	2.2
23	D1	77	ALA	2.2
33	BD	170	GLY	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BF	167	ALA	2.2
36	BG	172	LEU	2.2
41	BP	11	GLY	2.2
1	AA	79	G	2.2
1	CA	436	C	2.2
1	CA	1024	G	2.2
1	CA	1030(C)	G	2.2
31	BA	1505	C	2.2
31	DA	1122	G	2.2
31	DA	2105	C	2.2
25	B3	48	GLU	2.2
9	CI	77	ILE	2.2
14	CN	60	SER	2.2
18	CR	70	ILE	2.2
38	DI	51	ILE	2.2
44	BS	34	HIS	2.2
5	AE	65	ASN	2.2
8	AH	8	ASP	2.2
13	CM	16	ASP	2.2
40	DO	88	ASN	2.2
2	AB	234	PRO	2.2
36	DG	112	PRO	2.2
38	BI	119	PRO	2.2
3	AC	192	THR	2.2
15	AO	33	THR	2.2
23	D1	34	THR	2.2
38	BI	108	THR	2.2
1	CA	833	U	2.2
1	CA	841	U	2.2
4	CD	107	ARG	2.2
31	DA	272(I)	U	2.2
34	BE	79	ARG	2.2
34	DE	58	ARG	2.2
39	BN	114	ARG	2.2
51	DZ	81	ARG	2.2
39	BN	75	TYR	2.2
40	BO	66	LYS	2.2
23	B1	14	VAL	2.2
39	BN	46	VAL	2.2
39	DN	54	VAL	2.2
47	BV	61	VAL	2.2
1	CA	397	A	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	CA	949	A	2.2
2	CB	155	LEU	2.2
15	AO	32	LEU	2.2
31	BA	2376	A	2.2
32	BB	57	A	2.2
36	BG	62	LEU	2.2
36	BG	176	LEU	2.2
38	DI	36	ALA	2.2
49	BX	13	LEU	2.2
9	AI	8	GLY	2.2
9	AI	100	GLY	2.2
42	DQ	100	GLY	2.2
13	AM	84	ILE	2.2
26	B4	22	ILE	2.2
36	BG	140	ILE	2.2
47	DV	4	ILE	2.2
30	B8	40	GLU	2.2
26	D4	6	HIS	2.2
1	AA	1397	C	2.2
8	AH	25	ASP	2.2
11	AK	117	ASN	2.2
13	CM	113	PRO	2.2
28	D6	41	PRO	2.2
31	BA	1957	C	2.2
31	DA	2347	C	2.2
47	BV	16	PRO	2.2
3	AC	131	ARG	2.2
9	AI	42	ARG	2.2
36	DG	136	ARG	2.2
42	BQ	59	ARG	2.2
43	BR	45	ARG	2.2
49	DX	68	ARG	2.2
1	CA	306	G	2.2
14	AN	58	LYS	2.2
31	BA	715	G	2.2
31	DA	272	G	2.2
31	DA	1858	G	2.2
32	DB	117	G	2.2
39	DN	131	GLN	2.2
43	BR	71	GLN	2.2
4	CD	104	VAL	2.2
13	AM	98	VAL	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
15	CO	60	VAL	2.2
19	AS	60	VAL	2.2
46	BU	90	VAL	2.2
4	AD	78	LEU	2.2
33	DD	155	LEU	2.2
37	BH	171	LEU	2.2
1	AA	5	U	2.2
1	CA	90	U	2.2
11	CK	97	ALA	2.2
50	DY	36	ALA	2.2
49	BX	67	GLY	2.2
51	BZ	64	GLY	2.2
47	DV	99	ILE	2.2
51	BZ	146	ILE	2.2
13	AM	8	GLU	2.2
24	B2	31	GLU	2.2
31	BA	1214	A	2.2
31	DA	1412	A	2.2
35	BF	56	GLU	2.2
35	DF	56	GLU	2.2
37	BH	40	GLU	2.2
37	BH	111	HIS	2.2
4	AD	132	ARG	2.2
14	AN	31	ARG	2.2
17	AQ	70	ARG	2.2
27	B5	42	PRO	2.2
29	B7	23	ARG	2.2
33	BD	53	PHE	2.2
33	BD	269	PHE	2.2
34	DE	67	PHE	2.2
36	BG	78	SER	2.2
36	DG	102	PHE	2.2
50	DY	2	ARG	2.2
30	D8	15	LYS	2.2
45	BT	8	LYS	2.2
50	DY	56	PRO	2.2
42	BQ	135	ASP	2.2
44	BS	21	THR	2.2
47	BV	45	THR	2.2
1	AA	386	C	2.2
6	AF	27	GLN	2.2
7	CG	23	VAL	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	CG	124	LEU	2.2
19	AS	30	LEU	2.2
20	AT	20	LEU	2.2
20	CT	72	LEU	2.2
30	D8	61	LEU	2.2
31	BA	737	C	2.2
31	BA	1493	C	2.2
31	BA	2183	C	2.2
31	DA	1543	C	2.2
31	DA	2752	C	2.2
32	DB	62	C	2.2
35	DF	125	LEU	2.2
36	DG	62	LEU	2.2
38	BI	38	LEU	2.2
39	BN	72	TYR	2.2
42	DQ	74	TYR	2.2
10	CJ	20	ALA	2.2
13	CM	107	ALA	2.2
18	AR	73	ALA	2.2
38	DI	100	ALA	2.2
49	BX	4	ALA	2.2
3	CC	74	GLY	2.2
38	BI	34	GLY	2.2
1	CA	78	G	2.2
1	CA	1124	G	2.2
31	BA	271(M)	G	2.2
31	BA	407	G	2.2
31	BA	2553	G	2.2
31	DA	272(D)	G	2.2
31	DA	879	G	2.2
31	DA	1110	G	2.2
4	CD	3	ARG	2.2
4	CD	15	GLU	2.2
12	AL	86	ARG	2.2
12	CL	19	ARG	2.2
34	BE	58	ARG	2.2
42	DQ	60	ARG	2.2
5	AE	88	LYS	2.2
5	CE	9	LYS	2.2
3	AC	7	PRO	2.2
4	AD	7	PRO	2.2
5	AE	77	PRO	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	D5	32	PRO	2.2
29	D7	44	PRO	2.2
37	BH	126	PRO	2.2
1	AA	1447	A	2.2
1	CA	1204	A	2.2
31	DA	1106	A	2.2
31	DA	1937	A	2.2
3	CC	177	THR	2.2
10	AJ	42	THR	2.2
13	CM	53	VAL	2.2
19	AS	9	VAL	2.2
35	BF	193	VAL	2.2
46	BU	105	VAL	2.2
41	DP	110	TYR	2.2
9	AI	55	ALA	2.1
34	BE	68	ALA	2.1
35	BF	128	ALA	2.1
38	BI	94	ALA	2.1
3	AC	171	GLY	2.1
13	AM	24	GLY	2.1
38	BI	84	GLY	2.1
43	DR	7	GLY	2.1
10	AJ	98	ILE	2.1
33	DD	49	ILE	2.1
1	CA	352	C	2.1
1	CA	381	C	2.1
32	BB	28	C	2.1
4	CD	49	ARG	2.1
10	CJ	46	ARG	2.1
42	DQ	6	ARG	2.1
2	AB	140	HIS	2.1
8	AH	99	GLU	2.1
37	BH	81	GLU	2.1
37	DH	81	GLU	2.1
43	DR	13	HIS	2.1
51	BZ	11	GLU	2.1
1	AA	1307	U	2.1
1	AA	625	G	2.1
1	AA	682	G	2.1
1	AA	925	G	2.1
1	AA	973	G	2.1
1	AA	1024	G	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	AA	1442(A)	G	2.1
1	CA	1491	G	2.1
5	CE	52	PRO	2.1
9	AI	21	PRO	2.1
31	DA	2761	G	2.1
31	DA	2833	G	2.1
32	DB	98	G	2.1
38	BI	80	PRO	2.1
24	D2	33	MET	2.1
4	AD	96	LEU	2.1
6	CF	37	VAL	2.1
10	AJ	44	VAL	2.1
10	CJ	16	LEU	2.1
17	AQ	74	LEU	2.1
20	CT	20	LEU	2.1
23	B1	74	VAL	2.1
38	BI	72	LEU	2.1
38	BI	101	LEU	2.1
47	BV	95	LEU	2.1
3	CC	165	THR	2.1
21	AU	17	THR	2.1
36	DG	165	THR	2.1
4	AD	45	GLN	2.1
8	AH	94	TYR	2.1
14	AN	2	ALA	2.1
17	CQ	83	ASP	2.1
36	BG	11	TYR	2.1
36	BG	151	ALA	2.1
39	DN	127	ASP	2.1
45	BT	68	TYR	2.1
46	DU	91	ASP	2.1
50	DY	100	ALA	2.1
1	AA	572	A	2.1
1	AA	1179	A	2.1
31	BA	271	A	2.1
31	DA	603	A	2.1
11	CK	46	GLY	2.1
51	BZ	115	GLY	2.1
2	CB	157	ARG	2.1
4	CD	132	ARG	2.1
15	CO	63	ARG	2.1
28	B6	40	CYS	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	DU	101	ARG	2.1
48	BW	92	ARG	2.1
50	DY	73	ARG	2.1
29	D7	14	LYS	2.1
33	DD	4	LYS	2.1
38	DI	87	LYS	2.1
2	CB	140	HIS	2.1
36	DG	137	GLU	2.1
37	BH	159	GLU	2.1
50	DY	91	GLU	2.1
1	AA	1103	C	2.1
1	AA	1320	C	2.1
1	CA	1210	C	2.1
31	DA	758	C	2.1
31	DA	2295	C	2.1
51	BZ	25	PRO	2.1
33	DD	175	LEU	2.1
44	BS	56	LEU	2.1
44	BS	101	LEU	2.1
15	CO	27	VAL	2.1
34	DE	196	VAL	2.1
37	BH	26	VAL	2.1
15	AO	4	THR	2.1
22	B0	10	THR	2.1
34	DE	70	ALA	2.1
36	BG	162	THR	2.1
49	BX	42	ALA	2.1
16	CP	14	ASN	2.1
6	CF	83	ASP	2.1
7	AG	30	ILE	2.1
1	AA	916	G	2.1
1	AA	926	G	2.1
1	AA	1133	G	2.1
1	CA	346	G	2.1
1	CA	1207	G	2.1
12	CL	72	GLY	2.1
13	CM	84	ILE	2.1
37	DH	163	TYR	2.1
22	B0	17	GLN	2.1
31	DA	1949	G	2.1
35	DF	47	GLY	2.1
36	BG	127	GLY	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
39	BN	8	GLN	2.1
7	CG	3	ARG	2.1
10	CJ	43	ARG	2.1
13	AM	71	ARG	2.1
20	AT	68	LYS	2.1
38	BI	50	ARG	2.1
41	DP	21	ARG	2.1
50	BY	46	LYS	2.1
50	DY	46	LYS	2.1
1	AA	1350	A	2.1
4	AD	79	PHE	2.1
41	BP	130	PHE	2.1
28	D6	43	CYS	2.1
2	CB	91	PRO	2.1
6	AF	61	LEU	2.1
10	AJ	53	PRO	2.1
19	AS	59	PRO	2.1
42	BQ	38	GLU	2.1
48	DW	2	GLU	2.1
50	DY	6	HIS	2.1
33	BD	133	LEU	2.1
35	BF	142	TRP	2.1
36	DG	82	LEU	2.1
38	BI	114	LEU	2.1
39	DN	138	LEU	2.1
8	CH	53	VAL	2.1
37	BH	49	VAL	2.1
47	BV	5	VAL	2.1
6	CF	35	ALA	2.1
28	D6	22	ALA	2.1
32	DB	17	C	2.1
7	AG	49	ILE	2.1
11	AK	95	ILE	2.1
19	CS	49	ILE	2.1
20	CT	35	THR	2.1
35	DF	175	THR	2.1
37	BH	92	ILE	2.1
38	DI	40	THR	2.1
2	AB	74	LYS	2.1
10	AJ	70	ARG	2.1
24	B2	26	ARG	2.1
31	BA	1709	U	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	DG	84	LYS	2.1
44	DS	17	ARG	2.1
44	DS	97	ARG	2.1
45	DT	92	GLY	2.1
45	DT	93	ARG	2.1
51	BZ	35	ARG	2.1
51	DZ	3	TYR	2.1
4	CD	110	PHE	2.1
1	AA	1370	G	2.1
1	CA	570	G	2.1
1	CA	926	G	2.1
1	CA	933	G	2.1
2	CB	83	MET	2.1
31	BA	1593	G	2.1
31	DA	271(Q)	G	2.1
31	DA	1164	G	2.1
13	CM	74	VAL	2.1
19	CS	73	GLU	2.1
41	DP	23	PRO	2.1
22	B0	23	VAL	2.1
31	BA	1009	A	2.1
31	DA	547	A	2.1
31	DA	2662	A	2.1
34	DE	75	VAL	2.1
41	DP	52	GLU	2.1
51	DZ	56	VAL	2.1
8	CH	28	ALA	2.1
9	AI	106	ALA	2.1
36	DG	151	ALA	2.1
4	AD	122	ARG	2.1
9	CI	11	LYS	2.1
12	CL	17	LYS	2.1
30	D8	57	ARG	2.1
18	CR	82	THR	2.1
41	BP	26	GLY	2.1
41	DP	109	GLY	2.1
23	D1	86	SER	2.1
26	B4	26	SER	2.1
16	AP	76	GLN	2.1
25	B3	32	GLN	2.1
1	AA	569	C	2.1
1	CA	135	C	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	CA	1389	C	2.1
21	AU	5	ASP	2.1
31	BA	2667	C	2.1
31	DA	2896	C	2.1
18	CR	66	LEU	2.1
34	BE	52	LEU	2.1
36	BG	53	LEU	2.1
36	BG	106	LEU	2.1
36	DG	43	LEU	2.1
38	DI	114	LEU	2.1
4	AD	133	VAL	2.1
18	AR	39	VAL	2.1
20	CT	88	VAL	2.1
26	D4	29	PRO	2.1
33	DD	173	VAL	2.1
38	DI	144	VAL	2.1
39	BN	79	PRO	2.1
42	BQ	27	VAL	2.1
50	DY	24	VAL	2.1
40	DO	92	GLU	2.1
51	BZ	119	GLU	2.1
5	CE	138	ALA	2.0
6	CF	8	ILE	2.0
7	CG	25	ALA	2.0
8	CH	116	LYS	2.0
9	CI	61	ALA	2.0
12	CL	21	LYS	2.0
20	CT	25	ARG	2.0
20	CT	77	ALA	2.0
37	DH	69	ARG	2.0
51	BZ	7	ALA	2.0
1	AA	632	A	2.0
1	AA	974	A	2.0
1	CA	1363(A)	A	2.0
1	CA	610	G	2.0
1	CA	1127	G	2.0
1	CA	1164	G	2.0
5	CE	22	GLY	2.0
31	BA	2660	A	2.0
31	DA	2376	A	2.0
32	DB	57	A	2.0
31	BA	1949	G	2.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	BA	2659	G	2.0
31	DA	2795	G	2.0
32	BB	21	G	2.0
32	BB	61	G	2.0
33	DD	234	GLY	2.0
14	AN	34	TYR	2.0
21	CU	18	TYR	2.0
33	DD	27	THR	2.0
37	BH	94	TYR	2.0
37	DH	122	THR	2.0
37	DH	157	TYR	2.0
45	DT	27	THR	2.0
14	AN	16	PHE	2.0
46	DU	79	PHE	2.0
46	BU	75	ASN	2.0
2	AB	155	LEU	2.0
8	CH	73	ASP	2.0
13	AM	34	LEU	2.0
35	DF	24	LEU	2.0
35	DF	195	ASP	2.0
37	DH	105	LEU	2.0
38	BI	140	LEU	2.0
51	DZ	70	LEU	2.0
51	DZ	76	LEU	2.0
13	CM	17	VAL	2.0
1	AA	470	C	2.0
1	AA	979	C	2.0
1	AA	1109	C	2.0
10	CJ	41	PRO	2.0
31	BA	158	U	2.0
32	BB	49	C	2.0
35	BF	14	PRO	2.0
37	DH	107	VAL	2.0
38	BI	134	PRO	2.0
39	DN	126	PRO	2.0
43	DR	110	PRO	2.0
47	DV	51	VAL	2.0
31	BA	271(J)	C	2.0
43	BR	3	HIS	2.0
5	CE	25	ARG	2.0
9	AI	116	LYS	2.0
17	CQ	100	LYS	2.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
18	AR	32	ARG	2.0
20	AT	8	ARG	2.0
20	CT	60	GLU	2.0
24	D2	14	ARG	2.0
43	DR	40	LYS	2.0
51	DZ	13	GLU	2.0
3	AC	149	ALA	2.0
3	CC	117	ALA	2.0
5	CE	86	ALA	2.0
9	CI	74	ILE	2.0
9	CI	81	ILE	2.0
9	CI	84	ALA	2.0
22	D0	2	ALA	2.0
37	BH	165	ALA	2.0
41	BP	120	ALA	2.0
42	DQ	136	ALA	2.0
44	DS	40	ILE	2.0
46	DU	80	ILE	2.0
50	BY	76	CYS	2.0
37	BH	161	GLY	2.0
51	BZ	147	GLY	2.0
5	CE	135	THR	2.0
13	CM	21	TYR	2.0
37	DH	83	TYR	2.0
9	CI	37	PHE	2.0
44	BS	29	PHE	2.0
1	AA	1360	A	2.0
1	AA	1531	A	2.0
31	DA	2602	A	2.0
2	CB	102	LEU	2.0
12	AL	93	LEU	2.0
34	BE	182	LEU	2.0
35	BF	170	LEU	2.0
41	DP	88	LEU	2.0
47	BV	73	SER	2.0
50	DY	31	LEU	2.0
1	AA	1276	G	2.0
1	AA	1387	G	2.0
1	CA	661	G	2.0
2	CB	79	ASP	2.0
12	AL	43	VAL	2.0
15	AO	11	VAL	2.0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
28	D6	52	VAL	2.0
31	DA	10	G	2.0
31	DA	2192	G	2.0
35	BF	154	VAL	2.0
36	DG	15	VAL	2.0
2	AB	131	PRO	2.0
16	AP	42	ARG	2.0
21	AU	20	LYS	2.0
28	B6	18	ARG	2.0
35	BF	144	LYS	2.0
39	BN	84	LYS	2.0
40	DO	66	LYS	2.0
47	DV	69	LYS	2.0
1	CA	1049	U	2.0
3	AC	113	ALA	2.0
3	CC	137	ALA	2.0
3	CC	166	GLU	2.0
15	CO	3	ILE	2.0
20	AT	77	ALA	2.0
31	DA	1590	U	2.0
32	BB	41	U	2.0
38	DI	83	ALA	2.0
40	BO	54	GLU	2.0
51	DZ	146	ILE	2.0
1	AA	745	C	2.0
1	CA	972	C	2.0
1	CA	1069	C	2.0
11	AK	45	GLY	2.0
32	BB	60	C	2.0
32	DB	20	C	2.0
36	BG	42	GLY	2.0
37	BH	100	GLY	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 monosaccharides 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, 95<sup>th</sup> 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(Å <sup>2</sup> )	Q<0.9
52	MG	CA	1648	1/1	0.53	0.30	69,69,69,69	0
52	MG	AA	1645	1/1	0.54	0.30	104,104,104,104	0
52	MG	DA	3229	1/1	0.59	0.27	78,78,78,78	0
52	MG	DA	3270	1/1	0.61	0.34	92,92,92,92	0
52	MG	DA	3114	1/1	0.62	0.14	75,75,75,75	0
52	MG	BA	3290	1/1	0.63	0.33	87,87,87,87	0
52	MG	BA	3219	1/1	0.64	0.42	75,75,75,75	0
52	MG	CA	1633	1/1	0.64	0.26	77,77,77,77	0
52	MG	DA	3238	1/1	0.66	0.19	80,80,80,80	0
52	MG	DA	3311	1/1	0.66	0.46	86,86,86,86	0
52	MG	DA	3255	1/1	0.68	0.39	91,91,91,91	0
52	MG	DA	3150	1/1	0.69	0.55	80,80,80,80	0
52	MG	DA	3060	1/1	0.70	0.37	50,50,50,50	0
52	MG	AA	1612	1/1	0.70	0.26	84,84,84,84	0
52	MG	CA	1634	1/1	0.71	0.29	88,88,88,88	0
52	MG	AA	1614	1/1	0.71	0.22	81,81,81,81	0
52	MG	BA	3359	1/1	0.72	0.16	81,81,81,81	0
52	MG	DA	3236	1/1	0.72	0.59	76,76,76,76	0
52	MG	CA	1627	1/1	0.72	0.23	76,76,76,76	0
52	MG	DA	3242	1/1	0.72	0.20	84,84,84,84	0
52	MG	DA	3076	1/1	0.72	0.27	56,56,56,56	0
52	MG	AA	1626	1/1	0.72	0.20	84,84,84,84	0
52	MG	BA	3039	1/1	0.72	0.41	57,57,57,57	0
52	MG	CA	1631	1/1	0.73	0.24	95,95,95,95	0
52	MG	BA	3327	1/1	0.73	0.37	70,70,70,70	0
52	MG	DA	3296	1/1	0.73	0.35	104,104,104,104	0
52	MG	CA	1630	1/1	0.73	0.34	74,74,74,74	0
52	MG	DA	3203	1/1	0.74	0.17	55,55,55,55	0
52	MG	DA	3292	1/1	0.74	0.32	60,60,60,60	0
52	MG	BA	3326	1/1	0.75	0.14	60,60,60,60	0
52	MG	DA	3071	1/1	0.75	0.42	85,85,85,85	0
52	MG	CA	1614	1/1	0.75	0.23	80,80,80,80	0
52	MG	AA	1604	1/1	0.76	0.24	100,100,100,100	0
52	MG	CA	1612	1/1	0.76	0.18	70,70,70,70	0
52	MG	BA	3112	1/1	0.76	0.20	43,43,43,43	0
52	MG	DA	3251	1/1	0.76	0.35	91,91,91,91	0
52	MG	CA	1625	1/1	0.76	0.31	70,70,70,70	0

*Continued on next page...*

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
52	MG	DA	3154	1/1	0.76	0.29	66,66,66,66	0
52	MG	DA	3273	1/1	0.76	0.22	80,80,80,80	0
52	MG	DA	3157	1/1	0.76	0.21	72,72,72,72	0
52	MG	CA	1626	1/1	0.76	0.41	70,70,70,70	0
52	MG	AA	1618	1/1	0.76	0.52	81,81,81,81	0
52	MG	BA	3166	1/1	0.77	0.51	75,75,75,75	0
52	MG	DA	3159	1/1	0.77	0.22	39,39,39,39	0
52	MG	BA	3237	1/1	0.78	0.35	60,60,60,60	0
52	MG	BA	3348	1/1	0.78	0.19	73,73,73,73	0
52	MG	CA	1632	1/1	0.78	0.21	76,76,76,76	0
52	MG	DA	3182	1/1	0.78	0.35	54,54,54,54	0
52	MG	BA	3093	1/1	0.78	0.33	57,57,57,57	0
52	MG	AA	1633	1/1	0.78	0.09	90,90,90,90	0
52	MG	DA	3123	1/1	0.78	0.09	67,67,67,67	0
52	MG	CA	1643	1/1	0.78	0.47	93,93,93,93	0
52	MG	BF	301	1/1	0.79	0.11	59,59,59,59	0
52	MG	CA	1608	1/1	0.79	0.26	90,90,90,90	0
52	MG	CA	1610	1/1	0.79	0.10	106,106,106,106	0
52	MG	CA	1636	1/1	0.79	0.28	74,74,74,74	0
52	MG	DA	3119	1/1	0.79	0.21	56,56,56,56	0
52	MG	BA	3285	1/1	0.79	0.27	56,56,56,56	0
52	MG	DA	3131	1/1	0.79	0.41	66,66,66,66	0
52	MG	BA	3238	1/1	0.79	0.16	70,70,70,70	0
52	MG	DA	3109	1/1	0.80	0.09	60,60,60,60	0
52	MG	BA	3302	1/1	0.80	0.20	67,67,67,67	0
52	MG	CA	1617	1/1	0.80	0.39	74,74,74,74	0
52	MG	DA	3163	1/1	0.80	0.17	77,77,77,77	0
52	MG	DA	3179	1/1	0.80	0.33	67,67,67,67	0
52	MG	DA	3120	1/1	0.80	0.22	84,84,84,84	0
52	MG	DA	3285	1/1	0.80	0.24	70,70,70,70	0
52	MG	BA	3098	1/1	0.80	0.22	76,76,76,76	0
52	MG	BA	3246	1/1	0.80	0.36	68,68,68,68	0
52	MG	DA	3090	1/1	0.80	0.43	53,53,53,53	0
52	MG	DR	201	1/1	0.80	0.39	45,45,45,45	0
52	MG	BA	3162	1/1	0.81	0.28	69,69,69,69	0
52	MG	CA	1606	1/1	0.81	0.34	73,73,73,73	0
52	MG	DA	3183	1/1	0.81	0.47	80,80,80,80	0
52	MG	DA	3187	1/1	0.81	0.36	53,53,53,53	0
52	MG	BA	3343	1/1	0.81	0.14	51,51,51,51	0
52	MG	BA	3305	1/1	0.81	0.26	72,72,72,72	0
52	MG	CA	1628	1/1	0.81	0.24	92,92,92,92	0
52	MG	DA	3297	1/1	0.81	0.25	93,93,93,93	0

Continued on next page...

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
52	MG	BA	3211	1/1	0.81	0.30	38,38,38,38	0
52	MG	BB	206	1/1	0.81	0.33	66,66,66,66	0
52	MG	BA	3151	1/1	0.82	0.27	68,68,68,68	0
52	MG	CA	1635	1/1	0.82	0.37	80,80,80,80	0
52	MG	DA	3260	1/1	0.82	0.26	73,73,73,73	0
52	MG	BA	3289	1/1	0.82	0.10	66,66,66,66	0
52	MG	AA	1632	1/1	0.82	0.33	70,70,70,70	0
52	MG	DA	3093	1/1	0.82	0.45	49,49,49,49	0
52	MG	DA	3104	1/1	0.82	0.20	85,85,85,85	0
52	MG	CA	1618	1/1	0.82	0.27	84,84,84,84	0
52	MG	DA	3237	1/1	0.82	0.16	56,56,56,56	0
52	MG	DA	3014	1/1	0.82	0.28	76,76,76,76	0
52	MG	DF	301	1/1	0.82	0.18	83,83,83,83	0
52	MG	DA	3116	1/1	0.82	0.17	65,65,65,65	0
52	MG	DA	3094	1/1	0.83	0.36	75,75,75,75	0
52	MG	BA	3296	1/1	0.83	0.12	54,54,54,54	0
52	MG	DA	3028	1/1	0.83	0.27	68,68,68,68	0
52	MG	DA	3037	1/1	0.83	0.32	39,39,39,39	0
52	MG	DA	3053	1/1	0.83	0.29	90,90,90,90	0
52	MG	DA	3264	1/1	0.83	0.14	87,87,87,87	0
52	MG	DA	3269	1/1	0.83	0.26	64,64,64,64	0
52	MG	AA	1625	1/1	0.83	0.20	73,73,73,73	0
52	MG	DA	3271	1/1	0.83	0.34	67,67,67,67	0
52	MG	DA	3184	1/1	0.83	0.27	96,96,96,96	0
52	MG	DA	3284	1/1	0.83	0.36	70,70,70,70	0
52	MG	BA	3286	1/1	0.83	0.21	72,72,72,72	0
52	MG	DA	3192	1/1	0.83	0.24	71,71,71,71	0
52	MG	BA	3160	1/1	0.83	0.47	78,78,78,78	0
52	MG	DA	3205	1/1	0.83	0.23	64,64,64,64	0
52	MG	DA	3299	1/1	0.83	0.18	64,64,64,64	0
52	MG	DA	3086	1/1	0.83	0.30	61,61,61,61	0
52	MG	AA	1650	1/1	0.83	0.28	86,86,86,86	0
52	MG	CA	1649	1/1	0.83	0.20	80,80,80,80	0
52	MG	BA	3307	1/1	0.84	0.38	70,70,70,70	0
52	MG	DA	3113	1/1	0.84	0.18	75,75,75,75	0
52	MG	DA	3222	1/1	0.84	0.24	72,72,72,72	0
52	MG	DA	3224	1/1	0.84	0.39	47,47,47,47	0
52	MG	BA	3309	1/1	0.84	0.24	70,70,70,70	0
52	MG	DA	3085	1/1	0.84	0.25	62,62,62,62	0
52	MG	DA	3176	1/1	0.84	0.36	41,41,41,41	0
52	MG	DA	3034	1/1	0.84	0.37	51,51,51,51	0
52	MG	AA	1636	1/1	0.84	0.17	88,88,88,88	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3255	1/1	0.84	0.16	46,46,46,46	0
52	MG	DA	3300	1/1	0.84	0.26	58,58,58,58	0
52	MG	DA	3128	1/1	0.84	0.33	62,62,62,62	0
52	MG	DA	3318	1/1	0.84	0.20	83,83,83,83	0
52	MG	DB	202	1/1	0.84	0.36	80,80,80,80	0
52	MG	B0	101	1/1	0.84	0.15	48,48,48,48	0
52	MG	DA	3063	1/1	0.84	0.34	72,72,72,72	0
52	MG	DU	201	1/1	0.84	0.25	75,75,75,75	0
52	MG	CA	1604	1/1	0.85	0.16	98,98,98,98	0
52	MG	DA	3194	1/1	0.85	0.18	56,56,56,56	0
52	MG	AA	1622	1/1	0.85	0.32	64,64,64,64	0
52	MG	DA	3115	1/1	0.85	0.29	58,58,58,58	0
52	MG	DA	3087	1/1	0.85	0.23	53,53,53,53	0
52	MG	DA	3118	1/1	0.85	0.30	72,72,72,72	0
52	MG	DA	3286	1/1	0.85	0.12	63,63,63,63	0
52	MG	DA	3289	1/1	0.85	0.29	71,71,71,71	0
52	MG	DA	3171	1/1	0.85	0.21	73,73,73,73	0
52	MG	CA	1646	1/1	0.85	0.23	68,68,68,68	0
52	MG	BA	3228	1/1	0.85	0.35	56,56,56,56	0
52	MG	DA	3180	1/1	0.85	0.34	56,56,56,56	0
52	MG	DA	3122	1/1	0.85	0.13	61,61,61,61	0
52	MG	BA	3251	1/1	0.85	0.22	44,44,44,44	0
52	MG	DA	3316	1/1	0.85	0.32	75,75,75,75	0
52	MG	BA	3232	1/1	0.85	0.20	43,43,43,43	0
52	MG	DA	3186	1/1	0.85	0.14	58,58,58,58	0
52	MG	DA	3261	1/1	0.85	0.28	38,38,38,38	0
52	MG	AA	1610	1/1	0.85	0.15	115,115,115,115	0
52	MG	DA	3268	1/1	0.85	0.40	72,72,72,72	0
52	MG	BA	3188	1/1	0.86	0.19	80,80,80,80	0
52	MG	DA	3256	1/1	0.86	0.31	77,77,77,77	0
52	MG	DA	3259	1/1	0.86	0.35	60,60,60,60	0
52	MG	AA	1637	1/1	0.86	0.21	54,54,54,54	0
52	MG	DA	3112	1/1	0.86	0.09	76,76,76,76	0
52	MG	BA	3292	1/1	0.86	0.12	67,67,67,67	0
52	MG	BA	3295	1/1	0.86	0.30	79,79,79,79	0
52	MG	AA	1644	1/1	0.86	0.33	94,94,94,94	0
52	MG	BA	3350	1/1	0.86	0.32	64,64,64,64	0
52	MG	BA	3086	1/1	0.86	0.14	28,28,28,28	0
52	MG	BA	3360	1/1	0.86	0.20	68,68,68,68	0
52	MG	DA	3276	1/1	0.86	0.41	87,87,87,87	0
52	MG	CA	1639	1/1	0.86	0.33	87,87,87,87	0
52	MG	DA	3079	1/1	0.86	0.27	39,39,39,39	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	CA	1621	1/1	0.86	0.26	78,78,78,78	0
52	MG	DA	3204	1/1	0.86	0.19	48,48,48,48	0
52	MG	BA	3126	1/1	0.86	0.19	56,56,56,56	0
52	MG	DA	3210	1/1	0.86	0.17	49,49,49,49	0
52	MG	DA	3130	1/1	0.86	0.27	83,83,83,83	0
52	MG	DA	3223	1/1	0.86	0.35	62,62,62,62	0
52	MG	BD	302	1/1	0.86	0.17	47,47,47,47	0
52	MG	DA	3148	1/1	0.86	0.34	61,61,61,61	0
52	MG	BA	3176	1/1	0.86	0.41	68,68,68,68	0
52	MG	DA	3007	1/1	0.86	0.25	40,40,40,40	0
52	MG	DA	3013	1/1	0.86	0.23	77,77,77,77	0
52	MG	DA	3102	1/1	0.86	0.22	54,54,54,54	0
52	MG	DA	3250	1/1	0.86	0.19	62,62,62,62	0
52	MG	DA	3103	1/1	0.86	0.46	58,58,58,58	0
52	MG	CA	1616	1/1	0.87	0.21	74,74,74,74	0
52	MG	AA	1651	1/1	0.87	0.24	81,81,81,81	0
52	MG	BA	3165	1/1	0.87	0.12	57,57,57,57	0
52	MG	DA	3206	1/1	0.87	0.45	74,74,74,74	0
52	MG	DA	3155	1/1	0.87	0.21	59,59,59,59	0
52	MG	AA	1640	1/1	0.87	0.31	77,77,77,77	0
52	MG	DA	3278	1/1	0.87	0.53	83,83,83,83	0
52	MG	DA	3068	1/1	0.87	0.12	80,80,80,80	0
52	MG	CA	1640	1/1	0.87	0.27	74,74,74,74	0
52	MG	CA	1624	1/1	0.87	0.22	69,69,69,69	0
52	MG	DA	3287	1/1	0.87	0.16	64,64,64,64	0
52	MG	AA	1648	1/1	0.87	0.25	57,57,57,57	0
52	MG	BA	3115	1/1	0.87	0.10	71,71,71,71	0
52	MG	BA	3122	1/1	0.87	0.26	61,61,61,61	0
52	MG	BA	3074	1/1	0.87	0.22	67,67,67,67	0
52	MG	BA	3337	1/1	0.87	0.38	61,61,61,61	0
52	MG	AA	1613	1/1	0.87	0.23	76,76,76,76	0
52	MG	DA	3309	1/1	0.87	0.15	76,76,76,76	0
52	MG	DA	3254	1/1	0.87	0.15	61,61,61,61	0
52	MG	DA	3185	1/1	0.87	0.33	65,65,65,65	0
52	MG	BA	3088	1/1	0.87	0.21	60,60,60,60	0
52	MG	DA	3095	1/1	0.87	0.14	56,56,56,56	0
52	MG	BA	3161	1/1	0.87	0.24	65,65,65,65	0
52	MG	DA	3142	1/1	0.87	0.29	69,69,69,69	0
52	MG	DA	3197	1/1	0.87	0.20	59,59,59,59	0
52	MG	BA	3034	1/1	0.88	0.27	69,69,69,69	0
52	MG	AA	1617	1/1	0.88	0.27	55,55,55,55	0
52	MG	DA	3211	1/1	0.88	0.36	62,62,62,62	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	DA	3217	1/1	0.88	0.30	55,55,55,55	0
52	MG	BA	3072	1/1	0.88	0.46	59,59,59,59	0
52	MG	DA	3173	1/1	0.88	0.31	48,48,48,48	0
52	MG	DA	3174	1/1	0.88	0.27	35,35,35,35	0
52	MG	DA	3225	1/1	0.88	0.28	81,81,81,81	0
52	MG	AA	1627	1/1	0.88	0.09	71,71,71,71	0
52	MG	DA	3235	1/1	0.88	0.05	48,48,48,48	0
52	MG	AA	1608	1/1	0.88	0.22	71,71,71,71	0
52	MG	CA	1603	1/1	0.88	0.27	57,57,57,57	0
52	MG	BA	3181	1/1	0.88	0.28	54,54,54,54	0
52	MG	DA	3127	1/1	0.88	0.20	40,40,40,40	0
52	MG	BA	3147	1/1	0.88	0.22	55,55,55,55	0
52	MG	BA	3312	1/1	0.88	0.17	55,55,55,55	0
52	MG	DA	3307	1/1	0.88	0.10	65,65,65,65	0
52	MG	BA	3278	1/1	0.88	0.23	62,62,62,62	0
52	MG	BA	3283	1/1	0.88	0.33	70,70,70,70	0
52	MG	DA	3315	1/1	0.88	0.17	69,69,69,69	0
52	MG	DA	3144	1/1	0.88	0.27	65,65,65,65	0
52	MG	BA	3195	1/1	0.88	0.13	40,40,40,40	0
52	MG	DA	3062	1/1	0.88	0.37	76,76,76,76	0
52	MG	AA	1646	1/1	0.88	0.21	53,53,53,53	0
52	MG	BA	3214	1/1	0.88	0.33	55,55,55,55	0
52	MG	BA	3004	1/1	0.88	0.22	31,31,31,31	0
53	ZN	AN	101	1/1	0.88	0.08	181,181,181,181	0
52	MG	BA	3116	1/1	0.89	0.34	67,67,67,67	0
52	MG	DA	3153	1/1	0.89	0.12	80,80,80,80	0
52	MG	DA	3080	1/1	0.89	0.41	59,59,59,59	0
52	MG	DA	3239	1/1	0.89	0.09	65,65,65,65	0
52	MG	DA	3081	1/1	0.89	0.19	58,58,58,58	0
52	MG	DA	3082	1/1	0.89	0.20	50,50,50,50	0
52	MG	AA	1643	1/1	0.89	0.66	85,85,85,85	0
52	MG	DA	3161	1/1	0.89	0.15	72,72,72,72	0
52	MG	CA	1601	1/1	0.89	0.24	85,85,85,85	0
52	MG	DA	3166	1/1	0.89	0.07	55,55,55,55	0
52	MG	DA	3258	1/1	0.89	0.18	70,70,70,70	0
52	MG	DA	3169	1/1	0.89	0.19	49,49,49,49	0
52	MG	BA	3005	1/1	0.89	0.17	56,56,56,56	0
52	MG	DA	3089	1/1	0.89	0.30	54,54,54,54	0
52	MG	BA	3170	1/1	0.89	0.32	44,44,44,44	0
52	MG	CA	1605	1/1	0.89	0.20	102,102,102,102	0
52	MG	BA	3241	1/1	0.89	0.32	69,69,69,69	0
52	MG	CA	1642	1/1	0.89	0.18	80,80,80,80	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3130	1/1	0.89	0.50	65,65,65,65	0
52	MG	BA	3310	1/1	0.89	0.33	74,74,74,74	0
52	MG	BA	3146	1/1	0.89	0.27	56,56,56,56	0
52	MG	BA	3182	1/1	0.89	0.22	54,54,54,54	0
52	MG	DA	3283	1/1	0.89	0.32	57,57,57,57	0
52	MG	D7	101	1/1	0.89	0.17	58,58,58,58	0
52	MG	D8	101	1/1	0.89	0.26	66,66,66,66	0
52	MG	CA	1615	1/1	0.89	0.17	69,69,69,69	0
52	MG	BA	3276	1/1	0.89	0.26	76,76,76,76	0
52	MG	BA	3184	1/1	0.89	0.36	62,62,62,62	0
52	MG	DA	3199	1/1	0.89	0.23	74,74,74,74	0
52	MG	DA	3294	1/1	0.89	0.18	50,50,50,50	0
52	MG	DA	3016	1/1	0.89	0.41	54,54,54,54	0
52	MG	BA	3338	1/1	0.89	0.06	61,61,61,61	0
52	MG	BA	3064	1/1	0.89	0.25	45,45,45,45	0
52	MG	CA	1622	1/1	0.89	0.19	75,75,75,75	0
52	MG	BA	3027	1/1	0.89	0.26	19,19,19,19	0
52	MG	DA	3308	1/1	0.89	0.43	75,75,75,75	0
52	MG	BA	3209	1/1	0.89	0.16	51,51,51,51	0
52	MG	BA	3156	1/1	0.89	0.33	31,31,31,31	0
52	MG	BA	3031	1/1	0.89	0.28	66,66,66,66	0
52	MG	DA	3065	1/1	0.89	0.18	70,70,70,70	0
52	MG	BB	203	1/1	0.89	0.10	82,82,82,82	0
52	MG	BA	3076	1/1	0.89	0.11	29,29,29,29	0
52	MG	DA	3226	1/1	0.89	0.50	73,73,73,73	0
52	MG	DA	3145	1/1	0.89	0.19	57,57,57,57	0
52	MG	DA	3232	1/1	0.89	0.25	56,56,56,56	0
52	MG	BD	301	1/1	0.89	0.40	51,51,51,51	0
52	MG	AA	1629	1/1	0.90	0.39	83,83,83,83	0
52	MG	BA	3353	1/1	0.90	0.15	73,73,73,73	0
52	MG	DA	3083	1/1	0.90	0.19	43,43,43,43	0
52	MG	BA	3355	1/1	0.90	0.24	78,78,78,78	0
52	MG	AA	1630	1/1	0.90	0.33	75,75,75,75	0
52	MG	DA	3165	1/1	0.90	0.26	53,53,53,53	0
52	MG	BA	3185	1/1	0.90	0.20	61,61,61,61	0
52	MG	BA	3284	1/1	0.90	0.13	34,34,34,34	0
52	MG	CA	1638	1/1	0.90	0.19	62,62,62,62	0
52	MG	DA	3257	1/1	0.90	0.17	72,72,72,72	0
52	MG	DA	3092	1/1	0.90	0.18	61,61,61,61	0
52	MG	BA	3001	1/1	0.90	0.15	55,55,55,55	0
52	MG	BA	3101	1/1	0.90	0.22	17,17,17,17	0
52	MG	BA	3202	1/1	0.90	0.16	49,49,49,49	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	AA	1623	1/1	0.90	0.31	50,50,50,50	0
52	MG	DA	3265	1/1	0.90	0.18	61,61,61,61	0
52	MG	AA	1641	1/1	0.90	0.22	57,57,57,57	0
52	MG	BA	3010	1/1	0.90	0.34	53,53,53,53	0
52	MG	DA	3107	1/1	0.90	0.33	42,42,42,42	0
52	MG	BA	3164	1/1	0.90	0.23	40,40,40,40	0
52	MG	DA	3110	1/1	0.90	0.41	46,46,46,46	0
52	MG	BA	3301	1/1	0.90	0.22	52,52,52,52	0
52	MG	DA	3188	1/1	0.90	0.40	81,81,81,81	0
52	MG	DA	3280	1/1	0.90	0.19	67,67,67,67	0
52	MG	DA	3281	1/1	0.90	0.34	87,87,87,87	0
52	MG	DA	3282	1/1	0.90	0.14	59,59,59,59	0
52	MG	BA	3224	1/1	0.90	0.07	43,43,43,43	0
52	MG	DA	3004	1/1	0.90	0.18	39,39,39,39	0
52	MG	BA	3303	1/1	0.90	0.19	36,36,36,36	0
52	MG	DA	3198	1/1	0.90	0.19	53,53,53,53	0
52	MG	BA	3226	1/1	0.90	0.26	42,42,42,42	0
52	MG	BA	3025	1/1	0.90	0.25	64,64,64,64	0
52	MG	BA	3123	1/1	0.90	0.29	48,48,48,48	0
52	MG	BA	3234	1/1	0.90	0.15	40,40,40,40	0
52	MG	DA	3295	1/1	0.90	0.33	65,65,65,65	0
52	MG	BA	3168	1/1	0.90	0.18	59,59,59,59	0
52	MG	BA	3321	1/1	0.90	0.18	69,69,69,69	0
52	MG	DA	3046	1/1	0.90	0.33	49,49,49,49	0
52	MG	DA	3216	1/1	0.90	0.35	78,78,78,78	0
52	MG	DA	3301	1/1	0.90	0.41	67,67,67,67	0
52	MG	DA	3302	1/1	0.90	0.30	64,64,64,64	0
52	MG	BA	3081	1/1	0.90	0.27	39,39,39,39	0
52	MG	DA	3219	1/1	0.90	0.14	49,49,49,49	0
52	MG	CA	1620	1/1	0.90	0.21	70,70,70,70	0
52	MG	BA	3175	1/1	0.90	0.08	50,50,50,50	0
52	MG	DA	3314	1/1	0.90	0.23	54,54,54,54	0
52	MG	BA	3333	1/1	0.90	0.08	48,48,48,48	0
52	MG	BA	3335	1/1	0.90	0.19	55,55,55,55	0
52	MG	DA	3317	1/1	0.90	0.19	60,60,60,60	0
52	MG	BA	3243	1/1	0.90	0.21	39,39,39,39	0
52	MG	BA	3127	1/1	0.90	0.29	48,48,48,48	0
52	MG	BA	3341	1/1	0.90	0.16	67,67,67,67	0
52	MG	DA	3234	1/1	0.90	0.18	73,73,73,73	0
52	MG	BA	3179	1/1	0.90	0.36	55,55,55,55	0
52	MG	AA	1620	1/1	0.90	0.22	95,95,95,95	0
52	MG	AA	1628	1/1	0.91	0.29	65,65,65,65	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	DA	3077	1/1	0.91	0.20	46,46,46,46	0
52	MG	BA	3220	1/1	0.91	0.27	36,36,36,36	0
52	MG	BA	3038	1/1	0.91	0.31	25,25,25,25	0
52	MG	BA	3152	1/1	0.91	0.12	58,58,58,58	0
52	MG	BA	3356	1/1	0.91	0.23	75,75,75,75	0
52	MG	DA	3168	1/1	0.91	0.15	64,64,64,64	0
52	MG	BA	3180	1/1	0.91	0.29	68,68,68,68	0
52	MG	BA	3154	1/1	0.91	0.23	73,73,73,73	0
52	MG	AA	1638	1/1	0.91	0.23	91,91,91,91	0
52	MG	CA	1637	1/1	0.91	0.25	85,85,85,85	0
52	MG	BA	3117	1/1	0.91	0.28	58,58,58,58	0
52	MG	BA	3063	1/1	0.91	0.35	57,57,57,57	0
52	MG	BA	3090	1/1	0.91	0.17	22,22,22,22	0
52	MG	DA	3181	1/1	0.91	0.16	62,62,62,62	0
52	MG	BA	3304	1/1	0.91	0.22	41,41,41,41	0
52	MG	BP	203	1/1	0.91	0.10	29,29,29,29	0
52	MG	BA	3190	1/1	0.91	0.24	34,34,34,34	0
52	MG	DA	3274	1/1	0.91	0.14	68,68,68,68	0
52	MG	DA	3275	1/1	0.91	0.37	72,72,72,72	0
52	MG	AA	1639	1/1	0.91	0.45	77,77,77,77	0
52	MG	DA	3277	1/1	0.91	0.16	66,66,66,66	0
52	MG	BA	3308	1/1	0.91	0.12	55,55,55,55	0
52	MG	BA	3200	1/1	0.91	0.33	55,55,55,55	0
52	MG	BA	3252	1/1	0.91	0.17	72,72,72,72	0
52	MG	AA	1605	1/1	0.91	0.22	106,106,106,106	0
52	MG	DA	3006	1/1	0.91	0.35	40,40,40,40	0
52	MG	BA	3256	1/1	0.91	0.21	43,43,43,43	0
52	MG	BA	3264	1/1	0.91	0.16	58,58,58,58	0
52	MG	CA	1613	1/1	0.91	0.32	87,87,87,87	0
52	MG	DA	3201	1/1	0.91	0.22	46,46,46,46	0
52	MG	DA	3202	1/1	0.91	0.20	73,73,73,73	0
52	MG	DA	3291	1/1	0.91	0.42	88,88,88,88	0
52	MG	BA	3271	1/1	0.91	0.36	57,57,57,57	0
52	MG	DA	3017	1/1	0.91	0.15	55,55,55,55	0
52	MG	DA	3024	1/1	0.91	0.24	54,54,54,54	0
52	MG	BA	3329	1/1	0.91	0.28	65,65,65,65	0
52	MG	DA	3030	1/1	0.91	0.19	66,66,66,66	0
52	MG	DA	3033	1/1	0.91	0.26	63,63,63,63	0
52	MG	BA	3332	1/1	0.91	0.18	65,65,65,65	0
52	MG	BA	3203	1/1	0.91	0.19	53,53,53,53	0
52	MG	DA	3038	1/1	0.91	0.18	68,68,68,68	0
52	MG	BA	3128	1/1	0.91	0.21	63,63,63,63	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3336	1/1	0.91	0.28	61,61,61,61	0
52	MG	DA	3132	1/1	0.91	0.19	72,72,72,72	0
52	MG	DA	3136	1/1	0.91	0.20	81,81,81,81	0
52	MG	DA	3313	1/1	0.91	0.22	64,64,64,64	0
52	MG	DA	3055	1/1	0.91	0.19	38,38,38,38	0
52	MG	BA	3280	1/1	0.91	0.23	80,80,80,80	0
52	MG	DA	3231	1/1	0.91	0.10	42,42,42,42	0
52	MG	BA	3282	1/1	0.91	0.22	49,49,49,49	0
52	MG	DA	3146	1/1	0.91	0.33	59,59,59,59	0
52	MG	BA	3339	1/1	0.91	0.24	74,74,74,74	0
52	MG	AA	1615	1/1	0.91	0.25	72,72,72,72	0
52	MG	BA	3108	1/1	0.91	0.22	43,43,43,43	0
52	MG	DA	3070	1/1	0.91	0.36	52,52,52,52	0
52	MG	DX	101	1/1	0.91	0.17	76,76,76,76	0
52	MG	BA	3346	1/1	0.91	0.21	61,61,61,61	0
54	K	DA	3319	1/1	0.91	0.12	82,82,82,82	0
52	MG	BA	3331	1/1	0.92	0.16	52,52,52,52	0
52	MG	CA	1647	1/1	0.92	0.16	78,78,78,78	0
52	MG	BA	3216	1/1	0.92	0.14	46,46,46,46	0
52	MG	BA	3140	1/1	0.92	0.18	78,78,78,78	0
52	MG	CA	1611	1/1	0.92	0.15	72,72,72,72	0
52	MG	BA	3334	1/1	0.92	0.18	61,61,61,61	0
52	MG	BA	3173	1/1	0.92	0.32	46,46,46,46	0
52	MG	BA	3142	1/1	0.92	0.25	47,47,47,47	0
52	MG	BA	3144	1/1	0.92	0.35	43,43,43,43	0
52	MG	DA	3012	1/1	0.92	0.15	29,29,29,29	0
52	MG	DA	3098	1/1	0.92	0.17	38,38,38,38	0
52	MG	AA	1635	1/1	0.92	0.23	50,50,50,50	0
52	MG	BA	3105	1/1	0.92	0.24	32,32,32,32	0
52	MG	BA	3150	1/1	0.92	0.21	50,50,50,50	0
52	MG	DA	3106	1/1	0.92	0.44	50,50,50,50	0
52	MG	AA	1619	1/1	0.92	0.28	55,55,55,55	0
52	MG	DA	3272	1/1	0.92	0.35	78,78,78,78	0
52	MG	DA	3022	1/1	0.92	0.22	38,38,38,38	0
52	MG	AA	1652	1/1	0.92	0.14	83,83,83,83	0
52	MG	BA	3239	1/1	0.92	0.17	61,61,61,61	0
52	MG	CA	1623	1/1	0.92	0.20	79,79,79,79	0
52	MG	BA	3153	1/1	0.92	0.28	62,62,62,62	0
52	MG	BA	3242	1/1	0.92	0.33	71,71,71,71	0
52	MG	AA	1607	1/1	0.92	0.29	81,81,81,81	0
52	MG	DA	3117	1/1	0.92	0.20	59,59,59,59	0
52	MG	BA	3244	1/1	0.92	0.18	44,44,44,44	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3083	1/1	0.92	0.33	45,45,45,45	0
52	MG	CA	1629	1/1	0.92	0.09	69,69,69,69	0
52	MG	BA	3192	1/1	0.92	0.30	42,42,42,42	0
52	MG	DA	3057	1/1	0.92	0.19	60,60,60,60	0
52	MG	DA	3058	1/1	0.92	0.28	42,42,42,42	0
52	MG	BA	3047	1/1	0.92	0.33	41,41,41,41	0
52	MG	DA	3290	1/1	0.92	0.30	74,74,74,74	0
52	MG	BB	205	1/1	0.92	0.14	90,90,90,90	0
52	MG	BA	3053	1/1	0.92	0.27	33,33,33,33	0
52	MG	DA	3214	1/1	0.92	0.20	33,33,33,33	0
52	MG	BA	3055	1/1	0.92	0.20	31,31,31,31	0
52	MG	DA	3066	1/1	0.92	0.16	52,52,52,52	0
52	MG	DA	3218	1/1	0.92	0.31	53,53,53,53	0
52	MG	DA	3140	1/1	0.92	0.23	46,46,46,46	0
52	MG	DA	3067	1/1	0.92	0.26	57,57,57,57	0
52	MG	AA	1616	1/1	0.92	0.16	68,68,68,68	0
52	MG	BA	3313	1/1	0.92	0.37	61,61,61,61	0
52	MG	BP	201	1/1	0.92	0.13	17,17,17,17	0
52	MG	DA	3075	1/1	0.92	0.21	50,50,50,50	0
52	MG	DA	3149	1/1	0.92	0.27	51,51,51,51	0
52	MG	DA	3230	1/1	0.92	0.10	69,69,69,69	0
52	MG	BA	3314	1/1	0.92	0.31	63,63,63,63	0
52	MG	DA	3152	1/1	0.92	0.19	66,66,66,66	0
52	MG	BA	3096	1/1	0.92	0.25	33,33,33,33	0
52	MG	BA	3029	1/1	0.92	0.19	30,30,30,30	0
52	MG	BA	3100	1/1	0.92	0.30	40,40,40,40	0
52	MG	DA	3156	1/1	0.92	0.20	44,44,44,44	0
52	MG	BA	3279	1/1	0.92	0.33	62,62,62,62	0
52	MG	CA	1645	1/1	0.92	0.26	64,64,64,64	0
52	MG	DA	3240	1/1	0.92	0.05	47,47,47,47	0
52	MG	DA	3241	1/1	0.92	0.14	48,48,48,48	0
52	MG	DA	3160	1/1	0.92	0.29	51,51,51,51	0
52	MG	DA	3243	1/1	0.92	0.10	94,94,94,94	0
52	MG	DA	3247	1/1	0.92	0.14	61,61,61,61	0
52	MG	BA	3347	1/1	0.93	0.14	58,58,58,58	0
52	MG	DA	3190	1/1	0.93	0.06	49,49,49,49	0
52	MG	BA	3269	1/1	0.93	0.24	45,45,45,45	0
52	MG	DA	3262	1/1	0.93	0.30	55,55,55,55	0
52	MG	DA	3263	1/1	0.93	0.29	55,55,55,55	0
52	MG	BA	3077	1/1	0.93	0.19	40,40,40,40	0
52	MG	DA	3135	1/1	0.93	0.19	74,74,74,74	0
52	MG	DA	3266	1/1	0.93	0.35	55,55,55,55	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3009	1/1	0.93	0.27	44,44,44,44	0
52	MG	DA	3138	1/1	0.93	0.16	35,35,35,35	0
52	MG	DA	3139	1/1	0.93	0.26	48,48,48,48	0
52	MG	BA	3163	1/1	0.93	0.22	45,45,45,45	0
52	MG	BA	3311	1/1	0.93	0.35	69,69,69,69	0
52	MG	BA	3357	1/1	0.93	0.11	66,66,66,66	0
52	MG	AA	1634	1/1	0.93	0.26	54,54,54,54	0
52	MG	BA	3111	1/1	0.93	0.10	19,19,19,19	0
52	MG	BA	3281	1/1	0.93	0.10	45,45,45,45	0
52	MG	BA	3315	1/1	0.93	0.24	62,62,62,62	0
52	MG	DA	3212	1/1	0.93	0.09	71,71,71,71	0
52	MG	DA	3025	1/1	0.93	0.27	61,61,61,61	0
52	MG	DA	3151	1/1	0.93	0.13	66,66,66,66	0
52	MG	DA	3091	1/1	0.93	0.32	44,44,44,44	0
52	MG	DA	3027	1/1	0.93	0.31	43,43,43,43	0
52	MG	BA	3318	1/1	0.93	0.09	55,55,55,55	0
52	MG	BA	3319	1/1	0.93	0.35	60,60,60,60	0
52	MG	DA	3032	1/1	0.93	0.18	51,51,51,51	0
52	MG	BA	3059	1/1	0.93	0.26	46,46,46,46	0
52	MG	BA	3196	1/1	0.93	0.27	66,66,66,66	0
52	MG	BA	3198	1/1	0.93	0.22	24,24,24,24	0
52	MG	DA	3227	1/1	0.93	0.26	79,79,79,79	0
52	MG	DA	3228	1/1	0.93	0.17	57,57,57,57	0
52	MG	DA	3293	1/1	0.93	0.13	60,60,60,60	0
52	MG	BA	3199	1/1	0.93	0.28	39,39,39,39	0
52	MG	DA	3162	1/1	0.93	0.21	80,80,80,80	0
52	MG	BA	3114	1/1	0.93	0.18	49,49,49,49	0
52	MG	AA	1603	1/1	0.93	0.21	45,45,45,45	0
52	MG	DA	3233	1/1	0.93	0.06	57,57,57,57	0
52	MG	BA	3089	1/1	0.93	0.09	20,20,20,20	0
52	MG	DA	3167	1/1	0.93	0.07	45,45,45,45	0
52	MG	AA	1621	1/1	0.93	0.38	51,51,51,51	0
52	MG	DA	3305	1/1	0.93	0.07	80,80,80,80	0
52	MG	BA	3120	1/1	0.93	0.18	65,65,65,65	0
52	MG	DA	3170	1/1	0.93	0.38	76,76,76,76	0
52	MG	CA	1607	1/1	0.93	0.29	74,74,74,74	0
52	MG	DA	3310	1/1	0.93	0.22	54,54,54,54	0
52	MG	BA	3070	1/1	0.93	0.18	25,25,25,25	0
52	MG	DA	3312	1/1	0.93	0.10	53,53,53,53	0
52	MG	BA	3300	1/1	0.93	0.17	56,56,56,56	0
52	MG	BA	3041	1/1	0.93	0.17	22,22,22,22	0
52	MG	AA	1647	1/1	0.93	0.10	72,72,72,72	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
52	MG	DA	3244	1/1	0.93	0.21	69,69,69,69	0
52	MG	BA	3340	1/1	0.93	0.09	83,83,83,83	0
52	MG	BA	3259	1/1	0.93	0.12	47,47,47,47	0
52	MG	DA	3069	1/1	0.93	0.34	54,54,54,54	0
52	MG	DA	3253	1/1	0.93	0.08	51,51,51,51	0
52	MG	BA	3262	1/1	0.93	0.33	68,68,68,68	0
52	MG	DR	202	1/1	0.93	0.12	50,50,50,50	0
52	MG	D5	101	1/1	0.93	0.41	51,51,51,51	0
52	MG	DA	3073	1/1	0.93	0.42	55,55,55,55	0
52	MG	BA	3049	1/1	0.93	0.25	26,26,26,26	0
54	K	BA	3361	1/1	0.93	0.09	69,69,69,69	0
52	MG	DA	3129	1/1	0.93	0.09	48,48,48,48	0
55	TEL	DA	3320	58/58	0.93	0.25	110,110,110,110	0
52	MG	BA	3028	1/1	0.94	0.32	30,30,30,30	0
52	MG	B7	101	1/1	0.94	0.10	42,42,42,42	0
52	MG	DA	3252	1/1	0.94	0.15	55,55,55,55	0
52	MG	DA	3088	1/1	0.94	0.19	53,53,53,53	0
52	MG	BA	3050	1/1	0.94	0.18	34,34,34,34	0
52	MG	BA	3052	1/1	0.94	0.12	17,17,17,17	0
52	MG	BA	3257	1/1	0.94	0.07	19,19,19,19	0
52	MG	DA	3008	1/1	0.94	0.34	50,50,50,50	0
52	MG	AA	1611	1/1	0.94	0.18	50,50,50,50	0
52	MG	BA	3201	1/1	0.94	0.18	52,52,52,52	0
52	MG	DA	3175	1/1	0.94	0.13	68,68,68,68	0
52	MG	BA	3263	1/1	0.94	0.27	54,54,54,54	0
52	MG	DA	3178	1/1	0.94	0.44	52,52,52,52	0
52	MG	DA	3097	1/1	0.94	0.18	51,51,51,51	0
52	MG	BA	3032	1/1	0.94	0.23	39,39,39,39	0
52	MG	DA	3101	1/1	0.94	0.39	57,57,57,57	0
52	MG	BA	3057	1/1	0.94	0.07	40,40,40,40	0
52	MG	DA	3020	1/1	0.94	0.22	74,74,74,74	0
52	MG	DA	3021	1/1	0.94	0.17	42,42,42,42	0
52	MG	BA	3205	1/1	0.94	0.43	68,68,68,68	0
52	MG	BA	3274	1/1	0.94	0.14	36,36,36,36	0
52	MG	BA	3330	1/1	0.94	0.35	64,64,64,64	0
52	MG	BA	3207	1/1	0.94	0.15	34,34,34,34	0
52	MG	DA	3111	1/1	0.94	0.17	56,56,56,56	0
52	MG	BA	3277	1/1	0.94	0.24	49,49,49,49	0
52	MG	BA	3011	1/1	0.94	0.22	22,22,22,22	0
52	MG	DA	3031	1/1	0.94	0.33	61,61,61,61	0
52	MG	BA	3132	1/1	0.94	0.17	59,59,59,59	0
52	MG	DA	3279	1/1	0.94	0.20	55,55,55,55	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3135	1/1	0.94	0.21	30,30,30,30	0
52	MG	BA	3174	1/1	0.94	0.05	51,51,51,51	0
52	MG	DA	3036	1/1	0.94	0.29	54,54,54,54	0
52	MG	BA	3060	1/1	0.94	0.27	59,59,59,59	0
52	MG	BA	3099	1/1	0.94	0.16	45,45,45,45	0
52	MG	DA	3040	1/1	0.94	0.18	36,36,36,36	0
52	MG	DA	3042	1/1	0.94	0.16	48,48,48,48	0
52	MG	DA	3208	1/1	0.94	0.21	43,43,43,43	0
52	MG	DA	3288	1/1	0.94	0.10	32,32,32,32	0
52	MG	BA	3177	1/1	0.94	0.28	57,57,57,57	0
52	MG	DA	3050	1/1	0.94	0.21	39,39,39,39	0
52	MG	DA	3052	1/1	0.94	0.15	44,44,44,44	0
52	MG	BA	3178	1/1	0.94	0.17	25,25,25,25	0
52	MG	DA	3215	1/1	0.94	0.20	61,61,61,61	0
52	MG	BA	3036	1/1	0.94	0.06	0,0,0,0	0
52	MG	BA	3287	1/1	0.94	0.30	59,59,59,59	0
52	MG	DA	3134	1/1	0.94	0.34	61,61,61,61	0
52	MG	BA	3344	1/1	0.94	0.08	43,43,43,43	0
52	MG	DA	3220	1/1	0.94	0.13	68,68,68,68	0
52	MG	DA	3221	1/1	0.94	0.13	62,62,62,62	0
52	MG	BA	3230	1/1	0.94	0.24	44,44,44,44	0
52	MG	DA	3061	1/1	0.94	0.11	40,40,40,40	0
52	MG	DA	3303	1/1	0.94	0.25	57,57,57,57	0
52	MG	DA	3304	1/1	0.94	0.12	67,67,67,67	0
52	MG	BA	3037	1/1	0.94	0.14	14,14,14,14	0
52	MG	BA	3233	1/1	0.94	0.17	54,54,54,54	0
52	MG	BA	3066	1/1	0.94	0.21	36,36,36,36	0
52	MG	BA	3352	1/1	0.94	0.19	53,53,53,53	0
52	MG	BA	3235	1/1	0.94	0.22	43,43,43,43	0
52	MG	BA	3298	1/1	0.94	0.36	65,65,65,65	0
52	MG	BA	3299	1/1	0.94	0.23	43,43,43,43	0
52	MG	BA	3067	1/1	0.94	0.19	38,38,38,38	0
52	MG	BA	3013	1/1	0.94	0.23	33,33,33,33	0
52	MG	AA	1642	1/1	0.94	0.07	58,58,58,58	0
52	MG	DA	3074	1/1	0.94	0.28	56,56,56,56	0
52	MG	BB	201	1/1	0.94	0.25	47,47,47,47	0
52	MG	BB	202	1/1	0.94	0.33	44,44,44,44	0
52	MG	DB	201	1/1	0.94	0.28	59,59,59,59	0
52	MG	BA	3186	1/1	0.94	0.15	44,44,44,44	0
52	MG	DA	3078	1/1	0.94	0.14	62,62,62,62	0
52	MG	AA	1609	1/1	0.94	0.20	65,65,65,65	0
52	MG	DA	3158	1/1	0.94	0.32	71,71,71,71	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
52	MG	BA	3043	1/1	0.94	0.11	39,39,39,39	0
52	MG	BA	3306	1/1	0.94	0.26	70,70,70,70	0
52	MG	BA	3191	1/1	0.94	0.17	59,59,59,59	0
52	MG	BA	3045	1/1	0.94	0.15	22,22,22,22	0
52	MG	BA	3250	1/1	0.94	0.10	40,40,40,40	0
52	MG	DA	3249	1/1	0.94	0.21	69,69,69,69	0
52	MG	BA	3231	1/1	0.95	0.11	31,31,31,31	0
52	MG	BA	3288	1/1	0.95	0.12	55,55,55,55	0
52	MG	BA	3054	1/1	0.95	0.15	50,50,50,50	0
52	MG	DA	3044	1/1	0.95	0.23	39,39,39,39	0
52	MG	BA	3102	1/1	0.95	0.14	41,41,41,41	0
52	MG	DA	3048	1/1	0.95	0.21	51,51,51,51	0
52	MG	DA	3049	1/1	0.95	0.07	54,54,54,54	0
52	MG	BA	3291	1/1	0.95	0.18	45,45,45,45	0
52	MG	DA	3191	1/1	0.95	0.29	48,48,48,48	0
52	MG	BA	3103	1/1	0.95	0.12	31,31,31,31	0
52	MG	DA	3193	1/1	0.95	0.23	54,54,54,54	0
52	MG	BA	3145	1/1	0.95	0.20	54,54,54,54	0
52	MG	DA	3121	1/1	0.95	0.45	64,64,64,64	0
52	MG	BA	3236	1/1	0.95	0.26	38,38,38,38	0
52	MG	DA	3056	1/1	0.95	0.36	51,51,51,51	0
52	MG	DA	3126	1/1	0.95	0.10	57,57,57,57	0
52	MG	BA	3104	1/1	0.95	0.07	45,45,45,45	0
52	MG	AA	1624	1/1	0.95	0.24	55,55,55,55	0
52	MG	BA	3187	1/1	0.95	0.30	60,60,60,60	0
52	MG	BA	3106	1/1	0.95	0.26	43,43,43,43	0
52	MG	BA	3189	1/1	0.95	0.26	40,40,40,40	0
52	MG	BA	3040	1/1	0.95	0.28	49,49,49,49	0
52	MG	DA	3209	1/1	0.95	0.31	58,58,58,58	0
52	MG	BA	3079	1/1	0.95	0.13	48,48,48,48	0
52	MG	BA	3012	1/1	0.95	0.34	61,61,61,61	0
52	MG	CA	1641	1/1	0.95	0.11	54,54,54,54	0
52	MG	DA	3213	1/1	0.95	0.22	44,44,44,44	0
52	MG	BA	3248	1/1	0.95	0.14	57,57,57,57	0
52	MG	BA	3194	1/1	0.95	0.18	27,27,27,27	0
52	MG	CA	1644	1/1	0.95	0.16	86,86,86,86	0
52	MG	DA	3141	1/1	0.95	0.10	65,65,65,65	0
52	MG	B5	102	1/1	0.95	0.25	80,80,80,80	0
52	MG	DA	3072	1/1	0.95	0.17	42,42,42,42	0
52	MG	BA	3061	1/1	0.95	0.20	36,36,36,36	0
52	MG	BA	3159	1/1	0.95	0.37	58,58,58,58	0
52	MG	DA	3147	1/1	0.95	0.29	35,35,35,35	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
52	MG	BA	3087	1/1	0.95	0.07	18,18,18,18	0
52	MG	BA	3014	1/1	0.95	0.36	46,46,46,46	0
52	MG	BA	3258	1/1	0.95	0.15	57,57,57,57	0
52	MG	BX	101	1/1	0.95	0.09	58,58,58,58	0
52	MG	BA	3118	1/1	0.95	0.19	44,44,44,44	0
52	MG	CA	1602	1/1	0.95	0.45	73,73,73,73	0
52	MG	BA	3119	1/1	0.95	0.17	47,47,47,47	0
52	MG	BA	3033	1/1	0.95	0.06	27,27,27,27	0
52	MG	BA	3121	1/1	0.95	0.20	51,51,51,51	0
52	MG	BA	3268	1/1	0.95	0.16	60,60,60,60	0
52	MG	DA	3306	1/1	0.95	0.20	63,63,63,63	0
52	MG	BA	3324	1/1	0.95	0.38	64,64,64,64	0
52	MG	BA	3325	1/1	0.95	0.18	49,49,49,49	0
52	MG	CA	1609	1/1	0.95	0.12	48,48,48,48	0
52	MG	BA	3206	1/1	0.95	0.12	36,36,36,36	0
52	MG	DA	3019	1/1	0.95	0.33	42,42,42,42	0
52	MG	BA	3019	1/1	0.95	0.26	26,26,26,26	0
52	MG	BA	3023	1/1	0.95	0.19	31,31,31,31	0
52	MG	BA	3210	1/1	0.95	0.20	46,46,46,46	0
52	MG	BA	3125	1/1	0.95	0.06	53,53,53,53	0
52	MG	BA	3171	1/1	0.95	0.27	45,45,45,45	0
52	MG	DA	3026	1/1	0.95	0.26	32,32,32,32	0
52	MG	BA	3094	1/1	0.95	0.43	47,47,47,47	0
52	MG	DA	3246	1/1	0.95	0.16	70,70,70,70	0
52	MG	BA	3095	1/1	0.95	0.14	43,43,43,43	0
52	MG	DB	203	1/1	0.95	0.27	47,47,47,47	0
52	MG	DD	302	1/1	0.95	0.12	38,38,38,38	0
52	MG	AA	1606	1/1	0.95	0.24	63,63,63,63	0
52	MG	CA	1619	1/1	0.95	0.21	61,61,61,61	0
52	MG	BA	3222	1/1	0.95	0.18	58,58,58,58	0
52	MG	BA	3071	1/1	0.95	0.16	32,32,32,32	0
52	MG	DA	3177	1/1	0.95	0.36	48,48,48,48	0
52	MG	AA	1649	1/1	0.95	0.15	68,68,68,68	0
52	MG	DA	3108	1/1	0.95	0.07	56,56,56,56	0
52	MG	BA	3134	1/1	0.95	0.25	52,52,52,52	0
55	TEL	BA	3362	58/58	0.95	0.22	110,110,110,110	0
52	MG	BA	3073	1/1	0.95	0.19	24,24,24,24	0
52	MG	DA	3011	1/1	0.96	0.19	43,43,43,43	0
52	MG	BA	3078	1/1	0.96	0.28	39,39,39,39	0
52	MG	BA	3021	1/1	0.96	0.13	30,30,30,30	0
52	MG	BA	3247	1/1	0.96	0.14	77,77,77,77	0
52	MG	DA	3015	1/1	0.96	0.20	40,40,40,40	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3208	1/1	0.96	0.29	36,36,36,36	0
52	MG	AA	1602	1/1	0.96	0.26	50,50,50,50	0
52	MG	DA	3018	1/1	0.96	0.25	34,34,34,34	0
52	MG	BA	3065	1/1	0.96	0.14	37,37,37,37	0
52	MG	BA	3124	1/1	0.96	0.11	12,12,12,12	0
52	MG	BA	3254	1/1	0.96	0.20	58,58,58,58	0
52	MG	BA	3212	1/1	0.96	0.06	29,29,29,29	0
52	MG	BA	3213	1/1	0.96	0.07	34,34,34,34	0
52	MG	BA	3085	1/1	0.96	0.10	0,0,0,0	0
52	MG	BA	3155	1/1	0.96	0.19	42,42,42,42	0
52	MG	BA	3354	1/1	0.96	0.18	71,71,71,71	0
52	MG	BA	3218	1/1	0.96	0.35	38,38,38,38	0
52	MG	DA	3029	1/1	0.96	0.15	36,36,36,36	0
52	MG	BA	3260	1/1	0.96	0.14	46,46,46,46	0
52	MG	BA	3006	1/1	0.96	0.24	27,27,27,27	0
52	MG	BA	3008	1/1	0.96	0.20	36,36,36,36	0
52	MG	BA	3003	1/1	0.96	0.11	34,34,34,34	0
52	MG	DA	3099	1/1	0.96	0.15	56,56,56,56	0
52	MG	BA	3265	1/1	0.96	0.20	51,51,51,51	0
52	MG	BA	3267	1/1	0.96	0.07	40,40,40,40	0
52	MG	BA	3223	1/1	0.96	0.32	45,45,45,45	0
52	MG	BB	204	1/1	0.96	0.28	47,47,47,47	0
52	MG	DA	3105	1/1	0.96	0.16	74,74,74,74	0
52	MG	DA	3298	1/1	0.96	0.17	46,46,46,46	0
52	MG	DA	3039	1/1	0.96	0.47	69,69,69,69	0
52	MG	BA	3129	1/1	0.96	0.06	55,55,55,55	0
52	MG	BA	3015	1/1	0.96	0.08	46,46,46,46	0
52	MG	BB	207	1/1	0.96	0.17	80,80,80,80	0
52	MG	BA	3273	1/1	0.96	0.19	44,44,44,44	0
52	MG	BA	3017	1/1	0.96	0.32	46,46,46,46	0
52	MG	BA	3275	1/1	0.96	0.11	47,47,47,47	0
52	MG	BA	3133	1/1	0.96	0.14	38,38,38,38	0
52	MG	BP	202	1/1	0.96	0.39	66,66,66,66	0
52	MG	BA	3323	1/1	0.96	0.11	51,51,51,51	0
52	MG	DA	3245	1/1	0.96	0.14	44,44,44,44	0
52	MG	DA	3054	1/1	0.96	0.29	47,47,47,47	0
52	MG	BA	3091	1/1	0.96	0.15	44,44,44,44	0
52	MG	DA	3248	1/1	0.96	0.12	72,72,72,72	0
52	MG	BA	3042	1/1	0.96	0.15	31,31,31,31	0
52	MG	BA	3139	1/1	0.96	0.19	60,60,60,60	0
52	MG	BA	3169	1/1	0.96	0.40	49,49,49,49	0
52	MG	BA	3018	1/1	0.96	0.12	25,25,25,25	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3075	1/1	0.96	0.22	56,56,56,56	0
52	MG	CA	1650	1/1	0.96	0.21	66,66,66,66	0
52	MG	DA	3124	1/1	0.96	0.14	63,63,63,63	0
52	MG	DA	3125	1/1	0.96	0.06	54,54,54,54	0
52	MG	BA	3172	1/1	0.96	0.12	50,50,50,50	0
52	MG	DD	301	1/1	0.96	0.21	56,56,56,56	0
52	MG	BA	3143	1/1	0.96	0.19	34,34,34,34	0
52	MG	BA	3044	1/1	0.96	0.20	19,19,19,19	0
52	MG	DA	3001	1/1	0.96	0.27	66,66,66,66	0
52	MG	DA	3003	1/1	0.96	0.25	61,61,61,61	0
52	MG	BA	3240	1/1	0.96	0.25	39,39,39,39	0
52	MG	DA	3005	1/1	0.96	0.05	69,69,69,69	0
52	MG	DA	3133	1/1	0.96	0.17	31,31,31,31	0
52	MG	BA	3097	1/1	0.96	0.28	53,53,53,53	0
52	MG	BA	3204	1/1	0.96	0.29	49,49,49,49	0
52	MG	B5	101	1/1	0.96	0.20	54,54,54,54	0
52	MG	DA	3010	1/1	0.96	0.31	45,45,45,45	0
52	MG	BA	3245	1/1	0.97	0.23	48,48,48,48	0
52	MG	DA	3084	1/1	0.97	0.12	27,27,27,27	0
52	MG	BA	3215	1/1	0.97	0.21	37,37,37,37	0
52	MG	BA	3320	1/1	0.97	0.05	48,48,48,48	0
52	MG	BA	3107	1/1	0.97	0.05	20,20,20,20	0
52	MG	BA	3322	1/1	0.97	0.10	44,44,44,44	0
52	MG	BA	3217	1/1	0.97	0.22	34,34,34,34	0
52	MG	BA	3249	1/1	0.97	0.08	56,56,56,56	0
52	MG	BA	3068	1/1	0.97	0.17	47,47,47,47	0
52	MG	DA	3035	1/1	0.97	0.14	41,41,41,41	0
52	MG	BA	3193	1/1	0.97	0.23	51,51,51,51	0
52	MG	BA	3080	1/1	0.97	0.35	23,23,23,23	0
52	MG	BA	3328	1/1	0.97	0.17	41,41,41,41	0
52	MG	BA	3253	1/1	0.97	0.04	42,42,42,42	0
52	MG	BQ	201	1/1	0.97	0.06	32,32,32,32	0
52	MG	DA	3041	1/1	0.97	0.20	55,55,55,55	0
52	MG	BQ	202	1/1	0.97	0.16	49,49,49,49	0
52	MG	DA	3043	1/1	0.97	0.14	43,43,43,43	0
52	MG	BU	201	1/1	0.97	0.10	29,29,29,29	0
52	MG	DA	3045	1/1	0.97	0.35	51,51,51,51	0
52	MG	DA	3164	1/1	0.97	0.20	50,50,50,50	0
52	MG	BA	3221	1/1	0.97	0.25	47,47,47,47	0
52	MG	DA	3047	1/1	0.97	0.08	28,28,28,28	0
52	MG	BA	3069	1/1	0.97	0.18	46,46,46,46	0
52	MG	BA	3113	1/1	0.97	0.19	28,28,28,28	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3197	1/1	0.97	0.18	46,46,46,46	0
52	MG	DA	3051	1/1	0.97	0.12	53,53,53,53	0
52	MG	BA	3294	1/1	0.97	0.13	40,40,40,40	0
52	MG	DA	3172	1/1	0.97	0.24	59,59,59,59	0
52	MG	BA	3082	1/1	0.97	0.20	37,37,37,37	0
52	MG	BA	3058	1/1	0.97	0.14	47,47,47,47	0
52	MG	BA	3297	1/1	0.97	0.35	68,68,68,68	0
52	MG	BA	3229	1/1	0.97	0.05	30,30,30,30	0
52	MG	BA	3261	1/1	0.97	0.10	34,34,34,34	0
52	MG	BA	3131	1/1	0.97	0.09	17,17,17,17	0
52	MG	DA	3059	1/1	0.97	0.14	55,55,55,55	0
52	MG	BA	3030	1/1	0.97	0.08	26,26,26,26	0
52	MG	BA	3342	1/1	0.97	0.16	39,39,39,39	0
52	MG	BA	3051	1/1	0.97	0.14	22,22,22,22	0
52	MG	BA	3026	1/1	0.97	0.13	58,58,58,58	0
52	MG	DA	3064	1/1	0.97	0.20	46,46,46,46	0
52	MG	DA	3009	1/1	0.97	0.16	52,52,52,52	0
52	MG	BA	3345	1/1	0.97	0.13	70,70,70,70	0
52	MG	BA	3266	1/1	0.97	0.31	63,63,63,63	0
52	MG	BA	3158	1/1	0.97	0.12	32,32,32,32	0
52	MG	DA	3189	1/1	0.97	0.09	45,45,45,45	0
52	MG	BA	3016	1/1	0.97	0.13	30,30,30,30	0
52	MG	BA	3136	1/1	0.97	0.30	51,51,51,51	0
52	MG	BA	3351	1/1	0.97	0.12	53,53,53,53	0
52	MG	BA	3183	1/1	0.97	0.18	55,55,55,55	0
52	MG	BA	3137	1/1	0.97	0.14	16,16,16,16	0
52	MG	DA	3195	1/1	0.97	0.16	62,62,62,62	0
52	MG	DE	301	1/1	0.97	0.07	34,34,34,34	0
52	MG	BA	3138	1/1	0.97	0.42	42,42,42,42	0
52	MG	DP	201	1/1	0.97	0.05	42,42,42,42	0
52	MG	AA	1601	1/1	0.97	0.14	68,68,68,68	0
52	MG	BA	3020	1/1	0.97	0.11	24,24,24,24	0
52	MG	BA	3141	1/1	0.97	0.20	19,19,19,19	0
52	MG	DA	3137	1/1	0.97	0.40	49,49,49,49	0
52	MG	BA	3358	1/1	0.97	0.04	34,34,34,34	0
53	ZN	CN	101	1/1	0.97	0.05	164,164,164,164	0
52	MG	DA	3023	1/1	0.97	0.12	39,39,39,39	0
52	MG	BA	3056	1/1	0.97	0.05	31,31,31,31	0
52	MG	BA	3035	1/1	0.97	0.15	23,23,23,23	0
52	MG	BA	3317	1/1	0.97	0.10	49,49,49,49	0
52	MG	DA	3100	1/1	0.98	0.07	59,59,59,59	0
52	MG	DA	3143	1/1	0.98	0.21	43,43,43,43	0

*Continued on next page...*

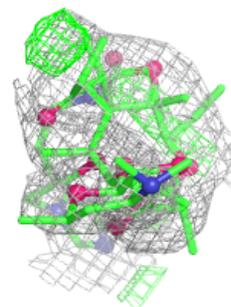
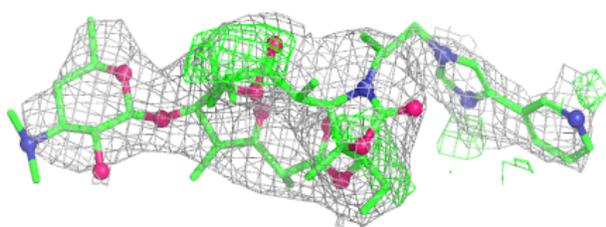
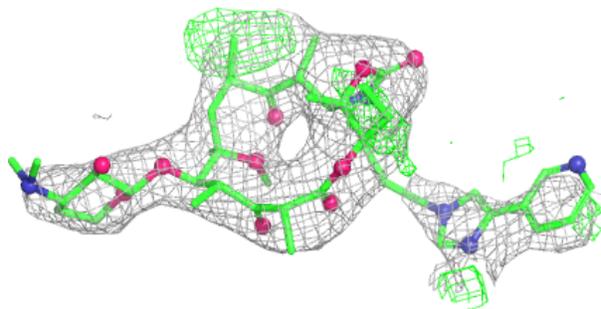
*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
52	MG	BA	3062	1/1	0.98	0.07	38,38,38,38	0
52	MG	BA	3092	1/1	0.98	0.18	22,22,22,22	0
52	MG	BA	3167	1/1	0.98	0.10	27,27,27,27	0
52	MG	BA	3084	1/1	0.98	0.16	25,25,25,25	0
52	MG	BA	3349	1/1	0.98	0.22	51,51,51,51	0
52	MG	AA	1631	1/1	0.98	0.05	63,63,63,63	0
52	MG	BA	3157	1/1	0.98	0.04	24,24,24,24	0
52	MG	BA	3024	1/1	0.98	0.05	37,37,37,37	0
52	MG	DA	3196	1/1	0.98	0.06	41,41,41,41	0
52	MG	B1	101	1/1	0.98	0.09	41,41,41,41	0
52	MG	BA	3270	1/1	0.98	0.06	24,24,24,24	0
52	MG	BA	3225	1/1	0.98	0.18	23,23,23,23	0
52	MG	DA	3200	1/1	0.98	0.17	47,47,47,47	0
52	MG	DQ	201	1/1	0.98	0.12	63,63,63,63	0
52	MG	BA	3002	1/1	0.98	0.32	31,31,31,31	0
52	MG	BA	3227	1/1	0.98	0.13	21,21,21,21	0
52	MG	BA	3148	1/1	0.98	0.14	28,28,28,28	0
52	MG	BR	201	1/1	0.98	0.13	27,27,27,27	0
53	ZN	AD	301	1/1	0.98	0.18	110,110,110,110	0
52	MG	BA	3048	1/1	0.98	0.15	20,20,20,20	0
52	MG	DA	3096	1/1	0.98	0.20	42,42,42,42	0
52	MG	DA	3207	1/1	0.98	0.06	53,53,53,53	0
52	MG	BA	3022	1/1	0.98	0.12	45,45,45,45	0
52	MG	DA	3002	1/1	0.98	0.32	41,41,41,41	0
52	MG	BA	3110	1/1	0.98	0.20	23,23,23,23	0
52	MG	DA	3267	1/1	0.99	0.09	57,57,57,57	0
52	MG	BA	3149	1/1	0.99	0.05	24,24,24,24	0
52	MG	BA	3007	1/1	0.99	0.29	57,57,57,57	0
53	ZN	CD	301	1/1	0.99	0.12	105,105,105,105	0
52	MG	BA	3046	1/1	0.99	0.15	38,38,38,38	0
52	MG	BA	3316	1/1	0.99	0.04	43,43,43,43	0
52	MG	BA	3272	1/1	0.99	0.26	38,38,38,38	0
52	MG	BA	3293	1/1	0.99	0.03	51,51,51,51	0
52	MG	BA	3109	1/1	0.99	0.05	36,36,36,36	0

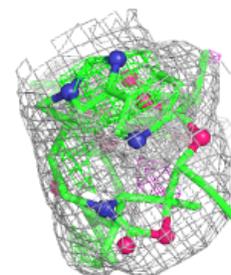
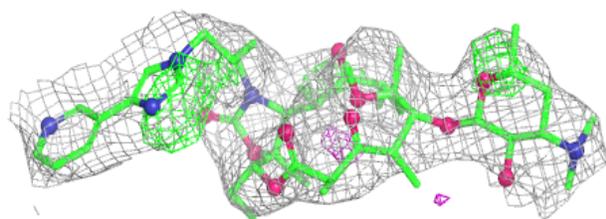
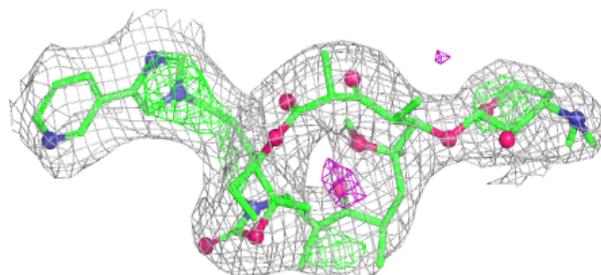
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

**Electron density around TEL DA 3320:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around TEL BA 3362:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



## 6.5 Other polymers [i](#)

There are no such residues in this entry.