



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 08:58 am GMT

PDB ID : 4V9D
Title : Structures of the bacterial ribosome in classical and hybrid states of tRNA binding
Authors : Dunkle, J.A.; Wang, L.; Feldman, M.B.; Pulk, A.; Chen, V.B.; Kapral, G.J.; Noeske, J.; Richardson, J.S.; Blanchard, S.C.; Cate, J.H.D.
Deposited on : 2012-07-31
Resolution : 3.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

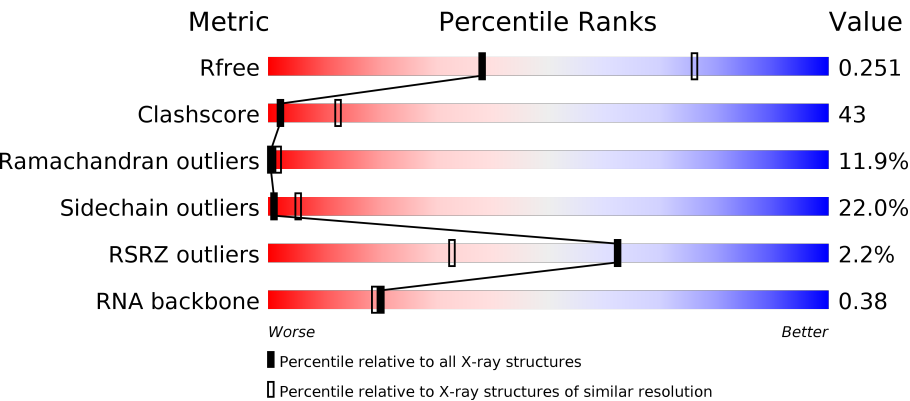
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	recalc28972

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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.



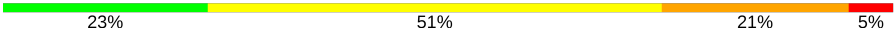

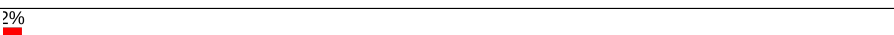
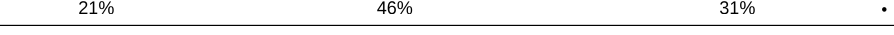
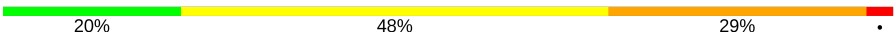

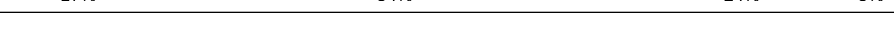



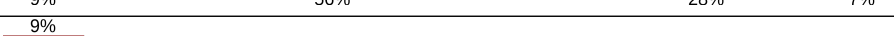
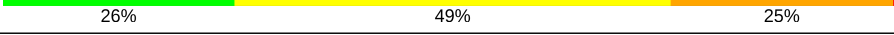

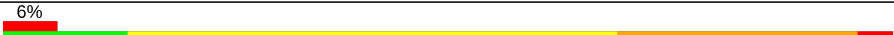


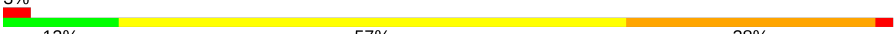

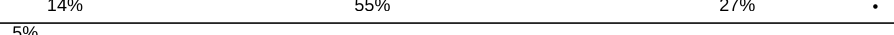


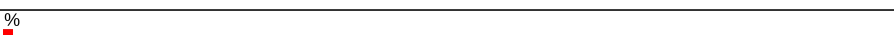
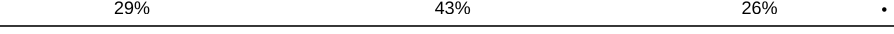
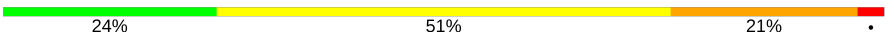

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	100719	1692 (3.00-3.00)
Clashscore	112137	2037 (3.00-3.00)
Ramachandran outliers	110173	1973 (3.00-3.00)
Sidechain outliers	110143	1976 (3.00-3.00)
RSRZ outliers	101464	1716 (3.00-3.00)
RNA backbone	2435	1007 (3.34-2.66)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	1539	<div><div></div><div>14%55%27%.</div></div>
1	BA	1539	<div><div>%</div><div>13%56%28%.</div></div>
2	AB	218	<div><div>6%10%45%36%9%</div></div>
2	BB	218	<div><div>6%15%51%26%8%</div></div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	AC	206	
3	BC	206	
4	AD	205	
4	BD	205	
5	AE	150	
5	BE	150	
6	AF	100	
6	BF	100	
7	AG	151	
7	BG	151	
8	AH	129	
8	BH	129	
9	AI	127	
9	BI	127	
10	AJ	98	
10	BJ	98	
11	AK	117	
11	BK	117	
12	AL	123	
12	BL	123	
13	AM	114	
13	BM	114	
14	AN	100	
14	BN	100	
15	AO	88	



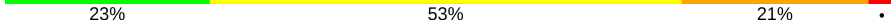

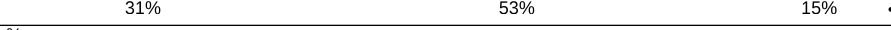
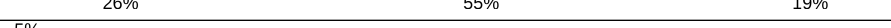
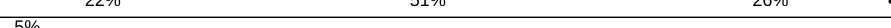
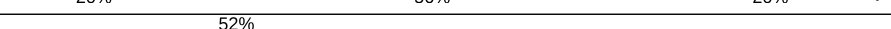
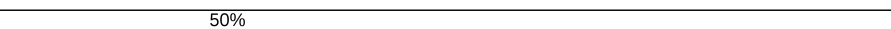
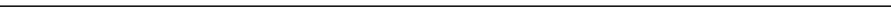





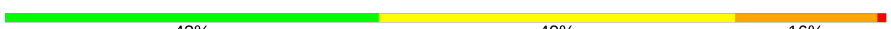


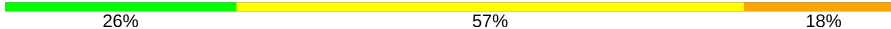

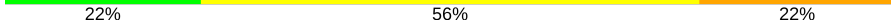




Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
15	BO	88	
16	AP	82	
16	BP	82	
17	AQ	80	
17	BQ	80	
18	AR	55	
18	BR	55	
19	AS	79	
19	BS	79	
20	AT	85	
20	BT	85	
21	AU	51	
21	BU	51	
22	AV	76	
22	BV	76	
23	AX	16	
23	BX	16	
24	AY	183	
25	CA	2903	
25	DA	2903	
26	CB	119	
27	CC	271	
27	DC	271	
28	CD	209	
28	DD	209	



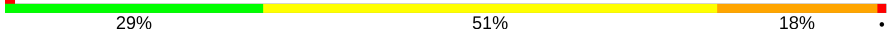

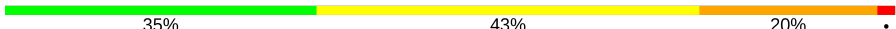
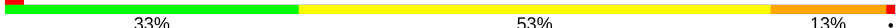
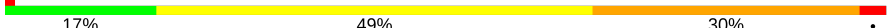


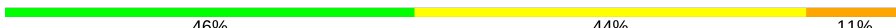
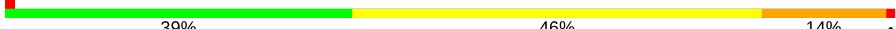



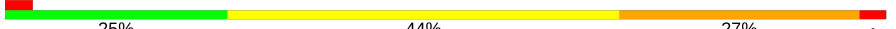




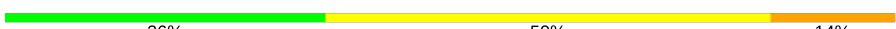
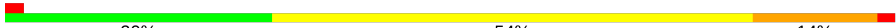

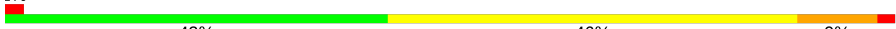


Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	CE	201	
29	DE	201	
30	CF	177	
30	DF	177	
31	CG	176	
31	DG	176	
32	CH	149	
32	DH	149	
33	CI	141	
33	DI	141	
34	CJ	142	
34	DJ	142	
35	CK	122	
35	DK	122	
36	CL	143	
36	DL	143	
37	CM	136	
37	DM	136	
38	CN	120	
38	DN	120	
39	CO	116	
39	DO	116	
40	CP	114	
40	DP	114	
41	CQ	117	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	DQ	117	
42	CR	103	
42	DR	103	
43	CS	110	
43	DS	110	
44	CT	93	
44	DT	93	
45	CU	102	
45	DU	102	
46	CV	94	
46	DV	94	
47	CW	76	
48	CX	77	
48	DX	77	
49	CY	63	
49	DY	63	
50	CZ	58	
50	DZ	58	
51	C0	56	
51	D0	56	
52	C1	50	
52	D1	50	
53	C2	46	
53	D2	46	
54	C3	64	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
54	D3	64	
55	C4	38	
55	D4	38	
56	DB	118	
57	DW	75	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	AA	1604	-	-	-	X
58	MG	AA	1622	-	-	-	X
58	MG	CA	3066	-	-	-	X
58	MG	CA	3121	-	-	-	X
58	MG	CA	3132	-	-	-	X
58	MG	CA	3147	-	-	-	X
58	MG	CA	3153	-	-	-	X
58	MG	CA	3155	-	-	-	X
58	MG	CA	3159	-	-	-	X
58	MG	CA	3163	-	-	-	X
58	MG	CA	3165	-	-	-	X
58	MG	CA	3175	-	-	-	X
58	MG	CA	3186	-	-	-	X
58	MG	CA	3188	-	-	-	X
58	MG	DA	3108	-	-	-	X
58	MG	DA	3116	-	-	-	X
58	MG	DA	3131	-	-	-	X
58	MG	DA	3139	-	-	-	X
58	MG	DA	3142	-	-	-	X
58	MG	DA	3152	-	-	-	X
58	MG	DA	3154	-	-	-	X
58	MG	DA	3157	-	-	-	X

2 Entry composition

There are 60 unique types of molecules in this entry. The entry contains 292354 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1538	Total	C	N	O	P	0	0	0
			32995	14716	6050	10691	1538			
1	BA	1539	Total	C	N	O	P	0	0	0
			33015	14725	6052	10699	1539			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	218	Total	C	N	O	S	0	0	0
			1705	1081	305	312	7			
2	BB	218	Total	C	N	O	S	0	0	0
			1705	1081	305	312	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	206	Total	C	N	O	S	0	0	0
			1625	1028	305	289	3			
3	BC	206	Total	C	N	O	S	0	0	0
			1625	1028	305	289	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			
4	BD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	150	Total	C	N	O	S	0	0	0
			1106	687	211	202	6			
5	BE	150	Total	C	N	O	S	0	0	0
			1106	687	211	202	6			

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	100	Total	C	N	O	S	0	0	0
			818	515	148	149	6			
6	BF	100	Total	C	N	O	S	0	0	0
			818	515	148	149	6			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	151	Total	C	N	O	S	0	0	0
			1182	735	227	216	4			
7	BG	151	Total	C	N	O	S	0	0	0
			1182	735	227	216	4			

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			
8	BH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			
9	BI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	98	Total	C	N	O	S	0	0	0
			787	493	150	143	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	BJ	98	Total	C	N	O	S	0	0	0
			787	493	150	143	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			
11	BK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			
12	BL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	114	Total	C	N	O	S	0	0	0
			884	546	178	157	3			
13	BM	114	Total	C	N	O	S	0	0	0
			884	546	178	157	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			
14	BN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			

- 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
			714	439	144	130	1			
15	BO	88	Total	C	N	O	S	0	0	0
			714	439	144	130	1			

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			
16	BP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	80	Total	C	N	O	S	0	0	0
			649	411	121	114	3			
17	BQ	80	Total	C	N	O	S	0	0	0
			649	411	121	114	3			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	55	Total	C	N	O	0	0	0
			456	288	86	82			
18	BR	55	Total	C	N	O	0	0	0
			456	288	86	82			

- 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	0
			638	408	120	108	2			
19	BS	79	Total	C	N	O	S	0	0	0
			638	408	120	108	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			
20	BT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			

- Molecule 21 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AU	51	Total	C	N	O	S	0	0	0
			426	265	86	74	1			
21	BU	51	Total	C	N	O	S	0	0	0
			426	265	86	74	1			

- Molecule 22 is a RNA chain called phenylalanine specific transfer RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
22	BV	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			

- Molecule 23 is a RNA chain called messenger RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	15	Total	C	N	O	P	0	0	0
			324	145	61	103	15			
23	BX	16	Total	C	N	O	P	0	0	0
			346	155	66	109	16			

- Molecule 24 is a protein called ribosome recycling factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	183	Total	C	N	O	S	0	0	0
			1419	871	260	283	5			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AY	2	GLY	-	EXPRESSION TAG	UNP P0A805

- Molecule 25 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	CA	2897	Total	C	N	O	P	0	0	0
			62195	27745	11446	20107	2897			
25	DA	2896	Total	C	N	O	P	0	0	0
			62173	27735	11441	20101	2896			

- Molecule 26 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	CB	119	Total	C	N	O	P	0	0	0
			2548	1135	466	829	118			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	CC	271	Total	C	N	O	S	0	0	0
			2083	1288	423	365	7			
27	DC	271	Total	C	N	O	S	0	0	0
			2083	1288	423	365	7			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	CD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			
28	DD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	CE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			
29	DE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	CF	177	Total	C	N	O	S	0	0	0
			1411	899	249	257	6			
30	DF	177	Total	C	N	O	S	0	0	0
			1411	899	249	257	6			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	CG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			
31	DG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	CH	149	Total	C	N	O	S	0	0	0
			1110	699	197	213	1			
32	DH	149	Total	C	N	O	S	0	0	0
			1110	699	197	213	1			

- Molecule 33 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	CI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			
33	DI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	CJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			
34	DJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	CK	122	Total	C	N	O	S	0	0	0
			939	587	180	166	6			
35	DK	122	Total	C	N	O	S	0	0	0
			939	587	180	166	6			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	CL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			
36	DL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	CM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			
37	DM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	CN	120	Total	C	N	O	S	0	0	0
			961	593	196	167	5			
38	DN	120	Total	C	N	O	S	0	0	0
			961	593	196	167	5			

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	CO	116	Total	C	N	O	0	0	0
			892	552	178	162			
39	DO	116	Total	C	N	O	0	0	0
			892	552	178	162			

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	CP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			
40	DP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	CQ	117	Total	C	N	O	0	0	0
			947	604	192	151			
41	DQ	117	Total	C	N	O	0	0	0
			947	604	192	151			

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	CR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	DR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	CS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			
43	DS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	CT	93	Total	C	N	O	S	0	0	0
			739	466	139	132	2			
44	DT	93	Total	C	N	O	S	0	0	0
			739	466	139	132	2			

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	CU	102	Total	C	N	O	S	0	0	0
			780	492	146	142				
45	DU	102	Total	C	N	O	S	0	0	0
			780	492	146	142				

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	CV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			
46	DV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	CW	76	Total	C	N	O	S	0	0	0
			575	356	117	101	1			

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	CX	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			
48	DX	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	CY	63	Total	C	N	O	S	0	0	0
			509	313	99	95	2			
49	DY	63	Total	C	N	O	S	0	0	0
			509	313	99	95	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	CZ	58	Total	C	N	O	S	0	0	0
			449	281	87	79	2			
50	DZ	58	Total	C	N	O	S	0	0	0
			449	281	87	79	2			

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	C0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			
51	D0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	C1	50	Total	C	N	O	0	0	0
			410	263	75	72			
52	D1	50	Total	C	N	O	0	0	0
			410	263	75	72			

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	C2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	D2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	C3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			
54	D3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			

- Molecule 55 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	C4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			
55	D4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			

- Molecule 56 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	DB	118	Total	C	N	O	P	0	0	0
			2529	1126	464	821	118			

- Molecule 57 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	DW	75	Total	C	N	O	S	0	0	0
			564	350	113	100	1			

- Molecule 58 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	BA	56	Total	Mg	0	0
			56	56		
58	CA	194	Total	Mg	0	0
			194	194		
58	DQ	1	Total	Mg	0	0
			1	1		
58	CB	4	Total	Mg	0	0
			4	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	DL	1	Total 1	Mg 1	0	0
58	AA	72	Total 72	Mg 72	0	0
58	CQ	1	Total 1	Mg 1	0	0
58	DA	166	Total 166	Mg 166	0	0
58	DB	3	Total 3	Mg 3	0	0

- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	D4	1	Total 1	Zn 1	0	0
59	C4	1	Total 1	Zn 1	0	0

- Molecule 60 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AA	197	Total 197	O 197	0	0
60	AN	4	Total 4	O 4	0	0
60	AT	1	Total 1	O 1	0	0
60	AU	1	Total 1	O 1	0	0
60	BA	190	Total 190	O 190	0	0
60	BL	1	Total 1	O 1	0	0
60	BN	5	Total 5	O 5	0	0
60	BT	1	Total 1	O 1	0	0
60	BU	1	Total 1	O 1	0	0
60	CA	625	Total 625	O 625	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	CB	13	Total 13	O 13	0	0
60	CC	8	Total 8	O 8	0	0
60	CD	2	Total 2	O 2	0	0
60	CE	2	Total 2	O 2	0	0
60	CF	1	Total 1	O 1	0	0
60	CJ	1	Total 1	O 1	0	0
60	CL	6	Total 6	O 6	0	0
60	CN	4	Total 4	O 4	0	0
60	CS	1	Total 1	O 1	0	0
60	CV	1	Total 1	O 1	0	0
60	C2	1	Total 1	O 1	0	0
60	C3	1	Total 1	O 1	0	0
60	C4	2	Total 2	O 2	0	0
60	DA	622	Total 622	O 622	0	0
60	DB	14	Total 14	O 14	0	0
60	DC	4	Total 4	O 4	0	0
60	DD	5	Total 5	O 5	0	0
60	DE	2	Total 2	O 2	0	0
60	DJ	1	Total 1	O 1	0	0
60	DL	4	Total 4	O 4	0	0
60	DN	1	Total 1	O 1	0	0

Continued on next page...

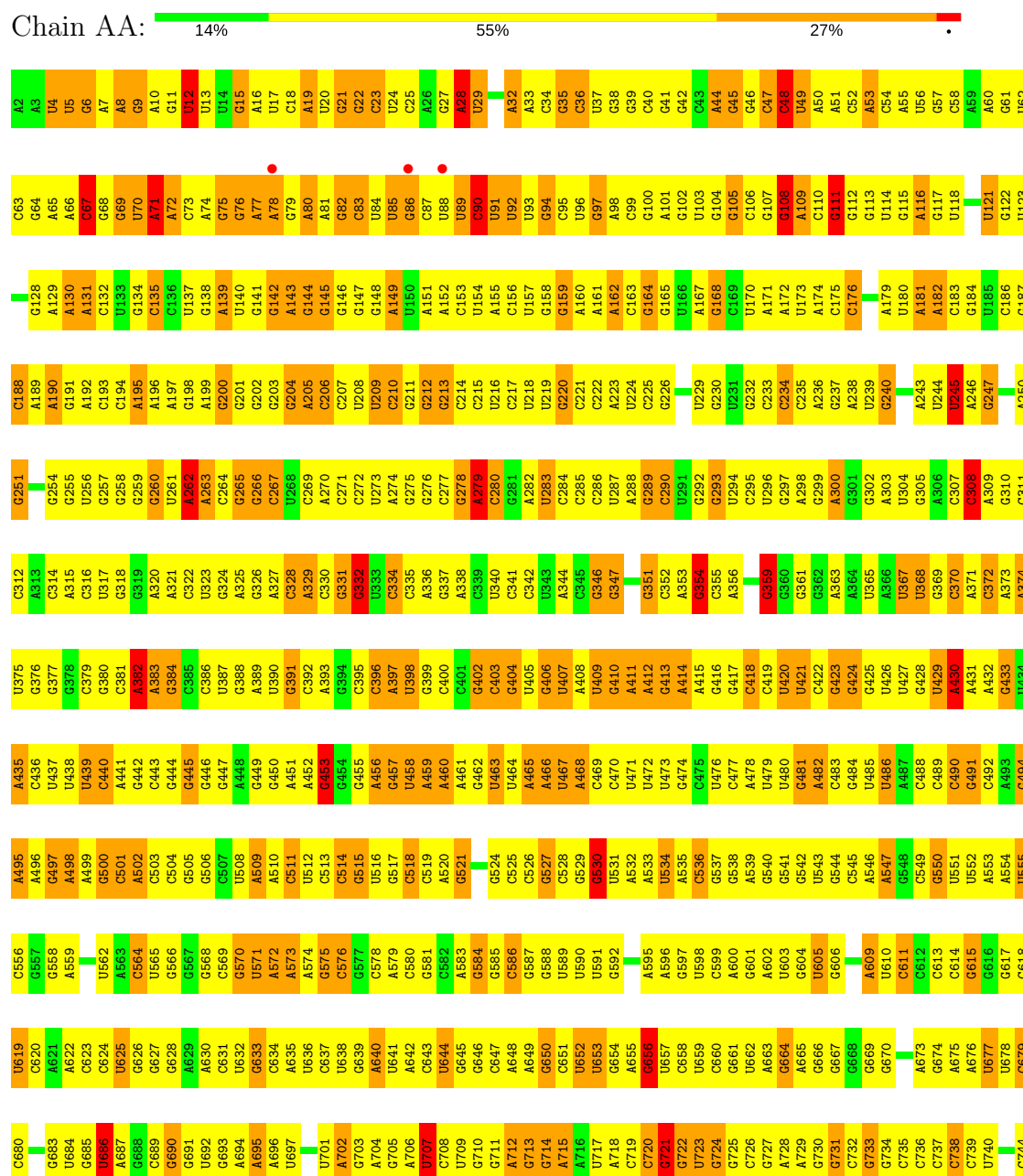
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	DR	1	Total 1	O 1	0	0
60	D2	1	Total 1	O 1	0	0
60	D3	2	Total 2	O 2	0	0
60	D4	1	Total 1	O 1	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: 16S rRNA



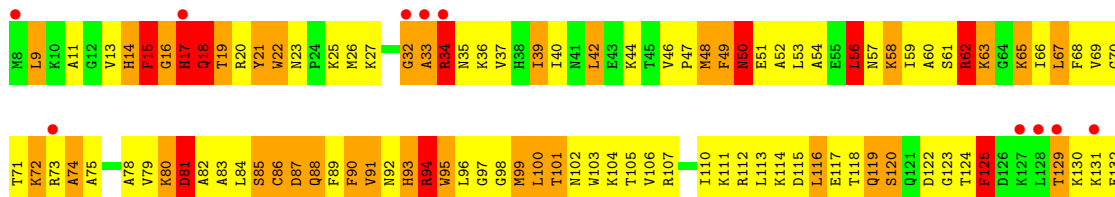
G1504	G1441	U1376	U1315	U1247	G1186	G1124	G1058	C995	C934	U870	A807	G745
G1505	G1442	A1377	C1316	U1248	G1187	U1125	C1059	A996	A935	U871	C808	A746
G1506	G1443	C1378	C1317		A1188	U1126	U1060	A997	C936	A872	C809	A747
A1507	U1444	G1379	A1318	G1253	U1189	G1127	U1061	C998	A937	G874	C811	G748
U1508	U1445	U1380	A1319	A1254	G1190		U1062	C999	A938	U875	C812	C750
C1509	A1446		C1320	C1255	A1191	A1130	G1063	A1000	C940	C876	U751	
C1510	A1447	G1385	U1321	A1256	C1192	G1131	G1064	C1001	C941	U877	U613	G752
	A1448	G1386	C1322	A1257	C1193	G1132	U1065	G1002	G942	C877	A814	G753
A1513	G1449	G1387	G1323	G1258	U1194	G1133	C1066	G1003	A942	G878	A815	A753
G1514	U1450	C1388	A1324	C1259	C1195	G1134	A1067	A1004	U943	C879	A816	C754
G1515	U1451	C1389	C1325	G1260	A1196	U1135	G1068	A1005	G944	C880	C817	G755
G1516	U1452	U1390	U1326		A1197	C1136	C1069	G1006	G945	G881	C818	C756
G1517	G1453	U1391	C1327	G1266	G1198	C1137	U1070	U1007	A946	C882	A819	U757
A1518	G1454	G1392	C1328	C1267	U1199	G1138	C1071	U1008	G947	C883	U820	C758
A1519	U1393	U1393	A1329	G1268	C1200	G1139	G1072	U1009	C948	U884	A821	C759
C1520	A1456	A1394	U1330	A1269	U1201	U1073	U1073	A949	A949	G885	U822	G760
C1521	G1457	C1395	G1331	G1270	A1202	C1141	G1074	G1012	U950			
U1522	G1458	A1396	A1332	A1271	C1203	G1142	U1075	G1013	U951			
G1523	C1397	C1403	A1333	G1272	C1204	G1143	U1076	A1016	C952	A889	A825	G763
C1524	A1398	G1394	G1334		U1205	G1144	U1077	U1017	U953	C890	C826	C764
G1525	C1399	G1335	A1400	A1275	U1206	A1145	U1078	G1018	G954	A892	U828	G765
G1526	U1463	C1400	C1336	G1276	C1207	A1146	G1079	A1019	U955	C893	G829	A766
U1527	G1464	G1401	G1337	C1277			A1080	G1020	U956	G894	G830	A768
U1528	A1465	A1402	G1338	G1278	C1210	C1149	A1081	A1021	U957	G895	A831	G769
G1529		C1403	A1339	G1279	U1211	A1150	A1082	A1022	A958	C896	G832	C770
G1530	G1469	C1404	A1340	A1280	U1212	A1151	U1083	U1023	A959	C897	G833	G771
A1531	U1470	G1405	U1341	C1281	A1213	A1152	G1084	G1024	U960		U834	U772
U1532	C1471	A1406	C1342	C1282	C1214	G1153	U1085	U1025	U961	A900	U835	G773
C1533	U1472	G1407	G1343	U1283	G1215	G1154	U1086	G1026	C962	A901	U836	G774
A1534	G1473	A1408	C1344	C1284	A1216	A1155		G1027	C963	G902		G775
G1535	G1474	G1409	U1345	A1285	C1217	G1156	A1092	C1028	U964	G903	C839	G776
C1536	U1475	A1410	A1346	U1286	C1218	A1157	A1093	U1029	A965	U904	C840	G777
U1537	G1476	C1411	G1347	A1287	A1219	C1158	U1094	U1030	C966	U905	C841	G778
C1538	U1477	C1412	U1348	U1288	G1220	U1159	C1095	C1031		A906	U842	C779
U1539	U1478	A1413	A1349	A1289	G1221	G1160	C1096	G1032	A969		U843	A780

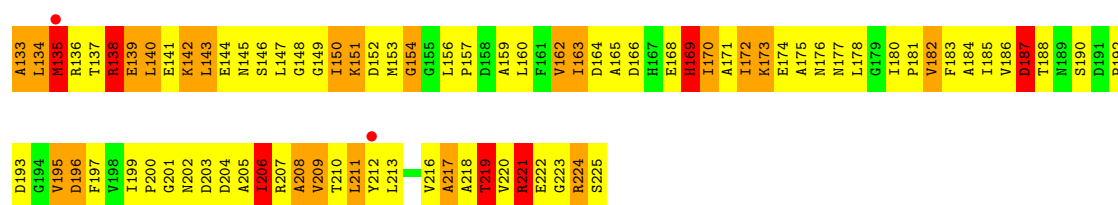
- Molecule 1: 16S rRNA

Chain BA: 13% 56% 28%

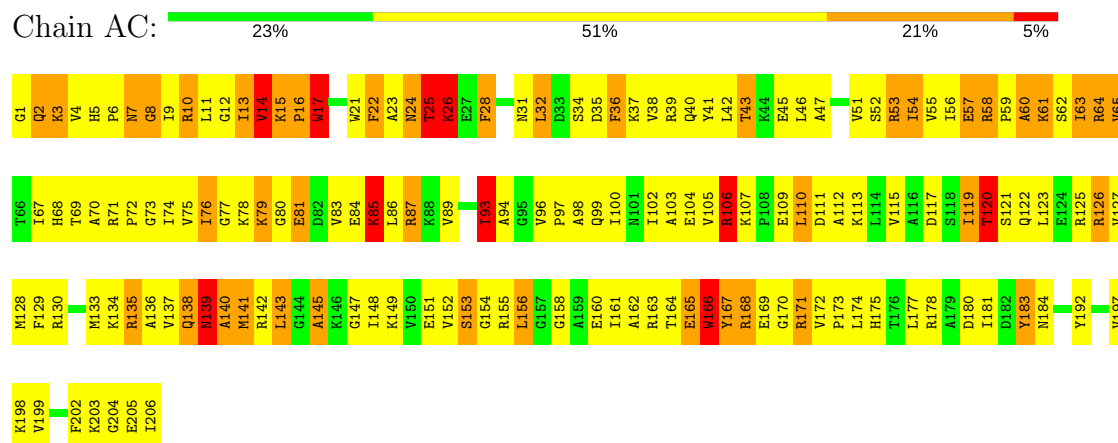
G67	G68	G69	G70	G71	G72	G73	G74	G75	G76	G77	G78	G79	G80	G81	G82	G83	G84	G85	G86	G87	G88	G89	G90	G91	G92	G93	G94	G95	G96	G97	G98	G99	G100	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G111	G112	G113	G114	G115	G116	G117	G118	G119	G120	G121	G122	G123	G124	G125	G126	G127	G128	G129	G130	G131	G132	G133	G134	G135	G136	G137	G138	G139	G140	G141	G142	G143	G144	G145	G146	G147	G148	G149	G150	G151	G152	G153	G154	G155	G156	G157	G158	G159	G160	G161	G162	G163	G164	G165	G166	G167	G168	G169	G170	G171	G172	G173	G174	G175	G176	G177	G178	G179	G180	G181	G182	G183	G184	G185	G186	G187	G188	G189	G190	G191	G192	G193	G194	G195	G196	G197	G198	G199	G200	G201	G202	G203	G204	G205	G206	G207	G208	G209	G210	G211	G212	G213	G214	G215	G216	G217	G218	G219	G220	G221	G222	G223	G224	G225	G226	G227	G228	G229	G230	G231	G232	G233	G234	G235	G236	G237	G238	G239	G240	G241	G242	G243	G244	G245	G246	G247	G248	G249	G250	G251	G252	G253	G254	G255	G256	G257	G258	G259	G260	G261	G262	G263	G264	G265	G266	G267	G268	G269	G270	G271	G272	G273	G274	G275	G276	G277	G278	G279	G280	G281	G282	G283	G284	G285	G286	G287	G288	G289	G290	G291	G292	G293	G294	G295	G296	G297	G298	G299	G300	G301	G302	G303	G304	G305	G306	G307	G308	G309	G310	G311	G312	G313	G314	G315	G316	G317	G318	G319	G320	G321	G322	G323	G324	G325	G326	G327	G328	G329	G330	G331	G332	G333	G334	G335	G336	G337	G338	G339	G340	G341	G342	G343	G344	G345	G346	G347	G348	G349	G350	G351	G352	G353	G354	G355	G356	G357	G358	G359	G360	G361	G362	G363	G364	G365	G366	G367	G368	G369	G370	G371	G372	G373	G374	G375	G376	G377	G378	G379	G380	G381	G382	G383	G384	G385	G386	G387	G388	G389	G390	G391	G392	G393	G394	G395	G396	G397	G398	G399	G400	G401	G402	G403	G404	G405	G406	G407	G408	G409	G410	G411	G412	G413	G414	G415	G416	G417	G418	G419	G420	G421	G422	G423	G424	G425	G426	G427	G428	G429	G430	G431	G432	G433	G434	G435	G436	G437	G438	G439	G440	G441	G442	G443	G444	G445	G446	G447	G448	G449	G450	G451	G452	G453	G454	G455	G456	G457	G458	G459	G460	G461	G462	G463	G464	G465	G466	G467	G468	G469	G470	G471	G472	G473	G474	G475	G476	G477	G478	G479	G480	G481	G482	G483	G484	G485	G486	G487	G488	G489	G490	G491	G492	G493	G494	G495	G496	G497	G498	G499	G500	G501	G502	G503	G504	G505	G506	G507	G508	G509	G510	G511	G512	G513	G514	G515	G516	G517	G518	G519	G520	G521	G522	G523	G524	G525	G526	G527	G528	G529	G530	G531	G532	G533	G534	G535	G536	G537	G538	G539	G540	G541	G542	G543	G544	G545	G546	G547	G548	G549	G550	G551	G552	G553	G554	G555	G556	G557	G558	G559	G560	G561	G562	G563	G564	G565	G566	G567	G568	G569	G570	G571	G572	G573	G574	G575	G576	G577	G578	G579	G580	G581	G582	G583	G584	G585	G586	G587	G588	G589	G590	G591	G592	G593	G594	G595	G596	G597	G598	G599	G600	G601	G602	G603	G604	G605	G606	G607	G608	G609	G610	G611	G612	G613	G614	G615	G616	G617	G618	G619	G620	G621	G622	G623	G624	G625	G626	G627	G628	G629	G630	G631	G632	G633	G634	G635	G636	G637	G638	G639	G640	G641	G642	G643	G644	G645	G646	G647	G648	G649	G650	G651	G652	G653	G654	G655	G656	G657	G658	G659	G660	G661	G662	G663	G664	G665	G666	G667	G668	G669	G670	G671	G672	G673	G674	G675	G676	G677	G678	G679	G680	G681	G682	G683	G684	G685	G686	G687	G688	G689	G690	G691	G692	G693	G694	G695	G696	G697	G698	G699	G700	G701	G702	G703	G704	G705	G706	G707	G708	G709	G710	G711	G712	G713	G714	G715	G716	G717	G718	G719	G720	G721	G722	G723	G724	G725	G726	G727	G728	G729	G730	G731	G732	G733	G734	G735	G736	G737	G738	G739	G740	G741	G742	G743	G744	G745	G746	G747	G748	G749	G750	G751	G752	G753	G754	G755	G756	G757	G758	G759	G760	G761	G762	G763	G764	G765	G766	G767	G768	G769	G770	G771	G772	G773	G774	G775	G776	G777	G778	G779	G780	G781	G782	G783	G784	G785	G786	G787	G788	G789	G790	G791	G792	G793	G794	G795	G796	G797	G798	G799	G800	G801	G802	G803	G804	G805	G806	G807	G808	G809	G810	G811	G812	G813	G814	G815	G816	G817	G818	G819	G820	G821	G822	G823	G824	G825	G826	G827	G828	G829	G830	G831	G832	G833	G834	G835	G836	G837	G838	G839	G840	G841	G842	G843	G844	G845	G846	G847	G848	G849	G850	G851	G852	G853	G854	G855	G856	G857	G858	G859	G860	G861	G862	G863	G864	G865	G866	G867	G868	G869	G870	G871	G872	G873	G874	G875	G876	G877	G878	G879	G880	G881	G882	G883	G884	G885	G886	G887	G888	G889	G890	G891	G892	G893	G894	G895	G896	G897	G898	G899	G900	G901	G902	G903	G904	G905	G906	G907	G908	G909	G910	G911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	G927	G928	G929	G930	G931	G932	G933	G934	G935	G936	G937	G938	G939	G940	G941	G942	G943	G944	G945	G946	G947	G948	G949	G950	G951	G952	G953	G954	G955	G956	G957	G958	G959	G960	G961	G962	G963	G964	G965	G966	G967	G968	G969	G970	G971	G972	G973	G974	G975	G976	G977	G978	G979	G980	G981	G982	G983	G984	G985	G986	G987	G988	G989	G990	G991	G992	G993	G994	G995	G996	G997	G998	G999	G1000	G1001	G1002	G1003	G1004	G1005	G1006	G1007	G1008	G1009	G1010	G1011	G1012	G1013	G1014	G1015	G1016	G1017	G1018	G1019	G1020	G1021	G1022	G1023	G1024	G1025	G1026	G1027	G1028	G1029	G1030	G1031	G1032	G1033	G1034	G1035	G1036	G1037	G1038	G1039	G1040	G1041	G1042	G1043	G1044	G1045	G1046	G1047	G1048	G1049	G1050	G1051	G1052	G1053	G1054	G1055	G1056	G1057	G1058	G1059	G1060	G1061	G1062	G1063	G1064	G1065	G1066	G1067	G1068	G1069	G1070	G1071	G1072	G1073	G1074	G1075	G1076	G1077	G1078	G1079	G1080	G1081	G1082	G1083	G1084	G1085	G1086	G1087	G1088	G1089	G1090	G1091	G1092	G1093	G1094	G1095	G1096	G1097	G1098	G1099	G1100	G1101	G1102	G1103	G1104	G1105	G1106	G1107	G1108	G1109	G1110	G1111	G1112	G1113	G1114	G1115	G1116	G1117	G1118	G1119	G1120	G1121	G1122	G1123	G1124	G1125	G1126	G1127	G1128	G1129	G1130	G1131	G1132	G1133	G1134	G1135	G1136	G1137	G1138	G1139	G1140	G1141	G1142	G1143	G1144	G1145	G1146	G1147	G1148	G1149	G1150	G1151	G1152	G1153	G1154	G1155	G1156	G1157	G1158	G1159	G1160	G1161	G1162	G1163	G1164	G1165	G1166	G1167	G1168	G1169	G1170	G1171	G1172	G1173	G1174	G1175	G1176	G1177	G1178	G1179	G1180	G1181	G1182	G1183	G1184	G1185	G1186	G1187	G1188	G1189	G1190	G1191	G1192	G1193	G1194	G1195	G1196	G1197	G1198	G1199	G1200	G1201	G1202	G1203	G1204	G1205	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	G1245	G1246	G1247	G1248	G1249	G1250	G1251	G1252	G1253	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264	G1265	G1266	G1267	G1268	G1269	G1270	G1271	G1272	G1273	G1274	G1275	G1276	G1277	G1278	G1279	G1280	G1281	G1282	G1283	G1284	G1285	G1286	G1287	G1288	G1289	G1290	G1291	G1292	G1293	G1294	G1295	G1296	G1297	G1298	G1299	G1300	G1301	G1302	G1303	G1304	G1305	G1306	G1307	G1308	G1309	G1310	G1311	G1312	G1313	G1314	G1315	G1316	G1317	G1318	G1319	G1320	G1321	G1322	G1323	G1324	G1325	G1326	G1327	G1328	G1329	G1330	G1331	G1332	G1333	G1334	G1335	G1336	G1337	G1338	G1339	G1340	G1341	G1342	G1343	G1344	G1345	G1346	G1347	G1348	G1349	G1350	G1351	G1352	G1353	G1354	G1355	G1356	G1357	G1358	G1359	G1360	G1361	G1362	G1363	G1364	G1365	G1366	G1367	G1368	G1369	G1370	G1371	G1372	G1373	G1374	G1375	G1376	G1377	G1378	G1379	G1380	G1381	G1382	G1383	G1384	G1385	G1386	G1387	G1388	G1389	G1390	G1391	G1392	G1393	G1394	G1395	G1396	G1397	G1398	G1399	G1400	G1401	G1402	G1403	G1404	G1405	G1406	G1407	G1408	G1409	G1410	G1411	G1412	G1413	G1414	G1415	G1416	G1417	G1418	G1419	G1420	G1421	G1422	G1423	G1424	G1425	G1426	G1427	G1428	G1429	G1430	G1431	G1432	G1433	G1434	G1435	G1436	G1437	G1438	G1439	G1440	G1441	G1442	G1443	G1444	G1445	G1446	G1447	G1448	G1449	G1450	G1451	G1452	G1453	G1454	G1455	G1456	G1457	G1458	G1459	G1460	G1461	G1462	G1463	G1464	G1465	G1466	G1467	G1468	G1469	G1470	G1471	G1472	G1473	G1474	G1475	G1476	G1477	G1478	G1479	G1480	G1481	G1482	G1483	G1484	G1485	G1486	G1487	G1488	G1489	G1490	G1491	G1492	G1493	G1494	G1495	G1496	G1497	G1498	G1499	G1500	G1501	G1502	G1503	G1504	G1505	G1506	G1507	G1508	G1509	G1510	G1511	G1512	G1513	G1514	G1515	G1516	G1517	G1518	G1519	G1520	G1521	G1522	G1523	G1524	G1525	G1526	G1527	G1528	G1529	G1530	G1531	G1532	G1533	G1534	G1535	G1536	G1537	G1538	G1539	G1540	G1541	G1542	G1543	G1544	G1545	G1546	G1547	G1548	G1549
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

U1065	C1066	A1005	G939	G877	A815	U751	C689	G828	G566	A502	C381	G319	G255	G191	A130
G1066	U1007	G1006	C940	A878	A816	G752	G690	A829	G567	C503	A382	A320	U256	A192	A131
A1067	G879	C817	G941	C879	G818	A753	G691	A830	C589	G504	A383	A321	G257	C193	C132
G1068	U1008	A754	G942	C880	G819	G754	G692	C831	C588	G505	A384	C322	G258	C194	U133
C1069	U943	G881	U943	G882	A820	G755	G693	U832	C570	G506	C385	C322	G259	A195	G134
U1070	C1071	C882	G944	C883	G821	G756	A694	G633	U571	C507	C386	A325	G260	A196	C135
C1071	U1011	C883	G944	C884	G822	U757	A695	C634	A572	U572	U387	G326	U261	A197	U136
U1072	A1012	U884	A949	U884	U822	C758	C699	A635	A573	A510	G388	A327	U261	A198	U137
C1073	G1013	G885	U950	G885	G823	A759	C699	U836	A574	C511	G389	A328	C264	A199	U138
A1074	A1014	G824	G951	G824	G824	G760	G700	U837	C575	C512	U390	A329	C265	G200	G141
U1075	G1015	A825	U952	A825	A825	U701	U701	U838	C576	C513	U391	C330	G266	G201	G142
U1076	A1016	C826	G953	G826	C826	A702	A702	G639	C577	U516	C392	G331	C267	G202	G143
G1077	U1017	U891	G954	U891	U827	G764	G703	A640	C578	U517	A393	C332	U268	G203	A143
U1078	G1018	A892	U955	A892	U828	G765	A704	U841	A579	G517	C394	U333	C269	G204	G144
G1079	A1019	C893	U956	C893	G829	A766	A705	A642	C580	C518	C395	U334	A270	A205	G145
A1080	G1020	G894	U957	G894	G830	A767	U706	C643	C581	C519	C396	C335	C271	C206	G146
A1081	U958	G895	A958	G895	A831	A768	U707	U844	C582	U458	C397	A336	C272	G147	G147
A1082	A1022	C896	A959	C896	G832	A769	C708	G645	A583	C522	U398	G337	C273	U208	G148
U1083	U1023	C897	U960	C897	G833	C770	U709	G646	C584	A523	G399	A338	A274	U209	A149
G1084	G1024	G898	U960	G898	U834	C771	G710	C647	C585	G524	C400	C339	G275	C210	U150
U1085	U1025	C899	G963	C899	U835	G775	G711	A648	C586	C525	C401	U340	G276	C211	A151
U1086	G1026	A900	A964	A900	G836	G776	A712	A649	C587	C526	G402	C342	C277	G212	A152
G1087	C1027	A901	U965	A901	U837	G777	G713	G650	C588	G527	C403	C343	C278	G213	C153
U1088	C1028	G902	G966	G902	U838	A777	G714	C651	U589	G530	G404	U343	A279	G214	U154
G1089	U1029	G903	G967	G903	C840	G778	A715	U852	U590	C531	G405	U344	C280	C215	A155
U1090	U1030	C941	A968	C941	C841	C779	A716	U853	U591	U831	G406	C345	G281	U216	C156
U1091	C1031	U905	A969	U905	G842	A780	U717	G654	C592	A532	U407	G346	A282	U219	U157
A1092	G1032	A906	C970	A906	U843	A781	A718	A655	U593	A533	A408	G347	U283	G220	G158
A1093	G1033	G971	G971	A907	G844	A782	C719	G656	U594	U834	U409	G348	C285	G221	G159
G1094	G1034	A908	C972	A908	A845	C783	C720	U857	A595	A535	G410	A349	C286	C221	A160
U1095	A1035	G973	G973	A909	G846	A784	G721	C658	A596	C536	A411	G350	C286	C222	A161
C1096	A1036	A974	A974	C910	G847	G785	G722	U859	C597	G537	A412	C351	C289	A223	A162
C1097	A975	U911	A975	U911	C848	G786	U723	C660	A600	G538	G413	C352	G289	G226	C163
G1098	C1038	G976	A976	C912	G849	A787	G724	G661	G601	A539	A414	A353	C290	G226	G164
U1099	G1039	A913	A977	A913	G852	U788	G725	U862	A602	G540	A415	G354	C291	G229	G165
C1100	U1040	A914	A978	A914	G852	A789	C726	A663	U603	G541	G416	C477	C292	U229	U166
A1101	G1041	G915	C979	A915	G853	A790	G727	G664	G604	G542	G417	A478	C293	G230	A167
A1102	G1043	U916	C980	U916	U854	G791	A728	A665	U605	U543	C418	U479	C294	U231	G168
C1103	A1044	G917	U981	G917	U855	A792	A729	A666	G606	G544	C419	U480	C295	G232	C169
G1104	C1045	A918	U982	A918	C856	A793	G730	U667	A607	C545	U421	G481	C296	G233	U170
A1105	A1046	C983	A983	A919	C857	C794	G731	A677	A608	A546	C422	C483	C297	C234	A171
G1106	G1047	U920	C984	U920	G858	C795	G732	U670	A609	A547	C423	A363	C298	C235	A172
C1107	G1047	G921	C985	U921	G859	G798	G733	G671	U610	G548	G424	A364	C299	A236	U173
G1108	G1048	A922	U986	G922	A860	G799	G734	U672	C611	C549	G425	U365	A300	G237	A174
C1109	U1049	G923	G987	A923	G861	G800	C735	A673	C612	G550	G426	U366	A303	G240	C175
A1110	G1050	C924	U988	C924	C862	A801	C736	G674	C613	U551	U426	U367	U304	G241	G177
C1111	C1051	G925	U989	G925	U863	U801	C737	A675	C614	U552	C428	U368	G305	G242	C178
C1112	U1052	C926	C990	C926	A864	A802	C738	U676	C615	A553	U429	G369	A306	A243	A179
C1113	G1053	G927	U991	G927	A865	G803	C739	A677	G616	A554	A430	C370	A307	U244	U180
C1114	C1054	G928	U992	G928	C866	U804	U740	U678	C617	U555	A431	C371	C308	G245	A181
U1115	A1055	G929	G993	G929	C867	C805	G741	C679	C618	C556	A432	A371	C309	U246	A182
U1116	U1056	C930	A994	C930	C868	C806	G742	C680	U619	G557	A433	C372	A309	A246	C182
C1117	G1057	C931	C995	C931	G869	A807	A743	A681	C620	G558	A434	A373	A310	G247	C183
U1118	G1058	C932	A996	C932	U870	C808	G744	G682	A621	A559	U434	A374	G311	G248	G184
C1119	C1059	G933	G994	G933	U871	G809	G745	A683	A622	A560	U435	U375	C312	U249	U185
C1120	U1060	C934	A1000	C934	A872	C810	G746	U684	C623	U561	C436	G376	A313	C250	C186
U1121	G1061	A935	C1001	A935	A873	C811	A747	G685	C624	U562	U437	G377	C316	G251	G187
U1122	U1062	G874	G1002	C936	A874	G812	G748	U686	U625	A563	A438	G378	U317	U252	C188
C1123	C1063	U975	G1003	A937	U875	U813	A749	A687	C626	A563	U439	C379	C317	G253	A189
G1124	G1064	C976	A1004	A938	C876	A814	C750	G688	G627	U565	C440	G380	G318	G254	A190

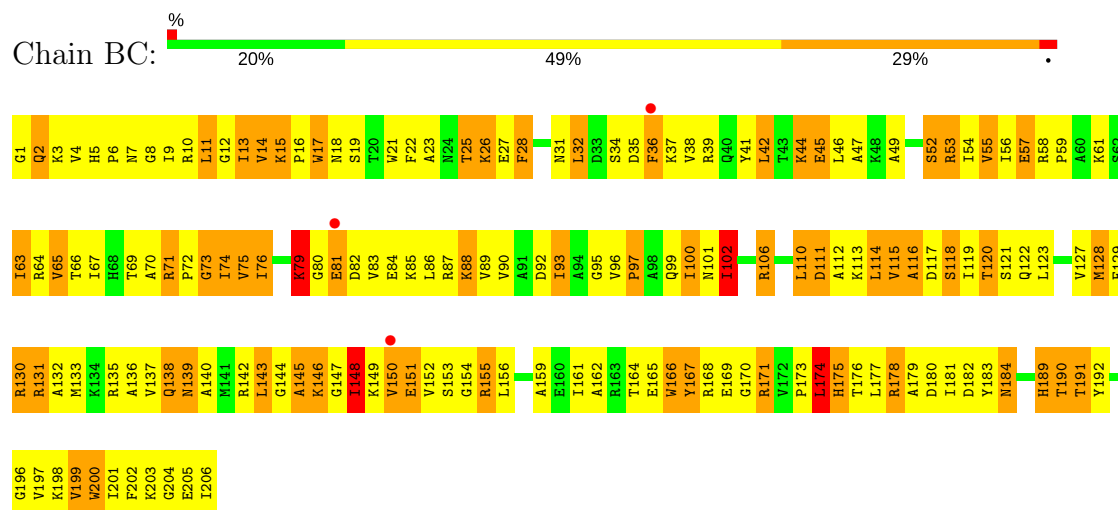




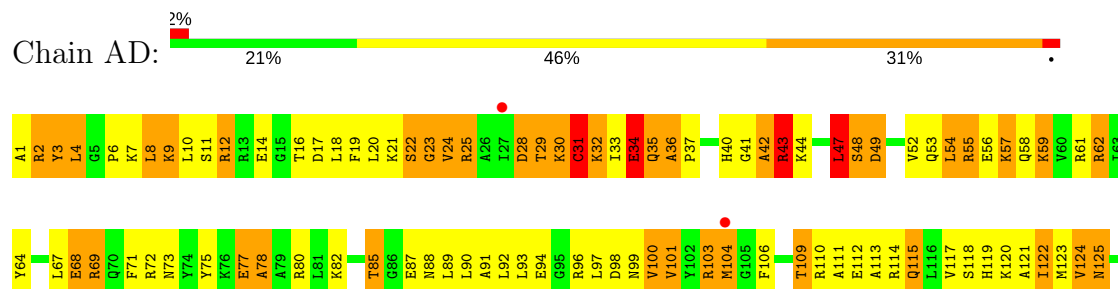
• Molecule 3: 30S ribosomal protein S3

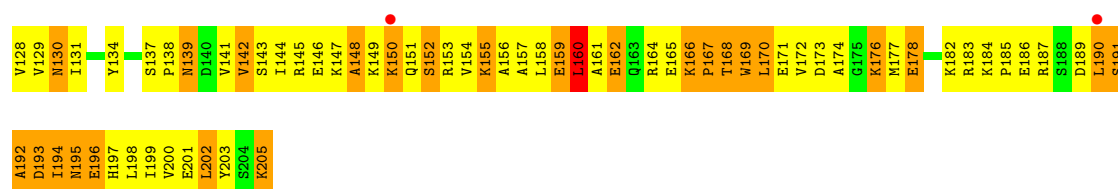


• Molecule 3: 30S ribosomal protein S3

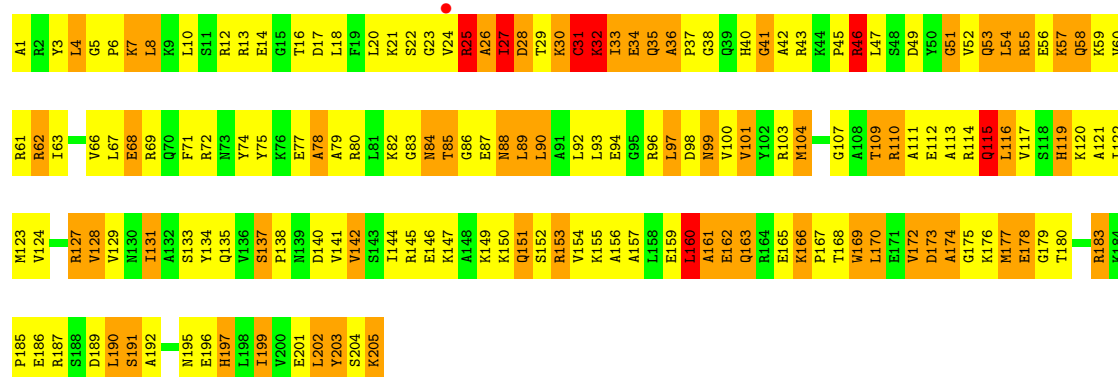


• Molecule 4: 30S ribosomal protein S4

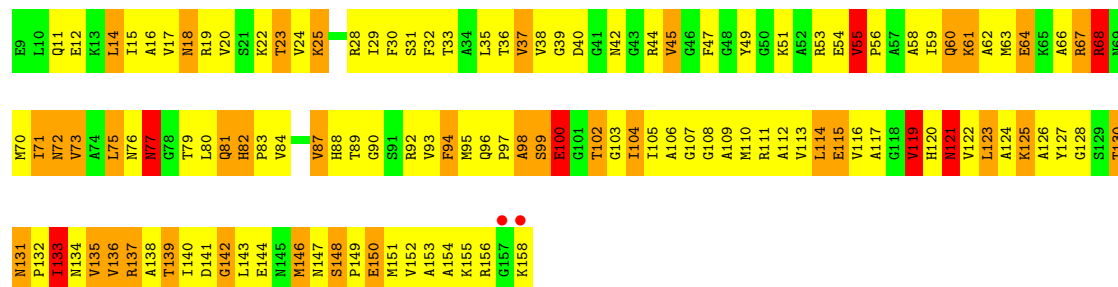
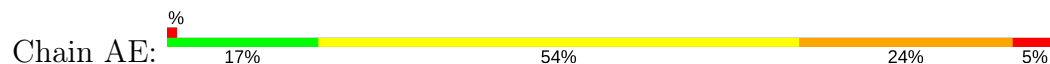




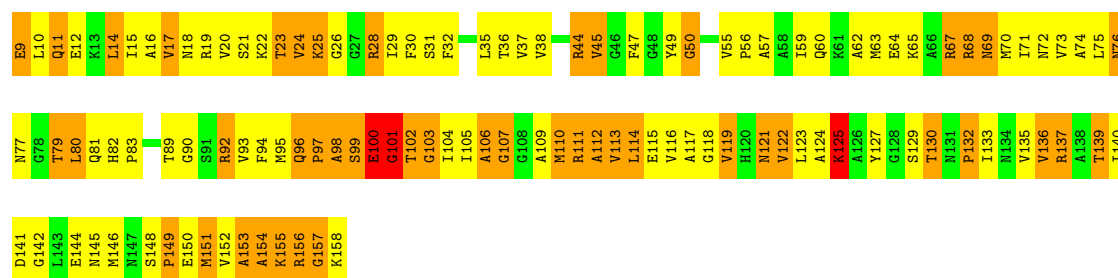
- Molecule 4: 30S ribosomal protein S4



- Molecule 5: 30S ribosomal protein S5

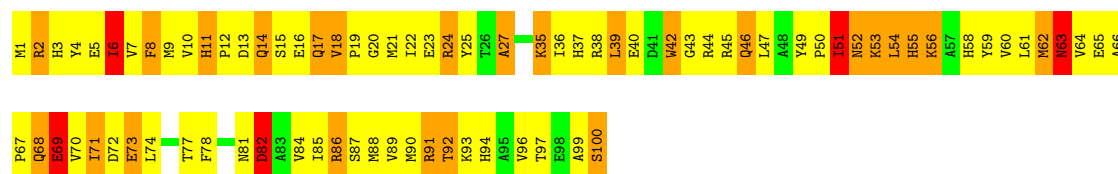


- Molecule 5: 30S ribosomal protein S5



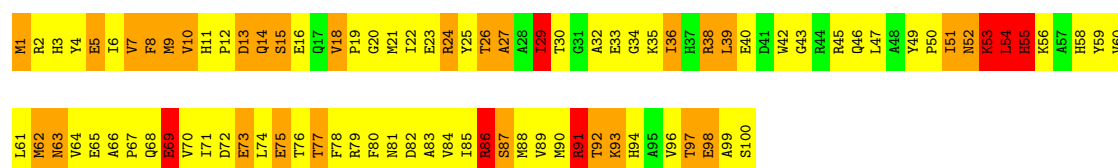
- Molecule 6: 30S ribosomal protein S6

Chain AF:



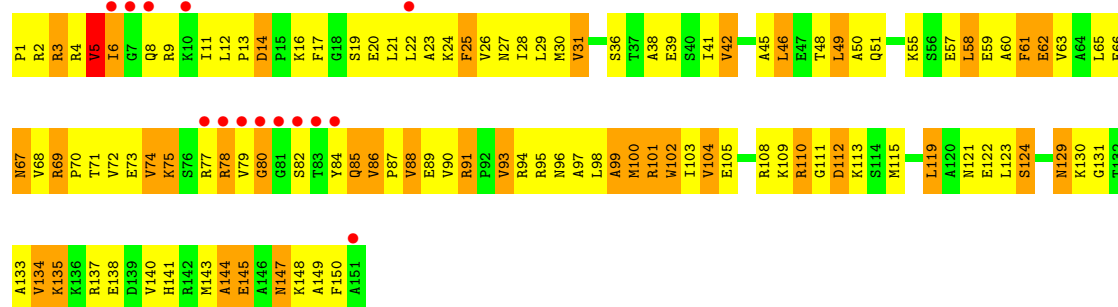
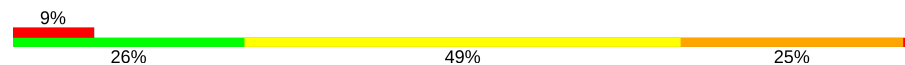
- Molecule 6: 30S ribosomal protein S6

Chain BF:



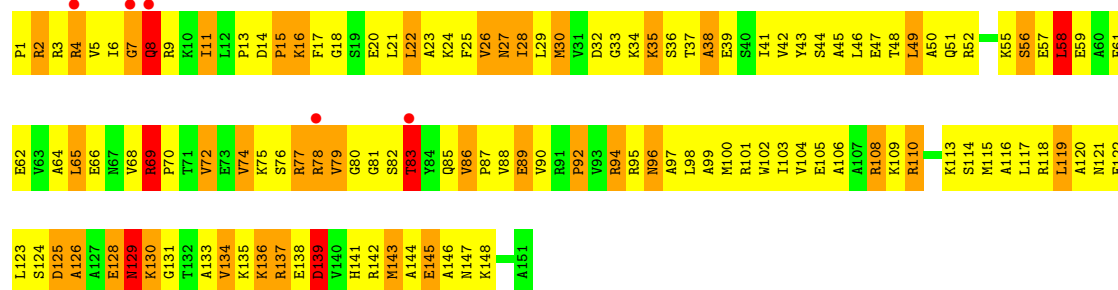
- Molecule 7: 30S ribosomal protein S7

Chain AG:



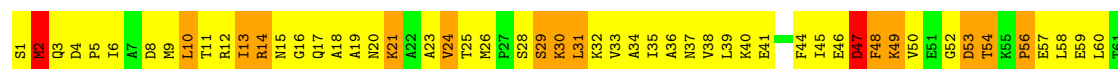
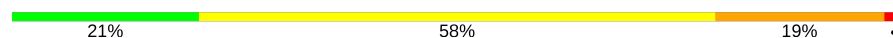
- Molecule 7: 30S ribosomal protein S7

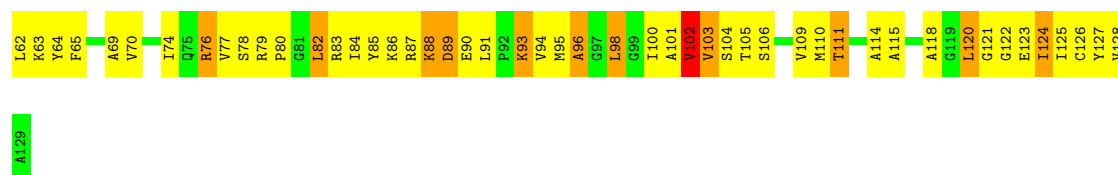
Chain BG:



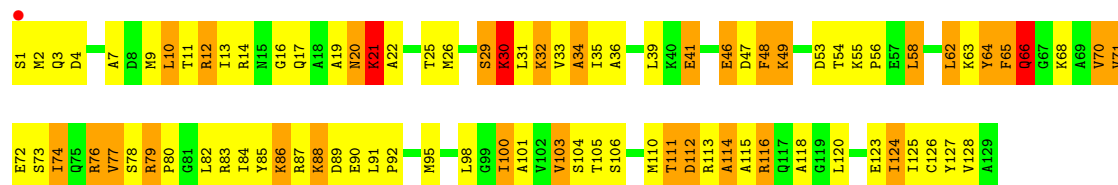
- Molecule 8: 30S ribosomal protein S8

Chain AH:

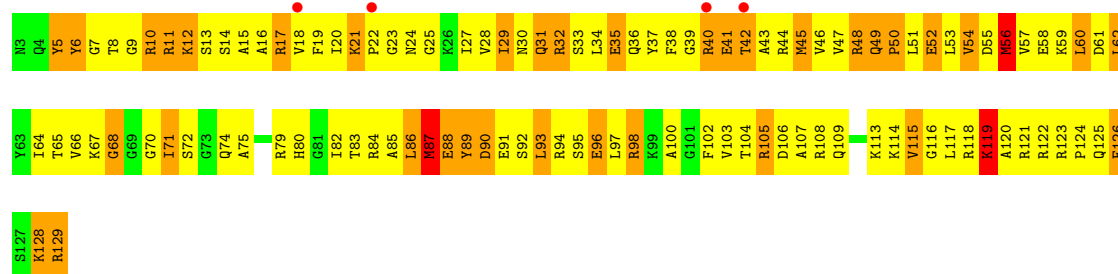
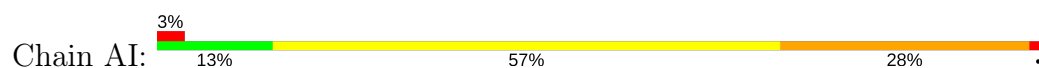




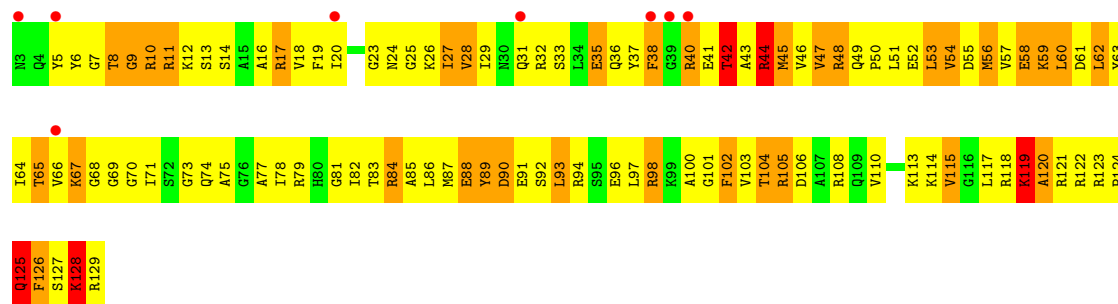
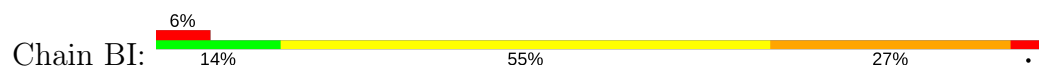
- Molecule 8: 30S ribosomal protein S8



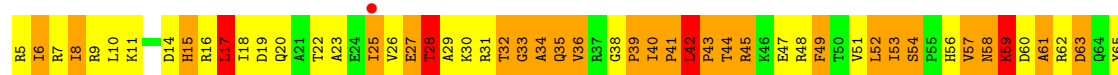
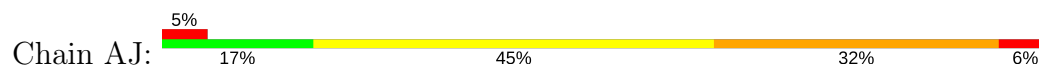
- Molecule 9: 30S ribosomal protein S9

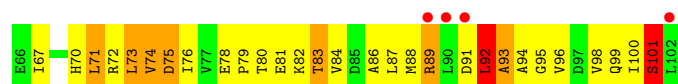


- Molecule 9: 30S ribosomal protein S9

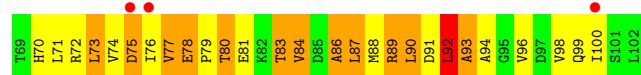
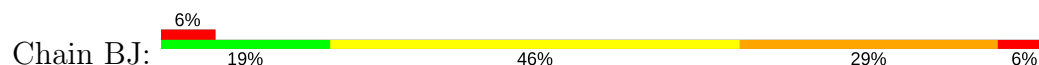


- Molecule 10: 30S ribosomal protein S10





- Molecule 10: 30S ribosomal protein S10



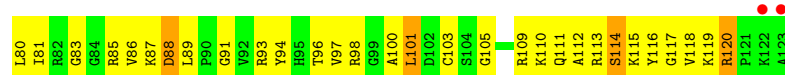
- Molecule 11: 30S ribosomal protein S11



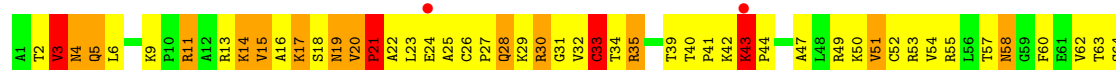
- Molecule 11: 30S ribosomal protein S11

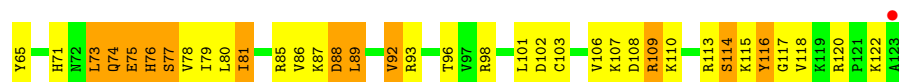


- Molecule 12: 30S ribosomal protein S12

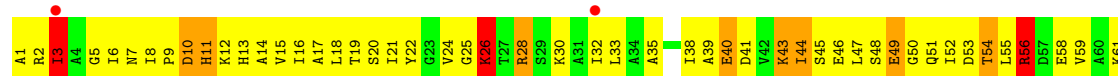


- Molecule 12: 30S ribosomal protein S12

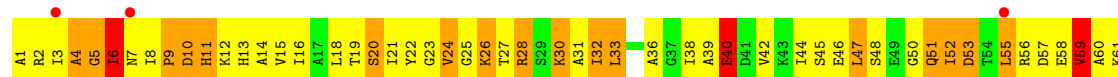
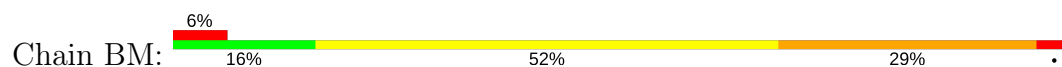




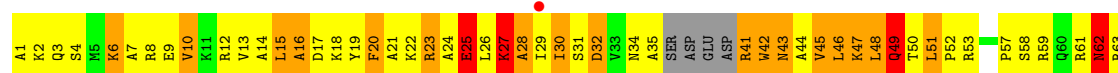
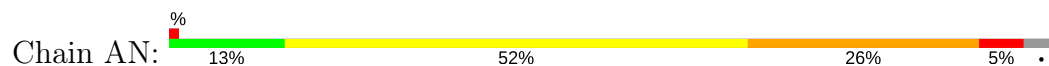
- Molecule 13: 30S ribosomal protein S13



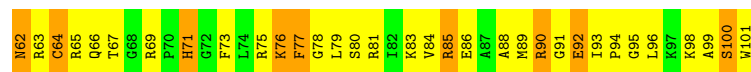
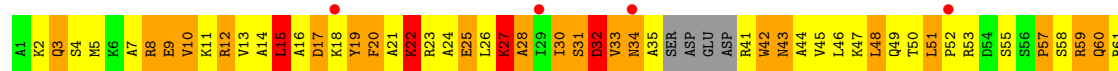
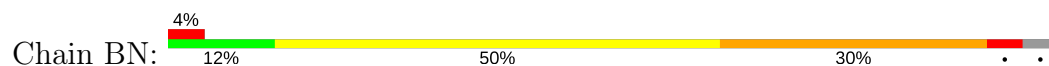
- Molecule 13: 30S ribosomal protein S13



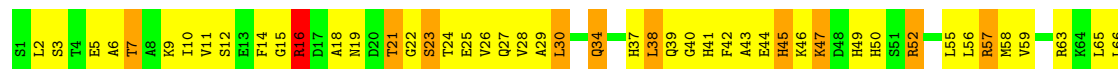
- Molecule 14: 30S ribosomal protein S14



- Molecule 14: 30S ribosomal protein S14

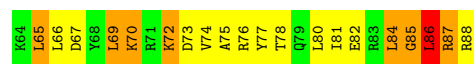


- Molecule 15: 30S ribosomal protein S15

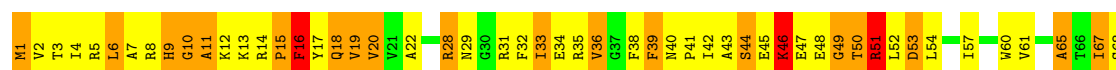
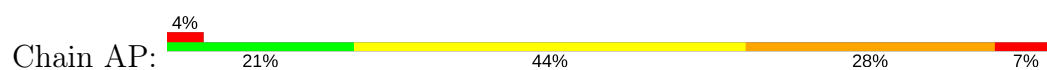




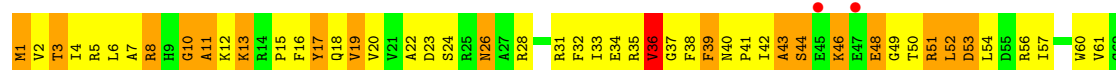
- Molecule 15: 30S ribosomal protein S15



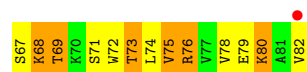
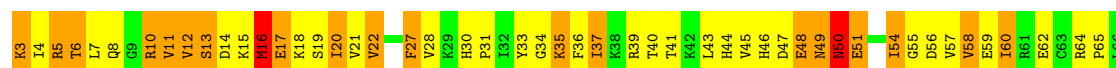
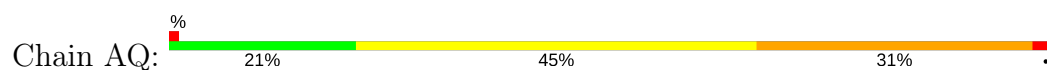
- Molecule 16: 30S ribosomal protein S16



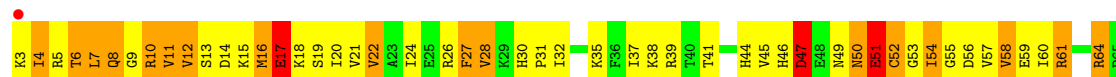
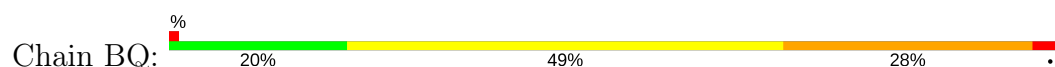
- Molecule 16: 30S ribosomal protein S16



- Molecule 17: 30S ribosomal protein S17

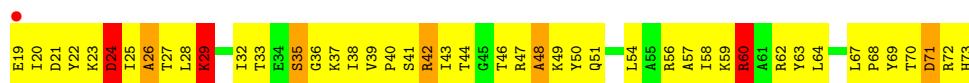


- Molecule 17: 30S ribosomal protein S17

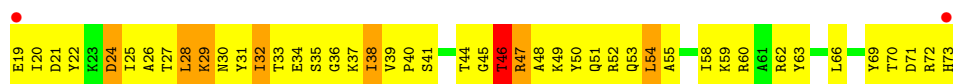




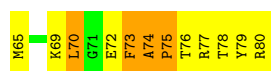
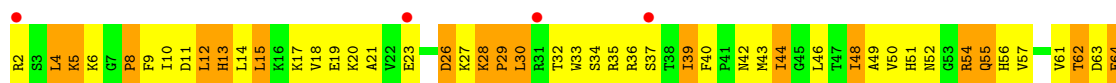
- Molecule 18: 30S ribosomal protein S18



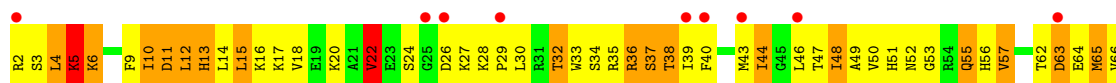
- Molecule 18: 30S ribosomal protein S18



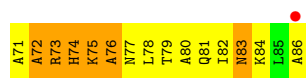
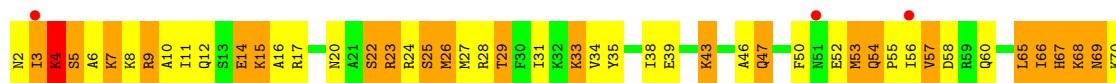
- Molecule 19: 30S ribosomal protein S19



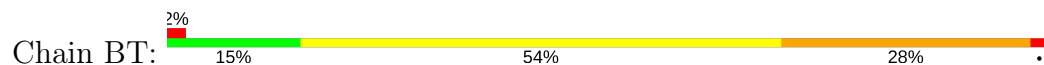
- Molecule 19: 30S ribosomal protein S19

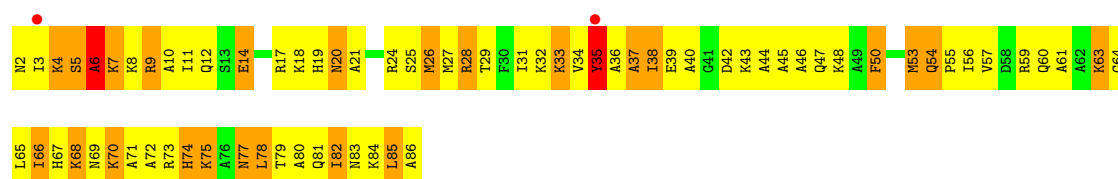


- Molecule 20: 30S ribosomal protein S20

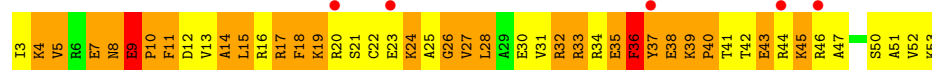


- Molecule 20: 30S ribosomal protein S20

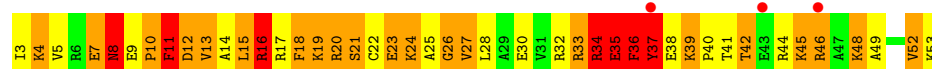




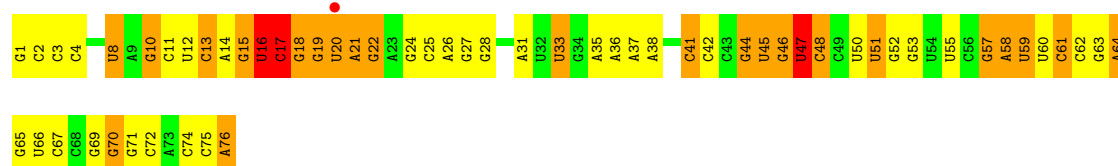
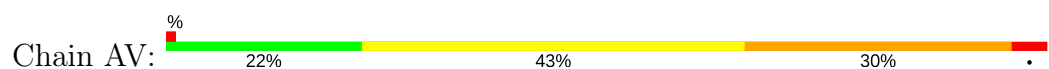
- Molecule 21: 30S ribosomal protein S21



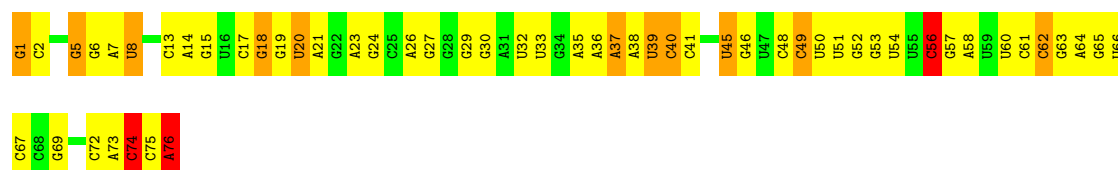
- Molecule 21: 30S ribosomal protein S21



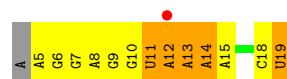
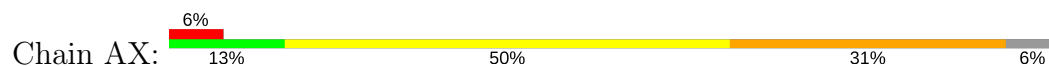
- Molecule 22: phenylalanine specific transfer RNA



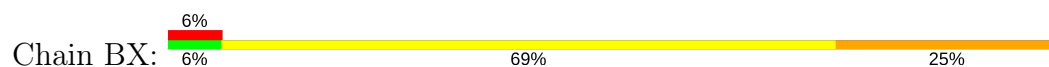
- Molecule 22: phenylalanine specific transfer RNA

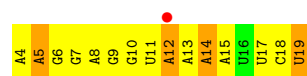


- Molecule 23: messenger RNA

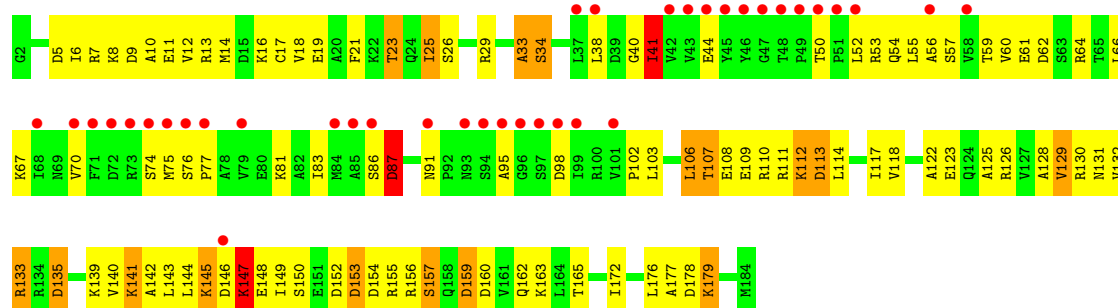


- Molecule 23: messenger RNA

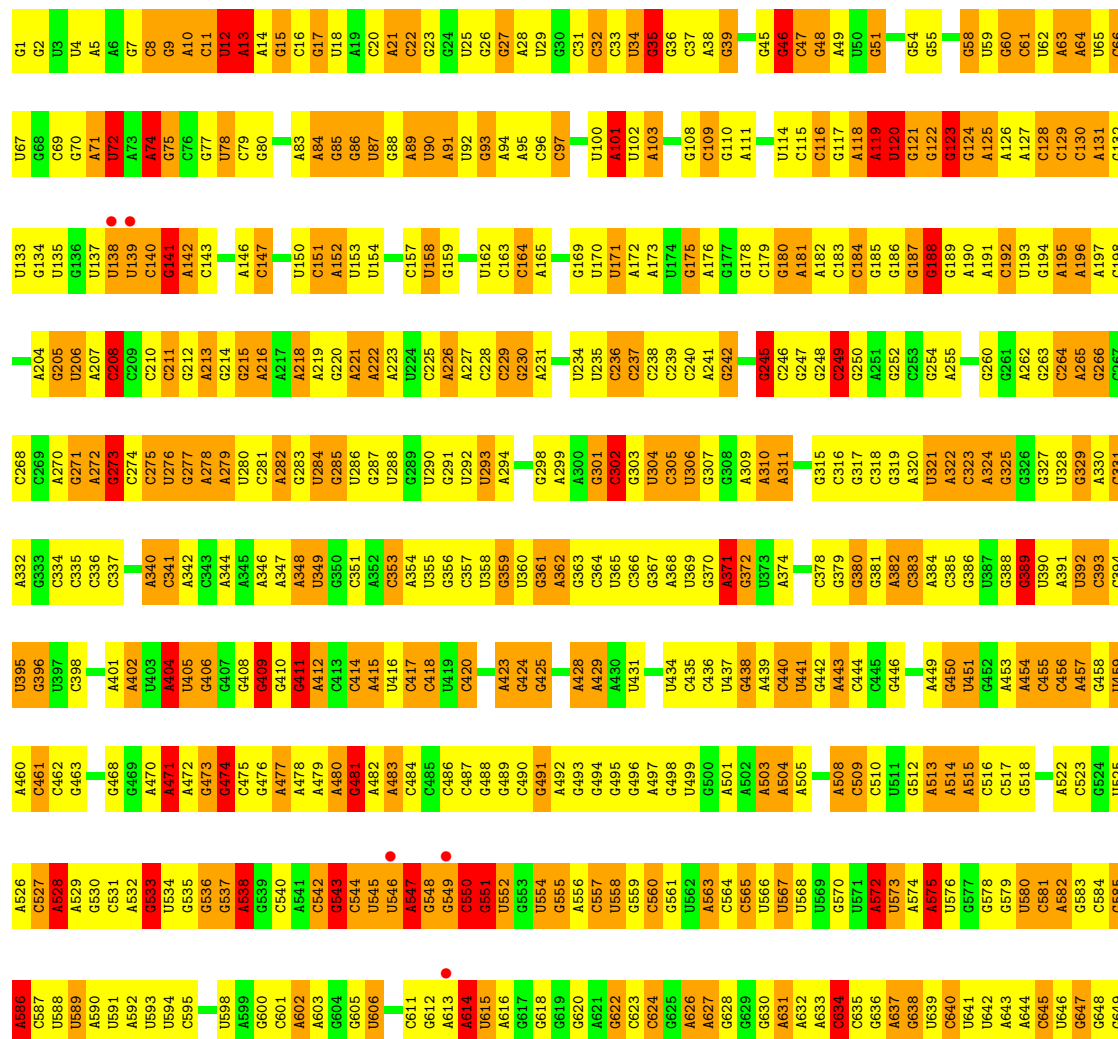
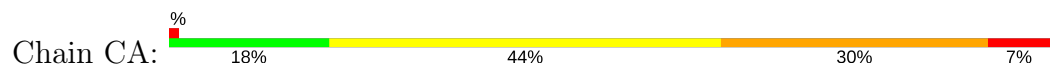




• Molecule 24: ribosome recycling factor

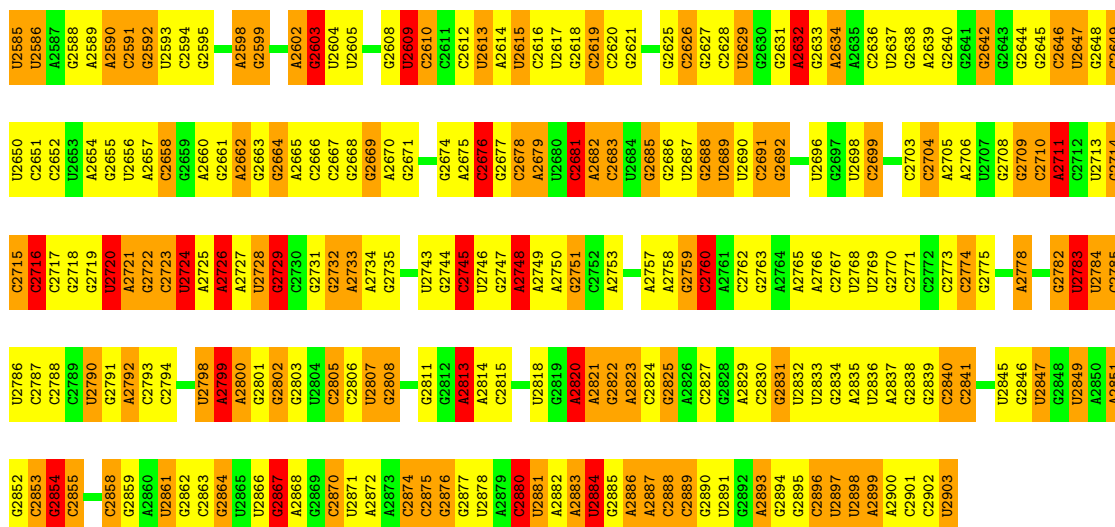


• Molecule 25: 23S rRNA

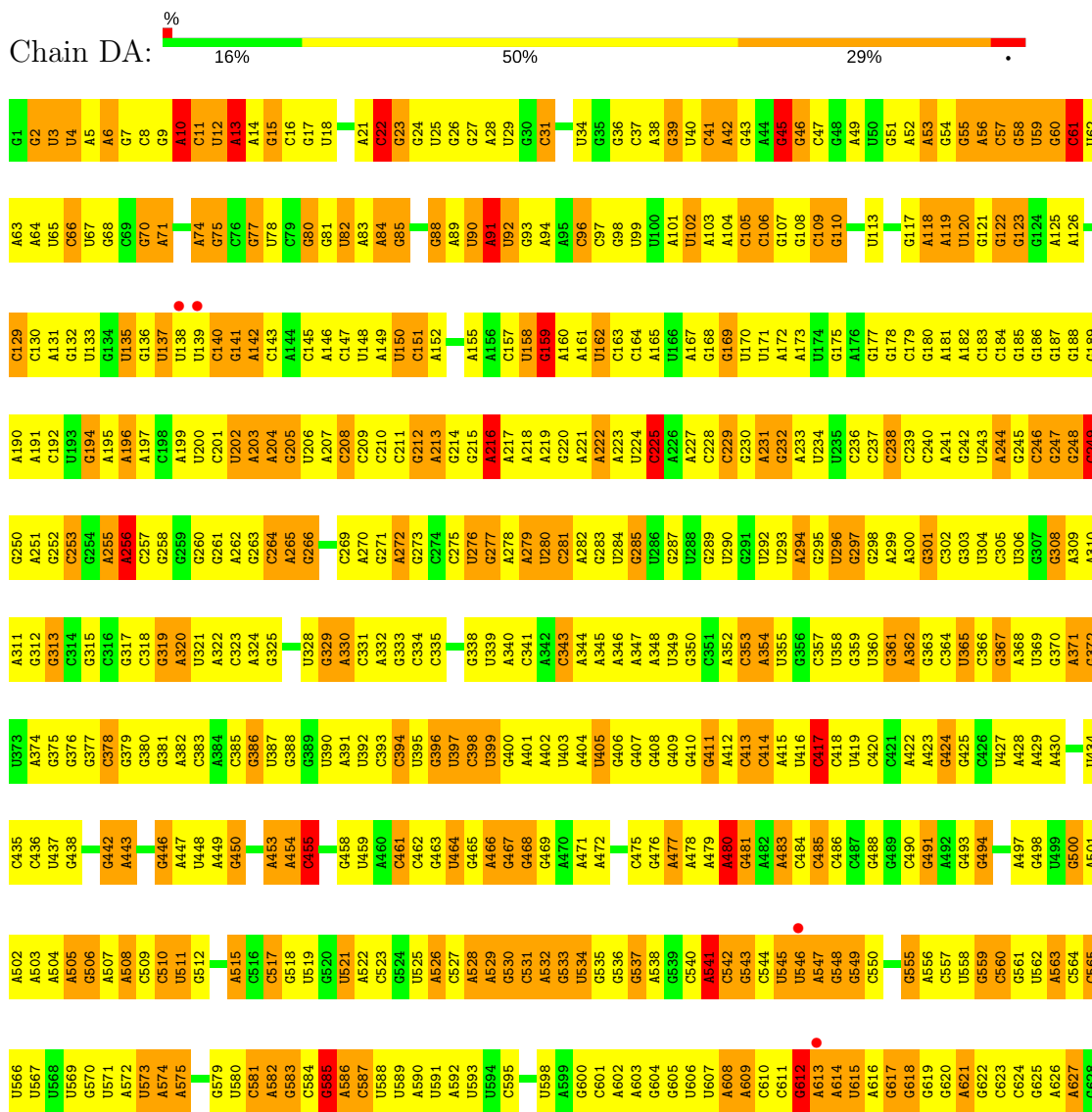


A1583	U1458	U1396	G1332	C1270	U1141	U1081	A1021	A959	U895	A833	U773	G712	C650
U1584	G1459	U1399	C1335	G1271	A1142	U1082	G1022	A960	A896	G834	G774	G713	G653
C1585	U1460	C1336	U1335	A1272	A1143	U1083	G1023	C961	C997	C835	G775	U714	U653
A1586	C1461	C1337	U1336	U1273	A1144	A1084	G1024	G962	C998	G836	G776	A715	A654
C1587	C1462	U1402	G1339	A1274	C1145	A1085	G1025	U963	A999	C837	G777	C717	A655
U1588	G1463	U1403	U1340	C1275	U1148	A1086	G1026	C964	A900	C838	G778	A718	G656
G1589	U1464	C1404	U1341	G1277	G1149	G1087	A1027	U967	C901	U839	U779	C719	U657
A1590	U1465	U1405	G1342	C1278	A1150	A1088	A1028	U968	C902	C840	G780	C720	U658
U1591	U1466	U1406	A1341	G1279	C1151	A1089	A1029	C969	A905	G841	G781	U720	G659
C1592	U1467	G1407	G1343	G1280	U1151	A1090	C1030	G969	U906	U842	A782	A721	C660
A1593	U1468	G1408	U1344	G1281	A1152	A1091	G1031	U970	U907	G843	U783	C722	C661
U1594	U1469	U1409	C1345	G1282	G1154	C1092	A1032	G971	G907	A844	G784	C723	G662
C1595	A1470	G1410	U1346	U1283	U1155	G1093	U1033	A972	C908	A845	U785	U724	G663
U1596	C1471	U1411	C1348	A1284	A1156	U1094	G1034	A973	A909	U846	C786	G725	G664
C1597	C1472	U1412	C1349	A1285	G1157	A1095	U1035	G974	A910	U847	C787	G726	U665
U1598	G1473	A1413	C1350	G1286	C1158	A1096	G1036	A975	A911	U848	A788	A727	A666
G1599	U1474	C1414	U1351	A1287	U1159	A1097	G1037	G976	C912	A849	U789	G728	U667
C1600	G1475	U1415	U1352	G1288	C1160	A1098	U1038	G977	U913	U850	U790	G729	A668
U1601	U1476	C1416	A1353	C1289	G1162	C1099	A1039	G978	G914	C851	C791	A730	G669
G1602	A1477	C1417	U1354	C1290	C1163	C1100	A1040	A979	C915	U852	A792	C731	A670
A1603	U1478	U1418	G1355	C1291	C1164	U1101	G1041	A980	C916	C853	A793	G732	C671
C1604	G1479	A1419	G1356	G1292	A1165	C1102	G1042	A981	A917	C854	A794	G733	C672
U1605	U1480	C1420	C1357	C1293	G1166	A1103	C1043	C982	A918	G855	C795	A734	C673
G1606	U1481	G1421	G1358	U1294	C1167	C1104	C1044	A983	U919	G856	A796	A735	G674
C1607	C1482	G1422	A1359	C1295	G1168	U1105	C1045	A984	A920	G857	G797	C736	G675
U1608	U1483	C1423	C1360	G1296	A1169	G1106	A1046	C985	C921	C858	G798	C737	A676
A1609	G1484	G1424	G1361	C1297	C1170	G1107	G1047	C986	C922	G859	A800	G738	A677
C1610	U1485	U1425	C1362	C1298	G1171	U1108	A1048	C987	C923	U860	C678	A739	C678
U1611	U1486	G1426	U1363	G1299	C1172	C1109	C1049	A988	G924	A861	C801	C740	C679
G1612	U1487	A1427	C1364	U1300	U1173	G1110	A1050	C989	A925	G862	A802	U741	C680
A1613	C1488	G1428	U1365	C1301	U1174	A1111	G1051	A990	G926	A863	U803	A742	G681
U1614	U1489	U1429	A1366	U1302	A1175	G1112	C1052	C991	A927	C864	A804	A743	C682
C1615	G1490	C1430	C1367	A1303	U1176	U1113	G1053	C992	A928	C865	C905	U744	U683
U1616	U1491	A1431	G1368	C1304	C1177	C1114	A1054	G993	U929	A866	C906	G745	G684
G1617	G1492	C1432	C1369	C1305	G1178	G1115	G1055	C994	C930	C867	U807	U746	A685
A1618	U1493	U1433	C1370	U1242	C1179	G1116	G1056	C995	U931	U868	G808	U747	U686
C1619	A1494	A1434	G1371	A1244	U1180	C1117	A1057	A996	U932	G869	G809	G748	C687
U1620	U1495	U1435	U1372	G1245	U1181	C1118	U1058	G997	A933	U870	U810	A749	U688
G1621	A1496	C1436	A1373	U1246	U1182	U1119	G1059	C998	U934	U871	U811	A750	A689
U1622	C1499	G1437	G1374	G1247	G1183	U1120	U1060	U999	C935	U872	C812	A751	C690
C1623	G1500	U1438	U1375	U1248	U1184	C1121	U1061	A1000	A936	C873	U813	A752	C691
U1624	U1501	C1439	C1376	U1249	G1185	G1122	G1062	A1001	C937	C874	C814	A753	C692
G1625	C1502	U1440	A1378	C1251	G1186	C1123	G1063	G1002	G938	A877	C815	U754	A693
A1626	A1503	U1441	U1379	G1252	U1187	G1124	C1064	G1003	G939	A878	C816	G757	U694
C1627	U1504	U1442	C1380	A1253	U1188	G1125	U1065	U1004	G940	C879	C817	G758	C697
U1628	U1505	U1443	G1381	U1254	A1189	A1126	U1066	C1005	A941	G880	G818	C759	C698
G1629	C1506	U1444	C1382	U1255	G1190	A1127	A1067	C1006	G942	G881	A819	G760	A699
A1630	U1507	G1445	A1383	C1319	G1191	G1128	G1068	C1007	A943	G882	A820	A761	G700
C1631	C1508	U1446	A1384	C1320	C1257	A1129	A1069	A1008	C944	G883	A821	C762	G701
U1632	U1509	C1447	A1385	U1258	U1192	U1130	A1070	A1009	A945	U884	G822	U763	U702
G1633	A1510	U1448	C1386	G1321	G1195	G1131	C1071	C885	C946	C885	C823	G764	U703
A1634	U1511	G1449	A1387	A1322	C1196	U1132	C1072	A	U	A	U824	A765	G704
C1635	C1512	U1450	G1388	C1323	G1197	A1133	A1073	C	C	U	A825	U766	A705
U1636	U1513	C1451	G1389	G1324	U1198	A1134	G1074	C	C	C	U826	U767	A706
G1637	G1514	G1452	U1390	U1326	U1199	C1135	C1075	C	C	C	U827	U768	G707
A1638	U1515	U1391	C1389	A1327	C1200	G1136	C1076	G	G	C	U828	U769	G708
C1639	C1516	A1392	A1392	A1328	U1203	G1137	A1077	C	C	A829	G830	G770	U709
U1640	U1517	A1393	C1393	G1329	A1204	G1138	U1078	U1018	G956	A892	G831	G771	U710
A1641	G1518	U1454	G1456	C1330	A1268	G1139	C1079	C831	U958	U894	A1080	C772	G711
G1642	U1519	C1455	A1457	G1331	A1269	C1140	A1080	A1020					
C1643	U1520												
A1644													

G2523	G2524	G2525	G2526	G2527	G2528	G2529	G2530	A2531	G2532	G2533	G2534	G2535	G2538	G2539	G2540	G2541	G2542	G2543	G2544	G2545	G2546	G2547	G2548	G2549	G2550	G2551	G2552	G2553	G2554	G2555	G2556	G2557	A2560	G2561	G2562	G2563	A2564	A2565	G2566	G2567	G2568	G2569	G2570	G2571	G2572	G2573	G2574	G2575	G2576	G2577	G2578	G2579	G2580	G2581	G2582	G2583	G2584								
C2461	C2462	C2463	C2464	C2465	C2466	C2467	C2468	C2469	C2470	C2471	C2472	C2473	C2474	C2475	C2476	C2477	C2478	C2479	C2480	C2481	C2482	C2483	C2484	C2485	C2486	C2487	C2488	C2489	C2490	C2491	C2492	C2493	C2494	C2495	C2496	C2497	C2498	C2499	C2500	C2501	C2502	C2503	C2504	C2505	C2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522				
G1645	G1646	G1647	G1648	G1649	G1650	G1651	G1652	G1653	G1654	G1655	G1656	G1657	G1658	G1659	G1660	G1661	G1662	G1663	G1664	G1665	G1666	G1667	G1668	G1669	G1670	G1671	G1672	G1673	G1674	G1675	G1676	G1677	G1678	G1679	G1680	G1681	G1682	G1683	G1684	G1685	G1686	G1687	G1688	G1689	G1690	G1691	G1692	G1693	G1694	G1695	G1696	G1697	G1698	G1699	G1700	G1701	G1702	G1703	G1704	G1705	G1706				
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
G1835	G1836	G1837	G1838	G1839	G1840	G1841	G1842	G1843	G1844	G1845	G1846	G1847	G1848	G1849	G1850	G1851	G1852	G1853	G1854	G1855	G1856	G1857	G1858	G1859	G1860	G1861	G1862	G1863	G1864	G1865	G1866	G1867	G1868	G1869	G1870	G1871	G1872	G1873	G1874	G1875	G1876	G1877	G1878	G1879	G1880	G1881	G1882	G1883	G1884	G1885	G1886	G1887	G1888	G1889	G1890	G1891	G1892	G1893	G1894	G1895	G1896				
G1897	G1898	G1899	G1900	G1901	G1902	G1903	G1904	G1905	G1906	G1907	G1908	G1909	G1910	G1911	G1912	G1913	G1914	G1915	G1916	G1917	G1918	G1919	G1920	G1921	G1922	G1923	G1924	G1925	G1926	G1927	G1928	G1929	G1930	G1931	G1932	G1933	G1934	G1935	G1936	G1937	G1938	G1939	G1940	G1941	G1942	G1943	G1944	G1945	G1946	G1947	G1948	G1949	G1950	G1951	G1952	G1953	G1954	G1955	G1956	G1957	G1958	G1959			
A1960	C1961	C1962	C1963	C1964	C1965	C1966	C1967	C1968	C1969	C1970	C1971	C1972	C1973	C1974	C1975	C1976	C1977	C1978	C1979	C1980	C1981	C1982	C1983	C1984	C1985	C1986	C1987	C1988	C1989	C1990	C1991	C1992	C1993	C1994	C1995	C1996	C1997	C1998	C1999	C2000	C2001	C2002	C2003	C2004	C2005	C2006	C2007	C2008	C2009	C2010	C2011	C2012	C2013	C2014	C2015	C2016	C2017	C2018	C2019	C2020	C2021	C2022	C2023	C2024	
C2025	C2026	C2027	C2028	C2029	C2030	C2031	C2032	C2033	C2034	C2035	C2036	C2037	C2038	C2039	C2040	C2041	C2042	C2043	C2044	C2045	C2046	C2047	C2048	C2049	C2050	C2051	C2052	C2053	C2054	C2055	C2056	C2057	C2058	C2059	C2060	C2061	C2062	C2063	C2064	C2065	C2066	C2067	C2068	C2069	C2070	C2071	C2072	C2073	C2074	C2075	C2076	C2077	C2078	C2079	C2080	C2081	C2082	C2083	C2084	C2085					
U2086	G2087	A2088	C2089	C2090	C2091	C2092	C2093	C2094	C2095	C2096	C2097	C2098	C2099	C2100	C2101	C2102	C2103	C2104	C2105	C2106	C2107	C2108	C2109	C2110	C2111	C2112	C2113	C2114	C2115	C2116	C2117	C2118	C2119	C2120	C2121	C2122	C2123	C2124	C2125	C2126	C2127	C2128	C2129	C2130	C2131	C2132	C2133	C2134	C2135	C2136	C2137	C2138	C2139	C2140	C2141	C2142	C2143	C2144	C2145	C2146	C2147				
U2148	U2149	U2150	U2151	U2152	U2153	U2154	U2155	U2156	U2157	U2158	U2159	U2160	U2161	U2162	U2163	U2164	U2165	U2166	U2167	U2168	U2169	U2170	U2171	U2172	U2173	U2174	U2175	U2176	U2177	U2178	U2179	U2180	U2181	U2182	U2183	U2184	U2185	U2186	U2187	U2188	U2189	U2190	U2191	U2192	U2193	U2194	U2195	U2196	U2197	U2198	U2199	U2200	U2201	U2202	U2203	U2204	U2205	U2206	U2207	U2208	U2209				
U2210	A2211	A2212	U2213	U2214	U2215	U2216	U2217	U2218	U2219	U2220	U2221	U2222	U2223	U2224	U2225	U2226	U2227	U2228	U2229	U2230	U2231	U2232	U2233	U2234	U2235	U2236	U2237	U2238	U2239	U2240	U2241	U2242	U2243	U2244	U2245	U2246	U2247	U2248	U2249	U2250	U2251	U2252	U2253	U2254	U2255	U2256	U2257	U2258	U2259	U2260	U2261	U2262	U2263	U2264	U2265	U2266	U2267	U2268	U2269	U2270					
G2271	U2272	A2273	A2274	G2275	G2276	G2277	G2278	G2279	G2280	G2281	G2282	G2283	G2284	G2285	G2286	G2287	G2288	G2289	G2290	G2291	G2292	G2293	G2294	G2295	G2296	G2297	G2298	G2299	G2300	G2301	G2302	G2303	G2304	G2305	G2306	G2307	G2308	G2309	G2310	G2311	G2312	G2313	G2314	G2315	G2316	G2317	G2318	G2319	G2320	G2321	G2322	G2323	G2324	G2325	G2326	G2327	G2328	G2329	G2330	G2331	G2332				
A2333	U2334	A2335	A2336	A2337	A2338	A2339	A2340	A2341	A2342	A2343	A2344	A2345	A2346	A2347	A2348	A2349	A2350	A2351	A2352	A2353	A2354	A2355	A2356	A2357	A2358	A2359	A2360	A2361	A2362	A2363	A2364	A2365	A2366	A2367	A2368	A2369	A2370	A2371	A2372	A2373	A2374	A2375	A2376	A2377	A2378	A2379	A2380	A2381	A2382	A2383	A2384	A2385	A2386	A2387	A2388	A2389	A2390	A2391	A2392	A2393	A2394	A2395	A2396	A2397	
G2400	U2401	U2402	U2403	U2404	U2405	U2406	U2407	U2408	U2409	U2410	U2411	U2412	U2413	U2414	U2415	U2416	U2417	U2418	U2419	U2420	U2421	U2422	U2423	U2424	U2425	U2426	U2427	U2428	U2429	U2430	U2431	U2432	U2433	U2434	U2435	U2436	U2437	U2438	U2439	U2440	U2441	U2442	U2443	U2444	U2445	U2446	U2447	U2448	U2449	U2450	U2451	U2452	U2453	U2454	U2455	U2456	U2457	U2458	U2459	U2460					
A2461	C2462	C2463	C2464	C2465	C2466	C2467	C2468	C2469	C2470	C2471	C2472	C2473	C2474	C2475	C2476	C2477	C2478	C2479	C2480	C2481	C2482	C2483	C2484	C2485	C2486	C2487	C2488	C2489	C2490	C2491	C2492	C2493	C2494	C2495	C2496	C2497	C2498	C2499	C2500	C2501	C2502	C2503	C2504	C2505	C2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522				
G2523	G2524	G2525	G2526	G2527	G2528	G2529	G2530	A2531	G2532	G2533	G2534	G2535	G2538	G2539	G2540	G2541	G2542	G2543	G2544	G2545	G2546	G2547	G2548	G2549	G2550	G2551	G2552	G2553	G2554	G2555	G2556	G2557	A2560	G2561	G2562	G2563	A2564	A2565	G2566	G2567	G2568	G2569	G2570	G2571	G2572	G2573	G2574	G2575	G2576	G2577	G2578	G2579	G2580	G2581	G2582	G2583	G2584								

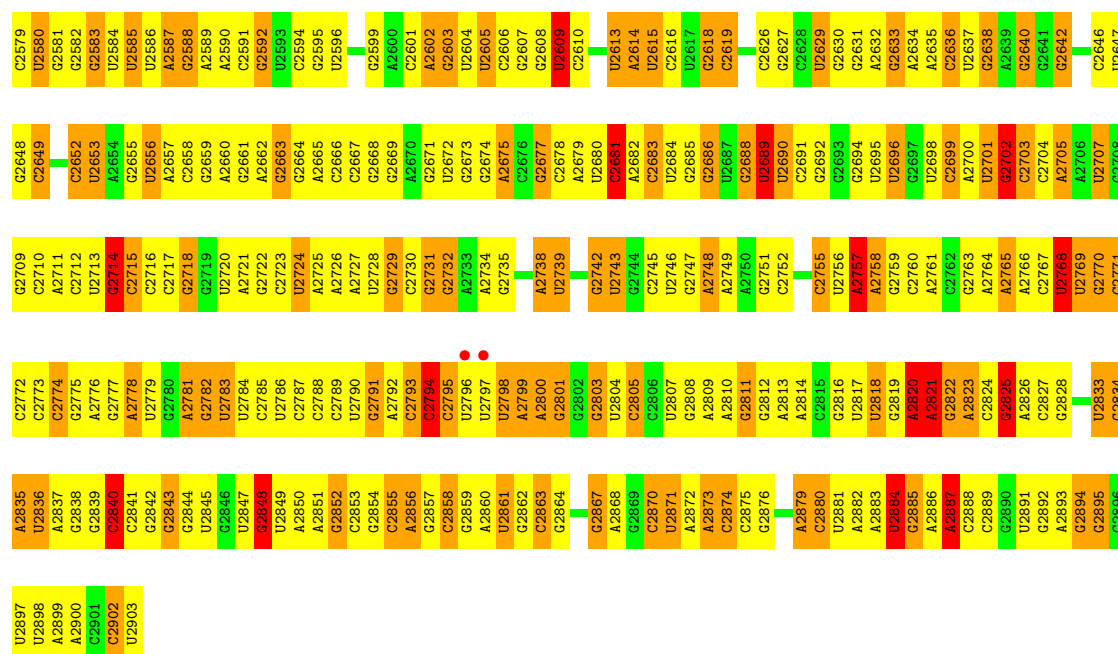


- Molecule 25: 23S rRNA

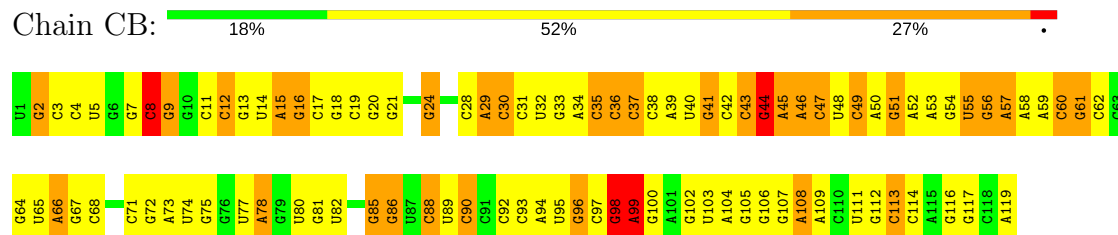


G1567	U1506	C1446	C1386	U1326	C1257	A1194	A1133	A1073	G1011	C946	G881	A819	A756	G692	G629
G1568	C1507	C1447	C1387	A1327	U1258	G1195	A1134	C1074	U1012	A947	G882	A820	G757	A693	G630
A1569	A1508	G1448	G1388	A1328	C1259	C1196	C1135	C1075	A1013	C948	G883	A821	C948	A694	A631
A1570	A1509	G1449	G1389	U1329	A1260	G1197	G1136	C1076	A1014	G949	G884	G822	G760	A632	A632
A1571	G1510	G1450	U1390	C1330	C1261	U1198	G1137	A1077	U1015	G950	C885	C823	A761	C698	A633
A1572	C1511	C1451	U1391	G1331	A1262	U1199	G1138	U1078	G1016	G954	A	U824	U762	C634	C634
G1573	U1512	G1452	A1392	G1332	U1263	C1200	G1139	C1079	G1017	U955	U	A825	G763	C635	C635
C1574	C1513	A1453	A1393	G1333	A1264	U1203	C1140	A1080	U1018	U956	C	U826	A764	G636	G636
G1575	G1514	A1454	U1394	G1334	C1265	G1203	U1141	A1081	U1019	G956	C	U827	C765	A637	A637
U1576	A1515	G1455	A1395	C1335	G1266	A1204	A1142	U1082	A1020	C957	C	U828	G704	G703	G638
C1577	G1516	G1456	U1396	A1336	U1267	A1205	A1143	U1083	A1021	C958	G	A829	A705	U639	U639
U1578	C1517	U1457	U1397	G1337	A1268	G1206	A1144	A1084	G1022	U958	A892	G830	U769	C640	C640
A1579	U1518	G1458	C1398	G1338	A1269	C1207	C1145	A1085	U1023	C961	C893	G831	G771	U641	U641
A1580	G1519	G1459	C1399	G1339	C1270	C1208	C1146	A1086	G1024	G962	U894	U832	C772	U642	U642
G1581	U1520	U1460	U1400	U1340	G1271	U1212	G1149	G1087	G1025	U963	U895	A833	U773	A643	A643
C1582	G1521	C1461	G1401	A1341	A1272	G1212	C1150	A1088	G1026	C964	U896	G834	G774	A644	A644
A1583	A1522	A1462	U1402	A1342	U1273	A1213	C1151	A1089	A1027	C897	C897	G835	G775	C845	C845
U1584	U1523	C1463	A1403	A1343	A1275	A1214	A1151	A1090	A1028	U967	C898	U838	G776	U646	U646
C1585	G1524	G1464	C1404	U1344	A1276	G1215	C1152	G1091	A1029	C968	A899	U839	G777	G647	G647
A1586	A1525	G1465	U1405	C1345	C1277	G1216	C1153	C1092	C1086	G969	A900	U840	G778	G648	G648
G1587	U1526	U1466	U1406	G1346	C1278	U1217	G1154	G1093	G1031	U970	A901	G841	U779	C650	C650
U1588	G1527	U1467	G1407	A1347	G1281	G1218	A1155	A1094	U1032	A973	C902	G843	G780	A718	A718
A1589	A1528	U1468	G1408	C1348	U1282	U1219	A1156	A1095	U1033	G974	C903	U842	A782	C719	C719
U1590	G1529	A1469	U1409	C1349	G1283	G1220	G1157	A1096	G1034	A975	A905	A844	A783	U720	U720
A1591	G1530	A1470	G1410	C1350	U1283	C1221	C1158	U1097	U1035	A976	U906	A845	G784	A721	A721
C1592	C1531	G1471	U1411	C1351	U1222	U1222	U1159	A1098	G1036	G976	G907	A846	G785	G656	G656
A1593	A1532	C1472	A1412	U1352	A1286	G1223	G1160	G1099	G1037	G977	C908	U847	G786	U657	U657
U1594	C1533	G1473	A1413	A1353	A1287	U1224	C1161	C1100	G1038	G978	A909	U848	C787	G658	G658
A1595	U1534	U1474	C1414	A1354	G1288	G1225	G1162	U1101	U1039	A979	C910	C848	C787	G659	G659
C1596	A1535	G1475	U1415	C1355	C1289	A1226	G1163	C1102	G1042	A980	A910	A849	A788	G725	C660
A1597	G1536	U1476	G1416	G1356	C1290	G1227	C1164	A1103	C1043	A981	A911	U850	A789	G726	G726
U1598	U1537	A1477	C1417	C1357	C1291	G1228	A1165	C1104	C1044	C982	C912	C851	U790	A727	A727
G1599	G1538	G1478	G1418	G1358	G1292	C1229	U1166	C1045	U913	A983	U913	U852	C791	G727	G727
C1600	U1539	G1479	A1419	A1359	C1293	A1230	C1167	G1106	A1046	A984	C914	C853	A792	G729	U665
G1601	G1540	C1480	A1420	G1360	U1294	U1231	G1168	G1107	A1047	C985	C915	C854	A793	A730	A666
U1602	C1541	U1481	G1421	C1361	C1295	G1232	A1169	U1108	A1048	C986	G916	G855	A794	U667	U667
A1603	U1542	G1482	G1422	C1362	C1295	C1233	C1170	C1109	C1049	C987	A917	G856	C795	C732	A668
C1604	G1543	G1483	G1423	C1363	C1298	U1234	G1171	G1110	A1050	A988	A918	G857	C796	G733	G669
C1605	A1544	U1484	G1424	G1364	G1299	G1235	C1172	A1111	G1051	A989	U919	G858	G797	A734	A670
U1606	U1545	U1485	G1425	A1365	G1300	G1236	U1173	G1112	C1052	A990	A920	G859	G798	A735	C671
C1607	G1546	U1486	G1426	A1366	A1301	A1237	U1174	U1113	C1053	C991	C921	U860	G799	C736	C672
A1608	C1547	U1487	A1427	A1367	A1302	G1238	A1175	C1114	A1054	C992	A861	U861	A800	C737	C673
U1609	A1548	C1488	G1428	G1368	G1303	G1239	U1176	G1115	G1055	G993	A927	G862	G801	G738	G674
A1610	C1549	C1489	G1429	G1369	C1304	U1240	G1177	G1116	G1056	C994	A928	A863	A802	A739	A675
C1611	A1551	A1490	G1430	C1370	G1310	A1241	C1178	C1117	A1057	C995	U929	G864	U603	C740	A676
G1612	A1552	G1491	A1431	G1371	G1311	U1242	G1179	C1118	U1058	A996	U930	C865	A904	U741	A677
C1613	U1553	G1492	G1432	U1372	U1312	C1243	U1180	C1119	G1059	G997	U931	U872	G805	A742	C678
A1614	U1554	C1493	A1433	A1373	U1313	A1244	U1181	G1120	U1060	C998	U932	G873	C806	A743	C679
C1615	G1555	A1494	A1434	G1374	C1314	G1245	G1182	C1121	U1061	U999	A933	U870	U607	U744	C680
A1616	C1556	A1495	G1435	U1375	C1315	A1246	U1183	G1122	G1062	A1000	U934	U871	G808	G745	G681
C1617	U1557	A1496	G1436	C1376	U1316	A1247	U1184	C1123	G1063	A1001	C935	U872	G809	U746	G682
A1618	C1558	U1497	U1437	G1377	G1317	G1248	G1185	G1124	C1064	G1002	A936	U873	U810	U747	U683
U1621	U1559	C1498	A1438	A1378	U1318	U1249	G1186	G1125	U1065	G1003	G939	U874	U811	G748	A685
G1622	G1560	C1499	U1439	U1379	C1319	G1250	G1187	A1126	U1066	U1004	G939	G875	C812	A749	G686
C1623	U1561	G1500	U1440	G1380	C1320	G1251	U1188	A1127	A1067	C1005	G940	U876	U813	A750	U687
U1624	U1562	G1501	A1441	C1381	A1321	G1252	A1189	G1128	G1068	C1006	A941	C876	C814	A751	C687
C1626	U1563	A1502	U1442	G1382	A1322	A1253	G1190	A1129	A1069	C1007	G942	A877	C815	A752	U688
U1629	C1564	A1503	U1443	A1383	C1323	G1254	G1191	U1130	A1070	A1008	A943	A878	C816	A753	A689
A1626	G1565	A1504	G1444	C1384	U1255	U1255	C1192	G1131	G1071	C944	C944	G879	C817	U754	G690
U1629	A1566	A1505	G1445	A1385	U1325	G1256	G1193	U1132	C1072	A1010	A945	G880	G818	U755	C691

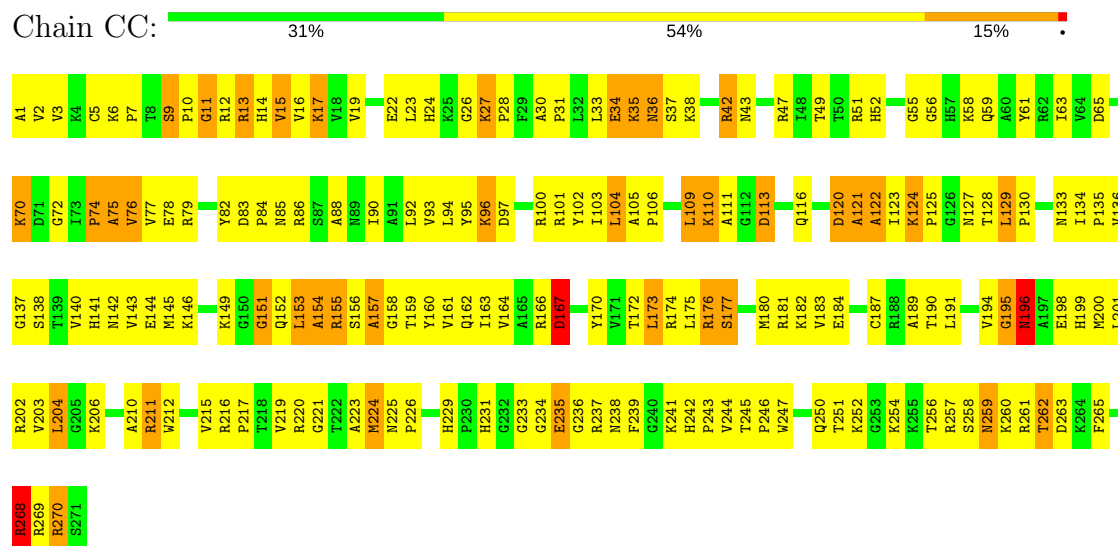
A2518	A2519	C2520	C2521	C2522	C2523	C2524	C2525	C2526	C2527	C2528	C2529	C2530	C2531	C2532	C2533	C2534	C2535	C2536	C2537	C2538	C2539	C2540	C2541	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	C2551	C2552	C2553	C2554	C2555	C2556	C2557	C2558	C2559	C2560	C2561	C2562	C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	C2573	C2574	C2575	C2576	C2577	C2578										
U2383	U2384	U2385	U2386	U2387	U2388	U2389	U2390	U2391	U2392	U2393	U2394	U2395	U2396	U2397	U2398	U2399	U2400	U2401	U2402	U2403	U2404	U2405	U2406	U2407	U2408	U2409	U2410	U2411	U2412	U2413	U2414	U2415	U2416	U2417	U2418	U2419	U2420	U2421	U2422	U2423	U2424	U2425	U2426	U2427	U2428	U2429	U2430	U2431	U2432	U2433	U2434	U2435	U2436	U2437	U2438	U2439	U2440	U2441	U2442	U2443	U2444	U2445	U2446	U2447	U2448	U2449	U2450	U2451	U2452	U2453
C2206	C2207	C2208	C2209	C2210	C2211	C2212	C2213	C2214	C2215	C2216	C2217	C2218	C2219	C2220	C2221	C2222	C2223	C2224	C2225	C2226	C2227	C2228	C2229	C2230	C2231	C2232	C2233	C2234	C2235	C2236	C2237	C2238	C2239	C2240	C2241	C2242	C2243	C2244	C2245	C2246	C2247	C2248	C2249	C2250	C2251	C2252	C2253	C2254	C2255	C2256	C2257	C2258	C2259	C2260	C2261	C2262	C2263	C2264	C2265	C2266	C2267	C2268	C2269	C2270						
C2145	C2146	C2147	C2148	C2149	C2150	C2151	C2152	C2153	C2154	C2155	C2156	C2157	C2158	C2159	C2160	C2161	C2162	C2163	C2164	C2165	C2166	C2167	C2168	C2169	C2170	C2171	C2172	C2173	C2174	C2175	C2176	C2177	C2178	C2179	C2180	C2181	C2182	C2183	C2184	C2185	C2186	C2187	C2188	C2189	C2190	C2191	C2192	C2193	C2194	C2195	C2196	C2197	C2198	C2199	C2200	C2201	C2202	C2203	C2204	C2205										
U2076	U2077	U2078	U2079	U2080	U2081	U2082	U2083	U2084	U2085	U2086	U2087	U2088	U2089	U2090	U2091	U2092	U2093	U2094	U2095	U2096	U2097	U2098	U2099	U2100	U2101	U2102	U2103	U2104	U2105	U2106	U2107	U2108	U2109	U2110	U2111	U2112	U2113	U2114	U2115	U2116	U2117	U2118	U2119	U2120	U2121	U2122	U2123	U2124	U2125	U2126	U2127	U2128	U2129	U2130	U2131	U2132	U2133	U2134	U2135	U2136	U2137	U2138	U2139	U2140	U2141	U2142	U2143	U2144		
A2015	A2016	A2017	A2018	A2019	A2020	A2021	A2022	A2023	A2024	A2025	A2026	A2027	A2028	A2029	A2030	A2031	A2032	A2033	A2034	A2035	A2036	A2037	A2038	A2039	A2040	A2041	A2042	A2043	A2044	A2045	A2046	A2047	A2048	A2049	A2050	A2051	A2052	A2053	A2054	A2055	A2056	A2057	A2058	A2059	A2060	A2061	A2062	A2063	A2064	A2065	A2066	A2067	A2068	A2069	A2070	A2071	A2072	A2073	A2074	A2075										
G1948	G1949	G1950	G1951	G1952	G1953	G1954	G1955	G1956	G1957	G1958	G1959	G1960	G1961	G1962	G1963	G1964	G1965	G1966	G1967	G1968	G1969	G1970	G1971	G1972	G1973	G1974	G1975	G1976	G1977	G1978	G1979	G1980	G1981	G1982	G1983	G1984	G1985	G1986	G1987	G1988	G1989	G1990	G1991	G1992	G1993	G1994	G1995	G1996	G1997	G1998	G1999	G2000	G2001	G2002	G2003	G2004	G2005	G2006	G2007	G2008	G2009	G2010	G2011	G2012	G2013	G2014				
U1886	U1887	U1888	U1889	U1890	U1891	U1892	U1893	U1894	U1895	U1896	U1897	U1898	U1899	U1900	U1901	U1902	U1903	U1904	U1905	U1906	U1907	U1908	U1909	U1910	U1911	U1912	U1913	U1914	U1915	U1916	U1917	U1918	U1919	U1920	U1921	U1922	U1923	U1924	U1925	U1926	U1927	U1928	U1929	U1930	U1931	U1932	U1933	U1934	U1935	U1936	U1937	U1938	U1939	U1940	U1941	U1942	U1943	U1944	U1945	U1946	U1947									
C1822	C1823	C1824	C1825	C1826	C1827	C1828	C1829	C1830	C1831	C1832	C1833	C1834	C1835	C1836	C1837	C1838	C1839	C1840	C1841	C1842	C1843	C1844	C1845	C1846	C1847	C1848	C1849	C1850	C1851	C1852	C1853	C1854	C1855	C1856	C1857	C1858	C1859	C1860	C1861	C1862	C1863	C1864	C1865	C1866	C1867	C1868	C1869	C1870	C1871	C1872	C1873	C1874	C1875	C1876	C1877	C1878	C1879	C1880	C1881	C1882	C1883	C1884	C1885	C1886	C1887					
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							
G1696	G1697	G1698	G1699	G1700	G1701	G1702	G1703	G1704	G1705	G1706	G1707	G1708	G1709	G1710	G1711	G1712	G1713	G1714	G1715	G1716	G1717	G1718	G1719	G1720	G1721	G1722	G1723	G1724	G1725	G1726	G1727	G1728	G1729	G1730	G1731	G1732	G1733	G1734	G1735	G1736	G1737	G1738	G1739	G1740	G1741	G1742	G1743	G1744	G1745	G1746	G1747	G1748	G1749	G1750	G1751	G1752	G1753	G1754	G1755	G1756										
A1630	A1631	A1632	A1633	A1634	A1635	A1636	A1637	A1638	A1639	A1640	A1641	A1642	A1643	A1644	A1645	A1646	A1647	A1648	A1649	A1650	A1651	A1652	A1653	A1654	A1655	A1656	A1657	A1658	A1659	A1660	A1661	A1662	A1663	A1664	A1665	A1666	A1667	A1668	A1669	A1670	A1671	A1672	A1673	A1674	A1675	A1676	A1677	A1678	A1679	A1680	A1681	A1682	A1683	A1684	A1685	A1686	A1687	A1688	A1689	A1690	A1691	A1692	A1693	A1694	A1695					



- Molecule 26: 5S rRNA

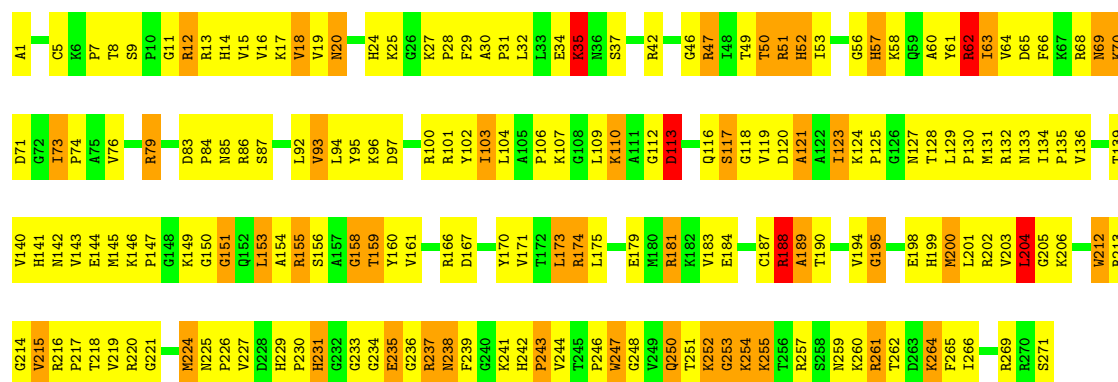


- Molecule 27: 50S ribosomal protein L2



- Molecule 27: 50S ribosomal protein L2

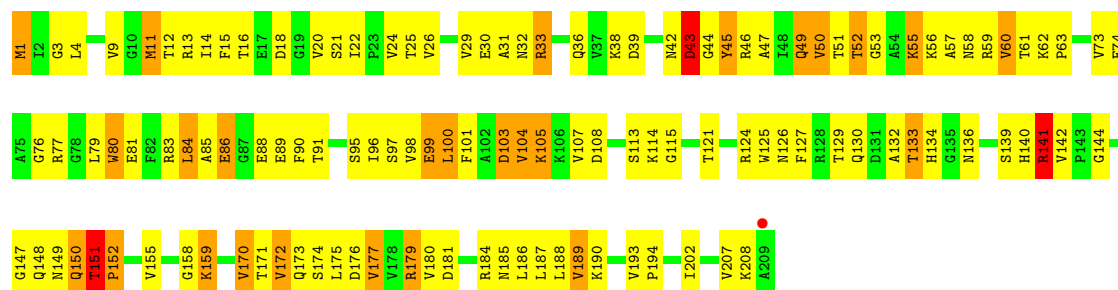




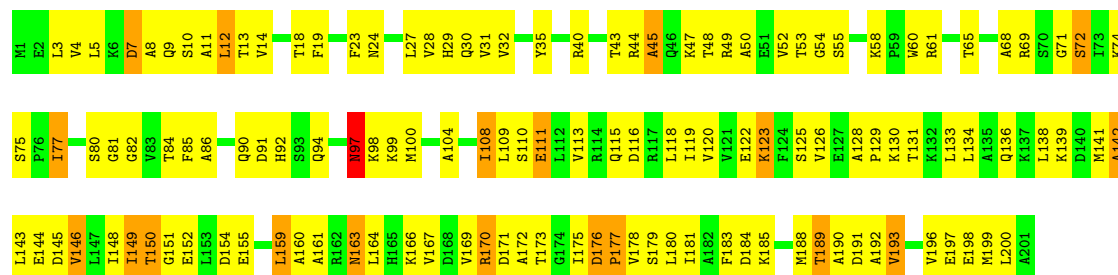
- Molecule 28: 50S ribosomal protein L3



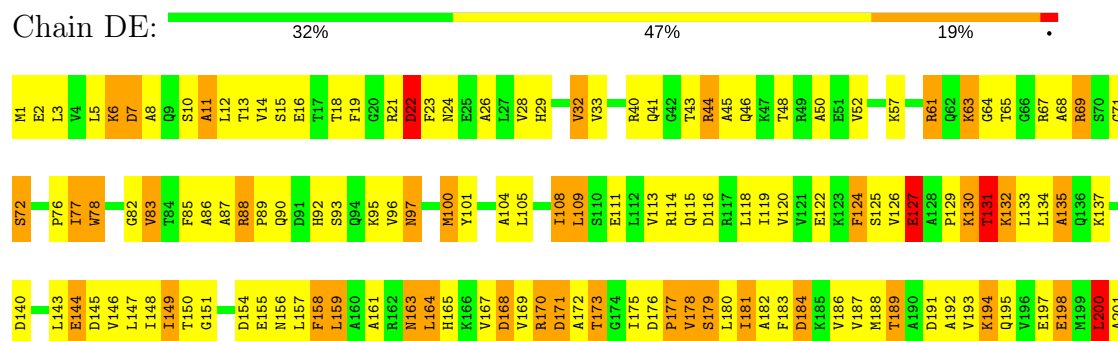
- Molecule 28: 50S ribosomal protein L3



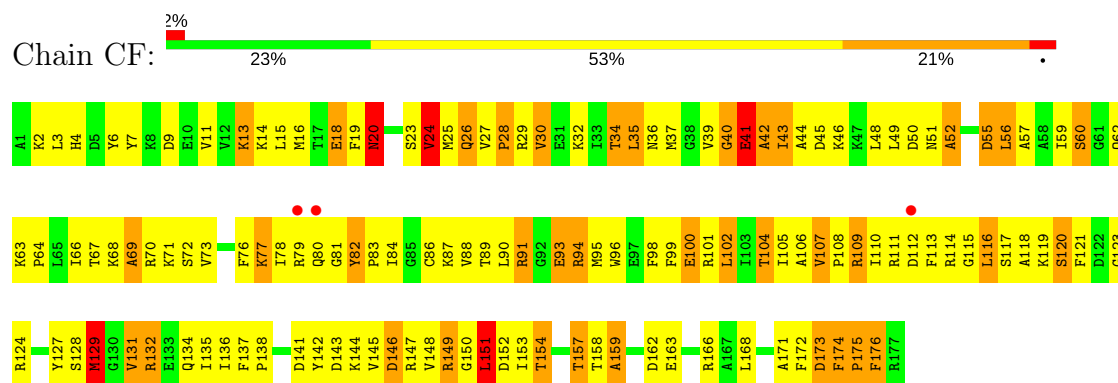
- Molecule 29: 50S ribosomal protein L4



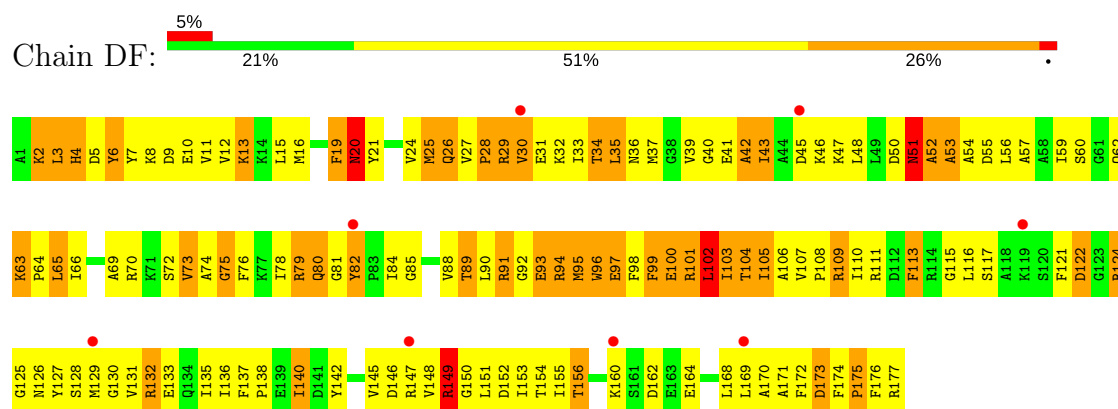
- Molecule 29: 50S ribosomal protein L4



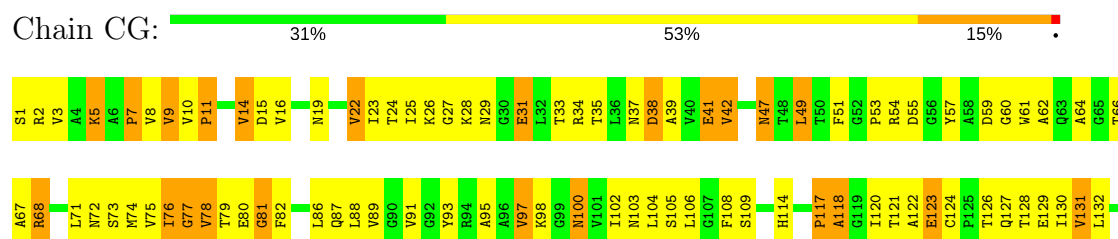
- Molecule 30: 50S ribosomal protein L5



- Molecule 30: 50S ribosomal protein L5



- Molecule 31: 50S ribosomal protein L6

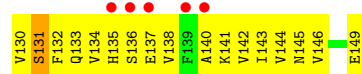
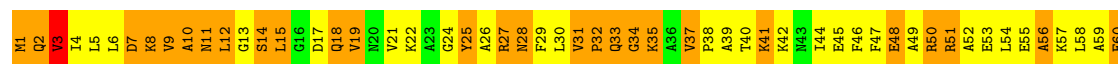




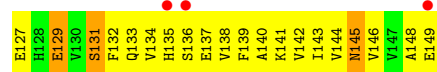
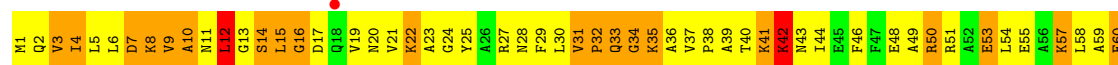
• Molecule 31: 50S ribosomal protein L6



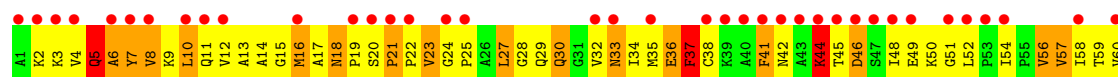
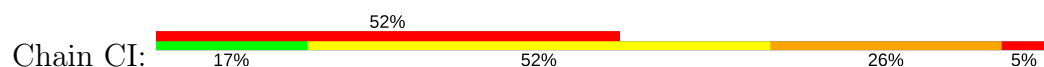
• Molecule 32: 50S ribosomal protein L9

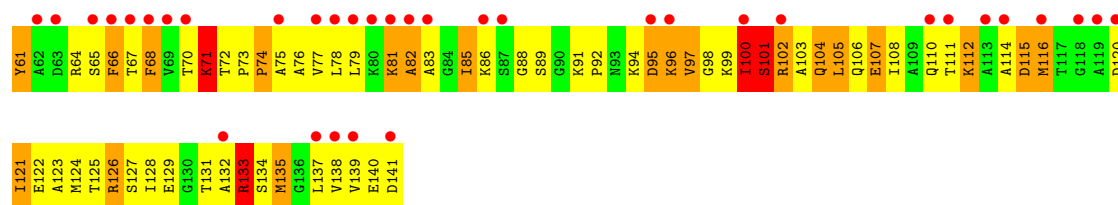


• Molecule 32: 50S ribosomal protein L9

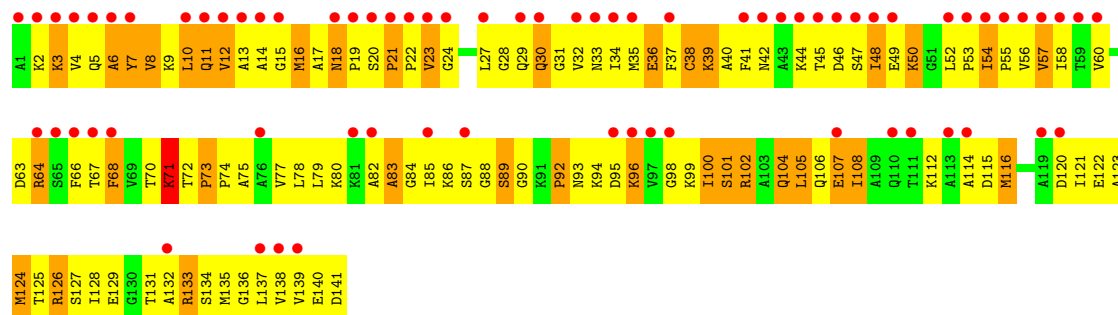
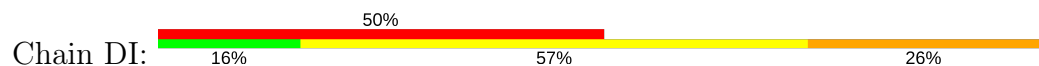


• Molecule 33: 50S ribosomal protein L11

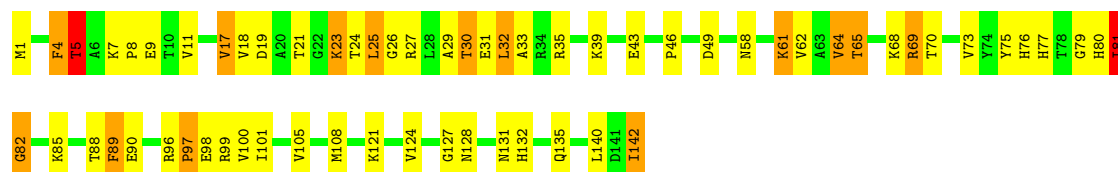




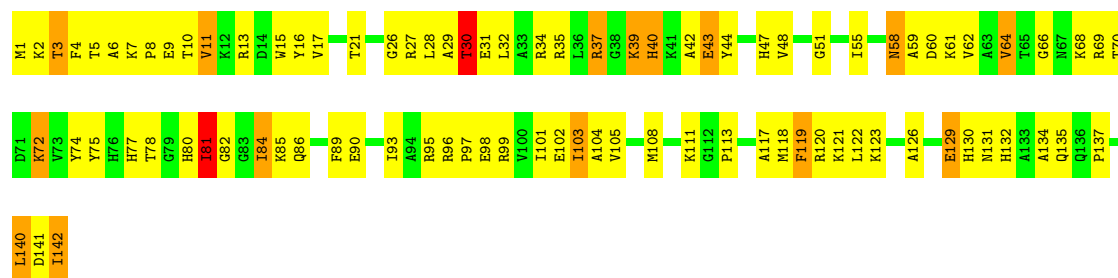
• Molecule 33: 50S ribosomal protein L11



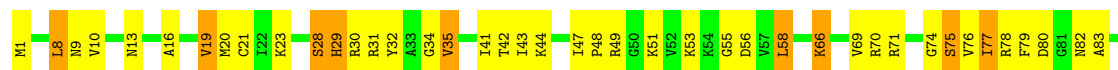
• Molecule 34: 50S ribosomal protein L13



• Molecule 34: 50S ribosomal protein L13



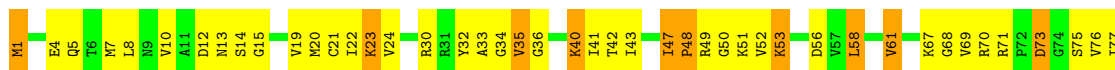
• Molecule 35: 50S ribosomal protein L14





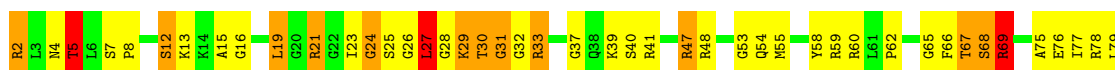
• Molecule 35: 50S ribosomal protein L14

Chain DK: 40% 43% 17%



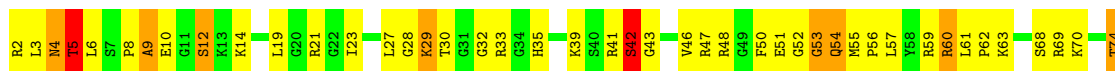
• Molecule 36: 50S ribosomal protein L15

Chain CL: 34% 46% 17%



• Molecule 36: 50S ribosomal protein L15

Chain DL: 2% 27% 55% 14%



• Molecule 37: 50S ribosomal protein L16

Chain CM: 42% 40% 16%

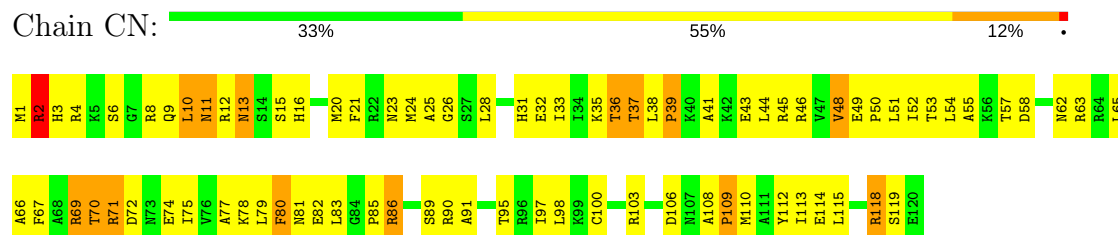


• Molecule 37: 50S ribosomal protein L16

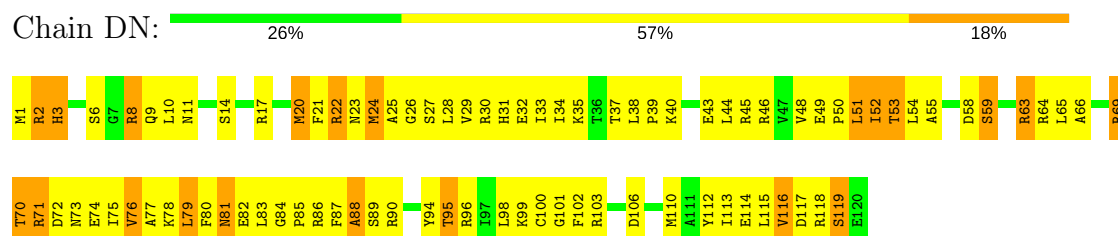
Chain DM: 29% 53% 16%



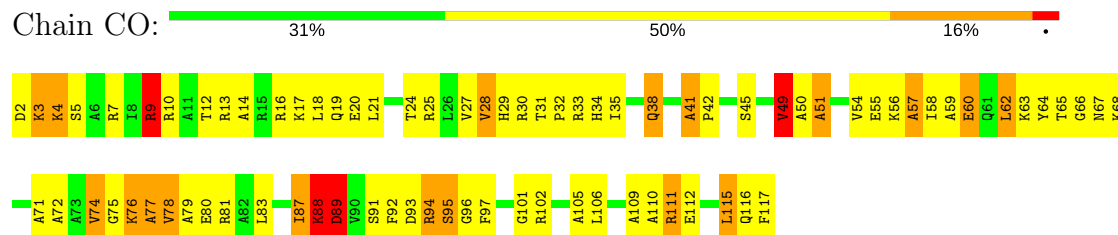
• Molecule 38: 50S ribosomal protein L17



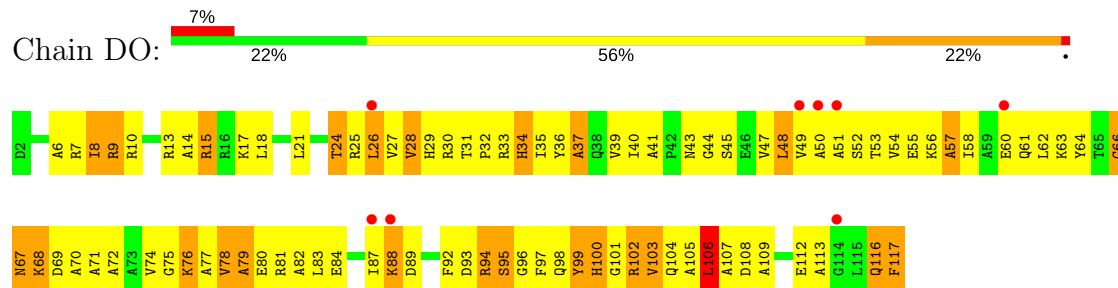
• Molecule 38: 50S ribosomal protein L17



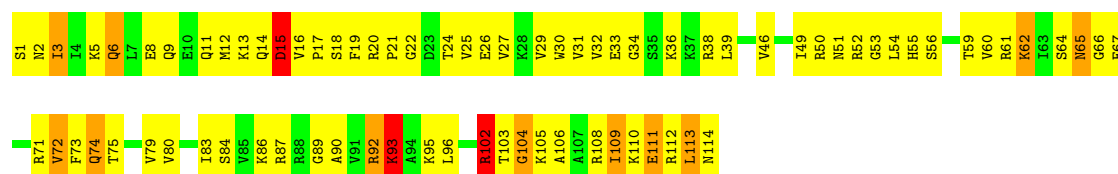
• Molecule 39: 50S ribosomal protein L18



• Molecule 39: 50S ribosomal protein L18

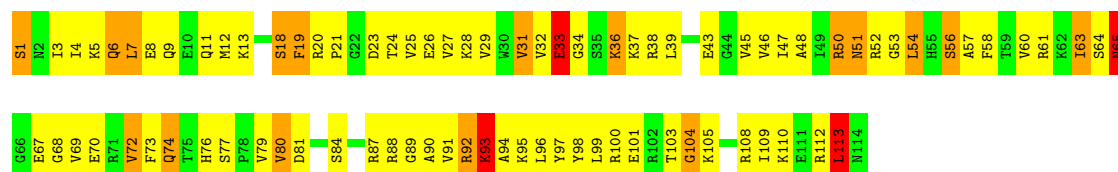


• Molecule 40: 50S ribosomal protein L19



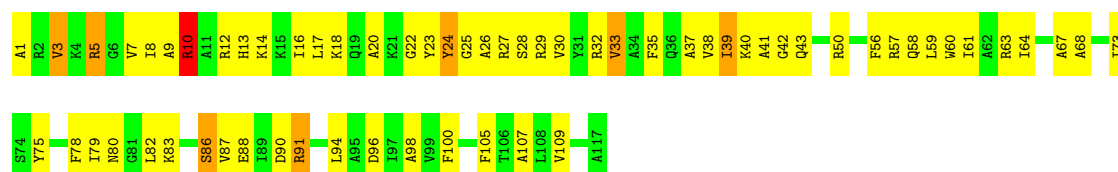
• Molecule 40: 50S ribosomal protein L19

Chain DP: 26% 55% 15%



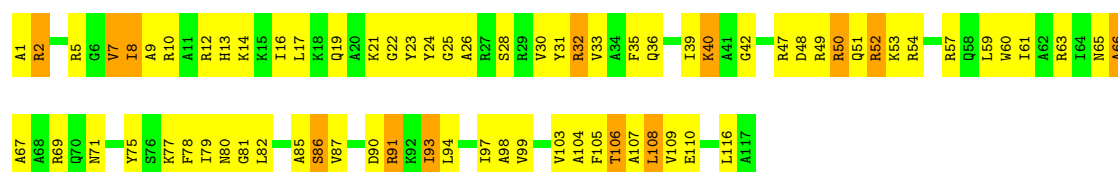
• Molecule 41: 50S ribosomal protein L20

Chain CQ: 46% 47% 6%



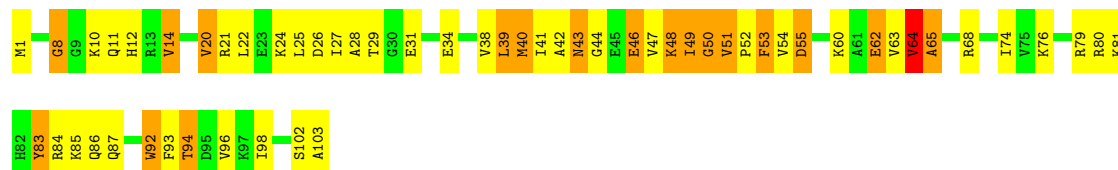
• Molecule 41: 50S ribosomal protein L20

Chain DQ: 38% 51% 11%



• Molecule 42: 50S ribosomal protein L21

Chain CR: 45% 37% 17%



• Molecule 42: 50S ribosomal protein L21

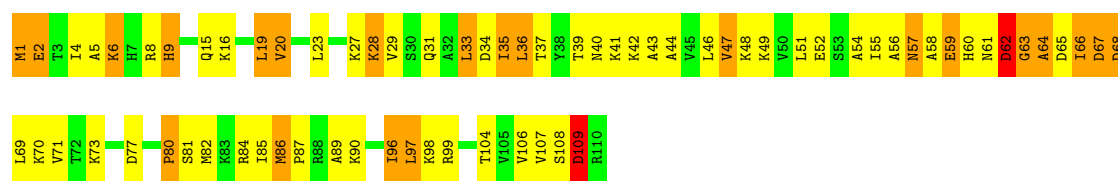
Chain DR: 29% 51% 18%



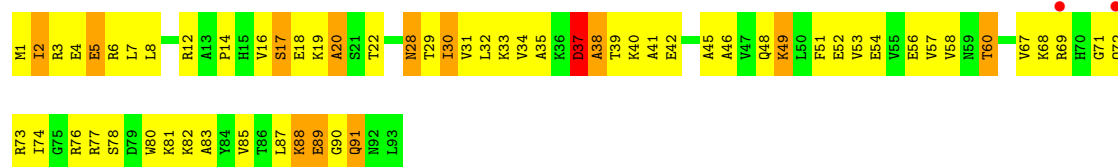
• Molecule 43: 50S ribosomal protein L22



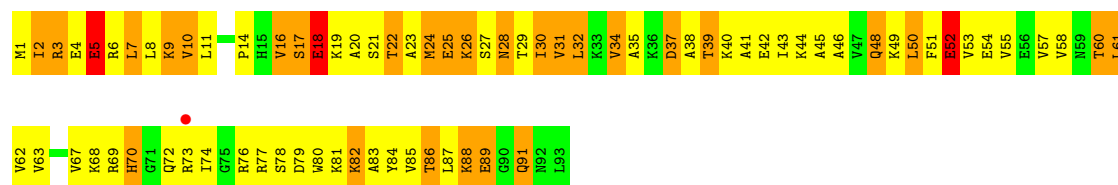
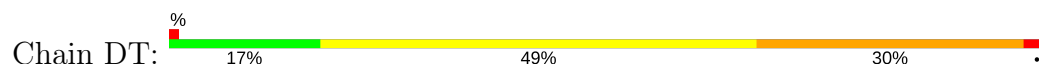
• Molecule 43: 50S ribosomal protein L22



• Molecule 44: 50S ribosomal protein L23

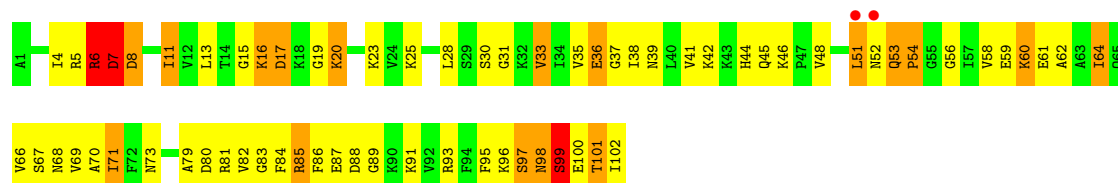


• Molecule 44: 50S ribosomal protein L23

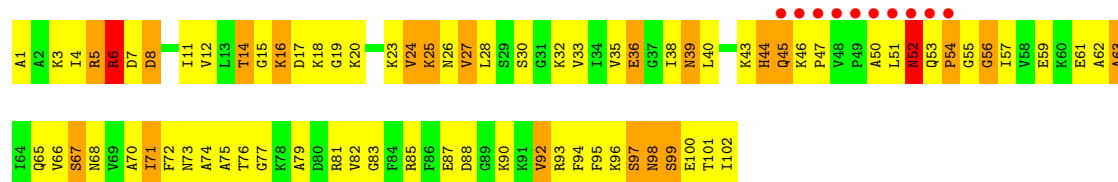


• Molecule 45: 50S ribosomal protein L24

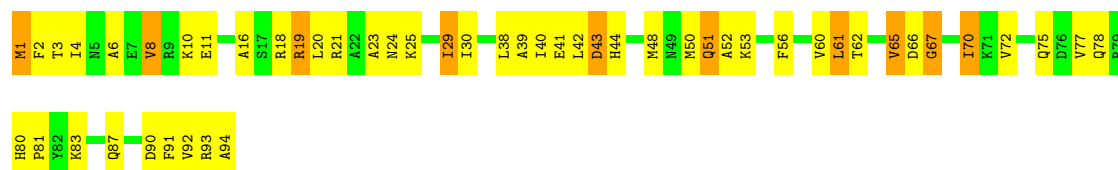




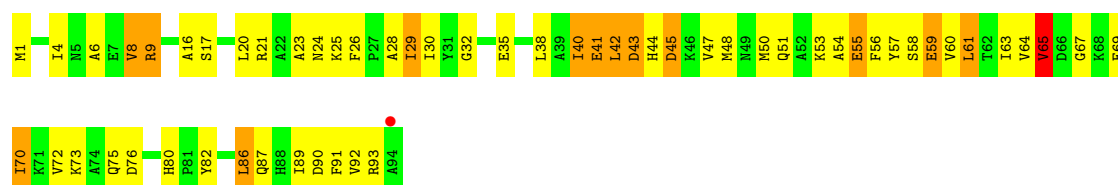
• Molecule 45: 50S ribosomal protein L24



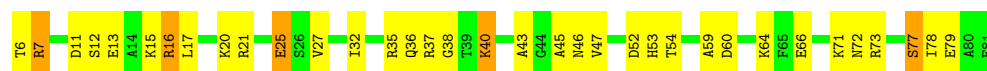
• Molecule 46: 50S ribosomal protein L25



• Molecule 46: 50S ribosomal protein L25



• Molecule 47: 50S ribosomal protein L27



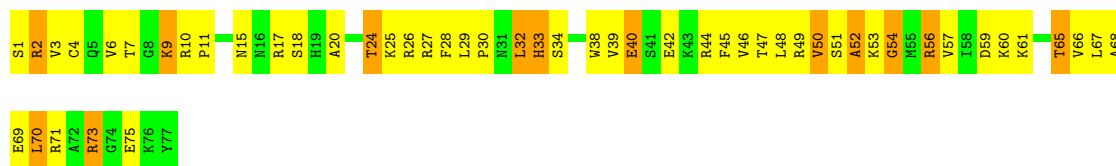
• Molecule 48: 50S ribosomal protein L28





- Molecule 48: 50S ribosomal protein L28

Chain DX: 32% 51% 17%



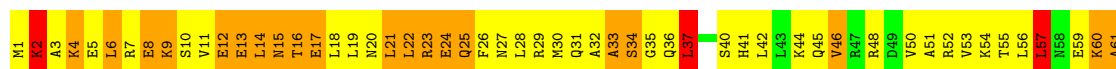
- Molecule 49: 50S ribosomal protein L29

Chain CY: 3% 25% 44% 27%



- Molecule 49: 50S ribosomal protein L29

Chain DY: 13% 51% 32% 5%



- Molecule 50: 50S ribosomal protein L30

Chain CZ: 45% 52%



- Molecule 50: 50S ribosomal protein L30

Chain DZ: 2% 40% 45% 14%

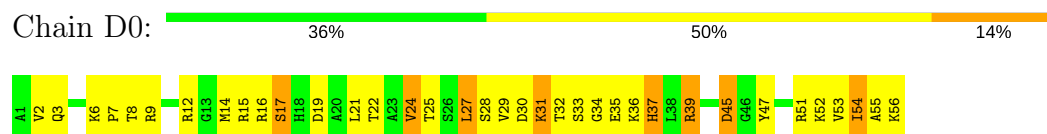


- Molecule 51: 50S ribosomal protein L32

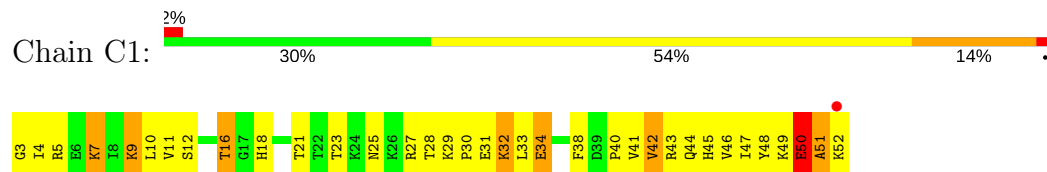
Chain C0: 48% 38% 14%



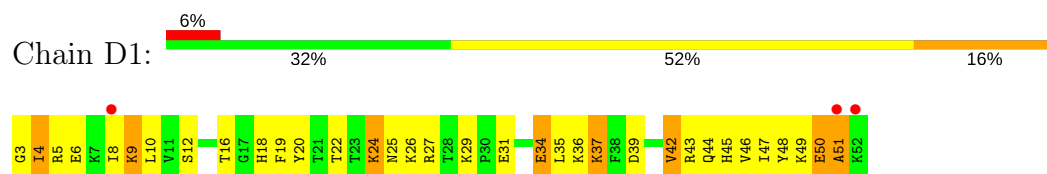
- Molecule 51: 50S ribosomal protein L32



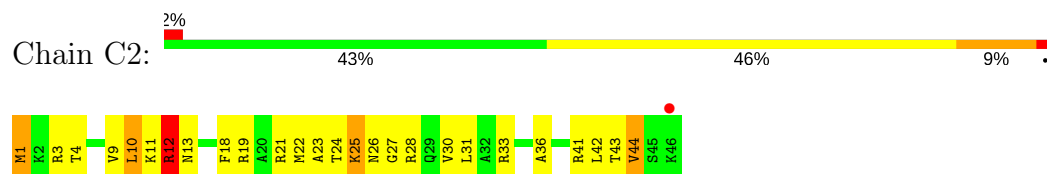
- Molecule 52: 50S ribosomal protein L33



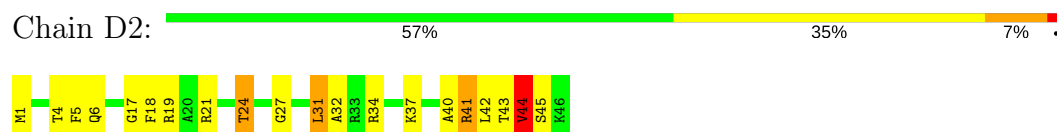
- Molecule 52: 50S ribosomal protein L33



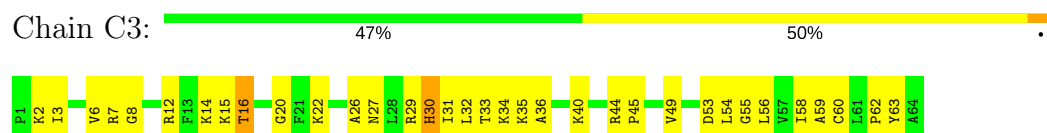
- Molecule 53: 50S ribosomal protein L34



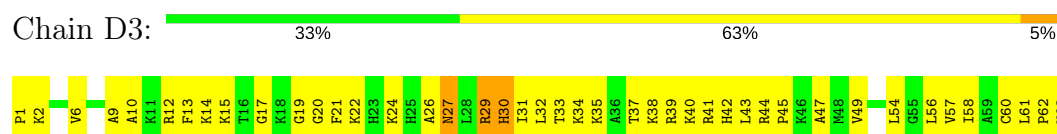
- Molecule 53: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L35



- Molecule 54: 50S ribosomal protein L35



- Molecule 55: 50S ribosomal protein L36

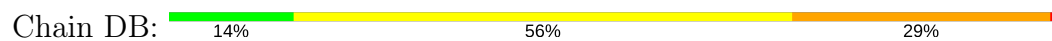




- Molecule 55: 50S ribosomal protein L36



- Molecule 56: 5S rRNA



- Molecule 57: 50S ribosomal protein L27



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	211.67Å 438.07Å 613.42Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 3.00 69.21 – 3.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.00-3.00) 83.5 (69.21-3.00)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.58 (at 3.01Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.202 , 0.260 0.195 , 0.251	Depositor DCC
R_{free} test set	19047 reflections (2.03%)	DCC
Wilson B-factor (Å ²)	44.7	Xtriage
Anisotropy	0.180	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 22.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	292354	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.44% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, 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	0.87	8/36944 (0.0%)	1.28	318/57632 (0.6%)
1	BA	0.86	8/36966 (0.0%)	1.30	335/57666 (0.6%)
2	AB	0.60	0/1736	0.79	0/2338
2	BB	0.54	0/1736	0.72	0/2338
3	AC	0.56	0/1652	0.72	0/2225
3	BC	0.51	0/1652	0.72	1/2225 (0.0%)
4	AD	0.59	0/1665	0.74	1/2227 (0.0%)
4	BD	0.65	0/1665	0.80	1/2227 (0.0%)
5	AE	0.62	0/1119	0.85	0/1504
5	BE	0.62	0/1119	0.85	0/1504
6	AF	0.65	0/836	0.82	1/1128 (0.1%)
6	BF	0.55	0/836	0.80	1/1128 (0.1%)
7	AG	0.50	0/1196	0.67	0/1602
7	BG	0.48	0/1196	0.67	0/1602
8	AH	0.60	0/989	0.77	0/1326
8	BH	0.58	0/989	0.74	0/1326
9	AI	0.48	0/1034	0.71	0/1375
9	BI	0.53	0/1034	0.75	0/1375
10	AJ	0.57	0/797	0.74	0/1077
10	BJ	0.52	0/797	0.76	1/1077 (0.1%)
11	AK	0.67	0/893	0.82	0/1205
11	BK	0.59	0/893	0.75	0/1205
12	AL	0.61	0/969	0.81	0/1300
12	BL	0.72	0/969	0.92	0/1300
13	AM	0.52	0/893	0.74	0/1193
13	BM	0.50	0/893	0.71	0/1193
14	AN	0.55	0/785	0.76	0/1043
14	BN	0.51	0/785	0.65	0/1043
15	AO	0.55	0/722	0.73	0/964
15	BO	0.53	0/722	0.73	0/964
16	AP	0.54	0/659	0.82	1/884 (0.1%)
16	BP	0.61	0/659	0.79	1/884 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.57	0/658	0.74	0/881
17	BQ	0.62	0/658	0.76	0/881
18	AR	0.61	0/463	0.69	0/621
18	BR	0.54	0/463	0.68	0/621
19	AS	0.48	0/653	0.73	0/877
19	BS	0.55	0/653	0.67	0/877
20	AT	0.54	0/671	0.69	0/888
20	BT	0.57	0/671	0.73	0/888
21	AU	0.93	0/431	0.96	0/570
21	BU	0.78	0/431	0.85	0/570
22	AV	0.76	1/1813 (0.1%)	1.22	14/2823 (0.5%)
22	BV	0.74	1/1813 (0.1%)	1.22	10/2823 (0.4%)
23	AX	0.86	0/363	1.11	0/564
23	BX	0.73	0/388	1.09	0/603
24	AY	0.65	0/1430	0.74	0/1924
25	CA	1.60	600/69659 (0.9%)	1.67	2062/108672 (1.9%)
25	DA	1.07	82/69633 (0.1%)	1.48	1284/108629 (1.2%)
26	CB	1.33	5/2847 (0.2%)	1.58	77/4440 (1.7%)
27	CC	0.80	0/2122	0.90	1/2852 (0.0%)
27	DC	0.68	1/2122 (0.0%)	0.86	1/2852 (0.0%)
28	CD	0.96	0/1586	0.92	1/2134 (0.0%)
28	DD	0.70	0/1586	0.87	2/2134 (0.1%)
29	CE	0.91	0/1571	0.89	1/2113 (0.0%)
29	DE	0.67	0/1571	0.81	0/2113
30	CF	0.64	0/1435	0.74	0/1926
30	DF	0.51	0/1435	0.67	0/1926
31	CG	0.75	0/1343	0.85	1/1816 (0.1%)
31	DG	0.51	0/1343	0.69	0/1816
32	CH	0.68	1/1121 (0.1%)	0.77	0/1515
32	DH	0.66	1/1121 (0.1%)	0.80	1/1515 (0.1%)
33	CI	0.72	0/1046	0.74	0/1410
33	DI	0.67	0/1046	0.72	0/1410
34	CJ	1.01	0/1152	0.84	1/1551 (0.1%)
34	DJ	0.77	0/1152	0.82	0/1551
35	CK	0.91	3/948 (0.3%)	0.94	1/1268 (0.1%)
35	DK	0.68	0/948	0.84	0/1268
36	CL	0.94	0/1054	1.01	0/1403
36	DL	0.65	0/1054	0.85	0/1403
37	CM	0.94	0/1093	0.96	0/1460
37	DM	0.64	0/1093	0.80	0/1460
38	CN	0.91	0/974	0.96	1/1301 (0.1%)
38	DN	0.67	0/974	0.82	0/1301
39	CO	0.76	0/902	0.87	1/1209 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	DO	0.50	0/902	0.66	0/1209
40	CP	0.89	0/929	0.88	1/1242 (0.1%)
40	DP	0.71	0/929	0.82	0/1242
41	CQ	1.14	0/960	0.96	1/1278 (0.1%)
41	DQ	0.80	0/960	0.79	0/1278
42	CR	1.01	1/829 (0.1%)	0.98	0/1107
42	DR	0.79	0/829	0.90	1/1107 (0.1%)
43	CS	1.08	1/864 (0.1%)	0.97	1/1156 (0.1%)
43	DS	0.71	0/864	0.89	1/1156 (0.1%)
44	CT	0.82	0/745	0.86	0/994
44	DT	0.59	0/745	0.74	0/994
45	CU	0.91	0/788	0.90	0/1051
45	DU	0.66	0/788	0.76	0/1051
46	CV	0.79	0/766	0.81	0/1025
46	DV	0.53	0/766	0.69	0/1025
47	CW	1.02	0/582	0.97	0/769
48	CX	0.78	0/635	0.84	0/848
48	DX	0.61	0/635	0.77	0/848
49	CY	0.76	0/510	0.96	1/677 (0.1%)
49	DY	0.56	0/510	0.77	0/677
50	CZ	1.04	0/453	0.94	0/605
50	DZ	0.58	0/453	0.78	0/605
51	C0	0.95	0/450	0.98	2/599 (0.3%)
51	D0	0.71	0/450	0.89	1/599 (0.2%)
52	C1	0.74	0/417	0.76	0/554
52	D1	0.50	0/417	0.66	0/554
53	C2	1.03	0/380	0.99	2/498 (0.4%)
53	D2	0.70	0/380	0.84	0/498
54	C3	0.94	0/513	0.85	0/676
54	D3	0.60	0/513	0.78	1/676 (0.1%)
55	C4	0.92	0/303	0.99	0/397
55	D4	0.68	0/303	0.76	0/397
56	DB	0.75	0/2828	1.23	18/4410 (0.4%)
57	DW	0.60	0/571	0.72	0/755
All	All	1.08	713/315257 (0.2%)	1.34	4150/471496 (0.9%)

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
4	AD	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
4	BD	0	1
5	AE	0	1
5	BE	0	2
6	BF	0	1
9	AI	0	1
11	AK	0	1
11	BK	0	2
12	BL	0	2
13	AM	0	1
14	AN	0	1
20	BT	0	1
21	AU	0	2
21	BU	0	1
27	CC	0	1
27	DC	0	1
28	CD	0	2
28	DD	0	1
32	DH	0	2
33	CI	0	1
34	DJ	0	1
39	DO	0	1
42	CR	0	1
45	CU	0	1
50	CZ	0	1
All	All	0	31

All (713) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	1142	A	N9-C4	-18.22	1.26	1.37
25	CA	984	A	N9-C4	-13.29	1.29	1.37
25	DA	984	A	N9-C4	-10.51	1.31	1.37
25	CA	984	A	C5-C6	-10.44	1.31	1.41
25	CA	528	A	N7-C5	-10.29	1.33	1.39
25	CA	2250	G	N9-C4	-10.25	1.29	1.38
22	AV	1	G	OP3-P	-9.85	1.49	1.61
25	CA	672	C	N1-C6	-9.61	1.31	1.37
25	DA	528	A	N9-C4	-9.48	1.32	1.37
25	CA	1452	G	N9-C4	-9.46	1.30	1.38
22	BV	1	G	OP3-P	-9.45	1.49	1.61
25	DA	783	A	N9-C4	-9.41	1.32	1.37
25	CA	783	A	N9-C4	-8.99	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	1999	C	N1-C6	-8.99	1.31	1.37
25	CA	1322	A	N9-C4	-8.76	1.32	1.37
25	CA	1779	U	N3-C4	-8.62	1.30	1.38
25	CA	814	C	N1-C6	-8.54	1.32	1.37
25	CA	974	G	N9-C8	8.52	1.43	1.37
25	CA	2711	A	N9-C4	-8.49	1.32	1.37
25	CA	752	A	N7-C5	-8.46	1.34	1.39
25	CA	1779	U	C2-N3	-8.38	1.31	1.37
25	CA	473	G	C6-N1	-8.36	1.33	1.39
25	CA	1452	G	N3-C4	-8.34	1.29	1.35
25	CA	1677	A	N9-C4	-8.23	1.32	1.37
25	CA	1452	G	C5-C6	-8.20	1.34	1.42
25	CA	1322	A	N3-C4	-8.19	1.29	1.34
25	CA	2286	G	N9-C4	-8.18	1.31	1.38
25	CA	668	A	N7-C5	-8.09	1.34	1.39
25	CA	2241	A	N9-C4	-8.05	1.33	1.37
25	CA	64	A	N3-C4	-8.04	1.30	1.34
25	CA	690	G	C5-C4	-7.98	1.32	1.38
25	CA	2071	A	N9-C4	-7.94	1.33	1.37
25	CA	1646	C	N1-C6	-7.93	1.32	1.37
25	CA	1307	A	N3-C4	-7.93	1.30	1.34
25	CA	2725	A	N9-C4	-7.89	1.33	1.37
25	CA	16	C	N1-C6	-7.83	1.32	1.37
25	CA	371	A	N9-C4	-7.83	1.33	1.37
25	CA	940	G	N7-C5	-7.82	1.34	1.39
25	CA	752	A	C5-C6	-7.81	1.34	1.41
25	CA	668	A	N9-C4	-7.76	1.33	1.37
25	DA	735	A	N3-C4	-7.75	1.30	1.34
25	DA	1142	A	N9-C4	-7.73	1.33	1.37
25	CA	690	G	N9-C4	-7.73	1.31	1.38
32	DH	149	GLU	CD-OE2	7.69	1.34	1.25
25	CA	1936	A	N9-C4	-7.68	1.33	1.37
25	CA	1999	C	N1-C2	-7.68	1.32	1.40
25	CA	2270	A	N3-C4	-7.63	1.30	1.34
25	CA	513	A	N7-C5	-7.62	1.34	1.39
25	CA	2426	A	N7-C5	-7.62	1.34	1.39
25	CA	221	A	N9-C4	-7.53	1.33	1.37
25	CA	21	A	N9-C4	-7.46	1.33	1.37
25	CA	1242	U	N1-C2	-7.40	1.31	1.38
25	CA	206	U	C2-N3	-7.39	1.32	1.37
25	DA	1936	A	N9-C4	-7.31	1.33	1.37
25	CA	1294	U	C2-N3	-7.30	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	856	G	N3-C4	-7.29	1.30	1.35
25	CA	2267	A	N3-C4	-7.29	1.30	1.34
25	DA	526	A	N3-C4	-7.29	1.30	1.34
25	CA	1226	A	C5-C4	-7.28	1.33	1.38
25	CA	492	A	N3-C4	-7.26	1.30	1.34
25	CA	2616	C	N1-C6	-7.25	1.32	1.37
25	CA	819	A	N9-C4	-7.25	1.33	1.37
25	CA	1936	A	N3-C4	-7.25	1.30	1.34
32	CH	149	GLU	CD-OE2	7.24	1.33	1.25
25	CA	204	A	C6-N1	-7.21	1.30	1.35
25	CA	241	A	N9-C4	-7.21	1.33	1.37
25	CA	1657	U	N1-C2	-7.20	1.32	1.38
25	CA	974	G	N9-C4	-7.19	1.32	1.38
25	CA	1231	U	N1-C2	-7.16	1.32	1.38
25	CA	2388	A	C5-C4	-7.15	1.33	1.38
25	CA	1142	A	N3-C4	-7.13	1.30	1.34
25	CA	439	A	N9-C4	-7.05	1.33	1.37
25	CA	813	U	N1-C2	-7.03	1.32	1.38
25	CA	1029	A	N7-C5	-7.03	1.35	1.39
25	DA	480	A	N9-C4	-7.00	1.33	1.37
25	CA	1393	A	N3-C4	-7.00	1.30	1.34
25	CA	614	A	N9-C4	-7.00	1.33	1.37
25	DA	1247	A	N9-C4	-6.94	1.33	1.37
25	CA	1396	U	C2-N3	-6.91	1.32	1.37
25	CA	802	A	N7-C5	-6.91	1.35	1.39
25	CA	478	A	N9-C4	-6.90	1.33	1.37
25	CA	832	U	N1-C2	-6.90	1.32	1.38
25	CA	668	A	N3-C4	-6.89	1.30	1.34
25	CA	960	A	N3-C4	-6.89	1.30	1.34
25	CA	1311	G	N9-C4	-6.88	1.32	1.38
25	CA	1270	C	N1-C6	-6.88	1.33	1.37
25	CA	2017	U	C2-N3	-6.87	1.32	1.37
25	DA	1971	U	N3-C4	6.87	1.44	1.38
25	CA	218	A	N9-C4	-6.87	1.33	1.37
25	CA	1278	C	N1-C6	-6.86	1.33	1.37
25	CA	964	C	N1-C6	-6.80	1.33	1.37
25	CA	832	U	C2-N3	-6.80	1.32	1.37
25	CA	2009	A	C6-N1	-6.80	1.30	1.35
25	CA	1242	U	C2-O2	-6.79	1.16	1.22
25	CA	1255	U	C4-C5	-6.78	1.37	1.43
25	CA	477	A	N3-C4	-6.78	1.30	1.34
25	DA	782	A	N9-C4	-6.77	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	204	A	N3-C4	-6.77	1.30	1.34
25	CA	800	A	N7-C5	-6.76	1.35	1.39
25	CA	323	C	N1-C6	-6.75	1.33	1.37
25	CA	580	U	N1-C2	-6.74	1.32	1.38
25	CA	1572	A	N3-C4	-6.73	1.30	1.34
25	CA	1833	C	N1-C6	-6.69	1.33	1.37
25	CA	536	G	C5-C4	-6.68	1.33	1.38
25	CA	786	C	N1-C6	-6.68	1.33	1.37
25	CA	2679	A	N9-C4	-6.66	1.33	1.37
25	CA	16	C	N3-C4	-6.65	1.29	1.33
25	CA	1278	C	N1-C2	-6.64	1.33	1.40
25	CA	974	G	C5-C6	-6.64	1.35	1.42
25	CA	1269	A	N3-C4	-6.63	1.30	1.34
25	CA	829	A	N9-C4	-6.63	1.33	1.37
25	CA	856	G	C5-C4	-6.61	1.33	1.38
25	CA	1674	G	N7-C5	-6.60	1.35	1.39
25	DA	822	G	N9-C4	-6.60	1.32	1.38
25	CA	2240	U	C2-N3	-6.56	1.33	1.37
25	CA	1354	A	N9-C4	-6.56	1.33	1.37
25	CA	2725	A	N3-C4	-6.55	1.30	1.34
25	CA	1031	G	C5-C4	-6.55	1.33	1.38
25	CA	478	A	N3-C4	-6.54	1.30	1.34
25	DA	574	A	N9-C4	-6.54	1.33	1.37
25	CA	1638	C	N1-C6	-6.53	1.33	1.37
25	CA	2721	A	N7-C5	-6.53	1.35	1.39
25	CA	2625	G	N7-C5	-6.53	1.35	1.39
25	DA	1946	U	C2-N3	-6.52	1.33	1.37
25	CA	2732	G	N3-C4	-6.50	1.30	1.35
1	AA	1413	A	N9-C4	-6.50	1.33	1.37
25	CA	526	A	N3-C4	-6.50	1.30	1.34
25	CA	1901	A	N9-C4	-6.49	1.33	1.37
25	CA	2068	U	N1-C2	-6.48	1.32	1.38
25	CA	2595	G	C6-N1	-6.48	1.35	1.39
25	CA	533	G	N7-C5	-6.47	1.35	1.39
25	CA	1133	A	N3-C4	-6.47	1.30	1.34
25	CA	735	A	N9-C4	-6.45	1.33	1.37
25	CA	2388	A	N3-C4	-6.43	1.30	1.34
25	CA	744	U	C2-N3	-6.42	1.33	1.37
25	CA	585	G	N7-C5	-6.41	1.35	1.39
25	CA	2067	G	C5-C6	-6.40	1.35	1.42
25	DA	1302	A	N7-C5	-6.38	1.35	1.39
1	AA	1499	A	N9-C4	-6.37	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	1246	A	N9-C4	-6.37	1.34	1.37
25	CA	2059	A	C5-C6	-6.36	1.35	1.41
25	DA	735	A	N9-C4	-6.36	1.34	1.37
25	CA	824	U	N1-C2	-6.36	1.32	1.38
25	DA	2069	G	N9-C4	-6.35	1.32	1.38
25	CA	526	A	C6-N1	-6.35	1.31	1.35
25	CA	1667	G	C6-N1	-6.34	1.35	1.39
25	CA	2498	C	N3-C4	-6.34	1.29	1.33
25	CA	2388	A	N9-C4	-6.33	1.34	1.37
25	CA	657	U	C2-N3	-6.33	1.33	1.37
25	CA	204	A	C5-C6	-6.32	1.35	1.41
25	CA	1395	A	N9-C4	-6.32	1.34	1.37
25	CA	2749	A	N9-C4	-6.31	1.34	1.37
25	DA	454	A	N9-C4	-6.31	1.34	1.37
25	CA	235	U	C2-N3	-6.31	1.33	1.37
25	CA	2838	G	N9-C8	-6.29	1.33	1.37
25	CA	757	G	N9-C4	-6.28	1.32	1.38
25	CA	690	G	N9-C8	-6.28	1.33	1.37
25	CA	1008	A	N3-C4	-6.27	1.31	1.34
25	CA	2376	A	N3-C4	-6.27	1.31	1.34
25	CA	817	C	N1-C2	-6.26	1.33	1.40
25	CA	1255	U	C4-O4	-6.26	1.18	1.23
25	CA	2725	A	P-O5'	-6.25	1.53	1.59
25	DA	2699	C	N1-C6	-6.24	1.33	1.37
25	CA	13	A	N3-C4	-6.24	1.31	1.34
25	CA	1638	C	N1-C2	-6.24	1.33	1.40
25	CA	1640	A	N7-C5	-6.23	1.35	1.39
25	CA	1687	G	C6-N1	-6.23	1.35	1.39
25	CA	14	A	N3-C4	-6.22	1.31	1.34
25	CA	922	C	N1-C6	-6.22	1.33	1.37
25	CA	802	A	N3-C4	-6.22	1.31	1.34
25	DA	825	A	N9-C4	-6.21	1.34	1.37
25	DA	783	A	C5-C6	-6.21	1.35	1.41
25	CA	2364	C	N1-C6	-6.21	1.33	1.37
25	CA	2689	U	C2-N3	-6.21	1.33	1.37
25	CA	1013	C	N1-C6	-6.20	1.33	1.37
25	CA	1282	U	N1-C2	-6.20	1.32	1.38
25	CA	1528	A	N3-C4	-6.20	1.31	1.34
25	CA	523	C	N1-C6	-6.19	1.33	1.37
25	CA	1133	A	N9-C4	-6.19	1.34	1.37
25	CA	1677	A	N3-C4	-6.18	1.31	1.34
25	DA	1452	G	N9-C4	-6.18	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	568	U	C2-N3	-6.18	1.33	1.37
25	CA	2250	G	N3-C4	-6.17	1.31	1.35
25	CA	2377	A	N9-C4	-6.17	1.34	1.37
25	CA	575	A	C6-N1	-6.17	1.31	1.35
25	CA	575	A	N7-C5	-6.16	1.35	1.39
25	CA	752	A	N3-C4	-6.16	1.31	1.34
25	CA	1960	A	N9-C4	-6.16	1.34	1.37
25	CA	975	A	N3-C4	-6.15	1.31	1.34
25	CA	2820	A	N3-C4	6.14	1.38	1.34
25	CA	423	A	N9-C4	-6.14	1.34	1.37
25	CA	823	C	N1-C6	-6.14	1.33	1.37
25	CA	1126	A	N7-C5	-6.13	1.35	1.39
25	CA	1977	A	N9-C4	-6.13	1.34	1.37
25	CA	745	G	N1-C2	-6.12	1.32	1.37
25	CA	2686	G	N7-C5	-6.12	1.35	1.39
25	CA	2620	C	N3-C4	-6.12	1.29	1.33
25	CA	693	A	N3-C4	-6.12	1.31	1.34
25	CA	943	A	N7-C5	-6.10	1.35	1.39
25	CA	1951	U	N1-C2	-6.10	1.33	1.38
25	CA	2053	G	N7-C5	-6.10	1.35	1.39
25	CA	528	A	N9-C4	-6.09	1.34	1.37
25	CA	663	G	N9-C8	-6.09	1.33	1.37
25	CA	2286	G	N3-C4	-6.09	1.31	1.35
25	DA	1779	U	C2-N3	-6.09	1.33	1.37
25	DA	483	A	N9-C4	-6.08	1.34	1.37
25	DA	1787	A	N9-C4	-6.08	1.34	1.37
25	CA	470	A	N9-C4	-6.07	1.34	1.37
25	CA	2576	G	N3-C4	-6.06	1.31	1.35
25	CA	564	C	N3-C4	-6.06	1.29	1.33
25	CA	394	C	N1-C6	-6.06	1.33	1.37
25	CA	910	A	C6-N1	-6.05	1.31	1.35
25	CA	2389	G	N9-C4	-6.04	1.33	1.38
25	CA	2626	C	N1-C6	-6.04	1.33	1.37
25	CA	2551	C	N1-C6	-6.03	1.33	1.37
1	AA	1346	A	N9-C4	-6.02	1.34	1.37
25	CA	1608	A	N9-C4	-6.02	1.34	1.37
25	CA	814	C	N3-C4	-6.02	1.29	1.33
25	DA	2014	A	N7-C5	-6.02	1.35	1.39
25	CA	819	A	N3-C4	-6.01	1.31	1.34
25	CA	2542	A	N9-C4	-6.01	1.34	1.37
25	CA	1345	C	N1-C6	-6.00	1.33	1.37
25	CA	752	A	N9-C4	-5.99	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	2792	A	N7-C5	-5.99	1.35	1.39
25	CA	2496	C	N1-C6	-5.98	1.33	1.37
43	CS	73	LYS	CD-CE	5.98	1.66	1.51
25	CA	667	U	C2-N3	-5.98	1.33	1.37
25	CA	2348	U	C2-N3	-5.98	1.33	1.37
25	CA	1011	G	N3-C4	-5.98	1.31	1.35
25	CA	598	U	N1-C2	-5.97	1.33	1.38
25	CA	1143	A	N7-C5	-5.97	1.35	1.39
25	CA	706	A	N3-C4	-5.96	1.31	1.34
1	BA	283	U	C2-N3	5.96	1.42	1.37
25	CA	1028	A	N3-C4	-5.96	1.31	1.34
25	CA	1769	U	N1-C2	-5.95	1.33	1.38
25	DA	783	A	N7-C5	-5.95	1.35	1.39
25	CA	1791	A	N3-C4	-5.94	1.31	1.34
25	CA	384	A	N9-C4	-5.94	1.34	1.37
25	DA	1387	A	N9-C4	-5.94	1.34	1.37
25	CA	451	U	C2-N3	-5.94	1.33	1.37
25	DA	1802	A	N3-C4	-5.94	1.31	1.34
25	DA	2821	A	N3-C4	-5.93	1.31	1.34
25	CA	461	C	N3-C4	-5.93	1.29	1.33
25	CA	474	G	C5-C4	-5.93	1.34	1.38
25	CA	525	U	N1-C2	-5.93	1.33	1.38
1	BA	816	A	N9-C4	-5.93	1.34	1.37
25	CA	2250	G	C5-C6	-5.92	1.36	1.42
25	CA	2270	A	N9-C4	-5.92	1.34	1.37
25	DA	2049	G	N1-C2	-5.92	1.33	1.37
25	DA	2821	A	N9-C4	-5.91	1.34	1.37
25	DA	753	A	N9-C4	-5.91	1.34	1.37
25	CA	2083	G	N9-C4	-5.91	1.33	1.38
25	CA	2005	A	N9-C4	-5.91	1.34	1.37
25	CA	821	A	N9-C4	-5.90	1.34	1.37
25	CA	977	G	N9-C8	-5.90	1.33	1.37
25	CA	2061	G	N7-C5	-5.90	1.35	1.39
25	CA	2004	G	C6-N1	-5.90	1.35	1.39
25	CA	1353	A	C6-N1	-5.89	1.31	1.35
25	CA	2002	G	C5-C4	-5.89	1.34	1.38
25	CA	984	A	N3-C4	-5.89	1.31	1.34
25	CA	674	G	N9-C8	-5.88	1.33	1.37
25	CA	768	G	C5-C4	-5.87	1.34	1.38
25	CA	2515	C	N1-C6	-5.87	1.33	1.37
25	CA	964	C	N3-C4	-5.86	1.29	1.33
25	CA	2511	U	N1-C2	-5.86	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	17	G	N9-C8	-5.85	1.33	1.37
25	CA	2418	A	N7-C5	-5.85	1.35	1.39
25	CA	683	U	N1-C2	-5.85	1.33	1.38
25	CA	1993	U	C2-N3	-5.85	1.33	1.37
25	DA	1192	G	N9-C8	-5.85	1.33	1.37
25	CA	120	U	C2-N3	-5.84	1.33	1.37
25	CA	2389	G	N9-C8	-5.84	1.33	1.37
25	DA	794	A	N9-C4	-5.84	1.34	1.37
25	CA	1251	C	N1-C6	-5.84	1.33	1.37
25	CA	2275	C	N3-C4	-5.84	1.29	1.33
25	CA	2259	U	N1-C6	-5.83	1.32	1.38
25	CA	2562	U	C2-N3	-5.83	1.33	1.37
25	CA	1994	C	N1-C6	-5.82	1.33	1.37
25	CA	2898	U	C2-N3	-5.82	1.33	1.37
25	CA	754	U	N3-C4	-5.82	1.33	1.38
25	DA	13	A	N3-C4	-5.81	1.31	1.34
25	DA	2047	C	N1-C6	-5.81	1.33	1.37
25	DA	693	A	N7-C5	-5.81	1.35	1.39
25	CA	1602	U	C2-N3	-5.80	1.33	1.37
25	CA	1309	G	N1-C2	-5.80	1.33	1.37
25	CA	1002	G	N1-C2	-5.79	1.33	1.37
25	CA	1046	A	N7-C5	-5.79	1.35	1.39
25	CA	2067	G	C5-C4	-5.79	1.34	1.38
25	CA	527	C	N1-C6	-5.79	1.33	1.37
25	CA	2358	A	N9-C4	-5.79	1.34	1.37
25	CA	513	A	C5-C6	-5.78	1.35	1.41
25	CA	2510	C	C2-N3	-5.78	1.31	1.35
25	CA	2691	C	N1-C6	-5.78	1.33	1.37
25	CA	1971	U	N3-C4	5.78	1.43	1.38
25	CA	1282	U	C2-N3	-5.78	1.33	1.37
25	CA	2051	A	N3-C4	-5.78	1.31	1.34
25	CA	2615	U	C2-N3	-5.78	1.33	1.37
25	CA	533	G	N9-C8	-5.77	1.33	1.37
25	CA	346	A	N3-C4	-5.77	1.31	1.34
25	CA	2067	G	N7-C5	-5.76	1.35	1.39
25	CA	993	G	C6-N1	-5.76	1.35	1.39
25	CA	1311	G	N1-C2	5.76	1.42	1.37
1	BA	397	A	N3-C4	-5.75	1.31	1.34
25	CA	1452	G	N7-C5	-5.75	1.35	1.39
25	CA	2614	A	N3-C4	-5.74	1.31	1.34
25	DA	753	A	N3-C4	-5.73	1.31	1.34
25	CA	970	U	N1-C2	-5.73	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	781	A	N3-C4	-5.73	1.31	1.34
25	DA	529	A	N9-C4	-5.73	1.34	1.37
25	CA	528	A	C5-C6	-5.72	1.35	1.41
25	CA	946	C	C4-N4	-5.72	1.28	1.33
25	CA	2894	G	N9-C8	-5.72	1.33	1.37
25	CA	1290	C	N1-C6	-5.72	1.33	1.37
1	BA	1514	G	C5-C4	-5.71	1.34	1.38
25	CA	443	A	N9-C4	-5.71	1.34	1.37
25	CA	1528	A	N9-C4	-5.71	1.34	1.37
25	CA	1254	A	N3-C4	-5.71	1.31	1.34
25	CA	1393	A	N9-C4	-5.71	1.34	1.37
25	CA	999	U	N1-C2	-5.71	1.33	1.38
25	CA	1245	G	C6-N1	-5.71	1.35	1.39
25	CA	2567	G	C5-C4	-5.70	1.34	1.38
25	CA	516	C	N3-C4	-5.70	1.29	1.33
25	CA	1218	G	N7-C5	-5.70	1.35	1.39
25	CA	589	U	C2-N3	-5.69	1.33	1.37
25	DA	2066	C	N1-C6	-5.69	1.33	1.37
25	CA	111	A	N9-C4	-5.69	1.34	1.37
25	CA	832	U	C2-O2	-5.69	1.17	1.22
25	CA	1123	C	N3-C4	-5.69	1.29	1.33
25	CA	2749	A	N3-C4	-5.69	1.31	1.34
25	DA	974	G	N9-C8	5.68	1.41	1.37
25	DA	2392	A	N9-C4	-5.68	1.34	1.37
25	DA	2811	G	N9-C4	-5.68	1.33	1.38
35	CK	92	GLU	CG-CD	5.68	1.60	1.51
25	CA	572	A	C6-N1	-5.67	1.31	1.35
25	CA	14	A	N9-C4	-5.67	1.34	1.37
25	CA	2523	G	N7-C5	-5.67	1.35	1.39
25	CA	2681	C	N1-C6	-5.67	1.33	1.37
25	CA	2579	C	N3-C4	-5.67	1.29	1.33
25	CA	1219	U	C2-N3	-5.66	1.33	1.37
25	CA	2591	C	N1-C6	-5.65	1.33	1.37
25	DA	910	A	N9-C4	-5.65	1.34	1.37
25	CA	1614	A	N9-C4	-5.65	1.34	1.37
25	CA	1396	U	N3-C4	-5.65	1.33	1.38
26	CB	78	A	N9-C4	-5.65	1.34	1.37
25	CA	1766	G	C5-C4	-5.64	1.34	1.38
25	CA	2264	C	N3-C4	-5.63	1.30	1.33
25	CA	2066	C	N1-C6	-5.63	1.33	1.37
25	CA	2478	A	N9-C4	-5.63	1.34	1.37
25	CA	2625	G	N9-C8	-5.62	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	CR	92	TRP	CB-CG	-5.62	1.40	1.50
25	CA	1286	A	N7-C5	-5.62	1.35	1.39
25	CA	863	A	N3-C4	-5.61	1.31	1.34
25	CA	2628	C	N3-C4	-5.61	1.30	1.33
25	CA	2060	A	N3-C4	-5.61	1.31	1.34
25	DA	203	A	N7-C5	-5.61	1.35	1.39
25	CA	204	A	N9-C4	-5.61	1.34	1.37
25	CA	946	C	N3-C4	-5.61	1.30	1.33
25	CA	1249	U	P-O5'	-5.60	1.54	1.59
25	CA	819	A	N7-C5	-5.60	1.35	1.39
25	CA	2628	C	N1-C6	-5.60	1.33	1.37
25	CA	735	A	N3-C4	-5.60	1.31	1.34
25	CA	1672	A	N7-C5	-5.60	1.35	1.39
25	CA	1009	A	N9-C4	-5.60	1.34	1.37
25	CA	554	U	N1-C2	-5.59	1.33	1.38
25	CA	2691	C	C2-N3	-5.59	1.31	1.35
25	CA	2724	U	C2-N3	-5.59	1.33	1.37
25	CA	1936	A	N9-C8	-5.58	1.42	1.37
25	CA	2012	G	N9-C8	-5.58	1.33	1.37
25	CA	830	G	C6-N1	-5.58	1.35	1.39
25	CA	2053	G	C8-N7	-5.58	1.27	1.30
25	CA	1250	G	N9-C8	-5.57	1.33	1.37
25	CA	2049	G	C6-N1	-5.57	1.35	1.39
25	CA	1677	A	C6-N1	-5.57	1.31	1.35
25	CA	1470	A	N3-C4	-5.56	1.31	1.34
25	DA	2881	U	N1-C2	-5.56	1.33	1.38
25	CA	536	G	N9-C4	-5.56	1.33	1.38
25	CA	670	A	N9-C4	-5.56	1.34	1.37
25	CA	776	G	C8-N7	-5.56	1.27	1.30
25	CA	1250	G	N7-C5	-5.55	1.35	1.39
25	CA	2351	G	N7-C5	-5.55	1.35	1.39
25	CA	750	A	N9-C4	-5.55	1.34	1.37
25	CA	2052	A	N3-C4	-5.55	1.31	1.34
25	CA	579	G	N9-C8	-5.55	1.33	1.37
25	CA	656	G	N9-C4	-5.55	1.33	1.38
25	CA	1658	C	N1-C6	-5.55	1.33	1.37
25	CA	1929	G	P-O5'	-5.54	1.54	1.59
25	CA	384	A	C6-N1	-5.54	1.31	1.35
25	CA	2510	C	N1-C6	-5.54	1.33	1.37
25	CA	2728	U	C2-N3	-5.54	1.33	1.37
25	CA	1265	A	C6-N1	-5.54	1.31	1.35
25	CA	2866	U	C2-N3	-5.53	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	DA	2498	C	N1-C6	-5.53	1.33	1.37
25	CA	2753	A	N9-C4	-5.53	1.34	1.37
25	CA	908	C	N1-C6	-5.52	1.33	1.37
25	CA	1247	A	N9-C4	-5.52	1.34	1.37
25	CA	1319	C	N1-C2	-5.52	1.34	1.40
25	CA	2245	U	C2-N3	-5.52	1.33	1.37
1	AA	1408	A	N9-C4	-5.52	1.34	1.37
25	CA	2225	A	C5-C6	-5.52	1.36	1.41
25	CA	1196	C	N3-C4	-5.52	1.30	1.33
25	CA	1316	U	C2-N3	-5.51	1.33	1.37
25	CA	1620	G	N3-C4	-5.51	1.31	1.35
25	CA	1993	U	N1-C2	-5.51	1.33	1.38
25	CA	1667	G	N1-C2	-5.51	1.33	1.37
25	CA	2330	G	N3-C4	-5.51	1.31	1.35
25	DA	2497	A	N7-C5	-5.51	1.35	1.39
25	CA	1766	G	N9-C4	-5.51	1.33	1.38
25	CA	824	U	C2-N3	-5.50	1.33	1.37
25	CA	1216	G	C6-N1	-5.50	1.35	1.39
25	CA	518	G	N9-C8	-5.50	1.34	1.37
25	DA	1785	A	N9-C4	-5.50	1.34	1.37
25	CA	1125	G	N7-C5	-5.50	1.35	1.39
25	CA	1360	G	C6-N1	-5.49	1.35	1.39
25	CA	2012	G	C5-C4	-5.49	1.34	1.38
25	CA	1354	A	N3-C4	-5.49	1.31	1.34
25	CA	2435	A	N9-C4	-5.49	1.34	1.37
25	CA	980	A	N3-C4	-5.49	1.31	1.34
25	CA	555	G	C8-N7	-5.48	1.27	1.30
25	CA	536	G	C2-N3	-5.48	1.28	1.32
25	CA	1818	U	C2-N3	-5.48	1.33	1.37
25	CA	2633	G	N3-C4	-5.48	1.31	1.35
25	CA	1658	C	N3-C4	-5.48	1.30	1.33
25	DA	1129	A	N7-C5	-5.48	1.35	1.39
25	CA	2394	C	N1-C2	-5.48	1.34	1.40
25	CA	17	G	C5-C4	-5.47	1.34	1.38
25	CA	768	G	N7-C5	-5.47	1.35	1.39
25	DA	975	A	N3-C4	-5.47	1.31	1.34
25	CA	1284	A	N9-C4	-5.47	1.34	1.37
25	CA	672	C	N1-C2	-5.47	1.34	1.40
25	CA	474	G	N7-C5	-5.47	1.35	1.39
25	CA	1641	A	N7-C5	-5.47	1.35	1.39
25	CA	1654	A	N9-C4	-5.47	1.34	1.37
25	CA	2351	G	C5-C6	-5.47	1.36	1.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	DA	2485	G	N9-C4	-5.47	1.33	1.38
26	CB	78	A	N7-C5	-5.46	1.35	1.39
25	CA	985	C	C2-N3	-5.46	1.31	1.35
25	CA	620	G	N9-C4	-5.45	1.33	1.38
25	CA	2616	C	N1-C2	-5.45	1.34	1.40
25	DA	2614	A	N9-C4	-5.45	1.34	1.37
25	CA	188	G	C6-N1	-5.45	1.35	1.39
25	CA	453	A	N7-C5	-5.45	1.35	1.39
25	CA	482	A	N9-C4	-5.45	1.34	1.37
25	CA	567	U	N1-C2	-5.45	1.33	1.38
25	CA	760	G	C5-C4	-5.45	1.34	1.38
25	CA	2711	A	N3-C4	-5.44	1.31	1.34
25	CA	2485	G	C2-N3	-5.44	1.28	1.32
25	DA	975	A	N7-C5	-5.44	1.35	1.39
25	DA	2257	U	C2-N3	-5.44	1.33	1.37
25	CA	1187	G	N7-C5	-5.43	1.35	1.39
25	CA	501	A	C6-N1	-5.43	1.31	1.35
25	CA	2496	C	N3-C4	-5.43	1.30	1.33
25	CA	675	A	C6-N1	-5.43	1.31	1.35
25	CA	997	G	N9-C4	-5.43	1.33	1.38
25	CA	13	A	C6-N1	-5.42	1.31	1.35
25	CA	959	A	N3-C4	-5.42	1.31	1.34
25	CA	2012	G	N3-C4	-5.42	1.31	1.35
25	CA	2616	C	N3-C4	-5.42	1.30	1.33
25	CA	515	A	N7-C5	-5.41	1.36	1.39
25	CA	852	U	N1-C2	-5.41	1.33	1.38
25	CA	1787	A	N3-C4	-5.41	1.31	1.34
25	CA	586	A	C6-N1	-5.41	1.31	1.35
25	DA	2518	A	N7-C5	-5.41	1.36	1.39
25	CA	1312	U	C2-N3	-5.40	1.33	1.37
25	CA	1999	C	N3-C4	-5.40	1.30	1.33
25	CA	1656	C	C2-N3	-5.40	1.31	1.35
25	CA	1255	U	N1-C2	-5.40	1.33	1.38
25	CA	2005	A	N7-C5	-5.40	1.36	1.39
25	CA	2364	C	C2-N3	-5.40	1.31	1.35
25	CA	450	G	N9-C8	-5.39	1.34	1.37
25	DA	1971	U	C2-N3	5.39	1.41	1.37
25	CA	2500	U	N1-C2	-5.39	1.33	1.38
25	CA	2057	G	N1-C2	-5.38	1.33	1.37
25	CA	997	G	N3-C4	-5.38	1.31	1.35
25	CA	1790	C	N1-C6	-5.38	1.33	1.37
25	DA	2564	A	N7-C5	-5.38	1.36	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	528	A	N3-C4	-5.38	1.31	1.34
25	CA	2046	G	C5-C6	-5.38	1.36	1.42
25	CA	1155	A	C5-C4	-5.37	1.34	1.38
25	CA	2685	G	P-O5'	-5.37	1.54	1.59
25	CA	1997	C	N1-C6	-5.37	1.33	1.37
25	DA	948	C	C2-O2	-5.37	1.19	1.24
25	CA	733	G	C5-C6	-5.37	1.36	1.42
25	CA	2376	A	C6-N1	-5.37	1.31	1.35
25	CA	817	C	C2-O2	-5.36	1.19	1.24
25	CA	1654	A	N7-C5	-5.36	1.36	1.39
25	CA	2788	C	N3-C4	-5.36	1.30	1.33
25	DA	2273	A	N9-C4	-5.36	1.34	1.37
25	CA	777	G	N9-C8	-5.36	1.34	1.37
25	CA	956	G	N9-C8	-5.36	1.34	1.37
25	CA	2020	A	N3-C4	-5.36	1.31	1.34
25	CA	2728	U	N3-C4	-5.36	1.33	1.38
25	CA	825	A	N9-C8	-5.36	1.33	1.37
25	CA	971	G	C5-C4	-5.35	1.34	1.38
26	CB	99	A	N7-C5	-5.35	1.36	1.39
25	CA	2590	A	N3-C4	-5.35	1.31	1.34
25	CA	1791	A	C5-C6	-5.34	1.36	1.41
25	CA	1301	A	N9-C4	-5.34	1.34	1.37
25	CA	2841	C	N1-C6	-5.34	1.33	1.37
25	CA	959	A	C6-N1	-5.34	1.31	1.35
25	CA	2579	C	C2-N3	-5.34	1.31	1.35
25	CA	1198	U	N1-C2	-5.34	1.33	1.38
25	CA	1226	A	N9-C8	-5.34	1.33	1.37
25	DA	2689	U	C2-N3	-5.34	1.34	1.37
25	CA	384	A	C5-C6	-5.33	1.36	1.41
25	CA	472	A	N9-C8	-5.33	1.33	1.37
25	CA	825	A	N9-C4	-5.33	1.34	1.37
25	DA	2013	A	N9-C4	-5.33	1.34	1.37
25	CA	2003	A	N7-C5	-5.33	1.36	1.39
25	CA	2349	G	C6-N1	-5.33	1.35	1.39
1	AA	1500	A	N9-C4	-5.33	1.34	1.37
25	CA	1641	A	N3-C4	-5.33	1.31	1.34
1	BA	1514	G	C5-C6	-5.33	1.37	1.42
25	DA	2508	G	N9-C8	-5.33	1.34	1.37
25	CA	1260	A	N9-C4	-5.32	1.34	1.37
25	CA	1672	A	P-O5'	-5.32	1.54	1.59
25	CA	1148	U	C2-N3	-5.32	1.34	1.37
25	CA	32	C	N1-C6	-5.32	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	1661	G	C6-N1	-5.32	1.35	1.39
25	CA	1826	G	N9-C8	-5.32	1.34	1.37
25	CA	1656	C	C2-O2	-5.31	1.19	1.24
25	CA	2008	C	N1-C6	-5.31	1.33	1.37
25	CA	952	G	N9-C8	-5.31	1.34	1.37
25	CA	2277	G	C6-N1	-5.30	1.35	1.39
25	CA	2010	G	C5-C4	-5.30	1.34	1.38
25	DA	1131	G	N3-C4	-5.30	1.31	1.35
25	CA	2722	G	N9-C4	-5.30	1.33	1.38
25	CA	971	G	N9-C8	-5.30	1.34	1.37
26	CB	50	A	N9-C4	-5.29	1.34	1.37
25	CA	1774	C	C4-C5	-5.28	1.38	1.43
25	CA	961	C	N1-C6	-5.28	1.33	1.37
25	CA	618	G	C2-N3	-5.28	1.28	1.32
25	CA	856	G	C2-N3	-5.28	1.28	1.32
1	AA	896	C	N1-C6	-5.27	1.33	1.37
25	CA	1278	C	C4-C5	-5.27	1.38	1.43
25	CA	945	A	C5-C4	-5.27	1.35	1.38
25	CA	78	U	C2-N3	-5.26	1.34	1.37
25	CA	482	A	C5-C6	-5.26	1.36	1.41
25	CA	1163	G	N3-C4	-5.26	1.31	1.35
25	DA	1244	A	N9-C4	-5.26	1.34	1.37
25	CA	770	G	N3-C4	-5.25	1.31	1.35
25	CA	2790	U	N1-C2	5.25	1.43	1.38
25	CA	2397	G	C5-C4	-5.24	1.34	1.38
25	CA	2211	A	N9-C4	5.24	1.41	1.37
25	CA	2271	G	N1-C2	-5.24	1.33	1.37
25	DA	1928	A	N3-C4	5.24	1.38	1.34
25	CA	2560	A	N3-C4	-5.23	1.31	1.34
25	CA	640	C	N1-C6	-5.22	1.34	1.37
25	CA	2482	A	N9-C4	-5.22	1.34	1.37
25	CA	2716	C	N3-C4	-5.22	1.30	1.33
25	CA	95	A	N3-C4	-5.22	1.31	1.34
25	CA	384	A	C6-N6	-5.22	1.29	1.33
25	CA	1944	U	C2-N3	-5.22	1.34	1.37
25	CA	2453	A	N3-C4	-5.22	1.31	1.34
25	DA	1802	A	N9-C4	-5.22	1.34	1.37
25	CA	2286	G	C5-C6	-5.22	1.37	1.42
25	CA	482	A	N7-C5	-5.21	1.36	1.39
25	CA	2497	A	C8-N7	-5.21	1.27	1.31
25	CA	2751	G	N3-C4	-5.21	1.31	1.35
25	CA	754	U	C2-N3	-5.21	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	960	A	C5-C4	-5.21	1.35	1.38
25	CA	749	A	N9-C4	-5.21	1.34	1.37
25	CA	89	A	C6-N1	-5.21	1.31	1.35
25	CA	2815	C	N3-C4	-5.21	1.30	1.33
25	CA	1332	G	C5-C4	-5.20	1.34	1.38
25	CA	2457	U	P-O5'	-5.20	1.54	1.59
25	CA	825	A	N3-C4	-5.20	1.31	1.34
25	CA	2277	G	N1-C2	-5.20	1.33	1.37
25	CA	522	A	N9-C8	-5.20	1.33	1.37
25	CA	1288	G	N9-C8	-5.20	1.34	1.37
25	CA	2709	G	C6-N1	-5.20	1.35	1.39
25	CA	1192	G	N7-C5	-5.19	1.36	1.39
25	CA	590	A	N9-C4	-5.19	1.34	1.37
25	CA	111	A	C5-C6	-5.19	1.36	1.41
25	CA	1950	G	C5-C4	-5.19	1.34	1.38
25	CA	533	G	C6-N1	-5.19	1.35	1.39
25	CA	1630	A	N3-C4	-5.19	1.31	1.34
25	CA	2010	G	N3-C4	-5.19	1.31	1.35
25	CA	1809	A	N9-C4	-5.19	1.34	1.37
25	CA	2508	G	C6-N1	-5.19	1.35	1.39
25	CA	2311	A	N9-C4	5.18	1.41	1.37
25	CA	1980	G	C6-N1	-5.18	1.35	1.39
25	CA	2071	A	N3-C4	-5.18	1.31	1.34
25	DA	1905	C	N1-C6	-5.18	1.34	1.37
25	CA	236	C	N1-C6	-5.18	1.34	1.37
25	CA	2589	A	C5-C6	-5.18	1.36	1.41
25	CA	679	C	N3-C4	-5.17	1.30	1.33
25	CA	1332	G	C6-N1	-5.17	1.35	1.39
25	CA	1791	A	N9-C4	-5.17	1.34	1.37
25	CA	1257	C	N1-C6	-5.16	1.34	1.37
25	CA	806	C	N3-C4	-5.16	1.30	1.33
25	CA	2056	G	C5-C4	-5.16	1.34	1.38
25	CA	2503	A	N7-C5	-5.16	1.36	1.39
25	CA	1570	A	N3-C4	-5.15	1.31	1.34
25	CA	827	U	N1-C2	-5.15	1.33	1.38
25	CA	2592	G	C6-N1	-5.15	1.35	1.39
25	CA	2851	A	N9-C4	5.15	1.41	1.37
25	CA	2823	A	N3-C4	-5.15	1.31	1.34
25	CA	1769	U	C2-N3	-5.15	1.34	1.37
25	CA	735	A	N9-C8	-5.14	1.33	1.37
25	CA	814	C	C4-C5	-5.14	1.38	1.43
25	DA	1217	U	C2-N3	-5.14	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	971	G	C8-N7	-5.14	1.27	1.30
25	CA	1213	A	N3-C4	-5.14	1.31	1.34
25	CA	1980	G	C6-O6	-5.14	1.19	1.24
25	CA	743	A	N3-C4	-5.14	1.31	1.34
25	CA	1624	U	C2-N3	-5.14	1.34	1.37
25	CA	2822	G	N3-C4	-5.14	1.31	1.35
25	CA	245	G	C6-N1	-5.14	1.35	1.39
25	CA	2495	G	C6-N1	-5.14	1.35	1.39
25	CA	993	G	N1-C2	-5.13	1.33	1.37
25	CA	1315	C	N1-C6	-5.13	1.34	1.37
25	CA	21	A	N3-C4	-5.13	1.31	1.34
25	CA	1336	A	N9-C8	-5.13	1.33	1.37
25	CA	1265	A	C5-C4	-5.13	1.35	1.38
25	CA	598	U	C2-N3	-5.12	1.34	1.37
25	CA	1167	C	N3-C4	-5.12	1.30	1.33
25	CA	1278	C	N3-C4	-5.12	1.30	1.33
25	DA	534	U	C2-N3	-5.12	1.34	1.37
25	DA	1648	U	N1-C2	-5.12	1.33	1.38
25	CA	564	C	N1-C6	-5.12	1.34	1.37
25	CA	2802	G	N3-C4	-5.12	1.31	1.35
35	CK	122	VAL	CA-CB	5.12	1.65	1.54
25	DA	2066	C	N3-C4	-5.12	1.30	1.33
25	CA	856	G	N9-C4	-5.12	1.33	1.38
25	CA	1245	G	N1-C2	-5.12	1.33	1.37
1	AA	1101	A	N9-C4	5.11	1.41	1.37
25	CA	2060	A	N9-C4	-5.11	1.34	1.37
25	CA	2510	C	N3-C4	-5.11	1.30	1.33
25	DA	13	A	N7-C5	-5.11	1.36	1.39
25	CA	974	G	N3-C4	-5.11	1.31	1.35
25	CA	1331	G	N9-C4	-5.11	1.33	1.38
25	CA	1795	C	N1-C6	-5.11	1.34	1.37
25	CA	680	C	N1-C6	-5.11	1.34	1.37
25	CA	1677	A	C5-C4	-5.11	1.35	1.38
25	CA	2241	A	N3-C4	-5.11	1.31	1.34
25	CA	1271	G	N9-C8	-5.10	1.34	1.37
25	DA	2407	A	N3-C4	5.10	1.38	1.34
25	CA	825	A	C5-C4	-5.10	1.35	1.38
25	CA	978	G	N9-C8	-5.10	1.34	1.37
25	CA	1142	A	C5-C6	-5.10	1.36	1.41
27	DC	247	TRP	CB-CG	-5.09	1.41	1.50
25	CA	1125	G	C6-N1	-5.09	1.35	1.39
25	CA	2722	G	C6-N1	-5.09	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	590	A	N3-C4	-5.09	1.31	1.34
25	CA	745	G	C6-N1	-5.09	1.35	1.39
25	CA	1767	G	C2-N3	-5.09	1.28	1.32
25	DA	2048	G	N1-C2	-5.09	1.33	1.37
25	CA	1318	U	C2-N3	-5.08	1.34	1.37
25	CA	2047	C	N1-C6	-5.08	1.34	1.37
25	CA	689	A	C6-N1	-5.08	1.31	1.35
25	CA	1301	A	N7-C5	-5.08	1.36	1.39
25	CA	704	G	N9-C8	-5.08	1.34	1.37
25	DA	2442	C	N1-C2	-5.08	1.35	1.40
25	CA	2571	U	N1-C2	-5.08	1.33	1.38
25	CA	2598	A	N9-C4	-5.08	1.34	1.37
25	CA	1399	C	N1-C6	-5.08	1.34	1.37
25	CA	1784	A	C5-C6	-5.07	1.36	1.41
25	CA	751	A	N7-C5	-5.07	1.36	1.39
1	BA	116	A	N9-C4	-5.07	1.34	1.37
25	CA	735	A	C6-N1	-5.07	1.32	1.35
25	CA	122	G	C5-C4	-5.06	1.34	1.38
25	CA	1009	A	N7-C5	-5.06	1.36	1.39
25	CA	409	G	N3-C4	-5.06	1.31	1.35
25	CA	2864	G	N1-C2	-5.06	1.33	1.37
26	CB	82	U	N1-C2	-5.06	1.33	1.38
25	DA	509	C	N1-C6	-5.06	1.34	1.37
25	CA	1770	G	N9-C8	-5.06	1.34	1.37
25	CA	2595	G	N3-C4	-5.06	1.31	1.35
25	CA	17	G	N9-C4	-5.05	1.33	1.38
25	CA	575	A	C5-C4	-5.05	1.35	1.38
25	CA	222	A	N3-C4	-5.05	1.31	1.34
25	CA	1031	G	N1-C2	-5.05	1.33	1.37
25	CA	2723	C	N3-C4	-5.05	1.30	1.33
25	CA	552	U	N1-C2	-5.05	1.34	1.38
25	CA	2838	G	N9-C4	-5.05	1.33	1.38
25	CA	1226	A	N3-C4	-5.04	1.31	1.34
25	CA	2254	C	N1-C2	-5.04	1.35	1.40
25	CA	2599	G	N7-C5	-5.04	1.36	1.39
25	CA	2364	C	N1-C2	-5.04	1.35	1.40
1	BA	1105	A	N9-C4	5.04	1.40	1.37
25	CA	1661	G	N1-C2	-5.04	1.33	1.37
25	CA	2021	C	P-O5'	-5.04	1.54	1.59
25	CA	777	G	N7-C5	-5.04	1.36	1.39
25	CA	2045	C	C2-N3	-5.04	1.31	1.35
25	CA	1188	U	N1-C2	-5.03	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	CA	17	G	C2-N3	-5.03	1.28	1.32
25	CA	1163	G	C5-C4	-5.03	1.34	1.38
25	DA	2053	G	C6-N1	-5.03	1.36	1.39
25	CA	591	U	C2-N3	-5.03	1.34	1.37
25	CA	1294	U	N1-C6	-5.03	1.33	1.38
25	CA	666	A	C6-N1	-5.03	1.32	1.35
25	CA	2802	G	N9-C4	-5.02	1.33	1.38
1	BA	1514	G	C6-N1	-5.02	1.36	1.39
25	CA	2598	A	N3-C4	-5.02	1.31	1.34
25	CA	675	A	N3-C4	-5.02	1.31	1.34
25	CA	2894	G	N9-C4	-5.02	1.33	1.38
25	CA	2523	G	C5-C6	-5.01	1.37	1.42
25	CA	784	G	P-O5'	-5.01	1.54	1.59
25	CA	409	G	C6-N1	-5.01	1.36	1.39
25	CA	917	A	N7-C5	-5.01	1.36	1.39
25	DA	2250	G	N9-C8	5.01	1.41	1.37
25	CA	739	A	N3-C4	-5.01	1.31	1.34
35	CK	92	GLU	CB-CG	5.01	1.61	1.52
25	DA	975	A	N9-C4	-5.01	1.34	1.37
25	CA	2047	C	C2-O2	-5.01	1.20	1.24
25	CA	382	A	C5-C6	-5.00	1.36	1.41
25	CA	575	A	C6-N6	-5.00	1.29	1.33
25	CA	690	G	N3-C4	-5.00	1.31	1.35
25	CA	2530	A	C5-C6	-5.00	1.36	1.41
25	CA	784	G	N7-C5	-5.00	1.36	1.39
25	CA	792	A	N7-C5	-5.00	1.36	1.39
25	CA	2498	C	N1-C6	-5.00	1.34	1.37
25	DA	1214	A	N9-C4	-5.00	1.34	1.37

All (4150) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	984	A	C2-N3-C4	-18.86	101.17	110.60
25	CA	2250	G	N3-C4-C5	17.23	137.22	128.60
25	CA	1638	C	N1-C2-O2	-16.64	108.92	118.90
25	CA	1142	A	C2-N3-C4	-16.61	102.29	110.60
25	CA	1142	A	N3-C4-C5	16.11	138.07	126.80
25	CA	984	A	N1-C6-N6	15.63	127.98	118.60
25	CA	1452	G	C4-C5-N7	15.46	116.98	110.80
25	DA	974	G	C4-C5-N7	15.43	116.97	110.80
25	CA	974	G	C5-N7-C8	-15.28	96.66	104.30
25	CA	1452	G	N1-C6-O6	15.19	129.01	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2250	G	C2-N3-C4	-15.17	104.31	111.90
25	CA	752	A	C6-C5-N7	-15.15	121.70	132.30
25	CA	974	G	C4-C5-N7	15.10	116.84	110.80
25	CA	984	A	N3-C4-C5	14.97	137.28	126.80
25	CA	752	A	N1-C6-N6	14.67	127.40	118.60
25	CA	1142	A	N3-C4-N9	-14.48	115.81	127.40
25	DA	974	G	C5-N7-C8	-13.99	97.30	104.30
25	DA	1164	C	N1-C2-O2	-13.99	110.50	118.90
25	CA	974	G	N3-C4-C5	13.68	135.44	128.60
1	BA	245	U	C2-N1-C1'	-13.58	101.40	117.70
25	CA	1452	G	C5-N7-C8	-13.48	97.56	104.30
25	CA	1452	G	C6-C5-N7	-13.44	122.34	130.40
25	DA	984	A	C2-N3-C4	-13.34	103.93	110.60
25	CA	1452	G	C2-N3-C4	-13.22	105.29	111.90
25	CA	2250	G	N3-C4-N9	-13.20	118.08	126.00
25	DA	783	A	C5-N7-C8	-13.04	97.38	103.90
25	CA	752	A	C5-N7-C8	-12.86	97.47	103.90
25	CA	2250	G	C5-N7-C8	-12.78	97.91	104.30
28	CD	151	THR	C-N-CD	-12.63	92.82	120.60
25	CA	528	A	C6-C5-N7	-12.45	123.58	132.30
25	DA	974	G	N7-C8-N9	12.38	119.29	113.10
25	DA	1142	A	C2-N3-C4	-12.33	104.43	110.60
25	CA	752	A	C4-C5-N7	12.31	116.85	110.70
25	DA	783	A	C4-C5-N7	12.30	116.85	110.70
25	CA	783	A	C5-N7-C8	-12.28	97.76	103.90
25	CA	1779	U	C5-C4-O4	12.02	133.11	125.90
25	CA	2250	G	C4-C5-N7	11.98	115.59	110.80
25	CA	528	A	N7-C8-N9	11.88	119.74	113.80
25	CA	337	C	C6-N1-C2	11.86	125.04	120.30
25	CA	783	A	C4-C5-N7	11.75	116.57	110.70
25	DA	974	G	C6-C5-N7	-11.69	123.39	130.40
25	CA	1396	U	N3-C4-O4	-11.67	111.23	119.40
25	DA	660	C	C6-N1-C2	11.67	124.97	120.30
25	CA	2830	C	N1-C2-O2	-11.56	111.97	118.90
25	CA	1452	G	N3-C4-C5	11.49	134.34	128.60
25	CA	1547	C	N1-C2-O2	-11.48	112.01	118.90
25	DA	783	A	N1-C6-N6	11.30	125.38	118.60
25	DA	2594	C	N1-C2-O2	-11.30	112.12	118.90
25	DA	1936	A	C2-N3-C4	-11.25	104.97	110.60
25	CA	1319	C	C6-N1-C2	11.21	124.79	120.30
25	DA	253	C	N1-C2-O2	-11.18	112.19	118.90
25	CA	528	A	N1-C6-N6	11.16	125.30	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	CB	19	C	C6-N1-C2	11.15	124.76	120.30
25	CA	2364	C	C6-N1-C2	11.09	124.73	120.30
25	CA	528	A	C8-N9-C4	-11.01	101.39	105.80
25	CA	974	G	N3-C4-N9	-10.93	119.44	126.00
25	CA	1989	G	C5-C6-O6	-10.86	122.08	128.60
25	CA	1779	U	N3-C4-O4	-10.86	111.80	119.40
25	CA	1936	A	C2-N3-C4	-10.82	105.19	110.60
25	DA	2689	U	C5-C4-O4	10.80	132.38	125.90
25	CA	783	A	N1-C6-N6	10.76	125.06	118.60
25	CA	1547	C	N3-C2-O2	10.73	129.41	121.90
25	CA	2866	U	N3-C2-O2	-10.72	114.69	122.20
1	AA	1499	A	C8-N9-C4	10.69	110.08	105.80
25	DA	974	G	N1-C6-O6	10.60	126.26	119.90
25	CA	2286	G	C4-C5-N7	10.58	115.03	110.80
25	CA	342	A	N1-C6-N6	10.57	124.94	118.60
1	AA	245	U	C2-N1-C1'	-10.57	105.02	117.70
25	DA	2689	U	N3-C4-O4	-10.57	112.00	119.40
25	CA	528	A	C5-N7-C8	-10.53	98.64	103.90
25	CA	984	A	C5-C6-N1	-10.52	112.44	117.70
25	CA	974	G	N7-C8-N9	10.49	118.35	113.10
25	CA	984	A	C4-C5-N7	10.49	115.95	110.70
25	CA	1936	A	C5-N7-C8	-10.48	98.66	103.90
25	CA	444	C	N1-C2-O2	-10.46	112.62	118.90
25	DA	984	A	N3-C4-C5	10.43	134.10	126.80
25	CA	1142	A	C5-N7-C8	-10.42	98.69	103.90
25	CA	1311	G	N3-C4-C5	10.40	133.80	128.60
25	CA	1463	C	N1-C2-O2	-10.39	112.67	118.90
25	CA	752	A	C5-C6-N6	-10.36	115.41	123.70
25	CA	672	C	N3-C4-C5	-10.35	117.76	121.90
25	CA	2689	U	N3-C2-O2	-10.35	114.96	122.20
25	CA	332	A	N1-C6-N6	-10.34	112.39	118.60
1	BA	283	U	C2-N1-C1'	10.34	130.10	117.70
1	AA	1524	C	N1-C2-O2	-10.32	112.71	118.90
25	DA	129	C	C6-N1-C2	10.30	124.42	120.30
1	BA	245	U	C6-N1-C1'	10.30	135.62	121.20
25	CA	752	A	N7-C8-N9	10.29	118.94	113.80
25	CA	1779	U	N1-C2-N3	10.27	121.06	114.90
25	CA	914	G	N3-C4-C5	10.24	133.72	128.60
25	CA	528	A	C4-C5-C6	10.21	122.11	117.00
1	BA	677	U	N3-C2-O2	-10.19	115.07	122.20
25	CA	2286	G	C2-N3-C4	-10.19	106.81	111.90
25	CA	2286	G	N3-C4-C5	10.17	133.69	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1325	U	C2-N1-C1'	-10.11	105.56	117.70
25	CA	984	A	C5-N7-C8	-10.11	98.84	103.90
25	CA	2286	G	C5-N7-C8	-10.10	99.25	104.30
25	CA	2275	C	C6-N1-C2	-10.09	116.26	120.30
25	CA	2820	A	C8-N9-C4	10.08	109.83	105.80
25	CA	984	A	N3-C4-N9	-10.07	119.34	127.40
25	CA	446	G	C5-C6-O6	-10.06	122.56	128.60
25	CA	1351	C	N1-C2-O2	-10.06	112.87	118.90
25	CA	1212	G	C8-N9-C4	10.02	110.41	106.40
1	BA	713	G	N1-C6-O6	-10.01	113.89	119.90
25	CA	528	A	N1-C2-N3	10.01	134.30	129.30
25	CA	2232	C	N1-C2-O2	-9.98	112.91	118.90
25	CA	1990	C	C6-N1-C2	-9.98	116.31	120.30
26	CB	114	C	C6-N1-C2	9.96	124.28	120.30
25	CA	483	A	C8-N9-C4	9.95	109.78	105.80
25	CA	993	G	N1-C6-O6	-9.93	113.94	119.90
25	CA	752	A	C4-N9-C1'	9.91	144.15	126.30
25	CA	1756	G	C5-C6-O6	-9.88	122.67	128.60
25	CA	1971	U	C5-C4-O4	-9.87	119.98	125.90
25	CA	550	C	C2-N1-C1'	9.85	129.63	118.80
28	DD	151	THR	C-N-CD	-9.82	98.99	120.60
25	DA	528	A	C2-N3-C4	-9.80	105.70	110.60
25	CA	979	A	N1-C6-N6	9.78	124.47	118.60
25	CA	784	G	C4-N9-C1'	9.71	139.13	126.50
25	CA	2031	A	C8-N9-C4	-9.71	101.92	105.80
25	CA	784	G	C8-N9-C1'	-9.69	114.40	127.00
25	CA	2840	C	N3-C4-C5	9.69	125.78	121.90
25	CA	1301	A	N1-C6-N6	9.67	124.40	118.60
25	DA	2286	G	N3-C4-C5	9.66	133.43	128.60
25	CA	555	G	C8-N9-C1'	-9.64	114.47	127.00
25	CA	1289	C	N3-C4-C5	9.62	125.75	121.90
25	DA	2532	G	N1-C6-O6	9.61	125.67	119.90
25	DA	2884	U	N1-C2-O2	-9.61	116.08	122.80
25	DA	2226	C	C2-N3-C4	-9.60	115.10	119.90
25	CA	2254	C	N1-C2-O2	-9.57	113.16	118.90
25	CA	817	C	N1-C2-O2	-9.57	113.16	118.90
25	CA	1988	G	N1-C6-O6	9.56	125.64	119.90
25	DA	979	A	N1-C6-N6	-9.56	112.86	118.60
25	CA	906	U	C2-N1-C1'	-9.54	106.25	117.70
25	CA	726	G	C6-C5-N7	-9.52	124.69	130.40
25	CA	974	G	C2-N3-C4	-9.50	107.15	111.90
25	CA	1220	G	C5-C6-O6	9.49	134.29	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	690	G	C8-N9-C4	9.48	110.19	106.40
25	DA	2226	C	N3-C4-C5	9.48	125.69	121.90
25	DA	2564	A	C8-N9-C4	-9.47	102.01	105.80
25	DA	528	A	C5-N7-C8	-9.46	99.17	103.90
25	DA	2686	G	C8-N9-C4	-9.44	102.62	106.40
25	CA	1311	G	C5-N7-C8	-9.40	99.60	104.30
25	DA	822	G	N3-C4-C5	9.37	133.29	128.60
25	DA	2841	C	C6-N1-C2	9.36	124.04	120.30
1	AA	283	U	C2-N1-C1'	9.35	128.92	117.70
25	CA	2820	A	N9-C4-C5	-9.32	102.07	105.80
1	BA	136	C	C6-N1-C2	9.31	124.02	120.30
1	AA	794	A	N1-C6-N6	-9.29	113.03	118.60
1	BA	691	G	N1-C6-O6	-9.29	114.33	119.90
1	BA	335	C	C6-N1-C2	-9.27	116.59	120.30
25	DA	1452	G	C2-N3-C4	-9.27	107.27	111.90
1	AA	1513	A	C8-N9-C4	9.26	109.50	105.80
25	DA	1653	G	C6-C5-N7	-9.24	124.86	130.40
25	CA	2762	C	C6-N1-C2	9.23	123.99	120.30
25	CA	733	G	C5-C6-O6	-9.21	123.07	128.60
25	CA	482	A	N1-C6-N6	9.21	124.13	118.60
25	DA	1278	C	C6-N1-C2	9.21	123.98	120.30
25	DA	1452	G	N3-C4-C5	9.20	133.20	128.60
25	CA	2771	C	N1-C2-O2	-9.19	113.39	118.90
25	CA	2689	U	N3-C4-O4	-9.17	112.98	119.40
1	AA	332	G	C8-N9-C4	9.17	110.07	106.40
1	BA	677	U	C2-N1-C1'	9.13	128.66	117.70
25	CA	528	A	C2-N3-C4	-9.12	106.04	110.60
1	BA	910	C	C6-N1-C2	-9.12	116.65	120.30
25	CA	2820	A	N1-C6-N6	9.10	124.06	118.60
25	CA	1249	U	N1-C2-O2	-9.09	116.44	122.80
25	DA	809	G	N9-C4-C5	9.09	109.04	105.40
22	AV	31	A	C8-N9-C4	9.09	109.43	105.80
25	CA	2295	C	N1-C2-O2	-9.05	113.47	118.90
25	DA	394	C	C6-N1-C2	9.05	123.92	120.30
25	CA	1315	C	N1-C2-O2	-9.01	113.50	118.90
25	CA	1779	U	C5-C6-N1	-9.01	118.20	122.70
25	CA	1572	A	N9-C4-C5	9.00	109.40	105.80
25	CA	2838	G	C8-N9-C4	9.00	110.00	106.40
1	BA	322	C	N3-C4-C5	8.98	125.49	121.90
25	CA	567	U	N1-C2-O2	-8.98	116.52	122.80
25	DA	424	G	N3-C4-C5	8.98	133.09	128.60
25	CA	1837	C	N1-C2-O2	-8.97	113.52	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	677	U	C6-N1-C2	-8.97	115.62	121.00
25	CA	1936	A	C5-C6-N1	-8.96	113.22	117.70
25	DA	2811	G	N3-C4-C5	8.95	133.07	128.60
25	CA	598	U	C2-N1-C1'	-8.94	106.98	117.70
25	DA	488	G	N3-C4-N9	8.93	131.36	126.00
25	DA	2354	C	N1-C2-O2	-8.92	113.55	118.90
25	CA	1224	U	C2-N1-C1'	-8.91	107.00	117.70
25	DA	974	G	C8-N9-C4	-8.91	102.84	106.40
25	CA	1612	C	N1-C2-O2	-8.90	113.56	118.90
25	CA	752	A	C4-C5-C6	8.89	121.45	117.00
25	CA	992	C	N1-C2-O2	-8.89	113.56	118.90
25	DA	1142	A	C5-C6-N1	-8.89	113.25	117.70
25	CA	1638	C	N3-C2-O2	8.89	128.12	121.90
25	DA	1796	U	C6-N1-C2	8.89	126.33	121.00
25	CA	1756	G	N1-C6-O6	8.87	125.22	119.90
25	CA	1452	G	C5-C6-O6	-8.87	123.28	128.60
25	CA	332	A	N9-C4-C5	8.86	109.34	105.80
25	DA	1761	C	N1-C2-O2	-8.86	113.58	118.90
25	CA	237	C	N1-C2-O2	-8.85	113.59	118.90
25	CA	821	A	C8-N9-C4	8.84	109.34	105.80
25	DA	1939	U	C5-C4-O4	-8.84	120.60	125.90
25	CA	456	C	N1-C2-O2	-8.83	113.60	118.90
25	CA	1396	U	C5-C4-O4	8.83	131.20	125.90
25	DA	526	A	N9-C4-C5	8.83	109.33	105.80
25	DA	1423	G	C8-N9-C4	8.82	109.93	106.40
25	CA	2621	G	N9-C4-C5	8.82	108.93	105.40
1	AA	1457	G	C8-N9-C4	8.81	109.92	106.40
25	DA	826	U	N1-C2-O2	-8.80	116.64	122.80
25	DA	2521	C	N1-C2-O2	-8.80	113.62	118.90
25	CA	1936	A	N1-C6-N6	8.79	123.88	118.60
25	DA	787	C	N1-C2-O2	-8.79	113.62	118.90
25	DA	22	C	N3-C2-O2	-8.79	115.75	121.90
25	CA	1311	G	N1-C6-O6	8.78	125.17	119.90
25	CA	1319	C	N3-C2-O2	8.78	128.05	121.90
25	CA	807	U	C5-C4-O4	-8.78	120.63	125.90
25	CA	1573	G	N1-C6-O6	8.78	125.17	119.90
25	CA	63	A	N1-C6-N6	-8.76	113.34	118.60
25	CA	1985	C	N1-C2-O2	-8.76	113.64	118.90
25	DA	210	C	C6-N1-C2	8.75	123.80	120.30
25	CA	1612	C	N3-C2-O2	8.74	128.02	121.90
25	CA	675	A	C8-N9-C4	-8.74	102.31	105.80
25	CA	555	G	N3-C4-N9	8.73	131.24	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	713	G	N1-C6-O6	-8.73	114.66	119.90
25	CA	2067	G	C5-C6-O6	-8.72	123.37	128.60
25	DA	376	G	N1-C6-O6	8.71	125.13	119.90
25	CA	1804	C	N3-C4-C5	8.71	125.38	121.90
25	DA	2448	A	N1-C6-N6	8.68	123.81	118.60
25	CA	1793	C	C6-N1-C2	8.67	123.77	120.30
25	CA	2462	C	N1-C2-O2	-8.67	113.70	118.90
25	DA	2626	C	C6-N1-C2	8.67	123.77	120.30
25	CA	812	C	N1-C2-O2	-8.66	113.70	118.90
25	CA	2293	G	N1-C6-O6	-8.65	114.71	119.90
1	BA	176	C	C6-N1-C2	8.65	123.76	120.30
25	DA	16	C	N1-C2-O2	-8.64	113.72	118.90
25	CA	1660	G	C4-C5-N7	-8.62	107.35	110.80
25	DA	1325	U	N3-C2-O2	8.62	128.24	122.20
25	DA	2709	G	N3-C4-C5	8.61	132.91	128.60
25	CA	2090	A	N1-C6-N6	-8.61	113.43	118.60
25	CA	1808	A	N1-C6-N6	8.61	123.76	118.60
25	DA	2049	G	N3-C4-N9	8.60	131.16	126.00
25	DA	417	C	C6-N1-C2	-8.59	116.86	120.30
26	CB	8	C	C6-N1-C2	8.59	123.74	120.30
1	AA	796	C	N1-C2-O2	8.56	124.03	118.90
25	DA	2445	G	C5-C6-O6	-8.55	123.47	128.60
25	CA	2351	G	C6-C5-N7	-8.53	125.28	130.40
1	BA	846	G	N3-C4-C5	-8.52	124.34	128.60
25	DA	2261	C	N1-C2-O2	-8.52	113.79	118.90
25	DA	329	G	N1-C6-O6	-8.52	114.79	119.90
25	CA	2551	C	N1-C2-O2	-8.51	113.80	118.90
25	CA	221	A	C2-N3-C4	-8.51	106.35	110.60
1	BA	1484	C	C6-N1-C2	8.50	123.70	120.30
25	DA	528	A	N1-C6-N6	8.50	123.70	118.60
25	DA	2677	G	N9-C4-C5	8.50	108.80	105.40
25	CA	555	G	N9-C4-C5	-8.49	102.00	105.40
25	DA	2046	G	C8-N9-C4	8.49	109.80	106.40
25	CA	1335	C	N1-C2-O2	-8.48	113.81	118.90
25	CA	1556	C	N1-C2-O2	-8.46	113.82	118.90
25	CA	2598	A	N9-C4-C5	8.46	109.18	105.80
25	CA	1122	G	C5-C6-O6	8.46	133.67	128.60
25	CA	974	G	C8-N9-C4	-8.46	103.02	106.40
25	CA	208	C	C6-N1-C2	8.45	123.68	120.30
25	DA	2049	G	N3-C4-C5	-8.45	124.38	128.60
25	CA	2059	A	N1-C6-N6	8.44	123.67	118.60
26	CB	61	G	C8-N9-C4	8.44	109.78	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	501	A	C2-N3-C4	-8.44	106.38	110.60
25	DA	974	G	C5-C6-O6	-8.44	123.54	128.60
25	CA	1779	U	N3-C2-O2	-8.43	116.30	122.20
25	CA	1936	A	C8-N9-C4	-8.42	102.43	105.80
25	DA	984	A	N1-C6-N6	8.42	123.65	118.60
25	CA	1311	G	C4-C5-N7	8.39	114.16	110.80
25	CA	2553	G	N3-C4-N9	8.38	131.03	126.00
25	CA	1936	A	N7-C8-N9	8.37	117.98	113.80
25	CA	1564	C	N1-C2-O2	-8.37	113.88	118.90
25	CA	1311	G	C2-N3-C4	-8.36	107.72	111.90
25	CA	2277	G	N1-C6-O6	-8.36	114.88	119.90
25	CA	425	G	C5-C6-O6	-8.36	123.58	128.60
25	CA	2416	C	C6-N1-C2	-8.34	116.96	120.30
25	CA	1142	A	C5-C6-N1	-8.33	113.53	117.70
25	DA	783	A	N7-C8-N9	8.31	117.96	113.80
25	CA	446	G	N1-C6-O6	8.31	124.89	119.90
25	DA	22	C	C6-N1-C2	-8.31	116.98	120.30
25	CA	1378	A	N1-C6-N6	-8.31	113.62	118.60
25	CA	1437	C	N1-C2-O2	-8.31	113.92	118.90
25	DA	1646	C	C2-N1-C1'	-8.30	109.67	118.80
25	CA	1685	C	C6-N1-C2	8.28	123.61	120.30
25	DA	1676	A	C8-N9-C4	8.28	109.11	105.80
25	CA	2820	A	C2-N3-C4	-8.26	106.47	110.60
25	CA	1617	C	C6-N1-C2	8.25	123.60	120.30
25	CA	2147	A	N1-C6-N6	8.23	123.54	118.60
25	CA	752	A	C8-N9-C1'	-8.22	112.90	127.70
25	CA	2081	U	N1-C2-O2	-8.22	117.04	122.80
25	DA	871	U	C2-N1-C1'	-8.22	107.83	117.70
25	CA	2745	C	C6-N1-C2	8.22	123.59	120.30
25	DA	1936	A	C4-C5-N7	8.21	114.81	110.70
25	DA	2226	C	C5-C6-N1	-8.21	116.90	121.00
25	DA	814	C	C6-N1-C2	-8.20	117.02	120.30
1	BA	109	A	C2-N3-C4	-8.20	106.50	110.60
25	CA	90	U	N3-C2-O2	-8.20	116.46	122.20
25	DA	2885	G	C5-C6-O6	8.18	133.51	128.60
25	CA	1340	U	C5-C4-O4	8.18	130.81	125.90
25	CA	8	C	N1-C2-O2	-8.17	114.00	118.90
25	DA	2848	G	C4-C5-N7	-8.17	107.53	110.80
25	DA	1764	C	N1-C2-O2	-8.14	114.02	118.90
25	DA	732	C	N1-C2-O2	-8.14	114.02	118.90
25	DA	2226	C	N3-C4-N4	-8.13	112.31	118.00
25	CA	2745	C	N3-C4-C5	8.12	125.15	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	647	G	C8-N9-C4	8.12	109.65	106.40
25	DA	528	A	C5-C6-N1	-8.11	113.64	117.70
25	DA	574	A	C8-N9-C4	8.11	109.04	105.80
25	CA	1357	C	N3-C4-C5	8.10	125.14	121.90
25	DA	2250	G	C5-N7-C8	-8.10	100.25	104.30
25	CA	508	A	C8-N9-C4	8.10	109.04	105.80
25	DA	2434	A	N1-C6-N6	8.10	123.46	118.60
25	CA	516	C	N1-C2-O2	-8.09	114.05	118.90
25	CA	2512	C	N1-C2-O2	-8.08	114.05	118.90
25	DA	2876	G	C8-N9-C4	8.07	109.63	106.40
25	CA	935	C	N1-C2-O2	-8.07	114.06	118.90
25	CA	552	U	N1-C2-O2	-8.06	117.16	122.80
25	CA	1595	C	C6-N1-C2	8.06	123.52	120.30
25	CA	223	A	N9-C4-C5	8.06	109.02	105.80
25	CA	371	A	C8-N9-C4	8.05	109.02	105.80
25	CA	2177	C	N3-C2-O2	-8.05	116.27	121.90
25	CA	908	C	N1-C2-O2	-8.05	114.07	118.90
25	DA	22	C	C2-N1-C1'	8.04	127.64	118.80
25	DA	1941	C	N1-C2-O2	-8.04	114.08	118.90
25	CA	239	C	C6-N1-C2	8.04	123.52	120.30
1	BA	365	U	C5-C6-N1	-8.04	118.68	122.70
25	CA	919	U	N1-C2-O2	8.04	128.43	122.80
25	CA	2177	C	N1-C2-O2	8.04	123.72	118.90
25	CA	748	G	C4-C5-N7	-8.02	107.59	110.80
1	AA	1484	C	N1-C2-O2	-8.02	114.09	118.90
25	CA	2699	C	C6-N1-C2	8.02	123.51	120.30
25	CA	2523	G	N9-C4-C5	-8.01	102.20	105.40
25	DA	2885	G	N3-C4-C5	-8.01	124.60	128.60
25	CA	676	A	N1-C6-N6	-8.00	113.80	118.60
25	CA	2031	A	N9-C4-C5	8.00	109.00	105.80
25	CA	1437	C	N3-C2-O2	8.00	127.50	121.90
25	CA	2069	G	N3-C4-C5	8.00	132.60	128.60
25	CA	2896	C	N3-C2-O2	-7.99	116.31	121.90
25	DA	1298	C	C6-N1-C2	7.98	123.49	120.30
25	CA	2278	A	N1-C6-N6	7.97	123.38	118.60
25	DA	1142	A	N1-C6-N6	7.96	123.38	118.60
25	CA	1892	C	N1-C2-O2	-7.96	114.13	118.90
26	CB	15	A	C2-N3-C4	-7.96	106.62	110.60
25	CA	997	G	N3-C4-N9	-7.95	121.23	126.00
25	CA	2621	G	C5-C6-O6	7.95	133.37	128.60
25	CA	2032	G	C8-N9-C4	7.95	109.58	106.40
1	AA	71	A	N1-C6-N6	7.94	123.37	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	691	G	C5-C6-O6	7.94	133.37	128.60
25	DA	984	A	N3-C4-N9	-7.94	121.05	127.40
25	CA	1519	G	C4-C5-N7	-7.94	107.62	110.80
25	CA	2067	G	C4-C5-N7	7.94	113.97	110.80
25	CA	1325	U	C5-C4-O4	7.93	130.66	125.90
25	DA	2503	A	N1-C6-N6	7.93	123.36	118.60
1	BA	1482	G	N3-C4-N9	7.93	130.76	126.00
25	CA	930	G	C4-C5-N7	-7.93	107.63	110.80
25	CA	2447	G	N9-C4-C5	-7.92	102.23	105.40
25	CA	1220	G	N1-C6-O6	-7.92	115.15	119.90
25	DA	826	U	N3-C2-O2	7.91	127.74	122.20
25	CA	2616	C	C6-N1-C2	7.90	123.46	120.30
25	DA	238	C	N1-C2-O2	-7.90	114.16	118.90
25	DA	15	G	C2-N3-C4	-7.90	107.95	111.90
25	CA	942	G	C5-C6-O6	7.89	133.34	128.60
25	CA	2896	C	C2-N1-C1'	7.89	127.48	118.80
25	CA	1804	C	C6-N1-C2	7.89	123.45	120.30
25	CA	2422	C	N1-C2-O2	-7.89	114.17	118.90
26	CB	47	C	N1-C2-O2	-7.89	114.17	118.90
25	DA	2282	G	N1-C6-O6	-7.89	115.17	119.90
25	CA	1013	C	N1-C2-O2	-7.88	114.17	118.90
25	CA	1389	G	C5-C6-O6	-7.88	123.88	128.60
25	DA	823	C	C5-C4-N4	-7.88	114.69	120.20
1	BA	926	G	C5-C6-O6	7.87	133.32	128.60
25	CA	2691	C	N3-C4-C5	7.87	125.05	121.90
25	CA	1022	G	N3-C4-N9	-7.87	121.28	126.00
25	CA	2320	U	C5-C4-O4	7.86	130.61	125.90
25	CA	1212	G	N9-C4-C5	-7.85	102.26	105.40
25	DA	2677	G	C6-C5-N7	7.85	135.11	130.40
22	AV	4	C	N1-C2-O2	-7.84	114.19	118.90
25	CA	1660	G	N9-C4-C5	7.84	108.54	105.40
25	CA	984	A	C6-N1-C2	7.84	123.30	118.60
25	CA	1265	A	C6-N1-C2	-7.84	113.90	118.60
25	CA	988	A	C5-C6-N1	-7.83	113.78	117.70
25	CA	2699	C	C2-N1-C1'	-7.83	110.19	118.80
25	CA	2286	G	C6-C5-N7	-7.83	125.70	130.40
25	CA	2289	G	C5-C6-O6	7.82	133.29	128.60
25	CA	801	G	N9-C4-C5	7.81	108.53	105.40
25	CA	205	G	N1-C6-O6	-7.81	115.21	119.90
26	CB	75	G	N1-C6-O6	-7.81	115.22	119.90
25	CA	1328	A	C2-N3-C4	-7.80	106.70	110.60
25	DA	1030	C	N3-C4-C5	7.80	125.02	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	984	A	C5-C6-N1	-7.80	113.80	117.70
25	CA	2289	G	N1-C6-O6	-7.80	115.22	119.90
25	DA	2885	G	C4-C5-N7	-7.79	107.68	110.80
25	CA	2067	G	C6-C5-N7	-7.79	125.73	130.40
25	CA	2760	C	C2-N1-C1'	-7.78	110.24	118.80
25	CA	754	U	C5-C4-O4	7.78	130.57	125.90
25	CA	2571	U	N1-C2-O2	-7.78	117.36	122.80
25	CA	1989	G	N1-C6-O6	7.77	124.56	119.90
25	CA	783	A	N7-C8-N9	7.77	117.68	113.80
26	CB	47	C	N3-C2-O2	7.77	127.34	121.90
25	DA	1904	G	C8-N9-C4	-7.76	103.29	106.40
25	DA	2226	C	C6-N1-C2	7.75	123.40	120.30
1	BA	297	G	N1-C6-O6	7.75	124.55	119.90
25	CA	626	A	N1-C6-N6	7.75	123.25	118.60
25	DA	974	G	C4-N9-C1'	7.75	136.58	126.50
25	CA	726	G	N1-C6-O6	7.75	124.55	119.90
25	DA	424	G	N3-C4-N9	-7.75	121.35	126.00
25	CA	11	C	N1-C2-O2	-7.75	114.25	118.90
25	CA	634	C	C5-C4-N4	-7.75	114.78	120.20
25	CA	2331	G	N3-C4-N9	7.75	130.65	126.00
25	CA	2468	A	N1-C6-N6	7.74	123.25	118.60
25	CA	1936	A	N3-C4-N9	-7.74	121.21	127.40
25	CA	2688	G	N3-C4-N9	-7.74	121.36	126.00
25	DA	1936	A	N1-C2-N3	7.73	133.16	129.30
25	CA	2853	C	N1-C2-O2	-7.73	114.26	118.90
25	CA	1133	A	C2-N3-C4	-7.72	106.74	110.60
25	CA	2447	G	N1-C6-O6	7.72	124.53	119.90
25	CA	1231	U	N3-C2-O2	7.72	127.60	122.20
25	CA	223	A	N1-C6-N6	-7.71	113.97	118.60
25	CA	341	C	C6-N1-C2	7.71	123.39	120.30
25	CA	1325	U	N3-C4-O4	-7.71	114.00	119.40
25	CA	1711	A	N1-C6-N6	-7.71	113.97	118.60
25	DA	1780	A	N1-C6-N6	7.71	123.22	118.60
25	CA	1519	G	N1-C6-O6	-7.70	115.28	119.90
25	DA	450	G	C5-C6-O6	7.70	133.22	128.60
16	AP	51	ARG	NE-CZ-NH1	7.70	124.15	120.30
25	CA	1436	G	N1-C6-O6	-7.70	115.28	119.90
25	CA	2840	C	C6-N1-C2	7.70	123.38	120.30
25	DA	862	G	N1-C6-O6	7.69	124.51	119.90
25	CA	1913	A	N1-C6-N6	7.68	123.21	118.60
25	CA	2682	A	N1-C6-N6	7.68	123.21	118.60
25	DA	1822	C	N1-C2-O2	-7.68	114.29	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1158	C	N1-C2-O2	-7.68	114.29	118.90
25	DA	1936	A	N9-C4-C5	-7.68	102.73	105.80
25	DA	1936	A	C5-N7-C8	-7.67	100.06	103.90
1	AA	1422	G	C6-C5-N7	-7.67	125.80	130.40
25	DA	2502	G	N1-C6-O6	-7.67	115.30	119.90
25	CA	2121	G	N3-C4-C5	-7.67	124.77	128.60
25	CA	2721	A	C5-C6-N6	-7.67	117.57	123.70
25	DA	2250	G	N3-C4-N9	-7.67	121.40	126.00
25	CA	2500	U	N1-C2-O2	-7.67	117.44	122.80
1	AA	1063	C	N1-C2-O2	-7.66	114.30	118.90
25	CA	1663	G	C8-N9-C4	7.66	109.47	106.40
25	DA	1653	G	N3-C4-N9	7.66	130.59	126.00
1	BA	642	A	C8-N9-C4	7.66	108.86	105.80
25	CA	2523	G	C6-C5-N7	-7.65	125.81	130.40
1	AA	880	C	N1-C2-O2	-7.65	114.31	118.90
25	CA	336	C	N3-C2-O2	7.64	127.25	121.90
25	CA	311	A	N9-C4-C5	-7.64	102.74	105.80
1	BA	397	A	N1-C2-N3	7.64	133.12	129.30
25	CA	2799	A	N1-C6-N6	7.63	123.18	118.60
25	CA	1780	A	N1-C6-N6	7.63	123.18	118.60
25	CA	1757	A	C8-N9-C4	7.63	108.85	105.80
25	CA	2658	C	C2-N1-C1'	-7.63	110.41	118.80
25	DA	783	A	C6-C5-N7	-7.63	126.96	132.30
25	CA	1336	A	N1-C6-N6	-7.62	114.03	118.60
25	DA	378	C	C6-N1-C2	7.62	123.35	120.30
25	CA	1792	G	C8-N9-C4	7.62	109.45	106.40
25	CA	1064	C	C6-N1-C2	-7.61	117.25	120.30
25	CA	2762	C	C5-C6-N1	-7.61	117.20	121.00
25	CA	1394	U	N1-C2-N3	7.60	119.46	114.90
25	CA	93	G	C4-C5-N7	-7.60	107.76	110.80
25	DA	1838	C	C2-N1-C1'	-7.60	110.44	118.80
25	DA	2689	U	C2-N1-C1'	-7.60	108.58	117.70
25	DA	1164	C	N3-C2-O2	7.59	127.22	121.90
25	CA	783	A	C5-C6-N6	-7.59	117.62	123.70
25	DA	1954	G	C5-C6-O6	-7.59	124.05	128.60
25	DA	2461	A	C5-C6-N1	-7.59	113.91	117.70
25	DA	1311	G	C4-C5-N7	7.59	113.83	110.80
25	CA	1452	G	C5-C6-N1	-7.59	107.71	111.50
25	DA	801	G	C4-C5-N7	-7.58	107.77	110.80
25	CA	315	G	N1-C6-O6	7.58	124.45	119.90
25	DA	757	G	N3-C4-C5	7.57	132.39	128.60
25	CA	2271	G	N3-C4-N9	7.56	130.54	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	208	C	C2-N1-C1'	-7.55	110.49	118.80
25	CA	348	A	C8-N9-C4	7.55	108.82	105.80
25	DA	475	C	C6-N1-C2	-7.55	117.28	120.30
25	DA	784	G	N9-C4-C5	-7.55	102.38	105.40
1	BA	297	G	C2-N3-C4	-7.54	108.13	111.90
25	DA	660	C	C5-C6-N1	-7.54	117.23	121.00
25	CA	624	C	N1-C2-O2	-7.54	114.38	118.90
25	CA	2626	C	N1-C2-O2	-7.54	114.38	118.90
25	DA	2347	C	C2-N1-C1'	-7.54	110.51	118.80
1	BA	283	U	C6-N1-C2	-7.54	116.48	121.00
25	CA	1683	U	N1-C2-O2	-7.54	117.52	122.80
25	DA	1649	G	C5-C6-O6	7.54	133.12	128.60
25	DA	671	C	N1-C2-O2	-7.53	114.38	118.90
25	CA	1142	A	C6-N1-C2	7.53	123.12	118.60
25	DA	822	G	N1-C6-O6	7.52	124.41	119.90
25	DA	2540	C	C2-N1-C1'	-7.52	110.53	118.80
25	CA	2071	A	C2-N3-C4	-7.52	106.84	110.60
25	CA	311	A	N1-C6-N6	7.52	123.11	118.60
25	DA	757	G	C4-N9-C1'	-7.52	116.73	126.50
25	DA	2848	G	N9-C4-C5	7.52	108.41	105.40
25	CA	2447	G	C8-N9-C4	7.51	109.41	106.40
25	DA	765	C	N3-C4-C5	7.51	124.91	121.90
25	CA	1779	U	C2-N1-C1'	-7.51	108.69	117.70
25	CA	1780	A	C5-C6-N6	-7.51	117.69	123.70
25	CA	2866	U	C5-C4-O4	7.51	130.41	125.90
25	DA	1828	G	C5-C6-O6	7.51	133.11	128.60
1	BA	551	U	N1-C2-O2	-7.51	117.55	122.80
25	DA	1135	C	C6-N1-C2	7.50	123.30	120.30
25	DA	1340	U	C2-N1-C1'	7.50	126.70	117.70
25	CA	1563	U	C2-N1-C1'	-7.50	108.70	117.70
25	CA	1426	G	C6-C5-N7	-7.50	125.90	130.40
25	CA	1876	A	N1-C6-N6	-7.50	114.10	118.60
25	CA	124	G	C8-N9-C4	7.49	109.40	106.40
25	CA	210	C	C6-N1-C2	7.49	123.30	120.30
25	CA	1362	C	N1-C2-O2	-7.49	114.41	118.90
25	CA	2022	U	C5-C4-O4	-7.49	121.41	125.90
25	CA	2893	A	N1-C2-N3	7.49	133.04	129.30
25	DA	1649	G	N9-C4-C5	7.49	108.40	105.40
25	CA	458	G	N1-C6-O6	-7.49	115.41	119.90
1	AA	679	C	N1-C2-O2	7.48	123.39	118.90
25	CA	1045	C	N1-C2-O2	-7.48	114.41	118.90
25	CA	334	C	N1-C2-O2	-7.48	114.41	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	503	C	N1-C2-O2	-7.48	114.41	118.90
25	CA	2678	C	C6-N1-C2	7.47	123.29	120.30
25	DA	1351	C	C6-N1-C2	7.47	123.29	120.30
1	BA	1226	C	C6-N1-C2	-7.47	117.31	120.30
1	AA	971	G	N3-C4-N9	-7.47	121.52	126.00
25	CA	97	C	N1-C2-O2	-7.47	114.42	118.90
1	BA	677	U	N1-C2-O2	7.46	128.02	122.80
25	CA	2803	G	N1-C6-O6	-7.46	115.42	119.90
25	DA	1950	G	C4-C5-N7	-7.46	107.82	110.80
25	CA	584	C	C6-N1-C2	7.46	123.28	120.30
25	CA	2884	U	C5-C4-O4	7.46	130.38	125.90
25	DA	2226	C	C2-N1-C1'	-7.46	110.60	118.80
25	DA	66	C	N1-C2-O2	-7.46	114.43	118.90
25	DA	682	G	C8-N9-C4	7.45	109.38	106.40
1	AA	1475	G	N1-C6-O6	7.45	124.37	119.90
25	CA	1426	G	C5-C6-O6	-7.45	124.13	128.60
1	BA	1482	G	N3-C4-C5	-7.45	124.88	128.60
25	CA	2227	A	N1-C6-N6	-7.45	114.13	118.60
25	DA	672	C	N1-C2-O2	-7.44	114.43	118.90
25	CA	208	C	N1-C2-O2	-7.44	114.44	118.90
1	BA	705	G	C5-C6-O6	7.44	133.06	128.60
25	DA	1970	A	C8-N9-C4	-7.44	102.83	105.80
25	CA	1209	U	N1-C2-O2	-7.43	117.59	122.80
25	CA	1315	C	C2-N3-C4	-7.43	116.18	119.90
25	CA	111	A	C2-N3-C4	-7.43	106.88	110.60
25	DA	1964	G	N3-C4-C5	-7.43	124.89	128.60
25	CA	2426	A	C8-N9-C4	-7.42	102.83	105.80
25	CA	1108	U	N1-C2-O2	-7.42	117.61	122.80
25	CA	2541	A	C8-N9-C4	7.41	108.77	105.80
25	DA	1649	G	C8-N9-C4	-7.41	103.44	106.40
25	CA	2155	U	N3-C2-O2	-7.41	117.02	122.20
25	CA	2591	C	N1-C2-O2	-7.40	114.46	118.90
25	CA	2067	G	N1-C6-O6	7.40	124.34	119.90
25	CA	2534	A	N9-C4-C5	-7.39	102.84	105.80
25	CA	1989	G	N9-C4-C5	-7.39	102.44	105.40
25	DA	442	G	N1-C6-O6	-7.39	115.47	119.90
25	CA	1640	A	C8-N9-C4	-7.39	102.84	105.80
25	CA	1727	C	C6-N1-C2	-7.39	117.34	120.30
1	BA	823	C	N1-C2-O2	-7.38	114.47	118.90
25	CA	1758	U	N1-C2-N3	7.37	119.33	114.90
25	CA	974	G	C6-C5-N7	-7.37	125.98	130.40
25	CA	2375	G	C5-C6-O6	-7.36	124.18	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2067	G	N9-C4-C5	-7.36	102.45	105.40
25	CA	555	G	C4-N9-C1'	7.36	136.06	126.50
25	DA	1163	G	C5-C6-O6	-7.35	124.19	128.60
25	CA	2534	A	N1-C6-N6	7.35	123.01	118.60
25	DA	967	U	C5-C4-O4	7.35	130.31	125.90
25	CA	971	G	C2-N3-C4	7.35	115.57	111.90
25	DA	308	G	N3-C4-N9	7.35	130.41	126.00
25	CA	1950	G	C5-C6-O6	-7.34	124.19	128.60
25	CA	2068	U	N1-C2-O2	-7.34	117.66	122.80
25	DA	1239	G	N1-C6-O6	-7.34	115.49	119.90
25	DA	1681	G	N9-C4-C5	-7.34	102.46	105.40
25	CA	2351	G	N1-C6-O6	7.33	124.30	119.90
25	DA	801	G	N1-C6-O6	-7.33	115.50	119.90
25	CA	1043	C	C6-N1-C2	7.32	123.23	120.30
25	DA	2885	G	N1-C6-O6	-7.32	115.51	119.90
25	DA	394	C	N3-C2-O2	7.32	127.02	121.90
25	CA	901	C	C6-N1-C2	7.32	123.23	120.30
25	CA	555	G	N3-C2-N2	7.32	125.02	119.90
25	DA	1192	G	C8-N9-C4	7.31	109.33	106.40
25	DA	823	C	N3-C4-N4	7.31	123.12	118.00
25	CA	425	G	N1-C6-O6	7.31	124.28	119.90
25	CA	2896	C	C6-N1-C2	-7.31	117.38	120.30
25	CA	213	A	C8-N9-C4	7.30	108.72	105.80
25	CA	2813	A	C8-N9-C4	7.30	108.72	105.80
1	AA	1067	A	N1-C6-N6	-7.29	114.22	118.60
25	DA	1311	G	C5-C6-O6	-7.29	124.23	128.60
25	DA	1833	C	N1-C2-O2	-7.29	114.53	118.90
25	DA	243	U	C2-N1-C1'	-7.29	108.95	117.70
25	DA	379	G	N1-C6-O6	7.29	124.27	119.90
25	DA	801	G	C6-C5-N7	7.28	134.77	130.40
25	DA	809	G	C4-C5-N7	-7.28	107.89	110.80
25	CA	2375	G	C8-N9-C1'	7.28	136.46	127.00
25	CA	1595	C	N1-C2-O2	-7.28	114.53	118.90
25	CA	470	A	C2-N3-C4	-7.27	106.96	110.60
25	DA	1770	G	N1-C6-O6	7.27	124.26	119.90
1	BA	876	C	C6-N1-C2	7.27	123.21	120.30
25	CA	1779	U	C6-N1-C1'	7.27	131.38	121.20
25	DA	2518	A	C8-N9-C4	-7.27	102.89	105.80
25	CA	1835	G	C5-C6-O6	-7.27	124.24	128.60
25	DA	786	C	C6-N1-C2	7.27	123.21	120.30
1	AA	971	G	C8-N9-C1'	7.26	136.44	127.00
25	CA	1608	A	N1-C6-N6	7.26	122.96	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1691	C	N1-C2-O2	-7.26	114.54	118.90
25	CA	2688	G	N9-C4-C5	7.26	108.31	105.40
25	CA	2347	C	C2-N1-C1'	-7.26	110.81	118.80
25	DA	396	G	C8-N9-C4	7.26	109.30	106.40
25	CA	2598	A	N1-C6-N6	-7.26	114.25	118.60
1	AA	245	U	C6-N1-C1'	7.25	131.35	121.20
1	AA	1422	G	C4-C5-N7	7.25	113.70	110.80
25	DA	645	C	C6-N1-C2	-7.25	117.40	120.30
1	AA	677	U	N3-C2-O2	-7.25	117.13	122.20
25	CA	1623	G	C4-C5-N7	7.25	113.70	110.80
25	CA	1833	C	N1-C2-O2	-7.25	114.55	118.90
25	DA	1786	A	N9-C4-C5	7.25	108.70	105.80
25	DA	1672	A	C4-C5-C6	7.25	120.62	117.00
25	CA	1704	C	C6-N1-C2	7.24	123.20	120.30
1	BA	488	C	C6-N1-C2	-7.24	117.40	120.30
25	CA	72	U	C2-N1-C1'	-7.24	109.01	117.70
25	DA	243	U	C5-C6-N1	-7.24	119.08	122.70
25	DA	2794	C	C6-N1-C2	-7.24	117.40	120.30
25	DA	467	G	C2-N3-C4	-7.24	108.28	111.90
25	CA	979	A	C5-C6-N6	-7.24	117.91	123.70
25	DA	2478	A	C8-N9-C4	7.24	108.69	105.80
25	DA	2518	A	C4-C5-C6	7.23	120.62	117.00
1	AA	90	C	N3-C2-O2	-7.23	116.84	121.90
25	CA	1117	C	C6-N1-C2	7.23	123.19	120.30
25	DA	467	G	C8-N9-C4	7.22	109.29	106.40
25	CA	473	G	N1-C6-O6	-7.22	115.57	119.90
25	CA	1142	A	C4-C5-C6	-7.22	113.39	117.00
1	AA	792	A	C8-N9-C4	7.22	108.69	105.80
25	CA	528	A	C4-C5-N7	7.22	114.31	110.70
25	DA	528	A	N7-C8-N9	7.22	117.41	113.80
25	DA	579	G	C4-C5-N7	-7.22	107.91	110.80
25	CA	2439	A	C8-N9-C4	7.22	108.69	105.80
25	DA	2442	C	N1-C2-O2	-7.21	114.57	118.90
25	CA	264	C	N1-C2-O2	7.21	123.23	118.90
25	CA	2551	C	N3-C2-O2	7.21	126.95	121.90
1	AA	90	C	N1-C2-O2	7.20	123.22	118.90
25	CA	1835	G	C2-N3-C4	7.20	115.50	111.90
25	CA	371	A	N1-C6-N6	-7.20	114.28	118.60
25	DA	822	G	N3-C4-N9	-7.20	121.68	126.00
1	BA	322	C	C6-N1-C2	7.19	123.18	120.30
25	CA	1904	G	N1-C6-O6	-7.19	115.58	119.90
25	DA	1333	G	C5-C6-O6	-7.19	124.28	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2250	G	N7-C8-N9	7.19	116.70	113.10
25	CA	1955	U	C2-N1-C1'	-7.19	109.07	117.70
25	DA	2619	C	C6-N1-C2	7.19	123.17	120.30
1	AA	713	G	C6-C5-N7	7.19	134.71	130.40
1	AA	297	G	N3-C4-N9	-7.18	121.69	126.00
1	BA	1520	C	N1-C2-O2	-7.18	114.59	118.90
25	CA	914	G	C8-N9-C4	7.18	109.27	106.40
51	C0	19	ASP	CB-CG-OD2	7.18	124.76	118.30
25	DA	2461	A	C2-N3-C4	-7.18	107.01	110.60
1	BA	209	U	C2-N1-C1'	7.18	126.31	117.70
1	BA	322	C	C2-N3-C4	-7.17	116.31	119.90
25	DA	562	U	N1-C2-O2	-7.17	117.78	122.80
1	BA	1504	G	C8-N9-C4	7.17	109.27	106.40
25	CA	382	A	N1-C6-N6	7.17	122.90	118.60
25	CA	1158	C	C6-N1-C2	-7.17	117.43	120.30
25	CA	2866	U	N1-C2-O2	7.17	127.81	122.80
25	CA	1977	A	C2-N3-C4	-7.16	107.02	110.60
25	CA	1007	C	N3-C2-O2	7.16	126.91	121.90
26	CB	96	G	N1-C6-O6	-7.16	115.60	119.90
1	AA	555	U	N1-C2-O2	-7.16	117.79	122.80
25	CA	129	C	N1-C2-O2	-7.16	114.61	118.90
25	CA	315	G	N9-C4-C5	-7.16	102.54	105.40
25	CA	2506	U	N3-C2-O2	-7.16	117.19	122.20
25	DA	2342	C	C6-N1-C2	-7.16	117.44	120.30
25	CA	2375	G	C4-N9-C1'	-7.15	117.21	126.50
25	DA	2636	C	C6-N1-C2	-7.15	117.44	120.30
1	AA	1481	U	C5-C4-O4	7.15	130.19	125.90
25	CA	2351	G	C4-C5-N7	7.15	113.66	110.80
25	DA	783	A	N9-C4-C5	-7.14	102.94	105.80
25	CA	2367	G	C6-C5-N7	7.14	134.68	130.40
56	DB	91	C	C6-N1-C2	7.14	123.16	120.30
26	CB	8	C	N1-C2-O2	-7.14	114.62	118.90
25	CA	1351	C	C2-N1-C1'	-7.13	110.95	118.80
25	DA	1234	U	C5-C4-O4	7.13	130.18	125.90
25	DA	2532	G	C5-C6-O6	-7.13	124.32	128.60
25	CA	624	C	C2-N1-C1'	-7.13	110.96	118.80
25	CA	1017	G	C8-N9-C4	-7.12	103.55	106.40
25	CA	1405	U	N3-C2-O2	-7.12	117.22	122.20
25	DA	636	G	N3-C4-C5	-7.11	125.04	128.60
25	CA	752	A	C8-N9-C4	-7.11	102.95	105.80
25	CA	2359	C	N1-C2-O2	-7.11	114.63	118.90
25	DA	2055	C	N1-C2-O2	-7.11	114.63	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	16	U	N1-C2-O2	7.11	127.78	122.80
25	CA	1360	G	C5-C6-O6	7.11	132.87	128.60
25	CA	1245	G	N1-C6-O6	-7.10	115.64	119.90
26	CB	15	A	N1-C6-N6	7.10	122.86	118.60
1	AA	48	C	C6-N1-C2	7.10	123.14	120.30
25	DA	2638	G	C5-C6-O6	7.10	132.86	128.60
25	CA	1226	A	C2-N3-C4	7.10	114.15	110.60
25	DA	585	G	N9-C4-C5	7.10	108.24	105.40
25	CA	783	A	N9-C4-C5	-7.10	102.96	105.80
25	DA	789	A	C8-N9-C4	7.10	108.64	105.80
25	CA	758	C	C6-N1-C2	-7.10	117.46	120.30
1	AA	760	G	N1-C2-N2	-7.09	109.81	116.20
25	CA	74	A	C8-N9-C4	-7.09	102.96	105.80
25	CA	801	G	C4-C5-N7	-7.09	107.96	110.80
25	CA	389	G	C8-N9-C4	7.09	109.24	106.40
25	CA	409	G	C2-N3-C4	-7.09	108.36	111.90
25	CA	1971	U	N3-C4-O4	7.09	124.36	119.40
1	BA	530	G	C4-C5-N7	7.09	113.64	110.80
25	CA	982	C	C2-N3-C4	-7.08	116.36	119.90
25	DA	1163	G	C4-N9-C1'	-7.08	117.29	126.50
25	CA	1762	A	N1-C6-N6	7.08	122.85	118.60
25	CA	1231	U	C6-N1-C2	7.08	125.25	121.00
25	DA	955	U	C6-N1-C2	-7.08	116.75	121.00
25	DA	1261	C	N1-C2-O2	-7.08	114.66	118.90
25	CA	942	G	N1-C6-O6	-7.07	115.66	119.90
25	CA	1340	U	C2-N1-C1'	-7.07	109.21	117.70
25	CA	509	C	C2-N3-C4	-7.07	116.36	119.90
25	CA	2055	C	C6-N1-C2	7.07	123.13	120.30
26	CB	71	C	N1-C2-O2	-7.07	114.66	118.90
1	BA	882	C	C6-N1-C2	7.07	123.13	120.30
25	CA	428	A	C8-N9-C4	7.07	108.63	105.80
1	AA	71	A	C5-C6-N6	-7.06	118.05	123.70
25	CA	2721	A	N1-C6-N6	7.06	122.84	118.60
25	DA	1036	G	N3-C4-C5	7.06	132.13	128.60
25	CA	208	C	C5-C6-N1	-7.06	117.47	121.00
25	CA	1600	C	C6-N1-C2	7.06	123.12	120.30
25	CA	1780	A	C4-C5-N7	7.06	114.23	110.70
25	CA	1040	A	C8-N9-C4	7.06	108.62	105.80
26	CB	19	C	C5-C6-N1	-7.06	117.47	121.00
25	DA	525	U	C5-C4-O4	7.06	130.13	125.90
1	AA	1414	U	N1-C2-O2	7.05	127.74	122.80
25	CA	1819	A	N1-C6-N6	-7.05	114.37	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1527	U	N1-C2-N3	7.05	119.13	114.90
25	CA	1519	G	N9-C4-C5	7.05	108.22	105.40
25	CA	1205	A	N1-C6-N6	7.05	122.83	118.60
25	DA	2677	G	N1-C6-O6	-7.05	115.67	119.90
25	DA	1904	G	N3-C4-C5	-7.05	125.08	128.60
1	AA	734	G	C6-C5-N7	-7.05	126.17	130.40
25	CA	152	A	C8-N9-C4	7.05	108.62	105.80
25	CA	264	C	N3-C2-O2	-7.05	116.97	121.90
25	CA	2286	G	N1-C6-O6	7.04	124.13	119.90
25	DA	2069	G	N3-C4-C5	7.04	132.12	128.60
25	CA	2720	U	C6-N1-C2	-7.04	116.78	121.00
25	DA	1037	G	N3-C4-C5	7.04	132.12	128.60
25	CA	2266	A	C8-N9-C4	-7.04	102.98	105.80
25	CA	564	C	N3-C2-O2	-7.04	116.97	121.90
25	CA	2021	C	N1-C2-O2	-7.04	114.68	118.90
25	CA	2820	A	N3-C4-C5	7.04	131.72	126.80
25	CA	1936	A	N3-C4-C5	7.03	131.72	126.80
25	CA	2141	G	N3-C4-C5	-7.03	125.08	128.60
25	CA	2135	A	N1-C6-N6	7.03	122.82	118.60
1	AA	1408	A	C2-N3-C4	-7.03	107.09	110.60
25	DA	2519	U	C5-C4-O4	-7.02	121.69	125.90
25	CA	854	C	C5-C4-N4	-7.02	115.29	120.20
25	CA	1018	U	N3-C2-O2	7.02	127.11	122.20
25	DA	1360	G	N3-C4-N9	-7.02	121.79	126.00
25	DA	1947	C	C6-N1-C2	7.02	123.11	120.30
25	CA	116	C	N1-C2-O2	-7.02	114.69	118.90
25	CA	655	A	N9-C4-C5	7.02	108.61	105.80
25	CA	2745	C	C2-N3-C4	-7.02	116.39	119.90
25	DA	950	G	N1-C6-O6	7.02	124.11	119.90
25	DA	2503	A	N3-C4-N9	7.02	133.01	127.40
25	DA	587	C	N1-C2-O2	-7.02	114.69	118.90
25	DA	1005	C	C6-N1-C2	7.02	123.11	120.30
25	CA	2275	C	N1-C2-N3	7.01	124.11	119.20
25	CA	2831	G	N3-C4-C5	-7.01	125.09	128.60
25	CA	2689	U	C2-N3-C4	-7.01	122.79	127.00
1	AA	108	G	C8-N9-C4	-7.01	103.60	106.40
1	BA	741	G	N1-C6-O6	7.01	124.10	119.90
26	CB	51	G	C4-C5-N7	7.01	113.60	110.80
25	DA	208	C	C6-N1-C2	7.01	123.10	120.30
25	DA	911	A	N1-C6-N6	7.01	122.80	118.60
25	CA	1393	A	N9-C4-C5	7.00	108.60	105.80
25	CA	1793	C	C5-C6-N1	-7.00	117.50	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	786	C	C2-N1-C1'	-7.00	111.10	118.80
25	CA	2629	U	C5-C4-O4	-7.00	121.70	125.90
25	CA	583	G	C8-N9-C4	7.00	109.20	106.40
25	DA	2874	C	C2-N1-C1'	-7.00	111.10	118.80
25	DA	979	A	C5-C6-N6	7.00	129.30	123.70
25	DA	1681	G	C5-C6-O6	-6.99	124.40	128.60
1	AA	334	C	C6-N1-C2	6.99	123.10	120.30
25	CA	2448	A	N1-C6-N6	6.99	122.80	118.60
1	BA	926	G	C4-C5-N7	-6.99	108.00	110.80
25	CA	1465	G	N1-C6-O6	-6.99	115.71	119.90
25	DA	488	G	N9-C4-C5	-6.99	102.60	105.40
25	CA	922	C	N1-C2-O2	-6.99	114.71	118.90
25	DA	679	C	C6-N1-C2	-6.98	117.51	120.30
25	DA	783	A	N3-C4-C5	6.98	131.69	126.80
1	AA	283	U	N3-C2-O2	-6.98	117.31	122.20
25	CA	1475	G	N3-C4-N9	-6.98	121.81	126.00
25	CA	2394	C	N1-C2-O2	-6.98	114.71	118.90
25	CA	332	A	C5-C6-N6	6.98	129.28	123.70
25	CA	2204	G	C6-C5-N7	-6.97	126.22	130.40
25	CA	2803	G	C4-C5-N7	-6.97	108.01	110.80
25	CA	567	U	N1-C2-N3	6.97	119.08	114.90
25	CA	2872	A	N9-C4-C5	6.97	108.59	105.80
1	AA	807	A	N1-C6-N6	-6.97	114.42	118.60
25	CA	2069	G	N3-C4-N9	-6.97	121.82	126.00
25	CA	1521	G	N3-C4-N9	6.96	130.18	126.00
25	CA	2068	U	N3-C2-O2	6.96	127.07	122.20
1	BA	713	G	C5-C6-O6	6.96	132.78	128.60
25	DA	216	A	N1-C6-N6	-6.96	114.42	118.60
25	CA	974	G	N1-C6-O6	6.96	124.08	119.90
25	DA	1799	G	C5-C6-O6	6.96	132.78	128.60
1	BA	1515	G	N1-C6-O6	6.96	124.07	119.90
25	DA	2286	G	N3-C4-N9	-6.96	121.83	126.00
25	CA	806	C	N1-C2-O2	6.96	123.07	118.90
25	DA	1569	A	C8-N9-C4	6.95	108.58	105.80
25	CA	813	U	N1-C2-O2	-6.95	117.93	122.80
25	DA	2686	G	N9-C4-C5	6.95	108.18	105.40
25	CA	1344	U	N3-C2-O2	-6.95	117.34	122.20
25	DA	1997	C	C5-C6-N1	-6.95	117.53	121.00
25	CA	2471	A	C8-N9-C4	6.94	108.58	105.80
25	DA	1019	U	N3-C2-O2	-6.94	117.34	122.20
25	CA	2347	C	C6-N1-C1'	6.94	129.12	120.80
25	CA	2760	C	C5-C6-N1	-6.94	117.53	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	13	A	C4-C5-C6	6.93	120.47	117.00
25	CA	1661	G	N1-C6-O6	-6.93	115.74	119.90
25	CA	2320	U	C2-N1-C1'	-6.93	109.38	117.70
25	CA	550	C	C6-N1-C1'	-6.93	112.48	120.80
25	CA	1971	U	N3-C2-O2	6.93	127.05	122.20
25	CA	2385	C	C5-C4-N4	-6.93	115.35	120.20
1	AA	453	G	N3-C4-N9	6.93	130.16	126.00
1	BA	971	G	N3-C4-N9	6.93	130.16	126.00
25	DA	908	C	N1-C2-O2	-6.93	114.74	118.90
25	DA	1666	G	N3-C4-N9	-6.93	121.84	126.00
25	DA	324	A	C8-N9-C4	6.92	108.57	105.80
1	BA	1525	G	C8-N9-C4	6.92	109.17	106.40
25	CA	315	G	C4-C5-N7	6.92	113.57	110.80
25	CA	2084	C	C2-N3-C4	-6.92	116.44	119.90
25	CA	1577	C	N1-C2-O2	-6.91	114.75	118.90
25	DA	661	A	C6-N1-C2	-6.91	114.45	118.60
25	DA	2514	U	N1-C2-N3	6.91	119.05	114.90
25	CA	2658	C	C6-N1-C2	6.91	123.06	120.30
25	CA	1340	U	N1-C2-O2	-6.91	117.96	122.80
25	CA	923	G	C2-N3-C4	-6.91	108.45	111.90
25	DA	1788	C	N1-C2-O2	-6.91	114.76	118.90
25	DA	2046	G	N9-C4-C5	-6.90	102.64	105.40
25	CA	393	C	C6-N1-C2	-6.90	117.54	120.30
25	DA	213	A	C8-N9-C4	6.90	108.56	105.80
25	DA	1164	C	C6-N1-C1'	6.90	129.08	120.80
25	CA	790	U	N1-C2-O2	-6.90	117.97	122.80
25	CA	2551	C	C6-N1-C2	6.90	123.06	120.30
25	DA	2809	A	N1-C6-N6	6.90	122.74	118.60
25	CA	2458	G	C8-N9-C4	-6.89	103.64	106.40
25	DA	2250	G	C8-N9-C4	-6.89	103.64	106.40
25	DA	1779	U	C5-C6-N1	-6.89	119.25	122.70
25	DA	2782	G	C5-C6-O6	-6.89	124.46	128.60
25	CA	2725	A	C2-N3-C4	-6.89	107.16	110.60
25	DA	2540	C	C6-N1-C1'	6.88	129.06	120.80
1	BA	297	G	C8-N9-C4	6.88	109.15	106.40
1	BA	771	G	N9-C4-C5	6.88	108.15	105.40
25	CA	993	G	C5-C6-N1	6.88	114.94	111.50
25	DA	2503	A	C5-C6-N6	-6.88	118.20	123.70
25	DA	2046	G	C5-C6-O6	-6.87	124.48	128.60
25	CA	1819	A	N9-C4-C5	6.87	108.55	105.80
25	CA	2320	U	N3-C4-O4	-6.87	114.59	119.40
1	AA	707	U	C5-C4-O4	-6.87	121.78	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1252	G	N3-C2-N2	-6.87	115.09	119.90
25	DA	1681	G	C6-C5-N7	-6.87	126.28	130.40
1	AA	713	G	C4-C5-N7	-6.86	108.05	110.80
25	CA	578	G	C8-N9-C4	6.86	109.14	106.40
25	CA	1988	G	C6-C5-N7	-6.86	126.28	130.40
1	AA	869	G	N1-C6-O6	6.86	124.02	119.90
1	BA	586	C	N1-C2-O2	-6.86	114.78	118.90
25	CA	1989	G	N3-C4-N9	6.86	130.12	126.00
25	DA	2049	G	C4-N9-C1'	6.86	135.42	126.50
25	CA	2037	A	N1-C6-N6	-6.86	114.48	118.60
25	CA	2711	A	C8-N9-C4	6.86	108.54	105.80
25	CA	2265	U	N1-C2-O2	-6.86	118.00	122.80
25	DA	1967	C	N1-C2-O2	-6.86	114.79	118.90
25	CA	2553	G	N3-C2-N2	6.86	124.70	119.90
25	DA	22	C	N1-C2-O2	6.86	123.01	118.90
25	CA	2505	G	N3-C4-N9	-6.85	121.89	126.00
25	CA	578	G	C5-C6-N1	6.85	114.92	111.50
25	CA	830	G	N1-C6-O6	-6.85	115.79	119.90
25	CA	2790	U	N3-C2-O2	-6.85	117.41	122.20
25	CA	483	A	N7-C8-N9	-6.84	110.38	113.80
25	CA	1892	C	N3-C2-O2	6.84	126.69	121.90
25	DA	2323	G	N3-C4-C5	-6.84	125.18	128.60
25	CA	226	A	N1-C6-N6	6.84	122.70	118.60
25	CA	1501	G	N3-C4-C5	6.84	132.02	128.60
1	AA	1469	C	C6-N1-C2	6.84	123.03	120.30
25	CA	1521	G	C8-N9-C1'	-6.84	118.11	127.00
1	BA	771	G	N1-C6-O6	-6.83	115.80	119.90
25	CA	829	A	C8-N9-C4	6.83	108.53	105.80
25	CA	1001	A	C8-N9-C4	6.83	108.53	105.80
25	DA	1135	C	N1-C2-O2	-6.83	114.80	118.90
1	BA	963	G	N1-C6-O6	-6.83	115.80	119.90
25	CA	1587	G	N3-C4-C5	-6.83	125.19	128.60
25	CA	960	A	N9-C4-C5	6.83	108.53	105.80
1	AA	1422	G	N1-C6-O6	6.82	123.99	119.90
25	CA	784	G	N3-C4-C5	-6.82	125.19	128.60
25	DA	1002	G	N3-C2-N2	-6.82	115.13	119.90
25	CA	210	C	N1-C2-O2	-6.82	114.81	118.90
25	CA	2888	C	C2-N1-C1'	6.82	126.30	118.80
25	CA	2087	G	C5-C6-O6	-6.81	124.51	128.60
25	CA	77	G	N9-C4-C5	6.81	108.12	105.40
25	CA	1051	G	C4-N9-C1'	6.81	135.35	126.50
25	CA	2121	G	N3-C4-N9	6.81	130.09	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1030	C	C6-N1-C2	6.81	123.02	120.30
25	DA	2626	C	C5-C6-N1	-6.81	117.60	121.00
25	CA	1378	A	C5-C6-N6	6.81	129.15	123.70
25	CA	1764	C	N1-C2-O2	-6.80	114.82	118.90
25	CA	2649	C	N1-C2-O2	-6.80	114.82	118.90
25	CA	1064	C	C2-N1-C1'	6.80	126.28	118.80
25	DA	443	A	C8-N9-C4	-6.80	103.08	105.80
1	AA	575	G	C4-C5-N7	-6.80	108.08	110.80
25	CA	2462	C	N3-C2-O2	6.80	126.66	121.90
25	CA	1301	A	C5-C6-N6	-6.80	118.26	123.70
25	CA	2251	G	C5-C6-O6	-6.80	124.52	128.60
25	CA	2642	G	N1-C6-O6	-6.80	115.82	119.90
1	BA	677	U	C5-C6-N1	6.79	126.10	122.70
25	CA	2733	A	N9-C4-C5	6.79	108.52	105.80
25	CA	1209	U	C2-N1-C1'	-6.79	109.55	117.70
25	CA	1425	G	C8-N9-C4	6.79	109.12	106.40
1	AA	859	G	N3-C4-N9	6.79	130.07	126.00
1	AA	940	C	N3-C4-N4	6.79	122.75	118.00
25	DA	380	G	C5-C6-O6	-6.79	124.53	128.60
25	DA	831	G	N3-C2-N2	6.79	124.65	119.90
25	CA	1758	U	C5-C6-N1	-6.79	119.31	122.70
25	CA	823	C	N1-C2-O2	-6.79	114.83	118.90
25	CA	1817	G	N1-C6-O6	-6.79	115.83	119.90
25	CA	2706	A	C5-C6-N1	-6.79	114.31	117.70
6	BF	86	ARG	NE-CZ-NH1	6.79	123.69	120.30
25	DA	1119	U	C6-N1-C2	6.79	125.07	121.00
25	DA	2006	C	N3-C4-N4	6.79	122.75	118.00
25	CA	315	G	C6-C5-N7	-6.78	126.33	130.40
25	CA	473	G	C5-C6-O6	6.78	132.67	128.60
25	CA	1404	C	C6-N1-C2	6.78	123.01	120.30
25	CA	2367	G	N1-C6-O6	-6.78	115.83	119.90
25	CA	1797	G	C2-N3-C4	-6.78	108.51	111.90
25	DA	2246	G	C5-C6-O6	-6.78	124.53	128.60
25	CA	774	G	N1-C6-O6	-6.78	115.83	119.90
25	DA	2070	A	C2-N3-C4	-6.78	107.21	110.60
1	AA	90	C	C6-N1-C2	-6.77	117.59	120.30
1	AA	686	U	C2-N1-C1'	-6.77	109.57	117.70
1	BA	117	G	N3-C4-C5	-6.77	125.22	128.60
25	CA	1769	U	C2-N1-C1'	-6.77	109.58	117.70
25	CA	2059	A	N9-C4-C5	-6.77	103.09	105.80
25	CA	1463	C	N3-C2-O2	6.77	126.64	121.90
25	DA	1646	C	C6-N1-C1'	6.77	128.92	120.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1136	G	C8-N9-C4	6.77	109.11	106.40
1	BA	359	G	C5-C6-O6	-6.76	124.54	128.60
25	DA	2012	G	N9-C4-C5	-6.76	102.69	105.40
25	CA	2847	U	C5-C4-O4	6.76	129.96	125.90
25	CA	2751	G	N9-C4-C5	6.76	108.10	105.40
25	DA	985	C	C2-N1-C1'	6.76	126.23	118.80
25	CA	2090	A	C2-N3-C4	6.75	113.98	110.60
25	CA	1307	A	C8-N9-C4	-6.75	103.10	105.80
25	CA	1572	A	C8-N9-C4	-6.75	103.10	105.80
25	DA	243	U	N3-C4-O4	-6.75	114.67	119.40
25	DA	2588	G	C2-N3-C4	-6.75	108.52	111.90
25	DA	2848	G	C5-C6-O6	6.75	132.65	128.60
22	BV	74	C	C2-N1-C1'	6.75	126.23	118.80
25	DA	1666	G	N3-C4-C5	6.75	131.98	128.60
25	CA	1051	G	C8-N9-C1'	-6.75	118.22	127.00
25	DA	685	A	N1-C6-N6	6.75	122.65	118.60
25	DA	1666	G	C4-N9-C1'	-6.75	117.73	126.50
25	CA	1767	G	C8-N9-C4	6.74	109.10	106.40
25	CA	2225	A	N1-C6-N6	6.74	122.65	118.60
1	BA	705	G	N1-C6-O6	-6.74	115.86	119.90
25	CA	550	C	C5-C6-N1	6.74	124.37	121.00
25	CA	1650	A	N1-C6-N6	6.74	122.64	118.60
25	DA	2610	C	N1-C2-N3	6.74	123.92	119.20
25	DA	2811	G	C8-N9-C4	6.74	109.10	106.40
1	AA	351	G	N7-C8-N9	6.74	116.47	113.10
25	CA	205	G	N9-C4-C5	6.74	108.10	105.40
25	CA	818	G	C6-C5-N7	-6.74	126.36	130.40
25	CA	2523	G	N1-C6-O6	6.74	123.94	119.90
25	DA	1263	U	C6-N1-C2	-6.74	116.96	121.00
25	DA	2018	G	C8-N9-C4	6.74	109.09	106.40
25	CA	1404	C	C2-N1-C1'	-6.73	111.39	118.80
1	BA	428	G	C4-N9-C1'	-6.73	117.75	126.50
25	CA	2598	A	N3-C4-N9	-6.73	122.01	127.40
25	DA	180	G	C6-C5-N7	6.73	134.44	130.40
25	DA	967	U	C6-N1-C1'	6.73	130.62	121.20
25	DA	2619	C	N1-C2-O2	-6.73	114.86	118.90
1	AA	1499	A	N7-C8-N9	-6.72	110.44	113.80
25	CA	1006	C	N1-C2-O2	-6.72	114.87	118.90
25	DA	2532	G	C6-C5-N7	-6.72	126.37	130.40
25	DA	1452	G	C4-C5-N7	6.72	113.49	110.80
25	DA	2640	G	C8-N9-C4	6.72	109.09	106.40
25	CA	194	G	C8-N9-C4	6.72	109.09	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1295	C	N1-C2-O2	-6.72	114.87	118.90
25	DA	2811	G	N3-C4-N9	-6.71	121.97	126.00
25	DA	2046	G	N1-C6-O6	6.71	123.93	119.90
25	CA	273	G	C4-N9-C1'	-6.71	117.77	126.50
25	CA	1307	A	N9-C4-C5	6.71	108.48	105.80
25	DA	1792	G	N3-C4-N9	-6.71	121.97	126.00
56	DB	76	G	C4-C5-N7	-6.71	108.11	110.80
25	DA	2012	G	C8-N9-C4	6.71	109.08	106.40
1	BA	378	G	N3-C2-N2	6.71	124.60	119.90
1	BA	1127	G	N3-C4-N9	6.71	130.03	126.00
1	BA	563	A	C5-N7-C8	-6.71	100.55	103.90
25	DA	1952	A	C5-C6-N1	6.71	121.05	117.70
25	CA	782	A	N1-C6-N6	6.71	122.62	118.60
25	CA	2091	C	N1-C2-O2	-6.70	114.88	118.90
25	DA	453	A	C8-N9-C4	6.70	108.48	105.80
25	CA	2155	U	N1-C2-O2	6.70	127.49	122.80
25	DA	2049	G	C5-C6-O6	-6.70	124.58	128.60
25	CA	90	U	C5-C4-O4	6.70	129.92	125.90
25	DA	2466	C	N3-C2-O2	6.70	126.59	121.90
56	DB	74	U	N3-C4-O4	-6.70	114.71	119.40
25	DA	1142	A	N3-C4-C5	6.69	131.49	126.80
25	CA	2232	C	N3-C2-O2	6.69	126.58	121.90
25	CA	2534	A	C8-N9-C4	6.69	108.48	105.80
1	BA	357	G	C8-N9-C4	6.69	109.08	106.40
25	CA	1158	C	N1-C2-N3	6.69	123.88	119.20
1	AA	12	U	N1-C2-N3	6.69	118.91	114.90
1	AA	686	U	C6-N1-C1'	6.69	130.56	121.20
25	CA	2523	G	C4-C5-N7	6.69	113.47	110.80
25	CA	2553	G	N3-C4-C5	-6.69	125.26	128.60
25	DA	375	G	C8-N9-C4	6.69	109.08	106.40
25	CA	666	A	N1-C6-N6	-6.69	114.59	118.60
25	CA	2785	C	N1-C2-O2	-6.69	114.89	118.90
25	CA	2511	U	N1-C2-O2	-6.68	118.12	122.80
26	CB	92	C	N1-C2-O2	-6.68	114.89	118.90
25	DA	2250	G	N3-C4-C5	6.68	131.94	128.60
25	DA	2636	C	N3-C2-O2	-6.68	117.22	121.90
22	AV	16	U	N3-C2-O2	-6.68	117.53	122.20
1	AA	1530	G	C5-C6-N1	6.67	114.84	111.50
25	DA	1770	G	C5-C6-O6	-6.67	124.59	128.60
1	AA	351	G	C5-N7-C8	-6.67	100.96	104.30
25	CA	978	G	C8-N9-C4	6.67	109.07	106.40
25	CA	175	G	C8-N9-C4	6.67	109.07	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1278	C	C5-C6-N1	-6.67	117.66	121.00
25	DA	1770	G	C6-C5-N7	-6.67	126.40	130.40
25	DA	2606	C	C6-N1-C2	6.67	122.97	120.30
25	CA	1273	U	N1-C2-N3	6.67	118.90	114.90
25	DA	585	G	C8-N9-C4	-6.67	103.73	106.40
25	DA	2705	A	N9-C4-C5	-6.67	103.13	105.80
25	CA	1475	G	C4-N9-C1'	-6.67	117.83	126.50
1	AA	768	A	C8-N9-C4	6.67	108.47	105.80
1	BA	431	A	C8-N9-C4	6.67	108.47	105.80
56	DB	76	G	C5-C6-O6	6.67	132.60	128.60
1	BA	1482	G	C8-N9-C1'	-6.66	118.34	127.00
25	DA	1681	G	N3-C4-N9	6.66	130.00	126.00
1	BA	480	U	C6-N1-C2	6.66	125.00	121.00
1	BA	804	U	N3-C2-O2	-6.66	117.54	122.20
25	CA	2222	C	N1-C2-O2	-6.66	114.90	118.90
25	CA	1278	C	N1-C2-O2	-6.66	114.90	118.90
25	CA	1249	U	N3-C2-O2	6.66	126.86	122.20
25	DA	1002	G	N1-C2-N2	6.66	122.19	116.20
25	DA	2036	C	C6-N1-C2	-6.66	117.64	120.30
25	DA	2782	G	N1-C6-O6	6.66	123.90	119.90
1	BA	110	C	C6-N1-C1'	6.66	128.79	120.80
25	CA	2225	A	C2-N3-C4	-6.66	107.27	110.60
25	DA	488	G	C8-N9-C1'	-6.65	118.35	127.00
25	DA	1779	U	N3-C4-O4	-6.65	114.74	119.40
25	DA	2827	C	C6-N1-C2	6.65	122.96	120.30
25	DA	1838	C	C6-N1-C2	6.65	122.96	120.30
25	CA	1323	C	C6-N1-C2	6.65	122.96	120.30
25	CA	497	A	N1-C6-N6	6.64	122.59	118.60
25	CA	1125	G	N3-C4-C5	-6.64	125.28	128.60
25	CA	1319	C	N1-C2-O2	-6.64	114.91	118.90
1	BA	1480	A	N1-C6-N6	6.64	122.58	118.60
25	CA	1122	G	C4-C5-N7	-6.64	108.14	110.80
25	CA	176	A	C8-N9-C4	6.64	108.46	105.80
25	DA	1325	U	C6-N1-C2	6.64	124.98	121.00
25	DA	1270	C	C6-N1-C2	6.64	122.95	120.30
25	CA	27	G	C5-C6-N1	6.64	114.82	111.50
25	CA	1475	G	N3-C4-C5	6.64	131.92	128.60
25	DA	1164	C	C2-N1-C1'	-6.64	111.50	118.80
25	DA	1908	C	N1-C2-O2	-6.64	114.92	118.90
25	DA	1997	C	N1-C2-O2	-6.63	114.92	118.90
25	DA	10	A	C8-N9-C4	6.63	108.45	105.80
1	BA	106	C	N1-C2-O2	-6.63	114.92	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	690	G	C4-C5-N7	6.63	113.45	110.80
25	CA	2760	C	C6-N1-C2	6.63	122.95	120.30
25	CA	51	G	N1-C6-O6	-6.63	115.92	119.90
25	CA	982	C	N3-C4-C5	6.63	124.55	121.90
25	DA	1606	C	C6-N1-C2	-6.63	117.65	120.30
25	CA	1985	C	N1-C2-N3	6.63	123.84	119.20
25	DA	528	A	N3-C4-C5	6.63	131.44	126.80
1	BA	1482	G	C4-N9-C1'	6.62	135.11	126.50
25	CA	2715	C	N3-C4-C5	-6.62	119.25	121.90
25	DA	1236	G	C6-C5-N7	-6.62	126.42	130.40
25	DA	1975	G	C4-C5-N7	6.62	113.45	110.80
25	DA	2587	A	C8-N9-C4	6.62	108.45	105.80
25	CA	758	C	N1-C2-N3	6.62	123.83	119.20
25	CA	930	G	C6-C5-N7	6.62	134.37	130.40
25	DA	1325	U	N1-C2-O2	-6.62	118.17	122.80
25	CA	655	A	N1-C6-N6	-6.62	114.63	118.60
25	CA	2379	G	C8-N9-C4	6.62	109.05	106.40
25	CA	1382	G	N1-C6-O6	-6.62	115.93	119.90
25	CA	1842	G	C6-C5-N7	-6.62	126.43	130.40
25	CA	804	A	C8-N9-C4	-6.61	103.16	105.80
25	DA	992	C	C6-N1-C2	6.61	122.94	120.30
25	DA	1236	G	N1-C6-O6	6.61	123.87	119.90
25	CA	1452	G	N7-C8-N9	6.61	116.40	113.10
25	CA	184	C	N3-C4-C5	-6.61	119.26	121.90
25	CA	514	A	C8-N9-C4	6.61	108.44	105.80
25	DA	2609	U	N3-C2-O2	6.61	126.82	122.20
25	CA	83	A	C4-C5-N7	-6.60	107.40	110.70
25	CA	74	A	N9-C4-C5	6.60	108.44	105.80
25	CA	690	G	N7-C8-N9	-6.60	109.80	113.10
25	CA	2682	A	C5-C6-N6	-6.60	118.42	123.70
56	DB	78	A	C8-N9-C4	6.60	108.44	105.80
25	DA	2444	G	N1-C6-O6	-6.60	115.94	119.90
25	DA	2874	C	N1-C2-O2	-6.60	114.94	118.90
25	CA	1793	C	C2-N3-C4	-6.60	116.60	119.90
25	DA	752	A	C5-N7-C8	-6.60	100.60	103.90
25	CA	705	A	C8-N9-C4	-6.60	103.16	105.80
25	CA	2621	G	C4-C5-N7	-6.60	108.16	110.80
25	CA	249	C	N3-C2-O2	6.59	126.52	121.90
25	CA	223	A	C5-C6-N6	6.59	128.97	123.70
25	DA	519	U	N3-C2-O2	-6.59	117.58	122.20
1	BA	530	G	C6-C5-N7	-6.59	126.44	130.40
25	CA	754	U	N3-C2-O2	-6.59	117.59	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2338	C	N1-C2-O2	-6.59	114.94	118.90
25	CA	1519	G	C6-C5-N7	6.59	134.35	130.40
25	CA	2770	G	C8-N9-C4	6.59	109.04	106.40
25	DA	1323	C	C6-N1-C2	-6.59	117.66	120.30
25	CA	332	A	C6-C5-N7	6.59	136.91	132.30
25	CA	1046	A	N1-C6-N6	6.59	122.55	118.60
25	CA	2824	C	N3-C4-N4	6.59	122.61	118.00
25	DA	1616	A	N9-C4-C5	6.59	108.43	105.80
25	CA	2621	G	C8-N9-C4	-6.58	103.77	106.40
25	CA	1808	A	N9-C4-C5	-6.58	103.17	105.80
25	DA	2801	G	C8-N9-C4	-6.58	103.77	106.40
25	DA	784	G	C8-N9-C1'	-6.58	118.44	127.00
25	CA	429	A	N1-C6-N6	6.58	122.55	118.60
1	AA	1417	G	N3-C2-N2	6.58	124.50	119.90
1	BA	46	G	N3-C4-C5	6.58	131.89	128.60
25	CA	439	A	C8-N9-C4	6.58	108.43	105.80
25	CA	1277	G	N1-C6-O6	-6.58	115.95	119.90
1	AA	788	U	N1-C2-O2	-6.58	118.20	122.80
25	CA	1426	G	N3-C4-N9	6.58	129.94	126.00
25	DA	330	A	N1-C6-N6	6.57	122.54	118.60
25	CA	446	G	C4-C5-N7	6.57	113.43	110.80
1	BA	378	G	N3-C4-N9	6.57	129.94	126.00
1	BA	924	C	C6-N1-C2	6.57	122.93	120.30
25	CA	667	U	N3-C4-C5	6.57	118.54	114.60
25	CA	2696	U	N1-C2-O2	6.57	127.40	122.80
25	DA	2432	A	C4-C5-C6	6.57	120.28	117.00
25	CA	2139	U	N1-C2-O2	6.57	127.40	122.80
1	AA	90	C	C2-N1-C1'	6.56	126.02	118.80
1	BA	1406	U	C2-N1-C1'	-6.56	109.82	117.70
25	CA	784	G	C6-C5-N7	-6.56	126.46	130.40
25	CA	2841	C	C6-N1-C2	-6.56	117.67	120.30
25	DA	1155	A	N9-C4-C5	6.56	108.42	105.80
25	DA	2439	A	N1-C6-N6	6.56	122.54	118.60
25	CA	431	U	C6-N1-C2	6.56	124.94	121.00
25	CA	1256	G	C8-N9-C4	6.56	109.02	106.40
25	DA	2559	C	N3-C4-N4	-6.56	113.41	118.00
25	CA	37	C	C6-N1-C2	6.56	122.92	120.30
25	CA	1351	C	N3-C2-O2	6.56	126.49	121.90
25	DA	1435	G	N1-C6-O6	-6.56	115.97	119.90
25	DA	2426	A	N1-C6-N6	-6.56	114.67	118.60
1	BA	812	G	N1-C6-O6	6.56	123.83	119.90
25	CA	470	A	C5-N7-C8	-6.56	100.62	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	930	G	C4-N9-C1'	-6.56	117.98	126.50
1	AA	859	G	C8-N9-C1'	-6.55	118.48	127.00
25	CA	1852	U	N3-C2-O2	-6.55	117.61	122.20
25	CA	235	U	N3-C4-O4	-6.55	114.81	119.40
25	DA	1997	C	C2-N1-C1'	-6.55	111.59	118.80
25	CA	1219	U	N3-C4-O4	-6.55	114.82	119.40
25	DA	394	C	N1-C2-O2	-6.55	114.97	118.90
25	CA	1985	C	C6-N1-C1'	6.55	128.66	120.80
1	BA	110	C	C2-N1-C1'	-6.55	111.60	118.80
1	BA	896	C	C2-N3-C4	-6.55	116.63	119.90
25	CA	990	A	N1-C6-N6	-6.55	114.67	118.60
25	CA	997	G	N9-C4-C5	6.54	108.02	105.40
25	DA	2446	G	N1-C6-O6	6.54	123.83	119.90
25	CA	305	C	C6-N1-C2	6.54	122.92	120.30
1	AA	1094	G	N1-C6-O6	6.54	123.82	119.90
25	CA	975	A	N1-C6-N6	-6.54	114.68	118.60
1	AA	297	G	N3-C4-C5	6.54	131.87	128.60
25	CA	456	C	C2-N3-C4	-6.54	116.63	119.90
25	CA	807	U	N3-C4-O4	6.54	123.97	119.40
25	CA	1002	G	N1-C6-O6	-6.54	115.98	119.90
25	CA	1526	C	C6-N1-C2	6.54	122.91	120.30
25	CA	2547	A	C8-N9-C4	6.54	108.41	105.80
25	CA	997	G	N3-C2-N2	-6.53	115.33	119.90
25	CA	2824	C	N3-C4-C5	-6.53	119.29	121.90
25	CA	1612	C	N3-C4-N4	6.53	122.57	118.00
25	CA	210	C	N3-C2-O2	6.53	126.47	121.90
25	CA	2430	A	C8-N9-C4	6.53	108.41	105.80
25	DA	2606	C	N1-C2-O2	-6.53	114.98	118.90
25	DA	961	C	N1-C2-O2	-6.53	114.98	118.90
1	AA	1520	C	C5-C4-N4	-6.53	115.63	120.20
25	DA	117	G	C8-N9-C4	-6.53	103.79	106.40
1	BA	406	G	N3-C4-N9	6.52	129.91	126.00
25	CA	2469	A	C8-N9-C4	6.52	108.41	105.80
25	DA	830	G	C5-C6-N1	6.52	114.76	111.50
25	CA	1663	G	C2-N3-C4	-6.52	108.64	111.90
1	BA	1531	A	C8-N9-C4	6.52	108.41	105.80
25	CA	1889	A	N1-C6-N6	-6.52	114.69	118.60
1	AA	8	A	C8-N9-C4	6.51	108.41	105.80
25	CA	315	G	C8-N9-C4	6.51	109.01	106.40
25	DA	2282	G	N3-C4-C5	-6.51	125.34	128.60
25	CA	622	G	C5-C6-O6	-6.51	124.69	128.60
25	CA	2331	G	C6-C5-N7	-6.51	126.49	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2371	G	N9-C4-C5	6.51	108.00	105.40
1	BA	246	A	N1-C6-N6	6.51	122.50	118.60
25	CA	2633	G	N3-C4-N9	-6.51	122.09	126.00
25	CA	2295	C	N3-C2-O2	6.51	126.45	121.90
1	AA	330	C	N1-C2-O2	6.50	122.80	118.90
25	CA	1220	G	N1-C2-N2	-6.50	110.34	116.20
25	CA	994	C	N1-C2-O2	-6.50	115.00	118.90
25	CA	1026	G	N3-C4-C5	-6.50	125.35	128.60
25	CA	1602	U	N3-C4-C5	6.50	118.50	114.60
25	CA	2320	U	C6-N1-C1'	6.50	130.31	121.20
25	DA	2627	G	N1-C6-O6	-6.50	116.00	119.90
25	DA	2564	A	C4-C5-C6	6.50	120.25	117.00
26	CB	8	C	C5-C6-N1	-6.50	117.75	121.00
25	DA	1974	C	C6-N1-C2	6.50	122.90	120.30
25	CA	1946	U	C5-C4-O4	6.50	129.80	125.90
1	AA	111	G	C4-N9-C1'	-6.49	118.06	126.50
25	CA	461	C	C6-N1-C2	-6.49	117.70	120.30
25	DA	782	A	C5-C6-N6	6.49	128.89	123.70
25	DA	1311	G	N1-C6-O6	6.49	123.80	119.90
25	DA	1997	C	C6-N1-C2	6.49	122.90	120.30
25	DA	808	G	N1-C6-O6	6.49	123.79	119.90
25	DA	2825	G	C8-N9-C1'	-6.49	118.57	127.00
25	CA	2691	C	C6-N1-C2	6.49	122.89	120.30
25	DA	378	C	C2-N1-C1'	-6.48	111.67	118.80
25	DA	1655	A	C2-N3-C4	-6.48	107.36	110.60
25	DA	1903	G	N1-C6-O6	-6.48	116.01	119.90
25	DA	671	C	N3-C2-O2	6.48	126.44	121.90
25	DA	2556	C	N1-C2-O2	-6.48	115.01	118.90
1	AA	734	G	C4-C5-N7	6.48	113.39	110.80
25	CA	1662	U	N3-C4-O4	-6.48	114.87	119.40
25	DA	1125	G	C8-N9-C4	6.48	108.99	106.40
1	AA	1101	A	N3-C4-C5	-6.48	122.27	126.80
25	CA	192	C	C6-N1-C2	-6.48	117.71	120.30
25	DA	1964	G	N3-C4-N9	6.48	129.89	126.00
25	CA	129	C	N3-C2-O2	6.47	126.43	121.90
25	CA	1989	G	C6-C5-N7	-6.47	126.52	130.40
25	DA	2434	A	C5-C6-N6	-6.47	118.52	123.70
1	BA	359	G	N1-C6-O6	6.47	123.78	119.90
25	CA	919	U	N3-C2-O2	-6.47	117.67	122.20
1	BA	615	G	N3-C4-C5	-6.47	125.37	128.60
25	CA	783	A	N3-C4-C5	6.47	131.33	126.80
25	CA	1679	A	C8-N9-C4	6.47	108.39	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2069	G	C4-C5-C6	-6.47	114.92	118.80
25	DA	2677	G	C4-C5-N7	-6.47	108.21	110.80
25	DA	2709	G	C5-C6-O6	-6.46	124.72	128.60
25	DA	2049	G	C6-C5-N7	-6.46	126.52	130.40
1	BA	278	G	N3-C4-N9	-6.46	122.12	126.00
25	CA	1770	G	N3-C4-C5	-6.46	125.37	128.60
26	CB	13	G	C8-N9-C4	6.46	108.98	106.40
25	CA	154	U	N1-C2-O2	6.46	127.32	122.80
1	BA	1063	C	C6-N1-C2	6.46	122.88	120.30
25	CA	380	G	N3-C2-N2	-6.46	115.38	119.90
25	CA	62	U	N1-C2-O2	-6.45	118.28	122.80
25	CA	1555	G	N1-C2-N3	6.45	127.77	123.90
25	CA	2503	A	N1-C6-N6	6.45	122.47	118.60
25	CA	754	U	N3-C4-O4	-6.45	114.88	119.40
25	CA	1142	A	C4-C5-N7	6.45	113.92	110.70
25	CA	1242	U	N1-C2-N3	6.45	118.77	114.90
25	CA	1521	G	C6-C5-N7	-6.45	126.53	130.40
1	AA	760	G	N3-C2-N2	6.45	124.41	119.90
25	CA	1958	C	C6-N1-C2	-6.45	117.72	120.30
1	BA	61	G	N3-C4-N9	6.44	129.87	126.00
25	CA	302	C	C2-N1-C1'	-6.44	111.71	118.80
25	CA	2692	G	C8-N9-C4	6.44	108.98	106.40
1	AA	1478	U	C5-C4-O4	6.44	129.76	125.90
25	CA	792	A	C8-N9-C4	-6.44	103.22	105.80
25	CA	2820	A	C6-N1-C2	6.44	122.46	118.60
22	BV	49	C	N1-C2-O2	-6.43	115.04	118.90
1	BA	1484	C	N3-C2-O2	6.43	126.40	121.90
25	DA	783	A	C5-C6-N6	-6.43	118.55	123.70
25	DA	798	G	C5-C6-O6	6.43	132.46	128.60
25	DA	2841	C	N3-C4-C5	6.43	124.47	121.90
25	CA	1168	G	C4-C5-N7	6.43	113.37	110.80
1	BA	615	G	N1-C6-O6	-6.43	116.04	119.90
25	DA	1213	A	C5-C6-N1	-6.42	114.49	117.70
25	CA	598	U	C6-N1-C2	6.42	124.85	121.00
25	CA	2677	G	N1-C6-O6	6.42	123.75	119.90
25	CA	2010	G	N1-C6-O6	-6.42	116.05	119.90
25	CA	2428	G	C5-C6-O6	-6.42	124.75	128.60
25	DA	1298	C	N3-C2-O2	6.42	126.39	121.90
25	DA	2564	A	N7-C8-N9	6.42	117.01	113.80
25	DA	2532	G	C4-C5-N7	6.42	113.37	110.80
25	DA	1786	A	C4-C5-N7	-6.42	107.49	110.70
1	AA	351	G	C8-N9-C4	-6.41	103.83	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	735	A	C8-N9-C4	6.41	108.37	105.80
25	CA	1769	U	N1-C2-O2	-6.41	118.31	122.80
25	CA	2375	G	N3-C2-N2	-6.41	115.41	119.90
25	CA	2890	G	C6-C5-N7	-6.41	126.55	130.40
25	DA	477	A	C5-C6-N6	-6.41	118.57	123.70
1	BA	1530	G	N3-C4-C5	6.41	131.80	128.60
25	CA	1977	A	C8-N9-C4	6.41	108.36	105.80
25	CA	2278	A	C5-C6-N6	-6.41	118.58	123.70
1	BA	1492	A	C8-N9-C4	-6.40	103.24	105.80
25	CA	518	G	N3-C2-N2	-6.40	115.42	119.90
25	CA	1499	C	N1-C2-O2	-6.40	115.06	118.90
25	CA	2699	C	N3-C4-C5	6.40	124.46	121.90
25	DA	85	G	N1-C6-O6	6.40	123.74	119.90
25	CA	513	A	C6-C5-N7	-6.40	127.82	132.30
25	CA	995	C	C6-N1-C2	-6.40	117.74	120.30
25	CA	1521	G	C4-N9-C1'	6.40	134.82	126.50
1	BA	728	A	C8-N9-C4	-6.40	103.24	105.80
25	CA	1443	U	N3-C2-O2	-6.40	117.72	122.20
25	CA	2716	C	N1-C2-O2	-6.40	115.06	118.90
25	DA	2029	G	N1-C2-N2	-6.40	110.44	116.20
26	CB	71	C	N3-C2-O2	6.40	126.38	121.90
25	DA	308	G	N3-C4-C5	-6.40	125.40	128.60
25	CA	1757	A	N9-C4-C5	-6.40	103.24	105.80
25	DA	1826	G	C8-N9-C4	6.40	108.96	106.40
1	AA	738	C	N1-C2-O2	-6.39	115.06	118.90
1	BA	1521	C	C6-N1-C2	6.39	122.86	120.30
25	DA	1648	U	N3-C2-O2	6.39	126.68	122.20
1	AA	1064	G	N1-C6-O6	-6.39	116.06	119.90
25	DA	1796	U	N3-C4-C5	6.39	118.44	114.60
25	DA	2487	G	C8-N9-C4	6.39	108.95	106.40
25	CA	942	G	N9-C4-C5	6.38	107.95	105.40
25	CA	1646	C	N1-C2-O2	-6.38	115.07	118.90
25	DA	1302	A	N1-C6-N6	6.38	122.43	118.60
1	AA	1520	C	N3-C4-C5	6.38	124.45	121.90
25	DA	1163	G	N3-C4-C5	6.38	131.79	128.60
25	DA	1970	A	N3-C4-C5	-6.38	122.33	126.80
25	DA	1225	G	C8-N9-C4	6.38	108.95	106.40
1	AA	914	A	C8-N9-C4	-6.38	103.25	105.80
1	BA	322	C	C5-C6-N1	-6.38	117.81	121.00
25	CA	1325	U	C2-N1-C1'	-6.38	110.05	117.70
25	DA	2811	G	C4-N9-C1'	-6.38	118.21	126.50
25	CA	743	A	N1-C6-N6	6.38	122.43	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2829	A	C2-N3-C4	-6.38	107.41	110.60
25	CA	2724	U	N3-C4-O4	-6.38	114.94	119.40
56	DB	83	G	N3-C4-N9	-6.38	122.17	126.00
25	CA	316	C	C6-N1-C2	6.37	122.85	120.30
25	CA	1835	G	C5-C6-N1	6.37	114.69	111.50
25	CA	2250	G	N7-C8-N9	6.37	116.28	113.10
29	CE	146	VAL	CB-CA-C	-6.37	99.30	111.40
25	CA	2331	G	C4-N9-C1'	6.37	134.78	126.50
25	CA	1357	C	N1-C2-O2	-6.37	115.08	118.90
25	DA	1842	G	N3-C4-C5	6.37	131.78	128.60
25	CA	1543	G	C4-C5-N7	-6.37	108.25	110.80
1	AA	881	G	C8-N9-C4	6.36	108.94	106.40
25	DA	477	A	N1-C6-N6	6.36	122.42	118.60
25	DA	582	A	N1-C6-N6	6.36	122.42	118.60
25	DA	39	G	N3-C4-N9	-6.36	122.18	126.00
25	DA	443	A	N9-C4-C5	6.36	108.34	105.80
25	CA	101	A	C4-C5-C6	6.36	120.18	117.00
25	CA	2253	G	N3-C2-N2	-6.36	115.45	119.90
25	CA	2717	C	N1-C2-N3	6.36	123.65	119.20
25	DA	967	U	C2-N1-C1'	-6.36	110.07	117.70
25	CA	2688	G	N1-C6-O6	-6.36	116.09	119.90
25	DA	1422	G	C8-N9-C4	6.36	108.94	106.40
25	CA	1007	C	N1-C2-O2	-6.36	115.09	118.90
25	CA	1757	A	N1-C6-N6	6.36	122.41	118.60
1	AA	914	A	N9-C4-C5	6.35	108.34	105.80
1	BA	530	G	N7-C8-N9	6.35	116.28	113.10
25	DA	1985	C	C2-N1-C1'	-6.35	111.81	118.80
25	CA	2426	A	N7-C8-N9	6.35	116.98	113.80
25	CA	2469	A	N7-C8-N9	-6.35	110.62	113.80
25	DA	1971	U	C5-C4-O4	-6.35	122.09	125.90
25	CA	324	A	C8-N9-C4	6.35	108.34	105.80
25	CA	1902	C	C6-N1-C2	6.35	122.84	120.30
25	CA	1138	G	N1-C6-O6	6.34	123.71	119.90
25	CA	1595	C	C2-N1-C1'	-6.34	111.82	118.80
25	CA	1602	U	C6-N1-C2	6.34	124.81	121.00
1	AA	342	C	C6-N1-C2	6.34	122.84	120.30
1	AA	351	G	C6-C5-N7	-6.34	126.59	130.40
25	CA	382	A	C4-C5-N7	6.34	113.87	110.70
25	CA	1466	U	C6-N1-C2	6.34	124.81	121.00
25	DA	784	G	N3-C4-N9	6.34	129.81	126.00
1	AA	555	U	N3-C2-O2	6.34	126.64	122.20
25	CA	221	A	N3-C4-C5	6.34	131.24	126.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2031	A	C2-N3-C4	6.34	113.77	110.60
25	CA	538	A	N9-C4-C5	6.34	108.33	105.80
25	CA	342	A	C5-C6-N6	-6.34	118.63	123.70
25	CA	1256	G	N9-C4-C5	-6.34	102.86	105.40
25	CA	2030	A	C5-C6-N6	6.34	128.77	123.70
1	BA	452	A	C2-N3-C4	-6.33	107.43	110.60
25	CA	2260	C	N3-C4-C5	6.33	124.43	121.90
25	DA	2503	A	N9-C4-C5	-6.33	103.27	105.80
1	AA	1060	U	N1-C2-O2	-6.33	118.37	122.80
25	CA	2530	A	N1-C6-N6	6.33	122.40	118.60
25	DA	752	A	C2-N3-C4	-6.33	107.44	110.60
1	BA	188	C	C6-N1-C2	-6.33	117.77	120.30
25	DA	1666	G	C8-N9-C1'	6.33	135.23	127.00
25	CA	772	C	N1-C2-O2	-6.33	115.10	118.90
25	CA	1164	C	N1-C2-O2	-6.33	115.10	118.90
25	CA	1759	A	C8-N9-C4	-6.33	103.27	105.80
25	CA	25	U	N3-C4-O4	6.33	123.83	119.40
25	DA	783	A	C2-N3-C4	-6.33	107.44	110.60
1	BA	278	G	C8-N9-C1'	6.33	135.22	127.00
25	CA	74	A	N1-C6-N6	-6.33	114.80	118.60
25	DA	462	C	C6-N1-C2	6.33	122.83	120.30
25	CA	1674	G	C4-N9-C1'	6.32	134.72	126.50
25	DA	13	A	C4-C5-C6	6.32	120.16	117.00
25	DA	2158	A	N1-C6-N6	6.32	122.39	118.60
25	DA	2447	G	C4-N9-C1'	-6.32	118.28	126.50
25	CA	2802	G	N1-C2-N3	6.32	127.69	123.90
25	DA	757	G	N3-C4-N9	-6.32	122.21	126.00
25	DA	1653	G	C8-N9-C1'	-6.32	118.78	127.00
25	CA	1679	A	N1-C6-N6	6.32	122.39	118.60
25	CA	2271	G	C4-N9-C1'	6.32	134.72	126.50
25	DA	1758	U	N3-C4-O4	-6.32	114.98	119.40
25	CA	626	A	C6-C5-N7	-6.32	127.88	132.30
32	DH	62	LEU	CB-CG-CD1	6.32	121.74	111.00
10	BJ	48	ARG	NE-CZ-NH1	6.31	123.46	120.30
25	CA	1232	G	N1-C6-O6	-6.31	116.11	119.90
25	DA	2631	G	N3-C4-N9	-6.31	122.21	126.00
25	CA	787	C	C6-N1-C2	-6.31	117.78	120.30
26	CB	55	U	C6-N1-C2	-6.31	117.22	121.00
1	BA	278	G	C4-N9-C1'	-6.31	118.30	126.50
1	BA	428	G	C8-N9-C1'	6.31	135.20	127.00
1	AA	1505	G	N1-C6-O6	6.30	123.68	119.90
25	CA	727	A	N1-C6-N6	6.30	122.38	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BV	76	A	C8-N9-C4	6.30	108.32	105.80
25	DA	782	A	N1-C6-N6	-6.30	114.82	118.60
25	CA	187	G	C5-C6-O6	-6.30	124.82	128.60
25	CA	2492	U	C5-C4-O4	6.30	129.68	125.90
25	DA	424	G	C4-N9-C1'	-6.30	118.31	126.50
25	CA	2271	G	C4-C5-N7	6.30	113.32	110.80
25	CA	2354	C	C2-N3-C4	-6.30	116.75	119.90
25	DA	1653	G	N1-C6-O6	6.30	123.68	119.90
25	CA	2782	G	C8-N9-C4	6.29	108.92	106.40
25	CA	2598	A	C8-N9-C4	-6.29	103.28	105.80
25	DA	1836	C	N1-C2-O2	-6.29	115.13	118.90
25	CA	942	G	C4-C5-N7	-6.29	108.28	110.80
25	CA	832	U	N1-C2-O2	-6.29	118.40	122.80
25	CA	1341	G	C5-C6-O6	-6.29	124.83	128.60
25	CA	1672	A	C6-C5-N7	-6.29	127.90	132.30
26	CB	58	A	C5-C6-N1	6.29	120.84	117.70
25	DA	1659	G	N3-C4-N9	-6.29	122.23	126.00
25	DA	2502	G	C5-C6-N1	6.29	114.64	111.50
25	CA	1766	G	C8-N9-C4	6.29	108.92	106.40
1	BA	1466	C	C6-N1-C2	6.29	122.81	120.30
25	DA	77	G	N3-C4-C5	6.29	131.74	128.60
25	CA	459	U	N3-C4-C5	6.28	118.37	114.60
25	CA	1816	C	N3-C2-O2	6.28	126.30	121.90
25	CA	2009	A	N1-C6-N6	-6.28	114.83	118.60
25	CA	939	G	C5-C6-O6	-6.28	124.83	128.60
25	DA	249	C	C2-N1-C1'	-6.28	111.89	118.80
25	CA	821	A	N3-C4-C5	6.28	131.19	126.80
25	CA	1500	G	C5-C6-O6	-6.28	124.83	128.60
25	CA	2289	G	N3-C4-N9	-6.28	122.23	126.00
25	DA	955	U	C5-C6-N1	6.28	125.84	122.70
25	DA	985	C	C6-N1-C2	-6.28	117.79	120.30
25	DA	2884	U	N3-C2-O2	6.28	126.59	122.20
1	AA	35	G	N1-C6-O6	-6.27	116.14	119.90
1	AA	351	G	N1-C6-O6	6.27	123.66	119.90
25	CA	2147	A	C5-C6-N6	-6.27	118.68	123.70
27	CC	268	ARG	NE-CZ-NH1	6.27	123.44	120.30
25	CA	46	G	N9-C4-C5	6.27	107.91	105.40
25	CA	2626	C	N3-C2-O2	6.27	126.29	121.90
25	CA	2890	G	N1-C6-O6	6.27	123.66	119.90
25	DA	2030	A	C5-C6-N1	-6.27	114.56	117.70
25	DA	862	G	C5-C6-O6	-6.27	124.84	128.60
25	CA	171	U	C5-C4-O4	6.26	129.66	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2830	C	N3-C2-O2	6.26	126.28	121.90
25	DA	225	C	C6-N1-C2	-6.26	117.79	120.30
1	BA	400	C	N1-C2-O2	-6.26	115.14	118.90
25	CA	1897	G	C4-N9-C1'	6.26	134.64	126.50
25	CA	1989	G	C4-C5-N7	6.26	113.31	110.80
25	CA	2000	C	N3-C4-C5	6.26	124.41	121.90
25	CA	2400	G	C5-C6-N1	6.26	114.63	111.50
25	CA	2538	C	N3-C4-C5	6.26	124.40	121.90
25	CA	2802	G	C2-N3-C4	-6.26	108.77	111.90
26	CB	12	C	C2-N3-C4	-6.26	116.77	119.90
25	DA	2491	U	N1-C2-N3	-6.26	111.14	114.90
25	CA	471	A	N1-C6-N6	6.26	122.35	118.60
25	CA	2436	G	N1-C2-N3	6.26	127.65	123.90
25	CA	534	U	N3-C2-O2	6.25	126.58	122.20
25	DA	528	A	C4-C5-N7	6.25	113.83	110.70
25	DA	1125	G	C8-N9-C1'	-6.25	118.87	127.00
25	DA	1265	A	C4-C5-C6	6.25	120.12	117.00
25	CA	1574	C	C5-C4-N4	-6.25	115.83	120.20
25	DA	1198	U	C6-N1-C2	-6.25	117.25	121.00
1	AA	536	C	C6-N1-C2	6.25	122.80	120.30
25	CA	1819	A	C5-C6-N6	6.25	128.70	123.70
25	CA	2045	C	N3-C4-C5	6.25	124.40	121.90
1	AA	153	C	C6-N1-C2	6.25	122.80	120.30
25	CA	1138	G	C5-C6-O6	-6.25	124.85	128.60
25	DA	2705	A	N1-C6-N6	6.25	122.35	118.60
25	CA	1108	U	N3-C2-O2	6.24	126.57	122.20
25	CA	1336	A	C4-C5-N7	-6.24	107.58	110.70
25	DA	1845	G	C4-C5-N7	-6.24	108.30	110.80
25	CA	1573	G	C5-C6-O6	-6.24	124.86	128.60
25	CA	453	A	C5-C6-N1	-6.24	114.58	117.70
25	CA	683	U	N1-C2-O2	-6.23	118.44	122.80
25	CA	481	G	N1-C6-O6	6.23	123.64	119.90
25	CA	1519	G	C5-C6-O6	6.23	132.34	128.60
1	BA	106	C	C6-N1-C2	6.23	122.79	120.30
25	CA	618	G	C5-C6-O6	6.23	132.34	128.60
25	CA	1378	A	N9-C4-C5	6.23	108.29	105.80
25	CA	208	C	C2-N3-C4	-6.23	116.79	119.90
25	CA	618	G	C4-C5-N7	-6.23	108.31	110.80
25	CA	1695	G	C6-C5-N7	-6.23	126.66	130.40
25	CA	812	C	N3-C2-O2	6.23	126.26	121.90
25	DA	1648	U	N1-C2-O2	-6.23	118.44	122.80
25	CA	2621	G	N3-C4-N9	-6.22	122.27	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	23	G	C8-N9-C4	6.22	108.89	106.40
26	CB	8	C	N3-C2-O2	6.22	126.25	121.90
1	AA	877	G	N1-C6-O6	-6.22	116.17	119.90
25	CA	222	A	N1-C2-N3	6.22	132.41	129.30
25	CA	640	C	N3-C2-O2	6.22	126.25	121.90
25	CA	2726	A	C2-N3-C4	6.22	113.71	110.60
25	DA	939	G	C4-N9-C1'	-6.22	118.41	126.50
25	DA	1135	C	C5-C4-N4	-6.22	115.85	120.20
25	DA	1681	G	C4-C5-N7	6.22	113.29	110.80
25	DA	2532	G	N9-C4-C5	-6.22	102.91	105.40
25	DA	979	A	N9-C4-C5	6.21	108.29	105.80
1	AA	904	U	N3-C2-O2	6.21	126.55	122.20
25	CA	2683	C	N3-C2-O2	-6.21	117.55	121.90
1	AA	404	G	N3-C2-N2	6.21	124.25	119.90
1	BA	1112	C	C6-N1-C2	-6.21	117.81	120.30
25	DA	2050	C	N1-C2-O2	-6.21	115.17	118.90
25	DA	2884	U	C5-C4-O4	6.21	129.63	125.90
25	CA	2583	G	N3-C2-N2	-6.21	115.55	119.90
25	DA	511	U	N3-C4-C5	6.21	118.33	114.60
25	CA	489	G	N3-C2-N2	-6.21	115.55	119.90
25	CA	2696	U	N3-C2-O2	-6.21	117.85	122.20
25	DA	1135	C	N3-C2-O2	6.21	126.25	121.90
25	DA	1340	U	N3-C2-O2	-6.21	117.85	122.20
25	CA	1402	U	C5-C6-N1	-6.21	119.60	122.70
25	CA	1936	A	C4-C5-N7	6.21	113.80	110.70
25	CA	727	A	N9-C4-C5	-6.21	103.32	105.80
25	CA	2855	C	N1-C2-O2	-6.20	115.18	118.90
25	DA	2208	C	C2-N1-C1'	6.20	125.62	118.80
25	DA	1930	G	C8-N9-C4	6.20	108.88	106.40
25	CA	2877	G	N1-C6-O6	6.20	123.62	119.90
1	BA	530	G	C5-N7-C8	-6.20	101.20	104.30
25	CA	122	G	N1-C6-O6	6.20	123.62	119.90
26	CB	43	C	C6-N1-C2	-6.20	117.82	120.30
1	AA	36	C	N3-C4-C5	-6.19	119.42	121.90
25	CA	1939	U	N3-C2-O2	6.19	126.53	122.20
25	DA	1447	C	C6-N1-C2	-6.19	117.82	120.30
25	CA	2331	G	C4-C5-N7	6.19	113.28	110.80
1	AA	1094	G	N9-C4-C5	-6.19	102.92	105.40
25	CA	1165	A	C2-N3-C4	-6.19	107.50	110.60
25	DA	2022	U	C5-C4-O4	-6.19	122.19	125.90
1	BA	735	C	C6-N1-C2	-6.19	117.83	120.30
25	DA	1791	A	N1-C6-N6	6.19	122.31	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1005	C	N1-C2-O2	-6.18	115.19	118.90
25	CA	2838	G	N7-C8-N9	-6.18	110.01	113.10
25	DA	238	C	N3-C2-O2	6.18	126.23	121.90
25	CA	859	G	N1-C6-O6	-6.18	116.19	119.90
25	DA	1377	G	C8-N9-C4	-6.18	103.93	106.40
25	DA	2619	C	C2-N1-C1'	-6.18	112.00	118.80
25	CA	2282	G	N3-C4-C5	-6.18	125.51	128.60
25	DA	1187	G	C4-N9-C1'	6.18	134.53	126.50
25	CA	488	G	N3-C4-C5	-6.18	125.51	128.60
25	CA	1311	G	C5-C6-O6	-6.18	124.89	128.60
25	CA	1394	U	C6-N1-C1'	6.18	129.85	121.20
25	DA	1327	A	C5-C6-N1	-6.18	114.61	117.70
25	DA	2601	C	C6-N1-C2	-6.18	117.83	120.30
25	CA	2689	U	N1-C2-O2	6.18	127.12	122.80
1	BA	283	U	C5-C6-N1	6.18	125.79	122.70
25	CA	1808	A	C8-N9-C4	6.18	108.27	105.80
25	CA	1981	A	N1-C6-N6	-6.18	114.89	118.60
25	DA	1303	G	C8-N9-C4	-6.18	103.93	106.40
1	AA	1481	U	C6-N1-C1'	6.17	129.84	121.20
25	CA	17	G	C8-N9-C4	6.17	108.87	106.40
25	CA	331	C	N1-C2-O2	-6.17	115.19	118.90
25	CA	1920	C	C6-N1-C2	-6.17	117.83	120.30
25	CA	2364	C	N1-C2-O2	-6.17	115.19	118.90
25	CA	550	C	C6-N1-C2	-6.17	117.83	120.30
26	CB	61	G	N3-C4-C5	6.17	131.69	128.60
1	AA	365	U	N3-C4-O4	-6.17	115.08	119.40
1	BA	871	U	N1-C2-O2	6.17	127.12	122.80
25	CA	398	C	C2-N1-C1'	-6.17	112.01	118.80
25	CA	748	G	C5-N7-C8	6.17	107.39	104.30
25	CA	2364	C	C5-C6-N1	-6.17	117.91	121.00
25	CA	2782	G	C5-C6-N1	6.17	114.59	111.50
25	CA	1680	U	N3-C2-O2	-6.17	117.88	122.20
1	AA	351	G	C4-C5-N7	6.17	113.27	110.80
1	BA	378	G	N9-C4-C5	-6.17	102.93	105.40
25	CA	83	A	C6-N1-C2	-6.17	114.90	118.60
25	DA	1163	G	C8-N9-C1'	6.17	135.02	127.00
1	AA	971	G	N9-C4-C5	6.17	107.87	105.40
25	CA	371	A	N7-C8-N9	-6.17	110.72	113.80
25	CA	708	G	C4-N9-C1'	-6.17	118.48	126.50
25	CA	51	G	C8-N9-C4	-6.16	103.94	106.40
25	DA	792	A	N9-C4-C5	6.16	108.27	105.80
25	CA	417	C	C6-N1-C2	-6.16	117.83	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	984	A	N9-C4-C5	-6.16	103.33	105.80
25	DA	1970	A	C2-N3-C4	6.16	113.68	110.60
25	CA	171	U	N3-C4-O4	-6.16	115.09	119.40
25	CA	2808	G	N3-C2-N2	6.16	124.21	119.90
25	DA	2594	C	N3-C2-O2	6.16	126.21	121.90
25	CA	748	G	N9-C4-C5	6.16	107.86	105.40
25	CA	1446	C	N1-C2-O2	-6.16	115.20	118.90
25	DA	1681	G	N1-C6-O6	6.16	123.59	119.90
25	CA	1500	G	N1-C6-O6	6.15	123.59	119.90
25	CA	2688	G	C5-C6-O6	6.15	132.29	128.60
1	AA	664	G	C5-C6-O6	6.15	132.29	128.60
25	CA	66	C	C4-C5-C6	6.15	120.48	117.40
25	CA	1791	A	C2-N3-C4	-6.15	107.52	110.60
25	CA	2269	G	C8-N9-C4	-6.15	103.94	106.40
25	CA	2540	C	N1-C2-O2	-6.15	115.21	118.90
56	DB	100	G	C8-N9-C4	6.15	108.86	106.40
1	AA	822	U	N3-C2-O2	6.15	126.50	122.20
25	CA	215	G	N9-C4-C5	-6.15	102.94	105.40
25	CA	2271	G	N3-C2-N2	6.15	124.20	119.90
25	CA	2307	G	N3-C2-N2	-6.15	115.60	119.90
25	CA	2647	U	C5-C6-N1	-6.15	119.63	122.70
25	CA	91	A	C8-N9-C4	6.15	108.26	105.80
25	CA	642	U	N1-C2-O2	-6.15	118.50	122.80
25	CA	1456	G	N3-C4-C5	6.14	131.67	128.60
25	CA	1554	U	C5-C6-N1	-6.14	119.63	122.70
25	CA	2360	G	N1-C6-O6	6.14	123.59	119.90
25	DA	2709	G	N1-C6-O6	6.14	123.59	119.90
25	CA	335	C	N1-C2-O2	-6.14	115.22	118.90
25	CA	509	C	C5-C6-N1	-6.14	117.93	121.00
25	CA	1784	A	N1-C6-N6	6.14	122.28	118.60
25	CA	555	G	C6-C5-N7	-6.14	126.72	130.40
25	CA	2209	G	N1-C6-O6	6.14	123.58	119.90
25	CA	473	G	N9-C4-C5	6.14	107.86	105.40
25	DA	510	C	C5-C4-N4	-6.14	115.90	120.20
25	DA	661	A	C8-N9-C4	6.14	108.26	105.80
25	DA	1786	A	N1-C6-N6	-6.14	114.92	118.60
25	DA	2870	C	C2-N1-C1'	-6.14	112.05	118.80
25	DA	2503	A	C8-N9-C4	6.14	108.25	105.80
1	AA	279	A	N1-C6-N6	6.13	122.28	118.60
25	CA	2468	A	C6-C5-N7	-6.13	128.00	132.30
25	CA	11	C	N3-C2-O2	6.13	126.19	121.90
25	CA	2677	G	C5-C6-O6	-6.13	124.92	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	325	G	C8-N9-C4	6.13	108.85	106.40
25	DA	968	C	N1-C2-O2	-6.13	115.22	118.90
25	DA	2019	A	C8-N9-C4	6.13	108.25	105.80
25	CA	585	G	C8-N9-C4	-6.13	103.95	106.40
25	CA	1955	U	C5-C4-O4	6.13	129.58	125.90
1	AA	677	U	C2-N1-C1'	6.13	125.05	117.70
25	CA	616	A	C2-N3-C4	-6.13	107.54	110.60
25	CA	748	G	C5-C6-O6	6.13	132.28	128.60
25	CA	1255	U	N3-C2-O2	6.13	126.49	122.20
25	CA	1939	U	C4-C5-C6	-6.13	116.02	119.70
25	CA	2689	U	C5-C6-N1	-6.13	119.64	122.70
25	DA	2884	U	C2-N1-C1'	-6.13	110.35	117.70
25	CA	116	C	C2-N1-C1'	-6.12	112.06	118.80
25	CA	1127	A	C2-N3-C4	6.12	113.66	110.60
25	CA	2502	G	C8-N9-C4	-6.12	103.95	106.40
25	CA	2720	U	N3-C2-O2	-6.12	117.91	122.20
25	DA	2445	G	N1-C6-O6	6.12	123.57	119.90
25	CA	1758	U	C5-C4-O4	6.12	129.57	125.90
25	CA	1817	G	C5-C6-O6	6.12	132.27	128.60
25	CA	2897	U	C2-N3-C4	-6.12	123.33	127.00
25	DA	450	G	C4-C5-N7	-6.12	108.35	110.80
25	CA	2354	C	C5-C6-N1	-6.12	117.94	121.00
25	CA	840	C	N1-C2-O2	6.12	122.57	118.90
25	CA	2271	G	C6-C5-N7	-6.12	126.73	130.40
25	CA	1827	U	N1-C2-N3	6.12	118.57	114.90
25	CA	1770	G	N3-C4-N9	6.11	129.67	126.00
25	CA	2056	G	N1-C6-O6	6.11	123.57	119.90
25	DA	815	C	N3-C4-N4	6.11	122.28	118.00
1	AA	791	G	C5-C6-O6	-6.11	124.93	128.60
25	CA	1842	G	N1-C6-O6	6.11	123.56	119.90
25	DA	1997	C	C2-N3-C4	-6.11	116.85	119.90
25	DA	180	G	C4-N9-C1'	-6.11	118.56	126.50
25	CA	1842	G	N3-C4-N9	6.11	129.66	126.00
25	DA	561	G	C4-C5-N7	6.11	113.24	110.80
25	DA	2884	U	C6-N1-C1'	6.11	129.75	121.20
1	BA	538	G	N1-C6-O6	-6.10	116.24	119.90
25	CA	2226	C	C2-N3-C4	-6.10	116.85	119.90
25	DA	962	G	C2-N3-C4	-6.10	108.85	111.90
25	DA	1002	G	N3-C4-N9	-6.10	122.34	126.00
25	DA	2278	A	N1-C6-N6	6.10	122.26	118.60
25	DA	2870	C	C6-N1-C2	6.10	122.74	120.30
1	BA	326	G	C5-C6-O6	6.10	132.26	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	25	U	C5-C4-O4	-6.10	122.24	125.90
25	CA	268	C	C6-N1-C2	6.10	122.74	120.30
25	CA	827	U	N3-C2-O2	6.10	126.47	122.20
25	CA	1024	G	C4-C5-N7	6.10	113.24	110.80
25	CA	1436	G	C5-C6-O6	6.10	132.26	128.60
25	CA	2447	G	C5-C6-O6	-6.10	124.94	128.60
25	DA	562	U	N3-C4-O4	-6.10	115.13	119.40
25	DA	1074	G	N9-C4-C5	6.10	107.84	105.40
25	DA	2887	A	N1-C6-N6	6.10	122.26	118.60
25	CA	555	G	C4-C5-N7	6.10	113.24	110.80
25	CA	1572	A	N1-C6-N6	-6.10	114.94	118.60
1	AA	1524	C	N3-C2-O2	6.09	126.17	121.90
25	CA	1125	G	N1-C6-O6	-6.09	116.24	119.90
25	CA	1614	A	C8-N9-C4	6.09	108.24	105.80
25	DA	1573	G	C6-C5-N7	6.09	134.06	130.40
1	AA	53	A	N1-C6-N6	6.09	122.26	118.60
25	CA	2313	C	C6-N1-C2	-6.09	117.86	120.30
25	DA	2596	U	N3-C2-O2	-6.09	117.94	122.20
1	BA	1480	A	C5-C6-N1	-6.09	114.65	117.70
25	CA	1961	C	N3-C4-C5	6.09	124.34	121.90
25	DA	853	C	C6-N1-C2	6.09	122.74	120.30
25	DA	984	A	C4-N9-C1'	-6.09	115.34	126.30
25	DA	1845	G	N9-C4-C5	6.09	107.84	105.40
25	CA	175	G	C4-N9-C1'	-6.09	118.58	126.50
25	DA	2539	C	N1-C2-O2	-6.09	115.25	118.90
25	CA	2535	G	C8-N9-C4	6.09	108.83	106.40
25	CA	2553	G	N1-C2-N2	-6.09	110.72	116.20
25	DA	2433	A	C8-N9-C4	6.09	108.23	105.80
25	CA	404	A	N1-C6-N6	6.08	122.25	118.60
25	DA	757	G	C8-N9-C1'	6.08	134.91	127.00
25	CA	840	C	N3-C4-C5	6.08	124.33	121.90
25	CA	1336	A	N9-C4-C5	6.08	108.23	105.80
26	CB	58	A	C6-N1-C2	-6.08	114.95	118.60
25	DA	1001	A	C8-N9-C4	6.08	108.23	105.80
1	BA	823	C	N3-C2-O2	6.08	126.16	121.90
25	DA	1971	U	N3-C4-O4	6.08	123.66	119.40
1	AA	329	A	C8-N9-C4	6.08	108.23	105.80
25	CA	2490	G	C8-N9-C4	6.08	108.83	106.40
25	CA	2204	G	N1-C6-O6	6.08	123.55	119.90
25	CA	2289	G	N3-C4-C5	6.08	131.64	128.60
25	CA	2396	G	N1-C6-O6	-6.08	116.25	119.90
25	CA	2223	G	N1-C6-O6	6.08	123.55	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1389	G	N1-C6-O6	6.08	123.55	119.90
25	DA	2783	U	N3-C4-O4	-6.08	115.15	119.40
25	CA	533	G	C8-N9-C1'	-6.07	119.11	127.00
1	AA	859	G	N9-C4-C5	-6.07	102.97	105.40
25	CA	1513	U	C2-N1-C1'	-6.07	110.42	117.70
25	CA	2893	A	C4-C5-C6	6.07	120.03	117.00
25	DA	1006	C	N3-C2-O2	6.07	126.15	121.90
25	DA	1192	G	N7-C8-N9	-6.07	110.06	113.10
25	DA	1711	A	C8-N9-C4	-6.07	103.37	105.80
25	DA	1605	C	N1-C2-O2	-6.07	115.26	118.90
25	DA	1236	G	C4-C5-N7	6.07	113.23	110.80
56	DB	91	C	C2-N1-C1'	-6.07	112.12	118.80
26	CB	51	G	C5-C6-O6	-6.07	124.96	128.60
25	CA	1294	U	C5-C6-N1	-6.06	119.67	122.70
25	DA	109	C	N1-C2-O2	-6.06	115.26	118.90
1	AA	734	G	N3-C4-N9	6.06	129.64	126.00
25	CA	1623	G	N1-C6-O6	6.06	123.54	119.90
25	CA	2045	C	C2-N3-C4	-6.06	116.87	119.90
25	CA	2884	U	N3-C4-O4	-6.06	115.16	119.40
25	DA	517	C	N3-C4-N4	6.06	122.24	118.00
25	DA	2383	G	N1-C6-O6	6.06	123.54	119.90
25	CA	499	U	N1-C2-N3	6.06	118.54	114.90
25	CA	1512	C	N1-C2-O2	-6.06	115.26	118.90
25	DA	526	A	C4-C5-N7	-6.06	107.67	110.70
25	DA	2388	A	N1-C6-N6	-6.06	114.96	118.60
1	AA	530	G	C6-C5-N7	-6.06	126.76	130.40
25	CA	1764	C	N3-C2-O2	6.06	126.14	121.90
25	CA	1766	G	N3-C4-C5	6.06	131.63	128.60
25	CA	2056	G	N1-C2-N2	6.06	121.65	116.20
25	CA	2155	U	C2-N1-C1'	6.06	124.97	117.70
1	AA	1457	G	N3-C4-C5	6.06	131.63	128.60
25	CA	979	A	C6-C5-N7	-6.06	128.06	132.30
25	CA	1827	U	C6-N1-C2	-6.06	117.36	121.00
25	CA	1452	G	N3-C4-N9	-6.06	122.37	126.00
26	CB	90	C	N1-C2-O2	-6.05	115.27	118.90
25	DA	424	G	C6-C5-N7	6.05	134.03	130.40
25	CA	1426	G	N1-C6-O6	6.05	123.53	119.90
25	CA	1695	G	N1-C6-O6	6.05	123.53	119.90
25	DA	746	U	N3-C2-O2	-6.05	117.96	122.20
1	AA	521	G	C8-N9-C4	6.05	108.82	106.40
25	DA	2355	G	N1-C6-O6	6.05	123.53	119.90
25	DA	2517	C	N1-C2-O2	-6.05	115.27	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	205	G	N3-C4-C5	-6.05	125.58	128.60
25	CA	1022	G	N3-C4-C5	6.05	131.62	128.60
25	DA	2445	G	N1-C2-N2	6.05	121.64	116.20
25	CA	1225	G	C4-C5-N7	6.04	113.22	110.80
25	CA	1587	G	C4-N9-C1'	6.04	134.36	126.50
25	DA	2647	U	C5-C6-N1	-6.04	119.68	122.70
25	CA	252	G	N3-C4-C5	6.04	131.62	128.60
25	CA	1450	G	C4-N9-C1'	-6.04	118.65	126.50
25	CA	1528	A	C2-N3-C4	-6.04	107.58	110.60
25	CA	1639	C	C6-N1-C2	-6.04	117.88	120.30
25	CA	2084	C	N1-C2-O2	-6.04	115.28	118.90
22	AV	41	C	N1-C2-O2	-6.04	115.28	118.90
25	CA	2011	U	C6-N1-C2	6.04	124.62	121.00
25	DA	29	U	N3-C2-O2	-6.04	117.97	122.20
25	DA	2843	G	N1-C6-O6	6.04	123.52	119.90
25	CA	1341	G	C8-N9-C4	6.04	108.81	106.40
25	CA	1617	C	C5-C6-N1	-6.04	117.98	121.00
1	BA	397	A	C6-N1-C2	-6.04	114.98	118.60
1	AA	1441	A	N1-C6-N6	-6.04	114.98	118.60
25	DA	1887	C	N1-C2-O2	6.04	122.52	118.90
1	BA	1080	A	C8-N9-C4	-6.03	103.39	105.80
25	DA	488	G	C8-N9-C4	6.03	108.81	106.40
25	DA	808	G	C8-N9-C1'	-6.03	119.16	127.00
1	AA	1174	G	C4-N9-C1'	-6.03	118.66	126.50
25	CA	2603	G	C2-N3-C4	-6.03	108.88	111.90
25	DA	1796	U	C2-N1-C1'	-6.03	110.46	117.70
1	AA	715	A	N1-C6-N6	6.03	122.22	118.60
25	CA	2053	G	C6-C5-N7	-6.03	126.78	130.40
25	CA	121	G	N1-C6-O6	6.03	123.52	119.90
25	CA	292	U	C5-C6-N1	-6.03	119.69	122.70
25	CA	1587	G	C8-N9-C4	-6.03	103.99	106.40
25	CA	1980	G	C5-C6-N1	6.03	114.52	111.50
26	CB	113	C	C5-C4-N4	-6.03	115.98	120.20
25	DA	122	G	N1-C6-O6	6.03	123.52	119.90
25	CA	946	C	N1-C2-O2	-6.03	115.28	118.90
25	DA	1757	A	C4-C5-C6	6.03	120.01	117.00
1	AA	190	A	N1-C6-N6	6.03	122.22	118.60
1	AA	308	C	C5-C6-N1	-6.03	117.99	121.00
25	CA	349	U	C6-N1-C2	6.03	124.61	121.00
25	DA	636	G	C4-N9-C1'	6.03	134.33	126.50
25	CA	2031	A	N3-C4-C5	-6.02	122.58	126.80
25	CA	2226	C	N1-C2-N3	6.02	123.42	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1223	G	N3-C4-C5	6.02	131.61	128.60
26	CB	86	G	C8-N9-C4	6.02	108.81	106.40
25	CA	2711	A	C2-N3-C4	-6.02	107.59	110.60
25	CA	2762	C	C2-N3-C4	-6.02	116.89	119.90
25	DA	122	G	C5-C6-O6	-6.02	124.99	128.60
25	DA	1030	C	C6-N1-C2	6.02	122.71	120.30
25	DA	2432	A	N1-C6-N6	6.02	122.21	118.60
22	BV	29	G	N3-C4-C5	6.02	131.61	128.60
25	CA	1122	G	N9-C4-C5	6.02	107.81	105.40
25	CA	1187	G	C8-N9-C4	-6.02	103.99	106.40
25	CA	1357	C	C2-N3-C4	-6.01	116.89	119.90
1	AA	1481	U	C2-N1-C1'	-6.01	110.49	117.70
25	DA	129	C	C5-C6-N1	-6.01	117.99	121.00
25	DA	1931	U	N1-C2-O2	6.01	127.01	122.80
1	AA	12	U	C5-C4-O4	6.01	129.51	125.90
25	CA	1646	C	C2-N3-C4	-6.01	116.90	119.90
25	CA	2331	G	C8-N9-C1'	-6.01	119.19	127.00
25	CA	441	U	N3-C2-O2	-6.01	117.99	122.20
25	CA	1410	G	C8-N9-C4	6.01	108.80	106.40
25	CA	2888	C	C6-N1-C1'	-6.01	113.59	120.80
1	BA	987	G	N3-C4-C5	-6.01	125.60	128.60
25	DA	595	C	C6-N1-C2	6.01	122.70	120.30
25	DA	805	G	C2-N3-C4	-6.00	108.90	111.90
25	CA	1470	A	N9-C4-C5	6.00	108.20	105.80
25	CA	1988	G	C5-C6-N1	-6.00	108.50	111.50
25	CA	2619	C	N3-C4-C5	6.00	124.30	121.90
25	DA	1143	A	C8-N9-C4	6.00	108.20	105.80
25	DA	1932	A	N1-C6-N6	6.00	122.20	118.60
25	CA	60	G	C5-C6-O6	-6.00	125.00	128.60
25	CA	1200	C	N1-C2-O2	-6.00	115.30	118.90
25	DA	1653	G	C4-N9-C1'	6.00	134.30	126.50
25	DA	380	G	N1-C6-O6	6.00	123.50	119.90
25	DA	1161	C	N3-C4-C5	6.00	124.30	121.90
25	DA	242	G	N1-C6-O6	-6.00	116.30	119.90
25	DA	275	C	C6-N1-C2	-6.00	117.90	120.30
25	DA	1360	G	N9-C4-C5	6.00	107.80	105.40
25	CA	990	A	C2-N3-C4	-6.00	107.60	110.60
25	CA	1767	G	N3-C4-C5	6.00	131.60	128.60
25	CA	2347	C	N1-C2-O2	-6.00	115.30	118.90
1	BA	1286	U	C2-N1-C1'	5.99	124.89	117.70
25	CA	793	A	C5-C6-N6	5.99	128.49	123.70
25	CA	914	G	C4-N9-C1'	-5.99	118.71	126.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1301	A	C4-C5-N7	5.99	113.70	110.70
25	DA	2677	G	C2-N3-C4	5.99	114.90	111.90
25	CA	2609	U	C6-N1-C2	5.99	124.59	121.00
25	CA	129	C	C6-N1-C2	5.99	122.70	120.30
25	CA	984	A	C4-N9-C1'	-5.99	115.52	126.30
25	CA	2032	G	N7-C8-N9	-5.99	110.11	113.10
25	DA	908	C	N3-C2-O2	5.99	126.09	121.90
25	CA	560	C	C6-N1-C2	-5.99	117.91	120.30
25	DA	29	U	C5-C4-O4	5.99	129.49	125.90
25	CA	1801	A	C2-N3-C4	-5.99	107.61	110.60
26	CB	80	U	N1-C2-O2	-5.98	118.61	122.80
25	DA	2396	G	N3-C4-C5	5.98	131.59	128.60
1	AA	67	C	C6-N1-C2	-5.98	117.91	120.30
1	BA	858	G	C5-C6-O6	5.98	132.19	128.60
25	CA	1999	C	N1-C2-O2	-5.98	115.31	118.90
25	DA	500	G	C8-N9-C4	5.98	108.79	106.40
25	CA	580	U	N1-C2-O2	-5.98	118.61	122.80
25	CA	2642	G	C5-C6-N1	5.98	114.49	111.50
56	DB	83	G	N9-C4-C5	5.98	107.79	105.40
25	DA	509	C	C2-N3-C4	-5.98	116.91	119.90
25	CA	1795	C	N1-C2-O2	-5.97	115.32	118.90
25	CA	2024	G	N3-C4-C5	-5.97	125.61	128.60
1	BA	713	G	C4-C5-N7	-5.97	108.41	110.80
25	CA	1073	A	C8-N9-C4	-5.97	103.41	105.80
25	DA	673	C	N3-C4-C5	5.97	124.29	121.90
25	CA	1660	G	N3-C2-N2	-5.97	115.72	119.90
25	DA	1910	G	C4-C5-N7	-5.97	108.41	110.80
1	BA	788	U	N3-C2-O2	5.97	126.38	122.20
25	CA	2621	G	C5-C6-N1	-5.97	108.52	111.50
25	DA	565	C	N3-C4-N4	5.97	122.18	118.00
25	DA	2006	C	N1-C2-O2	-5.97	115.32	118.90
25	CA	1208	C	C5-C6-N1	-5.97	118.02	121.00
25	DA	801	G	C5-C6-O6	5.97	132.18	128.60
25	DA	2061	G	N3-C4-C5	-5.97	125.62	128.60
25	DA	1753	G	N1-C6-O6	-5.97	116.32	119.90
1	AA	816	A	C8-N9-C4	5.96	108.19	105.80
25	CA	1674	G	N3-C4-C5	-5.96	125.62	128.60
25	CA	2435	A	C5-C6-N6	-5.96	118.93	123.70
25	DA	987	C	N1-C2-N3	5.96	123.37	119.20
1	AA	859	G	C4-N9-C1'	5.96	134.25	126.50
25	CA	315	G	C5-C6-O6	-5.96	125.02	128.60
25	DA	2018	G	N3-C4-C5	5.96	131.58	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2731	G	C2-N3-C4	5.96	114.88	111.90
25	DA	308	G	C4-N9-C1'	5.96	134.25	126.50
25	CA	634	C	N3-C4-C5	5.96	124.28	121.90
25	CA	2495	G	C5-C6-O6	5.96	132.17	128.60
25	DA	159	G	C4-C5-N7	-5.96	108.42	110.80
25	CA	1351	C	C6-N1-C1'	5.96	127.95	120.80
25	CA	2059	A	C8-N9-C4	5.96	108.18	105.80
25	CA	2232	C	C2-N1-C1'	-5.95	112.25	118.80
25	CA	1311	G	N3-C4-N9	-5.95	122.43	126.00
25	CA	1660	G	N1-C6-O6	-5.95	116.33	119.90
25	CA	1743	G	N3-C4-N9	5.95	129.57	126.00
25	DA	1451	C	N1-C2-O2	-5.95	115.33	118.90
25	DA	2532	G	C2-N3-C4	-5.95	108.92	111.90
1	AA	365	U	C2-N1-C1'	-5.95	110.56	117.70
25	CA	1842	G	N9-C4-C5	-5.95	103.02	105.40
25	DA	424	G	C4-C5-C6	-5.95	115.23	118.80
1	AA	1322	C	N1-C2-O2	-5.95	115.33	118.90
25	CA	450	G	N3-C4-C5	-5.95	125.63	128.60
25	DA	1004	U	N3-C2-O2	5.95	126.36	122.20
25	DA	1404	C	C6-N1-C2	-5.95	117.92	120.30
25	CA	795	C	N1-C2-O2	-5.95	115.33	118.90
25	CA	866	A	N1-C6-N6	5.95	122.17	118.60
25	CA	2834	G	N3-C2-N2	5.95	124.06	119.90
1	AA	1417	G	N3-C4-N9	5.94	129.57	126.00
1	AA	664	G	C4-C5-N7	-5.94	108.42	110.80
1	AA	903	G	N1-C6-O6	-5.94	116.33	119.90
1	AA	1417	G	C4-C5-N7	5.94	113.18	110.80
25	CA	311	A	C8-N9-C4	5.94	108.18	105.80
25	CA	1036	G	C5-C6-N1	5.94	114.47	111.50
25	DA	752	A	C4-C5-N7	5.94	113.67	110.70
25	DA	1036	G	C4-N9-C1'	-5.94	118.78	126.50
25	CA	1301	A	C6-C5-N7	-5.94	128.14	132.30
25	CA	2385	C	N3-C4-C5	5.94	124.28	121.90
25	CA	2799	A	C5-C6-N6	-5.94	118.95	123.70
25	CA	554	U	N1-C2-O2	-5.93	118.65	122.80
25	CA	746	U	N1-C2-O2	-5.93	118.65	122.80
25	CA	813	U	N1-C2-N3	5.93	118.46	114.90
25	CA	1661	G	N3-C4-C5	-5.93	125.63	128.60
1	BA	890	G	C8-N9-C4	5.93	108.77	106.40
25	CA	600	G	C5-C6-N1	-5.93	108.53	111.50
25	DA	2509	G	C5-C6-O6	-5.93	125.04	128.60
25	DA	731	C	C6-N1-C2	5.93	122.67	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	734	G	N9-C4-C5	-5.93	103.03	105.40
25	CA	2546	U	C2-N1-C1'	-5.93	110.59	117.70
25	DA	1423	G	N7-C8-N9	-5.93	110.14	113.10
1	BA	365	U	C2-N1-C1'	-5.92	110.59	117.70
25	CA	1456	G	C2-N3-C4	-5.92	108.94	111.90
25	CA	1779	U	C2-N3-C4	-5.92	123.45	127.00
25	CA	2332	C	C5-C6-N1	-5.92	118.04	121.00
25	DA	242	G	C4-N9-C1'	-5.92	118.80	126.50
1	BA	1433	A	C4-C5-C6	5.92	119.96	117.00
25	CA	489	G	N3-C4-N9	-5.92	122.45	126.00
25	CA	1604	C	C2-N3-C4	-5.92	116.94	119.90
25	DA	2462	C	C4-C5-C6	5.92	120.36	117.40
25	DA	1897	G	C5-C6-O6	-5.92	125.05	128.60
25	CA	48	G	C5-C6-O6	-5.92	125.05	128.60
25	CA	786	C	C6-N1-C2	5.92	122.67	120.30
25	CA	1340	U	N3-C4-O4	-5.92	115.26	119.40
25	DA	1895	C	C6-N1-C2	5.92	122.67	120.30
25	CA	342	A	C2-N3-C4	-5.92	107.64	110.60
25	CA	1089	A	N1-C6-N6	-5.92	115.05	118.60
1	BA	286	C	C6-N1-C2	5.92	122.67	120.30
25	DA	1197	G	N1-C6-O6	5.92	123.45	119.90
25	CA	2251	G	C6-N1-C2	-5.91	121.55	125.10
25	DA	308	G	C8-N9-C1'	-5.91	119.31	127.00
25	CA	691	C	N1-C2-O2	-5.91	115.35	118.90
25	CA	1158	C	N1-C2-O2	-5.91	115.35	118.90
25	CA	1811	G	C5-C6-O6	-5.91	125.05	128.60
25	CA	2351	G	C5-C6-O6	-5.91	125.05	128.60
25	DA	2011	U	N1-C2-O2	-5.91	118.66	122.80
1	BA	134	G	C8-N9-C4	5.91	108.76	106.40
25	CA	398	C	N1-C2-O2	-5.91	115.36	118.90
25	CA	901	C	C5-C6-N1	-5.91	118.05	121.00
25	CA	2807	U	C2-N1-C1'	-5.91	110.61	117.70
25	DA	1756	G	N1-C6-O6	5.91	123.44	119.90
56	DB	76	G	N1-C6-O6	-5.91	116.35	119.90
26	CB	4	C	C6-N1-C2	5.91	122.66	120.30
1	AA	283	U	N1-C2-O2	5.91	126.93	122.80
25	CA	476	G	N1-C6-O6	-5.91	116.36	119.90
25	CA	827	U	N1-C2-O2	-5.91	118.67	122.80
25	DA	1290	C	C2-N1-C1'	-5.91	112.30	118.80
1	BA	498	A	C8-N9-C4	5.90	108.16	105.80
25	CA	242	G	N1-C6-O6	-5.90	116.36	119.90
25	CA	725	G	C4-N9-C1'	5.90	134.17	126.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	783	A	C6-C5-N7	-5.90	128.17	132.30
25	CA	784	G	C5-C6-O6	-5.90	125.06	128.60
25	DA	376	G	C5-C6-O6	-5.90	125.06	128.60
1	AA	297	G	C2-N3-C4	-5.90	108.95	111.90
25	CA	526	A	N9-C4-C5	5.90	108.16	105.80
25	CA	764	A	N9-C4-C5	5.90	108.16	105.80
25	CA	1423	G	N9-C4-C5	5.90	107.76	105.40
25	CA	2271	G	N1-C2-N2	-5.90	110.89	116.20
25	DA	526	A	N1-C6-N6	-5.90	115.06	118.60
25	CA	814	C	C2-N3-C4	-5.90	116.95	119.90
25	CA	1038	G	N3-C4-N9	5.90	129.54	126.00
25	CA	2553	G	C8-N9-C1'	-5.90	119.33	127.00
25	DA	2452	C	C6-N1-C2	-5.90	117.94	120.30
25	CA	555	G	N1-C2-N2	-5.90	110.89	116.20
25	CA	906	U	C5-C4-O4	5.90	129.44	125.90
25	CA	1721	G	N3-C4-C5	-5.89	125.65	128.60
25	DA	2021	C	N1-C2-O2	-5.89	115.36	118.90
25	CA	1277	G	C5-C6-O6	5.89	132.14	128.60
25	CA	1855	U	N3-C4-O4	5.89	123.53	119.40
25	DA	1125	G	N9-C4-C5	-5.89	103.04	105.40
25	DA	1757	A	N3-C4-C5	-5.89	122.68	126.80
25	CA	1981	A	N9-C4-C5	5.89	108.16	105.80
25	DA	1998	A	N1-C2-N3	5.89	132.25	129.30
25	DA	2848	G	N1-C6-O6	-5.89	116.36	119.90
25	CA	2239	G	C8-N9-C4	5.89	108.76	106.40
25	CA	2251	G	C5-C6-N1	5.89	114.44	111.50
25	DA	998	C	C6-N1-C2	-5.89	117.94	120.30
1	AA	53	A	C5-C6-N6	-5.89	118.99	123.70
1	BA	429	U	N3-C2-O2	-5.89	118.08	122.20
25	CA	989	G	C5-C6-O6	-5.89	125.07	128.60
25	CA	1216	G	C5-C6-N1	5.89	114.44	111.50
25	CA	2254	C	N3-C2-O2	5.89	126.02	121.90
25	DA	1719	G	N3-C4-N9	-5.89	122.47	126.00
1	AA	1101	A	C4-C5-C6	5.88	119.94	117.00
1	BA	1531	A	N9-C4-C5	-5.88	103.45	105.80
25	CA	310	A	C4-N9-C1'	-5.88	115.71	126.30
25	DA	1435	G	C6-C5-N7	5.88	133.93	130.40
25	DA	1904	G	N9-C4-C5	5.88	107.75	105.40
25	DA	2510	C	N3-C2-O2	5.88	126.02	121.90
1	AA	794	A	C5-C6-N6	5.88	128.41	123.70
1	AA	1524	C	C2-N1-C1'	-5.88	112.33	118.80
25	CA	2774	C	N3-C2-O2	5.88	126.02	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2805	C	N1-C2-O2	-5.88	115.37	118.90
25	DA	786	C	N3-C4-C5	5.88	124.25	121.90
25	DA	509	C	N3-C4-C5	5.88	124.25	121.90
25	DA	1135	C	C2-N3-C4	-5.88	116.96	119.90
1	BA	26	A	C6-N1-C2	-5.88	115.07	118.60
25	CA	533	G	C2-N3-C4	-5.88	108.96	111.90
26	CB	93	C	N1-C2-O2	-5.88	115.37	118.90
25	DA	2633	G	C6-C5-N7	5.88	133.93	130.40
22	BV	13	C	C6-N1-C2	5.88	122.65	120.30
25	CA	444	C	N3-C2-O2	5.88	126.01	121.90
25	CA	2425	A	P-O3'-C3'	5.88	126.75	119.70
25	CA	2825	G	C8-N9-C1'	-5.88	119.36	127.00
25	CA	2832	U	N1-C2-O2	-5.88	118.69	122.80
25	CA	486	C	N3-C2-O2	5.88	126.01	121.90
25	CA	2069	G	C4-C5-N7	5.88	113.15	110.80
25	CA	2820	A	C5-C6-N1	-5.88	114.76	117.70
25	DA	1136	G	C4-C5-N7	5.88	113.15	110.80
25	CA	971	G	C5-C6-N1	5.87	114.44	111.50
25	CA	2553	G	C4-N9-C1'	5.87	134.14	126.50
25	CA	2557	G	N1-C6-O6	5.87	123.42	119.90
1	AA	105	G	C5-C6-O6	5.87	132.12	128.60
25	CA	1024	G	C6-C5-N7	-5.87	126.88	130.40
25	CA	2025	C	N3-C2-O2	-5.87	117.79	121.90
25	DA	770	G	N3-C4-C5	5.87	131.53	128.60
25	DA	862	G	N9-C4-C5	-5.87	103.05	105.40
25	DA	2825	G	N9-C4-C5	-5.87	103.05	105.40
1	AA	584	G	C8-N9-C4	5.87	108.75	106.40
1	BA	26	A	C5-C6-N1	5.87	120.64	117.70
25	DA	2520	C	C6-N1-C2	5.87	122.65	120.30
1	AA	853	C	N1-C2-O2	-5.87	115.38	118.90
25	CA	1228	G	N3-C4-N9	-5.87	122.48	126.00
25	DA	2049	G	C4-C5-N7	5.87	113.15	110.80
25	CA	2475	C	C6-N1-C2	5.87	122.65	120.30
25	CA	818	G	C4-N9-C1'	5.87	134.12	126.50
25	DA	1972	G	C8-N9-C4	-5.87	104.05	106.40
25	CA	1596	A	C8-N9-C4	5.86	108.15	105.80
25	CA	1761	C	N3-C4-N4	5.86	122.10	118.00
25	CA	2751	G	C8-N9-C4	-5.86	104.06	106.40
25	DA	2556	C	C6-N1-C2	-5.86	117.95	120.30
1	BA	1175	G	C4-N9-C1'	-5.86	118.88	126.50
25	CA	125	A	N9-C4-C5	5.86	108.14	105.80
25	CA	1255	U	N1-C2-O2	-5.86	118.70	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	529	A	N1-C6-N6	-5.86	115.08	118.60
25	CA	1209	U	N3-C2-O2	5.86	126.30	122.20
25	CA	1402	U	C6-N1-C2	5.86	124.51	121.00
25	CA	1623	G	C2-N3-C4	-5.86	108.97	111.90
25	CA	2632	A	C8-N9-C4	-5.86	103.46	105.80
25	CA	1155	A	N7-C8-N9	-5.85	110.87	113.80
25	DA	319	G	C2-N3-C4	-5.85	108.97	111.90
1	BA	1079	G	N3-C4-C5	-5.85	125.67	128.60
25	CA	9	G	C6-C5-N7	-5.85	126.89	130.40
25	CA	1277	G	C4-C5-N7	-5.85	108.46	110.80
1	AA	938	A	N1-C6-N6	-5.85	115.09	118.60
1	BA	669	G	C8-N9-C4	-5.85	104.06	106.40
25	CA	1403	A	N1-C6-N6	5.85	122.11	118.60
25	CA	2271	G	C8-N9-C1'	-5.85	119.40	127.00
25	CA	2901	C	C6-N1-C2	-5.85	117.96	120.30
25	DA	468	G	C5-C6-N1	5.85	114.42	111.50
1	BA	297	G	N9-C4-C5	-5.85	103.06	105.40
25	CA	468	G	N3-C4-C5	-5.85	125.68	128.60
25	CA	906	U	C6-N1-C1'	5.85	129.39	121.20
25	CA	2793	C	C6-N1-C2	5.85	122.64	120.30
25	CA	1256	G	C8-N9-C1'	-5.85	119.40	127.00
25	CA	1966	A	N1-C6-N6	5.84	122.11	118.60
25	CA	2391	G	O4'-C1'-N9	5.84	112.87	108.20
25	DA	1395	A	C8-N9-C4	5.84	108.14	105.80
25	DA	45	G	C4-C5-N7	-5.84	108.46	110.80
1	AA	275	G	N3-C4-N9	5.84	129.50	126.00
1	BA	457	G	N3-C4-C5	-5.84	125.68	128.60
25	CA	1981	A	C4-C5-N7	-5.84	107.78	110.70
1	AA	881	G	N1-C6-O6	5.84	123.40	119.90
1	AA	1513	A	N7-C8-N9	-5.84	110.88	113.80
25	CA	2004	G	N1-C2-N3	5.84	127.40	123.90
25	CA	2520	C	N3-C4-N4	5.84	122.08	118.00
1	BA	823	C	C6-N1-C2	5.83	122.63	120.30
25	CA	2254	C	N3-C4-N4	5.83	122.08	118.00
25	DA	1000	A	N1-C6-N6	-5.83	115.10	118.60
25	CA	1315	C	N1-C2-N3	5.83	123.28	119.20
25	DA	1681	G	C8-N9-C1'	-5.83	119.42	127.00
1	AA	957	U	C6-N1-C2	-5.83	117.50	121.00
1	AA	971	G	C4-N9-C1'	-5.83	118.92	126.50
25	CA	310	A	C8-N9-C1'	5.83	138.20	127.70
25	CA	757	G	N3-C4-C5	5.83	131.52	128.60
25	DA	506	G	N3-C4-C5	-5.83	125.68	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2452	C	C2-N1-C1'	5.83	125.22	118.80
22	BV	40	C	N1-C2-O2	5.83	122.40	118.90
25	CA	1624	U	C6-N1-C2	5.83	124.50	121.00
25	CA	1769	U	C2-N3-C4	-5.83	123.50	127.00
1	BA	241	G	C8-N9-C4	-5.83	104.07	106.40
25	CA	1343	G	N3-C4-N9	5.83	129.50	126.00
25	CA	1816	C	C2-N1-C1'	-5.83	112.39	118.80
1	BA	897	C	C6-N1-C2	5.82	122.63	120.30
25	CA	342	A	N9-C4-C5	-5.82	103.47	105.80
25	CA	558	U	N1-C2-O2	-5.82	118.72	122.80
25	CA	861	A	N9-C4-C5	5.82	108.13	105.80
25	CA	1134	A	C2-N3-C4	-5.82	107.69	110.60
25	CA	1381	G	C5-C6-O6	5.82	132.09	128.60
25	DA	1934	C	C2-N3-C4	-5.82	116.99	119.90
25	CA	1359	A	C6-N1-C2	-5.82	115.11	118.60
1	BA	68	G	C8-N9-C4	-5.82	104.07	106.40
25	CA	291	G	N1-C6-O6	5.82	123.39	119.90
25	CA	302	C	N3-C4-C5	5.82	124.23	121.90
25	CA	2286	G	N3-C4-N9	-5.82	122.51	126.00
25	CA	2688	G	C8-N9-C4	-5.82	104.07	106.40
1	BA	858	G	N1-C6-O6	-5.82	116.41	119.90
25	CA	424	G	C8-N9-C4	5.82	108.73	106.40
25	CA	1816	C	N1-C2-O2	-5.82	115.41	118.90
25	CA	2346	A	N1-C6-N6	-5.82	115.11	118.60
25	CA	2365	G	C6-C5-N7	-5.82	126.91	130.40
25	CA	2840	C	C5-C4-N4	-5.82	116.13	120.20
25	DA	822	G	C5-N7-C8	-5.82	101.39	104.30
25	CA	1623	G	C5-N7-C8	-5.82	101.39	104.30
25	DA	515	A	N1-C6-N6	-5.81	115.11	118.60
1	BA	64	G	N1-C6-O6	5.81	123.39	119.90
1	BA	806	C	C6-N1-C2	-5.81	117.97	120.30
25	CA	371	A	C2-N3-C4	-5.81	107.69	110.60
25	CA	628	G	N1-C6-O6	-5.81	116.41	119.90
25	CA	2803	G	C5-C6-O6	5.81	132.09	128.60
25	CA	2894	G	C8-N9-C4	5.81	108.72	106.40
25	DA	242	G	C5-C6-N1	5.81	114.41	111.50
1	AA	337	G	C5-C6-N1	5.81	114.41	111.50
1	AA	1286	U	C2-N1-C1'	5.81	124.67	117.70
25	CA	793	A	N9-C4-C5	5.81	108.12	105.80
25	CA	2230	G	C4-C5-N7	-5.81	108.48	110.80
25	DA	694	U	N3-C2-O2	-5.81	118.13	122.20
25	DA	2012	G	N1-C6-O6	5.81	123.39	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2707	U	C2-N1-C1'	-5.81	110.73	117.70
1	BA	308	C	C6-N1-C2	-5.81	117.98	120.30
25	CA	476	G	C4-C5-N7	-5.81	108.48	110.80
25	CA	726	G	C4-C5-N7	5.81	113.12	110.80
25	CA	2689	U	C5-C4-O4	5.81	129.38	125.90
25	CA	2859	G	N9-C4-C5	5.81	107.72	105.40
25	DA	2681	C	N1-C2-O2	5.81	122.38	118.90
1	AA	1478	U	N3-C4-O4	-5.81	115.34	119.40
4	BD	160	LEU	CA-CB-CG	5.80	128.65	115.30
25	CA	77	G	N3-C2-N2	-5.80	115.84	119.90
25	DA	562	U	C2-N1-C1'	-5.80	110.73	117.70
25	DA	1234	U	N3-C4-O4	-5.80	115.34	119.40
25	DA	2518	A	C6-C5-N7	-5.80	128.24	132.30
25	CA	1289	C	C6-N1-C2	5.80	122.62	120.30
25	CA	2475	C	N3-C2-O2	5.80	125.96	121.90
42	DR	9	GLY	N-CA-C	-5.80	98.59	113.10
25	CA	656	G	N3-C4-C5	5.80	131.50	128.60
25	CA	2092	U	N3-C2-O2	-5.80	118.14	122.20
25	DA	556	A	C8-N9-C4	5.80	108.12	105.80
25	DA	1813	G	C8-N9-C4	5.80	108.72	106.40
25	DA	2006	C	C5-C4-N4	-5.80	116.14	120.20
25	CA	2409	G	C2-N3-C4	-5.80	109.00	111.90
25	CA	2733	A	N1-C6-N6	-5.80	115.12	118.60
25	DA	1653	G	N9-C4-C5	-5.80	103.08	105.40
25	DA	809	G	N3-C2-N2	-5.80	115.84	119.90
25	DA	1518	C	C6-N1-C2	5.80	122.62	120.30
25	CA	1150	C	C2-N3-C4	-5.79	117.00	119.90
25	CA	2745	C	C5-C4-N4	-5.79	116.14	120.20
25	DA	527	C	C6-N1-C1'	5.79	127.75	120.80
25	DA	559	G	C8-N9-C4	5.79	108.72	106.40
25	DA	2689	U	C6-N1-C1'	5.79	129.31	121.20
6	AF	86	ARG	NE-CZ-NH1	5.79	123.20	120.30
25	CA	1620	G	C5-C6-O6	5.79	132.08	128.60
25	DA	177	G	N3-C4-N9	5.79	129.48	126.00
25	DA	2709	G	C4-C5-N7	5.79	113.12	110.80
25	CA	317	G	C5-C6-O6	-5.79	125.12	128.60
25	DA	2609	U	C6-N1-C2	5.79	124.47	121.00
1	AA	188	C	C2-N1-C1'	5.79	125.17	118.80
1	AA	1484	C	N3-C2-O2	5.79	125.95	121.90
25	CA	1010	A	C5-C6-N1	5.79	120.59	117.70
25	CA	1913	A	N9-C4-C5	-5.79	103.48	105.80
25	DA	2568	U	C5-C6-N1	-5.79	119.81	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	1362	A	C8-N9-C4	5.79	108.12	105.80
25	CA	735	A	N1-C2-N3	5.79	132.19	129.30
25	CA	2422	C	N3-C2-O2	5.79	125.95	121.90
25	DA	822	G	C5-C6-O6	-5.79	125.13	128.60
25	DA	1954	G	N1-C6-O6	5.79	123.37	119.90
25	DA	2827	C	N3-C4-C5	5.79	124.22	121.90
43	DS	20	VAL	CB-CA-C	-5.79	100.40	111.40
25	CA	1902	C	C5-C6-N1	-5.79	118.11	121.00
25	CA	194	G	N9-C4-C5	-5.79	103.09	105.40
25	CA	1470	A	N1-C6-N6	-5.79	115.13	118.60
25	DA	984	A	C8-N9-C4	5.79	108.11	105.80
25	DA	1217	U	N3-C4-C5	5.79	118.07	114.60
25	CA	1443	U	C2-N1-C1'	5.78	124.64	117.70
25	CA	2876	G	N1-C6-O6	-5.78	116.43	119.90
25	DA	1300	G	N9-C4-C5	-5.78	103.09	105.40
25	DA	2048	G	N1-C6-O6	-5.78	116.43	119.90
1	BA	299	G	N1-C6-O6	-5.78	116.43	119.90
25	CA	1685	C	N3-C2-O2	5.78	125.94	121.90
25	DA	1643	G	C8-N9-C4	5.78	108.71	106.40
25	CA	2640	G	N1-C6-O6	-5.78	116.43	119.90
1	AA	212	G	N3-C4-C5	-5.78	125.71	128.60
1	BA	400	C	C6-N1-C2	5.78	122.61	120.30
25	CA	584	C	N3-C4-C5	5.78	124.21	121.90
25	CA	2426	A	C6-C5-N7	-5.78	128.26	132.30
25	DA	1928	A	N1-C6-N6	5.78	122.07	118.60
25	CA	1426	G	C4-N9-C1'	5.77	134.00	126.50
25	DA	675	A	N1-C6-N6	5.77	122.06	118.60
25	CA	46	G	C8-N9-C4	-5.77	104.09	106.40
25	CA	497	A	C5-C6-N6	-5.77	119.08	123.70
25	CA	624	C	C6-N1-C1'	5.77	127.72	120.80
25	CA	1327	A	C2-N3-C4	-5.77	107.72	110.60
25	DA	1149	G	C8-N9-C4	5.77	108.71	106.40
25	CA	993	G	N3-C4-C5	-5.77	125.72	128.60
25	CA	1289	C	C2-N3-C4	-5.77	117.02	119.90
25	CA	1692	U	N1-C2-O2	-5.77	118.76	122.80
1	AA	145	G	C5-C6-O6	5.76	132.06	128.60
25	CA	1327	A	C5-C6-N1	-5.76	114.82	117.70
25	DA	1957	C	N1-C2-O2	-5.76	115.44	118.90
25	DA	1985	C	C6-N1-C1'	5.76	127.72	120.80
25	CA	1426	G	C8-N9-C1'	-5.76	119.51	127.00
25	CA	1657	U	N1-C2-O2	-5.76	118.77	122.80
25	DA	1653	G	C4-C5-N7	5.76	113.10	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	721	G	N9-C4-C5	5.76	107.70	105.40
25	CA	2538	C	C5-C4-N4	-5.76	116.17	120.20
25	CA	2710	C	C4-C5-C6	5.76	120.28	117.40
25	CA	1130	U	N1-C2-O2	5.76	126.83	122.80
25	CA	2076	U	N1-C2-N3	5.76	118.36	114.90
25	CA	2598	A	C5-C6-N6	5.76	128.31	123.70
25	DA	2870	C	C5-C6-N1	-5.76	118.12	121.00
1	AA	1498	U	C6-N1-C2	-5.76	117.55	121.00
25	CA	1050	A	C8-N9-C4	5.76	108.10	105.80
25	CA	1126	A	C5-C6-N6	-5.76	119.09	123.70
25	CA	1555	G	C4-N9-C1'	5.76	133.98	126.50
25	CA	2831	G	N3-C4-N9	5.76	129.45	126.00
25	DA	1155	A	N1-C6-N6	-5.76	115.15	118.60
25	DA	1950	G	C5-C6-O6	5.76	132.05	128.60
25	CA	1287	A	N1-C2-N3	5.75	132.18	129.30
25	DA	468	G	C5-C6-O6	-5.75	125.15	128.60
25	CA	961	C	N3-C4-C5	-5.75	119.60	121.90
25	CA	1971	U	C6-N1-C2	5.75	124.45	121.00
25	DA	442	G	N9-C4-C5	5.75	107.70	105.40
25	CA	184	C	C6-N1-C2	-5.75	118.00	120.30
25	CA	686	U	C2-N1-C1'	-5.75	110.80	117.70
26	CB	71	C	C6-N1-C2	5.75	122.60	120.30
25	DA	661	A	C5-C6-N1	5.75	120.58	117.70
25	DA	1251	C	C6-N1-C2	-5.75	118.00	120.30
25	DA	2461	A	C4-C5-C6	5.75	119.88	117.00
25	CA	624	C	N3-C2-O2	5.75	125.92	121.90
25	DA	209	C	C6-N1-C2	5.75	122.60	120.30
25	DA	791	C	C6-N1-C2	5.75	122.60	120.30
1	AA	633	G	C8-N9-C4	-5.75	104.10	106.40
25	CA	446	G	N9-C4-C5	-5.75	103.10	105.40
1	AA	21	G	N3-C4-C5	-5.75	125.73	128.60
1	BA	713	G	C6-C5-N7	5.75	133.85	130.40
1	BA	1029	U	C2-N1-C1'	5.75	124.60	117.70
25	CA	463	G	C5-C6-O6	5.75	132.05	128.60
25	CA	821	A	N7-C8-N9	-5.75	110.93	113.80
25	CA	1183	U	N1-C2-N3	5.75	118.35	114.90
25	CA	1552	A	N9-C4-C5	5.75	108.10	105.80
25	CA	1988	G	C2-N3-C4	-5.75	109.03	111.90
25	DA	2426	A	N9-C4-C5	5.75	108.10	105.80
25	CA	2396	G	C5-C6-O6	5.75	132.05	128.60
25	DA	1720	U	N3-C4-O4	-5.74	115.38	119.40
25	CA	1817	G	C8-N9-C4	5.74	108.70	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1277	G	C4-N9-C1'	-5.74	119.03	126.50
25	DA	2444	G	C5-C6-O6	5.74	132.04	128.60
1	AA	283	U	C6-N1-C1'	-5.74	113.16	121.20
26	CB	47	C	C6-N1-C2	5.74	122.60	120.30
25	CA	342	A	C4-C5-N7	5.74	113.57	110.70
25	CA	2433	A	C8-N9-C4	5.74	108.09	105.80
25	DA	2616	C	C6-N1-C2	5.74	122.59	120.30
25	DA	2840	C	C6-N1-C1'	5.74	127.69	120.80
1	AA	1458	G	C8-N9-C4	5.74	108.69	106.40
25	CA	147	C	N1-C2-O2	-5.74	115.46	118.90
25	CA	832	U	N1-C2-N3	5.74	118.34	114.90
1	BA	615	G	N3-C2-N2	5.74	123.92	119.90
25	CA	582	A	C4-C5-C6	5.74	119.87	117.00
25	CA	1040	A	N1-C6-N6	5.74	122.04	118.60
1	AA	312	C	C2-N3-C4	-5.73	117.03	119.90
25	CA	489	G	N9-C4-C5	5.73	107.69	105.40
25	CA	1612	C	C5-C4-N4	-5.73	116.19	120.20
25	CA	1764	C	C6-N1-C2	5.73	122.59	120.30
1	AA	1408	A	N3-C4-C5	5.73	130.81	126.80
25	CA	101	A	C6-C5-N7	-5.73	128.29	132.30
26	CB	24	G	N3-C4-C5	-5.73	125.73	128.60
25	DA	2419	U	C5-C6-N1	-5.73	119.83	122.70
25	CA	979	A	N9-C4-C5	-5.73	103.51	105.80
25	CA	1893	C	N1-C2-O2	-5.73	115.46	118.90
25	DA	2	G	C8-N9-C4	5.73	108.69	106.40
25	CA	1360	G	N1-C6-O6	-5.73	116.46	119.90
25	CA	2424	C	N3-C4-C5	-5.73	119.61	121.90
25	DA	325	G	N7-C8-N9	-5.73	110.24	113.10
25	CA	482	A	C6-C5-N7	-5.73	128.29	132.30
25	CA	2056	G	C5-C6-O6	-5.73	125.16	128.60
25	DA	780	G	N3-C2-N2	5.73	123.91	119.90
1	BA	357	G	N1-C6-O6	5.72	123.33	119.90
25	CA	1224	U	C6-N1-C1'	5.72	129.22	121.20
1	BA	106	C	N3-C2-O2	5.72	125.91	121.90
25	CA	522	A	C8-N9-C4	5.72	108.09	105.80
25	CA	536	G	N3-C4-C5	5.72	131.46	128.60
25	CA	1195	G	N1-C6-O6	-5.72	116.47	119.90
25	CA	2082	A	C4-C5-C6	5.72	119.86	117.00
25	CA	2248	C	C2-N3-C4	-5.72	117.04	119.90
25	CA	2448	A	C5-C6-N1	-5.72	114.84	117.70
25	CA	2571	U	N1-C2-N3	5.72	118.33	114.90
25	CA	2880	C	C6-N1-C2	-5.72	118.01	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	782	A	N3-C4-N9	-5.72	122.82	127.40
25	DA	1142	A	C6-C5-N7	-5.72	128.29	132.30
25	DA	2427	C	N1-C2-O2	-5.72	115.47	118.90
1	BA	1081	A	N1-C6-N6	5.72	122.03	118.60
25	CA	640	C	N1-C2-O2	-5.72	115.47	118.90
25	DA	1818	U	C6-N1-C2	5.72	124.43	121.00
25	CA	1303	G	C8-N9-C4	5.72	108.69	106.40
25	DA	488	G	N3-C2-N2	5.72	123.90	119.90
1	BA	846	G	N1-C6-O6	-5.72	116.47	119.90
1	BA	1402	C	N1-C2-O2	-5.72	115.47	118.90
25	CA	2306	C	C6-N1-C2	-5.72	118.01	120.30
25	DA	592	A	C2-N3-C4	5.72	113.46	110.60
25	CA	411	G	N1-C2-N3	5.71	127.33	123.90
25	CA	482	A	C5-C6-N6	-5.71	119.13	123.70
25	CA	1223	G	C8-N9-C4	5.71	108.69	106.40
25	DA	1562	U	N3-C2-O2	-5.71	118.20	122.20
25	DA	1668	A	C6-N1-C2	-5.71	115.17	118.60
25	CA	2555	U	N1-C2-O2	-5.71	118.80	122.80
25	DA	442	G	C2-N3-C4	5.71	114.76	111.90
1	AA	869	G	C5-C6-O6	-5.71	125.17	128.60
25	CA	1061	U	C2-N1-C1'	5.71	124.55	117.70
25	CA	1113	U	N3-C2-O2	5.71	126.20	122.20
25	CA	1232	G	N3-C2-N2	5.71	123.90	119.90
25	CA	1608	A	C2-N3-C4	-5.71	107.74	110.60
25	DA	455	C	C5-C4-N4	-5.71	116.20	120.20
25	DA	943	A	C5-C6-N1	-5.71	114.84	117.70
25	CA	757	G	C8-N9-C4	5.71	108.68	106.40
1	AA	836	G	N1-C6-O6	5.71	123.33	119.90
1	BA	546	A	N1-C6-N6	-5.71	115.17	118.60
25	CA	733	G	C4-C5-N7	5.71	113.08	110.80
25	CA	2866	U	N3-C4-O4	-5.71	115.41	119.40
26	CB	117	G	N3-C4-C5	5.71	131.45	128.60
25	CA	1767	G	C5-C6-N1	-5.71	108.65	111.50
1	BA	283	U	C6-N1-C1'	-5.71	113.21	121.20
1	AA	530	G	C4-C5-N7	5.70	113.08	110.80
1	AA	872	A	C8-N9-C4	-5.70	103.52	105.80
1	BA	109	A	N3-C4-C5	5.70	130.79	126.80
25	CA	944	C	N1-C2-O2	-5.70	115.48	118.90
25	CA	989	G	N3-C2-N2	-5.70	115.91	119.90
25	CA	2605	U	C2-N3-C4	5.70	130.42	127.00
25	DA	1300	G	N3-C2-N2	5.70	123.89	119.90
25	DA	2573	C	N1-C2-O2	-5.70	115.48	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	CB	46	A	N9-C4-C5	5.70	108.08	105.80
1	AA	921	U	C5-C4-O4	-5.70	122.48	125.90
25	CA	926	G	C2-N3-C4	-5.70	109.05	111.90
25	CA	1340	U	C6-N1-C1'	5.70	129.18	121.20
25	DA	2133	G	C4-N9-C1'	5.70	133.91	126.50
1	BA	768	A	N1-C6-N6	5.70	122.02	118.60
25	CA	1396	U	C2-N1-C1'	-5.70	110.86	117.70
25	CA	1595	C	N3-C2-O2	5.70	125.89	121.90
25	CA	1977	A	N3-C4-C5	5.70	130.79	126.80
26	CB	55	U	N1-C2-N3	5.70	118.32	114.90
25	CA	141	G	N3-C4-C5	-5.70	125.75	128.60
25	CA	1318	U	N3-C4-O4	-5.70	115.41	119.40
25	DA	2041	U	N1-C2-O2	-5.70	118.81	122.80
25	CA	241	A	C2-N3-C4	-5.70	107.75	110.60
25	CA	656	G	C2-N3-C4	-5.70	109.05	111.90
25	CA	1952	A	N1-C6-N6	-5.70	115.18	118.60
25	DA	1912	A	C8-N9-C4	5.70	108.08	105.80
25	CA	93	G	C5-N7-C8	5.69	107.15	104.30
25	CA	1842	G	C5-C6-O6	-5.69	125.18	128.60
25	DA	2595	G	C8-N9-C4	5.69	108.68	106.40
25	CA	1842	G	C8-N9-C1'	-5.69	119.60	127.00
25	DA	838	C	C5-C6-N1	-5.69	118.16	121.00
25	DA	1556	C	C6-N1-C2	5.69	122.58	120.30
25	DA	397	U	C6-N1-C2	5.69	124.41	121.00
25	DA	822	G	C2-N3-C4	-5.69	109.06	111.90
1	AA	690	G	N9-C4-C5	-5.69	103.12	105.40
1	BA	971	G	N3-C4-C5	-5.69	125.76	128.60
25	CA	60	G	P-O3'-C3'	5.69	126.53	119.70
25	CA	2676	C	C5-C4-N4	-5.69	116.22	120.20
25	DA	493	G	C8-N9-C1'	5.69	134.39	127.00
1	AA	957	U	N3-C2-O2	-5.68	118.22	122.20
1	AA	1174	G	C8-N9-C1'	5.68	134.39	127.00
1	BA	145	G	N3-C4-N9	-5.68	122.59	126.00
1	BA	1530	G	N3-C4-N9	-5.68	122.59	126.00
25	CA	1466	U	N3-C2-O2	5.68	126.18	122.20
25	CA	2485	G	N1-C6-O6	5.68	123.31	119.90
1	AA	822	U	N1-C2-O2	-5.68	118.82	122.80
1	BA	384	G	N1-C6-O6	-5.68	116.49	119.90
25	CA	1166	G	N1-C6-O6	5.68	123.31	119.90
25	CA	2395	C	N3-C4-N4	5.68	121.98	118.00
25	DA	2631	G	N3-C2-N2	-5.68	115.92	119.90
25	DA	621	A	C8-N9-C4	-5.68	103.53	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	209	U	C6-N1-C1'	-5.68	113.25	121.20
25	CA	786	C	N1-C2-O2	-5.68	115.49	118.90
25	CA	1024	G	C5-N7-C8	-5.68	101.46	104.30
25	CA	1961	C	N1-C2-O2	5.68	122.31	118.90
25	CA	2030	A	C4-C5-N7	-5.68	107.86	110.70
25	CA	2085	U	C5-C6-N1	-5.68	119.86	122.70
25	DA	862	G	C6-C5-N7	-5.68	126.99	130.40
25	DA	1574	C	N1-C2-O2	-5.68	115.49	118.90
25	DA	2396	G	C4-N9-C1'	-5.68	119.12	126.50
1	AA	785	G	C5-C6-O6	-5.68	125.19	128.60
25	CA	1759	A	N1-C6-N6	-5.68	115.19	118.60
25	CA	2014	A	C8-N9-C4	-5.68	103.53	105.80
25	CA	1171	G	C8-N9-C4	-5.68	104.13	106.40
25	CA	1396	U	N3-C2-O2	-5.68	118.23	122.20
25	CA	2834	G	N3-C4-N9	5.68	129.41	126.00
25	DA	967	U	N1-C2-N3	5.68	118.31	114.90
1	BA	1081	A	C4-C5-C6	5.67	119.84	117.00
25	CA	1318	U	C5-C4-O4	5.67	129.30	125.90
25	DA	2367	G	C8-N9-C4	5.67	108.67	106.40
25	CA	1405	U	C2-N3-C4	-5.67	123.60	127.00
25	CA	914	G	N3-C4-N9	-5.67	122.60	126.00
25	DA	1161	C	C6-N1-C2	5.67	122.57	120.30
1	BA	771	G	C8-N9-C4	-5.67	104.13	106.40
25	CA	926	G	C5-C6-O6	5.67	132.00	128.60
25	DA	2165	C	C6-N1-C2	-5.67	118.03	120.30
1	AA	314	C	C6-N1-C2	5.67	122.57	120.30
1	AA	359	G	C8-N9-C4	5.67	108.67	106.40
25	CA	382	A	C5-N7-C8	-5.67	101.07	103.90
25	CA	497	A	C8-N9-C4	5.67	108.07	105.80
25	CA	1335	C	N1-C2-N3	5.67	123.17	119.20
25	CA	1552	A	N1-C6-N6	-5.67	115.20	118.60
25	CA	2802	G	C5-C6-O6	5.67	132.00	128.60
25	DA	2631	G	N3-C4-C5	5.67	131.43	128.60
1	BA	795	C	C2-N3-C4	-5.67	117.07	119.90
1	BA	1100	C	C6-N1-C2	-5.67	118.03	120.30
1	BA	1108	G	C5-C6-O6	5.67	132.00	128.60
25	DA	1254	A	C2-N3-C4	5.67	113.43	110.60
25	DA	748	G	N1-C6-O6	-5.66	116.50	119.90
25	DA	1786	A	C8-N9-C4	-5.66	103.53	105.80
25	DA	1827	U	N1-C2-N3	5.66	118.30	114.90
1	AA	506	G	C8-N9-C4	5.66	108.67	106.40
25	CA	1145	C	C2-N3-C4	-5.66	117.07	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	404	G	N3-C2-N2	5.66	123.86	119.90
25	DA	527	C	N1-C2-N3	5.66	123.16	119.20
25	DA	851	C	N1-C2-O2	-5.66	115.50	118.90
25	DA	1325	U	N3-C4-C5	5.66	118.00	114.60
25	DA	1452	G	C5-N7-C8	-5.66	101.47	104.30
1	BA	563	A	N7-C8-N9	5.66	116.63	113.80
25	CA	2468	A	C5-C6-N6	-5.66	119.17	123.70
25	CA	2691	C	C5-C4-N4	-5.66	116.24	120.20
25	CA	2867	G	C5-C6-N1	5.66	114.33	111.50
25	DA	203	A	C5-C6-N1	-5.66	114.87	117.70
25	DA	2357	G	C8-N9-C4	5.66	108.66	106.40
1	AA	292	G	N3-C4-C5	-5.66	125.77	128.60
1	AA	903	G	C5-C6-O6	5.66	131.99	128.60
25	CA	2803	G	C6-C5-N7	5.66	133.79	130.40
25	DA	2049	G	C8-N9-C1'	-5.65	119.65	127.00
1	AA	798	U	C5-C4-O4	-5.65	122.51	125.90
1	AA	1515	G	C5-C6-O6	-5.65	125.21	128.60
25	DA	208	C	N1-C2-O2	-5.65	115.51	118.90
25	DA	1265	A	N9-C4-C5	5.65	108.06	105.80
25	DA	399	U	C2-N1-C1'	-5.65	110.92	117.70
25	DA	686	U	C2-N1-C1'	-5.65	110.92	117.70
25	DA	822	G	C4-C5-N7	5.65	113.06	110.80
25	CA	733	G	C6-C5-N7	-5.65	127.01	130.40
25	CA	1299	G	N1-C6-O6	-5.65	116.51	119.90
25	CA	1897	G	C8-N9-C1'	-5.65	119.66	127.00
25	CA	1161	C	C6-N1-C2	5.65	122.56	120.30
25	CA	342	A	C6-C5-N7	-5.64	128.35	132.30
25	CA	784	G	N3-C4-N9	5.64	129.39	126.00
25	CA	809	G	N1-C6-O6	-5.64	116.51	119.90
25	CA	1525	A	C2-N3-C4	-5.64	107.78	110.60
25	CA	164	C	C2-N1-C1'	-5.64	112.59	118.80
25	CA	440	C	N1-C2-O2	-5.64	115.52	118.90
25	CA	1299	G	C5-C6-O6	5.64	131.99	128.60
25	CA	2520	C	N1-C2-O2	-5.64	115.52	118.90
25	CA	873	C	N1-C2-O2	-5.64	115.52	118.90
1	BA	1476	A	C8-N9-C4	5.64	108.06	105.80
25	CA	301	G	C3'-C2'-C1'	-5.64	96.99	101.50
25	CA	471	A	C5-C6-N6	-5.64	119.19	123.70
25	CA	1296	G	N1-C6-O6	5.64	123.28	119.90
25	CA	1971	U	N1-C2-N3	-5.64	111.52	114.90
25	CA	2271	G	N3-C4-C5	-5.64	125.78	128.60
25	CA	2375	G	N1-C2-N2	5.64	121.28	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	CB	85	G	C4-C5-N7	-5.64	108.54	110.80
25	DA	91	A	N1-C6-N6	5.64	121.98	118.60
25	DA	494	G	N1-C6-O6	5.64	123.28	119.90
25	CA	726	G	C4-C5-C6	5.64	122.18	118.80
25	CA	2442	C	N1-C2-O2	-5.64	115.52	118.90
25	CA	2805	C	C2-N1-C1'	-5.64	112.60	118.80
25	DA	11	C	N1-C2-O2	-5.64	115.52	118.90
25	DA	1009	A	C5-C6-N1	5.64	120.52	117.70
25	DA	1779	U	C6-N1-C2	5.64	124.38	121.00
25	DA	2239	G	C8-N9-C4	5.64	108.65	106.40
1	BA	779	C	N3-C2-O2	5.63	125.84	121.90
25	CA	187	G	N1-C6-O6	5.63	123.28	119.90
25	CA	516	C	N3-C2-O2	5.63	125.84	121.90
25	DA	519	U	N3-C4-O4	-5.63	115.46	119.40
1	AA	4	U	N3-C2-O2	-5.63	118.26	122.20
1	BA	211	G	N3-C2-N2	5.63	123.84	119.90
25	CA	1220	G	N3-C2-N2	5.63	123.84	119.90
25	CA	2897	U	N3-C4-C5	5.63	117.98	114.60
25	DA	808	G	C6-C5-N7	-5.63	127.02	130.40
25	DA	1567	G	C5-C6-O6	-5.63	125.22	128.60
25	CA	392	U	C5-C4-O4	-5.63	122.52	125.90
25	CA	992	C	C5-C6-N1	-5.63	118.19	121.00
25	DA	1719	G	C4-N9-C1'	-5.63	119.18	126.50
25	DA	1314	C	N1-C2-O2	5.63	122.28	118.90
25	DA	2809	A	C5-C6-N6	-5.63	119.20	123.70
25	DA	1300	G	C4-C5-N7	5.62	113.05	110.80
1	BA	898	G	N3-C2-N2	-5.62	115.96	119.90
1	BA	926	G	N9-C4-C5	5.62	107.65	105.40
25	CA	463	G	N3-C4-N9	-5.62	122.63	126.00
25	CA	930	G	C8-N9-C1'	5.62	134.31	127.00
25	CA	1954	G	N1-C6-O6	5.62	123.27	119.90
25	CA	304	U	N3-C2-O2	5.62	126.13	122.20
25	CA	1762	A	N9-C4-C5	-5.62	103.55	105.80
25	CA	450	G	C2-N3-C4	5.62	114.71	111.90
25	DA	1761	C	N3-C2-O2	5.62	125.83	121.90
1	BA	377	G	C4-N9-C1'	5.62	133.81	126.50
25	CA	1265	A	N1-C2-N3	5.62	132.11	129.30
25	CA	2376	A	N1-C6-N6	-5.62	115.23	118.60
25	DA	1562	U	C6-N1-C2	-5.62	117.63	121.00
25	DA	2521	C	N1-C2-N3	5.62	123.13	119.20
1	AA	872	A	N7-C8-N9	5.62	116.61	113.80
1	AA	894	G	C2-N3-C4	-5.62	109.09	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1341	G	N9-C4-C5	-5.62	103.15	105.40
25	CA	589	U	N3-C4-O4	-5.62	115.47	119.40
25	CA	733	G	N1-C6-O6	5.62	123.27	119.90
25	CA	1608	A	C5-N7-C8	-5.62	101.09	103.90
25	DA	249	C	C6-N1-C2	5.62	122.55	120.30
25	DA	2294	G	C8-N9-C1'	5.62	134.30	127.00
25	CA	404	A	C6-C5-N7	-5.61	128.37	132.30
25	DA	2282	G	N9-C4-C5	5.61	107.65	105.40
25	CA	476	G	C5-C6-O6	5.61	131.97	128.60
25	CA	1563	U	C6-N1-C1'	5.61	129.06	121.20
25	DA	194	G	N1-C2-N3	5.61	127.27	123.90
25	CA	154	U	N3-C2-O2	-5.61	118.27	122.20
1	BA	497	G	C5-C6-N1	5.61	114.30	111.50
1	BA	713	G	N9-C4-C5	5.61	107.64	105.40
25	DA	592	A	C5-C6-N1	5.61	120.50	117.70
25	DA	1573	G	C4-N9-C1'	-5.61	119.21	126.50
25	DA	1846	G	C8-N9-C4	5.61	108.64	106.40
25	DA	2347	C	C5-C6-N1	-5.61	118.20	121.00
25	CA	634	C	N3-C2-O2	5.61	125.82	121.90
25	CA	790	U	C6-N1-C1'	5.61	129.05	121.20
25	CA	906	U	C5-C6-N1	-5.61	119.90	122.70
25	CA	2524	G	C5-C6-N1	5.61	114.30	111.50
1	BA	846	G	C8-N9-C4	-5.60	104.16	106.40
25	CA	276	U	N1-C2-O2	5.60	126.72	122.80
25	CA	439	A	C2-N3-C4	-5.60	107.80	110.60
25	CA	984	A	C6-C5-N7	-5.60	128.38	132.30
25	CA	1047	G	N1-C6-O6	5.60	123.26	119.90
40	CP	102	ARG	NE-CZ-NH1	5.60	123.10	120.30
25	DA	1796	U	N3-C2-O2	5.60	126.12	122.20
25	DA	2029	G	N3-C2-N2	5.60	123.82	119.90
25	DA	2396	G	N3-C4-N9	-5.60	122.64	126.00
1	AA	372	C	C6-N1-C2	5.60	122.54	120.30
25	DA	1708	C	C5-C6-N1	-5.60	118.20	121.00
25	CA	1040	A	N9-C4-C5	-5.60	103.56	105.80
25	CA	1590	A	N1-C6-N6	5.60	121.96	118.60
25	CA	1770	G	C5-C6-O6	-5.60	125.24	128.60
25	DA	39	G	C8-N9-C1'	5.60	134.28	127.00
25	DA	1759	A	N1-C6-N6	5.60	121.96	118.60
25	CA	1699	G	C4-C5-N7	-5.60	108.56	110.80
25	CA	2724	U	C5-C4-O4	5.60	129.26	125.90
25	CA	2878	U	N1-C2-O2	-5.60	118.88	122.80
1	AA	78	A	C6-N1-C2	-5.59	115.24	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	337	G	C6-C5-N7	5.59	133.76	130.40
1	BA	274	A	C2-N3-C4	5.59	113.40	110.60
1	BA	615	G	N3-C4-N9	5.59	129.36	126.00
1	AA	135	C	C6-N1-C2	5.59	122.54	120.30
25	CA	528	A	C5-C6-N6	-5.59	119.22	123.70
25	CA	1266	G	C5-C6-N1	5.59	114.30	111.50
25	CA	2248	C	C6-N1-C2	-5.59	118.06	120.30
1	AA	734	G	C8-N9-C1'	-5.59	119.73	127.00
25	CA	336	C	C4-C5-C6	-5.59	114.60	117.40
25	DA	560	C	C6-N1-C2	5.59	122.54	120.30
25	DA	1407	G	C4-N9-C1'	-5.59	119.23	126.50
1	BA	110	C	N3-C4-C5	-5.59	119.66	121.90
1	BA	685	G	C2-N3-C4	-5.59	109.11	111.90
1	BA	863	U	C5-C4-O4	-5.59	122.55	125.90
1	BA	1226	C	N3-C4-C5	-5.59	119.66	121.90
25	CA	1273	U	N1-C2-O2	-5.59	118.89	122.80
25	CA	2307	G	C6-C5-N7	5.59	133.75	130.40
25	CA	2711	A	N3-C4-C5	5.59	130.71	126.80
25	DA	2250	G	C2-N3-C4	-5.59	109.11	111.90
1	BA	312	C	N1-C2-O2	-5.59	115.55	118.90
51	C0	19	ASP	CB-CG-OD1	-5.59	113.27	118.30
1	AA	947	G	C8-N9-C4	5.59	108.63	106.40
25	CA	958	U	C2-N1-C1'	-5.59	111.00	117.70
25	DA	1038	G	N3-C4-C5	5.59	131.39	128.60
25	DA	2437	G	C5-C6-O6	-5.59	125.25	128.60
25	CA	389	G	N9-C4-C5	-5.58	103.17	105.40
25	DA	1668	A	C5-C6-N1	5.58	120.49	117.70
1	BA	516	U	N3-C2-O2	-5.58	118.29	122.20
25	CA	793	A	N1-C6-N6	-5.58	115.25	118.60
25	CA	2030	A	N9-C4-C5	5.58	108.03	105.80
25	CA	2710	C	N1-C2-O2	-5.58	115.55	118.90
25	DA	2466	C	N1-C2-O2	-5.58	115.55	118.90
1	AA	738	C	N3-C2-O2	5.58	125.81	121.90
1	AA	875	U	N3-C2-O2	-5.58	118.29	122.20
25	CA	2893	A	C6-N1-C2	-5.58	115.25	118.60
1	AA	834	U	N3-C2-O2	-5.58	118.29	122.20
1	AA	809	G	C8-N9-C4	5.58	108.63	106.40
1	AA	828	U	N3-C2-O2	5.58	126.11	122.20
25	CA	1110	G	N9-C4-C5	-5.58	103.17	105.40
25	CA	1125	G	N3-C4-N9	5.58	129.35	126.00
25	CA	2621	G	N3-C2-N2	-5.58	115.99	119.90
25	CA	2732	G	N3-C4-N9	-5.58	122.65	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	579	G	C6-C5-N7	5.58	133.75	130.40
25	DA	2354	C	N3-C2-O2	5.58	125.81	121.90
25	CA	1811	G	N3-C2-N2	-5.58	116.00	119.90
26	CB	24	G	N1-C6-O6	-5.58	116.55	119.90
25	CA	640	C	C6-N1-C2	5.58	122.53	120.30
25	CA	2760	C	C2-N3-C4	-5.58	117.11	119.90
25	DA	205	G	C5-C6-N1	5.58	114.29	111.50
25	DA	703	U	N3-C2-O2	5.58	126.10	122.20
25	DA	2696	U	N1-C2-O2	-5.58	118.90	122.80
1	AA	712	A	C6-N1-C2	-5.57	115.26	118.60
1	AA	1413	A	C5-N7-C8	-5.57	101.11	103.90
25	CA	116	C	C6-N1-C1'	5.57	127.49	120.80
25	CA	273	G	C8-N9-C1'	5.57	134.25	127.00
25	CA	2250	G	C5-C6-N1	-5.57	108.71	111.50
1	AA	814	A	C6-N1-C2	-5.57	115.26	118.60
25	CA	1427	A	C5-C6-N1	5.57	120.49	117.70
25	CA	2410	G	N3-C4-N9	5.57	129.34	126.00
25	DA	2252	G	C2-N3-C4	-5.57	109.11	111.90
25	CA	687	C	N1-C2-O2	-5.57	115.56	118.90
25	CA	2380	C	C2-N3-C4	-5.57	117.11	119.90
25	DA	10	A	N7-C8-N9	-5.57	111.02	113.80
1	AA	679	C	C2-N1-C1'	5.57	124.93	118.80
25	DA	1584	U	C2-N1-C1'	5.57	124.38	117.70
25	DA	1843	C	C5-C4-N4	-5.57	116.30	120.20
1	BA	136	C	N3-C2-O2	5.57	125.80	121.90
25	CA	1022	G	C2-N3-C4	-5.57	109.12	111.90
26	CB	113	C	N1-C2-O2	-5.57	115.56	118.90
25	DA	194	G	C2-N3-C4	-5.57	109.12	111.90
25	DA	726	G	N3-C4-C5	5.57	131.38	128.60
1	AA	874	G	N3-C4-C5	-5.57	125.82	128.60
25	CA	1393	A	N1-C6-N6	-5.57	115.26	118.60
25	DA	110	G	C4-N9-C1'	-5.57	119.26	126.50
25	DA	175	G	N3-C4-N9	-5.57	122.66	126.00
25	DA	1903	G	C5-C6-N1	5.57	114.28	111.50
25	CA	534	U	N1-C2-O2	-5.56	118.91	122.80
25	CA	2749	A	C2-N3-C4	-5.56	107.82	110.60
1	BA	357	G	N9-C4-C5	-5.56	103.17	105.40
25	CA	48	G	N3-C4-N9	5.56	129.34	126.00
25	CA	2135	A	C5-C6-N6	-5.56	119.25	123.70
25	DA	519	U	C5-C4-O4	5.56	129.24	125.90
25	DA	1403	A	C8-N9-C4	-5.56	103.58	105.80
1	BA	770	C	N3-C2-O2	-5.56	118.01	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2485	G	C8-N9-C4	5.56	108.62	106.40
1	AA	555	U	C2-N1-C1'	-5.56	111.03	117.70
25	DA	88	G	N3-C2-N2	-5.56	116.01	119.90
1	BA	234	C	N3-C2-O2	5.56	125.79	121.90
25	CA	1023	U	C2-N1-C1'	-5.56	111.03	117.70
25	CA	2008	C	C6-N1-C2	5.56	122.52	120.30
25	DA	1695	G	N3-C2-N2	5.56	123.79	119.90
1	BA	1433	A	C8-N9-C4	-5.56	103.58	105.80
25	DA	2794	C	C2-N1-C1'	5.56	124.91	118.80
16	BP	52	LEU	CA-CB-CG	5.55	128.07	115.30
25	CA	1955	U	C5-C6-N1	-5.55	119.92	122.70
25	DA	511	U	N1-C2-O2	5.55	126.69	122.80
25	DA	2228	G	N1-C6-O6	5.55	123.23	119.90
25	CA	302	C	C2-N3-C4	-5.55	117.12	119.90
25	CA	1208	C	C2-N3-C4	-5.55	117.12	119.90
25	CA	2717	C	N1-C2-O2	-5.55	115.57	118.90
22	AV	31	A	N9-C4-C5	-5.55	103.58	105.80
25	CA	509	C	N3-C4-N4	-5.55	114.11	118.00
25	CA	2382	G	C8-N9-C4	-5.55	104.18	106.40
25	CA	1388	G	C2-N3-C4	-5.55	109.12	111.90
25	CA	1608	A	C4-C5-N7	5.55	113.47	110.70
25	CA	2089	C	N1-C2-N3	5.55	123.08	119.20
25	CA	2632	A	N1-C6-N6	-5.55	115.27	118.60
25	CA	2851	A	C4-C5-C6	5.55	119.77	117.00
1	BA	357	G	C5-C6-O6	-5.55	125.27	128.60
25	CA	302	C	C5-C6-N1	-5.55	118.23	121.00
25	CA	1662	U	C5-C4-O4	5.55	129.23	125.90
25	CA	2783	U	C5-C4-O4	5.55	129.23	125.90
53	C2	10	LEU	CA-CB-CG	-5.55	102.54	115.30
25	DA	2771	C	C6-N1-C2	5.55	122.52	120.30
25	DA	1037	G	N3-C4-N9	-5.54	122.67	126.00
25	CA	708	G	C8-N9-C1'	5.54	134.21	127.00
25	DA	442	G	N3-C4-C5	-5.54	125.83	128.60
25	CA	462	C	N3-C4-C5	-5.54	119.68	121.90
25	CA	979	A	N3-C4-N9	5.54	131.83	127.40
25	CA	1936	A	C6-C5-N7	-5.54	128.42	132.30
25	DA	1277	G	C8-N9-C4	5.54	108.62	106.40
25	CA	2495	G	N1-C6-O6	-5.54	116.58	119.90
25	DA	869	G	C8-N9-C4	-5.54	104.18	106.40
1	AA	862	C	C6-N1-C2	-5.54	118.08	120.30
25	CA	395	U	N1-C2-O2	5.54	126.68	122.80
25	DA	3	U	N3-C4-C5	5.54	117.92	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	1406	U	C5-C6-N1	-5.54	119.93	122.70
25	CA	949	G	C5-C6-O6	5.54	131.92	128.60
25	DA	828	U	N3-C2-O2	-5.54	118.32	122.20
1	BA	875	U	C5-C4-O4	5.54	129.22	125.90
25	DA	61	C	C2-N1-C1'	5.54	124.89	118.80
25	DA	211	C	N3-C4-N4	-5.54	114.12	118.00
25	CA	2592	G	C5-C6-O6	5.53	131.92	128.60
25	DA	805	G	N3-C4-C5	5.53	131.37	128.60
25	CA	482	A	C4-C5-N7	5.53	113.47	110.70
25	CA	2269	G	C6-N1-C2	-5.53	121.78	125.10
25	CA	2692	G	N9-C4-C5	-5.53	103.19	105.40
25	DA	211	C	C5-C4-N4	5.53	124.07	120.20
25	DA	2252	G	C4-N9-C1'	-5.53	119.31	126.50
25	CA	2280	G	N1-C6-O6	-5.53	116.58	119.90
25	DA	2709	G	C4-N9-C1'	-5.53	119.31	126.50
1	AA	21	G	N3-C4-N9	5.53	129.32	126.00
25	CA	738	G	C8-N9-C4	-5.53	104.19	106.40
25	CA	774	G	C5-C6-N1	5.53	114.26	111.50
25	DA	723	C	C6-N1-C2	5.53	122.51	120.30
25	DA	1833	C	C5-C4-N4	-5.53	116.33	120.20
1	BA	380	G	C5-C6-O6	-5.53	125.28	128.60
25	CA	501	A	N1-C2-N3	5.53	132.06	129.30
25	CA	598	U	N3-C2-O2	5.53	126.07	122.20
25	CA	1049	C	N1-C2-O2	-5.53	115.58	118.90
25	DA	541	A	C2-N3-C4	5.53	113.36	110.60
25	DA	1414	C	C6-N1-C2	-5.53	118.09	120.30
25	CA	205	G	C5-C6-O6	5.52	131.91	128.60
25	DA	619	G	N1-C6-O6	-5.52	116.58	119.90
25	DA	1659	G	C4-N9-C1'	-5.52	119.32	126.50
25	CA	121	G	C4-C5-N7	5.52	113.01	110.80
25	DA	1567	G	N1-C6-O6	5.52	123.21	119.90
25	DA	2048	G	N3-C2-N2	5.52	123.77	119.90
25	DA	2828	G	C8-N9-C4	5.52	108.61	106.40
1	BA	984	C	C6-N1-C2	5.52	122.51	120.30
26	CB	5	U	N1-C2-O2	5.52	126.67	122.80
25	DA	1843	C	N3-C4-N4	5.52	121.86	118.00
1	BA	1480	A	C2-N3-C4	-5.52	107.84	110.60
25	CA	801	G	N3-C4-N9	-5.52	122.69	126.00
25	CA	922	C	N3-C4-N4	5.52	121.86	118.00
25	DA	2445	G	C2-N3-C4	5.52	114.66	111.90
1	AA	818	G	C4-N9-C1'	-5.52	119.33	126.50
25	CA	2331	G	N3-C4-C5	-5.52	125.84	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	979	A	C4-C5-N7	-5.52	107.94	110.70
25	DA	1325	U	C6-N1-C1'	5.52	128.92	121.20
26	CB	98	G	C5-C6-O6	-5.52	125.29	128.60
25	DA	967	U	N1-C2-O2	-5.52	118.94	122.80
25	CA	856	G	C8-N9-C4	5.51	108.61	106.40
25	CA	941	A	C4-C5-N7	5.51	113.46	110.70
25	CA	2089	C	C2-N3-C4	-5.51	117.14	119.90
25	CA	2533	U	N3-C4-O4	-5.51	115.54	119.40
25	DA	727	A	C8-N9-C4	5.51	108.01	105.80
25	DA	2283	C	N1-C2-O2	-5.51	115.59	118.90
25	CA	2514	U	C6-N1-C2	5.51	124.31	121.00
1	BA	117	G	C8-N9-C4	-5.51	104.19	106.40
25	CA	1410	G	N7-C8-N9	-5.51	110.34	113.10
25	CA	1985	C	C2-N1-C1'	-5.51	112.74	118.80
25	DA	1298	C	N1-C2-O2	-5.51	115.59	118.90
25	DA	1649	G	N1-C6-O6	-5.51	116.59	119.90
25	DA	1930	G	C4-N9-C1'	-5.51	119.33	126.50
25	DA	2364	C	C2-N3-C4	-5.51	117.14	119.90
1	AA	686	U	N1-C2-O2	-5.51	118.94	122.80
25	CA	221	A	C8-N9-C4	5.51	108.00	105.80
25	DA	1427	A	N1-C6-N6	-5.51	115.29	118.60
1	BA	963	G	C4-C5-N7	-5.51	108.60	110.80
25	DA	398	C	N1-C2-O2	-5.51	115.59	118.90
25	DA	985	C	C5-C6-N1	5.51	123.75	121.00
25	DA	1905	C	C5-C6-N1	-5.51	118.25	121.00
1	BA	911	U	C5-C4-O4	5.51	129.20	125.90
25	DA	1213	A	N1-C6-N6	5.51	121.90	118.60
25	DA	253	C	N3-C4-C5	-5.50	119.70	121.90
56	DB	74	U	C5-C6-N1	-5.50	119.95	122.70
25	CA	1151	A	C5-N7-C8	-5.50	101.15	103.90
1	AA	308	C	C6-N1-C2	5.50	122.50	120.30
1	BA	778	G	C5-C6-O6	5.50	131.90	128.60
1	BA	1515	G	C5-C6-N1	-5.50	108.75	111.50
25	CA	446	G	C6-C5-N7	-5.50	127.10	130.40
25	CA	2205	A	C5-C6-N1	-5.50	114.95	117.70
25	DA	1074	G	C8-N9-C1'	5.50	134.15	127.00
25	DA	2347	C	C6-N1-C1'	5.50	127.40	120.80
35	CK	118	LEU	N-CA-C	-5.50	96.15	111.00
25	DA	1152	C	C5-C4-N4	-5.50	116.35	120.20
25	CA	119	A	C5-C6-N1	5.50	120.45	117.70
25	CA	1125	G	C5-C6-N1	5.50	114.25	111.50
25	CA	2285	C	C6-N1-C2	5.50	122.50	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2642	G	N3-C4-N9	-5.50	122.70	126.00
25	CA	1223	G	N3-C4-C5	5.50	131.35	128.60
26	CB	43	C	N1-C2-N3	5.50	123.05	119.20
25	DA	648	G	C5-C6-O6	5.50	131.90	128.60
56	DB	98	G	C5-C6-O6	5.50	131.90	128.60
25	CA	906	U	C6-N1-C2	5.49	124.30	121.00
25	CA	2626	C	N3-C4-N4	5.49	121.84	118.00
25	DA	400	G	N3-C4-N9	5.49	129.30	126.00
25	DA	1996	C	C6-N1-C2	5.49	122.50	120.30
27	DC	62	ARG	NE-CZ-NH2	5.49	123.05	120.30
1	AA	1190	G	C5-C6-O6	-5.49	125.31	128.60
1	BA	779	C	N1-C2-O2	-5.49	115.61	118.90
25	CA	1563	U	C5-C4-O4	5.49	129.19	125.90
25	CA	2827	C	C6-N1-C2	5.49	122.50	120.30
25	DA	1970	A	C4-N9-C1'	5.49	136.18	126.30
25	DA	2070	A	C8-N9-C4	5.49	108.00	105.80
25	DA	2638	G	N1-C6-O6	-5.49	116.61	119.90
1	BA	1108	G	N1-C6-O6	-5.49	116.61	119.90
25	CA	229	C	N1-C2-O2	-5.49	115.61	118.90
25	CA	1369	G	N1-C6-O6	-5.49	116.61	119.90
25	CA	1372	U	C5-C4-O4	-5.49	122.61	125.90
25	CA	1405	U	N1-C2-N3	5.49	118.19	114.90
25	CA	2771	C	N3-C2-O2	5.49	125.74	121.90
25	CA	725	G	C8-N9-C1'	-5.49	119.87	127.00
25	CA	873	C	C6-N1-C2	5.49	122.49	120.30
25	CA	1122	G	N1-C6-O6	-5.49	116.61	119.90
25	DA	91	A	C5-C6-N6	-5.49	119.31	123.70
25	DA	1670	C	N3-C4-C5	-5.49	119.71	121.90
25	DA	2085	U	N3-C2-O2	-5.49	118.36	122.20
1	AA	858	G	N3-C2-N2	5.48	123.74	119.90
1	BA	326	G	N1-C6-O6	-5.48	116.61	119.90
25	CA	2523	G	C5-C6-O6	-5.48	125.31	128.60
25	CA	2682	A	C4-C5-C6	5.48	119.74	117.00
1	AA	19	A	N1-C6-N6	5.48	121.89	118.60
25	CA	606	U	N3-C4-O4	-5.48	115.56	119.40
25	CA	1525	A	N1-C6-N6	5.48	121.89	118.60
25	CA	2283	C	N1-C2-O2	-5.48	115.61	118.90
25	CA	2480	C	C6-N1-C2	-5.48	118.11	120.30
1	AA	283	U	C6-N1-C2	-5.48	117.71	121.00
25	CA	12	U	N3-C2-O2	-5.48	118.36	122.20
25	CA	919	U	C2-N1-C1'	5.48	124.28	117.70
25	CA	2897	U	C5-C6-N1	-5.48	119.96	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1288	G	N3-C4-N9	5.48	129.29	126.00
25	DA	1936	A	C8-N9-C4	5.48	107.99	105.80
1	BA	108	G	N3-C4-N9	-5.48	122.71	126.00
25	CA	2678	C	N3-C4-C5	5.48	124.09	121.90
25	CA	974	G	C3'-C2'-C1'	-5.48	97.12	101.50
25	CA	1024	G	N7-C8-N9	5.48	115.84	113.10
25	DA	770	G	N3-C4-N9	-5.48	122.71	126.00
25	DA	2508	G	N3-C2-N2	5.48	123.73	119.90
1	BA	1145	A	N1-C6-N6	5.48	121.89	118.60
1	AA	796	C	N3-C2-O2	-5.47	118.07	121.90
1	AA	1174	G	C6-C5-N7	5.47	133.69	130.40
22	BV	56	C	C6-N1-C2	-5.47	118.11	120.30
25	CA	563	A	C5-N7-C8	-5.47	101.16	103.90
25	CA	923	G	N3-C4-N9	-5.47	122.72	126.00
25	DA	2386	A	C8-N9-C4	5.47	107.99	105.80
25	DA	2702	G	N3-C4-C5	-5.47	125.86	128.60
1	BA	824	G	N3-C4-C5	5.47	131.34	128.60
25	CA	210	C	C2-N1-C1'	-5.47	112.78	118.80
25	CA	2859	G	N1-C2-N3	5.47	127.18	123.90
26	CB	11	C	C6-N1-C2	-5.47	118.11	120.30
25	DA	2705	A	C2-N3-C4	-5.47	107.86	110.60
25	DA	2755	C	N1-C2-O2	5.47	122.18	118.90
1	AA	111	G	C8-N9-C1'	5.47	134.11	127.00
25	CA	1038	G	N3-C4-C5	-5.47	125.86	128.60
25	DA	792	A	C8-N9-C4	-5.47	103.61	105.80
25	DA	1844	C	N1-C2-O2	-5.47	115.62	118.90
25	CA	489	G	N1-C2-N2	5.47	121.12	116.20
25	CA	1447	C	C4-C5-C6	5.47	120.14	117.40
25	CA	2265	U	N1-C2-N3	5.47	118.18	114.90
25	DA	1207	C	N1-C2-O2	-5.47	115.62	118.90
25	DA	2803	G	C4-N9-C1'	-5.47	119.39	126.50
1	AA	768	A	N1-C6-N6	5.47	121.88	118.60
25	CA	2289	G	C2-N3-C4	-5.47	109.17	111.90
25	CA	1427	A	C2-N3-C4	5.47	113.33	110.60
25	CA	2365	G	C2-N3-C4	-5.47	109.17	111.90
25	DA	75	G	N3-C4-N9	-5.47	122.72	126.00
25	DA	308	G	N3-C2-N2	5.47	123.73	119.90
25	DA	1785	A	C2-N3-C4	-5.47	107.87	110.60
25	DA	2045	C	C6-N1-C2	5.47	122.49	120.30
25	DA	2064	C	N3-C4-N4	5.47	121.83	118.00
25	CA	318	C	N1-C2-O2	-5.46	115.62	118.90
25	CA	781	A	C4-C5-C6	5.46	119.73	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2220	U	C2-N1-C1'	-5.46	111.14	117.70
25	CA	2330	G	N1-C2-N3	5.46	127.18	123.90
25	CA	2416	C	N1-C2-N3	5.46	123.03	119.20
25	DA	2539	C	C6-N1-C2	5.46	122.48	120.30
1	AA	234	C	C6-N1-C2	-5.46	118.12	120.30
25	CA	1243	C	N1-C2-O2	-5.46	115.62	118.90
25	CA	2054	A	N1-C6-N6	5.46	121.88	118.60
25	DA	598	U	N1-C2-O2	5.46	126.62	122.80
25	DA	740	C	N1-C2-O2	-5.46	115.62	118.90
25	DA	1265	A	C4-C5-N7	-5.46	107.97	110.70
25	DA	2688	G	N3-C4-C5	5.46	131.33	128.60
1	AA	1403	C	C2-N3-C4	-5.46	117.17	119.90
22	AV	70	G	C5-C6-O6	5.46	131.88	128.60
1	BA	109	A	C5-C6-N1	-5.46	114.97	117.70
25	CA	862	G	N1-C6-O6	-5.46	116.62	119.90
25	CA	2833	U	N3-C2-O2	-5.46	118.38	122.20
1	BA	653	U	N3-C2-O2	5.46	126.02	122.20
26	CB	16	G	N9-C4-C5	5.46	107.58	105.40
26	CB	72	G	C2-N3-C4	-5.46	109.17	111.90
25	DA	1797	G	C8-N9-C4	5.46	108.58	106.40
1	AA	245	U	C2-N3-C4	-5.46	123.73	127.00
1	AA	921	U	N3-C4-O4	5.46	123.22	119.40
1	BA	380	G	C8-N9-C4	5.46	108.58	106.40
1	BA	388	G	N1-C6-O6	-5.46	116.63	119.90
25	CA	92	U	N3-C2-O2	5.46	126.02	122.20
25	CA	856	G	N7-C8-N9	-5.46	110.37	113.10
25	DA	679	C	N3-C4-C5	-5.46	119.72	121.90
25	DA	1122	G	C4-N9-C1'	-5.46	119.41	126.50
25	DA	1614	A	C8-N9-C4	5.46	107.98	105.80
25	DA	2874	C	C6-N1-C1'	5.46	127.35	120.80
25	CA	960	A	C2-N3-C4	5.45	113.33	110.60
25	DA	781	A	C2-N3-C4	5.45	113.33	110.60
25	DA	1773	A	N9-C4-C5	5.45	107.98	105.80
1	AA	145	G	C8-N9-C4	-5.45	104.22	106.40
25	CA	1265	A	N3-C4-C5	-5.45	122.98	126.80
25	CA	1972	G	N3-C4-C5	-5.45	125.87	128.60
25	DA	2559	C	N3-C4-C5	5.45	124.08	121.90
25	CA	276	U	C2-N1-C1'	5.45	124.24	117.70
25	CA	2409	G	C8-N9-C4	5.45	108.58	106.40
25	DA	1369	G	C8-N9-C4	-5.45	104.22	106.40
25	CA	383	C	C2-N1-C1'	-5.45	112.81	118.80
25	CA	1958	C	N1-C2-N3	5.45	123.01	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2371	G	C8-N9-C4	-5.45	104.22	106.40
25	DA	528	A	C6-C5-N7	-5.45	128.49	132.30
1	AA	897	C	C6-N1-C2	5.45	122.48	120.30
1	BA	1494	G	N3-C2-N2	-5.45	116.09	119.90
1	BA	1522	U	N1-C2-O2	-5.45	118.99	122.80
25	CA	226	A	C6-C5-N7	-5.45	128.49	132.30
25	CA	240	C	N1-C2-O2	-5.45	115.63	118.90
25	CA	581	C	C6-N1-C2	-5.45	118.12	120.30
25	CA	758	C	N1-C2-O2	-5.45	115.63	118.90
25	DA	939	G	C6-C5-N7	5.45	133.67	130.40
25	DA	2030	A	C5-C6-N6	5.45	128.06	123.70
25	CA	2396	G	N9-C4-C5	5.45	107.58	105.40
25	DA	1002	G	C8-N9-C1'	5.45	134.08	127.00
1	BA	26	A	C2-N3-C4	5.44	113.32	110.60
25	DA	782	A	C2-N3-C4	-5.44	107.88	110.60
25	CA	38	A	C5-C6-N1	5.44	120.42	117.70
25	CA	475	C	N1-C2-O2	-5.44	115.64	118.90
25	CA	1384	A	N1-C6-N6	-5.44	115.34	118.60
25	DA	212	G	C5-C6-O6	-5.44	125.33	128.60
25	DA	562	U	C6-N1-C1'	5.44	128.82	121.20
25	DA	642	U	C5-C4-O4	5.44	129.16	125.90
25	DA	2002	G	N3-C4-N9	-5.44	122.74	126.00
25	CA	2562	U	N3-C4-O4	-5.44	115.59	119.40
25	CA	2682	A	C6-C5-N7	-5.44	128.49	132.30
1	AA	734	G	C4-N9-C1'	5.44	133.57	126.50
25	CA	454	A	C5-C6-N6	-5.44	119.35	123.70
25	CA	765	C	N3-C4-C5	-5.44	119.72	121.90
25	CA	2067	G	C8-N9-C4	5.44	108.58	106.40
25	DA	2715	C	C2-N3-C4	-5.44	117.18	119.90
1	BA	896	C	N1-C2-O2	-5.44	115.64	118.90
25	CA	1130	U	N3-C2-O2	-5.44	118.39	122.20
25	CA	2534	A	C5-C6-N6	-5.44	119.35	123.70
25	CA	2770	G	N9-C4-C5	-5.44	103.23	105.40
1	BA	447	G	N3-C4-N9	5.43	129.26	126.00
25	CA	817	C	N3-C2-O2	5.43	125.70	121.90
25	CA	1394	U	C5-C4-O4	5.43	129.16	125.90
25	CA	2679	A	N1-C6-N6	5.43	121.86	118.60
25	CA	2762	C	N1-C2-O2	-5.43	115.64	118.90
25	DA	911	A	N9-C4-C5	-5.43	103.63	105.80
25	CA	821	A	C4-C5-C6	-5.43	114.28	117.00
25	CA	2330	G	C2-N3-C4	-5.43	109.18	111.90
1	BA	642	A	N9-C4-C5	-5.43	103.63	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	780	G	N1-C6-O6	-5.43	116.64	119.90
25	DA	1142	A	C5-N7-C8	-5.43	101.19	103.90
1	BA	776	G	N1-C6-O6	-5.43	116.64	119.90
25	CA	746	U	C6-N1-C2	-5.43	117.74	121.00
25	CA	2803	G	C5-N7-C8	5.43	107.02	104.30
26	CB	61	G	C2-N3-C4	-5.43	109.19	111.90
25	DA	1792	G	N3-C4-C5	5.43	131.31	128.60
25	DA	1831	G	C5-N7-C8	-5.43	101.59	104.30
25	DA	2470	G	N1-C6-O6	-5.43	116.64	119.90
25	DA	2781	A	C8-N9-C4	5.43	107.97	105.80
25	CA	680	C	C2-N1-C1'	5.43	124.77	118.80
1	BA	400	C	N3-C2-O2	5.43	125.70	121.90
25	CA	2794	C	C6-N1-C2	-5.43	118.13	120.30
25	DA	461	C	C6-N1-C2	5.43	122.47	120.30
25	DA	780	G	N3-C4-C5	-5.43	125.89	128.60
25	DA	1037	G	C4-N9-C1'	-5.43	119.45	126.50
25	DA	2263	C	C6-N1-C2	-5.43	118.13	120.30
1	AA	897	C	C2-N3-C4	-5.42	117.19	119.90
22	AV	31	A	N7-C8-N9	-5.42	111.09	113.80
1	BA	902	G	N1-C2-N2	-5.42	111.32	116.20
25	CA	47	C	N1-C2-O2	-5.42	115.64	118.90
25	CA	784	G	C6-N1-C2	-5.42	121.84	125.10
25	DA	1786	A	C4-C5-C6	5.42	119.71	117.00
1	AA	721	G	N3-C4-N9	-5.42	122.75	126.00
25	DA	579	G	N3-C2-N2	-5.42	116.10	119.90
25	DA	2070	A	C4-N9-C1'	-5.42	116.54	126.30
25	DA	2582	G	C4-C5-N7	-5.42	108.63	110.80
25	CA	404	A	N7-C8-N9	5.42	116.51	113.80
25	CA	1835	G	N1-C2-N2	5.42	121.08	116.20
25	DA	1617	C	N1-C2-O2	-5.42	115.65	118.90
1	BA	766	A	C8-N9-C4	5.42	107.97	105.80
25	CA	2426	A	C4-C5-C6	5.42	119.71	117.00
25	DA	1828	G	C8-N9-C4	-5.42	104.23	106.40
49	CY	56	LEU	N-CA-C	-5.42	96.38	111.00
1	BA	1199	U	C2-N1-C1'	-5.42	111.20	117.70
25	CA	921	C	N3-C4-N4	5.42	121.79	118.00
26	CB	9	G	C5-C6-N1	5.42	114.21	111.50
25	DA	1441	G	N9-C4-C5	-5.42	103.23	105.40
25	DA	2503	A	C2-N3-C4	5.42	113.31	110.60
1	BA	781	A	C8-N9-C4	5.41	107.97	105.80
25	CA	2158	A	C5-C6-N6	-5.41	119.37	123.70
25	CA	2609	U	N1-C2-N3	-5.41	111.65	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	CB	88	C	N3-C4-C5	-5.41	119.73	121.90
25	DA	1648	U	C5-C4-O4	-5.41	122.65	125.90
25	DA	2279	G	C8-N9-C4	5.41	108.56	106.40
1	BA	108	G	N1-C6-O6	-5.41	116.65	119.90
25	CA	1016	G	N1-C2-N2	5.41	121.07	116.20
25	CA	2333	A	C6-N1-C2	-5.41	115.35	118.60
25	DA	1846	G	N1-C6-O6	5.41	123.15	119.90
25	DA	2075	U	N3-C4-O4	-5.41	115.61	119.40
25	DA	2470	G	N9-C4-C5	5.41	107.56	105.40
1	BA	406	G	N3-C4-C5	-5.41	125.89	128.60
25	CA	1038	G	N1-C2-N2	-5.41	111.33	116.20
25	CA	1966	A	C5-C6-N6	-5.41	119.37	123.70
25	CA	2523	G	C8-N9-C1'	-5.41	119.97	127.00
25	DA	948	C	N1-C2-N3	5.41	122.99	119.20
1	BA	28	A	N1-C6-N6	5.41	121.84	118.60
1	BA	714	G	C4-C5-N7	5.41	112.96	110.80
25	CA	547	A	C8-N9-C4	-5.41	103.64	105.80
25	DA	1711	A	C2-N3-C4	5.41	113.30	110.60
25	DA	2044	C	C6-N1-C2	5.41	122.46	120.30
25	CA	733	G	N3-C4-N9	5.41	129.24	126.00
25	CA	2435	A	C8-N9-C4	5.41	107.96	105.80
25	CA	2444	G	N3-C2-N2	-5.41	116.11	119.90
25	DA	555	G	N1-C6-O6	5.41	123.14	119.90
25	DA	2502	G	N9-C4-C5	5.41	107.56	105.40
1	AA	1187	G	C4-N9-C1'	-5.41	119.47	126.50
1	AA	1360	A	C8-N9-C4	5.41	107.96	105.80
1	BA	822	U	C6-N1-C2	5.41	124.24	121.00
25	CA	32	C	C6-N1-C2	5.41	122.46	120.30
25	CA	332	A	C4-C5-N7	-5.41	108.00	110.70
25	CA	1841	U	N1-C2-O2	-5.41	119.02	122.80
25	CA	2250	G	C6-N1-C2	5.41	128.34	125.10
25	CA	2574	G	N1-C6-O6	5.40	123.14	119.90
25	DA	2053	G	C2-N3-C4	-5.40	109.20	111.90
25	DA	2852	G	C8-N9-C4	5.40	108.56	106.40
3	BC	174	LEU	CA-CB-CG	5.40	127.72	115.30
25	CA	1897	G	N3-C4-N9	5.40	129.24	126.00
25	CA	2535	G	N9-C4-C5	-5.40	103.24	105.40
25	DA	1939	U	N3-C4-C5	5.40	117.84	114.60
25	DA	2208	C	C6-N1-C2	-5.40	118.14	120.30
25	DA	2885	G	C8-N9-C4	-5.40	104.24	106.40
25	CA	1189	A	C5-C6-N1	5.40	120.40	117.70
25	DA	1653	G	C4-C5-C6	5.40	122.04	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	633	G	N9-C4-C5	5.40	107.56	105.40
1	BA	354	G	C4-N9-C1'	5.40	133.52	126.50
25	CA	239	C	N3-C2-O2	5.40	125.68	121.90
25	CA	516	C	C2-N1-C1'	-5.40	112.86	118.80
25	DA	209	C	N3-C4-N4	-5.40	114.22	118.00
25	DA	771	G	C5-C6-O6	-5.40	125.36	128.60
25	DA	2017	U	C5-C4-O4	5.40	129.14	125.90
1	AA	586	C	C6-N1-C2	5.40	122.46	120.30
26	CB	96	G	C4-C5-N7	-5.40	108.64	110.80
25	DA	2055	C	C2-N1-C1'	-5.40	112.86	118.80
25	CA	35	G	C2-N3-C4	-5.39	109.20	111.90
25	CA	2790	U	N1-C2-O2	5.39	126.58	122.80
41	CQ	10	ARG	NE-CZ-NH1	-5.39	117.60	120.30
25	CA	235	U	N3-C2-O2	-5.39	118.42	122.20
25	CA	982	C	N3-C4-N4	-5.39	114.23	118.00
25	CA	1035	U	C6-N1-C2	5.39	124.23	121.00
1	BA	1190	G	C8-N9-C4	5.39	108.56	106.40
25	DA	6	A	C2-N3-C4	-5.39	107.91	110.60
25	CA	984	A	C8-N9-C4	5.39	107.96	105.80
25	CA	1128	G	C2-N3-C4	-5.39	109.21	111.90
25	CA	1750	G	C8-N9-C4	-5.39	104.24	106.40
25	CA	1767	G	C2-N3-C4	-5.39	109.20	111.90
25	CA	2523	G	C2-N3-C4	-5.39	109.20	111.90
25	CA	990	A	C5-C6-N6	5.39	128.01	123.70
25	CA	2056	G	C2-N3-C4	5.39	114.59	111.90
1	AA	1483	A	N1-C6-N6	5.39	121.83	118.60
1	BA	332	G	C5-C6-O6	-5.39	125.37	128.60
25	CA	1743	G	N9-C4-C5	-5.39	103.25	105.40
25	CA	2141	G	N3-C4-N9	5.39	129.23	126.00
25	DA	395	U	C2-N1-C1'	-5.39	111.24	117.70
25	DA	1130	U	N1-C2-O2	5.39	126.57	122.80
25	DA	1676	A	N7-C8-N9	-5.39	111.11	113.80
25	DA	2702	G	C4-N9-C1'	5.39	133.50	126.50
1	BA	241	G	C5-C6-O6	5.38	131.83	128.60
1	BA	611	C	C2-N3-C4	-5.38	117.21	119.90
25	CA	821	A	C2-N3-C4	-5.38	107.91	110.60
25	CA	1407	G	N1-C6-O6	5.38	123.13	119.90
25	DA	906	U	C2-N1-C1'	-5.38	111.24	117.70
25	DA	2783	U	C2-N1-C1'	-5.38	111.24	117.70
1	BA	220	G	N3-C4-N9	-5.38	122.77	126.00
25	CA	1475	G	C8-N9-C1'	5.38	134.00	127.00
25	DA	2677	G	C8-N9-C1'	5.38	134.00	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	796	C	N1-C2-O2	-5.38	115.67	118.90
25	CA	1169	A	C8-N9-C4	5.38	107.95	105.80
1	AA	1499	A	N9-C4-C5	-5.38	103.65	105.80
25	CA	1783	A	N1-C6-N6	5.38	121.83	118.60
25	DA	1952	A	C2-N3-C4	5.38	113.29	110.60
25	DA	2371	G	N3-C2-N2	-5.38	116.13	119.90
1	AA	206	C	C6-N1-C2	-5.38	118.15	120.30
1	BA	563	A	C4-C5-N7	5.38	113.39	110.70
25	CA	218	A	N1-C6-N6	5.38	121.83	118.60
25	CA	249	C	N3-C4-N4	5.38	121.77	118.00
25	CA	2093	G	C5-C6-N1	-5.38	108.81	111.50
25	DA	2070	A	N1-C2-N3	5.38	131.99	129.30
25	DA	2652	C	C2-N1-C1'	-5.38	112.88	118.80
25	DA	400	G	N3-C4-C5	-5.38	125.91	128.60
25	DA	681	G	N1-C6-O6	5.38	123.13	119.90
25	DA	912	C	C6-N1-C2	-5.38	118.15	120.30
25	DA	1473	G	C8-N9-C4	5.38	108.55	106.40
25	DA	2518	A	N7-C8-N9	5.38	116.49	113.80
25	DA	2618	G	C8-N9-C4	5.38	108.55	106.40
1	AA	656	G	N3-C4-C5	-5.38	125.91	128.60
1	BA	35	G	N3-C4-C5	-5.38	125.91	128.60
1	BA	457	G	N3-C4-N9	5.38	129.22	126.00
25	CA	22	C	C2-N3-C4	-5.38	117.21	119.90
25	CA	1020	A	N3-C4-C5	5.38	130.56	126.80
25	CA	2679	A	C4-C5-N7	5.38	113.39	110.70
25	CA	2862	G	N3-C2-N2	-5.38	116.14	119.90
1	BA	358	U	N3-C2-O2	5.37	125.96	122.20
25	CA	620	G	N3-C2-N2	-5.37	116.14	119.90
25	CA	1997	C	C2-N1-C1'	-5.37	112.89	118.80
25	DA	246	C	N3-C2-O2	5.37	125.66	121.90
25	DA	297	G	C8-N9-C4	5.37	108.55	106.40
25	DA	1827	U	N1-C2-O2	-5.37	119.04	122.80
1	AA	29	U	C5-C4-O4	5.37	129.12	125.90
25	CA	169	G	N3-C4-N9	-5.37	122.78	126.00
25	CA	1652	A	N1-C6-N6	-5.37	115.38	118.60
26	CB	13	G	N9-C4-C5	-5.37	103.25	105.40
25	DA	1290	C	N1-C2-O2	-5.37	115.68	118.90
25	CA	946	C	N3-C4-C5	5.37	124.05	121.90
25	DA	1780	A	C5-C6-N6	-5.37	119.40	123.70
1	AA	212	G	N3-C4-N9	5.37	129.22	126.00
1	AA	293	G	C8-N9-C4	5.37	108.55	106.40
25	CA	760	G	N3-C2-N2	-5.37	116.14	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1137	G	C5-C6-O6	-5.37	125.38	128.60
25	DA	528	A	N3-C4-N9	-5.37	123.11	127.40
1	AA	859	G	N1-C2-N2	-5.37	111.37	116.20
1	AA	980	C	C6-N1-C2	5.37	122.45	120.30
25	CA	915	C	N1-C2-O2	-5.37	115.68	118.90
25	CA	1155	A	C5-N7-C8	5.37	106.58	103.90
25	CA	1157	G	C4-N9-C1'	5.37	133.48	126.50
25	CA	2293	G	C5-C6-N1	5.37	114.18	111.50
25	DA	77	G	N3-C4-N9	-5.37	122.78	126.00
25	DA	672	C	N3-C2-O2	5.37	125.66	121.90
25	DA	871	U	C6-N1-C1'	5.37	128.71	121.20
25	DA	2649	C	N1-C2-O2	-5.37	115.68	118.90
25	CA	1245	G	C5-C6-O6	5.36	131.82	128.60
25	CA	2728	U	N3-C4-O4	-5.36	115.64	119.40
25	DA	129	C	N3-C4-C5	5.36	124.05	121.90
25	DA	413	C	C6-N1-C2	5.36	122.45	120.30
25	DA	453	A	N9-C4-C5	-5.36	103.66	105.80
22	AV	17	C	C3'-C2'-C1'	-5.36	97.21	101.50
25	CA	1378	A	N3-C4-N9	-5.36	123.11	127.40
25	CA	2081	U	N1-C2-N3	5.36	118.12	114.90
25	DA	61	C	N3-C4-N4	5.36	121.75	118.00
1	AA	292	G	N1-C6-O6	-5.36	116.68	119.90
1	AA	1510	C	C6-N1-C2	5.36	122.44	120.30
1	BA	278	G	N3-C4-C5	5.36	131.28	128.60
25	CA	249	C	C5-C4-N4	-5.36	116.45	120.20
26	CB	51	G	C5-N7-C8	-5.36	101.62	104.30
22	AV	15	G	N3-C4-C5	5.36	131.28	128.60
25	CA	2416	C	N3-C2-O2	-5.36	118.15	121.90
25	CA	1939	U	N3-C4-C5	5.36	117.81	114.60
25	CA	2364	C	C2-N1-C1'	-5.36	112.91	118.80
25	CA	2488	G	C5-C6-O6	-5.36	125.39	128.60
25	CA	2499	C	N3-C2-O2	5.36	125.65	121.90
25	DA	229	C	C6-N1-C2	5.36	122.44	120.30
25	DA	2803	G	C8-N9-C4	5.36	108.54	106.40
25	DA	2834	G	N3-C4-N9	5.36	129.22	126.00
1	BA	566	G	N3-C4-N9	5.36	129.21	126.00
25	CA	2085	U	C6-N1-C2	5.36	124.21	121.00
25	CA	2688	G	C8-N9-C1'	5.36	133.96	127.00
25	DA	243	U	C5-C4-O4	5.36	129.11	125.90
25	DA	2355	G	C2-N3-C4	-5.36	109.22	111.90
25	CA	2298	A	N1-C6-N6	-5.35	115.39	118.60
25	DA	950	G	C8-N9-C4	5.35	108.54	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	795	C	N1-C2-O2	-5.35	115.69	118.90
1	BA	896	C	N1-C2-N3	5.35	122.95	119.20
25	CA	1646	C	C6-N1-C2	5.35	122.44	120.30
25	CA	1981	A	C5-C6-N6	5.35	127.98	123.70
25	DA	450	G	N1-C6-O6	-5.35	116.69	119.90
25	DA	527	C	C5-C4-N4	5.35	123.95	120.20
25	DA	1842	G	N3-C4-N9	-5.35	122.79	126.00
25	DA	2691	C	N3-C4-N4	5.35	121.75	118.00
25	CA	337	C	N3-C4-C5	5.35	124.04	121.90
25	CA	997	G	C4-C5-N7	-5.35	108.66	110.80
25	CA	1395	A	N3-C4-N9	-5.35	123.12	127.40
25	DA	1617	C	C2-N3-C4	-5.35	117.22	119.90
25	DA	2432	A	C6-C5-N7	-5.35	128.55	132.30
25	CA	85	G	C5-C6-N1	5.35	114.17	111.50
25	CA	576	U	N1-C2-O2	5.35	126.54	122.80
25	CA	1638	C	N1-C2-N3	5.35	122.94	119.20
25	CA	1970	A	C5-N7-C8	-5.35	101.22	103.90
26	CB	15	A	C5-C6-N1	-5.35	115.03	117.70
25	DA	1686	C	N1-C2-O2	-5.35	115.69	118.90
25	DA	2267	A	C6-C5-N7	-5.35	128.56	132.30
25	DA	2434	A	C6-C5-N7	-5.35	128.56	132.30
22	BV	62	C	N1-C2-O2	-5.35	115.69	118.90
26	CB	81	G	C5-C6-N1	5.35	114.17	111.50
25	DA	1300	G	N3-C4-N9	5.35	129.21	126.00
25	CA	873	C	N3-C2-O2	5.35	125.64	121.90
25	CA	2503	A	C5-C6-N6	-5.35	119.42	123.70
25	DA	721	A	C8-N9-C4	5.35	107.94	105.80
25	DA	1340	U	C6-N1-C1'	-5.35	113.72	121.20
1	BA	365	U	N3-C4-O4	-5.34	115.66	119.40
26	CB	80	U	N3-C2-O2	5.34	125.94	122.20
25	DA	855	G	C8-N9-C4	-5.34	104.26	106.40
25	DA	1647	U	N3-C4-C5	-5.34	111.39	114.60
25	CA	290	U	C5-C4-O4	5.34	129.11	125.90
25	CA	636	G	C5-C6-O6	5.34	131.81	128.60
25	CA	2059	A	C2-N3-C4	-5.34	107.93	110.60
25	DA	85	G	N3-C4-C5	5.34	131.27	128.60
25	DA	1119	U	C5-C6-N1	-5.34	120.03	122.70
1	AA	396	C	C6-N1-C2	5.34	122.44	120.30
25	DA	981	A	C5-N7-C8	-5.34	101.23	103.90
25	CA	301	G	C4-N9-C1'	-5.34	119.56	126.50
25	CA	2590	A	C8-N9-C4	5.34	107.94	105.80
25	CA	187	G	N3-C4-N9	5.34	129.20	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	647	G	N7-C8-N9	-5.34	110.43	113.10
25	CA	2867	G	N3-C4-N9	5.34	129.20	126.00
1	AA	502	A	N1-C6-N6	-5.34	115.40	118.60
1	AA	754	C	N3-C4-C5	-5.34	119.77	121.90
25	CA	310	A	C2-N3-C4	-5.34	107.93	110.60
25	CA	2071	A	N1-C2-N3	5.34	131.97	129.30
25	CA	2726	A	N9-C4-C5	5.34	107.94	105.80
25	DA	29	U	N3-C4-O4	-5.34	115.67	119.40
25	DA	2282	G	C5-C6-N1	5.34	114.17	111.50
25	DA	2425	A	P-O3'-C3'	5.34	126.10	119.70
25	DA	2564	A	C6-C5-N7	-5.34	128.56	132.30
4	AD	49	ASP	CB-CG-OD2	5.33	123.10	118.30
25	CA	1522	A	C4-C5-C6	5.33	119.67	117.00
25	DA	2823	A	N9-C4-C5	-5.33	103.67	105.80
28	DD	141	ARG	NE-CZ-NH1	5.33	122.97	120.30
1	AA	764	C	C6-N1-C2	-5.33	118.17	120.30
1	BA	823	C	C2-N1-C1'	-5.33	112.93	118.80
25	CA	533	G	C4-N9-C1'	5.33	133.43	126.50
25	DA	4	U	C5-C6-N1	-5.33	120.03	122.70
25	DA	1634	A	C8-N9-C4	5.33	107.93	105.80
25	CA	598	U	C5-C6-N1	-5.33	120.03	122.70
25	CA	1738	G	N3-C4-C5	-5.33	125.93	128.60
25	CA	2352	A	C5-N7-C8	5.33	106.57	103.90
26	CB	117	G	N3-C4-N9	-5.33	122.80	126.00
25	DA	785	G	C5-C6-N1	-5.33	108.83	111.50
25	DA	2029	G	C2-N3-C4	-5.33	109.23	111.90
25	DA	961	C	N3-C2-O2	5.33	125.63	121.90
1	AA	1309	G	C8-N9-C4	5.33	108.53	106.40
25	CA	223	A	N3-C4-N9	-5.33	123.14	127.40
25	DA	1157	G	C4-C5-N7	5.33	112.93	110.80
25	DA	1764	C	N1-C2-N3	5.33	122.93	119.20
1	BA	142	G	C4-N9-C1'	5.33	133.43	126.50
25	CA	488	G	N3-C4-N9	5.33	129.20	126.00
25	DA	1187	G	C8-N9-C1'	-5.33	120.08	127.00
1	BA	37	U	C6-N1-C2	5.33	124.20	121.00
1	BA	1433	A	C6-C5-N7	-5.33	128.57	132.30
25	CA	1892	C	C6-N1-C2	5.33	122.43	120.30
25	DA	211	C	C2-N1-C1'	-5.33	112.94	118.80
25	DA	1833	C	N3-C2-O2	5.33	125.63	121.90
1	BA	813	U	C5-C4-O4	-5.32	122.71	125.90
25	CA	1556	C	N3-C2-O2	5.32	125.63	121.90
25	CA	2177	C	C2-N1-C1'	5.32	124.66	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	2388	A	N7-C8-N9	-5.32	111.14	113.80
25	DA	395	U	C5-C6-N1	-5.32	120.04	122.70
25	DA	2019	A	C5-C6-N6	-5.32	119.44	123.70
1	AA	798	U	N1-C2-O2	-5.32	119.08	122.80
1	AA	1457	G	N7-C8-N9	-5.32	110.44	113.10
25	CA	458	G	C6-C5-N7	5.32	133.59	130.40
25	CA	2763	G	N1-C6-O6	5.32	123.09	119.90
25	DA	122	G	N9-C4-C5	-5.32	103.27	105.40
25	DA	2019	A	N1-C6-N6	5.32	121.79	118.60
25	CA	991	C	N1-C2-O2	-5.32	115.71	118.90
25	DA	527	C	N3-C2-O2	-5.32	118.17	121.90
25	DA	2783	U	C5-C4-O4	5.32	129.09	125.90
1	AA	311	C	C6-N1-C2	-5.32	118.17	120.30
1	BA	686	U	C2-N1-C1'	-5.32	111.32	117.70
25	CA	90	U	N1-C2-O2	5.32	126.52	122.80
25	CA	2427	C	N1-C2-O2	-5.32	115.71	118.90
25	DA	583	G	C2-N3-C4	-5.32	109.24	111.90
25	DA	2842	G	C8-N9-C4	5.32	108.53	106.40
1	AA	938	A	C5-C6-N6	5.32	127.95	123.70
25	CA	431	U	N1-C2-N3	-5.32	111.71	114.90
25	CA	1064	C	C5-C6-N1	5.32	123.66	121.00
25	CA	2000	C	C2-N3-C4	-5.32	117.24	119.90
25	CA	2458	G	N9-C4-C5	5.32	107.53	105.40
25	DA	838	C	C6-N1-C2	5.32	122.43	120.30
25	DA	2705	A	C4-C5-N7	5.32	113.36	110.70
1	AA	368	U	N3-C2-O2	-5.32	118.48	122.20
1	BA	563	A	C6-C5-N7	-5.32	128.58	132.30
25	CA	1110	G	C8-N9-C4	5.32	108.53	106.40
25	CA	2076	U	C5-C4-O4	5.32	129.09	125.90
1	AA	245	U	N3-C4-C5	5.31	117.79	114.60
25	CA	517	C	N3-C2-O2	5.31	125.62	121.90
25	CA	2717	C	C6-N1-C2	-5.31	118.17	120.30
25	DA	1771	C	C2-N3-C4	-5.31	117.24	119.90
1	BA	987	G	C8-N9-C4	-5.31	104.28	106.40
25	DA	634	C	N3-C4-N4	5.31	121.72	118.00
1	AA	869	G	C4-C5-N7	5.31	112.92	110.80
25	CA	2055	C	N3-C4-C5	5.31	124.02	121.90
25	CA	2612	C	N1-C2-O2	-5.31	115.72	118.90
25	CA	2646	C	C5-C4-N4	-5.31	116.48	120.20
25	DA	1684	G	C8-N9-C4	5.31	108.52	106.40
1	AA	1194	U	C5-C6-N1	-5.31	120.05	122.70
25	CA	195	A	C5-C6-N1	5.31	120.35	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	543	G	C8-N9-C1'	-5.31	120.10	127.00
25	CA	2277	G	C5-C6-N1	5.31	114.15	111.50
25	DA	122	G	C8-N9-C4	5.31	108.52	106.40
25	CA	1661	G	N3-C4-N9	5.31	129.18	126.00
25	CA	2030	A	C5-C6-N1	-5.31	115.05	117.70
25	DA	466	A	N1-C6-N6	-5.31	115.42	118.60
25	DA	634	C	C5-C4-N4	-5.31	116.48	120.20
1	BA	115	G	C5-C6-N1	5.30	114.15	111.50
1	BA	1441	A	C8-N9-C4	-5.30	103.68	105.80
22	BV	74	C	C6-N1-C1'	-5.30	114.44	120.80
25	CA	942	G	C6-C5-N7	5.30	133.58	130.40
25	DA	538	A	N1-C2-N3	5.30	131.95	129.30
25	DA	1951	U	N3-C4-C5	-5.30	111.42	114.60
25	DA	2069	G	N3-C4-N9	-5.30	122.82	126.00
56	DB	74	U	C5-C4-O4	5.30	129.08	125.90
56	DB	113	C	C6-N1-C2	-5.30	118.18	120.30
25	CA	1519	G	C5-N7-C8	5.30	106.95	104.30
25	CA	2158	A	N1-C6-N6	5.30	121.78	118.60
25	DA	1972	G	N3-C4-C5	-5.30	125.95	128.60
1	AA	332	G	N7-C8-N9	-5.30	110.45	113.10
25	CA	1228	G	C6-C5-N7	5.30	133.58	130.40
25	CA	2452	C	N1-C2-O2	-5.30	115.72	118.90
25	CA	2539	C	N1-C2-O2	-5.30	115.72	118.90
25	DA	746	U	N1-C2-O2	5.30	126.51	122.80
25	DA	2549	G	C4-N9-C1'	5.30	133.39	126.50
25	DA	2568	U	C6-N1-C2	5.30	124.18	121.00
25	DA	1651	G	C8-N9-C4	-5.30	104.28	106.40
25	DA	2364	C	N1-C2-O2	-5.30	115.72	118.90
1	AA	1524	C	C6-N1-C1'	5.30	127.16	120.80
25	DA	582	A	C5-C6-N6	-5.30	119.46	123.70
25	DA	1006	C	C5-C4-N4	-5.30	116.49	120.20
56	DB	76	G	N9-C4-C5	5.30	107.52	105.40
25	CA	221	A	C4-N9-C1'	-5.30	116.77	126.30
25	CA	542	C	N1-C2-O2	-5.30	115.72	118.90
25	CA	618	G	C6-C5-N7	5.30	133.58	130.40
25	CA	809	G	C5-C6-O6	5.30	131.78	128.60
25	CA	1190	G	C4-C5-N7	-5.30	108.68	110.80
25	CA	1595	C	C5-C6-N1	-5.30	118.35	121.00
25	CA	2031	A	N7-C8-N9	5.30	116.45	113.80
25	CA	2435	A	C6-N1-C2	-5.30	115.42	118.60
25	DA	1897	G	N9-C4-C5	-5.30	103.28	105.40
25	DA	2252	G	C8-N9-C4	5.30	108.52	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2757	A	C2-N3-C4	5.30	113.25	110.60
25	DA	2795	C	C6-N1-C2	-5.30	118.18	120.30
25	CA	2642	G	N3-C2-N2	5.29	123.61	119.90
1	AA	818	G	C8-N9-C1'	5.29	133.88	127.00
1	AA	1475	G	C6-C5-N7	-5.29	127.22	130.40
1	BA	987	G	C4-N9-C1'	5.29	133.38	126.50
25	DA	815	C	N3-C4-C5	-5.29	119.78	121.90
25	DA	964	C	C2-N1-C1'	-5.29	112.98	118.80
25	DA	2267	A	C4-C5-C6	5.29	119.65	117.00
25	DA	2436	G	C2-N3-C4	-5.29	109.25	111.90
25	DA	2675	A	C6-N1-C2	-5.29	115.42	118.60
1	AA	337	G	C4-N9-C1'	-5.29	119.62	126.50
1	AA	914	A	C6-N1-C2	-5.29	115.42	118.60
25	CA	317	G	N1-C6-O6	5.29	123.08	119.90
25	CA	971	G	N3-C4-N9	5.29	129.18	126.00
25	CA	2726	A	C5-C6-N1	5.29	120.35	117.70
25	CA	2802	G	N3-C4-N9	-5.29	122.83	126.00
25	CA	2877	G	C8-N9-C4	5.29	108.52	106.40
25	DA	794	A	C8-N9-C4	5.29	107.92	105.80
1	AA	1051	C	N1-C2-O2	-5.29	115.73	118.90
25	CA	215	G	C8-N9-C4	5.29	108.52	106.40
25	CA	1450	G	N3-C4-C5	5.29	131.25	128.60
1	AA	796	C	C2-N1-C1'	5.29	124.62	118.80
25	DA	480	A	C4-N9-C1'	-5.29	116.78	126.30
25	DA	1633	G	N9-C4-C5	-5.29	103.28	105.40
25	DA	2049	G	C5-C6-N1	5.29	114.14	111.50
25	CA	486	C	N3-C4-N4	5.29	121.70	118.00
25	CA	1512	C	N3-C2-O2	5.29	125.60	121.90
25	DA	461	C	C5-C6-N1	-5.29	118.36	121.00
25	DA	701	G	C8-N9-C4	5.29	108.51	106.40
25	DA	1006	C	C6-N1-C2	5.29	122.41	120.30
25	DA	1499	C	C2-N1-C1'	-5.29	112.99	118.80
25	DA	1547	C	C6-N1-C2	5.29	122.41	120.30
25	DA	2739	U	N3-C2-O2	5.29	125.90	122.20
22	AV	47	U	C2-N1-C1'	5.28	124.04	117.70
25	CA	1224	U	C5-C6-N1	-5.28	120.06	122.70
25	CA	2046	G	C4-C5-N7	5.28	112.91	110.80
25	CA	2570	G	N3-C4-C5	5.28	131.24	128.60
25	CA	2590	A	C4-C5-C6	5.28	119.64	117.00
25	CA	2763	G	C4-C5-C6	5.28	121.97	118.80
25	DA	561	G	N9-C4-C5	-5.28	103.29	105.40
26	CB	16	G	N3-C2-N2	-5.28	116.20	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1119	U	C2-N1-C1'	-5.28	111.36	117.70
54	D3	57	VAL	CB-CA-C	-5.28	101.36	111.40
25	CA	835	C	N3-C4-C5	-5.28	119.79	121.90
25	CA	859	G	C5-C6-O6	5.28	131.77	128.60
25	CA	2275	C	N3-C2-O2	-5.28	118.20	121.90
25	DA	2502	G	C8-N9-C4	-5.28	104.29	106.40
25	CA	528	A	C4-N9-C1'	5.28	135.80	126.30
1	BA	1504	G	C4-C5-C6	-5.28	115.63	118.80
25	CA	69	C	N1-C2-O2	-5.28	115.73	118.90
25	CA	1452	G	N9-C4-C5	-5.28	103.29	105.40
25	DA	698	C	C6-N1-C2	5.28	122.41	120.30
25	DA	2559	C	C2-N1-C1'	-5.28	113.00	118.80
1	AA	262	A	C8-N9-C4	5.28	107.91	105.80
1	AA	1167	A	N1-C6-N6	-5.28	115.44	118.60
25	CA	275	C	C6-N1-C2	-5.28	118.19	120.30
26	CB	19	C	C2-N1-C1'	-5.28	113.00	118.80
31	CG	97	VAL	CB-CA-C	-5.28	101.38	111.40
25	DA	1659	G	C8-N9-C1'	5.28	133.86	127.00
25	DA	2453	A	N1-C6-N6	5.28	121.77	118.60
1	BA	249	U	N3-C2-O2	-5.27	118.51	122.20
25	CA	813	U	C6-N1-C2	-5.27	117.84	121.00
25	DA	1234	U	C2-N1-C1'	-5.27	111.37	117.70
1	BA	281	G	N1-C6-O6	-5.27	116.74	119.90
1	BA	310	G	N1-C6-O6	5.27	123.06	119.90
25	CA	121	G	C5-N7-C8	-5.27	101.66	104.30
25	CA	324	A	C2-N3-C4	-5.27	107.96	110.60
25	CA	1660	G	C6-C5-N7	5.27	133.56	130.40
25	CA	1954	G	C5-C6-O6	-5.27	125.44	128.60
25	CA	2436	G	C2-N3-C4	-5.27	109.26	111.90
25	CA	2464	G	C8-N9-C1'	5.27	133.85	127.00
25	DA	2834	G	N3-C2-N2	5.27	123.59	119.90
1	AA	722	G	N1-C6-O6	5.27	123.06	119.90
1	BA	310	G	C5-C6-O6	-5.27	125.44	128.60
25	CA	1543	G	N3-C2-N2	-5.27	116.21	119.90
25	DA	1028	A	C2-N3-C4	-5.27	107.97	110.60
25	DA	2427	C	C6-N1-C2	-5.27	118.19	120.30
1	AA	265	G	C4-N9-C1'	-5.27	119.65	126.50
1	BA	404	G	C5-C6-N1	5.27	114.13	111.50
25	DA	192	C	N3-C4-C5	-5.27	119.79	121.90
25	CA	1954	G	N3-C2-N2	-5.27	116.21	119.90
26	CB	99	A	C8-N9-C4	-5.27	103.69	105.80
39	CO	9	ARG	NE-CZ-NH2	-5.27	117.67	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	948	C	C6-N1-C2	-5.27	118.19	120.30
25	DA	1569	A	N7-C8-N9	-5.27	111.17	113.80
56	DB	78	A	N7-C8-N9	-5.27	111.17	113.80
25	CA	2337	G	N1-C6-O6	5.27	123.06	119.90
1	BA	1186	G	C8-N9-C4	5.26	108.51	106.40
25	CA	2060	A	C2-N3-C4	-5.26	107.97	110.60
25	CA	2089	C	N1-C2-O2	-5.26	115.74	118.90
25	CA	2510	C	C2-N1-C1'	-5.26	113.01	118.80
25	CA	2720	U	N1-C2-N3	5.26	118.06	114.90
25	DA	2782	G	N9-C4-C5	-5.26	103.30	105.40
1	AA	108	G	N9-C4-C5	5.26	107.50	105.40
25	CA	825	A	N1-C6-N6	-5.26	115.44	118.60
25	CA	1769	U	C5-C6-N1	-5.26	120.07	122.70
25	DA	203	A	C2-N3-C4	-5.26	107.97	110.60
25	DA	313	G	C8-N9-C4	5.26	108.50	106.40
22	BV	30	G	N3-C4-C5	-5.26	125.97	128.60
25	CA	692	C	N1-C2-O2	-5.26	115.74	118.90
25	CA	945	A	C6-N1-C2	-5.26	115.44	118.60
25	CA	2235	G	C6-N1-C2	-5.26	121.94	125.10
25	CA	2488	G	N1-C6-O6	5.26	123.06	119.90
25	CA	2718	G	C4-C5-N7	5.26	112.90	110.80
25	DA	2286	G	C2-N3-C4	-5.26	109.27	111.90
25	DA	2508	G	C8-N9-C4	5.26	108.50	106.40
25	CA	1330	C	N3-C4-C5	5.26	124.00	121.90
25	CA	1492	G	N1-C2-N3	5.26	127.06	123.90
25	CA	1501	G	N1-C6-O6	5.26	123.06	119.90
25	CA	2157	G	N3-C4-C5	5.26	131.23	128.60
25	CA	2260	C	C2-N3-C4	-5.26	117.27	119.90
1	BA	142	G	N3-C4-N9	5.26	129.16	126.00
25	CA	2321	U	N3-C4-O4	-5.26	115.72	119.40
25	CA	83	A	C5-N7-C8	5.26	106.53	103.90
25	CA	428	A	N7-C8-N9	-5.26	111.17	113.80
25	CA	542	C	N3-C2-O2	5.26	125.58	121.90
25	CA	1339	G	N3-C2-N2	5.26	123.58	119.90
25	CA	1659	G	C4-N9-C1'	-5.26	119.67	126.50
1	BA	897	C	N3-C4-C5	5.25	124.00	121.90
25	CA	499	U	N1-C2-O2	-5.25	119.12	122.80
25	CA	2759	G	N1-C6-O6	-5.25	116.75	119.90
25	DA	13	A	C4-N9-C1'	5.25	135.76	126.30
1	BA	501	C	C6-N1-C2	5.25	122.40	120.30
25	CA	784	G	C8-N9-C4	-5.25	104.30	106.40
25	CA	1045	C	N3-C2-O2	5.25	125.58	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1587	G	N3-C4-N9	5.25	129.15	126.00
25	CA	1638	C	C6-N1-C1'	5.25	127.11	120.80
26	CB	24	G	C5-C6-N1	5.25	114.13	111.50
25	DA	1653	G	C5-C6-O6	-5.25	125.45	128.60
25	CA	93	G	N7-C8-N9	-5.25	110.47	113.10
25	CA	1604	C	N3-C2-O2	-5.25	118.22	121.90
25	CA	1884	G	N9-C4-C5	-5.25	103.30	105.40
25	CA	1965	C	N1-C2-O2	-5.25	115.75	118.90
25	CA	2898	U	N1-C2-O2	5.25	126.48	122.80
25	DA	694	U	N1-C2-O2	5.25	126.48	122.80
25	DA	1217	U	N3-C4-O4	-5.25	115.72	119.40
25	DA	2321	U	N3-C2-O2	5.25	125.88	122.20
1	AA	453	G	C8-N9-C1'	-5.25	120.17	127.00
25	CA	680	C	N3-C2-O2	-5.25	118.22	121.90
25	CA	2002	G	C4-C5-N7	5.25	112.90	110.80
25	DA	2601	C	N3-C4-C5	-5.25	119.80	121.90
25	CA	778	G	C8-N9-C4	-5.25	104.30	106.40
25	CA	1272	A	N1-C6-N6	5.25	121.75	118.60
25	DA	831	G	C5-C6-O6	5.25	131.75	128.60
25	CA	93	G	N3-C2-N2	-5.25	116.23	119.90
25	CA	667	U	C4-C5-C6	-5.25	116.55	119.70
25	CA	1357	C	C2-N1-C1'	-5.25	113.03	118.80
25	CA	2765	A	N9-C4-C5	-5.25	103.70	105.80
26	CB	15	A	C5-N7-C8	-5.25	101.28	103.90
25	DA	2323	G	N3-C2-N2	5.25	123.57	119.90
25	DA	1802	A	C2-N3-C4	-5.25	107.98	110.60
25	DA	2286	G	C4-N9-C1'	-5.25	119.68	126.50
1	AA	759	A	C8-N9-C4	5.24	107.90	105.80
25	CA	962	G	N9-C4-C5	-5.24	103.30	105.40
25	CA	2375	G	N3-C4-N9	-5.24	122.85	126.00
25	CA	2477	U	C2-N1-C1'	-5.24	111.41	117.70
25	CA	2872	A	C4-C5-N7	-5.24	108.08	110.70
25	DA	2828	G	N7-C8-N9	-5.24	110.48	113.10
25	CA	2047	C	C2-N1-C1'	5.24	124.57	118.80
25	DA	527	C	C6-N1-C2	-5.24	118.20	120.30
1	BA	900	A	C5-C6-N6	5.24	127.89	123.70
25	CA	371	A	C5-C6-N6	5.24	127.89	123.70
25	CA	477	A	C6-N1-C2	-5.24	115.46	118.60
25	CA	1319	C	C5-C4-N4	-5.24	116.53	120.20
25	DA	2323	G	N1-C6-O6	-5.24	116.76	119.90
25	CA	832	U	C2-N1-C1'	-5.24	111.41	117.70
25	CA	1555	G	C8-N9-C1'	-5.24	120.19	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1790	C	C5-C4-N4	-5.24	116.53	120.20
25	DA	581	C	C6-N1-C2	-5.24	118.20	120.30
25	DA	1987	A	C8-N9-C4	5.24	107.90	105.80
25	CA	818	G	C8-N9-C1'	-5.24	120.19	127.00
25	CA	323	C	N1-C2-O2	-5.24	115.76	118.90
25	CA	835	C	C6-N1-C2	-5.24	118.21	120.30
25	CA	1234	U	N3-C2-O2	-5.24	118.54	122.20
25	CA	1743	G	C8-N9-C1'	-5.24	120.19	127.00
25	CA	2326	C	C6-N1-C1'	-5.24	114.52	120.80
25	CA	2360	G	C5-C6-O6	-5.24	125.46	128.60
25	CA	2485	G	N3-C2-N2	-5.24	116.23	119.90
25	DA	682	G	N7-C8-N9	-5.24	110.48	113.10
25	DA	771	G	N1-C6-O6	5.24	123.04	119.90
25	DA	1474	U	N3-C2-O2	-5.24	118.53	122.20
25	CA	2540	C	C2-N1-C1'	-5.23	113.04	118.80
25	DA	220	G	C6-C5-N7	-5.23	127.26	130.40
25	DA	1435	G	C4-N9-C1'	-5.23	119.70	126.50
1	BA	1525	G	N9-C4-C5	-5.23	103.31	105.40
25	CA	2512	C	C2-N1-C1'	-5.23	113.04	118.80
25	CA	2547	A	N9-C4-C5	-5.23	103.71	105.80
1	AA	752	G	N1-C6-O6	-5.23	116.76	119.90
25	CA	782	A	C5-C6-N6	-5.23	119.52	123.70
25	CA	1219	U	C2-N1-C1'	-5.23	111.42	117.70
25	CA	1240	U	C5-C4-O4	-5.23	122.76	125.90
25	DA	967	U	N3-C4-C5	-5.23	111.46	114.60
25	DA	1252	G	C8-N9-C4	5.23	108.49	106.40
25	DA	2258	C	C2-N3-C4	-5.23	117.28	119.90
25	DA	2590	A	N1-C6-N6	5.23	121.74	118.60
25	CA	2278	A	C6-C5-N7	-5.23	128.64	132.30
1	AA	1358	U	N3-C4-O4	-5.23	115.74	119.40
25	CA	191	A	N1-C6-N6	-5.23	115.46	118.60
25	CA	2107	G	C5-C6-O6	5.23	131.74	128.60
25	CA	2236	U	C5-C4-O4	5.23	129.04	125.90
25	DA	2590	A	C2-N3-C4	-5.23	107.99	110.60
25	DA	2834	G	N9-C4-C5	-5.23	103.31	105.40
25	CA	530	G	C6-C5-N7	-5.23	127.26	130.40
25	CA	2367	G	C4-C5-C6	-5.23	115.67	118.80
25	DA	525	U	C2-N1-C1'	-5.23	111.43	117.70
1	BA	570	G	C8-N9-C4	-5.22	104.31	106.40
25	CA	215	G	C2-N3-C4	-5.22	109.29	111.90
25	CA	509	C	N1-C2-N3	5.22	122.86	119.20
25	CA	946	C	C2-N3-C4	-5.22	117.29	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1343	G	N1-C2-N2	-5.22	111.50	116.20
25	CA	2067	G	C8-N9-C1'	-5.22	120.21	127.00
25	CA	2412	A	N1-C6-N6	5.22	121.73	118.60
25	CA	2831	G	C4-N9-C1'	5.22	133.29	126.50
25	DA	256	A	N1-C6-N6	-5.22	115.47	118.60
25	DA	1265	A	N1-C2-N3	5.22	131.91	129.30
25	DA	1764	C	C6-N1-C2	-5.22	118.21	120.30
25	DA	2049	G	C6-N1-C2	-5.22	121.97	125.10
25	CA	1407	G	C5-C6-O6	-5.22	125.47	128.60
25	CA	2447	G	C6-C5-N7	-5.22	127.27	130.40
25	CA	2678	C	N1-C2-O2	-5.22	115.77	118.90
25	DA	2649	C	N3-C2-O2	5.22	125.56	121.90
1	BA	1504	G	N9-C4-C5	-5.22	103.31	105.40
25	DA	612	G	N3-C4-C5	-5.22	125.99	128.60
25	DA	1258	U	N3-C2-O2	-5.22	118.55	122.20
25	DA	1326	U	C6-N1-C2	5.22	124.13	121.00
25	DA	2677	G	C5-C6-N1	5.22	114.11	111.50
25	CA	1343	G	N3-C2-N2	5.22	123.55	119.90
25	DA	13	A	C6-C5-N7	-5.22	128.65	132.30
25	DA	605	G	C5-C6-O6	-5.22	125.47	128.60
25	CA	125	A	N1-C6-N6	-5.22	115.47	118.60
25	DA	1006	C	N3-C4-N4	5.22	121.65	118.00
25	DA	2774	C	N1-C2-O2	-5.22	115.77	118.90
25	CA	533	G	C6-C5-N7	-5.22	127.27	130.40
25	CA	1037	G	N9-C4-C5	5.22	107.49	105.40
25	CA	1143	A	C8-N9-C4	-5.22	103.71	105.80
25	CA	1377	G	C8-N9-C4	5.22	108.49	106.40
25	CA	2710	C	N1-C2-N3	5.22	122.85	119.20
1	BA	480	U	N3-C2-O2	5.21	125.85	122.20
1	BA	898	G	N3-C4-C5	5.21	131.21	128.60
25	CA	1213	A	C5-N7-C8	5.21	106.51	103.90
25	CA	1955	U	C6-N1-C1'	5.21	128.50	121.20
25	CA	2367	G	C4-N9-C1'	-5.21	119.72	126.50
25	CA	2371	G	N3-C4-N9	-5.21	122.87	126.00
1	AA	1060	U	N3-C2-O2	5.21	125.85	122.20
1	BA	1084	G	C5-C6-O6	-5.21	125.47	128.60
1	BA	1515	G	C6-C5-N7	-5.21	127.27	130.40
25	CA	380	G	N3-C4-N9	-5.21	122.87	126.00
25	CA	786	C	N3-C2-O2	5.21	125.55	121.90
25	CA	992	C	C6-N1-C2	5.21	122.38	120.30
25	CA	2646	C	N3-C4-N4	5.21	121.65	118.00
25	CA	2717	C	C2-N3-C4	-5.21	117.30	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	CB	12	C	C6-N1-C2	5.21	122.38	120.30
25	DA	2267	A	C4-N9-C1'	5.21	135.68	126.30
1	BA	241	G	N9-C4-C5	5.21	107.48	105.40
1	BA	246	A	C5-C6-N6	-5.21	119.53	123.70
1	BA	894	G	C2-N3-C4	-5.21	109.30	111.90
1	BA	1504	G	N3-C4-C5	5.21	131.20	128.60
25	CA	378	C	C6-N1-C2	5.21	122.38	120.30
25	CA	461	C	N1-C2-N3	5.21	122.85	119.20
25	CA	2504	U	N1-C2-O2	5.21	126.45	122.80
25	DA	2530	A	N1-C6-N6	5.21	121.73	118.60
1	AA	1202	U	N3-C4-O4	-5.21	115.76	119.40
1	AA	1408	A	C8-N9-C4	5.21	107.88	105.80
1	BA	354	G	C6-C5-N7	-5.21	127.28	130.40
25	CA	481	G	N3-C2-N2	-5.21	116.25	119.90
25	CA	620	G	N3-C4-N9	-5.21	122.88	126.00
25	CA	1623	G	N3-C4-C5	5.21	131.20	128.60
25	CA	1817	G	N7-C8-N9	-5.21	110.50	113.10
25	CA	2321	U	C2-N1-C1'	-5.21	111.45	117.70
25	DA	2596	U	N1-C2-O2	5.21	126.44	122.80
25	CA	1043	C	N3-C4-C5	5.21	123.98	121.90
25	CA	2679	A	C5-C6-N6	-5.21	119.54	123.70
26	CB	114	C	N3-C2-O2	5.21	125.54	121.90
25	CA	321	U	N3-C2-O2	-5.20	118.56	122.20
25	CA	2890	G	C4-C5-N7	5.20	112.88	110.80
25	CA	2898	U	N3-C2-O2	-5.20	118.56	122.20
25	DA	790	U	N3-C4-O4	-5.20	115.76	119.40
25	DA	830	G	N1-C6-O6	-5.20	116.78	119.90
25	DA	2323	G	N3-C4-N9	5.20	129.12	126.00
25	CA	1228	G	N9-C4-C5	5.20	107.48	105.40
25	DA	2518	A	C4-N9-C1'	5.20	135.66	126.30
1	BA	1303	C	C6-N1-C2	-5.20	118.22	120.30
25	CA	1415	U	N3-C2-O2	-5.20	118.56	122.20
25	CA	2396	G	C4-C5-N7	-5.20	108.72	110.80
25	CA	2722	G	N1-C6-O6	-5.20	116.78	119.90
25	DA	518	G	N3-C2-N2	-5.20	116.26	119.90
25	DA	726	G	N3-C4-N9	-5.20	122.88	126.00
25	DA	2232	C	N3-C4-N4	5.20	121.64	118.00
25	DA	2609	U	C2-N1-C1'	-5.20	111.46	117.70
25	DA	2827	C	N3-C4-N4	-5.20	114.36	118.00
1	AA	796	C	C6-N1-C1'	-5.20	114.56	120.80
25	CA	2390	U	C6-N1-C2	5.20	124.12	121.00
25	CA	672	C	C4-C5-C6	5.20	120.00	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1521	G	C4-C5-C6	5.20	121.92	118.80
25	CA	1572	A	C5-C6-N6	5.20	127.86	123.70
25	CA	2514	U	C5-C6-N1	-5.20	120.10	122.70
25	DA	205	G	C2-N3-C4	5.20	114.50	111.90
25	DA	256	A	C4-C5-N7	-5.20	108.10	110.70
25	DA	728	G	C8-N9-C4	5.20	108.48	106.40
1	BA	926	G	N1-C6-O6	-5.20	116.78	119.90
25	CA	815	C	N3-C2-O2	5.20	125.54	121.90
25	CA	905	A	C8-N9-C4	5.20	107.88	105.80
25	CA	2371	G	N3-C2-N2	-5.20	116.26	119.90
1	BA	1482	G	C4-C5-C6	5.19	121.92	118.80
25	DA	1610	A	N1-C6-N6	5.19	121.72	118.60
25	CA	1050	A	C5-C6-N6	-5.19	119.55	123.70
1	AA	836	G	C5-C6-O6	-5.19	125.49	128.60
25	CA	9	G	C4-C5-C6	5.19	121.92	118.80
25	DA	808	G	C4-N9-C1'	5.19	133.25	126.50
25	DA	1633	G	N3-C4-N9	5.19	129.11	126.00
25	DA	2070	A	N7-C8-N9	-5.19	111.20	113.80
25	DA	2277	G	N9-C4-C5	5.19	107.48	105.40
1	BA	117	G	N3-C4-N9	5.19	129.11	126.00
1	BA	803	G	C4-C5-N7	-5.19	108.72	110.80
1	BA	898	G	C4-N9-C1'	-5.19	119.76	126.50
25	CA	1761	C	C5-C4-N4	-5.19	116.57	120.20
1	BA	1515	G	C4-C5-C6	5.18	121.91	118.80
25	CA	517	C	C5-C4-N4	-5.18	116.57	120.20
25	CA	1213	A	N7-C8-N9	-5.18	111.21	113.80
25	CA	2523	G	N3-C4-N9	5.18	129.11	126.00
26	CB	75	G	C5-C6-O6	5.18	131.71	128.60
25	CA	873	C	N3-C4-C5	5.18	123.97	121.90
25	CA	1492	G	C2-N3-C4	-5.18	109.31	111.90
25	CA	1721	G	N3-C4-N9	5.18	129.11	126.00
25	DA	581	C	C4-C5-C6	5.18	119.99	117.40
56	DB	87	U	C2-N1-C1'	5.18	123.92	117.70
1	AA	430	A	N1-C6-N6	5.18	121.71	118.60
25	DA	2069	G	C8-N9-C4	5.18	108.47	106.40
25	CA	175	G	N3-C4-C5	5.18	131.19	128.60
25	CA	260	G	N3-C2-N2	-5.18	116.27	119.90
25	CA	971	G	N3-C4-C5	-5.18	126.01	128.60
25	DA	2501	C	C6-N1-C2	-5.18	118.23	120.30
25	DA	2705	A	C8-N9-C4	5.18	107.87	105.80
25	CA	2108	A	C8-N9-C4	-5.18	103.73	105.80
25	DA	636	G	N3-C4-N9	5.18	129.11	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1288	G	N3-C2-N2	5.18	123.53	119.90
1	AA	859	G	C6-C5-N7	-5.18	127.30	130.40
1	BA	211	G	N3-C4-N9	5.18	129.11	126.00
25	CA	1809	A	N1-C6-N6	-5.18	115.49	118.60
25	DA	574	A	C2-N3-C4	-5.18	108.01	110.60
25	CA	9	G	C4-N9-C1'	5.17	133.23	126.50
25	CA	1212	G	N7-C8-N9	-5.17	110.51	113.10
25	DA	123	G	N3-C4-C5	5.17	131.19	128.60
25	DA	467	G	N1-C6-O6	5.17	123.00	119.90
25	DA	831	G	N1-C6-O6	-5.17	116.80	119.90
25	DA	1311	G	C6-C5-N7	-5.17	127.30	130.40
25	DA	2294	G	C4-N9-C1'	-5.17	119.77	126.50
1	BA	566	G	N3-C4-C5	-5.17	126.01	128.60
1	BA	1081	A	C6-C5-N7	-5.17	128.68	132.30
25	CA	2590	A	N1-C2-N3	5.17	131.89	129.30
25	CA	240	C	C6-N1-C2	-5.17	118.23	120.30
25	CA	645	C	N3-C2-O2	5.17	125.52	121.90
25	CA	686	U	N1-C2-O2	-5.17	119.18	122.80
25	CA	2724	U	C2-N1-C1'	-5.17	111.49	117.70
25	CA	2808	G	C6-C5-N7	-5.17	127.30	130.40
25	DA	2738	A	N1-C6-N6	-5.17	115.50	118.60
25	CA	109	C	C6-N1-C2	5.17	122.37	120.30
25	CA	1022	G	C5-C6-N1	-5.17	108.92	111.50
25	CA	1265	A	C4-C5-C6	5.17	119.58	117.00
25	CA	2276	G	N1-C2-N3	5.17	127.00	123.90
25	CA	873	C	C2-N1-C1'	-5.17	113.11	118.80
25	CA	991	C	N3-C2-O2	5.17	125.52	121.90
25	CA	1404	C	N3-C2-O2	5.17	125.52	121.90
25	DA	85	G	N3-C2-N2	-5.17	116.28	119.90
25	DA	784	G	C6-C5-N7	-5.17	127.30	130.40
25	DA	812	C	C6-N1-C2	-5.17	118.23	120.30
25	DA	1163	G	N1-C6-O6	5.17	123.00	119.90
25	DA	1967	C	N3-C2-O2	5.17	125.52	121.90
25	DA	2046	G	C4-C5-N7	5.17	112.87	110.80
1	AA	46	G	N3-C4-C5	5.17	131.18	128.60
1	BA	771	G	C5-C6-O6	5.17	131.70	128.60
25	CA	1271	G	C8-N9-C4	5.17	108.47	106.40
25	CA	1844	C	N1-C2-O2	-5.17	115.80	118.90
25	CA	2439	A	N9-C4-C5	-5.17	103.73	105.80
25	CA	2569	G	N9-C4-C5	5.17	107.47	105.40
25	CA	2733	A	C8-N9-C4	-5.17	103.73	105.80
34	CJ	5	THR	CB-CA-C	-5.17	97.65	111.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	974	G	C3'-C2'-C1'	-5.17	97.37	101.50
1	AA	679	C	C6-N1-C1'	-5.16	114.60	120.80
25	CA	2066	C	N3-C2-O2	-5.16	118.28	121.90
25	DA	1327	A	N1-C6-N6	5.16	121.70	118.60
25	DA	1415	U	N1-C2-O2	5.16	126.41	122.80
25	DA	1621	U	N1-C2-O2	-5.16	119.19	122.80
1	BA	380	G	N9-C4-C5	-5.16	103.33	105.40
25	DA	253	C	C6-N1-C1'	5.16	126.99	120.80
1	AA	1417	G	C6-C5-N7	-5.16	127.30	130.40
25	CA	675	A	N9-C4-C5	5.16	107.86	105.80
25	CA	1142	A	C5-C6-N6	5.16	127.83	123.70
25	CA	1574	C	N3-C4-C5	5.16	123.96	121.90
25	DA	1415	U	C2-N1-C1'	5.16	123.89	117.70
25	DA	2076	U	N1-C2-N3	5.16	118.00	114.90
25	DA	2823	A	N1-C6-N6	5.16	121.70	118.60
25	CA	975	A	N9-C4-C5	5.16	107.86	105.80
25	CA	1783	A	C5-C6-N6	-5.16	119.57	123.70
25	CA	1972	G	C5-C6-N1	5.16	114.08	111.50
26	CB	74	U	N1-C2-N3	5.16	118.00	114.90
25	DA	2539	C	C5-C6-N1	-5.16	118.42	121.00
1	BA	533	A	N1-C6-N6	5.16	121.69	118.60
25	CA	1011	G	N3-C2-N2	-5.16	116.29	119.90
25	CA	2059	A	C6-C5-N7	-5.16	128.69	132.30
25	DA	571	U	N1-C2-O2	-5.16	119.19	122.80
25	DA	1709	U	N1-C2-O2	-5.16	119.19	122.80
25	DA	1941	C	N3-C2-O2	5.16	125.51	121.90
25	DA	2738	A	N3-C4-N9	-5.16	123.28	127.40
25	CA	1711	A	C6-C5-N7	5.15	135.91	132.30
25	CA	2057	G	N1-C2-N2	-5.15	111.56	116.20
25	CA	2884	U	N3-C2-O2	-5.15	118.59	122.20
51	D0	27	LEU	CA-CB-CG	5.15	127.15	115.30
1	BA	60	A	N1-C6-N6	-5.15	115.51	118.60
25	CA	725	G	C4-C5-C6	5.15	121.89	118.80
25	CA	783	A	C2-N3-C4	-5.15	108.02	110.60
25	CA	790	U	N3-C2-O2	5.15	125.81	122.20
25	CA	984	A	C5-C6-N6	-5.15	119.58	123.70
25	CA	1426	G	C4-C5-N7	5.15	112.86	110.80
25	CA	2831	G	C6-C5-N7	-5.15	127.31	130.40
25	DA	2714	G	N3-C4-C5	-5.15	126.02	128.60
1	AA	802	A	N1-C6-N6	5.15	121.69	118.60
1	BA	1090	U	N3-C4-O4	-5.15	115.79	119.40
25	CA	239	C	C5-C4-N4	-5.15	116.59	120.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BA	1514	G	C5-C6-O6	-5.15	125.51	128.60
25	CA	293	U	C5-C6-N1	-5.15	120.13	122.70
25	DA	488	G	N3-C4-C5	-5.15	126.03	128.60
22	AV	70	G	N1-C6-O6	-5.15	116.81	119.90
25	CA	2355	G	C8-N9-C4	5.15	108.46	106.40
25	CA	2477	U	N3-C4-O4	-5.15	115.80	119.40
25	CA	2553	G	C6-C5-N7	-5.15	127.31	130.40
25	CA	2813	A	N9-C4-C5	-5.15	103.74	105.80
25	DA	1239	G	C5-C6-O6	5.15	131.69	128.60
25	DA	1331	G	N3-C4-C5	-5.15	126.03	128.60
25	DA	1435	G	C8-N9-C1'	5.15	133.69	127.00
25	DA	1818	U	C2-N1-C1'	-5.15	111.52	117.70
25	DA	2840	C	C2-N1-C1'	-5.15	113.14	118.80
25	CA	1430	G	C8-N9-C4	5.15	108.46	106.40
25	DA	2158	A	N9-C4-C5	-5.15	103.74	105.80
25	CA	1673	G	N3-C4-C5	5.14	131.17	128.60
25	CA	2305	U	C2-N1-C1'	-5.14	111.53	117.70
25	DA	23	G	C5-C6-O6	5.14	131.69	128.60
25	DA	2328	A	N1-C6-N6	-5.14	115.51	118.60
1	AA	609	A	N1-C6-N6	5.14	121.69	118.60
1	BA	804	U	C6-N1-C2	-5.14	117.91	121.00
1	BA	318	G	C4-C5-N7	-5.14	108.74	110.80
1	BA	819	A	C8-N9-C4	-5.14	103.74	105.80
1	BA	1183	U	N3-C2-O2	-5.14	118.60	122.20
25	CA	526	A	C5-C6-N6	5.14	127.81	123.70
25	CA	690	G	N3-C4-C5	5.14	131.17	128.60
25	CA	827	U	C5-C4-O4	-5.14	122.82	125.90
25	CA	1322	A	C2-N3-C4	-5.14	108.03	110.60
25	CA	2632	A	N9-C4-C5	5.14	107.86	105.80
25	CA	2748	A	N1-C6-N6	-5.14	115.52	118.60
25	DA	96	C	N1-C2-O2	-5.14	115.82	118.90
25	DA	517	C	N1-C2-O2	-5.14	115.82	118.90
25	DA	2246	G	N1-C6-O6	5.14	122.98	119.90
1	AA	90	C	N3-C4-N4	-5.14	114.40	118.00
1	AA	875	U	N1-C2-O2	5.14	126.40	122.80
1	AA	897	C	N1-C2-O2	-5.14	115.82	118.90
25	CA	551	G	C8-N9-C4	5.14	108.45	106.40
25	DA	1910	G	N9-C4-C5	5.14	107.45	105.40
25	CA	2723	C	N3-C2-O2	-5.14	118.31	121.90
25	DA	2002	G	C4-N9-C1'	-5.14	119.82	126.50
25	DA	2864	G	N1-C6-O6	-5.14	116.82	119.90
1	BA	1175	G	C8-N9-C1'	5.13	133.68	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	315	G	N1-C6-O6	-5.13	116.82	119.90
25	DA	2688	G	C2-N3-C4	-5.13	109.33	111.90
25	CA	992	C	N3-C2-O2	5.13	125.49	121.90
25	CA	2468	A	C4-C5-C6	5.13	119.57	117.00
1	AA	251	G	N1-C6-O6	5.13	122.98	119.90
25	CA	131	A	N1-C6-N6	5.13	121.68	118.60
25	CA	1158	C	C2-N3-C4	-5.13	117.33	119.90
26	CB	66	A	C2-N3-C4	-5.13	108.03	110.60
25	DA	1278	C	C2-N1-C1'	-5.13	113.16	118.80
25	DA	2437	G	N1-C6-O6	5.13	122.98	119.90
25	CA	240	C	N3-C4-N4	5.13	121.59	118.00
25	CA	914	G	C4-C5-C6	-5.13	115.72	118.80
25	DA	2742	G	N3-C4-N9	-5.13	122.92	126.00
1	AA	894	G	N1-C6-O6	5.13	122.98	119.90
1	AA	1486	G	C5-C6-O6	-5.13	125.52	128.60
25	CA	989	G	N1-C2-N2	5.13	120.82	116.20
25	CA	2750	A	N9-C4-C5	5.13	107.85	105.80
25	DA	1936	A	N1-C6-N6	5.13	121.68	118.60
1	AA	331	G	N3-C4-C5	5.13	131.16	128.60
1	AA	782	A	C2-N3-C4	-5.13	108.04	110.60
1	BA	1522	U	C2-N1-C1'	-5.13	111.55	117.70
25	CA	642	U	N3-C2-O2	5.13	125.79	122.20
25	CA	1181	U	N1-C2-O2	-5.13	119.21	122.80
25	CA	1470	A	C4-C5-N7	-5.13	108.14	110.70
25	CA	2546	U	N3-C2-O2	5.13	125.79	122.20
25	DA	464	U	N1-C2-N3	5.13	117.98	114.90
25	DA	517	C	C6-N1-C2	-5.13	118.25	120.30
25	DA	752	A	C6-C5-N7	-5.13	128.71	132.30
25	DA	2252	G	N3-C4-C5	5.13	131.16	128.60
25	DA	493	G	C4-N9-C1'	-5.12	119.84	126.50
25	DA	681	G	C5-C6-O6	-5.12	125.53	128.60
25	DA	741	U	N3-C2-O2	5.12	125.79	122.20
25	DA	982	C	N3-C2-O2	-5.12	118.31	121.90
25	CA	1386	C	N1-C2-O2	-5.12	115.83	118.90
25	CA	1898	U	C2-N1-C1'	-5.12	111.55	117.70
25	CA	2699	C	C2-N3-C4	-5.12	117.34	119.90
25	DA	776	G	C8-N9-C1'	-5.12	120.34	127.00
1	AA	906	A	C4-C5-C6	5.12	119.56	117.00
1	BA	795	C	N1-C2-N3	5.12	122.78	119.20
25	CA	1331	G	C8-N9-C4	5.12	108.45	106.40
25	CA	1336	A	C5-C6-N6	5.12	127.80	123.70
25	DA	2446	G	C2-N3-C4	-5.12	109.34	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	1901	A	N1-C6-N6	-5.12	115.53	118.60
1	AA	1406	U	C5-C6-N1	-5.12	120.14	122.70
1	AA	1499	A	N3-C4-C5	5.12	130.38	126.80
25	CA	382	A	C5-C6-N6	-5.12	119.61	123.70
25	CA	602	A	N1-C6-N6	5.12	121.67	118.60
25	CA	752	A	N9-C4-C5	-5.12	103.75	105.80
25	CA	808	G	N1-C6-O6	5.12	122.97	119.90
25	CA	1016	G	N1-C2-N3	-5.12	120.83	123.90
25	CA	1395	A	C4-N9-C1'	-5.12	117.08	126.30
26	CB	51	G	C6-C5-N7	-5.12	127.33	130.40
25	DA	1621	U	N3-C2-O2	5.12	125.78	122.20
25	CA	470	A	N7-C8-N9	5.12	116.36	113.80
22	AV	72	C	C6-N1-C2	5.12	122.35	120.30
25	CA	724	U	C5-C4-O4	-5.12	122.83	125.90
25	DA	2610	C	C6-N1-C2	-5.12	118.25	120.30
25	DA	2834	G	C8-N9-C4	5.12	108.45	106.40
1	AA	1331	G	C4-N9-C1'	-5.11	119.85	126.50
1	BA	159	G	C4-N9-C1'	5.11	133.15	126.50
25	CA	58	G	N1-C6-O6	-5.11	116.83	119.90
25	CA	517	C	C6-N1-C2	5.11	122.34	120.30
25	CA	1189	A	C6-N1-C2	-5.11	115.53	118.60
25	DA	129	C	C2-N3-C4	-5.11	117.34	119.90
25	DA	689	A	N1-C6-N6	5.11	121.67	118.60
25	DA	1637	A	C8-N9-C4	5.11	107.85	105.80
25	DA	2677	G	N3-C2-N2	-5.11	116.32	119.90
1	AA	732	C	N1-C2-O2	-5.11	115.83	118.90
1	BA	1455	G	C8-N9-C1'	5.11	133.65	127.00
25	CA	1856	U	C5-C4-O4	5.11	128.97	125.90
25	CA	2679	A	N9-C4-C5	-5.11	103.75	105.80
25	DA	1435	G	N3-C4-N9	-5.11	122.93	126.00
25	DA	2771	C	N1-C2-O2	-5.11	115.83	118.90
25	CA	39	G	C2-N3-C4	5.11	114.46	111.90
25	CA	121	G	C2-N3-C4	-5.11	109.34	111.90
25	CA	423	A	C8-N9-C4	5.11	107.84	105.80
26	CB	15	A	C4-C5-N7	5.11	113.25	110.70
25	CA	1526	C	N3-C4-C5	5.11	123.94	121.90
25	DA	110	G	C8-N9-C4	5.11	108.44	106.40
25	DA	1675	C	N3-C4-C5	-5.11	119.86	121.90
25	CA	1114	C	N1-C2-O2	5.11	121.96	118.90
25	CA	1684	G	C5-C6-O6	-5.11	125.53	128.60
25	CA	2248	C	N1-C2-N3	5.11	122.78	119.20
25	DA	151	C	N1-C2-O2	-5.11	115.83	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1786	A	N3-C4-C5	-5.11	123.22	126.80
25	DA	1788	C	N1-C2-N3	5.11	122.78	119.20
25	DA	2278	A	N9-C4-C5	-5.11	103.76	105.80
1	AA	331	G	C2-N3-C4	-5.11	109.35	111.90
25	CA	322	A	N1-C6-N6	-5.11	115.54	118.60
25	CA	522	A	C5-N7-C8	5.11	106.45	103.90
25	CA	1638	C	C2-N1-C1'	-5.11	113.19	118.80
25	DA	454	A	N1-C6-N6	5.11	121.66	118.60
25	DA	798	G	C8-N9-C4	-5.11	104.36	106.40
25	CA	787	C	N1-C2-N3	5.10	122.77	119.20
25	CA	987	C	N1-C2-O2	-5.10	115.84	118.90
25	CA	1238	G	N3-C4-C5	-5.10	126.05	128.60
25	CA	2841	C	N1-C2-N3	5.10	122.77	119.20
25	DA	1247	A	C2-N3-C4	-5.10	108.05	110.60
1	AA	815	A	N9-C4-C5	5.10	107.84	105.80
1	AA	966	G	C8-N9-C4	5.10	108.44	106.40
25	CA	841	G	C8-N9-C4	5.10	108.44	106.40
25	DA	177	G	N1-C2-N2	-5.10	111.61	116.20
25	DA	1403	A	N9-C4-C5	5.10	107.84	105.80
25	DA	2307	G	N3-C4-C5	-5.10	126.05	128.60
25	CA	2053	G	N9-C4-C5	-5.10	103.36	105.40
25	CA	130	C	C4-C5-C6	5.10	119.95	117.40
25	CA	190	A	N1-C6-N6	-5.10	115.54	118.60
25	CA	211	C	N3-C2-O2	-5.10	118.33	121.90
25	CA	411	G	C8-N9-C4	-5.10	104.36	106.40
25	DA	96	C	C6-N1-C2	5.10	122.34	120.30
25	DA	2437	G	C8-N9-C4	5.10	108.44	106.40
1	AA	904	U	C2-N1-C1'	-5.10	111.58	117.70
25	CA	59	U	C5-C4-O4	5.10	128.96	125.90
25	CA	1454	C	C6-N1-C2	5.10	122.34	120.30
25	DA	2874	C	N3-C2-O2	5.10	125.47	121.90
25	CA	1008	A	C6-N1-C2	-5.09	115.54	118.60
25	CA	2337	G	C5-C6-O6	-5.09	125.54	128.60
25	CA	2859	G	C8-N9-C4	-5.09	104.36	106.40
25	CA	2875	C	C2-N3-C4	-5.09	117.35	119.90
25	DA	1975	G	N3-C2-N2	5.09	123.47	119.90
25	DA	2582	G	C5-C6-O6	5.09	131.66	128.60
25	DA	1360	G	C4-C5-N7	-5.09	108.76	110.80
1	BA	705	G	C4-C5-N7	-5.09	108.76	110.80
25	CA	218	A	C5-N7-C8	-5.09	101.35	103.90
25	CA	245	G	N9-C4-C5	5.09	107.44	105.40
25	DA	789	A	N7-C8-N9	-5.09	111.25	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2144	G	C8-N9-C4	-5.09	104.36	106.40
25	DA	2549	G	N3-C4-C5	-5.09	126.05	128.60
1	AA	78	A	N3-C4-N9	5.09	131.47	127.40
22	AV	72	C	C5-C6-N1	-5.09	118.45	121.00
25	DA	246	C	N3-C4-N4	5.09	121.56	118.00
25	DA	2440	C	C2-N3-C4	5.09	122.44	119.90
25	CA	2633	G	N9-C4-C5	5.09	107.44	105.40
25	DA	1786	A	C5-N7-C8	5.09	106.44	103.90
1	BA	219	U	C2-N1-C1'	-5.09	111.60	117.70
25	CA	518	G	C8-N9-C4	5.09	108.44	106.40
25	CA	737	C	C5-C4-N4	-5.09	116.64	120.20
25	DA	518	G	C5-C6-O6	-5.09	125.55	128.60
25	DA	1928	A	C5-C6-N6	-5.09	119.63	123.70
25	DA	2885	G	N9-C4-C5	5.09	107.44	105.40
1	AA	1047	G	N3-C4-N9	-5.08	122.95	126.00
25	CA	54	G	C5-C6-N1	5.08	114.04	111.50
25	CA	424	G	N3-C4-C5	5.08	131.14	128.60
25	CA	476	G	C6-C5-N7	5.08	133.45	130.40
25	CA	1617	C	C2-N3-C4	-5.08	117.36	119.90
26	CB	51	G	C8-N9-C4	-5.08	104.37	106.40
53	C2	12	ARG	NE-CZ-NH2	5.08	122.84	120.30
25	DA	210	C	C5-C6-N1	-5.08	118.46	121.00
25	CA	218	A	C4-C5-N7	5.08	113.24	110.70
25	CA	638	G	N1-C6-O6	-5.08	116.85	119.90
25	CA	830	G	C5-C6-N1	5.08	114.04	111.50
25	CA	922	C	N3-C2-O2	5.08	125.46	121.90
25	CA	2729	G	C8-N9-C1'	-5.08	120.39	127.00
25	DA	324	A	N9-C4-C5	-5.08	103.77	105.80
25	DA	1954	G	C6-C5-N7	-5.08	127.35	130.40
25	DA	2575	C	C6-N1-C1'	5.08	126.90	120.80
25	DA	2820	A	C8-N9-C4	5.08	107.83	105.80
25	CA	304	U	N1-C2-O2	-5.08	119.24	122.80
25	CA	668	A	C2-N3-C4	-5.08	108.06	110.60
25	CA	735	A	C2-N3-C4	-5.08	108.06	110.60
1	BA	428	G	N1-C2-N3	-5.08	120.85	123.90
25	CA	74	A	C6-N1-C2	-5.08	115.55	118.60
25	CA	392	U	N1-C2-O2	-5.08	119.24	122.80
25	CA	2726	A	N1-C6-N6	-5.08	115.55	118.60
1	AA	876	C	C2-N3-C4	-5.08	117.36	119.90
1	BA	545	C	N3-C4-C5	5.08	123.93	121.90
1	BA	741	G	C8-N9-C4	5.08	108.43	106.40
25	CA	336	C	N1-C2-O2	-5.08	115.85	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	540	C	N1-C2-O2	-5.08	115.85	118.90
25	CA	738	G	N7-C8-N9	5.08	115.64	113.10
25	CA	2039	U	N1-C2-N3	5.08	117.95	114.90
1	BA	1518	A	C4-C5-C6	5.08	119.54	117.00
25	DA	675	A	N9-C4-C5	-5.08	103.77	105.80
1	BA	1482	G	C6-C5-N7	-5.08	127.35	130.40
25	CA	598	U	N1-C2-O2	-5.08	119.25	122.80
25	CA	2331	G	C5-C6-O6	-5.08	125.56	128.60
25	DA	717	C	C6-N1-C2	5.08	122.33	120.30
25	DA	2446	G	N3-C2-N2	-5.08	116.35	119.90
1	BA	284	C	C6-N1-C2	5.07	122.33	120.30
25	CA	453	A	C4-C5-C6	5.07	119.54	117.00
25	CA	752	A	C1'-O4'-C4'	-5.07	105.84	109.90
25	CA	774	G	N1-C2-N2	-5.07	111.63	116.20
25	DA	374	A	C5-C6-N6	-5.07	119.64	123.70
25	DA	379	G	C5-C6-O6	-5.07	125.56	128.60
25	DA	533	G	N1-C6-O6	5.07	122.94	119.90
1	AA	23	C	N1-C2-O2	-5.07	115.86	118.90
1	BA	821	G	C8-N9-C4	5.07	108.43	106.40
25	CA	572	A	C5-N7-C8	-5.07	101.36	103.90
25	CA	1646	C	C5-C6-N1	-5.07	118.47	121.00
25	CA	1766	G	N7-C8-N9	-5.07	110.56	113.10
43	CS	73	LYS	CD-CE-NZ	5.07	123.36	111.70
25	DA	1009	A	C4-C5-C6	-5.07	114.46	117.00
1	AA	1331	G	N3-C4-N9	-5.07	122.96	126.00
25	CA	470	A	C6-C5-N7	-5.07	128.75	132.30
25	CA	2743	U	C5-C6-N1	-5.07	120.17	122.70
25	DA	585	G	C4-C5-N7	-5.07	108.77	110.80
25	DA	1820	U	N3-C4-O4	-5.07	115.85	119.40
25	DA	2900	A	N1-C6-N6	-5.07	115.56	118.60
1	AA	571	U	N3-C2-O2	5.07	125.75	122.20
25	CA	1240	U	N3-C2-O2	5.07	125.75	122.20
25	DA	398	C	N3-C2-O2	5.07	125.45	121.90
25	DA	2002	G	N3-C4-C5	5.07	131.13	128.60
1	AA	714	G	C5-C6-N1	5.07	114.03	111.50
25	CA	101	A	C5-C6-N1	-5.07	115.17	117.70
25	CA	379	G	N1-C6-O6	5.07	122.94	119.90
25	CA	963	U	N1-C2-O2	-5.07	119.25	122.80
25	CA	1232	G	C5-C6-O6	5.07	131.64	128.60
25	CA	1836	C	N3-C4-C5	5.07	123.93	121.90
25	CA	2034	U	C6-N1-C2	5.07	124.04	121.00
25	DA	2050	C	C6-N1-C2	-5.07	118.27	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	575	A	N9-C4-C5	5.06	107.83	105.80
25	CA	322	A	C5-C6-N6	5.06	127.75	123.70
25	CA	1878	G	N1-C6-O6	5.06	122.94	119.90
25	DA	210	C	N3-C2-O2	5.06	125.44	121.90
25	DA	1678	A	N1-C2-N3	5.06	131.83	129.30
25	DA	1903	G	C4-N9-C1'	-5.06	119.92	126.50
25	DA	2064	C	N3-C4-C5	-5.06	119.88	121.90
25	DA	2626	C	C2-N3-C4	-5.06	117.37	119.90
25	CA	803	U	C2-N1-C1'	5.06	123.77	117.70
25	DA	946	C	N1-C2-O2	-5.06	115.86	118.90
1	AA	910	C	N1-C2-O2	-5.06	115.87	118.90
1	BA	347	G	C4-N9-C1'	-5.06	119.92	126.50
25	CA	151	C	N1-C2-O2	-5.06	115.86	118.90
25	CA	598	U	N3-C4-O4	-5.06	115.86	119.40
25	CA	2689	U	N3-C4-C5	5.06	117.64	114.60
25	DA	1759	A	C5-C6-N6	-5.06	119.65	123.70
25	DA	2822	G	C8-N9-C4	5.06	108.42	106.40
1	AA	586	C	N3-C4-C5	5.06	123.92	121.90
38	CN	86	ARG	NE-CZ-NH2	-5.06	117.77	120.30
1	BA	245	U	C5-C6-N1	-5.05	120.17	122.70
25	CA	626	A	C5-C6-N1	-5.05	115.17	117.70
25	CA	713	G	N9-C4-C5	-5.05	103.38	105.40
25	CA	1640	A	N9-C4-C5	5.05	107.82	105.80
25	CA	2504	U	N3-C4-C5	5.05	117.63	114.60
25	DA	954	G	C5-C6-O6	5.05	131.63	128.60
25	DA	1256	G	C4-N9-C1'	5.05	133.07	126.50
1	BA	60	A	C5-C6-N6	5.05	127.74	123.70
25	CA	235	U	C5-C6-N1	-5.05	120.17	122.70
1	AA	957	U	C2-N1-C1'	5.05	123.76	117.70
1	BA	1035	A	N1-C6-N6	5.05	121.63	118.60
25	CA	565	C	C2-N3-C4	-5.05	117.37	119.90
25	CA	2382	G	N3-C4-C5	-5.05	126.07	128.60
26	CB	108	A	N1-C6-N6	-5.05	115.57	118.60
25	DA	1768	C	C6-N1-C2	-5.05	118.28	120.30
25	DA	2811	G	C2-N3-C4	-5.05	109.38	111.90
1	BA	365	U	C5-C4-O4	5.05	128.93	125.90
1	BA	807	A	C2-N3-C4	5.05	113.12	110.60
1	BA	898	G	N3-C4-N9	-5.05	122.97	126.00
25	CA	1325	U	C6-N1-C1'	5.05	128.27	121.20
25	CA	1639	C	N1-C2-O2	-5.05	115.87	118.90
25	DA	1299	G	N3-C2-N2	5.05	123.44	119.90
1	AA	1417	G	N1-C2-N2	-5.05	111.66	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	664	G	N9-C4-C5	5.05	107.42	105.40
25	DA	39	G	C4-N9-C1'	-5.05	119.94	126.50
1	AA	265	G	C8-N9-C1'	5.05	133.56	127.00
25	DA	1270	C	N3-C2-O2	5.05	125.43	121.90
25	CA	1191	G	C8-N9-C4	5.04	108.42	106.40
25	CA	2069	G	C5-N7-C8	-5.04	101.78	104.30
25	CA	2481	G	C8-N9-C4	-5.04	104.38	106.40
25	DA	2232	C	N3-C4-C5	-5.04	119.88	121.90
25	DA	2707	U	N3-C4-O4	-5.04	115.87	119.40
1	AA	4	U	C2-N1-C1'	5.04	123.75	117.70
1	AA	874	G	N3-C4-N9	5.04	129.03	126.00
1	BA	207	C	C2-N1-C1'	5.04	124.35	118.80
1	BA	1480	A	C6-C5-N7	-5.04	128.77	132.30
25	CA	2621	G	N1-C2-N3	5.04	126.93	123.90
25	DA	466	A	C5-N7-C8	5.04	106.42	103.90
25	DA	1657	U	N1-C2-N3	5.04	117.93	114.90
25	DA	2448	A	C4-C5-N7	5.04	113.22	110.70
25	DA	2825	G	C4-N9-C1'	5.04	133.06	126.50
1	BA	1386	G	C4-N9-C1'	-5.04	119.95	126.50
25	CA	486	C	C5-C4-N4	-5.04	116.67	120.20
25	CA	681	G	C8-N9-C1'	-5.04	120.45	127.00
25	DA	374	A	N1-C6-N6	5.04	121.62	118.60
25	DA	2555	U	N3-C4-C5	5.04	117.62	114.60
1	BA	377	G	N7-C8-N9	5.04	115.62	113.10
1	AA	35	G	N1-C2-N2	-5.04	111.67	116.20
1	AA	575	G	N9-C4-C5	5.04	107.42	105.40
1	AA	870	U	N3-C2-O2	5.04	125.73	122.20
25	CA	602	A	C5-C6-N6	-5.04	119.67	123.70
25	DA	325	G	C6-C5-N7	5.04	133.42	130.40
25	DA	2282	G	C4-C5-N7	-5.04	108.78	110.80
25	DA	2357	G	C5-C6-O6	-5.04	125.58	128.60
25	CA	123	G	N1-C6-O6	-5.04	116.88	119.90
25	DA	1303	G	N1-C6-O6	-5.04	116.88	119.90
25	DA	2447	G	C8-N9-C1'	5.04	133.55	127.00
1	BA	1494	G	N9-C4-C5	5.04	107.42	105.40
25	CA	385	C	N1-C2-O2	-5.04	115.88	118.90
25	DA	958	U	C2-N1-C1'	-5.04	111.66	117.70
1	AA	28	A	N1-C6-N6	5.03	121.62	118.60
25	CA	1844	C	C6-N1-C2	5.03	122.31	120.30
26	CB	14	U	N3-C2-O2	-5.03	118.68	122.20
25	DA	247	G	C2-N3-C4	5.03	114.42	111.90
25	DA	809	G	C8-N9-C4	-5.03	104.39	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1458	U	C2-N1-C1'	-5.03	111.66	117.70
25	CA	1901	A	N9-C4-C5	5.03	107.81	105.80
25	CA	2053	G	N3-C4-N9	5.03	129.02	126.00
25	CA	2266	A	N9-C4-C5	5.03	107.81	105.80
25	DA	2133	G	N3-C4-C5	-5.03	126.08	128.60
1	AA	453	G	N9-C4-C5	-5.03	103.39	105.40
25	CA	468	G	C8-N9-C4	-5.03	104.39	106.40
25	CA	2087	G	C4-C5-N7	5.03	112.81	110.80
25	DA	2583	G	C5-C6-N1	5.03	114.02	111.50
25	CA	1126	A	C6-N1-C2	-5.03	115.58	118.60
25	CA	1694	C	C6-N1-C2	5.03	122.31	120.30
25	CA	2133	G	N3-C4-N9	5.03	129.02	126.00
25	DA	375	G	N9-C4-C5	-5.03	103.39	105.40
25	DA	2610	C	C4-C5-C6	5.03	119.92	117.40
1	BA	846	G	C4-C5-N7	-5.03	108.79	110.80
25	CA	1482	G	N3-C4-C5	5.03	131.11	128.60
25	DA	1895	C	N1-C2-O2	-5.03	115.88	118.90
56	DB	89	U	N3-C2-O2	-5.03	118.68	122.20
1	BA	380	G	N1-C6-O6	5.03	122.92	119.90
25	CA	774	G	N3-C2-N2	5.03	123.42	119.90
26	CB	44	G	C6-C5-N7	-5.03	127.38	130.40
25	DA	1659	G	N3-C4-C5	5.03	131.11	128.60
25	DA	1897	G	C4-C5-N7	5.03	112.81	110.80
25	CA	775	G	C4-C5-C6	-5.02	115.79	118.80
25	CA	1631	G	C5-C6-O6	-5.02	125.58	128.60
25	CA	2377	A	C8-N9-C4	5.02	107.81	105.80
25	DA	1074	G	C4-C5-N7	-5.02	108.79	110.80
25	DA	2087	G	N3-C4-N9	-5.02	122.99	126.00
1	BA	1274	A	C8-N9-C4	-5.02	103.79	105.80
25	CA	238	C	N3-C2-O2	-5.02	118.38	121.90
25	CA	1168	G	N9-C4-C5	-5.02	103.39	105.40
25	CA	2067	G	N3-C4-N9	5.02	129.01	126.00
25	CA	2395	C	C5-C4-N4	-5.02	116.68	120.20
25	DA	329	G	C5-C6-O6	5.02	131.61	128.60
25	DA	579	G	N9-C4-C5	5.02	107.41	105.40
25	DA	787	C	N3-C2-O2	5.02	125.42	121.90
25	DA	1006	C	N1-C2-O2	-5.02	115.89	118.90
25	DA	1939	U	C4-C5-C6	-5.02	116.69	119.70
25	DA	1971	U	C5-C6-N1	5.02	125.21	122.70
1	AA	354	G	N1-C6-O6	5.02	122.91	119.90
25	CA	13	A	C6-C5-N7	-5.02	128.79	132.30
25	DA	1842	G	N1-C6-O6	5.02	122.91	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	382	A	C8-N9-C4	5.02	107.81	105.80
1	BA	813	U	N1-C2-O2	-5.02	119.29	122.80
25	CA	1721	G	C4-N9-C1'	5.02	133.03	126.50
25	CA	2790	U	C2-N1-C1'	5.02	123.72	117.70
25	DA	177	G	C8-N9-C1'	-5.02	120.47	127.00
25	DA	1954	G	N3-C4-C5	-5.02	126.09	128.60
1	BA	615	G	C2-N3-C4	5.02	114.41	111.90
25	CA	1086	A	N1-C6-N6	5.02	121.61	118.60
25	CA	1439	A	N7-C8-N9	-5.02	111.29	113.80
25	CA	1837	C	N3-C2-O2	5.02	125.41	121.90
25	CA	2139	U	C2-N1-C1'	5.02	123.72	117.70
25	CA	2807	U	N3-C2-O2	5.02	125.71	122.20
25	DA	2548	U	N3-C4-O4	5.02	122.91	119.40
1	BA	656	G	C2-N3-C4	5.02	114.41	111.90
25	CA	1554	U	C5-C4-O4	5.02	128.91	125.90
1	BA	108	G	N9-C4-C5	5.01	107.41	105.40
25	CA	781	A	N1-C6-N6	5.01	121.61	118.60
25	CA	980	A	N1-C6-N6	5.01	121.61	118.60
25	CA	2762	C	C2-N1-C1'	-5.01	113.28	118.80
1	BA	447	G	N3-C4-C5	-5.01	126.09	128.60
1	AA	830	G	C5-C6-O6	-5.01	125.59	128.60
25	CA	1216	G	N3-C4-N9	5.01	129.01	126.00
25	CA	1680	U	N1-C2-O2	5.01	126.31	122.80
1	AA	934	C	C6-N1-C2	-5.01	118.30	120.30
1	BA	109	A	C6-N1-C2	5.01	121.61	118.60
1	BA	538	G	N3-C4-C5	-5.01	126.09	128.60
25	CA	715	A	C8-N9-C4	5.01	107.80	105.80
25	CA	729	G	N1-C2-N2	5.01	120.71	116.20
26	CB	29	A	N1-C6-N6	5.01	121.61	118.60
26	CB	61	G	N7-C8-N9	-5.01	110.59	113.10
25	DA	561	G	C5-C6-O6	-5.01	125.59	128.60
25	DA	1954	G	N3-C4-N9	5.01	129.01	126.00
25	DA	2006	C	N3-C2-O2	5.01	125.41	121.90
25	DA	2768	U	N3-C2-O2	-5.01	118.69	122.20
1	BA	1484	C	N1-C2-O2	-5.01	115.89	118.90
26	CB	55	U	N1-C2-O2	-5.01	119.29	122.80
25	DA	1421	G	C4-N9-C1'	5.01	133.01	126.50
25	CA	1876	A	N9-C4-C5	5.01	107.80	105.80
25	CA	2447	G	C4-C5-N7	5.01	112.80	110.80
25	CA	2486	C	C2-N1-C1'	5.01	124.31	118.80
25	DA	15	G	N3-C4-C5	5.01	131.10	128.60
1	AA	397	A	C4-N9-C1'	5.00	135.31	126.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CA	835	C	N1-C2-O2	-5.00	115.90	118.90
25	CA	2564	A	C8-N9-C4	-5.00	103.80	105.80
25	DA	1980	G	C2-N3-C4	-5.00	109.40	111.90
25	DA	2015	A	C4-C5-N7	-5.00	108.20	110.70
1	AA	586	C	C2-N1-C1'	-5.00	113.30	118.80
1	AA	1358	U	C5-C4-O4	5.00	128.90	125.90
1	BA	1121	U	C5-C6-N1	5.00	125.20	122.70
25	CA	561	G	N9-C4-C5	-5.00	103.40	105.40
25	CA	675	A	N7-C8-N9	5.00	116.30	113.80
25	CA	941	A	C5-N7-C8	-5.00	101.40	103.90
25	CA	2088	A	N1-C6-N6	-5.00	115.60	118.60
25	CA	2575	C	N1-C2-N3	5.00	122.70	119.20
25	CA	2854	G	C5-C6-O6	5.00	131.60	128.60
25	DA	974	G	C8-N9-C1'	-5.00	120.50	127.00
25	DA	1136	G	N9-C4-C5	-5.00	103.40	105.40
25	DA	2462	C	N1-C2-O2	-5.00	115.90	118.90
25	CA	262	A	C8-N9-C4	5.00	107.80	105.80
25	CA	1913	A	C8-N9-C4	5.00	107.80	105.80
25	CA	2210	U	N3-C4-O4	5.00	122.90	119.40
25	CA	2750	A	N1-C6-N6	-5.00	115.60	118.60
26	CB	30	C	N1-C2-O2	5.00	121.90	118.90
25	DA	169	G	C4-N9-C1'	-5.00	120.00	126.50
25	DA	555	G	C5-C6-O6	-5.00	125.60	128.60
25	DA	1567	G	C4-C5-N7	5.00	112.80	110.80

There are no chirality outliers.

All (31) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	AD	47	LEU	Peptide
5	AE	100	GLU	Peptide
9	AI	5	TYR	Peptide
11	AK	125	LYS	Peptide
13	AM	111	PRO	Peptide
14	AN	25	GLU	Peptide
21	AU	38	GLU	Peptide
21	AU	7	GLU	Peptide
4	BD	25	ARG	Peptide
5	BE	101	GLY	Peptide
5	BE	103	GLY	Peptide
6	BF	54	LEU	Peptide
11	BK	124	LYS	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
11	BK	125	LYS	Peptide
12	BL	22	ALA	Peptide
12	BL	33	CYS	Peptide
20	BT	6	ALA	Peptide
21	BU	34	ARG	Peptide
27	CC	231	HIS	Peptide
28	CD	132	ALA	Peptide
28	CD	151	THR	Peptide
33	CI	37	PHE	Peptide
42	CR	8	GLY	Peptide
45	CU	52	ASN	Peptide
50	CZ	14	GLY	Peptide
27	DC	195	GLY	Peptide
28	DD	151	THR	Peptide
32	DH	4	ILE	Peptide
32	DH	63	ALA	Peptide
34	DJ	129	GLU	Peptide
39	DO	94	ARG	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	32995	0	16607	2052	0
1	BA	33015	0	16617	2194	0
2	AB	1705	0	1732	374	0
2	BB	1705	0	1732	298	0
3	AC	1625	0	1699	235	0
3	BC	1625	0	1699	237	0
4	AD	1643	0	1710	291	0
4	BD	1643	0	1710	228	0
5	AE	1106	0	1148	214	0
5	BE	1106	0	1148	211	0
6	AF	818	0	808	116	0
6	BF	818	0	808	156	0
7	AG	1182	0	1240	116	0
7	BG	1182	0	1240	166	0
8	AH	979	0	1034	161	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	BH	979	0	1034	119	0
9	AI	1022	0	1070	189	0
9	BI	1022	0	1070	186	0
10	AJ	787	0	828	178	0
10	BJ	787	0	828	142	0
11	AK	877	0	887	160	0
11	BK	877	0	887	136	0
12	AL	955	0	1019	94	0
12	BL	955	0	1019	118	0
13	AM	884	0	944	163	0
13	BM	884	0	944	144	0
14	AN	774	0	827	130	0
14	BN	774	0	827	131	0
15	AO	714	0	737	61	0
15	BO	714	0	737	87	0
16	AP	649	0	666	106	0
16	BP	649	0	666	87	0
17	AQ	649	0	691	118	0
17	BQ	649	0	691	103	0
18	AR	456	0	478	46	0
18	BR	456	0	478	57	0
19	AS	638	0	665	88	0
19	BS	638	0	665	96	0
20	AT	665	0	714	84	0
20	BT	665	0	714	129	0
21	AU	426	0	449	139	0
21	BU	426	0	449	119	0
22	AV	1623	0	821	88	0
22	BV	1623	0	821	47	0
23	AX	324	0	162	19	0
23	BX	346	0	173	24	0
24	AY	1419	0	1467	97	0
25	CA	62195	0	31271	2445	0
25	DA	62173	0	31270	3398	0
26	CB	2548	0	1292	98	0
27	CC	2083	0	2157	227	0
27	DC	2083	0	2157	213	0
28	CD	1565	0	1616	129	0
28	DD	1565	0	1616	114	0
29	CE	1552	0	1619	143	0
29	DE	1552	0	1619	163	0
30	CF	1411	0	1447	202	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	DF	1411	0	1447	197	0
31	CG	1323	0	1374	146	0
31	DG	1323	0	1374	177	0
32	CH	1110	0	1148	145	0
32	DH	1110	0	1148	210	0
33	CI	1032	0	1088	246	0
33	DI	1032	0	1088	180	0
34	CJ	1129	0	1162	57	0
34	DJ	1129	0	1162	96	0
35	CK	939	0	1012	75	0
35	DK	939	0	1012	79	0
36	CL	1045	0	1117	130	0
36	DL	1045	0	1117	168	0
37	CM	1074	0	1157	96	0
37	DM	1074	0	1157	127	0
38	CN	961	0	1000	94	0
38	DN	961	0	1000	124	0
39	CO	892	0	923	84	0
39	DO	892	0	923	141	0
40	CP	917	0	965	93	0
40	DP	917	0	965	107	0
41	CQ	947	0	1022	63	0
41	DQ	947	0	1022	83	0
42	CR	816	0	839	84	0
42	DR	816	0	839	99	0
43	CS	857	0	922	42	0
43	DS	857	0	922	82	0
44	CT	739	0	807	71	0
44	DT	739	0	807	114	0
45	CU	780	0	834	66	0
45	DU	780	0	834	111	0
46	CV	753	0	780	59	0
46	DV	753	0	780	71	0
47	CW	575	0	589	27	0
48	CX	625	0	655	41	0
48	DX	625	0	655	58	0
49	CY	509	0	543	88	0
49	DY	509	0	543	109	0
50	CZ	449	0	491	26	0
50	DZ	449	0	491	47	0
51	C0	444	0	461	35	0
51	D0	444	0	461	41	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	C1	410	0	440	37	0
52	D1	410	0	440	45	0
53	C2	377	0	418	26	0
53	D2	377	0	418	18	0
54	C3	504	0	574	40	0
54	D3	504	0	574	42	0
55	C4	302	0	340	23	0
55	D4	302	0	340	34	0
56	DB	2529	0	1281	163	0
57	DW	564	0	576	36	0
58	AA	72	0	0	0	0
58	BA	56	0	0	0	0
58	CA	194	0	0	0	0
58	CB	4	0	0	0	0
58	CQ	1	0	0	0	0
58	DA	166	0	0	0	0
58	DB	3	0	0	0	0
58	DL	1	0	0	0	0
58	DQ	1	0	0	0	0
59	C4	1	0	0	0	0
59	D4	1	0	0	0	0
60	AA	197	0	0	11	0
60	AN	4	0	0	0	0
60	AT	1	0	0	0	0
60	AU	1	0	0	0	0
60	BA	190	0	0	12	0
60	BL	1	0	0	0	0
60	BN	5	0	0	1	0
60	BT	1	0	0	0	0
60	BU	1	0	0	0	0
60	C2	1	0	0	0	0
60	C3	1	0	0	0	0
60	C4	2	0	0	0	0
60	CA	625	0	0	62	0
60	CB	13	0	0	0	0
60	CC	8	0	0	0	0
60	CD	2	0	0	0	0
60	CE	2	0	0	0	0
60	CF	1	0	0	0	0
60	CJ	1	0	0	0	0
60	CL	6	0	0	2	0
60	CN	4	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	CS	1	0	0	0	0
60	CV	1	0	0	0	0
60	D2	1	0	0	0	0
60	D3	2	0	0	0	0
60	D4	1	0	0	0	0
60	DA	622	0	0	70	0
60	DB	14	0	0	0	0
60	DC	4	0	0	0	0
60	DD	5	0	0	2	0
60	DE	2	0	0	0	0
60	DJ	1	0	0	0	0
60	DL	4	0	0	1	0
60	DN	1	0	0	0	0
60	DR	1	0	0	0	0
All	All	292354	0	195461	20868	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 43.

All (20868) 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)
32:DH:93:SER:OG	32:DH:121:VAL:HG12	1.46	1.15
1:BA:1053:G:H4'	1:BA:1054:C:H5'	1.29	1.11
32:DH:93:SER:OG	32:DH:121:VAL:CG1	2.03	1.06
25:DA:1153:C:OP2	60:DA:3363:HOH:O	1.78	1.01
12:BL:33:CYS:HA	12:BL:54:VAL:HA	1.44	0.99
1:BA:1362:A:H4'	1:BA:1362:A:OP1	1.61	0.98
25:CA:2127:G:H4'	25:CA:2128:G:OP1	1.63	0.98
33:DI:38:CYS:HA	33:DI:41:PHE:HB3	1.46	0.98
25:DA:1060:U:H4'	25:DA:1061:U:H5'	1.41	0.98
25:CA:416:U:C5	25:CA:417:C:C5	2.52	0.97
25:DA:731:C:OP2	60:DA:3697:HOH:O	1.81	0.97
1:BA:1053:G:C4'	1:BA:1054:C:H5'	1.94	0.96
25:CA:2127:G:H2'	25:CA:2128:G:C8	2.00	0.95
25:CA:761:A:OP1	60:CA:3700:HOH:O	1.84	0.95
25:CA:2553:G:H5''	25:CA:2554:U:OP2	1.65	0.95
4:BD:25:ARG:HG3	4:BD:26:ALA:N	1.80	0.95
42:CR:42:ALA:HA	42:CR:46:GLU:HB2	1.45	0.95
25:CA:1779:U:H5	25:CA:1784:A:N7	1.63	0.94
32:CH:31:VAL:HB	32:CH:32:PRO:HD2	1.45	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:783:A:OP2	60:CA:3314:HOH:O	1.84	0.94
25:CA:999:U:OP2	60:CA:3360:HOH:O	1.82	0.94
1:AA:1142:G:C2	1:AA:1143:G:H1'	2.03	0.94
25:DA:1314:C:OP1	60:DA:3770:HOH:O	1.84	0.94
1:BA:1234:C:HO2'	1:BA:1364:U:H6	0.99	0.94
21:AU:19:LYS:CE	21:AU:19:LYS:HA	1.98	0.94
33:CI:21:PRO:HB2	33:CI:22:PRO:HD3	1.49	0.94
2:AB:49:PHE:HA	2:AB:52:ALA:HB3	1.49	0.93
1:AA:1313:U:OP2	19:AS:5:LYS:HB3	1.68	0.93
1:AA:255:G:O6	1:AA:266:G:O6	1.85	0.93
25:CA:1131:G:OP1	34:CJ:82:GLY:HA2	1.68	0.93
17:AQ:14:ASP:C	17:AQ:16:MET:SD	2.46	0.93
25:DA:219:A:N7	60:DA:3223:HOH:O	2.01	0.93
1:BA:1273:C:H2'	1:BA:1274:A:O4'	1.69	0.93
1:BA:1275:A:C2'	1:BA:1276:G:H5'	1.98	0.92
37:CM:57:VAL:O	37:CM:60:GLN:HG3	1.65	0.92
1:AA:1124:G:H3'	1:AA:1145:A:N6	1.83	0.92
17:AQ:7:LEU:HD22	17:AQ:72:TRP:CZ3	2.04	0.92
1:BA:1062:U:H2'	1:BA:1063:C:C6	2.04	0.92
1:BA:1151:A:C2	1:BA:1152:A:C5	2.57	0.92
25:DA:1746:A:H2'	25:DA:1747:U:C6	2.04	0.92
42:DR:39:LEU:HA	42:DR:49:ILE:HG21	1.50	0.92
25:DA:161:A:H3'	25:DA:162:U:H5''	1.50	0.92
1:AA:598:U:H4'	8:AH:85:TYR:CD1	2.05	0.92
25:CA:933:A:H5'	25:CA:934:U:OP2	1.70	0.92
1:AA:1074:G:O2'	2:AB:101:THR:HG21	1.70	0.92
25:CA:2473:U:C5	25:CA:2474:U:C5	2.57	0.92
13:BM:53:ASP:HA	13:BM:56:ARG:HB3	1.50	0.92
25:DA:2335:A:N7	25:DA:2337:G:C5	2.38	0.91
29:DE:108:ILE:HD11	29:DE:180:LEU:HB3	1.49	0.91
25:CA:1179:G:C5	25:CA:1180:U:H1'	2.04	0.91
25:CA:981:A:OP1	60:CA:3598:HOH:O	1.85	0.91
32:DH:31:VAL:HB	32:DH:32:PRO:HD2	1.53	0.91
25:CA:2346:A:H3'	25:CA:2347:C:C5'	1.99	0.91
31:CG:8:VAL:CG1	31:CG:49:LEU:HB2	1.99	0.91
2:AB:82:ALA:HA	2:AB:85:SER:OG	1.68	0.91
1:BA:484:G:H4'	1:BA:485:U:O5'	1.68	0.91
4:AD:169:TRP:NE1	4:AD:185:PRO:HG3	1.86	0.91
25:DA:958:U:H2'	56:DB:89:U:C6	2.04	0.90
25:CA:1287:A:H5'	38:CN:103:ARG:HD2	1.50	0.90
2:BB:209:VAL:O	2:BB:213:LEU:HB2	1.72	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:59:ALA:O	32:DH:62:LEU:HD12	1.70	0.90
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.69	0.90
52:D1:12:SER:HB2	52:D1:48:TYR:CE1	2.06	0.90
25:CA:1085:A:H2'	25:CA:1086:A:C2	2.07	0.89
25:DA:1993:U:H4'	28:DD:133:THR:HG21	1.52	0.89
1:AA:1123:U:H4'	10:AJ:39:PRO:HD2	1.54	0.89
34:CJ:80:HIS:HB3	34:CJ:81:ILE:HG22	1.54	0.89
35:DK:76:VAL:HG12	40:DP:72:VAL:CG2	2.03	0.89
1:AA:1539:C:H5''	21:AU:17:ARG:HG3	1.55	0.89
25:DA:860:U:C1'	25:DA:2268:A:H5'	2.02	0.89
25:DA:1315:C:OP2	60:DA:3770:HOH:O	1.91	0.89
1:AA:1538:C:C2'	1:AA:1539:C:H5'	2.03	0.88
16:BP:72:ALA:HA	16:BP:75:ILE:HD12	1.55	0.88
25:DA:1494:A:C2	25:DA:1495:A:C4	2.62	0.88
1:BA:1522:U:O2'	1:BA:1523:G:H5'	1.74	0.88
3:BC:149:LYS:HG3	3:BC:200:TRP:CE3	2.09	0.88
32:DH:94:ILE:HB	32:DH:122:LEU:HB2	1.56	0.88
1:BA:1001:C:H2'	1:BA:1002:G:C8	2.08	0.88
1:BA:518:C:H2'	1:BA:530:G:C8	2.08	0.88
25:CA:999:U:P	60:CA:3360:HOH:O	2.29	0.88
25:DA:2286:G:H4'	25:DA:2287:A:O5'	1.72	0.88
2:AB:207:ARG:C	2:AB:211:LEU:HD13	1.94	0.88
17:BQ:13:SER:HB3	17:BQ:21:VAL:CG1	2.02	0.88
50:DZ:23:LEU:HD11	50:DZ:53:MET:HE1	1.56	0.88
42:CR:49:ILE:HG22	42:CR:53:PHE:N	1.87	0.88
5:BE:148:SER:HB2	5:BE:151:MET:CG	2.04	0.87
25:CA:404:A:H1'	25:CA:405:U:OP2	1.74	0.87
40:CP:92:ARG:O	40:CP:93:LYS:HB2	1.71	0.87
43:CS:43:ALA:O	43:CS:47:VAL:HG12	1.74	0.87
1:BA:131:A:H2'	1:BA:132:C:C6	2.10	0.87
25:DA:988:A:O5'	50:DZ:11:SER:HB2	1.73	0.87
1:BA:1277:C:O2'	1:BA:1279:G:H1'	1.74	0.87
25:DA:1590:A:H2'	25:DA:1591:A:C8	2.09	0.87
25:CA:790:U:O2'	25:CA:791:C:OP2	1.93	0.87
3:BC:129:PHE:CE2	3:BC:130:ARG:HD3	2.10	0.87
25:CA:1187:G:H5''	42:CR:83:TYR:CE2	2.10	0.87
34:DJ:31:GLU:HG3	34:DJ:142:ILE:HD11	1.56	0.87
11:AK:51:PHE:CB	11:AK:55:ARG:HB3	2.03	0.86
25:CA:721:A:H2'	25:CA:722:A:C8	2.09	0.86
11:AK:69:CYS:O	11:AK:72:ALA:HB3	1.73	0.86
6:AF:5:GLU:HG2	6:AF:90:MET:HE1	1.58	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:107:GLU:HA	33:CI:110:GLN:HB3	1.58	0.86
33:DI:16:MET:SD	33:DI:19:PRO:HB3	2.15	0.86
8:AH:74:ILE:CD1	8:AH:128:VAL:HG22	2.04	0.86
1:BA:1166:G:C6	1:BA:1168:U:H5''	2.10	0.86
25:CA:2711:A:P	60:CA:3551:HOH:O	2.33	0.86
25:DA:2491:U:H5''	25:DA:2570:G:H5''	1.57	0.86
4:AD:36:ALA:HA	4:AD:41:GLY:HA3	1.57	0.86
15:AO:27:GLN:O	15:AO:30:LEU:HD12	1.76	0.86
12:BL:24:GLU:O	12:BL:25:ALA:C	2.14	0.86
46:CV:2:PHE:HD1	46:CV:50:MET:HE3	1.39	0.86
36:DL:91:ASP:HB3	36:DL:94:THR:HB	1.56	0.86
38:DN:77:ALA:O	38:DN:79:LEU:O	1.93	0.86
16:BP:61:VAL:CG2	16:BP:67:ILE:HD11	2.06	0.86
25:CA:2498:C:OP2	60:CA:3692:HOH:O	1.94	0.86
32:DH:62:LEU:HD13	32:DH:63:ALA:N	1.88	0.86
25:CA:1730:C:OP1	25:CA:1730:C:H4'	1.75	0.85
2:AB:105:THR:O	2:AB:106:VAL:HB	1.75	0.85
1:BA:1062:U:H2'	1:BA:1063:C:C5	2.10	0.85
25:DA:265:A:H4'	25:DA:266:G:OP1	1.75	0.85
32:CH:117:LEU:HD21	32:CH:121:VAL:HA	1.58	0.85
25:DA:2223:G:H2'	25:DA:2224:G:H5'	1.56	0.85
34:CJ:81:ILE:HG12	34:CJ:82:GLY:N	1.91	0.85
25:DA:2352:A:H2'	25:DA:2353:G:O4'	1.77	0.85
1:AA:142:G:C4	1:AA:143:A:C8	2.63	0.85
1:BA:1221:G:H4'	19:BS:76:THR:CG2	2.06	0.85
25:CA:1854:A:H2'	25:CA:1855:U:H5'	1.57	0.85
25:CA:278:A:C2	25:CA:362:A:C8	2.63	0.85
25:DA:2783:U:H2'	25:DA:2784:U:C6	2.12	0.85
4:BD:190:LEU:O	4:BD:191:SER:HB3	1.74	0.85
1:AA:1181:G:O2'	1:AA:1182:G:C8	2.29	0.85
11:AK:16:SER:HA	11:AK:78:ILE:HA	1.58	0.85
1:BA:8:A:C6	4:BD:205:LYS:HB3	2.12	0.85
11:AK:80:ASN:HB3	11:AK:105:ARG:HB3	1.58	0.85
25:CA:1060:U:C4'	25:CA:1062:G:H5'	2.07	0.85
25:DA:2335:A:OP1	39:DO:13:ARG:HD2	1.77	0.85
1:BA:1275:A:H2'	1:BA:1276:G:H5'	1.58	0.84
25:CA:2786:U:O2'	25:CA:2787:C:H5'	1.76	0.84
25:DA:214:G:H1'	25:DA:217:A:H5'	1.59	0.84
25:DA:2407:A:C4	25:DA:2408:U:C5	2.65	0.84
1:BA:308:C:H2'	1:BA:309:A:H8	1.41	0.84
25:DA:2164:C:H2'	25:DA:2165:C:C6	2.11	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:19:THR:HA	13:AM:24:VAL:HG23	1.59	0.84
25:CA:1073:A:H3'	25:CA:1074:G:C5'	2.07	0.84
25:DA:1468:U:O2	25:DA:1525:A:C2	2.30	0.84
25:DA:947:A:O2'	25:DA:984:A:H2	1.61	0.84
1:AA:554:A:H5'	12:AL:25:ALA:HB1	1.58	0.84
25:CA:2307:G:N2	25:CA:2311:A:H2'	1.93	0.84
42:DR:68:ARG:HD3	42:DR:92:TRP:CE2	2.13	0.84
1:AA:554:A:H5'	12:AL:25:ALA:CB	2.07	0.84
4:AD:169:TRP:CE2	4:AD:185:PRO:HG3	2.11	0.84
1:AA:657:U:O2	15:AO:21:THR:HG23	1.78	0.84
25:DA:528:A:H8	25:DA:528:A:H3'	1.43	0.84
10:AJ:29:ALA:HA	10:AJ:32:THR:HG22	1.58	0.84
8:AH:52:GLY:HA3	8:AH:56:PRO:HA	1.57	0.84
37:DM:21:ALA:HB1	37:DM:100:LYS:HG2	1.57	0.84
43:DS:84:ARG:HB2	43:DS:96:ILE:CG1	2.08	0.84
21:AU:13:VAL:HG13	21:AU:15:LEU:CD2	2.08	0.84
52:C1:18:HIS:CD2	52:C1:40:PRO:HD2	2.13	0.84
42:CR:39:LEU:HA	42:CR:49:ILE:CG2	2.06	0.84
25:CA:2757:A:N1	31:CG:66:THR:HG21	1.92	0.84
32:CH:27:ARG:O	32:CH:28:ASN:HB2	1.76	0.84
36:DL:85:VAL:O	36:DL:86:GLU:HB3	1.78	0.84
25:CA:2602:A:H4'	25:CA:2603:G:OP2	1.78	0.83
32:CH:61:VAL:O	32:CH:64:ALA:HB3	1.77	0.83
25:DA:1435:G:C2'	25:DA:1436:G:H5'	2.08	0.83
1:AA:1031:C:H4'	1:AA:1032:G:H5''	1.58	0.83
25:DA:2711:A:OP2	60:DA:3554:HOH:O	1.96	0.83
3:AC:52:SER:O	3:AC:53:ARG:HB2	1.76	0.83
1:BA:1040:U:H2'	1:BA:1041:G:C8	2.12	0.83
25:DA:1458:U:H4'	25:DA:1459:G:O5'	1.78	0.83
39:DO:33:ARG:HG2	39:DO:34:HIS:CD2	2.12	0.83
25:CA:1167:C:H2'	25:CA:1168:G:H5''	1.60	0.83
25:DA:1605:C:H2'	25:DA:1606:C:H5'	1.58	0.83
1:AA:459:A:H2'	1:AA:460:A:C1'	2.08	0.83
25:DA:1069:A:N1	25:DA:1073:A:N7	2.26	0.83
25:CA:372:G:O2'	48:CX:53:LYS:HE2	1.78	0.83
25:DA:1602:U:O4	60:DA:3719:HOH:O	1.97	0.83
1:AA:459:A:H2'	1:AA:460:A:O4'	1.78	0.83
11:AK:22:ILE:HD11	11:AK:85:VAL:HG13	1.58	0.83
30:CF:24:VAL:O	30:CF:27:VAL:HG12	1.78	0.83
1:BA:1124:G:C2	1:BA:1127:G:N2	2.46	0.83
1:BA:765:G:H5''	1:BA:766:A:OP1	1.79	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DR:39:LEU:HA	42:DR:49:ILE:CG2	2.08	0.83
25:CA:2211:A:H1'	25:CA:2212:A:OP1	1.79	0.83
5:BE:68:ARG:O	5:BE:69:ASN:HB2	1.78	0.82
42:CR:49:ILE:HB	42:CR:52:PRO:HA	1.60	0.82
12:AL:23:LEU:O	12:AL:25:ALA:N	2.12	0.82
1:AA:624:C:H4'	16:AP:11:ALA:HB2	1.59	0.82
25:DA:1124:G:H1'	55:D4:38:GLY:OXT	1.80	0.82
3:AC:139:ASN:HA	3:AC:142:ARG:CB	2.10	0.82
28:DD:104:VAL:O	28:DD:105:LYS:CB	2.26	0.82
51:C0:54:ILE:HG22	51:C0:55:ALA:N	1.91	0.82
25:DA:1943:U:H4'	25:DA:1944:U:OP1	1.79	0.82
25:DA:2127:G:H4'	25:DA:2128:G:OP1	1.79	0.82
36:DL:119:PRO:HB3	36:DL:139:GLY:HA3	1.59	0.82
1:AA:410:G:C5'	1:AA:411:A:OP1	2.28	0.82
5:BE:14:LEU:CB	5:BE:36:THR:HG22	2.09	0.82
33:CI:79:LEU:HD13	33:CI:135:MET:SD	2.19	0.82
39:DO:51:ALA:HB3	39:DO:78:VAL:HG22	1.61	0.82
1:AA:1083:U:H5	1:AA:1084:G:C5	1.98	0.82
13:AM:21:ILE:HB	13:AM:24:VAL:CG2	2.08	0.82
21:AU:36:PHE:HA	21:AU:39:LYS:CE	2.10	0.82
5:BE:100:GLU:O	5:BE:102:THR:N	2.13	0.82
25:DA:319:G:C2'	25:DA:320:A:O5'	2.28	0.82
1:BA:86:G:H1'	1:BA:87:C:O4'	1.80	0.82
41:CQ:23:TYR:O	41:CQ:24:TYR:CB	2.28	0.82
25:DA:2792:A:C2	25:DA:2793:C:C5	2.66	0.82
1:BA:1261:A:C2	1:BA:1262:C:C5	2.68	0.82
25:DA:1013:C:OP2	60:DA:3608:HOH:O	1.98	0.82
25:DA:2879:A:H4'	25:DA:2880:C:OP1	1.77	0.82
1:AA:511:C:C2	1:AA:512:U:C5	2.68	0.81
1:BA:188:C:H2'	1:BA:188:C:O2	1.80	0.81
1:BA:783:C:H2'	1:BA:784:A:H5'	1.62	0.81
30:CF:118:ALA:HB1	30:CF:166:ARG:HD2	1.60	0.81
25:DA:1779:U:C5	25:DA:1784:A:N7	2.48	0.81
1:AA:1397:C:O2'	1:AA:1398:A:OP1	1.96	0.81
5:AE:136:VAL:O	5:AE:137:ARG:CB	2.27	0.81
1:BA:1108:G:H5''	3:BC:175:HIS:CD2	2.15	0.81
25:CA:1838:C:C2	25:CA:1898:U:C5	2.68	0.81
41:CQ:78:PHE:CZ	41:CQ:82:LEU:HD11	2.15	0.81
22:AV:52:G:C2	22:AV:53:G:C8	2.68	0.81
25:DA:2585:U:O2'	25:DA:2586:U:H5'	1.80	0.81
42:DR:49:ILE:HD12	42:DR:52:PRO:HA	1.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2551:C:OP1	60:CA:3434:HOH:O	1.97	0.81
25:CA:804:A:H5''	25:CA:805:G:OP1	1.80	0.81
55:D4:17:VAL:HB	55:D4:26:ILE:HD11	1.62	0.81
25:DA:1551:A:H2'	25:DA:1552:A:H5'	1.61	0.81
33:CI:75:ALA:HB1	33:CI:128:ILE:CG2	2.11	0.81
25:DA:528:A:C8	25:DA:528:A:H3'	2.16	0.81
1:AA:79:G:H1	1:AA:90:C:H42	1.28	0.81
1:BA:71:A:C2	1:BA:100:G:C8	2.67	0.81
3:BC:22:PHE:CD2	3:BC:23:ALA:N	2.49	0.81
28:CD:181:ASP:OD2	28:CD:184:ARG:HD3	1.80	0.81
25:CA:1462:C:H2'	25:CA:1463:C:H5'	1.63	0.81
25:DA:1539:U:O2	25:DA:1540:G:C8	2.34	0.81
25:DA:2326:C:H1'	25:DA:2327:A:OP1	1.80	0.81
25:DA:2666:C:C5	25:DA:2667:C:C5	2.68	0.81
25:CA:2007:U:C2'	25:CA:2008:C:H5'	2.10	0.81
33:DI:124:MET:HA	33:DI:127:SER:HB3	1.61	0.81
14:AN:41:ARG:HB2	14:AN:42:TRP:CZ3	2.16	0.81
1:BA:1053:G:N7	1:BA:1199:U:H3'	1.93	0.81
32:DH:9:VAL:HG22	32:DH:35:LYS:HE2	1.63	0.81
1:BA:965:U:O2'	1:BA:966:G:OP2	1.97	0.81
10:BJ:57:VAL:O	10:BJ:58:ASN:HB2	1.80	0.81
25:DA:2143:C:H2'	25:DA:2144:G:O4'	1.79	0.81
25:DA:319:G:H2'	25:DA:320:A:O5'	1.81	0.81
1:BA:1348:U:H4'	9:BI:121:ARG:HG3	1.63	0.81
25:DA:1333:G:C2	25:DA:1334:G:C8	2.69	0.81
25:DA:1866:A:C2	25:DA:1876:A:C5	2.68	0.81
11:BK:51:PHE:CZ	11:BK:61:ALA:HA	2.16	0.80
17:BQ:45:VAL:HG21	17:BQ:60:ILE:HD11	1.63	0.80
25:CA:1603:A:OP1	60:CA:3414:HOH:O	1.99	0.80
5:AE:89:THR:HG22	5:AE:90:GLY:N	1.96	0.80
1:BA:1239:A:H4'	1:BA:1240:U:OP1	1.81	0.80
5:BE:148:SER:HB2	5:BE:151:MET:HG3	1.62	0.80
25:CA:1993:U:H4'	28:CD:133:THR:HG21	1.63	0.80
25:CA:2346:A:H3'	25:CA:2347:C:H5'	1.64	0.80
25:DA:685:A:H4'	25:DA:686:U:O5'	1.79	0.80
1:AA:181:A:N6	1:AA:195:A:C8	2.49	0.80
5:BE:101:GLY:O	5:BE:103:GLY:N	2.14	0.80
25:CA:1269:A:OP2	60:CA:3382:HOH:O	1.99	0.80
37:CM:16:ARG:HG2	37:CM:16:ARG:HH11	1.46	0.80
1:AA:204:G:H3'	1:AA:205:A:C5'	2.10	0.80
11:BK:14:GLN:HA	11:BK:76:TYR:HA	1.63	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:164:VAL:HG22	27:CC:172:THR:O	1.81	0.80
2:AB:212:TYR:O	2:AB:216:VAL:HG23	1.80	0.80
8:AH:58:LEU:HD13	8:AH:59:GLU:N	1.97	0.80
1:BA:532:A:N6	1:BA:1206:G:O2'	2.15	0.80
5:BE:95:MET:CE	5:BE:114:LEU:HD21	2.11	0.80
31:DG:53:PRO:HG3	31:DG:61:TRP:CE2	2.15	0.80
1:AA:277:C:H2'	1:AA:278:G:O5'	1.82	0.80
32:CH:125:THR:HA	32:CH:146:VAL:HB	1.63	0.80
3:AC:26:LYS:H	3:AC:26:LYS:HD2	1.47	0.80
1:BA:1225:A:H2'	1:BA:1226:C:C5	2.17	0.80
1:BA:738:C:H2'	1:BA:739:C:H6	1.47	0.80
20:BT:35:TYR:CE1	20:BT:39:GLU:HB2	2.17	0.80
31:CG:37:ASN:O	31:CG:38:ASP:CB	2.30	0.80
25:DA:1401:G:C5	25:DA:1402:U:C5	2.70	0.80
25:DA:2340:A:H2'	25:DA:2341:G:C8	2.17	0.80
2:AB:162:VAL:HG11	2:AB:182:VAL:HG13	1.63	0.80
3:AC:76:ILE:HA	3:AC:83:VAL:HG23	1.64	0.80
13:AM:28:ARG:CZ	13:AM:62:PHE:HB2	2.12	0.80
27:DC:242:HIS:O	27:DC:244:VAL:HG13	1.82	0.80
32:DH:53:GLU:O	32:DH:57:LYS:HB3	1.82	0.80
25:DA:1131:G:OP1	34:DJ:82:GLY:HA2	1.82	0.80
1:AA:17:U:H2'	1:AA:18:C:C6	2.17	0.80
1:AA:513:C:C2'	1:AA:514:C:O5'	2.30	0.80
2:AB:146:SER:O	2:AB:147:LEU:HG	1.80	0.80
2:AB:98:GLY:O	2:AB:102:ASN:HB2	1.81	0.80
3:BC:71:ARG:HB3	3:BC:74:ILE:HG22	1.64	0.80
25:CA:2427:C:H5''	25:CA:2428:G:OP1	1.82	0.80
25:DA:1444:G:H2'	25:DA:1445:G:C8	2.17	0.80
25:DA:2262:U:O2'	25:DA:2263:C:H5'	1.82	0.80
1:BA:1181:G:O2'	1:BA:1182:G:C8	2.35	0.79
1:BA:1181:G:O2'	1:BA:1182:G:N7	2.15	0.79
42:DR:51:VAL:HB	42:DR:52:PRO:HD2	1.64	0.79
1:AA:481:G:H5''	1:AA:481:G:C8	2.17	0.79
1:AA:573:A:OP2	60:AA:1737:HOH:O	2.00	0.79
1:AA:587:G:H4'	8:AH:3:GLN:HA	1.65	0.79
2:AB:46:VAL:HB	2:AB:47:PRO:HD3	1.64	0.79
1:BA:154:U:C2	1:BA:168:G:N2	2.50	0.79
37:CM:16:ARG:CG	37:CM:16:ARG:HH11	1.95	0.79
25:DA:2022:U:OP1	60:DA:3668:HOH:O	2.00	0.79
31:DG:112:VAL:HG11	31:DG:150:TYR:CE2	2.17	0.79
32:DH:117:LEU:HD21	32:DH:121:VAL:HA	1.62	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:91:U:H2'	1:AA:92:U:O4'	1.82	0.79
10:AJ:10:LEU:HB2	10:AJ:72:ARG:HB2	1.63	0.79
4:BD:160:LEU:HD22	4:BD:161:ALA:N	1.97	0.79
1:BA:1540:U:O3'	21:BU:17:ARG:CZ	2.31	0.79
26:CB:57:A:H4'	30:CF:26:GLN:NE2	1.96	0.79
49:DY:26:PHE:CE2	49:DY:30:MET:HG2	2.17	0.79
1:AA:206:C:H2'	1:AA:207:C:O4'	1.80	0.79
2:AB:216:VAL:O	2:AB:219:THR:HG23	1.82	0.79
2:AB:50:ASN:O	2:AB:51:GLU:HB2	1.80	0.79
1:BA:869:G:O6	60:BA:1819:HOH:O	1.99	0.79
12:BL:33:CYS:HB3	12:BL:54:VAL:HG22	1.63	0.79
25:CA:1410:G:N7	60:CA:3628:HOH:O	2.14	0.79
25:DA:2783:U:H2'	25:DA:2784:U:H6	1.47	0.79
1:BA:841:C:H3'	1:BA:843:U:H5''	1.64	0.79
33:CI:15:GLY:HA2	33:CI:50:LYS:HB3	1.64	0.79
25:DA:984:A:H5''	25:DA:985:C:OP2	1.82	0.79
36:DL:81:ASP:HA	36:DL:84:LYS:HG3	1.63	0.79
8:AH:9:MET:HE1	8:AH:32:LYS:HA	1.65	0.79
22:AV:18:G:H2'	22:AV:58:A:C2	2.18	0.79
9:BI:49:GLN:HA	9:BI:52:GLU:CD	2.02	0.79
25:CA:2305:U:N3	30:CF:150:GLY:HA3	1.98	0.79
25:CA:2800:A:H3'	25:CA:2801:G:C5'	2.13	0.79
33:CI:96:LYS:HG3	33:CI:138:VAL:HG22	1.65	0.79
25:DA:1587:G:C5	25:DA:1588:G:N7	2.50	0.79
25:DA:1799:G:OP1	27:DC:257:ARG:HD2	1.81	0.79
1:AA:1425:U:O2'	1:AA:1426:G:H5'	1.81	0.79
1:AA:143:A:N3	1:AA:143:A:H2'	1.97	0.79
4:AD:169:TRP:HB3	4:AD:183:ARG:NH1	1.97	0.79
20:AT:24:ARG:O	20:AT:28:ARG:HG3	1.82	0.79
5:BE:103:GLY:HA3	5:BE:121:ASN:HA	1.63	0.79
25:CA:1179:G:N7	25:CA:1180:U:C1'	2.45	0.79
25:CA:960:A:H5''	25:CA:961:C:OP2	1.82	0.79
25:CA:323:C:H2'	29:CE:163:ASN:ND2	1.97	0.79
29:CE:189:THR:HG22	29:CE:192:ALA:H	1.46	0.79
25:DA:1084:A:H2'	25:DA:1085:A:C8	2.18	0.79
32:DH:59:ALA:O	32:DH:62:LEU:CD1	2.30	0.79
37:DM:108:VAL:HG12	37:DM:109:PRO:HD2	1.65	0.79
43:DS:20:VAL:HG21	43:DS:43:ALA:CB	2.13	0.79
1:AA:1538:C:H2'	1:AA:1539:C:H5'	1.63	0.79
2:AB:103:TRP:CZ3	2:AB:157:PRO:HD3	2.17	0.79
2:AB:65:LYS:N	2:AB:65:LYS:HD3	1.96	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:16:THR:HG22	4:AD:17:ASP:N	1.97	0.79
4:BD:79:ALA:HA	4:BD:85:THR:OG1	1.82	0.79
25:DA:1342:A:OP2	60:DA:3719:HOH:O	2.00	0.79
1:AA:1285:A:H4'	1:AA:1286:U:N3	1.97	0.79
1:AA:1330:U:H2'	1:AA:1331:G:H5'	1.62	0.79
2:AB:63:LYS:HE2	2:AB:63:LYS:HA	1.64	0.79
21:AU:35:GLU:O	21:AU:36:PHE:HB2	1.83	0.79
1:BA:463:U:H5'	1:BA:464:U:OP2	1.82	0.79
2:BB:98:GLY:HA2	2:BB:101:THR:HG23	1.63	0.79
56:DB:33:G:O2'	56:DB:34:A:O5'	2.00	0.79
32:DH:40:THR:O	32:DH:42:LYS:N	2.15	0.79
42:DR:68:ARG:HD3	42:DR:92:TRP:CZ2	2.18	0.79
1:AA:4:U:OP1	1:AA:5:U:O4	2.01	0.79
4:AD:31:CYS:O	4:AD:32:LYS:HB2	1.83	0.79
5:AE:102:THR:HG22	5:AE:103:GLY:N	1.97	0.79
1:BA:922:G:H4'	5:BE:24:VAL:HA	1.65	0.79
25:CA:2152:G:C5	25:CA:2153:C:C5	2.70	0.79
35:CK:118:LEU:O	35:CK:119:ALA:HB3	1.81	0.79
27:DC:65:ASP:OD2	27:DC:101:ARG:HD3	1.83	0.79
35:DK:118:LEU:O	35:DK:119:ALA:CB	2.31	0.79
2:AB:150:ILE:HG23	2:AB:151:LYS:H	1.47	0.78
25:CA:1179:G:N7	25:CA:1180:U:H1'	1.99	0.78
32:CH:116:ARG:HD2	32:CH:133:GLN:HG2	1.64	0.78
31:DG:29:ASN:HB3	31:DG:78:VAL:HA	1.65	0.78
1:AA:1159:U:O2	1:AA:1182:G:C2	2.35	0.78
10:AJ:51:VAL:O	10:AJ:62:ARG:HA	1.84	0.78
25:CA:1854:A:C2'	25:CA:1855:U:H5'	2.11	0.78
25:CA:752:A:N6	25:CA:2609:U:H3	1.80	0.78
25:DA:2162:G:H4'	25:DA:2163:A:OP1	1.83	0.78
25:DA:2793:C:H2'	25:DA:2794:C:C6	2.18	0.78
36:DL:79:LEU:H	36:DL:113:ALA:HB3	1.47	0.78
16:BP:18:GLN:HG3	16:BP:35:ARG:HD2	1.66	0.78
11:AK:51:PHE:HB3	11:AK:55:ARG:HB3	1.65	0.78
2:BB:98:GLY:O	2:BB:100:LEU:N	2.17	0.78
12:BL:109:ARG:NH2	12:BL:116:TYR:CE2	2.51	0.78
25:CA:1084:A:H3'	25:CA:1085:A:C8	2.18	0.78
25:CA:1203:U:O4	25:CA:1204:A:C6	2.36	0.78
40:CP:14:GLN:O	40:CP:15:ASP:HB3	1.82	0.78
25:DA:1720:U:H2'	25:DA:1721:G:O4'	1.82	0.78
25:DA:2135:A:C2	25:DA:2136:G:H1'	2.18	0.78
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.48	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:376:G:N3	1:AA:389:A:C2	2.52	0.78
4:AD:61:ARG:HG2	4:AD:71:PHE:CD2	2.18	0.78
1:BA:1302:C:C5	13:BM:16:ILE:HD13	2.18	0.78
2:BB:112:ARG:CZ	2:BB:116:LEU:HD11	2.13	0.78
25:CA:2498:C:P	60:CA:3692:HOH:O	2.40	0.78
42:CR:86:GLN:HG3	42:CR:87:GLN:N	1.97	0.78
25:DA:1277:G:H5'	38:DN:20:MET:CE	2.12	0.78
25:DA:761:A:OP1	60:DA:3697:HOH:O	2.00	0.78
31:DG:42:VAL:HG23	31:DG:50:THR:O	1.83	0.78
32:DH:31:VAL:O	32:DH:32:PRO:C	2.21	0.78
38:CN:49:GLU:OE2	38:CN:95:THR:HG22	1.83	0.78
25:DA:2531:A:H4'	31:DG:156:TYR:CE1	2.18	0.78
2:AB:34:ARG:NE	2:AB:34:ARG:HA	1.98	0.78
10:BJ:6:ILE:HD12	10:BJ:76:ILE:HB	1.66	0.78
25:CA:1779:U:C5	25:CA:1784:A:N7	2.51	0.78
25:CA:790:U:O2'	25:CA:791:C:P	2.42	0.78
25:DA:1070:A:H2'	25:DA:1097:U:OP1	1.84	0.78
5:AE:114:LEU:HG	5:AE:119:VAL:HG21	1.64	0.78
1:BA:738:C:H2'	1:BA:739:C:C6	2.19	0.78
9:BI:29:ILE:HA	9:BI:64:ILE:O	1.82	0.78
25:DA:2125:G:H5'	25:DA:2126:A:OP2	1.84	0.78
27:DC:140:VAL:HG12	27:DC:190:THR:O	1.84	0.78
24:AY:76:SER:HB3	24:AY:77:PRO:HD3	1.65	0.78
1:BA:501:C:H1'	1:BA:549:C:H1'	1.66	0.78
25:CA:1567:G:C8	27:CC:82:TYR:CE1	2.72	0.78
25:CA:219:A:N7	60:CA:3224:HOH:O	2.17	0.78
25:DA:1097:U:C5	25:DA:1098:A:H1'	2.19	0.78
33:DI:68:PHE:HD1	33:DI:68:PHE:N	1.82	0.78
2:AB:81:ASP:O	2:AB:84:LEU:N	2.17	0.78
9:AI:29:ILE:HD11	9:AI:37:TYR:CG	2.19	0.78
25:CA:1474:U:C4	25:CA:1475:G:N2	2.52	0.78
25:CA:587:C:OP2	36:CL:21:ARG:NH1	2.17	0.78
25:CA:946:C:OP2	60:CA:3348:HOH:O	2.01	0.78
25:DA:1866:A:N1	25:DA:1876:A:C8	2.52	0.78
8:BH:77:VAL:HG11	8:BH:124:ILE:HD11	1.65	0.77
25:CA:1417:C:H2'	25:CA:1418:G:O4'	1.84	0.77
25:CA:2790:U:H5'	25:CA:2893:A:N7	1.99	0.77
32:CH:82:SER:HB2	32:CH:94:ILE:HD11	1.66	0.77
41:DQ:35:PHE:CZ	41:DQ:39:ILE:HD11	2.20	0.77
1:AA:1271:A:H5'	1:AA:1314:C:H5'	1.66	0.77
1:AA:1493:A:H8	1:AA:1493:A:OP2	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:47:LEU:HB2	6:BF:55:HIS:HA	1.66	0.77
40:CP:92:ARG:O	40:CP:93:LYS:CB	2.30	0.77
25:DA:228:C:H4'	25:DA:229:C:H5''	1.65	0.77
25:DA:277:G:H1'	25:DA:361:G:O6	1.84	0.77
45:DU:11:ILE:HG21	45:DU:79:ALA:HB2	1.64	0.77
1:AA:1060:U:H4'	10:AJ:53:ILE:HG22	1.64	0.77
11:AK:30:ILE:HB	11:AK:45:THR:HG22	1.65	0.77
16:AP:75:ILE:O	16:AP:78:VAL:HG12	1.83	0.77
17:AQ:47:ASP:OD1	17:AQ:50:ASN:HA	1.84	0.77
1:BA:1006:G:H2'	1:BA:1007:U:C6	2.19	0.77
5:BE:152:VAL:HG23	5:BE:156:ARG:CB	2.13	0.77
11:BK:126:ARG:H	21:BU:33:ARG:NH2	1.81	0.77
42:CR:46:GLU:OE1	42:CR:46:GLU:O	2.01	0.77
25:DA:1450:G:C6	25:DA:1451:C:N4	2.52	0.77
25:DA:1588:G:C6	25:DA:1589:U:O4	2.37	0.77
25:DA:2822:G:O6	38:DN:2:ARG:HG2	1.84	0.77
25:DA:585:G:N7	41:DQ:5:ARG:NH1	2.32	0.77
27:DC:140:VAL:CG1	27:DC:190:THR:O	2.32	0.77
28:DD:172:VAL:CG2	28:DD:194:PRO:HD3	2.14	0.77
40:DP:45:VAL:O	40:DP:60:VAL:HA	1.83	0.77
48:DX:53:LYS:O	48:DX:56:ARG:HB2	1.84	0.77
4:AD:36:ALA:HA	4:AD:41:GLY:CA	2.13	0.77
25:CA:1869:G:H3'	25:CA:1870:C:H5'	1.65	0.77
25:CA:2142:A:H2'	25:CA:2143:C:C6	2.18	0.77
25:CA:2152:G:C6	25:CA:2153:C:C4	2.73	0.77
27:CC:42:ARG:HH11	27:CC:42:ARG:CG	1.97	0.77
1:AA:1412:C:C2	1:AA:1489:G:N2	2.53	0.77
2:AB:22:TRP:CZ3	2:AB:24:PRO:HA	2.19	0.77
1:BA:1073:U:O2	1:BA:1073:U:H2'	1.81	0.77
2:BB:162:VAL:HG23	2:BB:184:ALA:HB2	1.67	0.77
2:BB:89:PHE:HB3	2:BB:149:GLY:O	1.83	0.77
5:BE:136:VAL:O	5:BE:137:ARG:HB2	1.83	0.77
52:C1:16:THR:HG21	52:C1:41:VAL:HB	1.64	0.77
25:CA:1074:G:H2'	25:CA:1075:C:H5'	1.65	0.77
42:DR:49:ILE:CD1	42:DR:52:PRO:HA	2.15	0.77
3:AC:21:TRP:CB	3:AC:58:ARG:HG2	2.15	0.77
1:BA:1129:C:O2'	1:BA:1139:G:N7	2.18	0.77
1:BA:978:A:P	1:BA:1362:A:N6	2.58	0.77
53:C2:43:THR:O	53:C2:44:VAL:HB	1.83	0.77
25:CA:1604:C:OP1	60:CA:3408:HOH:O	2.03	0.77
25:CA:2007:U:H2'	25:CA:2008:C:H5'	1.65	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1179:G:C5	25:DA:1180:U:H1'	2.19	0.77
25:DA:1711:A:O2'	25:DA:1712:U:H5'	1.84	0.77
32:DH:72:ILE:HG22	32:DH:73:ASN:N	1.99	0.77
36:DL:30:THR:O	36:DL:33:ARG:HG2	1.83	0.77
1:AA:71:A:H3'	1:AA:71:A:OP2	1.85	0.77
8:AH:74:ILE:HD12	8:AH:127:TYR:O	1.85	0.77
2:BB:162:VAL:O	2:BB:184:ALA:HA	1.84	0.77
25:CA:2283:C:H5''	25:CA:2389:G:O2'	1.83	0.77
25:CA:359:G:C6	25:CA:360:U:C5	2.73	0.77
36:CL:110:VAL:O	36:CL:111:ILE:O	2.02	0.77
25:DA:2230:G:H2'	25:DA:2231:U:H6	1.50	0.77
30:DF:41:GLU:HB2	30:DF:48:LEU:CD2	2.15	0.77
13:AM:44:ILE:HG13	13:AM:47:LEU:HD13	1.67	0.77
16:AP:19:VAL:CG2	16:AP:36:VAL:O	2.33	0.77
1:BA:1244:G:C2	1:BA:1294:G:C2	2.73	0.77
27:CC:216:ARG:HB3	27:CC:217:PRO:CD	2.15	0.77
50:CZ:1:ALA:HB1	50:CZ:2:LYS:HE3	1.66	0.77
9:AI:56:MET:SD	9:AI:57:VAL:N	2.57	0.77
1:BA:332:G:H2'	1:BA:333:U:H5'	1.67	0.77
1:BA:934:C:C5	1:BA:1344:C:C6	2.73	0.77
3:BC:149:LYS:HB3	3:BC:168:ARG:HG2	1.66	0.77
3:BC:41:TYR:CZ	3:BC:45:GLU:HG2	2.19	0.77
25:CA:278:A:H2	25:CA:362:A:C8	2.02	0.77
37:CM:111:GLU:C	37:CM:111:GLU:CD	2.43	0.77
45:CU:6:ARG:O	45:CU:7:ASP:O	2.03	0.77
27:DC:16:VAL:N	27:DC:203:VAL:HG22	1.99	0.77
1:AA:1439:G:C5	1:AA:1440:U:C5	2.73	0.77
1:AA:1490:U:C2'	1:AA:1491:G:H5'	2.15	0.77
1:AA:205:A:OP1	1:AA:205:A:H4'	1.84	0.77
22:AV:59:U:C5	22:AV:60:U:C4	2.73	0.77
25:CA:1922:G:C5	25:CA:1923:U:C5	2.72	0.77
27:CC:234:GLY:O	27:CC:235:GLU:HB2	1.85	0.77
27:CC:35:LYS:O	27:CC:36:ASN:CB	2.31	0.77
10:AJ:80:THR:HB	10:AJ:83:THR:HB	1.66	0.76
17:AQ:15:LYS:N	17:AQ:16:MET:SD	2.58	0.76
1:BA:308:C:H2'	1:BA:309:A:C8	2.20	0.76
1:BA:385:C:C5	1:BA:386:C:C5	2.73	0.76
1:BA:982:U:H4'	1:BA:983:A:H5'	1.67	0.76
3:BC:17:TRP:CZ2	14:BN:95:GLY:HA2	2.20	0.76
12:BL:89:LEU:HB2	12:BL:92:VAL:HG21	1.66	0.76
25:DA:1084:A:C6	25:DA:1085:A:C6	2.73	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1492:A:N3	25:DA:1913:A:N6	2.33	0.76
21:AU:36:PHE:HA	21:AU:39:LYS:HE3	1.65	0.76
5:BE:154:ALA:HB3	5:BE:155:LYS:HE3	1.66	0.76
25:CA:2151:U:H2'	25:CA:2152:G:C8	2.20	0.76
25:CA:197:A:N6	25:CA:2430:A:H2'	2.00	0.76
25:DA:1906:G:H2'	25:DA:1907:G:H5''	1.67	0.76
25:DA:2112:G:N3	25:DA:2112:G:H2'	1.98	0.76
3:BC:171:ARG:O	3:BC:173:PRO:HD3	1.84	0.76
6:BF:39:LEU:HD12	6:BF:40:GLU:N	2.00	0.76
25:CA:1059:G:OP2	25:CA:1060:U:O2'	2.02	0.76
25:DA:722:A:H2'	25:DA:723:C:O4'	1.85	0.76
43:DS:59:GLU:HG3	43:DS:66:ILE:HD11	1.65	0.76
2:AB:215:ALA:O	2:AB:219:THR:HG22	1.86	0.76
16:AP:19:VAL:HG13	16:AP:38:PHE:HA	1.64	0.76
25:CA:1869:G:C3'	25:CA:1870:C:H5'	2.15	0.76
25:CA:195:A:N7	60:CA:3767:HOH:O	2.18	0.76
25:CA:2103:C:C2'	25:CA:2104:C:H5'	2.16	0.76
49:CY:56:LEU:O	49:CY:57:LEU:CB	2.32	0.76
25:DA:1045:C:C3'	25:DA:1046:A:H5'	2.16	0.76
25:DA:2346:A:H3'	25:DA:2347:C:H5'	1.66	0.76
28:DD:181:ASP:HB3	28:DD:186:LEU:HB2	1.67	0.76
2:AB:49:PHE:HA	2:AB:212:TYR:OH	1.85	0.76
3:AC:71:ARG:O	3:AC:74:ILE:HG22	1.86	0.76
1:BA:1333:A:H2'	1:BA:1334:G:O4'	1.86	0.76
3:BC:110:LEU:HD13	3:BC:145:ALA:HB2	1.68	0.76
25:CA:1494:A:C2'	25:CA:1495:A:O5'	2.34	0.76
25:DA:1063:G:O2'	33:DI:88:GLY:HA3	1.84	0.76
25:DA:1746:A:H2'	25:DA:1747:U:H6	1.47	0.76
38:DN:55:ALA:HA	38:DN:80:PHE:CE1	2.21	0.76
43:DS:73:LYS:HB2	43:DS:106:VAL:HB	1.67	0.76
1:AA:209:U:C5'	1:AA:210:C:OP2	2.34	0.76
3:AC:24:ASN:O	3:AC:26:LYS:HG2	1.86	0.76
5:AE:23:THR:HA	5:AE:28:ARG:HA	1.66	0.76
8:AH:100:ILE:HD11	8:AH:128:VAL:CG2	2.16	0.76
9:BI:56:MET:HB3	9:BI:60:LEU:HD23	1.67	0.76
25:CA:1528:A:H5''	25:CA:1529:G:OP2	1.85	0.76
32:CH:59:ALA:O	32:CH:62:LEU:HG	1.86	0.76
25:DA:1045:C:H1'	25:DA:1047:G:C6	2.20	0.76
25:DA:1777:U:O2'	25:DA:1778:U:H5'	1.86	0.76
29:DE:149:ILE:HG23	29:DE:188:MET:HG2	1.67	0.76
1:AA:1032:G:C2	1:AA:1033:G:H1'	2.20	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:374:A:H5''	1:BA:452:A:C2	2.20	0.76
25:CA:1736:U:H2'	25:CA:1737:G:O4'	1.85	0.76
25:CA:761:A:P	60:CA:3700:HOH:O	2.42	0.76
29:DE:148:ILE:HD13	29:DE:187:VAL:HG12	1.68	0.76
22:AV:21:A:N6	22:AV:46:G:C4	2.54	0.76
25:CA:1462:C:C2'	25:CA:1463:C:H5'	2.15	0.76
32:CH:79:THR:HA	32:CH:145:ASN:HB2	1.68	0.76
25:DA:1556:C:O2'	25:DA:1557:C:H5'	1.84	0.76
25:DA:1827:U:H5'	25:DA:1971:U:H5'	1.67	0.76
32:DH:116:ARG:HG3	32:DH:133:GLN:HG3	1.68	0.76
1:AA:1348:U:C5	1:AA:1373:G:N2	2.53	0.76
4:AD:190:LEU:O	4:AD:191:SER:HB2	1.86	0.76
16:AP:68:SER:HB2	16:AP:71:VAL:HB	1.67	0.76
1:BA:1538:C:H2'	1:BA:1539:C:C6	2.21	0.76
19:BS:14:LEU:HA	19:BS:17:LYS:HD2	1.66	0.76
1:BA:261:U:OP2	20:BT:70:LYS:HD2	1.86	0.76
25:CA:1046:A:H4'	25:CA:1046:A:OP2	1.86	0.76
25:CA:2277:G:H2'	25:CA:2278:A:O5'	1.85	0.76
25:CA:999:U:OP2	60:CA:3358:HOH:O	2.03	0.76
46:CV:80:HIS:CE1	46:CV:81:PRO:HD2	2.20	0.76
25:DA:1725:U:H2'	25:DA:1726:C:O4'	1.86	0.76
28:DD:140:HIS:CD2	60:DD:303:HOH:O	2.37	0.76
32:DH:2:GLN:O	32:DH:3:VAL:O	2.04	0.76
1:AA:1032:G:H5'	1:AA:1033:G:OP2	1.85	0.76
1:AA:620:C:H1'	4:AD:131:ILE:CD1	2.16	0.76
10:AJ:44:THR:HG22	10:AJ:70:HIS:HA	1.67	0.76
1:BA:381:C:H2'	1:BA:382:A:O4'	1.86	0.76
37:CM:15:GLY:O	37:CM:16:ARG:HD2	1.85	0.76
51:D0:54:ILE:HG22	51:D0:55:ALA:N	2.00	0.76
25:DA:1788:C:O2'	25:DA:1789:A:H5'	1.86	0.76
25:DA:2340:A:H2'	25:DA:2341:G:H8	1.50	0.76
10:AJ:27:GLU:HA	10:AJ:30:LYS:HE2	1.68	0.75
13:AM:21:ILE:HB	13:AM:24:VAL:HG21	1.66	0.75
15:AO:66:LEU:HD13	15:AO:87:ARG:NH2	2.01	0.75
1:BA:1412:C:H2'	1:BA:1413:A:C8	2.21	0.75
21:BU:9:GLU:CG	21:BU:10:PRO:HD3	2.15	0.75
25:CA:2681:C:OP2	28:CD:114:LYS:HE3	1.85	0.75
33:CI:124:MET:HA	33:CI:127:SER:HB3	1.68	0.75
1:AA:204:G:H2'	1:AA:205:A:O4'	1.87	0.75
9:AI:113:LYS:HG2	9:AI:119:LYS:HA	1.68	0.75
11:AK:91:GLY:O	11:AK:95:THR:HG22	1.86	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:595:A:C2	1:BA:641:U:N3	2.54	0.75
2:BB:67:LEU:HD22	2:BB:69:VAL:CG2	2.16	0.75
20:BT:42:ASP:CB	20:BT:45:ALA:HB3	2.16	0.75
25:CA:2071:A:H2'	25:CA:2072:C:C6	2.21	0.75
25:DA:1779:U:H5	25:DA:1784:A:N7	1.84	0.75
25:DA:860:U:H1'	25:DA:2268:A:H5'	1.68	0.75
32:DH:24:GLY:O	32:DH:28:ASN:HB2	1.87	0.75
34:DJ:5:THR:HG22	34:DJ:6:ALA:O	1.86	0.75
38:DN:85:PRO:HA	38:DN:88:ALA:HB2	1.68	0.75
42:DR:46:GLU:C	42:DR:46:GLU:CD	2.44	0.75
10:AJ:27:GLU:HA	10:AJ:30:LYS:CE	2.17	0.75
5:BE:136:VAL:O	5:BE:137:ARG:CB	2.34	0.75
25:CA:1509:A:O2'	25:CA:1510:G:OP2	2.03	0.75
45:CU:11:ILE:HG21	45:CU:79:ALA:HB2	1.68	0.75
25:DA:45:G:H5''	25:DA:46:G:H5'	1.67	0.75
21:AU:9:GLU:CD	21:AU:10:PRO:HD3	2.06	0.75
1:BA:1313:U:OP2	19:BS:5:LYS:HA	1.86	0.75
2:BB:116:LEU:HB3	2:BB:140:LEU:HD11	1.68	0.75
25:CA:547:A:N7	25:CA:548:G:H1'	2.01	0.75
37:CM:36:VAL:HG23	37:CM:129:THR:HG22	1.68	0.75
25:DA:1122:G:H2'	25:DA:1122:G:N3	2.02	0.75
56:DB:62:C:H2'	56:DB:63:C:H6	1.50	0.75
32:DH:57:LYS:HG3	32:DH:58:LEU:HD23	1.67	0.75
1:AA:131:A:H2'	1:AA:132:C:C6	2.20	0.75
21:AU:40:PRO:HA	21:AU:44:ARG:NH1	2.01	0.75
12:BL:106:VAL:HG21	12:BL:116:TYR:HB3	1.69	0.75
14:BN:64:CYS:HB2	14:BN:80:SER:OG	1.87	0.75
8:AH:1:SER:C	8:AH:3:GLN:N	2.39	0.75
2:BB:51:GLU:HG2	2:BB:197:PHE:CE1	2.21	0.75
2:BB:52:ALA:O	2:BB:56:LEU:HB2	1.85	0.75
25:CA:1053:C:N3	25:CA:1054:A:C8	2.54	0.75
25:CA:1585:C:H2'	25:CA:1586:A:O5'	1.87	0.75
25:CA:1585:C:O2'	25:CA:1586:A:H5'	1.85	0.75
25:CA:2800:A:H3'	25:CA:2801:G:H5'	1.69	0.75
27:CC:72:GLY:HA2	27:CC:116:GLN:NE2	2.01	0.75
30:CF:42:ALA:HB1	30:CF:45:ASP:O	1.86	0.75
40:CP:102:ARG:CG	40:CP:102:ARG:HH11	1.98	0.75
25:DA:346:A:C5	25:DA:347:A:C8	2.74	0.75
25:DA:419:U:H2'	25:DA:420:C:C6	2.22	0.75
27:DC:158:GLY:HA2	27:DC:194:VAL:O	1.86	0.75
31:DG:3:VAL:HG12	31:DG:68:ARG:HG2	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1539:C:OP1	21:AU:17:ARG:CZ	2.35	0.75
2:BB:80:LYS:HG2	2:BB:84:LEU:HD23	1.67	0.75
25:CA:1071:G:H1'	25:CA:1089:A:C8	2.21	0.75
25:DA:2585:U:O2'	25:DA:2586:U:C5'	2.35	0.75
1:AA:170:U:O2'	1:AA:171:A:H5'	1.86	0.75
1:AA:428:G:O4'	1:AA:430:A:C8	2.40	0.75
3:AC:96:VAL:HB	3:AC:97:PRO:CD	2.16	0.75
25:CA:1455:G:OP2	60:CA:3418:HOH:O	2.04	0.75
38:CN:2:ARG:O	38:CN:2:ARG:HD3	1.87	0.75
44:CT:2:ILE:N	44:CT:3:ARG:HB2	2.00	0.75
25:DA:120:U:OP2	25:DA:120:U:H3'	1.86	0.75
25:DA:1866:A:C2	25:DA:1876:A:C8	2.75	0.75
44:DT:30:ILE:HD11	44:DT:32:LEU:CD2	2.17	0.75
3:AC:41:TYR:CE2	3:AC:45:GLU:HG3	2.22	0.75
5:AE:81:GLN:N	5:AE:146:MET:CE	2.50	0.75
11:AK:41:LEU:HB3	11:AK:76:TYR:CE2	2.21	0.75
15:AO:72:LYS:HA	15:AO:72:LYS:HE2	1.66	0.75
19:AS:14:LEU:HD13	19:AS:32:THR:HG21	1.68	0.75
1:BA:1314:C:H2'	1:BA:1315:U:C6	2.22	0.75
25:CA:2553:G:C5'	25:CA:2554:U:OP2	2.33	0.75
24:AY:155:ARG:NH1	25:CA:2602:A:C2	2.55	0.75
42:CR:24:LYS:HA	42:CR:94:THR:HG23	1.68	0.75
25:DA:1105:U:O2	25:DA:1106:G:C8	2.40	0.75
25:DA:1372:U:O2'	25:DA:1373:A:H5'	1.86	0.75
56:DB:116:G:H4'	39:DO:54:VAL:O	1.86	0.75
1:AA:462:G:H3'	1:AA:463:U:H6	1.51	0.74
5:AE:44:ARG:HG2	5:AE:72:ASN:HB3	1.69	0.74
1:BA:1182:G:H4'	1:BA:1183:U:C5'	2.16	0.74
13:BM:84:CYS:HA	19:BS:72:GLU:O	1.87	0.74
25:CA:1530:G:O6	25:CA:1541:C:N3	2.20	0.74
25:CA:2075:U:H2'	25:CA:2077:A:OP2	1.87	0.74
38:CN:24:MET:HG2	38:CN:44:LEU:HD22	1.69	0.74
25:DA:1141:U:H4'	25:DA:1142:A:O4'	1.86	0.74
2:AB:60:ALA:HA	2:AB:64:GLY:CA	2.17	0.74
11:BK:70:ALA:O	11:BK:73:VAL:HG22	1.86	0.74
14:BN:15:LEU:HB3	14:BN:55:SER:HA	1.69	0.74
25:DA:1242:U:H2'	25:DA:1243:C:C6	2.22	0.74
25:DA:1786:A:H1'	25:DA:1938:A:N6	2.03	0.74
25:DA:2114:A:H5'	25:DA:2115:G:OP2	1.87	0.74
1:AA:109:A:H2'	1:AA:326:G:N2	2.01	0.74
1:BA:1326:U:H2'	1:BA:1327:C:C6	2.23	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1386:G:C2	1:BA:1387:G:C8	2.75	0.74
1:BA:203:G:N2	1:BA:215:C:C2	2.55	0.74
2:BB:67:LEU:HB3	2:BB:160:LEU:CD1	2.16	0.74
25:DA:96:C:H4'	49:DY:41:HIS:CE1	2.22	0.74
1:AA:447:G:N2	1:AA:486:U:C5	2.55	0.74
4:AD:190:LEU:O	4:AD:191:SER:CB	2.34	0.74
10:AJ:10:LEU:HD23	10:AJ:96:VAL:HG11	1.68	0.74
10:AJ:57:VAL:O	10:AJ:58:ASN:HB2	1.86	0.74
1:BA:100:G:N7	1:BA:101:A:N7	2.36	0.74
1:BA:686:U:C2	1:BA:687:A:N7	2.56	0.74
32:CH:112:LYS:HA	32:CH:115:VAL:HG23	1.69	0.74
34:CJ:30:THR:HG22	34:CJ:31:GLU:N	2.00	0.74
44:CT:88:LYS:O	44:CT:89:GLU:HG2	1.88	0.74
25:DA:1178:C:H2'	25:DA:1179:G:C8	2.22	0.74
25:DA:60:G:C8	25:DA:62:U:C6	2.74	0.74
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.23	0.74
17:AQ:59:GLU:HB3	17:AQ:75:VAL:HG23	1.68	0.74
1:BA:684:U:C2'	1:BA:685:G:H5'	2.17	0.74
3:BC:71:ARG:HB3	3:BC:74:ILE:CG2	2.17	0.74
4:BD:36:ALA:H	4:BD:37:PRO:HD3	1.52	0.74
37:CM:51:ARG:O	37:CM:55:ARG:HB2	1.85	0.74
25:DA:1385:A:H1'	25:DA:1386:C:C6	2.23	0.74
6:AF:18:VAL:HB	6:AF:19:PRO:CD	2.18	0.74
21:AU:19:LYS:NZ	21:AU:19:LYS:HA	2.01	0.74
25:DA:632:A:H2'	25:DA:633:A:C8	2.22	0.74
56:DB:116:G:H5'	39:DO:55:GLU:HG3	1.70	0.74
1:AA:711:G:O2'	1:AA:712:A:H5'	1.86	0.74
1:BA:1345:U:C4	1:BA:1377:A:C2	2.75	0.74
1:BA:66:A:H4'	1:BA:173:U:C5	2.22	0.74
15:BO:3:SER:HB2	15:BO:6:ALA:HB3	1.70	0.74
25:CA:1929:G:N3	25:CA:1929:G:C5'	2.51	0.74
25:DA:2323:G:H2'	25:DA:2324:U:O4'	1.86	0.74
35:DK:118:LEU:O	35:DK:119:ALA:HB3	1.88	0.74
40:DP:32:VAL:HG12	40:DP:32:VAL:O	1.87	0.74
1:AA:1108:G:H2'	1:AA:1108:G:N3	2.02	0.74
1:AA:1138:G:H5''	1:AA:1138:G:N3	2.03	0.74
8:AH:1:SER:O	8:AH:3:GLN:N	2.21	0.74
18:AR:42:ARG:HG2	18:AR:43:ILE:HD13	1.70	0.74
22:AV:65:G:N2	22:AV:66:U:C2	2.56	0.74
1:BA:783:C:C2'	1:BA:784:A:H5'	2.18	0.74
1:BA:859:G:H2'	1:BA:860:A:C8	2.22	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BU:25:ALA:HB3	23:BX:8:A:C5'	2.17	0.74
25:CA:1494:A:H2'	25:CA:1495:A:O5'	1.86	0.74
27:CC:110:LYS:HE2	27:CC:113:ASP:OD1	1.87	0.74
29:CE:18:THR:HG22	29:CE:19:PHE:CD2	2.23	0.74
25:DA:309:A:H5'	45:DU:16:LYS:HG2	1.69	0.74
1:AA:1502:A:N7	1:AA:1504:G:C2	2.56	0.74
1:AA:536:C:OP1	60:AA:1887:HOH:O	2.06	0.74
9:AI:10:ARG:HB2	9:AI:14:SER:O	1.88	0.74
3:BC:54:ILE:CD1	3:BC:56:ILE:HD13	2.18	0.74
9:BI:19:PHE:HB2	9:BI:63:TYR:HB3	1.68	0.74
14:BN:15:LEU:HD22	14:BN:55:SER:HB3	1.70	0.74
23:BX:13:A:O2'	23:BX:14:A:OP2	2.06	0.74
25:CA:1070:A:C2	25:CA:1097:U:H4'	2.22	0.74
25:CA:1179:G:OP2	25:CA:1180:U:H5''	1.88	0.74
25:CA:139:U:C4	44:CT:2:ILE:HD13	2.22	0.74
25:CA:78:U:OP2	49:CY:2:LYS:HD3	1.87	0.74
26:CB:33:G:O2'	26:CB:34:A:H5'	1.88	0.74
28:CD:151:THR:HG22	28:CD:152:PRO:HD2	1.70	0.74
25:DA:931:U:H4'	25:DA:932:U:OP2	1.88	0.74
56:DB:77:U:H2'	56:DB:78:A:H5'	1.68	0.74
1:AA:496:A:C2	1:AA:497:G:C5	2.76	0.74
1:AA:946:A:C2	1:AA:1236:A:C2	2.76	0.74
4:AD:16:THR:CG2	4:AD:17:ASP:N	2.50	0.74
5:AE:81:GLN:H	5:AE:146:MET:CE	2.01	0.74
19:AS:50:VAL:HG22	19:AS:70:LEU:CD1	2.18	0.74
1:BA:1298:U:O2	1:BA:1298:U:H2'	1.88	0.74
1:BA:673:A:H2'	1:BA:674:G:C8	2.23	0.74
1:BA:929:G:H2'	1:BA:930:C:O5'	1.88	0.74
4:BD:135:GLN:OE1	4:BD:135:GLN:HA	1.88	0.74
31:CG:23:ILE:O	31:CG:33:THR:HA	1.87	0.74
33:CI:20:SER:HA	33:CI:24:GLY:CA	2.18	0.74
34:CJ:17:VAL:HG12	34:CJ:17:VAL:O	1.86	0.74
42:CR:49:ILE:HB	42:CR:52:PRO:CA	2.17	0.74
25:DA:1385:A:N3	25:DA:1386:C:C5	2.55	0.74
25:DA:14:A:OP2	60:DA:3555:HOH:O	2.04	0.74
25:DA:2755:C:O2'	25:DA:2756:U:H2'	1.88	0.74
25:DA:929:U:H4'	50:DZ:37:ARG:NH2	2.03	0.74
30:DF:35:LEU:HD12	30:DF:153:ILE:HD12	1.69	0.74
33:DI:68:PHE:N	33:DI:68:PHE:CD1	2.55	0.74
49:DY:9:LYS:O	49:DY:12:GLU:HB2	1.88	0.74
10:AJ:65:TYR:HB3	14:AN:96:LEU:HD11	1.69	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:35:TYR:CD2	20:BT:36:ALA:N	2.56	0.73
32:CH:76:GLU:HG2	32:CH:76:GLU:O	1.86	0.73
25:DA:1269:A:OP2	60:DA:3386:HOH:O	2.06	0.73
25:DA:65:U:H2'	25:DA:66:C:H6	1.53	0.73
27:DC:14:HIS:O	27:DC:203:VAL:HG21	1.87	0.73
28:DD:129:THR:HG22	28:DD:130:GLN:O	1.87	0.73
30:DF:41:GLU:HB2	30:DF:48:LEU:HD23	1.70	0.73
32:DH:66:ASN:O	32:DH:69:ALA:HB3	1.88	0.73
9:AI:95:SER:HA	9:AI:98:ARG:HB2	1.69	0.73
11:AK:75:GLU:N	11:AK:75:GLU:CD	2.41	0.73
25:CA:1082:U:OP1	33:CI:123:ALA:HB1	1.87	0.73
27:CC:268:ARG:HG2	27:CC:268:ARG:HH11	1.53	0.73
33:CI:18:ASN:HB2	33:CI:37:PHE:HB3	1.70	0.73
25:DA:1063:G:H2'	25:DA:1064:C:O4'	1.87	0.73
25:DA:2131:U:H5'	25:DA:2132:U:H5''	1.70	0.73
28:DD:90:PHE:CE2	28:DD:96:ILE:HD11	2.23	0.73
39:DO:26:LEU:HD13	39:DO:39:VAL:CG2	2.18	0.73
1:BA:844:G:OP2	1:BA:844:G:C8	2.41	0.73
1:BA:716:A:N3	11:BK:118:ASN:O	2.20	0.73
25:CA:2055:C:N3	60:CA:3533:HOH:O	2.20	0.73
25:CA:2127:G:N1	25:CA:2161:C:C2	2.56	0.73
25:CA:662:G:C2'	25:CA:663:G:H5'	2.18	0.73
36:CL:27:LEU:HD23	36:CL:27:LEU:H	1.51	0.73
25:DA:1021:A:H5''	25:DA:1022:G:OP2	1.88	0.73
25:DA:1195:G:O2'	25:DA:1196:C:H5'	1.88	0.73
25:DA:2652:C:C2'	25:DA:2653:U:H5'	2.17	0.73
25:DA:512:G:N7	60:DA:3778:HOH:O	2.21	0.73
31:DG:154:GLU:HG2	31:DG:155:PRO:HD2	1.70	0.73
14:AN:31:SER:O	14:AN:32:ASP:HB2	1.88	0.73
21:AU:13:VAL:HG13	21:AU:15:LEU:HD21	1.69	0.73
25:CA:1073:A:OP1	25:CA:1073:A:C8	2.40	0.73
25:CA:416:U:C6	25:CA:417:C:C5	2.76	0.73
25:DA:2747:G:O2'	31:DG:66:THR:HG22	1.89	0.73
25:DA:2852:G:H2'	25:DA:2853:C:O4'	1.87	0.73
25:DA:51:G:H4'	25:DA:52:A:H5'	1.70	0.73
25:DA:616:A:H2'	25:DA:617:G:O5'	1.89	0.73
43:DS:84:ARG:HB2	43:DS:96:ILE:HG12	1.69	0.73
45:DU:27:VAL:HA	45:DU:33:VAL:HG12	1.70	0.73
1:AA:1502:A:C8	1:AA:1504:G:C4	2.76	0.73
21:AU:25:ALA:CB	23:AX:9:G:H5''	2.17	0.73
1:BA:674:G:H4'	18:BR:69:TYR:CD1	2.23	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2346:A:H3'	25:DA:2347:C:C5'	2.18	0.73
25:DA:692:C:C2'	25:DA:693:A:O5'	2.36	0.73
28:DD:121:THR:HB	28:DD:127:PHE:CD1	2.24	0.73
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.70	0.73
5:BE:44:ARG:HA	5:BE:71:ILE:O	1.88	0.73
25:CA:1062:G:OP1	25:CA:1070:A:H4'	1.89	0.73
25:CA:2275:C:O2	37:CM:84:LYS:HD3	1.88	0.73
28:CD:1:MET:SD	28:CD:100:LEU:HD11	2.29	0.73
29:CE:118:LEU:HD12	29:CE:119:ILE:N	2.03	0.73
25:CA:2469:A:H4'	37:CM:55:ARG:HH12	1.51	0.73
42:CR:25:LEU:H	42:CR:94:THR:CG2	2.01	0.73
44:CT:58:VAL:HG22	44:CT:85:VAL:HG22	1.71	0.73
25:DA:1025:G:H4'	25:DA:1026:G:OP2	1.89	0.73
25:DA:1385:A:N3	25:DA:1386:C:C6	2.57	0.73
25:DA:2760:C:O2'	25:DA:2761:A:H5'	1.88	0.73
42:DR:24:LYS:HA	42:DR:94:THR:OG1	1.88	0.73
10:AJ:5:ARG:HG2	10:AJ:79:PRO:HB3	1.69	0.73
12:AL:20:VAL:HG23	12:AL:94:TYR:CE1	2.23	0.73
24:AY:41:ILE:HD11	24:AY:83:ILE:HA	1.71	0.73
25:CA:1519:G:C5	25:CA:1520:U:C5	2.77	0.73
25:CA:2297:A:N1	25:CA:2321:U:C5	2.57	0.73
25:CA:2711:A:OP1	60:CA:3551:HOH:O	2.05	0.73
41:CQ:40:LYS:HA	41:CQ:43:GLN:HG3	1.70	0.73
25:DA:691:C:O2'	25:DA:692:C:H5'	1.89	0.73
1:AA:114:U:H2'	1:AA:115:G:C8	2.23	0.73
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.89	0.73
1:AA:1366:C:O2'	1:AA:1367:C:H5'	1.89	0.73
1:AA:913:A:H4'	1:AA:914:A:OP1	1.89	0.73
2:AB:45:THR:HG23	2:AB:200:PRO:HB2	1.69	0.73
2:AB:20:ARG:O	2:AB:22:TRP:N	2.21	0.73
5:AE:152:VAL:HG11	8:AH:98:LEU:HD13	1.68	0.73
1:BA:330:C:O2	1:BA:330:C:H2'	1.87	0.73
55:C4:18:LYS:HG3	55:C4:23:ILE:HD13	1.68	0.73
25:DA:1187:G:OP1	42:DR:85:LYS:HE3	1.89	0.73
30:DF:28:PRO:HB2	30:DF:168:LEU:HD22	1.68	0.73
3:AC:180:ASP:OD2	3:AC:203:LYS:HB2	1.89	0.73
1:BA:61:G:H2'	1:BA:62:U:O4'	1.88	0.73
5:BE:14:LEU:HA	5:BE:36:THR:HG22	1.70	0.73
25:DA:2272:U:H5''	25:DA:2273:A:OP1	1.87	0.73
27:DC:62:ARG:HG2	27:DC:62:ARG:HH21	1.54	0.73
49:DY:18:LEU:HD21	49:DY:22:LEU:HD22	1.70	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.24	0.73
9:AI:46:VAL:HG21	9:AI:75:ALA:HB1	1.71	0.73
11:AK:51:PHE:HZ	11:AK:64:VAL:HG11	1.54	0.73
1:BA:1000:A:C2	1:BA:1041:G:C2	2.76	0.73
25:CA:614:A:O2'	25:CA:615:U:OP2	2.07	0.73
27:CC:16:VAL:HB	27:CC:203:VAL:HG22	1.71	0.73
25:DA:1469:A:H2'	25:DA:1470:A:C8	2.23	0.73
25:DA:2579:C:C2'	25:DA:2580:U:H5'	2.19	0.73
50:DZ:4:ILE:HD11	50:DZ:56:VAL:HG21	1.71	0.73
1:AA:142:G:H3'	1:AA:143:A:H8	1.53	0.72
1:AA:208:U:C5	1:AA:210:C:C4	2.77	0.72
1:BA:1122:U:N3	1:BA:1123:U:C5	2.57	0.72
11:BK:24:ALA:HA	11:BK:29:THR:HG22	1.71	0.72
27:CC:226:PRO:HD3	27:CC:233:GLY:HA3	1.69	0.72
33:CI:33:ASN:HB2	33:CI:36:GLU:HG3	1.68	0.72
32:DH:7:ASP:HB2	32:DH:35:LYS:HE3	1.71	0.72
1:AA:1043:G:H2'	1:AA:1044:A:H5''	1.69	0.72
1:AA:239:U:H5''	1:AA:240:G:OP2	1.88	0.72
4:AD:176:LYS:N	4:AD:176:LYS:HD3	2.04	0.72
4:AD:57:LYS:HB3	4:AD:199:ILE:HB	1.70	0.72
2:BB:131:LYS:O	2:BB:135:MET:HB2	1.88	0.72
12:BL:115:LYS:O	12:BL:116:TYR:CD2	2.42	0.72
1:BA:1048:G:H5''	14:BN:2:LYS:HG3	1.70	0.72
52:C1:16:THR:HG22	52:C1:41:VAL:HG11	1.72	0.72
25:CA:1092:C:H2'	25:CA:1093:G:O4'	1.89	0.72
25:CA:2820:A:H4'	38:CN:3:HIS:CD2	2.25	0.72
36:CL:111:ILE:N	36:CL:111:ILE:HD12	2.03	0.72
25:DA:2172:U:H4'	25:DA:2173:A:H5'	1.71	0.72
25:DA:2407:A:N3	25:DA:2408:U:C6	2.56	0.72
25:DA:547:A:H3'	25:DA:548:G:H5'	1.70	0.72
56:DB:33:G:C2'	56:DB:34:A:O5'	2.36	0.72
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.20	0.72
1:BA:114:U:O2'	1:BA:115:G:H5'	1.89	0.72
1:BA:68:G:C5	1:BA:69:G:H1'	2.24	0.72
2:BB:209:VAL:O	2:BB:213:LEU:CB	2.36	0.72
7:BG:39:GLU:HB2	7:BG:43:TYR:CE2	2.24	0.72
1:BA:1048:G:H4'	14:BN:2:LYS:CE	2.19	0.72
21:BU:10:PRO:O	21:BU:11:PHE:CG	2.43	0.72
25:CA:2230:G:H5''	48:CX:29:LEU:HD12	1.70	0.72
25:CA:4:U:O2'	25:CA:5:A:H5'	1.90	0.72
25:DA:1881:C:H2'	25:DA:1882:U:O4'	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:84:LEU:HG	2:AB:85:SER:N	2.01	0.72
11:AK:22:ILE:HG12	11:AK:85:VAL:HG22	1.72	0.72
13:AM:71:GLU:O	13:AM:74:MET:HB3	1.90	0.72
1:BA:1151:A:C2	1:BA:1152:A:N7	2.56	0.72
2:BB:67:LEU:O	2:BB:160:LEU:HD12	1.88	0.72
12:BL:115:LYS:O	12:BL:116:TYR:CG	2.42	0.72
25:DA:1329:U:O2'	25:DA:1330:C:H5'	1.90	0.72
27:DC:229:HIS:O	27:DC:231:HIS:O	2.06	0.72
44:DT:14:PRO:HD2	49:DY:33:ALA:HB1	1.71	0.72
21:AU:25:ALA:HA	21:AU:28:LEU:HB3	1.71	0.72
1:BA:109:A:H2'	1:BA:326:G:N2	2.04	0.72
1:BA:463:U:H2'	1:BA:463:U:O2	1.88	0.72
25:CA:1073:A:H3'	25:CA:1074:G:H5''	1.69	0.72
25:CA:271:G:H4'	25:CA:272:A:OP1	1.89	0.72
25:CA:981:A:C5'	60:CA:3598:HOH:O	2.36	0.72
28:CD:98:VAL:O	28:CD:98:VAL:HG22	1.89	0.72
25:DA:480:A:H5''	45:DU:43:LYS:HD2	1.72	0.72
48:DX:32:LEU:O	48:DX:33:HIS:CG	2.42	0.72
1:AA:277:C:C2'	1:AA:278:G:O5'	2.38	0.72
1:AA:844:G:C5	1:AA:846:G:O2'	2.43	0.72
2:AB:65:LYS:HB2	2:AB:158:ASP:OD2	1.88	0.72
6:AF:53:LYS:O	6:AF:54:LEU:HB3	1.90	0.72
1:BA:980:C:OP2	60:BA:1862:HOH:O	2.06	0.72
6:BF:18:VAL:HB	6:BF:19:PRO:HD3	1.72	0.72
25:CA:1104:C:C2	25:CA:1105:U:C5	2.78	0.72
25:CA:479:A:N3	25:CA:481:G:H5''	2.04	0.72
31:CG:25:ILE:O	31:CG:78:VAL:HG11	1.89	0.72
46:CV:6:ALA:HB1	46:CV:40:ILE:HG23	1.70	0.72
25:DA:1195:G:C2'	25:DA:1196:C:H5'	2.19	0.72
25:DA:2498:C:P	60:DA:3689:HOH:O	2.47	0.72
39:DO:26:LEU:HD13	39:DO:39:VAL:HG22	1.71	0.72
1:AA:138:G:C2'	1:AA:139:A:H5'	2.18	0.72
1:AA:279:A:H4'	1:AA:280:C:O5'	1.90	0.72
1:AA:63:C:H2'	1:AA:64:G:H5'	1.72	0.72
1:BA:1361:G:N1	1:BA:1362:A:N7	2.37	0.72
1:BA:147:G:N2	1:BA:176:C:C2	2.58	0.72
17:BQ:15:LYS:C	17:BQ:16:MET:SD	2.68	0.72
25:CA:1309:G:OP1	53:C2:9:VAL:HG23	1.89	0.72
25:CA:1085:A:C6	25:CA:1086:A:N6	2.57	0.72
25:CA:1925:C:H4'	25:CA:1926:U:C5	2.25	0.72
25:CA:528:A:H2	25:CA:2043:C:C5'	2.03	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:106:PRO:HB3	27:DC:141:HIS:CE1	2.24	0.72
32:DH:69:ALA:HB2	32:DH:138:VAL:CG1	2.20	0.72
1:AA:1168:U:H2'	1:AA:1168:U:O2	1.88	0.72
1:AA:649:A:H2'	1:AA:650:G:O4'	1.90	0.72
2:AB:70:GLY:HA2	2:AB:163:ILE:HG22	1.72	0.72
12:AL:24:GLU:O	12:AL:25:ALA:C	2.28	0.72
12:AL:62:VAL:HG22	12:AL:63:THR:H	1.54	0.72
1:BA:1288:A:N1	1:BA:1371:G:H1'	2.04	0.72
3:BC:76:ILE:HA	3:BC:83:VAL:HG23	1.70	0.72
6:BF:4:TYR:O	6:BF:63:ASN:HA	1.89	0.72
13:BM:113:LYS:HB2	13:BM:114:PRO:HD3	1.70	0.72
25:CA:1179:G:H3'	25:CA:1180:U:H4'	1.69	0.72
25:CA:2648:G:H2'	25:CA:2649:C:C6	2.24	0.72
30:CF:48:LEU:HD12	30:CF:51:ASN:ND2	2.05	0.72
31:CG:172:GLU:HA	31:CG:172:GLU:OE1	1.88	0.72
33:CI:6:ALA:HB2	33:CI:60:VAL:HB	1.71	0.72
25:CA:2845:U:H5''	40:CP:51:ASN:O	1.89	0.72
48:CX:40:GLU:HG3	48:CX:41:SER:N	2.04	0.72
25:DA:118:A:C8	25:DA:119:A:C8	2.78	0.72
25:DA:1385:A:C4	25:DA:1386:C:C5	2.78	0.72
56:DB:44:G:N2	56:DB:48:U:C2	2.58	0.72
34:DJ:47:HIS:ND1	34:DJ:48:VAL:HG23	2.05	0.72
35:DK:20:MET:CE	35:DK:22:ILE:HG22	2.20	0.72
36:DL:109:LYS:HG2	36:DL:126:ARG:HB3	1.72	0.72
1:AA:613:C:O2'	1:AA:614:C:H5'	1.90	0.72
11:AK:22:ILE:HG13	11:AK:85:VAL:HA	1.72	0.72
1:BA:1361:G:C2	1:BA:1362:A:N7	2.58	0.72
5:BE:150:GLU:HG3	5:BE:151:MET:SD	2.29	0.72
9:BI:28:VAL:O	9:BI:64:ILE:HG13	1.89	0.72
25:CA:2748:A:H1'	31:CG:66:THR:HG22	1.69	0.72
54:D3:14:LYS:HD3	54:D3:22:LYS:HE2	1.72	0.72
25:DA:1091:G:N3	25:DA:1092:C:C5	2.58	0.72
25:DA:1562:U:C2	25:DA:1563:U:C6	2.77	0.72
25:DA:161:A:C3'	25:DA:162:U:H5''	2.18	0.72
30:DF:7:TYR:HA	30:DF:11:VAL:HB	1.72	0.72
40:DP:57:ALA:HB1	40:DP:73:PHE:O	1.90	0.72
43:DS:20:VAL:HG21	43:DS:43:ALA:HB3	1.71	0.72
1:AA:513:C:H2'	1:AA:514:C:H6	1.54	0.72
3:AC:21:TRP:HB3	3:AC:58:ARG:HG2	1.72	0.72
9:AI:62:LEU:N	9:AI:62:LEU:HD22	2.05	0.72
13:AM:76:ILE:CG2	13:AM:80:MET:HE1	2.19	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:28:ARG:HA	20:AT:31:ILE:HD12	1.72	0.72
1:BA:1491:G:H2'	1:BA:1492:A:C8	2.23	0.72
2:BB:181:PRO:HA	2:BB:196:ASP:OD1	1.90	0.72
6:BF:9:MET:HG3	6:BF:86:ARG:HB2	1.71	0.72
7:BG:26:VAL:HG12	7:BG:42:VAL:HG21	1.71	0.72
48:CX:65:THR:O	48:CX:68:ALA:HB3	1.89	0.72
25:DA:346:A:C4	25:DA:347:A:C8	2.77	0.72
25:DA:616:A:H2'	25:DA:617:G:C5'	2.20	0.72
56:DB:45:A:C2	56:DB:46:A:C4	2.78	0.72
32:DH:31:VAL:CB	32:DH:32:PRO:HD2	2.20	0.72
25:DA:1454:C:C6	38:DN:63:ARG:HG2	2.25	0.72
40:DP:20:ARG:HB3	40:DP:21:PRO:HD2	1.71	0.72
1:AA:1031:C:O2'	1:AA:1032:G:OP2	2.08	0.71
1:AA:1303:C:H2'	1:AA:1304:G:O5'	1.90	0.71
1:AA:590:U:O2'	1:AA:591:U:H5'	1.90	0.71
1:AA:997:U:H2'	1:AA:998:C:H5'	1.72	0.71
2:AB:163:ILE:HG23	2:AB:164:ASP:H	1.55	0.71
2:AB:56:LEU:HD22	2:AB:56:LEU:C	2.10	0.71
11:AK:15:VAL:HG12	11:AK:76:TYR:HB3	1.71	0.71
12:AL:24:GLU:O	12:AL:26:CYS:N	2.23	0.71
20:AT:27:MET:HG2	20:AT:31:ILE:HD11	1.71	0.71
21:AU:13:VAL:O	21:AU:15:LEU:HG	1.89	0.71
3:BC:76:ILE:HA	3:BC:83:VAL:CG2	2.20	0.71
5:BE:148:SER:O	5:BE:152:VAL:N	2.23	0.71
25:CA:1063:G:C2	33:CI:135:MET:HA	2.25	0.71
25:DA:2223:G:C2'	25:DA:2224:G:H5'	2.19	0.71
25:DA:348:A:H2'	25:DA:349:U:O4'	1.90	0.71
25:DA:804:A:H5''	25:DA:805:G:OP1	1.89	0.71
27:DC:251:THR:HG22	27:DC:252:LYS:N	2.04	0.71
29:DE:126:VAL:CG2	29:DE:133:LEU:HB3	2.20	0.71
32:DH:93:SER:HG	32:DH:121:VAL:HG12	1.51	0.71
1:AA:1216:A:C6	1:AA:1217:C:N4	2.58	0.71
1:AA:622:A:C8	1:AA:623:C:C6	2.78	0.71
1:AA:684:U:H1'	11:AK:39:ASN:O	1.90	0.71
1:AA:978:A:C5	1:AA:1319:A:C2	2.77	0.71
8:AH:110:MET:HE2	8:AH:115:ALA:N	2.04	0.71
10:BJ:48:ARG:HH11	10:BJ:48:ARG:CG	2.02	0.71
12:BL:64:SER:HB2	12:BL:81:ILE:HD11	1.71	0.71
18:BR:41:SER:HB3	18:BR:51:GLN:HE21	1.51	0.71
42:CR:25:LEU:H	42:CR:94:THR:HG21	1.55	0.71
25:DA:2199:A:C4	25:DA:2225:A:C2	2.78	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:60:G:N3	25:DA:74:A:C2	2.58	0.71
32:DH:50:ARG:HA	32:DH:50:ARG:CZ	2.20	0.71
32:DH:86:ASP:O	32:DH:87:GLU:HB2	1.89	0.71
36:DL:81:ASP:O	36:DL:82:LEU:HB3	1.90	0.71
1:AA:1216:A:C4	1:AA:1217:C:C5	2.78	0.71
4:AD:58:GLN:O	4:AD:62:ARG:HG2	1.90	0.71
1:BA:1534:A:C5'	1:BA:1535:C:OP1	2.38	0.71
1:BA:171:A:O2'	1:BA:172:A:H5'	1.90	0.71
1:BA:243:A:C2	1:BA:246:A:C8	2.78	0.71
2:BB:20:ARG:O	2:BB:22:TRP:N	2.22	0.71
13:BM:28:ARG:CZ	13:BM:62:PHE:HB2	2.21	0.71
20:BT:66:ILE:HD11	20:BT:70:LYS:HD3	1.72	0.71
25:CA:998:C:P	60:CA:3361:HOH:O	2.48	0.71
26:CB:33:G:C2'	26:CB:34:A:H5'	2.19	0.71
42:CR:49:ILE:CG2	42:CR:53:PHE:N	2.53	0.71
51:D0:24:VAL:O	51:D0:25:THR:OG1	2.08	0.71
25:DA:2701:U:H5''	25:DA:2702:G:H5''	1.71	0.71
25:DA:443:A:C8	29:DE:40:ARG:HD3	2.24	0.71
49:DY:56:LEU:O	49:DY:57:LEU:CB	2.38	0.71
1:AA:889:A:H4'	1:AA:890:G:OP1	1.91	0.71
2:AB:22:TRP:CH2	2:AB:24:PRO:HA	2.25	0.71
1:BA:1452:C:H4'	1:BA:1453:G:O5'	1.90	0.71
1:BA:978:A:OP2	1:BA:1362:A:N6	2.22	0.71
19:BS:10:ILE:HG13	19:BS:11:ASP:N	2.04	0.71
1:BA:1032:G:H1'	25:CA:2138:G:OP1	1.90	0.71
25:CA:893:C:H2'	25:CA:894:U:O4'	1.89	0.71
33:CI:105:LEU:HA	33:CI:108:ILE:HB	1.70	0.71
33:CI:96:LYS:HB3	33:CI:138:VAL:CG2	2.20	0.71
35:CK:118:LEU:O	35:CK:119:ALA:CB	2.38	0.71
25:CA:58:G:OP1	44:CT:78:SER:HB3	1.90	0.71
47:CW:37:ARG:HH11	47:CW:37:ARG:HG3	1.56	0.71
25:DA:729:G:H4'	25:DA:763:G:H5'	1.72	0.71
56:DB:89:U:H4'	56:DB:89:U:OP2	1.88	0.71
31:DG:8:VAL:HG23	31:DG:68:ARG:HD2	1.71	0.71
42:DR:49:ILE:CG1	42:DR:49:ILE:O	2.37	0.71
45:DU:98:ASN:O	45:DU:100:GLU:N	2.23	0.71
1:AA:245:U:H3	1:AA:283:U:H3	1.37	0.71
1:AA:380:G:N2	1:AA:384:G:C6	2.59	0.71
11:AK:41:LEU:HD22	11:AK:76:TYR:CE2	2.26	0.71
1:AA:950:U:H3'	13:AM:100:ARG:HH22	1.55	0.71
1:BA:1138:G:C2	1:BA:1140:C:C5	2.79	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1269:A:N7	1:BA:1270:G:H1'	2.06	0.71
12:BL:20:VAL:N	12:BL:21:PRO:CD	2.53	0.71
12:BL:28:GLN:HB2	12:BL:81:ILE:O	1.90	0.71
13:BM:28:ARG:NH1	13:BM:62:PHE:HB2	2.05	0.71
19:BS:62:THR:HB	19:BS:65:MET:HG3	1.72	0.71
25:CA:1846:G:N2	25:CA:1895:C:C2	2.58	0.71
25:CA:2886:A:C5	25:CA:2887:A:C8	2.78	0.71
25:CA:45:G:H4'	25:CA:46:G:H5'	1.72	0.71
43:CS:59:GLU:HA	43:CS:64:ALA:HA	1.70	0.71
25:DA:2286:G:OP1	52:D1:29:LYS:HE3	1.90	0.71
25:DA:88:G:O2'	25:DA:89:A:H5'	1.90	0.71
37:DM:27:SER:O	37:DM:28:PHE:CG	2.43	0.71
4:AD:167:PRO:HG2	4:AD:170:LEU:HD11	1.71	0.71
13:AM:14:ALA:O	13:AM:18:LEU:HD23	1.90	0.71
17:AQ:44:HIS:HB2	17:AQ:69:THR:O	1.91	0.71
24:AY:9:ASP:HB3	24:AY:13:ARG:NH2	2.05	0.71
1:BA:1535:C:O2'	1:BA:1536:C:OP2	2.08	0.71
25:CA:1161:C:H1'	42:CR:8:GLY:O	1.91	0.71
25:CA:1908:C:H5''	25:CA:1909:C:OP2	1.90	0.71
25:CA:2506:U:H2'	25:CA:2507:C:H5'	1.72	0.71
25:CA:997:G:OP1	41:CQ:91:ARG:HG2	1.91	0.71
27:CC:34:GLU:O	27:CC:35:LYS:O	2.08	0.71
31:CG:24:THR:O	31:CG:25:ILE:HD13	1.90	0.71
45:CU:15:GLY:O	45:CU:17:ASP:N	2.23	0.71
25:DA:1670:C:C5	25:DA:1671:U:C4	2.79	0.71
25:DA:535:G:O2'	25:DA:536:G:H5'	1.90	0.71
25:DA:826:U:O2'	36:DL:53:GLY:HA3	1.90	0.71
27:DC:73:ILE:N	27:DC:73:ILE:HD12	2.05	0.71
39:DO:34:HIS:HA	39:DO:53:THR:OG1	1.90	0.71
1:BA:827:U:C4	1:BA:870:U:C2	2.79	0.71
11:BK:126:ARG:N	21:BU:33:ARG:NH2	2.38	0.71
25:CA:2128:G:H2'	25:CA:2129:C:O4'	1.91	0.71
25:CA:321:U:OP2	29:CE:130:LYS:HD3	1.90	0.71
25:CA:675:A:OP1	29:CE:58:LYS:HE2	1.90	0.71
25:DA:1096:A:H2'	25:DA:1097:U:C4'	2.20	0.71
25:DA:2749:A:H5''	31:DG:1:SER:HB2	1.73	0.71
25:DA:2884:U:O2	25:DA:2884:U:O4'	1.99	0.71
38:DN:103:ARG:HB2	38:DN:110:MET:CE	2.20	0.71
45:DU:85:ARG:HG2	45:DU:94:PHE:CD2	2.25	0.71
50:DZ:40:THR:HG23	50:DZ:43:ILE:HG12	1.72	0.71
1:AA:1118:U:H5'	9:AI:105:ARG:HG3	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1330:U:C2'	1:AA:1331:G:H5'	2.20	0.71
1:AA:1476:A:H2'	1:AA:1477:U:O4'	1.91	0.71
1:AA:414:A:H2'	1:AA:415:A:C8	2.26	0.71
1:AA:950:U:C5	13:AM:100:ARG:NH1	2.58	0.71
25:CA:2172:U:H4'	25:CA:2173:A:H5'	1.70	0.71
28:CD:4:LEU:HD21	28:CD:100:LEU:HD23	1.73	0.71
39:CO:4:LYS:HG3	39:CO:5:SER:N	2.03	0.71
49:CY:46:VAL:O	49:CY:50:VAL:HG23	1.90	0.71
25:DA:977:G:N7	60:DA:3592:HOH:O	2.22	0.71
42:DR:49:ILE:CG1	42:DR:52:PRO:HA	2.21	0.71
45:DU:40:LEU:N	45:DU:40:LEU:HD23	2.06	0.71
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.72	0.71
1:AA:205:A:H2'	1:AA:205:A:N3	2.05	0.71
1:AA:409:U:OP1	4:AD:23:GLY:HA3	1.91	0.71
1:AA:659:U:O2	1:AA:660:C:C6	2.44	0.71
24:AY:145:LYS:H	24:AY:145:LYS:CE	2.04	0.71
1:BA:978:A:H4'	1:BA:1322:C:C5	2.26	0.71
9:BI:89:TYR:C	9:BI:93:LEU:HD11	2.09	0.71
25:CA:1086:A:O2'	25:CA:1087:G:N7	2.24	0.71
25:CA:2582:G:OP2	60:CA:3715:HOH:O	2.09	0.71
25:CA:31:C:O2'	25:CA:1238:G:H5'	1.91	0.71
46:CV:2:PHE:CD1	46:CV:50:MET:HE3	2.25	0.71
25:DA:317:G:C5	25:DA:318:C:C5	2.79	0.71
25:DA:346:A:C5	25:DA:347:A:N7	2.59	0.71
33:DI:44:LYS:HA	33:DI:47:SER:HB3	1.73	0.71
2:AB:110:ILE:HD11	2:AB:147:LEU:HD22	1.71	0.71
1:BA:757:U:O2'	1:BA:879:C:H1'	1.90	0.71
20:BT:61:ALA:HA	20:BT:67:HIS:H	1.56	0.71
25:CA:1372:U:H2'	25:CA:1373:A:O5'	1.91	0.71
25:CA:2305:U:O2'	30:CF:132:ARG:NE	2.24	0.71
25:CA:416:U:C5	25:CA:417:C:C4	2.79	0.71
25:CA:842:U:O4	60:CA:3590:HOH:O	2.08	0.71
27:CC:104:LEU:N	27:CC:104:LEU:CD1	2.53	0.71
25:DA:1096:A:H2'	25:DA:1097:U:C5'	2.21	0.71
25:DA:2467:C:N4	25:DA:2468:A:C6	2.59	0.71
32:DH:53:GLU:O	32:DH:57:LYS:CB	2.39	0.71
32:DH:76:GLU:HG2	32:DH:143:ILE:HD13	1.73	0.71
42:DR:49:ILE:HB	42:DR:53:PHE:N	2.06	0.71
25:DA:2011:U:OP1	43:DS:42:LYS:HE2	1.90	0.71
1:AA:1043:G:C2'	1:AA:1044:A:H5''	2.21	0.70
1:AA:542:G:C2	1:AA:543:U:C5	2.79	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:8:A:C5	4:AD:205:LYS:HB3	2.25	0.70
4:AD:61:ARG:CG	4:AD:71:PHE:CD2	2.74	0.70
5:AE:33:THR:HG22	5:AE:51:LYS:HB3	1.73	0.70
2:BB:22:TRP:O	2:BB:22:TRP:CG	2.43	0.70
21:BU:10:PRO:C	21:BU:11:PHE:CG	2.60	0.70
25:CA:1171:G:C2	25:CA:1172:C:C2	2.78	0.70
25:CA:2309:A:C6	25:CA:2310:C:N4	2.59	0.70
25:CA:544:C:H2'	25:CA:545:U:O4'	1.91	0.70
25:DA:1378:A:N3	25:DA:1380:G:C8	2.59	0.70
25:DA:2072:C:H5''	25:DA:2072:C:H6	1.54	0.70
25:DA:2793:C:H2'	25:DA:2794:C:H6	1.53	0.70
56:DB:43:C:H1'	30:DF:89:THR:CG2	2.21	0.70
37:DM:46:ILE:O	37:DM:103:TYR:OH	2.08	0.70
38:DN:24:MET:HE3	38:DN:44:LEU:HD13	1.72	0.70
1:AA:464:U:N3	1:AA:466:A:H5''	2.05	0.70
1:AA:872:A:C8	1:AA:874:G:C8	2.79	0.70
4:AD:122:ILE:N	4:AD:122:ILE:HD13	2.06	0.70
14:AN:19:TYR:O	14:AN:20:PHE:O	2.09	0.70
17:AQ:11:VAL:HG12	17:AQ:12:VAL:N	2.06	0.70
22:AV:55:U:O2'	22:AV:57:G:N7	2.21	0.70
1:BA:246:A:H4'	1:BA:247:G:OP1	1.91	0.70
1:BA:245:U:H3	1:BA:283:U:H3	1.36	0.70
25:CA:2210:U:H4'	25:CA:2211:A:H5'	1.72	0.70
25:DA:1084:A:N6	25:DA:1085:A:N6	2.39	0.70
25:DA:1096:A:N1	25:DA:1097:U:C5	2.59	0.70
25:DA:2110:G:C6	25:DA:2120:G:C8	2.79	0.70
25:DA:2209:G:N2	25:DA:2216:G:C2	2.58	0.70
25:DA:528:A:C2	25:DA:2043:C:H4'	2.26	0.70
36:DL:82:LEU:O	36:DL:85:VAL:HG22	1.90	0.70
39:DO:31:THR:HG23	39:DO:32:PRO:HD2	1.72	0.70
50:DZ:9:THR:HG22	50:DZ:53:MET:HA	1.71	0.70
1:AA:1179:A:H2'	1:AA:1180:A:O4'	1.91	0.70
1:AA:147:G:H2'	1:AA:148:G:C8	2.26	0.70
1:AA:763:G:H2'	1:AA:764:C:H6	1.56	0.70
16:AP:39:PHE:CD2	16:AP:74:LEU:HD11	2.27	0.70
19:AS:28:LYS:HB2	19:AS:29:PRO:HD2	1.73	0.70
21:AU:39:LYS:N	21:AU:40:PRO:CD	2.55	0.70
1:BA:158:G:H2'	1:BA:159:G:H5''	1.72	0.70
4:BD:56:GLU:OE2	4:BD:195:ASN:HB2	1.91	0.70
5:BE:113:VAL:HG22	5:BE:114:LEU:N	2.06	0.70
7:BG:11:ILE:HD12	7:BG:23:ALA:HB1	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1171:G:C5	25:CA:1172:C:C4	2.80	0.70
33:CI:132:ALA:O	33:CI:133:ARG:HB2	1.90	0.70
42:CR:26:ASP:O	42:CR:27:ILE:HD13	1.91	0.70
44:CT:71:GLY:O	44:CT:73:ARG:N	2.25	0.70
25:DA:2165:C:H2'	25:DA:2165:C:O2	1.90	0.70
25:DA:2278:A:OP1	37:DM:10:ARG:HD3	1.92	0.70
25:DA:227:A:C2	25:DA:2407:A:H1'	2.26	0.70
25:DA:1205:A:N1	29:DE:165:HIS:HB2	2.05	0.70
45:DU:11:ILE:CG2	45:DU:79:ALA:HB2	2.20	0.70
1:AA:499:A:H4'	1:AA:500:G:OP1	1.91	0.70
7:AG:94:ARG:NH2	7:AG:98:LEU:HD21	2.06	0.70
19:AS:39:ILE:HG12	19:AS:70:LEU:HD23	1.72	0.70
1:BA:1234:C:H1'	1:BA:1364:U:C6	2.27	0.70
1:BA:1261:A:C2	1:BA:1262:C:C4	2.79	0.70
1:BA:1377:A:N3	7:BG:1:PRO:HG3	2.05	0.70
12:BL:2:THR:HB	12:BL:5:GLN:HG2	1.74	0.70
25:CA:2075:U:O4	60:CA:3506:HOH:O	2.08	0.70
27:CC:129:LEU:N	27:CC:129:LEU:HD23	2.07	0.70
25:CA:1097:U:H1'	33:CI:8:VAL:HG12	1.71	0.70
38:DN:112:TYR:CD1	51:D0:54:ILE:HD11	2.27	0.70
51:D0:55:ALA:O	51:D0:56:LYS:HB2	1.92	0.70
25:DA:2091:C:H3'	25:DA:2092:U:H5''	1.73	0.70
25:DA:58:G:H2'	25:DA:59:U:H5'	1.73	0.70
29:DE:155:GLU:HG3	29:DE:159:LEU:CD1	2.21	0.70
35:DK:103:VAL:O	35:DK:122:VAL:HB	1.90	0.70
1:AA:1446:A:O2'	1:AA:1447:A:H5'	1.90	0.70
3:AC:96:VAL:HB	3:AC:97:PRO:HD2	1.72	0.70
4:AD:168:THR:HB	4:AD:183:ARG:HH22	1.55	0.70
12:AL:20:VAL:HG22	12:AL:20:VAL:O	1.92	0.70
7:BG:79:VAL:HG12	7:BG:80:GLY:N	2.06	0.70
11:BK:20:ALA:HA	11:BK:33:ILE:HD13	1.73	0.70
15:BO:7:THR:O	15:BO:11:VAL:HG23	1.92	0.70
25:CA:2406:A:H2'	25:CA:2406:A:OP2	1.92	0.70
25:CA:674:G:H1'	29:CE:69:ARG:HD3	1.72	0.70
33:CI:17:ALA:O	33:CI:18:ASN:CB	2.38	0.70
25:DA:55:G:O2'	25:DA:56:A:H5'	1.92	0.70
25:DA:693:A:C2'	25:DA:694:U:O5'	2.40	0.70
32:DH:62:LEU:HD13	32:DH:63:ALA:H	1.55	0.70
25:DA:1154:G:OP2	41:DQ:57:ARG:NH1	2.25	0.70
42:DR:39:LEU:O	42:DR:49:ILE:HG23	1.90	0.70
1:AA:439:U:C5	1:AA:440:C:C5	2.78	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:39:PHE:CD1	16:AP:39:PHE:C	2.64	0.70
2:BB:58:LYS:O	2:BB:62:ARG:N	2.24	0.70
5:BE:149:PRO:O	5:BE:152:VAL:HG22	1.91	0.70
25:CA:242:G:O5'	54:C3:2:LYS:HE2	1.90	0.70
25:CA:1897:G:C2	25:CA:1898:U:O2	2.44	0.70
25:CA:2152:G:C2'	25:CA:2153:C:H5'	2.20	0.70
29:CE:111:GLU:OE1	29:CE:111:GLU:HA	1.89	0.70
32:CH:53:GLU:O	32:CH:57:LYS:HB3	1.90	0.70
25:DA:1383:A:C2	25:DA:1384:A:C2	2.80	0.70
25:DA:186:G:O2'	25:DA:187:G:H5'	1.90	0.70
36:DL:28:GLY:O	36:DL:29:LYS:O	2.09	0.70
1:AA:673:A:H2'	1:AA:674:G:C8	2.27	0.70
7:AG:26:VAL:HG12	7:AG:42:VAL:HG21	1.74	0.70
9:AI:48:ARG:C	9:AI:48:ARG:HD3	2.11	0.70
10:AJ:9:ARG:HB2	10:AJ:99:GLN:HB2	1.74	0.70
21:AU:19:LYS:CA	21:AU:19:LYS:CE	2.69	0.70
1:BA:1061:G:H5''	10:BJ:61:ALA:HB2	1.72	0.70
14:BN:66:GLN:HG3	14:BN:79:LEU:HD21	1.72	0.70
55:C4:36:ARG:HG2	55:C4:37:GLN:H	1.56	0.70
25:CA:287:G:H2'	25:CA:288:U:C6	2.26	0.70
37:CM:31:PHE:CZ	37:CM:110:GLU:HA	2.27	0.70
38:CN:103:ARG:HD3	38:CN:110:MET:CE	2.22	0.70
49:CY:18:LEU:HD21	49:CY:22:LEU:HD22	1.74	0.70
25:DA:832:U:H2'	25:DA:833:A:C8	2.25	0.70
27:DC:144:GLU:HA	27:DC:151:GLY:HA2	1.72	0.70
27:DC:1:ALA:HA	27:DC:198:GLU:OE2	1.92	0.70
32:DH:5:LEU:C	32:DH:6:LEU:HD12	2.12	0.70
44:DT:69:ARG:HG3	44:DT:74:ILE:HG22	1.73	0.70
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.56	0.70
1:AA:923:A:O4'	1:AA:1398:A:C2	2.45	0.70
1:AA:142:G:C5	1:AA:143:A:N7	2.59	0.70
11:AK:124:LYS:CG	11:AK:125:LYS:N	2.53	0.70
20:AT:66:ILE:HG23	20:AT:66:ILE:O	1.91	0.70
1:BA:1106:G:H2'	1:BA:1107:C:H6	1.57	0.70
1:BA:1211:U:O2'	1:BA:1212:U:P	2.50	0.70
1:BA:983:A:H2'	1:BA:983:A:N3	2.05	0.70
25:CA:1026:G:H2'	25:CA:1027:A:C8	2.27	0.70
25:CA:1452:G:O2'	25:CA:1453:A:P	2.49	0.70
25:CA:2258:C:H4'	25:CA:2259:U:OP2	1.92	0.70
25:CA:1799:G:OP2	27:CC:269:ARG:NH2	2.25	0.70
37:CM:15:GLY:C	37:CM:16:ARG:HD3	2.10	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2334:U:C4	39:CO:16:ARG:HD3	2.26	0.70
40:CP:30:TRP:CE2	40:CP:39:LEU:HD11	2.27	0.70
46:CV:41:GLU:O	46:CV:41:GLU:HG3	1.92	0.70
25:DA:1063:G:H3'	25:DA:1064:C:C6	2.26	0.70
25:DA:1866:A:C2	25:DA:1876:A:N7	2.60	0.70
25:DA:2188:U:H2'	25:DA:2189:U:O4'	1.91	0.70
25:DA:547:A:H3'	25:DA:548:G:C5'	2.22	0.70
33:DI:71:LYS:O	33:DI:72:THR:HG23	1.92	0.70
36:DL:107:PHE:CD2	36:DL:107:PHE:N	2.59	0.70
36:DL:57:LEU:HD12	36:DL:60:ARG:HD2	1.73	0.70
4:AD:57:LYS:HB3	4:AD:199:ILE:CG2	2.21	0.70
1:AA:1279:G:N2	10:AJ:45:ARG:HE	1.89	0.70
10:AJ:65:TYR:CB	14:AN:96:LEU:HD11	2.22	0.70
16:AP:71:VAL:O	16:AP:75:ILE:HG13	1.92	0.70
19:AS:9:PHE:CD1	19:AS:10:ILE:N	2.60	0.70
21:AU:25:ALA:HB3	23:AX:9:G:C5'	2.22	0.70
1:BA:1284:C:C6	1:BA:1285:A:C8	2.80	0.70
6:BF:86:ARG:CG	6:BF:86:ARG:HH11	2.05	0.70
16:BP:61:VAL:HG22	16:BP:67:ILE:HD11	1.73	0.70
25:CA:2114:A:N3	25:CA:2114:A:H2'	2.06	0.70
34:CJ:81:ILE:CG1	34:CJ:82:GLY:N	2.48	0.70
45:DU:65:GLN:OE1	45:DU:65:GLN:HA	1.91	0.70
1:AA:435:A:C6	1:AA:436:C:C4	2.80	0.70
1:AA:657:U:O2	15:AO:21:THR:CG2	2.39	0.70
16:AP:75:ILE:HG22	16:AP:80:LYS:HE2	1.73	0.70
1:BA:279:A:H5''	1:BA:281:G:O4'	1.92	0.70
2:BB:63:LYS:C	2:BB:63:LYS:HD3	2.13	0.70
5:BE:153:ALA:HA	5:BE:157:GLY:N	2.06	0.70
9:BI:17:ARG:O	9:BI:64:ILE:HA	1.91	0.70
12:BL:76:HIS:O	12:BL:77:SER:HB2	1.92	0.70
1:BA:1221:G:H4'	19:BS:76:THR:HG21	1.74	0.70
25:CA:1056:G:H4'	25:CA:1086:A:C8	2.26	0.70
25:CA:2404:U:H2'	25:CA:2405:G:O5'	1.92	0.70
29:CE:12:LEU:HD23	29:CE:13:THR:N	2.07	0.70
25:DA:459:U:H5''	53:D2:40:ALA:HB2	1.74	0.70
25:DA:1060:U:C4'	25:DA:1061:U:H5'	2.21	0.70
25:DA:1379:U:C6	25:DA:1379:U:OP1	2.45	0.70
25:DA:1435:G:O2'	25:DA:1436:G:H5'	1.91	0.70
25:DA:2326:C:C1'	25:DA:2327:A:OP1	2.40	0.70
25:DA:512:G:C8	60:DA:3778:HOH:O	2.44	0.70
28:DD:104:VAL:O	28:DD:105:LYS:HB3	1.90	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:792:A:H4'	1:AA:793:U:O5'	1.92	0.69
2:AB:136:ARG:O	2:AB:139:GLU:HB3	1.92	0.69
2:AB:81:ASP:O	2:AB:83:ALA:N	2.23	0.69
1:BA:560:A:N7	1:BA:566:G:C4	2.60	0.69
3:BC:21:TRP:CD1	3:BC:56:ILE:HG22	2.27	0.69
6:BF:19:PRO:HA	6:BF:22:ILE:CD1	2.22	0.69
25:CA:1178:C:H2'	25:CA:1179:G:N7	2.06	0.69
33:CI:100:ILE:O	33:CI:140:GLU:HB2	1.91	0.69
38:CN:75:ILE:O	38:CN:79:LEU:HD12	1.91	0.69
29:DE:126:VAL:HG22	29:DE:133:LEU:HD13	1.73	0.69
25:DA:910:A:C5	37:DM:13:HIS:CD2	2.80	0.69
3:AC:166:TRP:N	3:AC:166:TRP:CE3	2.60	0.69
5:AE:135:VAL:O	5:AE:138:ALA:HB3	1.92	0.69
24:AY:33:ALA:HB1	24:AY:66:LEU:HD21	1.74	0.69
1:BA:1072:G:C5	1:BA:1073:U:C5	2.79	0.69
1:BA:471:U:H2'	1:BA:472:U:O4'	1.91	0.69
1:BA:852:G:C5	1:BA:853:C:C5	2.81	0.69
3:BC:174:LEU:HD12	3:BC:174:LEU:O	1.92	0.69
6:BF:5:GLU:C	6:BF:6:ILE:HD12	2.12	0.69
14:BN:22:LYS:HG3	14:BN:23:ARG:HG3	1.74	0.69
25:CA:2120:G:O2'	25:CA:2121:G:H5'	1.91	0.69
25:CA:2852:G:H2'	25:CA:2853:C:H6	1.57	0.69
25:CA:528:A:C2	25:CA:2043:C:H4'	2.28	0.69
25:CA:811:U:C4	36:CL:21:ARG:NH2	2.60	0.69
29:CE:28:VAL:O	29:CE:32:VAL:HG22	1.92	0.69
30:CF:123:GLY:HA2	30:CF:162:ASP:OD1	1.92	0.69
25:DA:1416:G:O2'	25:DA:1417:C:OP2	2.05	0.69
25:DA:2209:G:C2	25:DA:2216:G:C2	2.79	0.69
25:DA:2492:U:C2'	25:DA:2493:U:H5'	2.22	0.69
25:DA:2637:U:H2'	25:DA:2638:G:H5'	1.74	0.69
25:DA:2711:A:OP2	60:DA:3551:HOH:O	2.09	0.69
25:DA:2893:A:C4'	25:DA:2894:G:H5'	2.22	0.69
29:DE:76:PRO:HA	29:DE:82:GLY:HA3	1.75	0.69
30:DF:39:VAL:HG11	30:DF:42:ALA:HB2	1.74	0.69
1:AA:10:A:O2'	1:AA:11:G:H5'	1.92	0.69
1:AA:513:C:H2'	1:AA:514:C:C6	2.27	0.69
2:AB:195:VAL:HG11	2:AB:198:VAL:HA	1.73	0.69
2:AB:95:TRP:CZ2	2:AB:99:MET:HG2	2.27	0.69
5:AE:140:ILE:HG22	5:AE:141:ASP:N	2.05	0.69
13:AM:40:GLU:HG3	13:AM:41:ASP:N	2.08	0.69
21:AU:13:VAL:CG1	21:AU:15:LEU:HD21	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:114:U:C2'	1:BA:115:G:H5'	2.22	0.69
4:BD:25:ARG:HG3	4:BD:26:ALA:CA	2.22	0.69
32:CH:72:ILE:HG22	32:CH:73:ASN:N	2.06	0.69
33:DI:98:GLY:HA3	33:DI:137:LEU:HD23	1.74	0.69
1:AA:1303:C:OP1	60:AA:1796:HOH:O	2.09	0.69
21:AU:38:GLU:CA	21:AU:40:PRO:HD2	2.23	0.69
1:BA:1222:G:O6	60:BA:1862:HOH:O	2.09	0.69
1:BA:200:G:H2'	1:BA:201:G:H5'	1.73	0.69
3:BC:88:LYS:HD3	3:BC:89:VAL:HG13	1.74	0.69
5:BE:155:LYS:HA	5:BE:158:LYS:NZ	2.07	0.69
7:BG:78:ARG:HG2	7:BG:83:THR:HA	1.74	0.69
1:BA:254:G:OP1	17:BQ:68:LYS:O	2.10	0.69
21:BU:8:ASN:N	21:BU:11:PHE:HE2	1.90	0.69
25:CA:1784:A:P	60:CA:3703:HOH:O	2.50	0.69
25:CA:1929:G:N3	25:CA:1929:G:H5'	2.07	0.69
25:CA:2131:U:H5'	25:CA:2132:U:H5''	1.74	0.69
27:CC:35:LYS:O	27:CC:36:ASN:HB3	1.89	0.69
29:CE:104:ALA:O	29:CE:108:ILE:HG22	1.91	0.69
29:CE:189:THR:HG22	29:CE:192:ALA:N	2.07	0.69
25:DA:1587:G:C4	25:DA:1588:G:C8	2.81	0.69
56:DB:10:G:C8	56:DB:11:C:C5	2.81	0.69
56:DB:48:U:H4'	39:DO:100:HIS:CD2	2.28	0.69
39:DO:37:ALA:HB2	39:DO:106:LEU:HD11	1.73	0.69
49:DY:11:VAL:HA	49:DY:14:LEU:HB2	1.73	0.69
8:AH:46:GLU:CB	8:AH:63:LYS:HG2	2.22	0.69
18:AR:60:ARG:O	18:AR:63:TYR:HB3	1.93	0.69
7:BG:64:ALA:HB1	7:BG:126:ALA:CB	2.23	0.69
12:BL:24:GLU:CB	12:BL:26:CYS:SG	2.80	0.69
25:CA:1073:A:N7	25:CA:1074:G:H8	1.90	0.69
25:CA:2547:A:H4'	35:CK:29:HIS:CE1	2.28	0.69
32:CH:13:GLY:O	32:CH:14:SER:HB3	1.92	0.69
25:DA:1776:G:N7	60:DA:3452:HOH:O	2.23	0.69
25:DA:1784:A:H4'	25:DA:1785:A:O5'	1.93	0.69
25:DA:194:G:N7	60:DA:3767:HOH:O	2.24	0.69
25:DA:2305:U:H2'	25:DA:2306:C:C6	2.27	0.69
25:DA:2511:U:O4	25:DA:2575:C:N3	2.24	0.69
27:DC:123:ILE:HD11	27:DC:135:PRO:HD3	1.74	0.69
33:DI:49:GLU:OE1	33:DI:52:LEU:HD13	1.91	0.69
33:DI:31:GLY:HA3	33:DI:60:VAL:HG11	1.73	0.69
56:DB:49:C:OP1	39:DO:101:GLY:HA3	1.92	0.69
1:AA:1126:U:O4'	1:AA:1281:C:O2	2.11	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:768:A:C2'	1:AA:769:G:H5'	2.22	0.69
3:AC:10:ARG:HE	3:AC:177:LEU:HA	1.58	0.69
14:AN:61:ARG:O	14:AN:62:ASN:HB2	1.91	0.69
21:AU:25:ALA:HB1	23:AX:9:G:H5''	1.74	0.69
1:BA:451:A:N6	1:BA:481:G:H5'	2.07	0.69
1:BA:965:U:HO2'	1:BA:966:G:P	2.16	0.69
4:BD:43:ARG:HA	4:BD:43:ARG:NE	2.08	0.69
1:BA:1048:G:H4'	14:BN:2:LYS:HE3	1.74	0.69
25:CA:1073:A:C3'	25:CA:1074:G:H5''	2.23	0.69
25:CA:1372:U:O2'	25:CA:1373:A:H5'	1.93	0.69
25:CA:1462:C:O2'	25:CA:1463:C:H5''	1.92	0.69
25:CA:1486:U:O2'	25:CA:1487:U:H5'	1.92	0.69
27:CC:51:ARG:HH22	27:CC:246:PRO:HG3	1.57	0.69
31:CG:39:ALA:HA	31:CG:57:TYR:CD1	2.28	0.69
36:CL:109:LYS:HE2	36:CL:128:THR:HG22	1.74	0.69
25:DA:1071:G:C2'	25:DA:1072:C:H5''	2.22	0.69
25:DA:1444:G:H2'	25:DA:1445:G:H8	1.56	0.69
25:DA:204:A:O4'	25:DA:206:U:C6	2.46	0.69
25:DA:2498:C:OP2	60:DA:3689:HOH:O	2.10	0.69
25:DA:2499:C:N3	60:DA:3536:HOH:O	2.25	0.69
25:DA:2731:G:C6	25:DA:2732:G:O6	2.44	0.69
25:DA:611:C:C2'	25:DA:612:G:H5'	2.22	0.69
32:DH:76:GLU:HG2	32:DH:76:GLU:O	1.92	0.69
32:DH:76:GLU:O	32:DH:143:ILE:HB	1.93	0.69
36:DL:106:GLU:C	36:DL:107:PHE:CD2	2.66	0.69
3:AC:139:ASN:HA	3:AC:142:ARG:HB2	1.74	0.69
3:AC:137:VAL:HA	3:AC:148:ILE:HD13	1.74	0.69
5:AE:14:LEU:HB3	5:AE:36:THR:HG22	1.73	0.69
14:AN:47:LYS:HB3	19:AS:12:LEU:HD21	1.75	0.69
17:AQ:7:LEU:HB2	17:AQ:60:ILE:HG22	1.73	0.69
1:BA:632:U:O2	1:BA:632:U:H2'	1.92	0.69
1:BA:929:G:C5	1:BA:930:C:C5	2.81	0.69
5:BE:37:VAL:HG11	5:BE:113:VAL:HA	1.72	0.69
15:BO:62:ARG:O	15:BO:66:LEU:HD12	1.93	0.69
25:CA:2881:U:O2'	25:CA:2882:A:H5'	1.93	0.69
27:CC:16:VAL:CB	27:CC:203:VAL:HG22	2.23	0.69
27:CC:242:HIS:O	27:CC:243:PRO:C	2.30	0.69
31:CG:148:ARG:CG	31:CG:148:ARG:HH11	2.06	0.69
27:DC:140:VAL:HG11	27:DC:189:ALA:HB1	1.73	0.69
32:DH:3:VAL:HG12	32:DH:38:PRO:HA	1.73	0.69
1:AA:613:C:C2'	1:AA:614:C:H5'	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:663:A:O2'	1:AA:664:G:H5'	1.93	0.69
2:AB:131:LYS:O	2:AB:135:MET:SD	2.51	0.69
13:AM:113:LYS:CB	13:AM:114:PRO:HD3	2.23	0.69
4:BD:150:LYS:HB2	4:BD:155:LYS:HE3	1.74	0.69
4:BD:90:LEU:HA	4:BD:93:LEU:HD12	1.73	0.69
14:BN:43:ASN:CG	14:BN:43:ASN:O	2.30	0.69
21:BU:25:ALA:HB3	23:BX:8:A:H5''	1.74	0.69
30:CF:7:TYR:HA	30:CF:11:VAL:CG2	2.22	0.69
25:DA:1412:U:H2'	25:DA:1413:A:C8	2.27	0.69
25:DA:2531:A:C4	25:DA:2532:G:C8	2.80	0.69
25:DA:2547:A:H2'	25:DA:2548:U:C6	2.27	0.69
25:DA:1250:G:OP2	36:DL:21:ARG:NH2	2.26	0.69
1:AA:108:G:C5	20:AT:9:ARG:HG2	2.28	0.69
1:AA:111:G:H5''	1:AA:112:G:OP2	1.93	0.69
3:AC:142:ARG:HG3	3:AC:143:LEU:HD13	1.74	0.69
5:AE:136:VAL:O	5:AE:137:ARG:HB2	1.93	0.69
9:AI:25:GLY:N	9:AI:58:GLU:HA	2.08	0.69
13:AM:74:MET:SD	30:CF:111:ARG:CB	2.81	0.69
1:BA:801:U:H2'	1:BA:802:A:H8	1.58	0.69
1:BA:832:G:H2'	1:BA:833:G:H5'	1.74	0.69
2:BB:143:LEU:HD23	2:BB:143:LEU:H	1.57	0.69
5:BE:82:HIS:CG	8:BH:95:MET:HE2	2.27	0.69
21:BU:13:VAL:HG12	21:BU:15:LEU:CD2	2.22	0.69
25:CA:1067:A:H2'	25:CA:1067:A:N3	2.06	0.69
25:CA:265:A:H4'	25:CA:266:G:OP1	1.91	0.69
25:CA:662:G:H2'	25:CA:663:G:H5'	1.75	0.69
25:DA:135:U:H2'	25:DA:136:G:C8	2.27	0.69
25:DA:1592:C:H2'	25:DA:1593:A:C8	2.28	0.69
25:DA:223:A:C8	25:DA:422:A:H1'	2.28	0.69
25:DA:2768:U:H2'	25:DA:2769:U:O5'	1.93	0.69
31:DG:3:VAL:HG12	31:DG:68:ARG:CG	2.22	0.69
1:AA:1032:G:H3'	1:AA:1033:G:O4'	1.93	0.69
1:AA:1049:U:H4'	1:AA:1050:G:OP2	1.92	0.69
1:AA:436:C:H4'	4:AD:152:SER:CB	2.23	0.69
8:AH:63:LYS:HB2	8:AH:70:VAL:HG21	1.73	0.69
9:AI:43:ALA:HA	9:AI:45:MET:SD	2.33	0.69
13:AM:1:ALA:O	13:AM:9:PRO:HD2	1.93	0.69
21:AU:13:VAL:O	21:AU:15:LEU:CD1	2.41	0.69
22:AV:18:G:C2'	22:AV:58:A:C2	2.75	0.69
1:BA:1000:A:C4	1:BA:1041:G:N2	2.61	0.69
13:BM:14:ALA:O	13:BM:18:LEU:HD23	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2291:U:H2'	25:CA:2292:U:C6	2.28	0.69
40:CP:1:SER:O	40:CP:5:LYS:HG2	1.92	0.69
46:CV:80:HIS:CG	46:CV:81:PRO:CD	2.76	0.69
49:CY:5:GLU:HG3	49:CY:56:LEU:CD1	2.21	0.69
50:CZ:1:ALA:HB1	50:CZ:2:LYS:CE	2.22	0.69
25:DA:1356:G:C4	25:DA:1357:C:C6	2.81	0.69
25:DA:2403:C:C2	25:DA:2404:U:C5	2.81	0.69
45:DU:7:ASP:O	45:DU:8:ASP:HB2	1.92	0.69
49:DY:48:ARG:O	49:DY:51:ALA:HB3	1.93	0.69
1:AA:1187:G:H5'	9:AI:114:LYS:HE3	1.74	0.69
2:AB:218:ALA:O	2:AB:219:THR:HG22	1.92	0.69
4:AD:146:GLU:O	4:AD:149:LYS:HB2	1.93	0.69
8:AH:98:LEU:N	8:AH:98:LEU:HD23	2.08	0.69
11:AK:51:PHE:CZ	11:AK:64:VAL:HG11	2.28	0.69
13:AM:28:ARG:HD2	13:AM:62:PHE:CD2	2.28	0.69
1:BA:595:A:C2	1:BA:641:U:C2	2.81	0.69
8:BH:79:ARG:HB2	8:BH:80:PRO:CD	2.23	0.69
15:BO:85:GLY:O	15:BO:86:LEU:HB3	1.91	0.69
25:CA:1056:G:N2	25:CA:1104:C:N4	2.40	0.69
31:CG:11:PRO:HD2	31:CG:14:VAL:HG21	1.72	0.69
33:CI:4:VAL:O	33:CI:5:GLN:CB	2.40	0.69
40:CP:71:ARG:HD3	40:CP:73:PHE:CZ	2.28	0.69
25:DA:1739:A:H2'	25:DA:1740:G:O5'	1.92	0.69
25:DA:2637:U:C2'	25:DA:2638:G:H5'	2.23	0.69
25:DA:548:G:H4'	25:DA:549:G:C2	2.28	0.69
25:DA:692:C:H2'	25:DA:693:A:O5'	1.93	0.69
31:DG:70:LEU:O	31:DG:74:MET:HG3	1.92	0.69
1:AA:104:G:O2'	1:AA:105:G:H5'	1.93	0.68
1:AA:1351:U:H2'	1:AA:1352:C:C6	2.29	0.68
6:AF:64:VAL:CG1	6:AF:65:GLU:N	2.56	0.68
14:AN:10:VAL:O	14:AN:13:VAL:HG12	1.93	0.68
16:AP:77:GLU:C	16:AP:79:ASN:H	1.96	0.68
1:BA:299:G:H2'	1:BA:300:A:C8	2.28	0.68
1:BA:71:A:H5'	1:BA:71:A:H8	1.57	0.68
1:BA:832:G:C2'	1:BA:833:G:H5'	2.23	0.68
1:BA:983:A:C2'	1:BA:983:A:N3	2.56	0.68
3:BC:101:ASN:C	3:BC:102:ILE:HG13	2.14	0.68
12:BL:24:GLU:HB3	12:BL:26:CYS:SG	2.33	0.68
14:BN:24:ALA:O	14:BN:27:LYS:HG3	1.92	0.68
25:CA:1866:A:C2	25:CA:1876:A:C4	2.81	0.68
25:CA:2473:U:C5	25:CA:2474:U:H5	2.10	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:630:G:H5''	25:CA:631:A:OP2	1.94	0.68
25:CA:978:G:C2'	25:CA:979:A:H5'	2.22	0.68
25:DA:137:U:OP2	25:DA:137:U:C5	2.46	0.68
25:DA:1605:C:C2'	25:DA:1606:C:H5'	2.23	0.68
25:DA:2800:A:C2	25:DA:2895:G:H1'	2.28	0.68
27:DC:16:VAL:HB	27:DC:203:VAL:HG13	1.74	0.68
57:DW:41:PHE:O	57:DW:55:LEU:HD11	1.93	0.68
1:AA:1038:C:C2'	1:AA:1039:G:H5'	2.23	0.68
1:AA:223:A:H2'	1:AA:224:U:C6	2.28	0.68
2:AB:193:ASP:C	2:AB:193:ASP:OD1	2.32	0.68
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.58	0.68
1:AA:1118:U:C5'	9:AI:105:ARG:HG3	2.24	0.68
1:BA:1072:G:H3'	1:BA:1073:U:H6	1.58	0.68
1:BA:1142:G:C5	1:BA:1143:G:H1'	2.28	0.68
1:BA:370:C:O2'	1:BA:371:A:H5'	1.93	0.68
1:BA:613:C:O2'	1:BA:614:C:H5'	1.94	0.68
6:BF:6:ILE:HA	6:BF:88:MET:O	1.92	0.68
6:BF:98:GLU:HG3	6:BF:99:ALA:N	2.07	0.68
12:BL:27:PRO:HB2	12:BL:28:GLN:OE1	1.92	0.68
12:BL:78:VAL:N	12:BL:102:ASP:OD2	2.25	0.68
21:BU:25:ALA:CB	23:BX:8:A:H5''	2.23	0.68
35:CK:113:MET:O	35:CK:114:LYS:C	2.30	0.68
37:CM:15:GLY:O	37:CM:16:ARG:CD	2.41	0.68
28:CD:12:THR:HG23	40:CP:8:GLU:OE2	1.94	0.68
25:DA:1031:G:H4'	55:D4:6:SER:HB2	1.75	0.68
25:DA:1351:C:O2'	25:DA:1571:A:H1'	1.93	0.68
25:DA:783:A:C8	25:DA:784:G:H4'	2.28	0.68
28:DD:25:THR:HG21	28:DD:193:VAL:CG2	2.24	0.68
37:DM:124:LEU:HD23	37:DM:124:LEU:N	2.09	0.68
25:DA:1187:G:H5''	42:DR:83:TYR:CE2	2.28	0.68
46:DV:51:GLN:HB3	46:DV:56:PHE:CD2	2.28	0.68
49:DY:8:GLU:HA	49:DY:12:GLU:HG3	1.75	0.68
1:AA:11:G:C2'	1:AA:12:U:O5'	2.42	0.68
1:AA:468:A:C2	1:AA:469:C:C4	2.82	0.68
1:AA:513:C:H2'	1:AA:514:C:O5'	1.93	0.68
1:AA:659:U:O2	1:AA:659:U:H2'	1.93	0.68
9:AI:43:ALA:CA	9:AI:45:MET:SD	2.81	0.68
11:AK:124:LYS:HG2	11:AK:125:LYS:N	2.08	0.68
1:BA:383:A:H2'	1:BA:384:G:H5'	1.75	0.68
25:CA:12:U:H2'	25:CA:12:U:O2	1.92	0.68
25:CA:2106:U:H5''	25:CA:2107:G:OP2	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2785:C:O2'	28:CD:67:HIS:HD2	1.76	0.68
30:CF:150:GLY:O	30:CF:151:LEU:HB2	1.92	0.68
33:CI:100:ILE:HG21	33:CI:105:LEU:HD12	1.73	0.68
25:DA:1788:C:C2'	25:DA:1789:A:H5'	2.23	0.68
25:DA:1936:A:H2	25:DA:1943:U:H3	1.40	0.68
25:DA:2310:C:H2'	25:DA:2311:A:O5'	1.93	0.68
25:DA:548:G:O2'	25:DA:549:G:C5	2.45	0.68
25:DA:585:G:H5''	25:DA:586:A:OP1	1.94	0.68
29:DE:155:GLU:HG3	29:DE:159:LEU:HD12	1.73	0.68
56:DB:41:G:H8	30:DF:65:LEU:HD11	1.59	0.68
35:DK:7:MET:C	35:DK:8:LEU:HD12	2.13	0.68
1:AA:414:A:H2'	1:AA:415:A:H8	1.58	0.68
1:AA:718:A:H2'	1:AA:719:C:H5'	1.75	0.68
3:AC:139:ASN:HA	3:AC:142:ARG:HB3	1.74	0.68
21:AU:3:ILE:N	21:AU:19:LYS:HE3	2.09	0.68
1:BA:628:G:H2'	1:BA:629:A:C8	2.29	0.68
8:BH:115:ALA:HA	8:BH:118:ALA:HB3	1.75	0.68
9:BI:98:ARG:HA	9:BI:103:VAL:HG21	1.75	0.68
17:BQ:13:SER:OG	17:BQ:16:MET:HE1	1.93	0.68
25:CA:585:G:O2'	29:CE:77:ILE:HG22	1.93	0.68
30:CF:157:THR:CG2	30:CF:159:ALA:HB3	2.23	0.68
28:DD:151:THR:HG22	28:DD:152:PRO:CD	2.22	0.68
29:DE:149:ILE:CG2	29:DE:188:MET:HG2	2.23	0.68
32:DH:4:ILE:HG23	32:DH:17:ASP:O	1.93	0.68
1:AA:937:A:C2	1:AA:1379:G:O6	2.47	0.68
1:AA:804:U:H5''	1:AA:805:C:OP2	1.94	0.68
9:AI:6:TYR:HB2	9:AI:19:PHE:HA	1.76	0.68
9:AI:83:THR:HB	9:AI:97:LEU:HD21	1.74	0.68
12:AL:2:THR:HB	12:AL:5:GLN:HG3	1.76	0.68
19:AS:4:LEU:O	19:AS:5:LYS:HG3	1.94	0.68
1:BA:994:A:C2	1:BA:995:C:C6	2.81	0.68
2:BB:182:VAL:N	2:BB:196:ASP:OD1	2.27	0.68
2:BB:205:ALA:O	2:BB:207:ARG:N	2.26	0.68
21:BU:36:PHE:HA	21:BU:39:LYS:HE3	1.76	0.68
25:CA:1172:C:C4	25:CA:1173:U:C6	2.82	0.68
29:CE:149:ILE:HD12	29:CE:150:THR:N	2.08	0.68
29:CE:18:THR:HG21	29:CE:19:PHE:CE2	2.28	0.68
45:CU:48:VAL:O	45:CU:53:GLN:CB	2.42	0.68
25:DA:2652:C:H2'	25:DA:2653:U:H5'	1.75	0.68
25:DA:2730:C:O2'	25:DA:2731:G:H5'	1.93	0.68
27:DC:173:LEU:HD22	27:DC:183:VAL:HG23	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:261:ARG:HG2	27:DC:262:THR:HG23	1.73	0.68
32:DH:9:VAL:CG2	32:DH:35:LYS:HE2	2.23	0.68
40:DP:9:GLN:HA	40:DP:12:MET:SD	2.34	0.68
49:DY:45:GLN:O	49:DY:48:ARG:N	2.26	0.68
1:AA:260:G:H2'	1:AA:261:U:C6	2.29	0.68
2:BB:46:VAL:HB	2:BB:47:PRO:HD3	1.76	0.68
7:BG:50:ALA:HB1	7:BG:56:SER:O	1.94	0.68
25:CA:1505:A:H2'	25:CA:1506:U:O4'	1.92	0.68
25:CA:2133:G:HO2'	25:CA:2158:A:N6	1.92	0.68
29:CE:146:VAL:CG2	29:CE:167:VAL:HG22	2.24	0.68
25:DA:1551:A:H2'	25:DA:1552:A:C5'	2.23	0.68
25:DA:1570:A:H2'	25:DA:1571:A:C8	2.29	0.68
28:DD:148:GLN:HB2	28:DD:152:PRO:HG2	1.75	0.68
42:DR:49:ILE:HG13	42:DR:49:ILE:O	1.94	0.68
4:AD:25:ARG:HD2	4:AD:30:LYS:HE2	1.75	0.68
4:AD:57:LYS:HB3	4:AD:199:ILE:CB	2.24	0.68
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.94	0.68
10:AJ:52:LEU:HB3	14:AN:81:ARG:HE	1.58	0.68
15:AO:6:ALA:O	15:AO:10:ILE:HD12	1.92	0.68
3:BC:54:ILE:HD13	3:BC:56:ILE:CD1	2.24	0.68
6:BF:16:GLU:O	6:BF:19:PRO:HD2	1.92	0.68
25:CA:1494:A:C2	25:CA:1495:A:C4	2.82	0.68
26:CB:7:G:H2'	26:CB:8:C:H5'	1.75	0.68
25:DA:1429:G:C2	25:DA:1430:G:C5	2.82	0.68
25:DA:1566:A:O2'	25:DA:1567:G:H5'	1.94	0.68
25:DA:340:A:H2'	25:DA:341:C:O4'	1.94	0.68
27:DC:66:PHE:HB3	27:DC:150:GLY:O	1.94	0.68
1:AA:204:G:H3'	1:AA:205:A:H5''	1.76	0.68
17:AQ:44:HIS:ND1	17:AQ:69:THR:CG2	2.56	0.68
1:BA:87:C:H2'	1:BA:88:U:C6	2.29	0.68
3:BC:133:MET:CE	3:BC:167:TYR:HB2	2.24	0.68
17:BQ:12:VAL:HG12	17:BQ:21:VAL:O	1.92	0.68
25:CA:1509:A:N3	25:CA:1510:G:C8	2.62	0.68
25:CA:1734:G:H2'	25:CA:1735:A:H8	1.59	0.68
25:CA:1860:G:C2'	25:CA:1861:G:H5'	2.24	0.68
25:CA:978:G:N7	60:CA:3592:HOH:O	2.26	0.68
49:CY:14:LEU:C	49:CY:17:GLU:HB3	2.14	0.68
25:DA:1551:A:C2'	25:DA:1552:A:H5'	2.24	0.68
25:DA:1593:A:H2'	25:DA:1594:U:O4'	1.93	0.68
25:DA:2528:U:O2'	25:DA:2529:G:H3'	1.94	0.68
25:DA:481:G:C4	25:DA:507:A:C2	2.82	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DK:8:LEU:HD12	35:DK:8:LEU:N	2.08	0.68
1:AA:1314:C:H2'	1:AA:1314:C:O2	1.92	0.68
1:AA:1413:A:C5	1:AA:1414:U:C5	2.82	0.68
1:AA:376:G:C2	1:AA:389:A:C2	2.81	0.68
9:AI:117:LEU:HA	9:AI:124:PRO:HD3	1.76	0.68
21:AU:19:LYS:HE2	21:AU:19:LYS:N	2.09	0.68
21:AU:38:GLU:N	21:AU:40:PRO:CD	2.57	0.68
1:BA:1256:A:C8	1:BA:1258:G:C2	2.82	0.68
2:BB:125:PHE:HD2	2:BB:125:PHE:N	1.92	0.68
3:BC:21:TRP:CZ3	3:BC:31:ASN:ND2	2.62	0.68
4:BD:25:ARG:CG	4:BD:26:ALA:N	2.49	0.68
5:BE:109:ALA:O	5:BE:110:MET:HB2	1.94	0.68
31:CG:71:LEU:HD12	31:CG:71:LEU:N	2.09	0.68
25:DA:1005:C:N3	25:DA:1143:A:C2	2.62	0.68
25:DA:1588:G:C4	25:DA:1589:U:C5	2.82	0.68
25:DA:2893:A:C3'	25:DA:2894:G:H5'	2.23	0.68
27:DC:173:LEU:HD22	27:DC:183:VAL:CG2	2.24	0.68
29:DE:178:VAL:CG1	29:DE:179:SER:N	2.57	0.68
31:DG:59:ASP:OD2	31:DG:63:GLN:HG3	1.92	0.68
25:DA:2882:A:OP1	38:DN:96:ARG:HD3	1.93	0.68
35:DK:76:VAL:CG1	40:DP:72:VAL:CG2	2.72	0.68
1:AA:158:G:H2'	1:AA:159:G:H5''	1.75	0.68
9:AI:33:SER:HB3	9:AI:36:GLN:HG3	1.74	0.68
12:AL:113:ARG:HD2	12:AL:118:VAL:HG12	1.76	0.68
14:AN:26:LEU:O	14:AN:27:LYS:HB3	1.93	0.68
22:AV:55:U:C2	22:AV:57:G:OP2	2.47	0.68
1:BA:484:G:N7	1:BA:486:U:H1'	2.09	0.68
4:BD:16:THR:HG22	4:BD:17:ASP:O	1.94	0.68
6:BF:19:PRO:HA	6:BF:22:ILE:HD12	1.75	0.68
6:BF:85:ILE:O	6:BF:86:ARG:O	2.11	0.68
16:BP:19:VAL:HG22	16:BP:36:VAL:HG12	1.76	0.68
25:CA:1060:U:O4'	25:CA:1062:G:H5'	1.94	0.68
25:CA:247:G:C8	25:CA:249:C:C6	2.82	0.68
27:CC:120:ASP:O	27:CC:121:ALA:O	2.12	0.68
36:CL:58:TYR:O	54:C3:12:ARG:NE	2.26	0.68
25:DA:2062:A:OP1	60:DA:3501:HOH:O	2.10	0.68
25:DA:2219:U:H2'	25:DA:2220:U:O5'	1.93	0.68
25:DA:2792:A:N3	25:DA:2792:A:H2'	2.09	0.68
37:DM:20:LEU:HD22	37:DM:20:LEU:N	2.09	0.68
1:AA:1060:U:C4	3:AC:1:GLY:N	2.57	0.67
1:AA:1126:U:C6	1:AA:1281:C:N3	2.62	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1333:A:H2'	1:AA:1334:G:O5'	1.94	0.67
1:AA:207:C:H2'	1:AA:208:U:C2	2.29	0.67
1:BA:1211:U:H1'	1:BA:1213:A:C2	2.27	0.67
1:BA:1316:G:C5	1:BA:1318:A:OP2	2.46	0.67
1:BA:453:G:H2'	1:BA:454:G:C8	2.29	0.67
1:BA:920:U:H2'	1:BA:921:U:C6	2.29	0.67
3:BC:152:VAL:HB	3:BC:197:VAL:HG22	1.75	0.67
5:BE:155:LYS:N	5:BE:155:LYS:HE3	2.09	0.67
23:BX:13:A:N3	23:BX:14:A:C8	2.62	0.67
25:CA:137:U:H2'	25:CA:140:C:C2	2.29	0.67
25:CA:1519:G:C4	25:CA:1520:U:C6	2.83	0.67
35:CK:8:LEU:N	35:CK:8:LEU:HD12	2.10	0.67
42:CR:21:ARG:NH1	42:CR:93:PHE:CE1	2.62	0.67
25:DA:1411:U:H2'	25:DA:1412:U:O4'	1.94	0.67
25:DA:2162:G:H1'	25:DA:2163:A:O5'	1.92	0.67
25:DA:2223:G:H2'	25:DA:2224:G:C5'	2.24	0.67
25:DA:479:A:H4'	25:DA:480:A:OP1	1.94	0.67
56:DB:21:G:C5	56:DB:22:U:C5	2.82	0.67
33:DI:9:LYS:CB	33:DI:55:PRO:HB2	2.25	0.67
1:AA:1348:U:H4'	9:AI:121:ARG:HG3	1.77	0.67
9:AI:51:LEU:HA	9:AI:54:VAL:HG23	1.76	0.67
11:AK:33:ILE:HB	11:AK:73:VAL:HG11	1.76	0.67
13:AM:33:LEU:HD22	13:AM:40:GLU:HA	1.76	0.67
1:BA:1338:G:H2'	1:BA:1339:A:C8	2.29	0.67
1:BA:211:G:O2'	1:BA:212:G:C4'	2.42	0.67
1:BA:69:G:C4	1:BA:70:U:C5	2.81	0.67
20:BT:59:ARG:O	20:BT:63:LYS:HB2	1.95	0.67
20:BT:43:LYS:CG	20:BT:86:ALA:HA	2.24	0.67
51:C0:43:THR:HG23	51:C0:47:TYR:O	1.94	0.67
25:CA:1171:G:C6	25:CA:1172:C:N3	2.62	0.67
25:CA:1589:U:H2'	25:CA:1589:U:O2	1.93	0.67
25:CA:2110:G:H2'	25:CA:2120:G:OP2	1.94	0.67
25:CA:2297:A:N1	25:CA:2321:U:H5	1.91	0.67
25:CA:2665:A:C2	25:CA:2666:C:C6	2.82	0.67
25:CA:457:A:H5'	25:CA:459:U:H1'	1.75	0.67
31:CG:100:ASN:HD22	31:CG:100:ASN:H	1.40	0.67
32:CH:10:ALA:O	32:CH:12:LEU:HD23	1.93	0.67
37:CM:111:GLU:OE1	37:CM:111:GLU:C	2.33	0.67
25:DA:1448:G:C2	25:DA:1449:G:C4	2.83	0.67
25:DA:1971:U:H6	25:DA:1971:U:H3'	1.59	0.67
36:DL:126:ARG:O	36:DL:127:VAL:HG23	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1303:C:C2'	1:AA:1304:G:O5'	2.42	0.67
1:AA:152:A:N6	1:AA:170:U:C2	2.63	0.67
1:AA:232:G:H1'	1:AA:262:A:N1	2.08	0.67
2:AB:206:ILE:O	2:AB:209:VAL:HG23	1.94	0.67
12:AL:88:ASP:HB3	12:AL:89:LEU:HD12	1.77	0.67
17:AQ:3:LYS:HG3	17:AQ:6:THR:HG22	1.76	0.67
17:AQ:67:SER:O	17:AQ:68:LYS:C	2.33	0.67
1:BA:101:A:H2'	1:BA:102:G:O5'	1.94	0.67
1:BA:1189:U:H5''	1:BA:1190:G:OP2	1.93	0.67
1:BA:143:A:H5'	1:BA:144:G:H5'	1.75	0.67
1:BA:192:A:C2'	1:BA:193:C:H5'	2.24	0.67
6:BF:11:HIS:CG	6:BF:12:PRO:HD2	2.30	0.67
8:BH:95:MET:HB2	8:BH:98:LEU:O	1.94	0.67
11:BK:124:LYS:C	11:BK:124:LYS:HE3	2.14	0.67
25:CA:2146:C:H5''	25:CA:2147:A:OP1	1.95	0.67
26:CB:53:A:H2'	26:CB:54:G:H5'	1.76	0.67
25:CA:2748:A:H1'	31:CG:66:THR:CG2	2.25	0.67
25:DA:2491:U:C5'	25:DA:2570:G:H5''	2.24	0.67
25:DA:2591:C:C2'	25:DA:2592:G:H5'	2.24	0.67
25:DA:301:G:H1'	25:DA:302:C:C6	2.30	0.67
32:DH:62:LEU:HD13	32:DH:63:ALA:CB	2.24	0.67
33:DI:17:ALA:HB1	33:DI:42:ASN:HD21	1.60	0.67
38:DN:87:PHE:O	38:DN:89:SER:N	2.27	0.67
42:DR:53:PHE:CD1	42:DR:53:PHE:N	2.60	0.67
1:AA:1275:A:H2'	1:AA:1276:G:O4'	1.93	0.67
1:AA:141:G:C4	1:AA:142:G:C8	2.82	0.67
1:AA:35:G:H2'	1:AA:36:C:H6	1.59	0.67
1:AA:459:A:C2	1:AA:460:A:C4	2.83	0.67
7:AG:59:GLU:HA	7:AG:62:GLU:HB2	1.76	0.67
3:BC:6:PRO:O	3:BC:9:ILE:HG22	1.94	0.67
5:BE:154:ALA:CB	5:BE:155:LYS:HE3	2.23	0.67
25:CA:2425:A:H4'	25:CA:2426:A:O5'	1.94	0.67
25:CA:995:C:H5'	25:CA:995:C:C6	2.30	0.67
29:CE:44:ARG:O	29:CE:45:ALA:HB2	1.93	0.67
31:CG:140:ILE:HD12	31:CG:141:GLY:N	2.10	0.67
25:DA:1350:C:C2	25:DA:1382:G:N2	2.63	0.67
25:DA:2195:U:C2	25:DA:2196:C:C6	2.83	0.67
27:DC:141:HIS:CB	27:DC:194:VAL:HG12	2.24	0.67
29:DE:149:ILE:HD11	29:DE:172:ALA:HA	1.75	0.67
1:AA:1057:G:H2'	1:AA:1058:G:O5'	1.95	0.67
1:AA:1490:U:O2'	1:AA:1491:G:H5'	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:991:U:C5	1:AA:1212:U:H1'	2.29	0.67
2:AB:53:LEU:HD12	2:AB:219:THR:HG21	1.76	0.67
5:AE:93:VAL:HG21	5:AE:110:MET:SD	2.34	0.67
9:AI:18:VAL:HG11	9:AI:82:ILE:HA	1.75	0.67
17:BQ:7:LEU:HB3	17:BQ:24:ILE:HD13	1.76	0.67
19:BS:57:VAL:HG11	19:BS:74:ALA:HA	1.76	0.67
25:CA:1084:A:C3'	25:CA:1085:A:C8	2.77	0.67
25:CA:1313:U:P	60:CA:3390:HOH:O	2.52	0.67
27:CC:161:VAL:HG22	27:CC:175:LEU:HA	1.76	0.67
33:CI:27:LEU:HD12	33:CI:27:LEU:O	1.94	0.67
26:CB:116:G:H4'	39:CO:54:VAL:HG22	1.76	0.67
41:CQ:88:GLU:H	42:CR:49:ILE:HD12	1.60	0.67
49:CY:6:LEU:HD13	49:CY:56:LEU:HD22	1.77	0.67
51:D0:33:SER:OG	51:D0:35:GLU:HG2	1.94	0.67
25:DA:149:A:N3	25:DA:150:U:C6	2.63	0.67
32:DH:1:MET:O	32:DH:20:ASN:HA	1.95	0.67
33:DI:100:ILE:O	33:DI:101:SER:HB3	1.95	0.67
33:DI:60:VAL:HG22	33:DI:66:PHE:HB3	1.76	0.67
1:AA:1204:A:C5	1:AA:1205:U:C5	2.82	0.67
3:AC:111:ASP:O	3:AC:115:VAL:HG23	1.95	0.67
7:AG:145:GLU:HA	7:AG:148:LYS:HB2	1.77	0.67
8:AH:46:GLU:CA	8:AH:63:LYS:HG2	2.25	0.67
9:AI:24:ASN:HB3	9:AI:58:GLU:CD	2.15	0.67
10:AJ:40:ILE:HG22	10:AJ:73:LEU:HB2	1.77	0.67
11:AK:127:ARG:HG2	11:AK:127:ARG:HH11	1.60	0.67
21:AU:18:PHE:O	21:AU:21:SER:CB	2.42	0.67
24:AY:19:GLU:O	24:AY:23:THR:HG23	1.95	0.67
1:BA:1029:U:O2	1:BA:1029:U:H2'	1.94	0.67
1:BA:1078:U:C2'	1:BA:1079:G:H5'	2.25	0.67
1:BA:1231:G:H4'	9:BI:127:SER:HB2	1.76	0.67
3:BC:166:TRP:HE3	3:BC:166:TRP:C	1.97	0.67
4:BD:170:LEU:N	4:BD:170:LEU:HD12	2.09	0.67
4:BD:172:VAL:HG13	4:BD:173:ASP:H	1.59	0.67
5:BE:106:ALA:HA	5:BE:124:ALA:HB3	1.76	0.67
15:BO:72:LYS:HA	15:BO:72:LYS:HE2	1.75	0.67
25:CA:1055:G:H5''	25:CA:1056:G:OP2	1.95	0.67
25:CA:1180:U:H2'	25:CA:1181:U:H5'	1.75	0.67
25:CA:1567:G:C8	27:CC:82:TYR:HE1	2.11	0.67
25:CA:2305:U:H1'	30:CF:132:ARG:HG2	1.75	0.67
25:CA:2308:G:C5	30:CF:76:PHE:CZ	2.83	0.67
42:CR:49:ILE:HB	42:CR:52:PRO:C	2.15	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:381:G:OP1	48:CX:17:ARG:NH2	2.27	0.67
25:DA:1096:A:H2'	25:DA:1097:U:H5''	1.77	0.67
25:DA:1181:U:H5''	25:DA:1182:G:P	2.35	0.67
25:DA:1354:A:C8	25:DA:1355:G:C8	2.83	0.67
25:DA:1383:A:C2	25:DA:1384:A:C4	2.82	0.67
25:DA:1439:A:C2	25:DA:1553:A:C5	2.83	0.67
30:DF:19:PHE:HB2	30:DF:21:TYR:CE2	2.28	0.67
42:DR:51:VAL:HB	42:DR:52:PRO:CD	2.24	0.67
1:AA:198:G:C5	1:AA:220:G:C2	2.83	0.67
1:AA:481:G:O2'	1:AA:482:A:C8	2.48	0.67
4:AD:202:LEU:HD23	4:AD:203:TYR:CE2	2.30	0.67
4:AD:28:ASP:C	4:AD:29:THR:O	2.31	0.67
10:AJ:56:HIS:O	10:AJ:57:VAL:HG12	1.95	0.67
1:BA:247:G:OP1	1:BA:247:G:H4'	1.92	0.67
10:BJ:66:GLU:HG3	14:BN:99:ALA:HB2	1.77	0.67
20:BT:53:MET:HG3	20:BT:54:GLN:N	2.09	0.67
1:BA:1540:U:H4'	21:BU:17:ARG:HG2	1.76	0.67
25:CA:1060:U:H5'	25:CA:1062:G:C5'	2.25	0.67
25:CA:1854:A:C3'	25:CA:1855:U:H5'	2.25	0.67
26:CB:7:G:C2'	26:CB:8:C:H5'	2.24	0.67
30:CF:157:THR:HG23	30:CF:159:ALA:H	1.59	0.67
32:CH:7:ASP:HA	32:CH:15:LEU:HD22	1.77	0.67
25:DA:1165:A:H2'	25:DA:1166:G:H8	1.60	0.67
25:DA:2492:U:H2'	25:DA:2493:U:H5'	1.75	0.67
25:DA:295:G:C2	25:DA:296:U:C5	2.83	0.67
27:DC:226:PRO:HD3	27:DC:233:GLY:HA2	1.75	0.67
40:DP:74:GLN:HB2	40:DP:77:SER:HB2	1.76	0.67
44:DT:69:ARG:HG3	44:DT:74:ILE:CG2	2.25	0.67
49:DY:9:LYS:N	49:DY:12:GLU:CG	2.57	0.67
1:AA:143:A:H5'	1:AA:144:G:H5'	1.75	0.67
5:AE:81:GLN:H	5:AE:146:MET:HE1	1.59	0.67
9:AI:24:ASN:HB3	9:AI:58:GLU:OE1	1.95	0.67
1:BA:1053:G:C5'	1:BA:1054:C:H5'	2.24	0.67
1:BA:189:A:H2'	1:BA:190:A:O5'	1.93	0.67
11:BK:64:VAL:HA	11:BK:67:GLU:HG3	1.76	0.67
14:BN:43:ASN:HA	14:BN:45:VAL:HG22	1.76	0.67
25:CA:1180:U:H2'	25:CA:1181:U:C5'	2.24	0.67
25:CA:1565:C:H3'	27:CC:17:LYS:NZ	2.10	0.67
25:CA:2155:U:H2'	25:CA:2156:G:O4'	1.95	0.67
26:CB:20:G:O2'	26:CB:21:G:H5'	1.95	0.67
33:CI:121:ILE:HA	33:CI:124:MET:SD	2.34	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1179:G:N7	25:DA:1180:U:C6	2.62	0.67
25:DA:1446:C:H2'	25:DA:1447:C:H6	1.60	0.67
25:DA:1525:A:C5	25:DA:1526:C:C5	2.83	0.67
25:DA:1738:G:O2'	25:DA:1739:A:P	2.53	0.67
25:DA:740:C:H5'	25:DA:1784:A:H3'	1.75	0.67
25:DA:2127:G:H2'	25:DA:2128:G:C8	2.29	0.67
25:DA:748:G:C8	43:DS:89:ALA:HB1	2.30	0.67
32:DH:63:ALA:O	32:DH:66:ASN:HB2	1.95	0.67
1:AA:1378:C:H2'	1:AA:1379:G:O5'	1.95	0.67
1:AA:1402:C:O2	1:AA:1500:A:N1	2.27	0.67
5:AE:18:ASN:O	5:AE:32:PHE:HA	1.95	0.67
17:AQ:14:ASP:CA	17:AQ:16:MET:SD	2.83	0.67
1:BA:1249:C:O2'	9:BI:70:GLY:HA2	1.94	0.67
1:BA:206:C:H2'	1:BA:207:C:C4'	2.25	0.67
1:BA:497:G:O2'	1:BA:498:A:H5'	1.94	0.67
3:BC:28:PHE:HZ	14:BN:94:PRO:HD2	1.59	0.67
4:BD:25:ARG:O	4:BD:26:ALA:HB2	1.94	0.67
12:BL:58:ASN:HD22	12:BL:58:ASN:H	1.43	0.67
25:CA:1613:G:C2'	60:CA:3313:HOH:O	2.43	0.67
27:CC:38:LYS:HE2	27:CC:55:GLY:O	1.94	0.67
25:DA:1812:U:O2	25:DA:1812:U:H2'	1.93	0.67
25:DA:2209:G:C5	25:DA:2210:U:C4	2.82	0.67
25:DA:232:G:H4'	25:DA:233:A:OP1	1.94	0.67
25:DA:58:G:N2	25:DA:70:G:C4	2.63	0.67
35:DK:118:LEU:N	35:DK:118:LEU:HD23	2.09	0.67
56:DB:8:C:H5''	39:DO:27:VAL:HG11	1.77	0.67
2:AB:34:ARG:HE	2:AB:34:ARG:HA	1.59	0.67
4:AD:96:ARG:O	4:AD:100:VAL:HG23	1.95	0.67
21:AU:13:VAL:HG13	21:AU:15:LEU:CG	2.25	0.67
1:BA:1441:A:H3'	1:BA:1441:A:C8	2.29	0.67
1:BA:269:C:H2'	1:BA:270:A:C8	2.30	0.67
1:BA:499:A:H4'	1:BA:500:G:OP1	1.95	0.67
1:BA:88:U:C4	1:BA:89:U:C4	2.83	0.67
10:BJ:80:THR:HB	10:BJ:83:THR:H	1.60	0.67
25:CA:1387:A:H2'	25:CA:1388:G:O4'	1.95	0.67
25:CA:1687:G:O2'	25:CA:1688:U:H5'	1.95	0.67
25:CA:322:A:H5'	25:CA:340:A:H1'	1.76	0.67
33:CI:6:ALA:HB3	33:CI:60:VAL:H	1.60	0.67
25:DA:1380:G:OP2	60:DA:3759:HOH:O	2.12	0.67
25:DA:2005:A:H5''	60:DA:3384:HOH:O	1.94	0.67
25:DA:2133:G:C2	25:DA:2158:A:N6	2.63	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DR:49:ILE:HG21	42:DR:53:PHE:H	1.58	0.67
1:AA:1134:G:C4	1:AA:1141:C:N4	2.63	0.66
2:AB:90:PHE:H	2:AB:149:GLY:HA3	1.60	0.66
3:AC:6:PRO:HG2	3:AC:183:TYR:CG	2.30	0.66
3:AC:24:ASN:O	3:AC:26:LYS:N	2.27	0.66
4:AD:31:CYS:SG	4:AD:32:LYS:N	2.68	0.66
8:AH:103:VAL:O	8:AH:103:VAL:HG22	1.94	0.66
18:AR:24:ASP:HB3	18:AR:27:THR:HB	1.77	0.66
3:BC:154:GLY:HA2	3:BC:162:ALA:HB1	1.75	0.66
3:BC:41:TYR:CE2	3:BC:45:GLU:HG2	2.30	0.66
5:BE:104:ILE:N	5:BE:121:ASN:O	2.27	0.66
9:BI:53:LEU:O	9:BI:54:VAL:HG22	1.95	0.66
25:CA:1530:G:H2'	25:CA:1530:G:N3	2.09	0.66
25:CA:1585:C:C2'	25:CA:1586:A:O5'	2.43	0.66
25:CA:2105:U:H2'	25:CA:2106:U:O4'	1.96	0.66
28:CD:85:ALA:HB3	28:CD:88:GLU:HG3	1.76	0.66
30:CF:11:VAL:HG13	30:CF:171:ALA:HB1	1.76	0.66
33:CI:74:PRO:HB2	33:CI:77:VAL:HG13	1.77	0.66
42:CR:42:ALA:HA	42:CR:46:GLU:CB	2.22	0.66
55:D4:23:ILE:HB	55:D4:38:GLY:HA3	1.76	0.66
25:DA:1315:C:H2'	25:DA:1316:U:H6	1.61	0.66
25:DA:1526:C:N4	25:DA:1527:G:C6	2.63	0.66
25:DA:168:G:H2'	25:DA:168:G:N3	2.10	0.66
25:DA:2615:U:H1'	51:D0:3:GLN:HB3	1.75	0.66
30:DF:34:THR:HG23	30:DF:89:THR:HA	1.77	0.66
34:DJ:99:ARG:O	34:DJ:103:ILE:HD12	1.96	0.66
45:DU:15:GLY:O	45:DU:16:LYS:HB2	1.95	0.66
1:AA:1397:C:HO2'	1:AA:1398:A:P	2.17	0.66
1:AA:510:A:H5''	1:AA:511:C:OP2	1.95	0.66
13:AM:3:ILE:HD11	13:AM:9:PRO:CG	2.25	0.66
18:AR:54:LEU:CD1	18:AR:58:ILE:HD11	2.25	0.66
5:BE:24:VAL:HG23	5:BE:26:GLY:H	1.59	0.66
6:BF:47:LEU:CD1	6:BF:51:ILE:CG2	2.73	0.66
10:BJ:10:LEU:N	10:BJ:10:LEU:HD12	2.10	0.66
1:BA:1308:U:H5''	13:BM:96:VAL:CG2	2.25	0.66
17:BQ:44:HIS:ND1	17:BQ:69:THR:HG21	2.10	0.66
25:CA:1179:G:N7	25:CA:1180:U:O4'	2.28	0.66
33:CI:83:ALA:HB2	33:CI:105:LEU:HD11	1.76	0.66
35:CK:34:GLY:O	35:CK:35:VAL:C	2.33	0.66
49:CY:9:LYS:HE2	49:CY:11:VAL:CG2	2.25	0.66
25:DA:2196:C:C2'	25:DA:2197:U:H5'	2.25	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2415:G:C4	25:DA:2416:C:C5	2.83	0.66
25:DA:323:C:N3	25:DA:333:G:C8	2.64	0.66
25:DA:422:A:OP2	60:DA:3567:HOH:O	2.12	0.66
31:DG:36:LEU:HD13	31:DG:40:VAL:HG11	1.78	0.66
1:AA:1031:C:C2'	1:AA:1032:G:OP2	2.43	0.66
1:AA:1083:U:H5	1:AA:1084:G:C6	2.12	0.66
1:AA:518:C:H2'	1:AA:530:G:C8	2.30	0.66
19:AS:28:LYS:CB	19:AS:29:PRO:HD2	2.25	0.66
24:AY:149:ILE:HG23	24:AY:153:ASP:CB	2.25	0.66
2:BB:130:LYS:HA	2:BB:133:ALA:HB3	1.76	0.66
4:BD:123:MET:HE3	4:BD:145:ARG:HB3	1.77	0.66
9:BI:43:ALA:HB1	9:BI:46:VAL:HG21	1.75	0.66
16:BP:10:GLY:HA3	16:BP:15:PRO:HA	1.76	0.66
19:BS:3:SER:O	19:BS:4:LEU:HB2	1.93	0.66
20:BT:69:ASN:O	20:BT:70:LYS:C	2.34	0.66
1:BA:723:U:C5	21:BU:49:ALA:HA	2.31	0.66
25:CA:2133:G:C2'	25:CA:2158:A:N6	2.59	0.66
25:CA:2172:U:OP1	25:CA:2174:C:C5	2.48	0.66
25:CA:2550:G:C2'	25:CA:2551:C:H5'	2.24	0.66
25:CA:2887:A:H2'	25:CA:2887:A:N3	2.09	0.66
43:CS:45:VAL:O	43:CS:46:LEU:C	2.33	0.66
45:CU:48:VAL:O	45:CU:53:GLN:HB2	1.95	0.66
25:DA:1062:G:H2'	25:DA:1063:G:C4	2.30	0.66
25:DA:1351:C:O2	25:DA:1381:G:C2	2.48	0.66
25:DA:82:U:H5'	25:DA:296:U:H5''	1.76	0.66
30:DF:33:ILE:HG12	30:DF:155:ILE:HA	1.77	0.66
31:DG:112:VAL:HG21	31:DG:150:TYR:CD2	2.31	0.66
32:DH:134:VAL:HG12	32:DH:138:VAL:O	1.94	0.66
1:AA:1530:G:O2'	1:AA:1531:A:OP2	2.13	0.66
10:AJ:49:PHE:N	10:AJ:49:PHE:CD1	2.63	0.66
1:BA:423:G:N2	1:BA:424:G:C8	2.64	0.66
1:BA:469:C:H5	1:BA:470:C:C4	2.14	0.66
4:BD:151:GLN:O	4:BD:154:VAL:HG12	1.96	0.66
5:BE:133:ILE:HD12	5:BE:133:ILE:H	1.59	0.66
10:BJ:87:LEU:HD13	10:BJ:88:MET:HG2	1.78	0.66
25:CA:1180:U:O3'	25:CA:1180:U:OP1	2.14	0.66
25:CA:1789:A:OP2	27:CC:220:ARG:NH1	2.28	0.66
25:CA:10:A:H2	25:CA:2800:A:HO2'	1.43	0.66
33:CI:54:ILE:HG12	33:CI:73:PRO:CA	2.25	0.66
25:DA:2146:C:H5''	25:DA:2147:A:OP1	1.95	0.66
25:DA:2248:C:C2'	25:DA:2249:U:H5'	2.24	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:20:ASN:OD1	27:DC:20:ASN:C	2.33	0.66
36:DL:4:ASN:C	36:DL:5:THR:HG22	2.15	0.66
45:DU:98:ASN:C	45:DU:98:ASN:OD1	2.34	0.66
1:AA:959:A:C2	1:AA:1222:G:O4'	2.48	0.66
1:AA:1278:G:H4'	1:AA:1279:G:C8	2.31	0.66
18:AR:35:SER:HA	18:AR:71:ASP:OD2	1.96	0.66
1:BA:1262:C:C6	1:BA:1263:C:C5	2.83	0.66
1:BA:562:U:H4'	1:BA:563:A:H5'	1.78	0.66
1:BA:590:U:H2'	1:BA:591:U:C6	2.30	0.66
6:BF:18:VAL:HA	6:BF:21:MET:CE	2.26	0.66
37:CM:57:VAL:O	37:CM:60:GLN:CG	2.42	0.66
45:CU:17:ASP:HB3	45:CU:20:LYS:HD3	1.76	0.66
25:DA:1001:A:OP2	60:DA:3742:HOH:O	2.13	0.66
25:DA:1517:G:N2	25:DA:1732:C:C4	2.63	0.66
25:DA:2134:A:H62	25:DA:2157:G:H1'	1.61	0.66
25:DA:744:U:OP1	60:DA:3658:HOH:O	2.13	0.66
42:DR:39:LEU:C	42:DR:49:ILE:HG23	2.16	0.66
1:AA:918:A:H2'	1:AA:919:A:C8	2.30	0.66
2:AB:212:TYR:HA	2:AB:215:ALA:HB3	1.78	0.66
11:AK:121:ARG:CZ	21:AU:35:GLU:HG3	2.26	0.66
21:AU:7:GLU:HB3	21:AU:11:PHE:HZ	1.60	0.66
21:AU:36:PHE:CD1	21:AU:39:LYS:HE3	2.31	0.66
1:BA:1211:U:O2'	1:BA:1212:U:OP2	2.14	0.66
1:BA:540:G:H2'	1:BA:541:G:O4'	1.95	0.66
2:BB:98:GLY:HA2	2:BB:101:THR:CG2	2.24	0.66
5:BE:121:ASN:O	5:BE:122:VAL:O	2.13	0.66
9:BI:83:THR:HG21	9:BI:102:PHE:HB3	1.76	0.66
20:BT:64:GLY:HA2	20:BT:67:HIS:CE1	2.31	0.66
25:CA:1474:U:H2'	25:CA:1475:G:H5'	1.76	0.66
25:CA:2203:U:H5''	25:CA:2204:G:OP1	1.95	0.66
32:CH:117:LEU:HD21	32:CH:121:VAL:CA	2.24	0.66
40:CP:29:VAL:HG13	40:CP:79:VAL:HG12	1.77	0.66
44:CT:1:MET:C	44:CT:3:ARG:HB2	2.16	0.66
47:CW:20:LYS:O	47:CW:21:ARG:HD3	1.94	0.66
25:DA:2297:A:C2	25:DA:2298:A:C8	2.83	0.66
25:DA:2666:C:C5	25:DA:2667:C:C4	2.83	0.66
25:DA:2893:A:H4'	25:DA:2894:G:H5'	1.77	0.66
25:DA:540:C:C2'	25:DA:541:A:H5'	2.25	0.66
27:DC:79:ARG:HD3	27:DC:92:LEU:HB3	1.76	0.66
35:DK:76:VAL:HG12	40:DP:72:VAL:HG23	1.78	0.66
35:DK:99:ILE:HD13	35:DK:118:LEU:HD12	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DL:90:VAL:HG12	36:DL:90:VAL:O	1.94	0.66
42:DR:61:ALA:HB1	42:DR:97:LYS:O	1.95	0.66
1:AA:1138:G:C8	1:AA:1140:C:H5'	2.30	0.66
7:AG:119:LEU:CD2	7:AG:123:LEU:CD2	2.73	0.66
1:BA:1323:G:H2'	1:BA:1324:A:C8	2.30	0.66
1:BA:328:C:H2'	1:BA:328:C:O2	1.93	0.66
3:BC:5:HIS:HD2	14:BN:89:MET:HB3	1.60	0.66
8:BH:54:THR:C	8:BH:56:PRO:HD3	2.16	0.66
11:BK:62:ALA:CB	11:BK:91:GLY:HA2	2.26	0.66
18:BR:38:ILE:CD1	18:BR:55:ALA:HA	2.26	0.66
55:C4:36:ARG:HG2	55:C4:37:GLN:N	2.11	0.66
25:CA:1080:A:C2	25:CA:1081:U:C5	2.83	0.66
25:CA:2334:U:O4	39:CO:16:ARG:NH2	2.29	0.66
25:CA:246:C:H2'	25:CA:247:G:H5'	1.78	0.66
30:CF:121:PHE:HB3	30:CF:162:ASP:OD2	1.95	0.66
34:CJ:64:VAL:HG13	34:CJ:68:LYS:HB2	1.78	0.66
25:DA:687:C:H2'	25:DA:688:U:O4'	1.96	0.66
25:DA:900:A:C2	25:DA:901:C:C1'	2.78	0.66
33:DI:46:ASP:HA	33:DI:50:LYS:HD2	1.76	0.66
1:AA:64:G:C2	1:AA:67:C:N4	2.64	0.66
4:AD:131:ILE:HD12	4:AD:134:TYR:N	2.11	0.66
1:BA:374:A:H5''	1:BA:452:A:H2	1.60	0.66
1:BA:451:A:H61	1:BA:481:G:H5'	1.61	0.66
1:BA:642:A:N3	8:BH:104:SER:OG	2.28	0.66
17:BQ:61:ARG:C	17:BQ:72:TRP:CE3	2.69	0.66
32:CH:31:VAL:CB	32:CH:32:PRO:HD2	2.24	0.66
42:CR:41:ILE:O	42:CR:46:GLU:HB2	1.95	0.66
49:CY:9:LYS:HE2	49:CY:11:VAL:HG21	1.77	0.66
25:DA:1087:G:C4	25:DA:1089:A:H1'	2.31	0.66
25:DA:1477:A:C2	25:DA:1515:A:C4	2.82	0.66
25:DA:2133:G:N3	25:DA:2158:A:C6	2.64	0.66
25:DA:465:G:H2'	25:DA:466:A:C8	2.31	0.66
30:DF:103:ILE:HG22	30:DF:174:PHE:HA	1.78	0.66
32:DH:72:ILE:CG2	32:DH:73:ASN:N	2.59	0.66
33:DI:38:CYS:CA	33:DI:41:PHE:HB3	2.22	0.66
40:DP:92:ARG:O	40:DP:93:LYS:HB2	1.95	0.66
41:DQ:85:ALA:HB3	41:DQ:87:VAL:HG23	1.77	0.66
42:DR:49:ILE:HB	42:DR:51:VAL:O	1.96	0.66
1:AA:1133:G:N1	1:AA:1142:G:C6	2.64	0.66
1:AA:204:G:C8	1:AA:205:A:H5''	2.31	0.66
3:AC:87:ARG:HG2	3:AC:98:ALA:O	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:95:MET:HB2	8:AH:98:LEU:O	1.96	0.66
12:AL:43:LYS:HB2	12:AL:44:PRO:CD	2.26	0.66
21:AU:9:GLU:CG	21:AU:10:PRO:HD3	2.26	0.66
1:BA:1005:A:N7	1:BA:1006:G:C4	2.64	0.66
1:BA:1239:A:H2'	1:BA:1298:U:O4	1.94	0.66
1:BA:940:C:H2'	1:BA:941:G:C8	2.30	0.66
4:BD:169:TRP:CD1	4:BD:185:PRO:HG3	2.31	0.66
25:CA:2221:G:O2'	25:CA:2222:C:H5'	1.95	0.66
27:CC:51:ARG:NH2	27:CC:246:PRO:HG3	2.11	0.66
33:CI:71:LYS:CD	33:CI:71:LYS:N	2.58	0.66
51:D0:12:ARG:O	51:D0:16:ARG:HG3	1.96	0.66
25:DA:250:G:OP2	54:D3:12:ARG:NH1	2.29	0.66
25:DA:1025:G:O2'	60:DA:3714:HOH:O	2.04	0.66
25:DA:194:G:C8	60:DA:3767:HOH:O	2.49	0.66
25:DA:2115:G:O2'	25:DA:2117:A:N6	2.29	0.66
25:DA:2148:G:H2'	25:DA:2149:U:C6	2.31	0.66
25:DA:2345:G:C5	25:DA:2381:A:C2	2.84	0.66
25:DA:78:U:OP1	49:DY:2:LYS:HD2	1.96	0.66
56:DB:102:G:H8	56:DB:102:G:O5'	1.78	0.66
28:DD:124:ARG:HD3	28:DD:125:TRP:NE1	2.11	0.66
33:DI:89:SER:HB3	33:DI:92:PRO:HG3	1.77	0.66
38:DN:32:GLU:HA	38:DN:115:LEU:HG	1.78	0.66
49:DY:9:LYS:HG2	49:DY:10:SER:N	2.10	0.66
1:AA:1124:G:H3'	1:AA:1145:A:H61	1.59	0.66
1:AA:66:A:C2	1:AA:67:C:C6	2.84	0.66
12:AL:89:LEU:HD12	12:AL:89:LEU:N	2.10	0.66
1:BA:4:U:C5'	1:BA:5:U:OP1	2.44	0.66
2:BB:49:PHE:CD1	2:BB:49:PHE:C	2.69	0.66
2:BB:56:LEU:O	2:BB:59:ILE:HG13	1.96	0.66
2:BB:95:TRP:CZ3	2:BB:174:GLU:OE2	2.48	0.66
5:BE:156:ARG:O	5:BE:158:LYS:N	2.29	0.66
6:BF:50:PRO:HD3	18:BR:73:HIS:HB3	1.77	0.66
7:BG:131:GLY:H	7:BG:134:VAL:CG1	2.08	0.66
8:BH:82:LEU:HD13	8:BH:82:LEU:O	1.95	0.66
17:BQ:7:LEU:HD22	17:BQ:72:TRP:CH2	2.31	0.66
53:C2:43:THR:O	53:C2:44:VAL:CB	2.44	0.66
25:CA:1058:U:H1'	25:CA:1081:U:O2	1.96	0.66
25:CA:408:G:C2	25:CA:420:C:O2	2.49	0.66
25:CA:981:A:OP1	60:CA:3601:HOH:O	2.14	0.66
44:CT:35:ALA:O	44:CT:38:ALA:HB3	1.96	0.66
25:DA:1506:U:H2'	25:DA:1507:C:C6	2.30	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2206:C:O2'	25:DA:2207:C:H5'	1.95	0.66
25:DA:2338:C:C2	25:DA:2339:C:C5	2.84	0.66
25:DA:418:C:H2'	25:DA:419:U:O4'	1.95	0.66
25:DA:860:U:O4'	25:DA:2268:A:H5'	1.96	0.66
36:DL:10:GLU:HA	36:DL:10:GLU:OE1	1.96	0.66
46:DV:42:LEU:HD12	46:DV:47:VAL:HG21	1.78	0.66
9:AI:10:ARG:HB3	9:AI:15:ALA:HA	1.76	0.65
1:BA:414:A:C2	1:BA:415:A:H1'	2.31	0.65
2:BB:17:HIS:O	2:BB:18:GLN:HB2	1.95	0.65
1:BA:1078:U:O2	5:BE:89:THR:HG21	1.96	0.65
25:CA:2061:G:OP2	60:CA:3498:HOH:O	2.14	0.65
25:CA:2202:U:H5''	25:CA:2203:U:OP1	1.96	0.65
27:CC:17:LYS:HA	27:CC:17:LYS:HE3	1.78	0.65
33:CI:57:VAL:HG23	33:CI:71:LYS:NZ	2.11	0.65
25:DA:1177:G:H2'	25:DA:1178:C:O4'	1.96	0.65
25:DA:1429:G:O2'	25:DA:1430:G:H5'	1.96	0.65
25:DA:1590:A:H2'	25:DA:1591:A:H8	1.60	0.65
25:DA:1638:C:H4'	25:DA:2710:C:O2	1.96	0.65
25:DA:2039:U:H2'	25:DA:2040:G:C8	2.30	0.65
25:DA:2133:G:N3	25:DA:2158:A:N6	2.43	0.65
30:DF:103:ILE:CG2	30:DF:174:PHE:HA	2.26	0.65
1:AA:505:G:H4'	1:AA:534:U:C5	2.31	0.65
1:AA:993:G:N3	1:AA:993:G:H2'	2.11	0.65
6:AF:7:VAL:O	6:AF:7:VAL:HG13	1.96	0.65
8:AH:48:PHE:HD1	8:AH:48:PHE:H	1.42	0.65
9:AI:66:VAL:HG22	9:AI:74:GLN:HG2	1.76	0.65
13:AM:21:ILE:HB	13:AM:24:VAL:HG22	1.76	0.65
14:AN:35:ALA:CB	14:AN:41:ARG:HB3	2.25	0.65
3:AC:36:PHE:CZ	14:AN:92:GLU:OE2	2.49	0.65
16:AP:77:GLU:C	16:AP:79:ASN:N	2.48	0.65
21:AU:28:LEU:O	21:AU:28:LEU:HD23	1.96	0.65
1:BA:1113:C:C2	1:BA:1114:C:C5	2.85	0.65
1:BA:1142:G:C6	1:BA:1143:G:H1'	2.31	0.65
1:BA:500:G:C6	1:BA:501:C:N4	2.64	0.65
2:BB:134:LEU:HA	2:BB:137:THR:OG1	1.95	0.65
9:BI:27:ILE:HG23	9:BI:62:LEU:CD1	2.25	0.65
20:BT:64:GLY:C	20:BT:67:HIS:CE1	2.69	0.65
22:BV:20:U:OP1	22:BV:20:U:O4'	2.15	0.65
25:CA:1060:U:H4'	25:CA:1061:U:H3'	1.78	0.65
25:CA:2114:A:C4	25:CA:2167:U:H5'	2.30	0.65
25:CA:215:G:H4'	25:CA:216:A:H4'	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2318:G:C6	25:CA:2319:G:N1	2.65	0.65
32:CH:31:VAL:O	32:CH:32:PRO:C	2.31	0.65
33:CI:66:PHE:CE1	33:CI:68:PHE:CE1	2.84	0.65
38:CN:13:ASN:C	38:CN:13:ASN:HD22	2.00	0.65
25:DA:137:U:C6	25:DA:137:U:OP2	2.50	0.65
25:DA:1542:U:O2'	25:DA:1543:G:H5'	1.95	0.65
25:DA:2216:G:H2'	25:DA:2217:G:C8	2.31	0.65
25:DA:2727:A:C6	25:DA:2728:U:O4	2.50	0.65
25:DA:2885:G:N7	51:D0:39:ARG:NH2	2.44	0.65
30:DF:99:PHE:O	30:DF:102:LEU:HB3	1.96	0.65
33:DI:116:MET:SD	33:DI:128:ILE:HD11	2.36	0.65
34:DJ:140:LEU:HD12	34:DJ:141:ASP:N	2.10	0.65
1:AA:701:U:H4'	1:AA:702:A:H5''	1.79	0.65
1:AA:744:C:H2'	1:AA:745:G:C8	2.31	0.65
1:AA:805:C:O2'	1:AA:806:C:H5'	1.96	0.65
2:AB:119:GLN:N	2:AB:122:ASP:HB2	2.12	0.65
1:BA:175:C:O2'	1:BA:176:C:H5'	1.96	0.65
1:BA:236:A:H2'	1:BA:237:G:C8	2.32	0.65
3:BC:102:ILE:N	3:BC:102:ILE:HD12	2.10	0.65
8:BH:74:ILE:HD13	8:BH:128:VAL:HG22	1.78	0.65
20:BT:64:GLY:CA	20:BT:67:HIS:CE1	2.79	0.65
25:CA:2055:C:H5'	25:CA:2056:G:H5''	1.77	0.65
25:CA:981:A:H5''	60:CA:3598:HOH:O	1.93	0.65
33:CI:38:CYS:HB3	33:CI:42:ASN:ND2	2.11	0.65
33:CI:42:ASN:OD1	33:CI:45:THR:HB	1.97	0.65
40:CP:112:ARG:O	40:CP:113:LEU:HG	1.97	0.65
25:DA:1475:G:O2'	25:DA:1476:U:P	2.54	0.65
25:DA:2164:C:H2'	25:DA:2165:C:H6	1.60	0.65
25:DA:443:A:N7	29:DE:40:ARG:HD3	2.10	0.65
25:DA:665:U:O2	25:DA:665:U:H2'	1.96	0.65
56:DB:43:C:H5''	56:DB:44:G:OP2	1.96	0.65
35:DK:1:MET:HG2	35:DK:32:TYR:CD1	2.31	0.65
40:DP:93:LYS:HG2	40:DP:95:LYS:O	1.97	0.65
1:AA:37:U:O2'	1:AA:500:G:H4'	1.97	0.65
1:AA:542:G:N3	1:AA:543:U:C5	2.64	0.65
2:AB:102:ASN:HB3	2:AB:105:THR:HB	1.77	0.65
2:AB:88:GLN:CG	2:AB:220:VAL:HG11	2.26	0.65
5:AE:131:ASN:HD22	5:AE:131:ASN:C	1.99	0.65
10:AJ:63:ASP:OD1	14:AN:85:ARG:HD2	1.97	0.65
1:BA:1476:A:H2'	1:BA:1477:U:C6	2.31	0.65
1:BA:802:A:H5''	1:BA:803:G:OP2	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:87:GLY:H	11:BK:113:THR:CG2	2.08	0.65
12:BL:29:LYS:HE3	12:BL:29:LYS:HA	1.79	0.65
21:BU:23:GLU:HA	21:BU:27:VAL:HG22	1.77	0.65
52:C1:7:LYS:HA	52:C1:23:THR:HG22	1.79	0.65
54:C3:30:HIS:O	54:C3:31:ILE:C	2.33	0.65
25:CA:2119:A:C2	25:CA:2169:A:C2	2.85	0.65
25:CA:544:C:C5	25:CA:545:U:C5	2.85	0.65
27:CC:161:VAL:CG1	27:CC:173:LEU:HB3	2.27	0.65
45:CU:45:GLN:OE1	45:CU:58:VAL:HG21	1.95	0.65
25:DA:1301:A:H4'	25:DA:1302:A:OP1	1.96	0.65
25:DA:2038:G:H2'	25:DA:2039:U:O4'	1.96	0.65
25:DA:479:A:N3	25:DA:481:G:H5''	2.11	0.65
32:DH:4:ILE:HG22	32:DH:5:LEU:H	1.61	0.65
33:DI:56:VAL:HB	33:DI:70:THR:HB	1.79	0.65
44:DT:22:THR:HA	44:DT:25:GLU:CG	2.26	0.65
44:DT:7:LEU:HD21	44:DT:46:ALA:CA	2.26	0.65
1:AA:1314:C:O2	1:AA:1315:U:C6	2.49	0.65
1:AA:403:C:H2'	1:AA:404:G:O4'	1.96	0.65
3:AC:59:PRO:HB3	10:AJ:94:ALA:HB1	1.78	0.65
5:AE:59:ILE:HG13	5:AE:60:GLN:N	2.10	0.65
8:AH:9:MET:HG3	8:AH:26:MET:SD	2.36	0.65
1:AA:1279:G:H5''	10:AJ:9:ARG:NH2	2.12	0.65
1:BA:1007:U:H2'	1:BA:1008:U:H5''	1.78	0.65
1:BA:1160:G:HO2'	1:BA:1161:C:H6	1.42	0.65
1:BA:692:U:H2'	1:BA:694:A:OP2	1.97	0.65
2:BB:156:LEU:HD23	2:BB:156:LEU:O	1.96	0.65
6:BF:77:THR:O	6:BF:80:PHE:HB3	1.96	0.65
25:CA:1098:A:C6	25:CA:1099:G:N1	2.65	0.65
25:CA:1169:A:C2	25:CA:1181:U:O2	2.49	0.65
25:CA:2141:G:H2'	25:CA:2142:A:H5'	1.78	0.65
25:CA:760:G:C2'	25:CA:761:A:H5'	2.27	0.65
60:CA:3660:HOH:O	28:CD:140:HIS:NE2	2.29	0.65
25:CA:2304:G:H1'	30:CF:128:SER:HB3	1.78	0.65
30:CF:141:ASP:O	30:CF:145:VAL:HG13	1.96	0.65
32:CH:2:GLN:O	32:CH:3:VAL:HG22	1.96	0.65
32:CH:31:VAL:HB	32:CH:32:PRO:CD	2.25	0.65
42:CR:49:ILE:HG22	42:CR:53:PHE:H	1.60	0.65
25:DA:1233:C:H2'	25:DA:1234:U:O5'	1.95	0.65
25:DA:2407:A:N3	25:DA:2408:U:C5	2.65	0.65
56:DB:103:U:H2'	56:DB:104:A:H5'	1.78	0.65
27:DC:132:ARG:HG3	27:DC:133:ASN:OD1	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:20:SER:HB3	33:DI:21:PRO:HD3	1.78	0.65
36:DL:127:VAL:HG12	36:DL:131:ALA:HB3	1.78	0.65
36:DL:82:LEU:HD23	36:DL:83:ALA:N	2.10	0.65
3:AC:21:TRP:CG	3:AC:58:ARG:HG2	2.31	0.65
7:AG:38:ALA:O	7:AG:41:ILE:HB	1.97	0.65
14:AN:43:ASN:OD1	14:AN:47:LYS:HE2	1.97	0.65
17:AQ:15:LYS:C	17:AQ:16:MET:SD	2.75	0.65
22:AV:60:U:H5''	22:AV:61:C:H5	1.62	0.65
2:BB:56:LEU:HD13	2:BB:57:ASN:N	2.12	0.65
14:BN:17:ASP:HA	14:BN:20:PHE:O	1.96	0.65
20:BT:69:ASN:O	20:BT:71:ALA:N	2.30	0.65
33:CI:83:ALA:CB	33:CI:105:LEU:HD11	2.27	0.65
25:CA:870:U:OP1	37:CM:6:ARG:HD3	1.97	0.65
38:CN:103:ARG:NE	38:CN:110:MET:HE2	2.11	0.65
25:DA:64:A:H2'	25:DA:65:U:C6	2.32	0.65
34:DJ:37:ARG:HG2	34:DJ:39:LYS:HG2	1.78	0.65
34:DJ:80:HIS:HB3	34:DJ:81:ILE:HG22	1.77	0.65
37:DM:21:ALA:CB	37:DM:100:LYS:HG2	2.27	0.65
44:DT:39:THR:HG22	44:DT:42:GLU:HB2	1.77	0.65
49:DY:23:ARG:O	49:DY:24:GLU:C	2.35	0.65
1:AA:198:G:C4	1:AA:199:A:C8	2.84	0.65
1:AA:972:C:H4'	10:AJ:59:LYS:CE	2.27	0.65
2:AB:16:GLY:HA3	2:AB:39:ILE:HA	1.77	0.65
3:AC:181:ILE:HD13	3:AC:202:PHE:HA	1.79	0.65
4:AD:3:TYR:O	4:AD:4:LEU:HB2	1.97	0.65
10:AJ:48:ARG:C	10:AJ:49:PHE:CD1	2.70	0.65
11:AK:13:LYS:O	11:AK:14:GLN:CB	2.45	0.65
11:AK:13:LYS:O	11:AK:14:GLN:HB2	1.97	0.65
1:BA:1093:A:C2	1:BA:1095:U:C4'	2.79	0.65
1:BA:463:U:C2'	1:BA:463:U:O2	2.45	0.65
1:BA:64:G:C8	1:BA:99:C:N4	2.65	0.65
2:BB:99:MET:CA	2:BB:106:VAL:HG21	2.27	0.65
7:BG:85:GLN:NE2	7:BG:85:GLN:HA	2.11	0.65
18:BR:41:SER:CB	18:BR:51:GLN:HE21	2.09	0.65
25:CA:2161:C:O2	25:CA:2161:C:H2'	1.97	0.65
25:CA:2404:U:C2'	25:CA:2405:G:O5'	2.44	0.65
25:CA:743:A:O3'	60:CA:3659:HOH:O	2.14	0.65
33:CI:57:VAL:HG12	33:CI:58:ILE:N	2.12	0.65
34:CJ:76:HIS:CE1	34:CJ:85:LYS:HB2	2.31	0.65
36:CL:90:VAL:HG23	36:CL:120:VAL:HG21	1.78	0.65
36:CL:92:LEU:H	36:CL:92:LEU:HD12	1.62	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1091:G:C4	25:DA:1092:C:C5	2.85	0.65
25:DA:149:A:C4	25:DA:150:U:C6	2.85	0.65
25:DA:1589:U:H2'	25:DA:1590:A:C8	2.31	0.65
25:DA:1873:G:H2'	25:DA:1874:C:H6	1.60	0.65
25:DA:2287:A:C8	25:DA:2289:G:C8	2.85	0.65
25:DA:623:C:H2'	25:DA:624:C:H6	1.61	0.65
34:DJ:31:GLU:O	34:DJ:34:ARG:HB3	1.96	0.65
35:DK:104:THR:HG22	35:DK:122:VAL:HG11	1.77	0.65
41:DQ:78:PHE:CZ	41:DQ:82:LEU:HD11	2.31	0.65
43:DS:59:GLU:CG	43:DS:66:ILE:HD11	2.27	0.65
44:DT:2:ILE:HG12	44:DT:7:LEU:HD12	1.78	0.65
1:AA:1145:A:H2'	1:AA:1146:A:OP2	1.97	0.65
1:AA:144:G:C5	1:AA:179:A:C2	2.84	0.65
1:AA:737:C:O2'	1:AA:738:C:H5'	1.97	0.65
2:AB:40:ILE:HG21	2:AB:201:GLY:HA2	1.79	0.65
11:AK:41:LEU:HD22	11:AK:76:TYR:CD2	2.31	0.65
13:AM:80:MET:HG2	13:AM:91:ARG:CZ	2.27	0.65
18:AR:56:ARG:HE	18:AR:60:ARG:NH1	1.95	0.65
1:BA:82:G:O6	1:BA:87:C:N3	2.29	0.65
2:BB:67:LEU:HD23	2:BB:90:PHE:HA	1.78	0.65
1:BA:750:C:O2	15:BO:22:GLY:HA3	1.97	0.65
15:BO:80:LEU:HD11	15:BO:84:LEU:HD22	1.78	0.65
17:BQ:16:MET:HG2	17:BQ:19:SER:HB3	1.78	0.65
25:CA:1714:U:H5''	25:CA:1715:G:C5'	2.26	0.65
25:CA:34:U:O2'	25:CA:35:G:OP1	2.15	0.65
25:CA:973:A:OP2	42:CR:81:LYS:HE3	1.95	0.65
33:CI:61:TYR:HH	33:CI:67:THR:HG1	1.42	0.65
33:CI:56:VAL:HA	33:CI:71:LYS:HE2	1.79	0.65
39:CO:31:THR:HG22	39:CO:33:ARG:H	1.61	0.65
25:DA:973:A:O4'	25:DA:1188:U:C6	2.49	0.65
25:DA:1586:A:C8	25:DA:1587:G:C8	2.85	0.65
25:DA:2338:C:O2	25:DA:2339:C:C5	2.49	0.65
25:DA:362:A:N3	25:DA:362:A:H2'	2.10	0.65
1:AA:35:G:H2'	1:AA:36:C:C6	2.31	0.65
1:AA:541:G:C4	1:AA:542:G:C8	2.85	0.65
2:AB:55:GLU:HA	2:AB:58:LYS:CB	2.27	0.65
1:AA:421:U:C2	3:AC:126:ARG:NH2	2.65	0.65
4:AD:144:ILE:HG22	4:AD:145:ARG:O	1.97	0.65
8:AH:63:LYS:HB2	8:AH:70:VAL:CG2	2.27	0.65
11:AK:95:THR:O	11:AK:99:LEU:CD2	2.45	0.65
12:AL:58:ASN:ND2	12:AL:60:PHE:CD1	2.64	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:63:VAL:O	13:AM:68:LEU:HB2	1.97	0.65
17:AQ:12:VAL:CG1	17:AQ:21:VAL:HG13	2.26	0.65
6:AF:7:VAL:HG11	18:AR:64:LEU:HD11	1.78	0.65
1:BA:1126:U:C5	1:BA:1281:C:N4	2.65	0.65
1:BA:938:A:C2	1:BA:1345:U:O4	2.50	0.65
1:BA:1492:A:C2	25:DA:1913:A:N6	2.65	0.65
1:BA:240:G:OP1	1:BA:240:G:H4'	1.96	0.65
2:BB:104:LYS:HG2	2:BB:104:LYS:O	1.97	0.65
4:BD:47:LEU:HD23	4:BD:52:VAL:CG1	2.27	0.65
4:BD:97:LEU:HD12	4:BD:97:LEU:C	2.17	0.65
10:BJ:9:ARG:CZ	10:BJ:9:ARG:HB3	2.25	0.65
13:BM:85:TYR:CE2	13:BM:89:ARG:HG3	2.32	0.65
25:CA:1746:A:C2	25:CA:1747:U:C2	2.85	0.65
26:CB:65:U:H2'	26:CB:108:A:N6	2.12	0.65
34:CJ:49:ASP:OD1	34:CJ:121:LYS:HE3	1.96	0.65
36:CL:126:ARG:H	36:CL:126:ARG:HD3	1.62	0.65
25:DA:1538:G:O4'	25:DA:1538:G:OP2	2.15	0.65
25:DA:2197:U:C6	25:DA:2224:G:N1	2.65	0.65
56:DB:62:C:H2'	56:DB:63:C:C6	2.31	0.65
30:DF:28:PRO:CB	30:DF:168:LEU:HD22	2.26	0.65
31:DG:154:GLU:HG2	31:DG:155:PRO:CD	2.26	0.65
32:DH:31:VAL:HG12	32:DH:32:PRO:CD	2.27	0.65
32:DH:69:ALA:HB2	32:DH:138:VAL:HG12	1.78	0.65
35:DK:79:PHE:HB3	40:DP:67:GLU:OE2	1.97	0.65
36:DL:9:ALA:HB3	36:DL:12:SER:OG	1.97	0.65
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.97	0.65
1:AA:1478:U:H2'	1:AA:1479:C:H6	1.62	0.65
4:AD:90:LEU:HD21	4:AD:194:ILE:HD11	1.79	0.65
7:AG:105:GLU:O	7:AG:109:LYS:HG2	1.97	0.65
14:AN:20:PHE:C	14:AN:22:LYS:H	1.99	0.65
1:BA:121:U:O4'	1:BA:121:U:OP2	2.15	0.65
1:BA:1234:C:C2'	1:BA:1235:U:H5'	2.26	0.65
1:BA:469:C:C5	1:BA:470:C:C4	2.84	0.65
1:BA:684:U:H2'	1:BA:685:G:H5'	1.78	0.65
1:BA:840:C:N3	1:BA:842:U:H4'	2.11	0.65
2:BB:101:THR:HG22	2:BB:174:GLU:OE1	1.97	0.65
6:BF:36:ILE:HB	6:BF:64:VAL:HG22	1.78	0.65
25:CA:1840:G:C5	25:CA:1841:U:C5	2.85	0.65
25:CA:2152:G:H2'	25:CA:2153:C:H5'	1.79	0.65
25:CA:594:U:H2'	25:CA:595:C:C6	2.32	0.65
29:CE:18:THR:CG2	29:CE:19:PHE:CD2	2.80	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CT:89:GLU:O	44:CT:91:GLN:HG2	1.97	0.65
25:DA:1338:G:O2'	25:DA:1339:G:H5'	1.96	0.65
25:DA:1414:C:C4	25:DA:1415:U:H5	2.14	0.65
25:DA:1429:G:N2	25:DA:1430:G:C4	2.65	0.65
25:DA:1439:A:C2	25:DA:1553:A:C4	2.84	0.65
25:DA:1589:U:C2	25:DA:1590:A:N7	2.65	0.65
25:DA:2591:C:O2'	25:DA:2592:G:H5'	1.97	0.65
25:DA:2749:A:OP1	31:DG:1:SER:HB3	1.97	0.65
33:DI:32:VAL:HG13	33:DI:66:PHE:CE2	2.32	0.65
36:DL:70:LYS:O	36:DL:74:THR:HG23	1.97	0.65
1:AA:410:G:H5''	4:AD:25:ARG:NH2	2.12	0.64
1:AA:811:C:O2'	1:AA:901:A:N1	2.29	0.64
6:AF:42:TRP:CD1	6:AF:42:TRP:N	2.63	0.64
7:AG:71:THR:HG23	7:AG:72:VAL:HG13	1.79	0.64
10:AJ:52:LEU:HD11	10:AJ:59:LYS:HA	1.78	0.64
11:AK:39:ASN:O	11:AK:40:ALA:HB3	1.97	0.64
16:AP:20:VAL:CG2	16:AP:35:ARG:HA	2.27	0.64
1:AA:1318:A:H1'	19:AS:36:ARG:NH1	2.13	0.64
1:BA:1039:G:C6	1:BA:1040:U:C4	2.84	0.64
1:BA:1078:U:O2'	1:BA:1079:G:H5'	1.96	0.64
1:BA:986:U:H2'	1:BA:987:G:O4'	1.97	0.64
4:BD:4:LEU:HD13	4:BD:4:LEU:N	2.12	0.64
20:BT:53:MET:CE	20:BT:57:VAL:HG21	2.27	0.64
20:BT:43:LYS:CE	20:BT:85:LEU:O	2.44	0.64
52:C1:33:LEU:H	52:C1:51:ALA:HB3	1.62	0.64
25:CA:1086:A:H5''	25:CA:1087:G:OP1	1.97	0.64
25:CA:1313:U:H2'	25:CA:1610:A:C2	2.31	0.64
25:CA:192:C:H2'	25:CA:193:U:H5'	1.79	0.64
25:CA:2103:C:H2'	25:CA:2104:C:H5'	1.78	0.64
25:CA:2223:G:H2'	25:CA:2224:G:H5'	1.79	0.64
33:CI:92:PRO:HA	33:CI:97:VAL:HG21	1.79	0.64
25:DA:1469:A:C2	25:DA:1470:A:C5	2.85	0.64
25:DA:2219:U:C2'	25:DA:2220:U:O5'	2.45	0.64
25:DA:529:A:H4'	25:DA:530:G:OP1	1.96	0.64
25:DA:811:U:C2	25:DA:1251:C:C5	2.84	0.64
30:DF:33:ILE:HD13	30:DF:155:ILE:HG12	1.79	0.64
32:DH:76:GLU:HG2	32:DH:143:ILE:CD1	2.27	0.64
35:DK:4:GLU:O	35:DK:5:GLN:HB2	1.96	0.64
1:AA:1446:A:C2'	1:AA:1447:A:H5'	2.27	0.64
6:AF:3:HIS:HB2	6:AF:92:THR:HA	1.79	0.64
19:AS:49:ALA:HA	19:AS:57:VAL:O	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:38:GLU:N	21:AU:40:PRO:HD2	2.11	0.64
24:AY:118:VAL:HG12	24:AY:176:LEU:CD1	2.27	0.64
1:BA:1292:G:H2'	1:BA:1293:C:C6	2.32	0.64
6:AF:16:GLU:OE2	4:BD:190:LEU:O	2.14	0.64
5:BE:56:PRO:O	5:BE:59:ILE:HG13	1.96	0.64
9:BI:53:LEU:O	9:BI:54:VAL:HG13	1.98	0.64
25:CA:1045:C:H3'	25:CA:1046:A:H5'	1.78	0.64
25:CA:1142:A:C2	25:CA:1144:A:C8	2.85	0.64
25:CA:1998:A:OP2	28:CD:141:ARG:NH2	2.30	0.64
25:CA:2311:A:N7	30:CF:76:PHE:CD2	2.66	0.64
25:CA:26:G:C6	25:CA:27:G:N1	2.65	0.64
25:CA:2731:G:C6	25:CA:2732:G:O6	2.50	0.64
27:CC:161:VAL:HG11	27:CC:173:LEU:HG	1.78	0.64
31:CG:123:GLU:OE1	31:CG:123:GLU:HA	1.97	0.64
25:CA:1070:A:C2	33:CI:9:LYS:HG3	2.32	0.64
25:DA:517:C:OP2	51:D0:9:ARG:NH2	2.30	0.64
29:DE:148:ILE:HD12	29:DE:187:VAL:HG11	1.79	0.64
29:DE:61:ARG:HD2	29:DE:63:LYS:O	1.96	0.64
30:DF:100:GLU:O	30:DF:101:ARG:C	2.36	0.64
34:DJ:117:ALA:O	34:DJ:119:PHE:N	2.30	0.64
39:DO:37:ALA:O	39:DO:78:VAL:HG21	1.97	0.64
1:AA:1033:G:N3	1:AA:1033:G:H2'	2.10	0.64
1:AA:151:A:H2'	1:AA:152:A:O4'	1.98	0.64
1:AA:376:G:H2'	1:AA:377:G:H8	1.62	0.64
9:AI:96:GLU:N	9:AI:96:GLU:OE2	2.30	0.64
10:AJ:59:LYS:HE3	10:AJ:59:LYS:H	1.63	0.64
17:AQ:68:LYS:O	17:AQ:69:THR:HB	1.97	0.64
19:AS:28:LYS:CB	19:AS:29:PRO:CD	2.74	0.64
1:BA:71:A:H5'	1:BA:71:A:C8	2.31	0.64
1:BA:852:G:C6	1:BA:853:C:C4	2.85	0.64
1:BA:72:A:N6	1:BA:99:C:HI'	2.11	0.64
2:BB:221:ARG:HE	2:BB:222:GLU:H	1.44	0.64
3:BC:84:GLU:HG3	3:BC:85:LYS:N	2.12	0.64
5:BE:152:VAL:O	5:BE:153:ALA:C	2.35	0.64
5:BE:14:LEU:CA	5:BE:36:THR:HG22	2.27	0.64
20:BT:42:ASP:HB3	20:BT:45:ALA:HB3	1.78	0.64
22:BV:26:A:C2'	22:BV:27:G:H5'	2.28	0.64
25:CA:2852:G:H2'	25:CA:2853:C:C6	2.33	0.64
27:CC:110:LYS:CE	27:CC:113:ASP:OD1	2.44	0.64
35:CK:58:LEU:HD22	35:CK:58:LEU:N	2.13	0.64
25:DA:469:G:O6	53:D2:37:LYS:HE2	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1442:U:C2'	25:DA:1443:U:O5'	2.45	0.64
25:DA:1454:C:C5	38:DN:63:ARG:HG2	2.33	0.64
25:DA:1621:U:H5''	25:DA:1622:G:OP1	1.97	0.64
25:DA:2296:U:C2	25:DA:2333:A:C2	2.86	0.64
56:DB:63:C:C2'	56:DB:64:G:O5'	2.45	0.64
34:DJ:142:ILE:HG23	34:DJ:142:ILE:OXT	1.97	0.64
56:DB:52:A:C5	39:DO:33:ARG:NH2	2.66	0.64
49:DY:10:SER:O	49:DY:14:LEU:HD12	1.97	0.64
1:AA:1478:U:H2'	1:AA:1479:C:C6	2.32	0.64
1:AA:419:C:H2'	1:AA:420:U:O5'	1.97	0.64
1:AA:844:G:C6	1:AA:846:G:O2'	2.49	0.64
1:AA:874:G:C5	1:AA:875:U:C5	2.84	0.64
2:AB:116:LEU:HA	2:AB:119:GLN:OE1	1.98	0.64
12:AL:23:LEU:O	12:AL:24:GLU:C	2.34	0.64
17:AQ:56:ASP:O	17:AQ:58:VAL:HG12	1.97	0.64
1:BA:485:U:OP2	1:BA:485:U:H4'	1.96	0.64
1:BA:929:G:C2'	1:BA:930:C:O5'	2.44	0.64
2:BB:125:PHE:N	2:BB:125:PHE:CD2	2.62	0.64
7:BG:68:VAL:O	7:BG:70:PRO:N	2.30	0.64
10:BJ:22:THR:HA	10:BJ:25:ILE:CG2	2.28	0.64
21:BU:11:PHE:N	21:BU:11:PHE:CD1	2.63	0.64
25:CA:55:G:O2'	25:CA:127:A:N1	2.26	0.64
25:CA:1414:C:C4	25:CA:1415:U:C5	2.86	0.64
25:CA:557:C:H2'	25:CA:558:U:H6	1.62	0.64
32:CH:3:VAL:HB	32:CH:37:VAL:O	1.97	0.64
33:CI:79:LEU:HD11	33:CI:132:ALA:HB2	1.79	0.64
46:CV:80:HIS:CG	46:CV:81:PRO:HD2	2.32	0.64
25:DA:1445:G:N2	25:DA:1547:C:C2	2.65	0.64
28:DD:50:VAL:HG23	28:DD:51:THR:N	2.12	0.64
33:DI:9:LYS:HB2	33:DI:55:PRO:CB	2.26	0.64
1:AA:1028:C:H2'	1:AA:1028:C:O2	1.97	0.64
1:AA:1083:U:C5	1:AA:1084:G:C4	2.86	0.64
1:AA:271:C:H2'	1:AA:272:C:H6	1.63	0.64
1:AA:832:G:C2'	1:AA:833:G:H5'	2.26	0.64
2:AB:40:ILE:HD13	2:AB:40:ILE:C	2.17	0.64
3:AC:147:GLY:HA3	3:AC:171:ARG:O	1.97	0.64
3:AC:71:ARG:N	3:AC:72:PRO:HD3	2.13	0.64
5:AE:81:GLN:HG2	5:AE:149:PRO:HB3	1.79	0.64
5:AE:73:VAL:HG11	5:AE:143:LEU:HB3	1.80	0.64
9:AI:39:GLY:O	9:AI:40:ARG:HB2	1.96	0.64
10:AJ:52:LEU:HD13	10:AJ:61:ALA:HB3	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:254:G:OP1	17:AQ:69:THR:HB	1.96	0.64
24:AY:149:ILE:HG23	24:AY:153:ASP:HB3	1.80	0.64
1:BA:430:A:OP2	4:BD:7:LYS:HD2	1.97	0.64
8:BH:46:GLU:O	8:BH:47:ASP:HB2	1.98	0.64
1:BA:1130:A:H4'	9:BI:19:PHE:CE1	2.31	0.64
13:BM:9:PRO:O	13:BM:10:ASP:HB2	1.96	0.64
18:BR:24:ASP:O	18:BR:26:ALA:N	2.30	0.64
1:BA:1527:U:OP2	21:BU:38:GLU:HG3	1.98	0.64
25:CA:1234:U:H2'	25:CA:1235:G:O5'	1.97	0.64
30:CF:128:SER:O	30:CF:129:MET:HB3	1.98	0.64
33:CI:6:ALA:CB	33:CI:60:VAL:H	2.10	0.64
37:CM:108:VAL:HG12	37:CM:109:PRO:HD2	1.78	0.64
38:CN:35:LYS:HB2	38:CN:112:TYR:CE1	2.33	0.64
38:CN:10:LEU:O	38:CN:12:ARG:N	2.30	0.64
44:CT:16:VAL:O	44:CT:16:VAL:HG23	1.96	0.64
25:DA:1871:A:O2'	25:DA:1872:A:N7	2.30	0.64
25:DA:2414:G:C6	25:DA:2415:G:N7	2.65	0.64
28:DD:9:VAL:HG23	28:DD:26:VAL:O	1.98	0.64
29:DE:176:ASP:OD2	29:DE:178:VAL:HG12	1.97	0.64
30:DF:104:THR:O	30:DF:108:PRO:HG2	1.97	0.64
1:AA:1213:A:C8	1:AA:1215:G:C5	2.86	0.64
1:AA:1304:G:OP2	60:AA:1795:HOH:O	2.14	0.64
1:AA:1356:G:O2'	1:AA:1357:A:H5'	1.98	0.64
1:AA:666:G:H5'	1:AA:726:C:H1'	1.80	0.64
2:AB:162:VAL:HG13	2:AB:184:ALA:HB2	1.78	0.64
3:AC:166:TRP:O	3:AC:167:TYR:CD1	2.51	0.64
1:BA:1126:U:C6	1:BA:1281:C:C4	2.86	0.64
1:BA:1386:G:C2	1:BA:1387:G:N7	2.65	0.64
1:BA:518:C:H2'	1:BA:530:G:H8	1.62	0.64
1:BA:69:G:H2'	1:BA:70:U:C6	2.32	0.64
2:BB:99:MET:O	2:BB:103:TRP:HA	1.97	0.64
4:BD:55:ARG:HH12	4:BD:58:GLN:HG2	1.62	0.64
10:BJ:5:ARG:HG3	10:BJ:6:ILE:HG12	1.80	0.64
10:BJ:53:ILE:HG22	10:BJ:61:ALA:O	1.98	0.64
17:BQ:5:ARG:NH1	17:BQ:5:ARG:HB2	2.12	0.64
17:BQ:7:LEU:H	17:BQ:60:ILE:HG22	1.62	0.64
19:BS:14:LEU:HD23	19:BS:37:SER:OG	1.96	0.64
21:BU:38:GLU:OE2	21:BU:41:THR:HG21	1.97	0.64
25:CA:141:G:H3'	25:CA:142:A:C8	2.32	0.64
25:CA:18:U:OP1	41:CQ:29:ARG:NH2	2.31	0.64
30:CF:7:TYR:HA	30:CF:11:VAL:HG23	1.78	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:154:THR:HG22	30:CF:154:THR:O	1.98	0.64
38:CN:57:THR:O	38:CN:57:THR:HG22	1.95	0.64
49:CY:14:LEU:O	49:CY:17:GLU:HB3	1.96	0.64
49:CY:19:LEU:HA	49:CY:22:LEU:HB3	1.79	0.64
25:DA:1047:G:H4'	25:DA:1048:A:H5'	1.79	0.64
25:DA:157:C:H2'	25:DA:158:U:O4'	1.98	0.64
25:DA:1916:A:H2'	25:DA:1917:U:O4'	1.98	0.64
25:DA:2230:G:H2'	25:DA:2231:U:C6	2.31	0.64
25:DA:2291:U:H2'	25:DA:2292:U:C6	2.32	0.64
56:DB:22:U:H2'	56:DB:22:U:O2	1.96	0.64
56:DB:35:C:H2'	56:DB:36:C:O5'	1.97	0.64
30:DF:3:LEU:HD21	30:DF:100:GLU:HB2	1.80	0.64
32:DH:133:GLN:HA	32:DH:139:PHE:CD1	2.32	0.64
49:DY:53:VAL:O	49:DY:56:LEU:O	2.15	0.64
49:DY:57:LEU:O	49:DY:61:ALA:HB3	1.96	0.64
1:AA:1083:U:C5	1:AA:1084:G:C5	2.84	0.64
1:AA:205:A:C2	1:AA:206:C:O4'	2.50	0.64
1:AA:768:A:H2'	1:AA:769:G:H5'	1.78	0.64
3:AC:41:TYR:OH	3:AC:89:VAL:HG21	1.98	0.64
4:AD:2:ARG:NH2	4:AD:114:ARG:HD3	2.13	0.64
1:AA:718:A:H5'	11:AK:118:ASN:HB2	1.79	0.64
1:BA:1252:A:H2'	1:BA:1253:G:O4'	1.97	0.64
1:BA:1521:C:C2'	1:BA:1522:U:O5'	2.46	0.64
1:BA:220:G:C2	1:BA:221:C:C6	2.86	0.64
1:BA:847:G:H2'	1:BA:848:C:O4'	1.97	0.64
6:BF:9:MET:HB2	6:BF:85:ILE:HG13	1.79	0.64
25:CA:1076:C:N3	25:CA:1077:A:C6	2.66	0.64
25:CA:1467:U:C4	25:CA:1546:G:C2	2.85	0.64
25:CA:2277:G:C2'	25:CA:2278:A:O5'	2.43	0.64
25:CA:2318:G:O2'	25:CA:2319:G:H5'	1.98	0.64
25:CA:395:U:O2'	25:CA:396:G:N7	2.24	0.64
25:CA:907:G:C2'	25:CA:908:C:H5'	2.27	0.64
27:CC:120:ASP:O	27:CC:121:ALA:C	2.36	0.64
29:CE:146:VAL:HG22	29:CE:167:VAL:HG22	1.79	0.64
36:CL:76:GLU:C	36:CL:77:ILE:HD13	2.17	0.64
25:DA:1486:U:C2	25:DA:1504:A:C2	2.85	0.64
25:DA:1538:G:OP2	25:DA:1538:G:H8	1.80	0.64
25:DA:1926:U:H1'	25:DA:1929:G:C6	2.33	0.64
25:DA:2096:C:H2'	25:DA:2097:A:C8	2.33	0.64
25:DA:310:A:H5''	45:DU:14:THR:HG22	1.79	0.64
25:DA:484:C:H2'	25:DA:485:C:H6	1.62	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:615:U:H3'	25:DA:616:A:H5'	1.80	0.64
25:DA:876:C:N4	25:DA:877:A:C6	2.65	0.64
32:DH:3:VAL:O	32:DH:19:VAL:HG22	1.97	0.64
39:DO:49:VAL:HG12	39:DO:50:ALA:H	1.63	0.64
25:DA:78:U:P	49:DY:2:LYS:HD2	2.38	0.64
1:AA:1101:A:C4'	1:AA:1102:A:O5'	2.45	0.64
1:AA:1202:U:H1'	14:AN:69:ARG:HD2	1.78	0.64
1:AA:575:G:O2'	1:AA:821:G:H5'	1.97	0.64
1:AA:802:A:H2'	1:AA:803:G:H5'	1.78	0.64
2:AB:64:GLY:C	2:AB:65:LYS:HD3	2.17	0.64
1:AA:717:U:H4'	11:AK:118:ASN:HD22	1.63	0.64
1:AA:1313:U:OP2	19:AS:5:LYS:CB	2.45	0.64
20:AT:81:GLN:O	20:AT:84:LYS:HB2	1.98	0.64
25:CA:164:C:H2'	25:CA:165:A:H5'	1.79	0.64
26:CB:54:G:H2'	26:CB:55:U:H6	1.63	0.64
42:CR:51:VAL:HB	42:CR:52:PRO:CD	2.28	0.64
25:DA:1091:G:O6	25:DA:1101:U:O4	2.16	0.64
25:DA:1248:G:OP1	41:DQ:1:ALA:HB3	1.98	0.64
25:DA:1385:A:H1'	25:DA:1386:C:H6	1.63	0.64
25:DA:2794:C:H2'	25:DA:2795:C:O4'	1.98	0.64
25:DA:616:A:C2'	25:DA:617:G:O5'	2.46	0.64
25:DA:866:A:O4'	25:DA:914:G:N2	2.30	0.64
28:DD:180:VAL:O	28:DD:180:VAL:HG12	1.98	0.64
28:DD:51:THR:OG1	28:DD:76:GLY:HA3	1.97	0.64
33:DI:70:THR:C	33:DI:71:LYS:HD3	2.18	0.64
42:DR:47:VAL:HG12	42:DR:47:VAL:O	1.97	0.64
1:AA:1480:A:C2	1:AA:1481:U:C2	2.86	0.64
1:AA:1492:A:H3'	1:AA:1493:A:C8	2.33	0.64
1:AA:190:A:C8	1:AA:191:G:C8	2.86	0.64
1:AA:395:C:H2'	1:AA:396:C:C6	2.33	0.64
1:AA:536:C:P	60:AA:1887:HOH:O	2.56	0.64
1:AA:945:G:C2	1:AA:946:A:C8	2.86	0.64
2:AB:105:THR:O	2:AB:106:VAL:CB	2.46	0.64
3:AC:57:GLU:HG3	3:AC:64:ARG:HB3	1.80	0.64
11:AK:60:PHE:O	11:AK:64:VAL:HG12	1.98	0.64
12:AL:23:LEU:HB2	12:AL:58:ASN:HD22	1.63	0.64
1:BA:1060:U:O2'	1:BA:1061:G:H5'	1.98	0.64
1:BA:332:G:C2'	1:BA:333:U:H5'	2.27	0.64
1:BA:436:C:H2'	1:BA:437:U:C6	2.32	0.64
4:BD:38:GLY:H	4:BD:41:GLY:HA3	1.62	0.64
8:BH:12:ARG:HD3	8:BH:26:MET:HE2	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:29:LYS:CE	12:BL:29:LYS:HA	2.28	0.64
12:BL:34:THR:HG22	12:BL:35:ARG:HG2	1.80	0.64
22:BV:40:C:H2'	22:BV:41:C:H6	1.63	0.64
25:CA:580:U:H2'	25:CA:581:C:H6	1.62	0.64
25:CA:994:C:O3'	25:CA:995:C:H3'	1.98	0.64
26:CB:53:A:C2'	26:CB:54:G:H5'	2.28	0.64
28:CD:1:MET:HG3	28:CD:205:PRO:HG2	1.79	0.64
25:DA:1540:G:C5	25:DA:1541:C:C5	2.86	0.64
56:DB:48:U:P	39:DO:30:ARG:HH22	2.21	0.64
32:DH:34:GLY:O	32:DH:35:LYS:HG3	1.97	0.64
1:AA:1004:A:C4	1:AA:1026:G:C5	2.87	0.64
1:AA:1246:A:H2'	1:AA:1247:U:C6	2.33	0.64
1:AA:542:G:N3	1:AA:543:U:C6	2.65	0.64
1:AA:679:C:H2'	1:AA:680:C:O4'	1.97	0.64
1:AA:951:G:C6	1:AA:1231:G:C6	2.86	0.64
2:AB:49:PHE:HA	2:AB:52:ALA:CB	2.26	0.64
4:AD:189:ASP:O	4:AD:190:LEU:HG	1.97	0.64
6:AF:18:VAL:HB	6:AF:19:PRO:HD3	1.81	0.64
21:AU:13:VAL:HG13	21:AU:15:LEU:HG	1.79	0.64
1:BA:1086:U:OP1	1:BA:1086:U:H4'	1.98	0.64
27:CC:78:GLU:HB2	27:CC:92:LEU:O	1.98	0.64
28:CD:151:THR:HG22	28:CD:152:PRO:CD	2.27	0.64
30:CF:154:THR:CG2	30:CF:154:THR:O	2.46	0.64
31:CG:79:THR:HG22	31:CG:80:GLU:N	2.12	0.64
31:CG:88:LEU:N	31:CG:88:LEU:HD12	2.13	0.64
36:CL:91:ASP:HB3	36:CL:93:ASN:O	1.98	0.64
42:CR:49:ILE:CG2	42:CR:53:PHE:H	2.11	0.64
25:DA:1087:G:H2'	25:DA:1088:A:H5'	1.78	0.64
25:DA:164:C:H2'	25:DA:165:A:H5'	1.80	0.64
25:DA:2250:G:O5'	25:DA:2250:G:H8	1.81	0.64
33:DI:46:ASP:CA	33:DI:50:LYS:HD2	2.28	0.64
36:DL:91:ASP:CB	36:DL:94:THR:HB	2.26	0.64
38:DN:33:ILE:HG23	38:DN:33:ILE:O	1.98	0.64
40:DP:38:ARG:HG3	40:DP:39:LEU:H	1.62	0.64
1:AA:214:C:H2'	1:AA:215:C:H6	1.64	0.63
2:AB:88:GLN:C	2:AB:89:PHE:CD2	2.72	0.63
3:AC:166:TRP:HE3	3:AC:166:TRP:C	2.00	0.63
7:AG:46:LEU:HG	7:AG:57:GLU:HG3	1.80	0.63
20:AT:53:MET:O	20:AT:56:ILE:CG2	2.46	0.63
20:AT:80:ALA:O	20:AT:84:LYS:HG2	1.97	0.63
1:BA:1522:U:H2'	1:BA:1523:G:O5'	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1521:C:H2'	1:BA:1522:U:O5'	1.97	0.63
1:BA:1540:U:O3'	21:BU:17:ARG:NE	2.30	0.63
1:BA:40:C:C2	1:BA:41:G:C8	2.86	0.63
1:BA:572:A:H5'	1:BA:573:A:OP2	1.98	0.63
1:BA:722:G:H4'	21:BU:48:LYS:HE2	1.80	0.63
6:BF:46:GLN:HA	6:BF:56:LYS:HG3	1.80	0.63
11:BK:124:LYS:O	21:BU:34:ARG:HB2	1.98	0.63
14:BN:73:PHE:CE2	14:BN:78:GLY:HA2	2.33	0.63
17:BQ:60:ILE:HG23	17:BQ:61:ARG:N	2.12	0.63
25:CA:1269:A:OP2	60:CA:3384:HOH:O	2.15	0.63
25:CA:1426:G:H1'	25:CA:1572:A:N6	2.13	0.63
25:CA:1665:A:N3	35:CK:1:MET:HE2	2.13	0.63
25:CA:2211:A:O2'	25:CA:2212:A:OP1	2.15	0.63
25:CA:2328:A:H2'	25:CA:2329:U:C6	2.33	0.63
25:CA:2332:C:H5''	25:CA:2333:A:OP1	1.99	0.63
25:CA:2637:U:C2'	25:CA:2638:G:H5'	2.27	0.63
25:CA:846:U:O2'	25:CA:847:U:C5	2.50	0.63
26:CB:112:G:H2'	26:CB:113:C:C6	2.33	0.63
28:CD:56:LYS:O	28:CD:57:ALA:C	2.36	0.63
33:CI:101:SER:HA	33:CI:140:GLU:C	2.18	0.63
33:CI:101:SER:HB3	33:CI:104:GLN:NE2	2.13	0.63
46:CV:50:MET:O	46:CV:52:ALA:N	2.30	0.63
25:DA:1176:U:C5	25:DA:1177:G:C6	2.87	0.63
25:DA:1385:A:C2	25:DA:1386:C:C4	2.86	0.63
25:DA:2415:G:H2'	25:DA:2416:C:H6	1.63	0.63
25:DA:2746:U:C4	25:DA:2747:G:N7	2.66	0.63
25:DA:53:A:C8	25:DA:54:G:C8	2.87	0.63
34:DJ:17:VAL:HG23	34:DJ:137:PRO:CB	2.28	0.63
41:DQ:105:PHE:HA	41:DQ:108:LEU:HD12	1.79	0.63
25:DA:1156:A:C8	41:DQ:50:ARG:HG2	2.32	0.63
1:AA:144:G:C4	1:AA:179:A:C2	2.86	0.63
1:AA:646:G:O6	60:AA:1745:HOH:O	2.11	0.63
2:AB:147:LEU:HD22	2:AB:150:ILE:HG21	1.78	0.63
4:AD:34:GLU:O	4:AD:37:PRO:HD3	1.98	0.63
14:AN:12:ARG:O	14:AN:16:ALA:HB2	1.98	0.63
1:BA:1004:A:H2'	1:BA:1005:A:O4'	1.98	0.63
3:BC:5:HIS:CD2	14:BN:89:MET:HB3	2.33	0.63
6:BF:29:ILE:HG22	6:BF:34:GLY:O	1.98	0.63
14:BN:22:LYS:HG3	14:BN:23:ARG:N	2.11	0.63
15:BO:73:ASP:CG	15:BO:76:ARG:HG3	2.18	0.63
25:CA:102:U:C4	49:CY:2:LYS:HD2	2.32	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1038:G:O2'	25:CA:1039:A:H5'	1.97	0.63
25:CA:1080:A:H2'	25:CA:1080:A:N3	2.11	0.63
25:CA:179:C:H2'	25:CA:180:G:O5'	1.97	0.63
25:CA:2221:G:C2'	25:CA:2222:C:H5'	2.28	0.63
25:CA:615:U:C5	29:CE:35:TYR:CZ	2.86	0.63
25:DA:1356:G:N2	25:DA:1357:C:H1'	2.13	0.63
25:DA:1442:U:H2'	25:DA:1443:U:O5'	1.98	0.63
25:DA:1467:U:H2'	25:DA:1468:U:O5'	1.97	0.63
25:DA:2303:G:C2'	25:DA:2304:G:H5'	2.29	0.63
25:DA:2636:C:H2'	25:DA:2637:U:C6	2.34	0.63
33:DI:18:ASN:HB2	33:DI:38:CYS:HB3	1.79	0.63
33:DI:54:ILE:HA	33:DI:73:PRO:HA	1.78	0.63
36:DL:107:PHE:HD2	36:DL:107:PHE:N	1.94	0.63
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.34	0.63
1:AA:328:C:O2	1:AA:328:C:H2'	1.98	0.63
1:AA:452:A:C8	1:AA:452:A:H3'	2.33	0.63
2:AB:98:GLY:HA2	2:AB:101:THR:HB	1.80	0.63
7:AG:68:VAL:HG11	7:AG:133:ALA:HB3	1.78	0.63
8:AH:21:LYS:HE2	8:AH:21:LYS:HA	1.79	0.63
16:AP:80:LYS:HE3	16:AP:80:LYS:HA	1.81	0.63
1:BA:1489:G:H2'	1:BA:1490:U:H6	1.63	0.63
1:BA:1499:A:H2'	1:BA:1500:A:O5'	1.98	0.63
1:BA:462:G:H5''	1:BA:463:U:OP2	1.98	0.63
1:BA:736:C:H2'	1:BA:737:C:H6	1.62	0.63
1:BA:841:C:C6	1:BA:843:U:H5'	2.34	0.63
2:BB:156:LEU:HG	2:BB:157:PRO:O	1.98	0.63
3:BC:153:SER:HA	3:BC:164:THR:HA	1.79	0.63
10:BJ:48:ARG:O	10:BJ:49:PHE:CD2	2.51	0.63
1:BA:132:C:H5''	20:BT:68:LYS:CD	2.28	0.63
25:CA:1078:U:H1'	25:CA:1088:A:C2	2.33	0.63
25:CA:1722:A:N1	25:CA:1723:G:C2	2.66	0.63
25:CA:2888:C:H2'	25:CA:2889:C:C6	2.34	0.63
25:CA:374:A:C2	25:CA:401:A:C4	2.85	0.63
25:CA:47:C:H2'	25:CA:48:G:H5'	1.81	0.63
25:CA:1490:A:O2'	27:CC:97:ASP:OD2	2.16	0.63
25:DA:1323:C:H2'	25:DA:1324:G:O5'	1.98	0.63
25:DA:1857:G:C4	25:DA:1884:G:N2	2.66	0.63
25:DA:2096:C:H2'	25:DA:2097:A:H8	1.62	0.63
25:DA:858:G:O2'	25:DA:2268:A:H1'	1.98	0.63
25:DA:412:A:H2'	25:DA:413:C:H5'	1.79	0.63
25:DA:929:U:H1'	50:DZ:25:GLY:O	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DJ:16:TYR:HB3	34:DJ:140:LEU:HB2	1.80	0.63
34:DJ:59:ALA:O	34:DJ:62:VAL:HG12	1.98	0.63
44:DT:40:LYS:HG3	44:DT:60:THR:CG2	2.29	0.63
49:DY:16:THR:HG22	49:DY:17:GLU:N	2.14	0.63
25:DA:102:U:C2	49:DY:2:LYS:HE2	2.34	0.63
1:AA:1037:C:C2	1:AA:1038:C:C5	2.87	0.63
1:AA:626:G:C2'	1:AA:627:G:H5'	2.28	0.63
2:AB:53:LEU:HD12	2:AB:219:THR:CG2	2.29	0.63
8:AH:85:TYR:CE2	8:AH:123:GLU:HB2	2.34	0.63
8:AH:1:SER:C	8:AH:3:GLN:H	2.01	0.63
1:BA:1079:G:H2'	1:BA:1080:A:C8	2.34	0.63
1:BA:91:U:C4	1:BA:92:U:C5	2.86	0.63
2:BB:140:LEU:O	2:BB:144:GLU:N	2.32	0.63
4:BD:14:GLU:HA	4:BD:14:GLU:OE1	1.97	0.63
7:BG:34:LYS:CB	7:BG:37:THR:HG22	2.28	0.63
15:BO:80:LEU:HD11	15:BO:84:LEU:CD2	2.29	0.63
25:CA:60:G:O2'	25:CA:61:C:O5'	2.17	0.63
25:CA:707:G:O6	25:CA:724:U:O2	2.16	0.63
36:CL:93:ASN:O	36:CL:94:THR:CB	2.46	0.63
36:CL:93:ASN:O	36:CL:94:THR:HB	1.98	0.63
25:DA:1022:G:N2	25:DA:1142:A:C2	2.67	0.63
25:DA:1654:A:OP2	38:DN:1:MET:HA	1.98	0.63
25:DA:1735:A:C2	25:DA:1736:U:H1'	2.33	0.63
25:DA:2299:U:H2'	25:DA:2300:C:C6	2.33	0.63
25:DA:2567:G:H2'	25:DA:2568:U:C6	2.33	0.63
25:DA:406:G:H2'	25:DA:407:G:O4'	1.99	0.63
25:DA:714:U:H2'	25:DA:716:A:C8	2.34	0.63
25:DA:773:U:O2'	27:DC:47:ARG:HD3	1.99	0.63
56:DB:57:A:H1'	30:DF:26:GLN:HA	1.79	0.63
39:DO:100:HIS:CD2	39:DO:101:GLY:N	2.67	0.63
1:AA:11:G:H2'	1:AA:12:U:O5'	1.98	0.63
1:AA:636:U:H2'	1:AA:637:C:C6	2.33	0.63
3:AC:152:VAL:HG23	3:AC:156:LEU:HD21	1.81	0.63
3:AC:41:TYR:CE2	3:AC:45:GLU:CG	2.81	0.63
6:AF:47:LEU:HD13	6:AF:51:ILE:HG23	1.81	0.63
13:AM:19:THR:HA	13:AM:24:VAL:CG2	2.28	0.63
13:AM:5:GLY:C	13:AM:7:ASN:N	2.51	0.63
1:BA:135:C:H2'	1:BA:136:C:H5'	1.79	0.63
1:BA:1489:G:C5	1:BA:1490:U:C5	2.86	0.63
1:BA:459:A:H2'	1:BA:460:A:O4'	1.99	0.63
3:BC:6:PRO:O	3:BC:10:ARG:HG2	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:85:LYS:O	3:BC:88:LYS:HB3	1.98	0.63
9:BI:118:ARG:O	9:BI:119:LYS:HB3	1.98	0.63
15:BO:34:GLN:NE2	15:BO:38:LEU:HD22	2.14	0.63
17:BQ:14:ASP:N	17:BQ:16:MET:HE1	2.13	0.63
17:BQ:45:VAL:HG13	17:BQ:72:TRP:C	2.19	0.63
1:BA:132:C:H5''	20:BT:68:LYS:HD3	1.80	0.63
25:CA:1546:G:H5''	25:CA:1547:C:H5''	1.81	0.63
25:CA:2592:G:C2'	25:CA:2593:U:H5'	2.29	0.63
29:CE:131:THR:HG22	29:CE:160:ALA:HA	1.80	0.63
30:CF:56:LEU:HD13	30:CF:88:VAL:HG23	1.80	0.63
33:CI:20:SER:HA	33:CI:24:GLY:HA2	1.79	0.63
38:CN:103:ARG:NH1	38:CN:110:MET:CE	2.62	0.63
25:DA:1406:U:C2	25:DA:1407:G:C8	2.86	0.63
25:DA:2093:G:C6	25:DA:2225:A:C8	2.87	0.63
25:DA:582:A:C2	25:DA:1259:G:C2	2.87	0.63
25:DA:58:G:P	44:DT:78:SER:HG	2.22	0.63
31:DG:51:PHE:CE2	31:DG:68:ARG:HA	2.33	0.63
1:AA:1378:C:C2'	1:AA:1379:G:O5'	2.46	0.63
1:AA:148:G:H2'	1:AA:149:A:O5'	1.99	0.63
5:AE:45:VAL:O	5:AE:70:MET:HG3	1.99	0.63
7:AG:3:ARG:HG3	7:AG:4:ARG:N	2.13	0.63
13:AM:53:ASP:HA	13:AM:56:ARG:HB2	1.80	0.63
19:AS:12:LEU:O	19:AS:15:LEU:N	2.32	0.63
1:BA:1491:G:H2'	1:BA:1492:A:O4'	1.99	0.63
1:BA:686:U:O2	1:BA:687:A:C8	2.52	0.63
1:BA:687:A:C5	1:BA:701:U:H5	2.17	0.63
1:BA:991:U:H4'	1:BA:992:U:OP1	1.99	0.63
4:BD:47:LEU:HD23	4:BD:52:VAL:HG12	1.80	0.63
5:BE:14:LEU:HB3	5:BE:36:THR:HG22	1.80	0.63
9:BI:45:MET:HB2	9:BI:48:ARG:HB3	1.81	0.63
13:BM:3:ILE:O	13:BM:3:ILE:HG13	1.98	0.63
19:BS:62:THR:CB	19:BS:65:MET:HG3	2.27	0.63
20:BT:43:LYS:HD3	20:BT:86:ALA:HA	1.79	0.63
25:CA:819:A:C4	25:CA:1189:A:C2	2.87	0.63
31:CG:163:TYR:HB2	31:CG:166:GLU:HB2	1.79	0.63
25:DA:1457:U:H5''	25:DA:1458:U:OP1	1.99	0.63
25:DA:1520:U:H2'	25:DA:1521:G:H5'	1.80	0.63
25:DA:1526:C:N3	25:DA:1527:G:C4	2.66	0.63
25:DA:269:C:H2'	25:DA:270:A:H5'	1.81	0.63
56:DB:21:G:C4	56:DB:22:U:C6	2.86	0.63
31:DG:88:LEU:HD13	31:DG:88:LEU:N	2.14	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:72:GLN:O	44:DT:74:ILE:HG23	1.98	0.63
1:AA:1181:G:N1	1:AA:1182:G:N2	2.47	0.63
1:AA:976:G:C8	1:AA:1358:U:O2	2.51	0.63
1:AA:413:G:C6	4:AD:32:LYS:HD2	2.33	0.63
1:AA:632:U:H3'	1:AA:632:U:H6	1.63	0.63
13:AM:44:ILE:HA	13:AM:47:LEU:HB2	1.81	0.63
22:AV:21:A:C4	22:AV:48:C:C5	2.86	0.63
1:BA:146:G:C2	1:BA:177:G:N7	2.67	0.63
1:BA:585:G:N3	1:BA:879:C:H4'	2.13	0.63
1:BA:715:A:O2'	1:BA:716:A:H5'	1.98	0.63
1:BA:952:U:H2'	1:BA:953:G:C8	2.33	0.63
7:BG:78:ARG:HA	7:BG:82:SER:O	1.99	0.63
5:BE:155:LYS:HG2	8:BH:65:PHE:HB2	1.80	0.63
9:BI:9:GLY:N	9:BI:84:ARG:HD3	2.12	0.63
10:BJ:71:LEU:O	10:BJ:72:ARG:HG2	1.99	0.63
23:BX:11:U:H3'	23:BX:12:A:C5'	2.28	0.63
25:CA:1288:G:C4	25:CA:1327:A:C2	2.87	0.63
25:CA:1594:U:H2'	25:CA:1595:C:C6	2.34	0.63
25:CA:1621:U:H5''	25:CA:1622:G:OP1	1.99	0.63
25:CA:2174:C:O2'	25:CA:2175:C:H5'	1.98	0.63
25:CA:570:G:O6	60:CA:3694:HOH:O	2.14	0.63
1:AA:773:G:H4'	27:CC:201:LEU:HD21	1.78	0.63
34:CJ:80:HIS:O	34:CJ:82:GLY:N	2.31	0.63
35:CK:71:ARG:HB2	35:CK:75:SER:HB2	1.80	0.63
36:CL:2:ARG:O	36:CL:2:ARG:HG2	1.97	0.63
36:CL:4:ASN:O	36:CL:4:ASN:ND2	2.31	0.63
44:CT:38:ALA:HA	44:CT:42:GLU:OE1	1.98	0.63
25:DA:1474:U:H2'	25:DA:1475:G:H5'	1.81	0.63
25:DA:1873:G:H2'	25:DA:1874:C:C6	2.34	0.63
25:DA:1965:C:OP1	25:DA:1966:A:H2'	1.98	0.63
25:DA:2209:G:N2	25:DA:2216:G:C4	2.67	0.63
36:DL:119:PRO:HA	36:DL:138:ALA:O	1.99	0.63
37:DM:7:THR:HG21	37:DM:92:TRP:CH2	2.33	0.63
49:DY:21:LEU:HA	49:DY:25:GLN:HB3	1.79	0.63
1:AA:143:A:H5'	1:AA:144:G:C5'	2.28	0.63
1:AA:601:G:H2'	1:AA:602:A:C8	2.33	0.63
1:AA:609:A:H2'	1:AA:610:U:H5'	1.81	0.63
1:AA:960:U:C5	1:AA:1225:A:C8	2.86	0.63
3:AC:152:VAL:HG12	3:AC:197:VAL:HG22	1.81	0.63
4:AD:173:ASP:OD1	4:AD:176:LYS:HE2	1.98	0.63
4:AD:176:LYS:O	4:AD:177:MET:HB2	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:598:U:H4'	8:AH:85:TYR:HD1	1.58	0.63
8:AH:85:TYR:HD2	8:AH:123:GLU:HA	1.63	0.63
1:BA:1083:U:H5	1:BA:1084:G:C6	2.17	0.63
1:BA:1191:A:OP1	3:BC:3:LYS:HE3	1.97	0.63
1:BA:409:U:H2'	1:BA:410:G:O4'	1.99	0.63
1:BA:4:U:C4'	1:BA:5:U:OP1	2.46	0.63
2:BB:75:ALA:O	2:BB:79:VAL:HG23	1.98	0.63
3:BC:99:GLN:O	3:BC:100:ILE:HB	1.99	0.63
20:BT:82:ILE:HD12	20:BT:83:ASN:N	2.14	0.63
25:CA:1452:G:H2'	25:CA:1457:U:O4	1.99	0.63
25:CA:2133:G:O2'	25:CA:2158:A:N6	2.30	0.63
25:CA:276:U:H2'	25:CA:276:U:O2	1.97	0.63
27:CC:78:GLU:OE1	27:CC:100:ARG:NE	2.32	0.63
28:CD:150:GLN:O	28:CD:153:GLY:N	2.32	0.63
43:CS:29:VAL:O	43:CS:33:LEU:HD12	1.99	0.63
25:DA:1078:U:H4'	25:DA:1079:C:H5''	1.81	0.63
25:DA:1612:C:H2'	25:DA:1613:G:O5'	1.99	0.63
25:DA:2099:U:O2	25:DA:2100:G:C8	2.52	0.63
25:DA:2193:G:N3	25:DA:2194:U:C5	2.66	0.63
25:DA:2230:G:C4	25:DA:2231:U:C5	2.87	0.63
25:DA:2292:U:H2'	25:DA:2293:G:H8	1.63	0.63
25:DA:2514:U:H2'	25:DA:2515:C:C6	2.33	0.63
25:DA:612:G:O2'	25:DA:613:A:C8	2.51	0.63
29:DE:187:VAL:HG13	29:DE:187:VAL:O	1.98	0.63
32:DH:62:LEU:O	32:DH:65:ALA:HB3	1.99	0.63
1:AA:1444:U:O2	1:AA:1444:U:H2'	1.98	0.63
1:AA:481:G:OP1	1:AA:481:G:H4'	1.98	0.63
4:AD:78:ALA:HB1	4:AD:85:THR:O	1.98	0.63
9:AI:113:LYS:HE2	9:AI:117:LEU:O	1.98	0.63
1:BA:1275:A:C4	1:BA:1276:G:C8	2.87	0.63
1:BA:1438:G:O2'	1:BA:1439:G:H5'	1.99	0.63
1:BA:358:U:H2'	1:BA:359:G:C8	2.34	0.63
4:BD:58:GLN:O	4:BD:62:ARG:CG	2.47	0.63
5:BE:81:GLN:NE2	5:BE:149:PRO:HD3	2.14	0.63
7:BG:144:ALA:O	7:BG:145:GLU:HB2	1.99	0.63
12:BL:115:LYS:O	12:BL:116:TYR:CB	2.47	0.63
12:BL:51:VAL:CG2	12:BL:52:CYS:N	2.61	0.63
25:CA:1669:A:OP2	60:CA:3731:HOH:O	2.15	0.63
25:CA:179:C:C2'	25:CA:180:G:O5'	2.47	0.63
25:CA:271:G:C4'	25:CA:272:A:OP1	2.47	0.63
25:CA:947:A:O2'	25:CA:984:A:C2	2.51	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:42:ARG:HA	27:CC:47:ARG:O	1.99	0.63
31:CG:95:ALA:HB2	31:CG:104:LEU:HD23	1.81	0.63
32:CH:27:ARG:O	32:CH:28:ASN:CB	2.46	0.63
25:DA:1356:G:N3	25:DA:1357:C:C6	2.67	0.63
25:DA:2290:G:H4'	25:DA:2381:A:O2'	1.98	0.63
25:DA:600:G:H2'	25:DA:601:C:C6	2.34	0.63
30:DF:30:VAL:HG22	30:DF:95:MET:SD	2.39	0.63
37:DM:31:PHE:CE2	37:DM:110:GLU:HG3	2.34	0.63
37:DM:36:VAL:HG23	37:DM:128:THR:CA	2.29	0.63
38:DN:86:ARG:CD	38:DN:117:ASP:OD2	2.47	0.63
44:DT:57:VAL:HG22	44:DT:58:VAL:H	1.64	0.63
1:AA:209:U:C4'	1:AA:210:C:OP2	2.47	0.62
1:AA:399:G:H2'	1:AA:400:C:C6	2.34	0.62
1:AA:595:A:C6	1:AA:641:U:C6	2.87	0.62
1:AA:842:U:H2'	1:AA:842:U:O2	1.99	0.62
1:AA:880:C:OP2	12:AL:2:THR:HG21	1.99	0.62
4:AD:117:VAL:HA	4:AD:122:ILE:CD1	2.28	0.62
8:AH:64:TYR:HD2	8:AH:69:ALA:HA	1.63	0.62
5:AE:82:HIS:CD2	8:AH:95:MET:SD	2.92	0.62
1:BA:384:G:O2'	1:BA:385:C:H5'	1.99	0.62
1:BA:872:A:C4	1:BA:874:G:N7	2.67	0.62
1:BA:986:U:H1'	19:BS:53:GLY:O	1.99	0.62
3:BC:39:ARG:CZ	3:BC:54:ILE:HD11	2.29	0.62
3:BC:5:HIS:HB3	14:BN:89:MET:SD	2.39	0.62
4:BD:35:GLN:O	4:BD:36:ALA:HB2	1.99	0.62
6:BF:72:ASP:O	6:BF:76:THR:HG23	1.99	0.62
10:BJ:27:GLU:O	10:BJ:31:ARG:HB3	1.99	0.62
12:BL:24:GLU:HB2	12:BL:26:CYS:SG	2.39	0.62
13:BM:80:MET:O	13:BM:82:LEU:N	2.32	0.62
25:CA:246:C:C2'	25:CA:247:G:H5'	2.29	0.62
25:CA:535:G:C2'	25:CA:536:G:H5'	2.28	0.62
25:CA:846:U:O2	25:CA:846:U:H2'	1.98	0.62
25:CA:914:G:H5'	25:CA:915:C:OP2	1.99	0.62
26:CB:42:C:C5	26:CB:43:C:C5	2.87	0.62
29:CE:189:THR:CG2	29:CE:190:ALA:N	2.62	0.62
30:CF:120:SER:HB2	30:CF:127:TYR:CE1	2.34	0.62
33:CI:33:ASN:CB	33:CI:36:GLU:CG	2.76	0.62
25:DA:167:A:C2	25:DA:168:G:H1'	2.33	0.62
25:DA:172:A:H2'	25:DA:173:A:C8	2.33	0.62
25:DA:184:C:O2	25:DA:213:A:C2	2.52	0.62
25:DA:2201:G:C2	25:DA:2202:U:C2	2.87	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2328:A:H2'	25:DA:2329:U:C6	2.34	0.62
25:DA:370:G:O2'	25:DA:423:A:H3'	1.99	0.62
25:DA:910:A:N3	25:DA:2264:C:O2'	2.31	0.62
56:DB:54:G:N2	56:DB:55:U:H1'	2.14	0.62
56:DB:64:G:H2'	56:DB:65:U:C6	2.33	0.62
33:DI:9:LYS:HB3	33:DI:55:PRO:HB2	1.80	0.62
34:DJ:64:VAL:CG2	34:DJ:68:LYS:HB2	2.29	0.62
1:AA:407:U:C2	1:AA:408:A:C8	2.87	0.62
2:AB:14:HIS:HB2	2:AB:208:ALA:HB2	1.81	0.62
2:AB:48:MET:O	2:AB:52:ALA:HB2	1.98	0.62
6:AF:92:THR:O	6:AF:93:LYS:HG2	1.99	0.62
5:AE:82:HIS:HD2	8:AH:95:MET:SD	2.23	0.62
9:AI:5:TYR:HB3	9:AI:88:GLU:HG2	1.81	0.62
10:AJ:59:LYS:HD2	10:AJ:59:LYS:C	2.19	0.62
1:AA:501:C:OP1	12:AL:113:ARG:NH2	2.32	0.62
1:BA:1151:A:N3	1:BA:1152:A:C8	2.67	0.62
1:BA:978:A:P	1:BA:1362:A:H62	2.22	0.62
1:BA:1522:U:O2'	1:BA:1523:G:C5'	2.47	0.62
2:BB:89:PHE:CE1	2:BB:153:MET:HA	2.34	0.62
9:BI:79:ARG:NH2	9:BI:102:PHE:HA	2.14	0.62
19:BS:28:LYS:CB	19:BS:29:PRO:HD2	2.29	0.62
20:BT:35:TYR:CG	20:BT:36:ALA:N	2.62	0.62
25:CA:1179:G:C8	25:CA:1180:U:O4'	2.52	0.62
26:CB:48:U:O2'	26:CB:49:C:H5'	1.98	0.62
27:CC:268:ARG:HH11	27:CC:268:ARG:CG	2.11	0.62
32:CH:4:ILE:HG22	32:CH:5:LEU:N	2.13	0.62
33:CI:56:VAL:CG2	33:CI:70:THR:HA	2.29	0.62
33:CI:76:ALA:HA	33:CI:79:LEU:HD12	1.81	0.62
36:CL:19:LEU:HD22	36:CL:31:GLY:O	1.98	0.62
38:CN:103:ARG:HD3	38:CN:110:MET:HE2	1.79	0.62
42:CR:50:GLY:C	42:CR:51:VAL:O	2.34	0.62
25:DA:142:A:H2'	25:DA:143:C:C6	2.34	0.62
25:DA:1588:G:C2	25:DA:1589:U:C4	2.87	0.62
25:DA:2098:U:N3	25:DA:2099:U:C6	2.66	0.62
25:DA:22:C:H2'	25:DA:23:G:O5'	1.99	0.62
25:DA:2579:C:O5'	25:DA:2579:C:H6	1.83	0.62
25:DA:2700:A:H2'	25:DA:2701:U:C6	2.34	0.62
25:DA:2758:A:C5	25:DA:2759:G:C8	2.87	0.62
30:DF:13:LYS:O	30:DF:16:MET:HB2	1.99	0.62
57:DW:47:VAL:HG21	57:DW:76:ILE:O	1.99	0.62
1:AA:100:G:N7	1:AA:101:A:N7	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:224:U:H2'	1:AA:225:C:H6	1.65	0.62
1:AA:595:A:C6	1:AA:641:U:C5	2.87	0.62
1:AA:737:C:H2'	1:AA:738:C:H6	1.63	0.62
10:AJ:44:THR:CG2	10:AJ:70:HIS:HA	2.28	0.62
13:AM:76:ILE:CG2	13:AM:80:MET:CE	2.77	0.62
21:AU:36:PHE:HA	21:AU:39:LYS:HE2	1.80	0.62
1:BA:1265:C:N3	1:BA:1271:A:C2	2.67	0.62
1:BA:1277:C:H2'	1:BA:1277:C:O2	1.98	0.62
1:BA:769:G:H4'	1:BA:1513:A:H4'	1.79	0.62
1:BA:386:C:C2'	1:BA:387:U:H5'	2.28	0.62
1:BA:603:U:O2'	1:BA:604:G:H5'	1.99	0.62
1:BA:77:A:H2'	1:BA:78:A:O4'	1.99	0.62
2:BB:90:PHE:HD2	2:BB:149:GLY:HA3	1.63	0.62
3:BC:5:HIS:CE1	3:BC:183:TYR:CE2	2.87	0.62
10:BJ:35:GLN:HB2	10:BJ:78:GLU:HB3	1.81	0.62
25:CA:1420:A:N1	25:CA:2211:A:C2	2.67	0.62
25:CA:460:A:OP1	53:C2:41:ARG:NH1	2.32	0.62
25:CA:471:A:H8	25:CA:471:A:O5'	1.83	0.62
25:CA:602:A:C2	25:CA:656:G:C6	2.87	0.62
25:CA:649:G:H2'	25:CA:650:C:C6	2.34	0.62
27:CC:251:THR:HG22	27:CC:252:LYS:H	1.65	0.62
28:CD:4:LEU:HD23	28:CD:101:PHE:CE1	2.34	0.62
32:CH:2:GLN:C	32:CH:3:VAL:HG13	2.17	0.62
36:CL:96:LYS:HE2	36:CL:103:ILE:O	1.99	0.62
39:CO:54:VAL:O	39:CO:54:VAL:HG22	1.98	0.62
40:CP:13:LYS:HE3	40:CP:75:THR:O	1.99	0.62
25:DA:146:A:H2'	25:DA:147:C:C6	2.34	0.62
25:DA:2209:G:C6	25:DA:2210:U:C4	2.87	0.62
25:DA:347:A:C2	25:DA:348:A:C4	2.87	0.62
56:DB:35:C:C2'	56:DB:36:C:O5'	2.47	0.62
38:DN:58:ASP:O	38:DN:59:SER:HB3	1.99	0.62
1:AA:1041:G:H2'	1:AA:1042:A:C8	2.35	0.62
1:AA:1102:A:C2'	1:AA:1103:C:H5'	2.30	0.62
1:AA:1211:U:C2'	1:AA:1212:U:OP2	2.46	0.62
1:AA:1442:G:C2'	1:AA:1443:C:O5'	2.46	0.62
1:AA:1539:C:H5''	21:AU:17:ARG:CG	2.28	0.62
1:AA:189:A:N7	1:AA:190:A:C6	2.67	0.62
1:AA:412:A:H1'	1:AA:413:G:H5''	1.82	0.62
2:AB:118:THR:O	2:AB:119:GLN:CB	2.47	0.62
2:AB:133:ALA:O	2:AB:137:THR:HG23	1.99	0.62
2:AB:53:LEU:N	2:AB:53:LEU:HD22	2.14	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:49:ASP:O	4:AD:53:GLN:HB2	1.98	0.62
11:AK:126:ARG:N	21:AU:33:ARG:CZ	2.62	0.62
20:AT:4:LYS:O	20:AT:6:ALA:N	2.32	0.62
1:BA:1313:U:P	19:BS:5:LYS:HB3	2.39	0.62
1:BA:209:U:OP2	1:BA:210:C:C4	2.53	0.62
1:BA:721:G:H4'	1:BA:722:G:O4'	1.99	0.62
1:BA:840:C:C2	1:BA:842:U:H4'	2.34	0.62
1:BA:920:U:O4'	1:BA:1080:A:C2	2.53	0.62
1:BA:977:A:H2'	1:BA:977:A:N3	2.12	0.62
2:BB:212:TYR:O	2:BB:216:VAL:HG23	1.99	0.62
7:BG:144:ALA:O	7:BG:145:GLU:CB	2.47	0.62
1:BA:1227:A:OP2	13:BM:109:LYS:HE3	2.00	0.62
17:BQ:49:ASN:O	17:BQ:51:GLU:N	2.33	0.62
25:CA:1085:A:H2'	25:CA:1086:A:N3	2.13	0.62
25:CA:1142:A:N3	25:CA:1144:A:C8	2.67	0.62
25:CA:1435:G:O2'	25:CA:1436:G:H5'	1.99	0.62
25:CA:1482:G:N2	25:CA:1483:G:C4	2.67	0.62
25:CA:2110:G:O2'	25:CA:2120:G:H5'	1.99	0.62
25:CA:819:A:OP2	25:CA:1187:G:N2	2.32	0.62
27:CC:170:TYR:CE2	27:CC:184:GLU:HB3	2.34	0.62
32:CH:6:LEU:HD13	32:CH:37:VAL:HG12	1.81	0.62
33:CI:19:PRO:O	33:CI:23:VAL:HG23	1.99	0.62
50:CZ:2:LYS:H	50:CZ:2:LYS:CD	2.11	0.62
25:DA:1152:C:H3'	60:DA:3363:HOH:O	1.99	0.62
25:DA:140:C:H4'	25:DA:141:G:N2	2.14	0.62
25:DA:1456:G:C5	25:DA:1457:U:C5	2.87	0.62
25:DA:1871:A:O2'	25:DA:1872:A:C8	2.53	0.62
25:DA:2166:U:C5	25:DA:2167:U:C5	2.86	0.62
25:DA:2213:U:H4'	25:DA:2214:C:OP2	1.98	0.62
25:DA:2377:A:C2'	25:DA:2378:A:H5'	2.28	0.62
25:DA:2782:G:N2	25:DA:2783:U:C2	2.68	0.62
25:DA:541:A:H2'	25:DA:542:C:O4'	1.99	0.62
25:DA:56:A:H2'	25:DA:57:C:O5'	1.98	0.62
28:DD:85:ALA:O	28:DD:86:GLU:HB3	2.00	0.62
1:AA:214:C:O2'	1:AA:215:C:H5'	1.99	0.62
1:AA:25:C:C5	1:AA:558:G:N2	2.68	0.62
2:AB:63:LYS:HD3	2:AB:64:GLY:N	2.14	0.62
5:AE:132:PRO:O	5:AE:134:ASN:N	2.33	0.62
13:AM:9:PRO:O	13:AM:10:ASP:CB	2.48	0.62
22:AV:17:C:C6	22:AV:17:C:H3'	2.35	0.62
1:BA:977:A:C2	1:BA:1224:U:C4	2.87	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:214:C:H2'	1:BA:215:C:C6	2.34	0.62
1:BA:572:A:H5'	1:BA:573:A:P	2.39	0.62
2:BB:17:HIS:CD2	2:BB:202:ASN:ND2	2.68	0.62
3:BC:35:ASP:O	3:BC:38:VAL:HG22	1.98	0.62
25:CA:1061:U:C2	33:CI:9:LYS:HB2	2.34	0.62
25:CA:1501:G:O2'	25:CA:1502:A:H5'	1.98	0.62
25:CA:1536:C:H4'	25:CA:1537:G:H5''	1.80	0.62
25:CA:574:A:H4'	25:CA:575:A:O5'	1.99	0.62
30:CF:113:PHE:CZ	30:CF:115:GLY:HA2	2.33	0.62
32:CH:37:VAL:HG23	32:CH:38:PRO:HD2	1.80	0.62
44:CT:2:ILE:CA	44:CT:3:ARG:HB2	2.30	0.62
25:DA:160:A:C8	25:DA:167:A:C6	2.87	0.62
25:DA:1746:A:C4	25:DA:1747:U:C5	2.88	0.62
25:DA:2109:U:H5''	25:DA:2110:G:OP2	1.99	0.62
25:DA:223:A:C4	25:DA:422:A:C8	2.87	0.62
25:DA:2403:C:H2'	25:DA:2404:U:H6	1.64	0.62
27:DC:16:VAL:N	27:DC:203:VAL:CG2	2.62	0.62
33:DI:28:GLY:HA2	33:DI:32:VAL:HB	1.81	0.62
44:DT:89:GLU:O	44:DT:91:GLN:NE2	2.32	0.62
1:AA:1210:C:O4'	1:AA:1214:C:C5	2.53	0.62
1:AA:973:G:H1'	10:AJ:56:HIS:HD2	1.64	0.62
8:AH:6:ILE:O	8:AH:10:LEU:HD23	1.99	0.62
10:AJ:57:VAL:HG22	10:AJ:58:ASN:H	1.65	0.62
21:AU:24:LYS:CD	21:AU:25:ALA:N	2.63	0.62
1:BA:1165:U:H2'	1:BA:1166:G:O4'	1.98	0.62
1:BA:1476:A:H2'	1:BA:1477:U:H6	1.65	0.62
1:BA:4:U:H4'	1:BA:5:U:OP1	2.00	0.62
1:BA:525:C:C2'	1:BA:526:C:H5'	2.30	0.62
2:BB:141:GLU:HA	2:BB:144:GLU:HB2	1.80	0.62
3:BC:41:TYR:CZ	3:BC:45:GLU:CG	2.83	0.62
1:BA:1347:G:H8	9:BI:108:ARG:HB3	1.64	0.62
16:BP:38:PHE:CZ	16:BP:51:ARG:HB2	2.35	0.62
17:BQ:44:HIS:CG	17:BQ:69:THR:HG21	2.35	0.62
25:CA:1059:G:H5''	25:CA:1060:U:H3'	1.81	0.62
28:CD:103:ASP:C	28:CD:103:ASP:OD1	2.38	0.62
25:CA:1997:C:OP2	28:CD:129:THR:HB	2.00	0.62
30:CF:4:HIS:O	30:CF:7:TYR:HB3	1.99	0.62
30:CF:73:VAL:HG22	30:CF:78:ILE:HD11	1.81	0.62
33:CI:46:ASP:HA	33:CI:50:LYS:HD2	1.80	0.62
34:CJ:77:HIS:CD2	34:CJ:79:GLY:H	2.16	0.62
36:CL:87:GLY:O	36:CL:89:VAL:HG12	2.00	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CR:39:LEU:HA	42:CR:49:ILE:HG23	1.81	0.62
45:CU:6:ARG:O	45:CU:7:ASP:C	2.38	0.62
48:CX:10:ARG:HB2	48:CX:11:PRO:CD	2.29	0.62
49:CY:17:GLU:O	49:CY:18:LEU:C	2.35	0.62
25:DA:1417:C:N3	25:DA:1581:G:O6	2.33	0.62
25:DA:1712:U:C4	25:DA:1713:A:C5	2.87	0.62
25:DA:2768:U:C2'	25:DA:2769:U:O5'	2.47	0.62
27:DC:73:ILE:O	27:DC:116:GLN:HG3	2.00	0.62
28:DD:25:THR:HG21	28:DD:193:VAL:HG22	1.82	0.62
31:DG:173:ALA:O	31:DG:174:LYS:O	2.16	0.62
32:DH:116:ARG:HD2	32:DH:133:GLN:HG2	1.79	0.62
33:DI:56:VAL:HG22	33:DI:57:VAL:N	2.15	0.62
39:DO:49:VAL:HG21	39:DO:82:ALA:HA	1.82	0.62
44:DT:69:ARG:HB3	44:DT:69:ARG:NH1	2.14	0.62
45:DU:94:PHE:HA	45:DU:102:ILE:HD12	1.81	0.62
1:AA:1034:G:H2'	1:AA:1035:A:O4'	2.00	0.62
1:AA:1125:U:C5	1:AA:1127:G:C6	2.88	0.62
1:AA:997:U:C2'	1:AA:998:C:H5'	2.29	0.62
3:AC:120:THR:HG22	3:AC:121:SER:N	2.14	0.62
4:AD:62:ARG:HE	4:AD:62:ARG:HA	1.65	0.62
6:AF:17:GLN:O	6:AF:18:VAL:C	2.38	0.62
24:AY:7:ARG:HD3	24:AY:160:ASP:OD2	2.00	0.62
1:BA:70:U:C2	1:BA:94:G:N7	2.68	0.62
1:BA:940:C:H2'	1:BA:941:G:H8	1.64	0.62
3:BC:54:ILE:CD1	3:BC:56:ILE:CD1	2.78	0.62
17:BQ:11:VAL:HG12	17:BQ:12:VAL:N	2.14	0.62
25:CA:1482:G:C2	25:CA:1483:G:C8	2.87	0.62
25:CA:2681:C:OP2	28:CD:114:LYS:CE	2.47	0.62
33:CI:17:ALA:O	33:CI:18:ASN:HB2	1.98	0.62
34:CJ:81:ILE:HG12	34:CJ:82:GLY:CA	2.29	0.62
36:CL:2:ARG:HA	36:CL:5:THR:HG21	1.82	0.62
37:CM:135:VAL:O	37:CM:136:MET:O	2.17	0.62
25:DA:215:G:H4'	25:DA:216:A:H4'	1.82	0.62
25:DA:2294:G:N2	25:DA:2295:C:H1'	2.15	0.62
25:DA:2517:C:C6	25:DA:2542:A:N7	2.67	0.62
25:DA:2849:U:H4'	25:DA:2868:A:C2	2.34	0.62
56:DB:60:C:C2'	56:DB:61:G:H5'	2.30	0.62
56:DB:77:U:H2'	56:DB:78:A:C5'	2.29	0.62
27:DC:16:VAL:HB	27:DC:203:VAL:HG22	1.81	0.62
32:DH:4:ILE:HG23	32:DH:17:ASP:C	2.20	0.62
35:DK:35:VAL:HG22	35:DK:69:VAL:HG12	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:32:LEU:O	44:DT:34:VAL:HG13	1.99	0.62
44:DT:7:LEU:CD2	44:DT:46:ALA:HB2	2.29	0.62
48:DX:53:LYS:HG2	48:DX:54:GLY:N	2.14	0.62
1:AA:1057:G:C2'	1:AA:1058:G:O5'	2.48	0.62
1:AA:1060:U:H5''	10:AJ:53:ILE:CG2	2.30	0.62
4:AD:54:LEU:HD23	4:AD:55:ARG:N	2.15	0.62
9:AI:14:SER:HA	9:AI:68:GLY:O	1.99	0.62
16:AP:51:ARG:CG	16:AP:51:ARG:HH11	2.13	0.62
20:AT:70:LYS:HG3	20:AT:74:HIS:CD2	2.35	0.62
24:AY:110:ARG:O	24:AY:111:ARG:C	2.37	0.62
1:BA:105:G:H2'	1:BA:106:C:C6	2.35	0.62
1:BA:1234:C:H2'	1:BA:1235:U:H5'	1.82	0.62
1:BA:1469:C:H2'	1:BA:1470:U:O4'	2.00	0.62
1:BA:1522:U:C2'	1:BA:1523:G:O5'	2.47	0.62
1:BA:211:G:H21	1:BA:212:G:H1'	1.63	0.62
1:BA:612:C:H2'	1:BA:613:C:H6	1.64	0.62
2:BB:99:MET:HA	2:BB:106:VAL:HG21	1.82	0.62
11:BK:22:ILE:O	11:BK:22:ILE:HG13	2.00	0.62
14:BN:35:ALA:CB	14:BN:41:ARG:HG3	2.30	0.62
25:CA:880:G:C6	25:CA:881:G:N7	2.67	0.62
27:CC:42:ARG:HH11	27:CC:42:ARG:HG3	1.63	0.62
31:CG:37:ASN:O	31:CG:38:ASP:HB2	1.99	0.62
33:CI:33:ASN:HB3	33:CI:36:GLU:H	1.63	0.62
33:CI:5:GLN:O	33:CI:6:ALA:HB3	2.00	0.62
41:CQ:20:ALA:HB2	41:CQ:38:VAL:CG2	2.29	0.62
41:CQ:57:ARG:HA	41:CQ:60:TRP:CE3	2.34	0.62
25:DA:1018:U:N3	25:DA:1019:U:C5	2.67	0.62
25:DA:1023:U:H2'	25:DA:1024:G:H5'	1.80	0.62
25:DA:1085:A:C5	25:DA:1086:A:N6	2.68	0.62
25:DA:1435:G:H2'	25:DA:1436:G:H5'	1.81	0.62
25:DA:1883:U:C2'	25:DA:1884:G:O5'	2.48	0.62
25:DA:2063:C:O2	25:DA:2450:A:N1	2.32	0.62
25:DA:260:G:C5	25:DA:261:G:C8	2.88	0.62
25:DA:693:A:H2'	25:DA:694:U:O5'	1.99	0.62
25:DA:2305:U:C4	30:DF:151:LEU:HA	2.35	0.62
32:DH:50:ARG:HA	32:DH:50:ARG:NH1	2.15	0.62
44:DT:49:LYS:HB2	44:DT:50:LEU:CD1	2.29	0.62
50:DZ:3:THR:HG21	50:DZ:36:GLU:OE1	2.00	0.62
1:AA:1305:G:O2'	1:AA:1306:A:C8	2.53	0.62
1:AA:274:A:H5'	17:AQ:15:LYS:CE	2.30	0.62
1:AA:451:A:O4'	1:AA:452:A:C2	2.53	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:841:C:H5'	1:AA:843:U:OP2	1.99	0.62
1:AA:999:C:H2'	1:AA:1000:A:C8	2.35	0.62
5:AE:89:THR:HG22	5:AE:90:GLY:H	1.65	0.62
6:AF:8:PHE:CE1	6:AF:60:VAL:HB	2.35	0.62
8:AH:82:LEU:HD13	8:AH:84:ILE:HD11	1.82	0.62
9:AI:105:ARG:NH1	9:AI:107:ALA:HA	2.15	0.62
11:AK:34:THR:HA	11:AK:40:ALA:HA	1.81	0.62
11:AK:85:VAL:HG12	11:AK:92:ARG:NH1	2.15	0.62
14:AN:41:ARG:HG3	14:AN:42:TRP:CD2	2.34	0.62
20:AT:54:GLN:HB3	20:AT:55:PRO:CD	2.29	0.62
22:AV:62:C:C2	22:AV:63:G:C8	2.88	0.62
24:AY:146:ASP:O	24:AY:148:GLU:N	2.32	0.62
1:BA:102:G:H2'	1:BA:103:U:H6	1.64	0.62
1:BA:1053:G:H4'	1:BA:1054:C:C5'	2.17	0.62
1:BA:1182:G:H4'	1:BA:1183:U:H5''	1.82	0.62
1:BA:1263:C:H2'	1:BA:1264:U:C6	2.35	0.62
1:BA:1342:C:H2'	1:BA:1343:G:C8	2.34	0.62
1:BA:1534:A:H4'	1:BA:1535:C:H2'	1.82	0.62
1:BA:488:C:H2'	1:BA:489:C:H6	1.65	0.62
1:BA:501:C:H2'	1:BA:502:A:H8	1.65	0.62
4:BD:72:ARG:HD3	4:BD:203:TYR:CE2	2.35	0.62
6:BF:18:VAL:HA	6:BF:21:MET:HE2	1.81	0.62
7:BG:8:GLN:HG3	7:BG:8:GLN:O	1.98	0.62
8:BH:1:SER:HB2	8:BH:3:GLN:HE21	1.64	0.62
9:BI:18:VAL:HG12	9:BI:85:ALA:HB2	1.82	0.62
13:BM:18:LEU:HG	13:BM:33:LEU:HD21	1.80	0.62
53:C2:12:ARG:HD2	53:C2:44:VAL:HG11	1.80	0.62
25:CA:274:C:H2'	25:CA:275:C:O4'	2.00	0.62
25:CA:362:A:N3	25:CA:362:A:H2'	2.15	0.62
25:CA:878:A:H5'	25:CA:879:G:OP2	2.00	0.62
31:CG:114:HIS:CD2	31:CG:147:LEU:HD21	2.35	0.62
31:CG:173:ALA:O	31:CG:174:LYS:HB3	1.99	0.62
49:CY:56:LEU:O	49:CY:57:LEU:HB3	2.00	0.62
52:D1:8:ILE:HD12	52:D1:10:LEU:HD21	1.81	0.62
25:DA:1018:U:O2'	25:DA:1019:U:H5'	2.00	0.62
25:DA:1824:G:C2'	25:DA:1825:U:H5'	2.30	0.62
25:DA:528:A:C3'	25:DA:528:A:C8	2.82	0.62
27:DC:124:LYS:HB2	27:DC:125:PRO:HD2	1.82	0.62
31:DG:5:LYS:O	31:DG:6:ALA:HB2	1.99	0.62
32:DH:2:GLN:HB2	32:DH:39:ALA:HB3	1.81	0.62
42:DR:27:ILE:HG21	42:DR:33:VAL:CG1	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:40:C:H2'	1:AA:41:G:O4'	2.00	0.62
1:AA:459:A:C2'	1:AA:460:A:O4'	2.46	0.62
1:AA:943:U:H2'	1:AA:944:G:H5'	1.81	0.62
2:AB:215:ALA:O	2:AB:219:THR:CG2	2.47	0.62
2:AB:60:ALA:HA	2:AB:64:GLY:N	2.14	0.62
4:AD:124:VAL:HG23	4:AD:125:ASN:N	2.15	0.62
4:AD:24:VAL:HG12	4:AD:25:ARG:N	2.15	0.62
5:AE:155:LYS:HA	8:AH:65:PHE:CD2	2.35	0.62
7:AG:39:GLU:HA	7:AG:42:VAL:HG22	1.82	0.62
12:AL:49:ARG:CB	12:AL:89:LEU:HD21	2.29	0.62
19:AS:50:VAL:HG12	19:AS:51:HIS:O	2.00	0.62
1:BA:1028:C:H2'	1:BA:1028:C:O2	1.98	0.62
1:BA:1034:G:H2'	1:BA:1035:A:C8	2.35	0.62
1:BA:1298:U:H4'	1:BA:1299:A:C4	2.34	0.62
1:BA:1505:G:H4'	1:BA:1506:U:H5''	1.82	0.62
1:BA:785:G:H2'	1:BA:786:G:H5'	1.81	0.62
2:BB:101:THR:HA	2:BB:178:LEU:HD21	1.82	0.62
5:BE:80:LEU:HA	5:BE:146:MET:HE1	1.82	0.62
6:BF:7:VAL:HA	6:BF:60:VAL:O	2.00	0.62
7:BG:44:SER:O	7:BG:48:THR:HG23	2.00	0.62
1:BA:237:G:OP1	17:BQ:41:THR:HG23	2.00	0.62
21:BU:10:PRO:O	21:BU:11:PHE:CD2	2.53	0.62
25:CA:108:G:C2'	25:CA:109:C:H5'	2.30	0.62
25:CA:947:A:O2'	25:CA:984:A:H2	1.82	0.62
28:CD:26:VAL:HG12	28:CD:186:LEU:HD13	1.82	0.62
32:CH:34:GLY:O	32:CH:35:LYS:HG3	2.00	0.62
36:CL:90:VAL:HG23	36:CL:120:VAL:CG2	2.30	0.62
40:CP:102:ARG:HG2	40:CP:102:ARG:HH11	1.64	0.62
42:CR:28:ALA:HB3	42:CR:31:GLU:HG3	1.80	0.62
45:CU:98:ASN:O	45:CU:100:GLU:N	2.32	0.62
25:DA:1060:U:O4'	25:DA:1062:G:H5'	1.99	0.62
25:DA:1433:A:H5''	25:DA:1434:A:OP2	1.99	0.62
25:DA:2235:G:H2'	25:DA:2236:U:O4'	1.99	0.62
25:DA:729:G:H4'	25:DA:763:G:C5'	2.30	0.62
32:DH:145:ASN:N	32:DH:145:ASN:OD1	2.31	0.62
34:DJ:17:VAL:HG23	34:DJ:137:PRO:HB2	1.80	0.62
49:DY:24:GLU:O	49:DY:25:GLN:C	2.39	0.62
1:AA:1023:U:H2'	1:AA:1024:G:O4'	2.00	0.61
1:AA:164:G:H2'	1:AA:165:G:H5'	1.81	0.61
1:AA:868:C:C2'	1:AA:869:G:H5'	2.30	0.61
4:AD:2:ARG:CZ	4:AD:114:ARG:HD3	2.30	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:156:ALA:O	4:AD:159:GLU:HB3	2.00	0.61
10:AJ:80:THR:O	10:AJ:83:THR:HG22	2.00	0.61
19:AS:12:LEU:O	19:AS:14:LEU:N	2.32	0.61
1:BA:100:G:C8	1:BA:101:A:N7	2.68	0.61
1:BA:934:C:C6	1:BA:1344:C:C5	2.88	0.61
1:BA:471:U:O2'	1:BA:472:U:H5'	2.00	0.61
2:BB:58:LYS:HA	2:BB:61:SER:HB2	1.82	0.61
4:BD:77:GLU:OE1	4:BD:77:GLU:HA	1.99	0.61
9:BI:49:GLN:N	9:BI:50:PRO:HD2	2.15	0.61
9:BI:56:MET:SD	9:BI:56:MET:N	2.73	0.61
9:BI:5:TYR:HB2	9:BI:20:ILE:HB	1.81	0.61
14:BN:24:ALA:O	14:BN:27:LYS:CG	2.47	0.61
16:BP:41:PRO:O	16:BP:42:ILE:HD13	2.00	0.61
25:CA:1410:G:H2'	25:CA:1411:U:C6	2.35	0.61
25:CA:2173:A:H2'	25:CA:2174:C:C6	2.35	0.61
25:CA:798:G:O6	60:CA:3322:HOH:O	2.14	0.61
25:CA:978:G:H2'	25:CA:979:A:H5'	1.80	0.61
32:CH:72:ILE:HG21	32:CH:140:ALA:HB1	1.82	0.61
33:CI:66:PHE:CD2	33:CI:66:PHE:N	2.68	0.61
36:CL:75:ALA:HB2	36:CL:105:ILE:HD12	1.82	0.61
37:CM:31:PHE:CZ	37:CM:110:GLU:HB2	2.35	0.61
48:CX:17:ARG:CZ	48:CX:23:ALA:HB2	2.30	0.61
25:DA:1301:A:N3	25:DA:1301:A:H2'	2.15	0.61
25:DA:1356:G:C2	25:DA:1357:C:N1	2.68	0.61
25:DA:2897:U:H2'	25:DA:2898:U:C6	2.35	0.61
25:DA:627:A:C6	25:DA:637:A:C8	2.88	0.61
30:DF:116:LEU:HD23	30:DF:175:PRO:HB2	1.81	0.61
30:DF:21:TYR:CD1	30:DF:26:GLN:HG2	2.35	0.61
25:DA:1095:A:N1	33:DI:29:GLN:HG2	2.15	0.61
39:DO:33:ARG:O	39:DO:34:HIS:HB2	2.00	0.61
45:DU:98:ASN:OD1	45:DU:98:ASN:O	2.17	0.61
1:AA:1233:G:C6	1:AA:1234:C:C4	2.88	0.61
1:AA:258:G:N2	1:AA:259:G:H1'	2.14	0.61
1:AA:511:C:H1'	1:AA:512:U:H6	1.65	0.61
1:AA:595:A:C5	1:AA:641:U:C5	2.88	0.61
4:AD:115:GLN:NE2	4:AD:119:HIS:CE1	2.68	0.61
6:AF:46:GLN:HB2	6:AF:56:LYS:HE3	1.82	0.61
6:AF:86:ARG:CG	6:AF:86:ARG:HH11	2.13	0.61
9:AI:29:ILE:HD11	9:AI:37:TYR:CD2	2.35	0.61
11:AK:52:ARG:NH2	11:AK:56:LYS:HE2	2.14	0.61
19:AS:8:PRO:HB2	19:AS:40:PHE:HZ	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:436:C:C2	1:BA:437:U:C5	2.88	0.61
1:BA:78:A:C6	1:BA:79:G:C6	2.87	0.61
2:BB:67:LEU:HB3	2:BB:160:LEU:HD12	1.82	0.61
4:BD:55:ARG:NH1	4:BD:55:ARG:HA	2.14	0.61
8:BH:65:PHE:CD1	8:BH:65:PHE:C	2.72	0.61
12:BL:86:VAL:HG11	12:BL:89:LEU:HD22	1.82	0.61
13:BM:9:PRO:O	13:BM:10:ASP:CB	2.48	0.61
21:BU:9:GLU:HG2	21:BU:10:PRO:HD3	1.82	0.61
25:CA:1731:G:C6	25:CA:1733:G:C5	2.88	0.61
25:CA:1784:A:H4'	25:CA:1785:A:O5'	2.00	0.61
24:AY:133:ARG:NH2	25:CA:1942:C:O4'	2.33	0.61
25:CA:2056:G:H2'	25:CA:2056:G:N3	2.14	0.61
25:CA:2902:C:C4	25:CA:2903:U:O4	2.53	0.61
27:CC:229:HIS:CD2	27:CC:246:PRO:HB3	2.35	0.61
34:CJ:69:ARG:O	34:CJ:90:GLU:HB3	1.99	0.61
38:CN:103:ARG:CD	38:CN:110:MET:HE2	2.31	0.61
39:CO:117:PHE:C	39:CO:117:PHE:CD1	2.73	0.61
51:D0:52:LYS:CE	51:D0:55:ALA:HA	2.31	0.61
51:D0:52:LYS:HE3	51:D0:55:ALA:HA	1.81	0.61
51:D0:52:LYS:NZ	51:D0:55:ALA:HA	2.15	0.61
25:DA:2195:U:H2'	25:DA:2196:C:H6	1.64	0.61
25:DA:833:A:OP1	36:DL:39:LYS:HE2	2.01	0.61
27:DC:93:VAL:HG11	27:DC:103:ILE:HD11	1.81	0.61
30:DF:7:TYR:HA	30:DF:11:VAL:CG2	2.30	0.61
32:DH:62:LEU:HD23	32:DH:135:HIS:CE1	2.36	0.61
33:DI:121:ILE:HA	33:DI:124:MET:SD	2.40	0.61
33:DI:72:THR:HB	33:DI:73:PRO:HD2	1.81	0.61
38:DN:24:MET:HB3	38:DN:44:LEU:HD13	1.81	0.61
39:DO:56:LYS:CG	39:DO:57:ALA:N	2.63	0.61
40:DP:38:ARG:CG	40:DP:39:LEU:H	2.13	0.61
44:DT:1:MET:O	44:DT:2:ILE:HG13	2.00	0.61
44:DT:44:LYS:HG3	44:DT:55:VAL:HG11	1.81	0.61
45:DU:40:LEU:CD2	45:DU:61:GLU:HG3	2.30	0.61
46:DV:9:ARG:HG2	46:DV:41:GLU:HB3	1.82	0.61
1:AA:1527:U:H2'	1:AA:1528:U:C6	2.35	0.61
3:AC:155:ARG:H	3:AC:162:ALA:HA	1.65	0.61
7:AG:21:LEU:HD11	7:AG:61:PHE:CZ	2.36	0.61
11:AK:87:GLY:H	11:AK:113:THR:HG22	1.66	0.61
13:AM:74:MET:SD	30:CF:111:ARG:HB3	2.40	0.61
13:AM:76:ILE:HG23	13:AM:80:MET:HE1	1.80	0.61
1:BA:1067:A:H4'	1:BA:1068:G:O5'	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:412:A:C2	1:BA:414:A:H1'	2.34	0.61
4:BD:160:LEU:HD22	4:BD:161:ALA:H	1.63	0.61
6:BF:1:MET:HE1	6:BF:67:PRO:HB3	1.83	0.61
6:BF:24:ARG:O	6:BF:27:ALA:HB3	2.00	0.61
6:BF:3:HIS:H	6:BF:92:THR:HG23	1.64	0.61
1:BA:644:U:H5'	8:BH:83:ARG:HH12	1.64	0.61
11:BK:21:HIS:CE1	11:BK:34:THR:HG21	2.34	0.61
12:BL:89:LEU:HB2	12:BL:92:VAL:CG2	2.29	0.61
51:C0:22:THR:O	51:C0:22:THR:HG23	2.01	0.61
25:CA:1547:C:C5'	25:CA:1547:C:H6	2.12	0.61
25:CA:1658:C:P	60:CA:3660:HOH:O	2.56	0.61
28:CD:33:ARG:NH2	28:CD:74:GLU:O	2.33	0.61
33:CI:38:CYS:HB3	33:CI:42:ASN:HD22	1.64	0.61
35:CK:13:ASN:HD22	35:CK:98:ARG:HB2	1.65	0.61
45:CU:39:ASN:HB3	45:CU:62:ALA:HB3	1.81	0.61
25:DA:1412:U:H2'	25:DA:1413:A:H8	1.63	0.61
25:DA:1651:G:H5'	38:DN:39:PRO:HG2	1.81	0.61
25:DA:2790:U:H4'	25:DA:2791:G:OP1	1.99	0.61
28:DD:140:HIS:NE2	60:DD:303:HOH:O	2.30	0.61
30:DF:33:ILE:HD11	30:DF:155:ILE:HG23	1.83	0.61
30:DF:33:ILE:O	30:DF:90:LEU:HB2	2.00	0.61
32:DH:4:ILE:HG23	32:DH:17:ASP:N	2.16	0.61
25:DA:335:C:H5''	45:DU:81:ARG:HD3	1.82	0.61
57:DW:10:ARG:O	57:DW:11:ASP:HB2	1.98	0.61
1:AA:1213:A:C5	1:AA:1215:G:C4	2.87	0.61
1:AA:429:U:H3'	4:AD:8:LEU:HD23	1.82	0.61
1:AA:8:A:C6	4:AD:205:LYS:HB3	2.35	0.61
4:AD:190:LEU:HD12	4:AD:190:LEU:O	2.00	0.61
4:AD:3:TYR:C	4:AD:3:TYR:CD1	2.71	0.61
6:AF:5:GLU:HB3	6:AF:90:MET:HB2	1.83	0.61
15:AO:41:HIS:CD2	15:AO:42:PHE:CE2	2.88	0.61
17:AQ:13:SER:CB	17:AQ:21:VAL:CG1	2.79	0.61
17:AQ:45:VAL:HG11	17:AQ:60:ILE:HG13	1.83	0.61
1:BA:1298:U:H4'	1:BA:1299:A:N9	2.16	0.61
1:BA:1486:G:H2'	1:BA:1487:G:O4'	1.99	0.61
1:BA:1410:A:C2	1:BA:1491:G:C2	2.88	0.61
1:BA:1493:A:H8	1:BA:1493:A:OP2	1.84	0.61
1:BA:1534:A:C4'	1:BA:1535:C:OP1	2.47	0.61
1:BA:861:G:C5	1:BA:862:C:C5	2.87	0.61
7:BG:39:GLU:HB2	7:BG:43:TYR:HE2	1.64	0.61
8:BH:64:TYR:CD1	8:BH:64:TYR:N	2.69	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:65:PHE:O	8:BH:66:GLN:O	2.19	0.61
20:BT:63:LYS:HA	20:BT:63:LYS:HE3	1.82	0.61
25:CA:1372:U:C2'	25:CA:1373:A:O5'	2.48	0.61
25:CA:1494:A:N1	25:CA:1495:A:C2	2.68	0.61
25:CA:2492:U:C2'	25:CA:2493:U:H5'	2.30	0.61
25:CA:280:U:H2'	25:CA:281:C:O4'	2.01	0.61
25:CA:404:A:C1'	25:CA:405:U:OP2	2.47	0.61
25:CA:417:C:H2'	25:CA:418:C:O5'	2.00	0.61
27:CC:159:THR:H	27:CC:194:VAL:CG1	2.13	0.61
35:CK:91:SER:O	35:CK:93:GLN:HG2	2.00	0.61
40:CP:62:LYS:HE3	40:CP:64:SER:HB2	1.82	0.61
54:D3:15:LYS:HE2	54:D3:19:GLY:HA2	1.80	0.61
25:DA:1059:G:N1	25:DA:1080:A:C2	2.68	0.61
25:DA:1056:G:H4'	25:DA:1086:A:C8	2.35	0.61
25:DA:1094:U:H2'	25:DA:1096:A:OP2	2.01	0.61
25:DA:2209:G:N2	25:DA:2216:G:N3	2.48	0.61
25:DA:2207:C:C2	25:DA:2218:G:C2	2.88	0.61
25:DA:277:G:N3	25:DA:277:G:H3'	2.16	0.61
25:DA:2862:G:H2'	25:DA:2863:C:H6	1.66	0.61
25:DA:2690:U:C5	25:DA:2873:A:N1	2.68	0.61
25:DA:301:G:H5'	25:DA:317:G:N2	2.15	0.61
27:DC:265:PHE:N	27:DC:265:PHE:CD1	2.68	0.61
27:DC:60:ALA:O	27:DC:62:ARG:NH2	2.33	0.61
30:DF:34:THR:HA	30:DF:88:VAL:O	2.00	0.61
30:DF:39:VAL:CG1	30:DF:42:ALA:HB2	2.29	0.61
31:DG:86:LEU:HD11	31:DG:163:TYR:CD1	2.36	0.61
38:DN:51:LEU:N	38:DN:51:LEU:HD23	2.15	0.61
49:DY:21:LEU:O	49:DY:23:ARG:O	2.19	0.61
1:AA:121:U:OP2	1:AA:121:U:H4'	2.00	0.61
1:AA:64:G:C8	1:AA:99:C:N4	2.68	0.61
1:AA:757:U:O2'	1:AA:879:C:H1'	2.00	0.61
1:AA:853:C:H2'	1:AA:854:U:H6	1.66	0.61
1:AA:91:U:C2	1:AA:92:U:H1'	2.35	0.61
2:AB:118:THR:O	2:AB:119:GLN:HB2	2.01	0.61
4:AD:131:ILE:HD12	4:AD:134:TYR:H	1.64	0.61
5:AE:59:ILE:O	5:AE:62:ALA:HB3	2.01	0.61
5:AE:72:ASN:H	5:AE:72:ASN:HD22	1.48	0.61
11:AK:124:LYS:HG2	11:AK:125:LYS:H	1.64	0.61
1:AA:1313:U:P	19:AS:5:LYS:HB3	2.41	0.61
1:BA:1122:U:C2	1:BA:1123:U:C6	2.88	0.61
1:BA:1126:U:N1	1:BA:1281:C:C5	2.69	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1471:U:O2'	1:BA:1472:U:H5'	2.01	0.61
1:BA:600:A:C4	1:BA:639:G:N2	2.68	0.61
5:BE:124:ALA:O	5:BE:125:LYS:CB	2.49	0.61
7:BG:34:LYS:HB3	7:BG:37:THR:HG22	1.82	0.61
9:BI:75:ALA:HA	9:BI:78:ILE:HD12	1.81	0.61
13:BM:28:ARG:HG3	13:BM:62:PHE:CE2	2.36	0.61
15:BO:69:LEU:HD13	15:BO:77:TYR:HB2	1.81	0.61
19:BS:40:PHE:HA	19:BS:66:VAL:HG13	1.83	0.61
20:BT:56:ILE:O	20:BT:60:GLN:HG2	2.00	0.61
25:CA:1300:G:H4'	25:CA:1301:A:H5'	1.82	0.61
25:CA:1415:U:O2	25:CA:1415:U:H3'	2.01	0.61
25:CA:1420:A:C6	25:CA:2211:A:C2	2.87	0.61
25:CA:417:C:H2'	25:CA:418:C:H6	1.65	0.61
26:CB:102:G:C2'	26:CB:103:U:H5'	2.31	0.61
27:CC:167:ASP:OD2	27:CC:167:ASP:C	2.38	0.61
33:CI:126:ARG:HA	33:CI:129:GLU:HG3	1.82	0.61
33:CI:54:ILE:CG1	33:CI:73:PRO:HB3	2.30	0.61
33:CI:4:VAL:O	33:CI:5:GLN:HB3	1.98	0.61
44:CT:34:VAL:HG22	44:CT:81:LYS:HB3	1.83	0.61
44:CT:69:ARG:HB2	44:CT:74:ILE:HG22	1.81	0.61
49:CY:37:LEU:C	49:CY:37:LEU:HD12	2.21	0.61
49:CY:45:GLN:O	49:CY:46:VAL:HB	2.00	0.61
25:DA:1866:A:N1	25:DA:1876:A:N7	2.49	0.61
25:DA:900:A:C2	25:DA:901:C:H1'	2.35	0.61
28:DD:100:LEU:C	28:DD:100:LEU:HD12	2.20	0.61
32:DH:1:MET:HE2	32:DH:23:ALA:HA	1.82	0.61
36:DL:135:ILE:HG22	36:DL:140:GLY:HA2	1.83	0.61
45:DU:85:ARG:HG2	45:DU:94:PHE:HD2	1.65	0.61
46:DV:63:ILE:HG22	46:DV:65:VAL:HG12	1.83	0.61
1:AA:468:A:H5'	1:AA:469:C:OP2	2.01	0.61
1:AA:542:G:C4	1:AA:543:U:C5	2.88	0.61
2:AB:63:LYS:O	2:AB:65:LYS:HE2	2.00	0.61
16:AP:51:ARG:HH11	16:AP:51:ARG:HG2	1.64	0.61
16:AP:73:ALA:O	16:AP:77:GLU:CB	2.48	0.61
1:BA:1356:G:H2'	1:BA:1357:A:C8	2.35	0.61
4:BD:3:TYR:O	4:BD:4:LEU:HB2	2.00	0.61
12:BL:2:THR:HB	12:BL:5:GLN:CG	2.31	0.61
14:BN:90:ARG:HB2	14:BN:92:GLU:HG3	1.83	0.61
18:BR:31:TYR:O	18:BR:39:VAL:HG23	2.00	0.61
21:BU:26:GLY:O	21:BU:30:GLU:HB2	2.01	0.61
25:CA:1073:A:C3'	25:CA:1074:G:C5'	2.79	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:54:THR:O	37:CM:56:ALA:N	2.33	0.61
42:CR:74:ILE:N	42:CR:74:ILE:HD12	2.15	0.61
25:DA:1057:A:N7	25:DA:1086:A:H2'	2.16	0.61
25:DA:1383:A:C2	25:DA:1384:A:N3	2.69	0.61
25:DA:1540:G:C6	25:DA:1541:C:C4	2.89	0.61
25:DA:1790:C:C5	25:DA:1828:G:C2	2.89	0.61
25:DA:1789:A:O2'	25:DA:1790:C:H5'	2.01	0.61
25:DA:2184:A:H2'	25:DA:2185:U:C6	2.36	0.61
25:DA:404:A:C1'	25:DA:405:U:OP2	2.48	0.61
27:DC:264:LYS:HB3	27:DC:265:PHE:CE1	2.35	0.61
34:DJ:117:ALA:HA	34:DJ:120:ARG:HD2	1.83	0.61
34:DJ:129:GLU:OE1	34:DJ:129:GLU:N	2.34	0.61
37:DM:62:LYS:HD3	37:DM:64:TRP:CH2	2.34	0.61
41:DQ:93:ILE:HD13	42:DR:11:GLN:HB2	1.83	0.61
45:DU:15:GLY:O	45:DU:16:LYS:CB	2.48	0.61
49:DY:13:GLU:O	49:DY:16:THR:N	2.33	0.61
1:AA:983:A:C2'	1:AA:983:A:N3	2.62	0.61
2:AB:168:GLU:OE1	2:AB:168:GLU:HA	2.00	0.61
2:AB:71:THR:O	2:AB:72:LYS:HB3	2.01	0.61
3:AC:122:GLN:O	3:AC:127:VAL:HG22	2.00	0.61
4:AD:21:LYS:O	4:AD:23:GLY:N	2.33	0.61
1:AA:545:C:OP1	4:AD:68:GLU:HG3	2.01	0.61
9:AI:33:SER:CB	9:AI:36:GLN:HG3	2.30	0.61
10:AJ:14:ASP:HB3	10:AJ:17:LEU:HD22	1.81	0.61
10:AJ:28:THR:O	10:AJ:32:THR:HG22	2.01	0.61
15:AO:18:ALA:O	15:AO:19:ASN:CB	2.49	0.61
1:BA:1536:C:H5''	1:BA:1537:U:OP2	2.01	0.61
1:BA:723:U:H5'	1:BA:724:G:OP1	2.01	0.61
2:BB:49:PHE:CD1	2:BB:49:PHE:O	2.53	0.61
4:BD:34:GLU:O	4:BD:36:ALA:N	2.32	0.61
5:BE:17:VAL:HG13	5:BE:18:ASN:N	2.14	0.61
7:BG:41:ILE:HG23	7:BG:116:ALA:HB2	1.82	0.61
10:BJ:53:ILE:HG22	10:BJ:61:ALA:C	2.21	0.61
16:BP:42:ILE:O	16:BP:44:SER:N	2.34	0.61
25:CA:1372:U:H2'	25:CA:1373:A:C5'	2.30	0.61
25:CA:2304:G:H2'	25:CA:2305:U:C5'	2.31	0.61
25:CA:454:A:H4'	25:CA:455:C:OP2	2.00	0.61
27:CC:104:LEU:N	27:CC:104:LEU:HD12	2.15	0.61
31:CG:41:GLU:HG3	31:CG:54:ARG:HH21	1.66	0.61
32:CH:11:ASN:O	32:CH:12:LEU:HB3	2.01	0.61
43:CS:59:GLU:HG3	43:CS:66:ILE:CD1	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CZ:48:ASN:O	50:CZ:51:SER:HB3	2.00	0.61
25:DA:404:A:H1'	25:DA:405:U:OP2	2.01	0.61
25:DA:572:A:H5''	25:DA:573:U:OP2	2.00	0.61
28:DD:176:ASP:O	28:DD:189:VAL:HG12	2.00	0.61
30:DF:142:TYR:O	30:DF:145:VAL:HG22	2.01	0.61
46:DV:38:LEU:HB3	46:DV:40:ILE:HD11	1.83	0.61
50:DZ:35:VAL:HG21	50:DZ:37:ARG:NH2	2.15	0.61
1:AA:61:G:C4	1:AA:107:G:N2	2.68	0.61
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.61
2:AB:88:GLN:HG2	2:AB:220:VAL:HG11	1.83	0.61
4:AD:9:LYS:HA	4:AD:12:ARG:HG3	1.83	0.61
5:AE:80:LEU:HD21	5:AE:122:VAL:HG12	1.82	0.61
6:AF:7:VAL:O	6:AF:7:VAL:HG22	1.99	0.61
7:AG:119:LEU:HD22	7:AG:123:LEU:HD23	1.82	0.61
7:AG:14:ASP:H	7:AG:23:ALA:HB2	1.66	0.61
11:AK:125:LYS:C	21:AU:33:ARG:CZ	2.69	0.61
1:BA:1021:A:H2'	1:BA:1022:A:H5''	1.83	0.61
1:BA:1028:C:C6	1:BA:1034:G:N2	2.68	0.61
1:BA:1219:A:H2'	1:BA:1220:G:C8	2.35	0.61
1:BA:1265:C:C2	1:BA:1271:A:C2	2.88	0.61
1:BA:1377:A:N3	7:BG:1:PRO:CG	2.64	0.61
2:BB:61:SER:HA	2:BB:223:GLY:HA2	1.83	0.61
3:BC:101:ASN:C	3:BC:102:ILE:CG1	2.69	0.61
11:BK:75:GLU:HB2	11:BK:76:TYR:CD1	2.35	0.61
25:CA:211:C:OP1	53:C2:25:LYS:NZ	2.33	0.61
25:CA:1081:U:O2	25:CA:1081:U:H2'	2.00	0.61
25:CA:1416:G:HO2'	25:CA:1417:C:H6	1.47	0.61
25:CA:1462:C:O2'	25:CA:1463:C:C5'	2.48	0.61
25:CA:1673:G:C2'	25:CA:1674:G:H5'	2.30	0.61
25:CA:1740:G:O2'	25:CA:1741:C:H5'	2.00	0.61
25:CA:2127:G:C4'	25:CA:2128:G:OP1	2.45	0.61
25:CA:2657:A:H1'	25:CA:2665:A:N6	2.16	0.61
30:CF:40:GLY:HA2	30:CF:84:ILE:CD1	2.31	0.61
31:CG:108:PHE:HE2	31:CG:151:ARG:CZ	2.13	0.61
33:CI:100:ILE:CG1	33:CI:137:LEU:HD13	2.31	0.61
33:CI:46:ASP:HA	33:CI:50:LYS:CD	2.30	0.61
36:CL:81:ASP:O	36:CL:83:ALA:N	2.33	0.61
42:CR:24:LYS:HA	42:CR:94:THR:CG2	2.30	0.61
25:DA:1526:C:H2'	25:DA:1527:G:O4'	2.01	0.61
25:DA:2489:U:C4	25:DA:2490:G:C6	2.88	0.61
56:DB:95:U:C2	56:DB:96:G:C8	2.89	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:123:ILE:CD1	27:DC:135:PRO:HD3	2.30	0.61
27:DC:144:GLU:HG2	27:DC:151:GLY:H	1.66	0.61
30:DF:98:PHE:O	30:DF:99:PHE:C	2.39	0.61
37:DM:17:ASN:O	37:DM:38:ARG:NH1	2.33	0.61
38:DN:24:MET:CE	38:DN:44:LEU:HD13	2.30	0.61
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.00	0.61
1:AA:429:U:H1'	1:AA:430:A:H5''	1.81	0.61
1:AA:495:A:C2	1:AA:496:A:N6	2.69	0.61
6:AF:92:THR:HG22	6:AF:93:LYS:N	2.14	0.61
16:AP:79:ASN:HB2	16:AP:82:ALA:O	2.00	0.61
21:AU:10:PRO:HD2	21:AU:11:PHE:CD2	2.36	0.61
3:BC:114:LEU:O	3:BC:115:VAL:C	2.39	0.61
4:BD:172:VAL:O	4:BD:173:ASP:CB	2.49	0.61
6:BF:55:HIS:O	6:BF:56:LYS:HB2	2.01	0.61
6:BF:43:GLY:O	6:BF:58:HIS:HA	2.01	0.61
8:BH:77:VAL:HG11	8:BH:124:ILE:CD1	2.30	0.61
9:BI:12:LYS:O	9:BI:13:SER:HB3	2.00	0.61
12:BL:42:LYS:HG2	12:BL:43:LYS:HD3	1.81	0.61
17:BQ:14:ASP:OD2	17:BQ:53:GLY:HA2	2.01	0.61
19:BS:28:LYS:HB3	19:BS:29:PRO:HD2	1.83	0.61
25:CA:1069:A:H4'	25:CA:1070:A:H8	1.66	0.61
25:CA:1844:C:C2	25:CA:1897:G:N2	2.69	0.61
25:CA:323:C:H2'	29:CE:163:ASN:HD21	1.64	0.61
30:CF:104:THR:HG23	30:CF:105:ILE:HG23	1.81	0.61
39:CO:83:LEU:HD22	39:CO:88:LYS:HB3	1.83	0.61
46:CV:29:ILE:HD13	46:CV:30:ILE:H	1.64	0.61
25:CA:96:C:H4'	49:CY:41:HIS:CD2	2.36	0.61
50:CZ:29:ARG:O	50:CZ:30:ARG:HB3	2.00	0.61
25:DA:1314:C:P	60:DA:3770:HOH:O	2.52	0.61
25:DA:1392:A:C6	25:DA:1393:A:N6	2.69	0.61
25:DA:1410:G:C2	25:DA:1593:A:C6	2.89	0.61
25:DA:2386:A:H2'	25:DA:2387:U:C6	2.36	0.61
25:DA:244:A:H2'	25:DA:245:G:O4'	1.99	0.61
56:DB:103:U:C2'	56:DB:104:A:H5'	2.31	0.61
27:DC:71:ASP:HA	27:DC:117:SER:O	2.01	0.61
27:DC:120:ASP:O	27:DC:121:ALA:O	2.19	0.61
29:DE:130:LYS:O	29:DE:132:LYS:N	2.34	0.61
33:DI:11:GLN:HE22	33:DI:53:PRO:HA	1.66	0.61
35:DK:24:VAL:HG13	35:DK:33:ALA:HB2	1.82	0.61
36:DL:111:ILE:HD12	36:DL:111:ILE:N	2.16	0.61
42:DR:49:ILE:HG13	42:DR:52:PRO:HA	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DS:59:GLU:HA	43:DS:64:ALA:CB	2.31	0.61
46:DV:63:ILE:HD12	46:DV:72:VAL:HG21	1.81	0.61
25:DA:78:U:OP2	49:DY:2:LYS:CD	2.49	0.61
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.00	0.61
1:AA:462:G:H3'	1:AA:463:U:C6	2.35	0.61
1:AA:202:G:O2'	1:AA:468:A:C8	2.48	0.61
13:AM:113:LYS:CB	13:AM:114:PRO:CD	2.78	0.61
13:AM:18:LEU:CD1	13:AM:32:ILE:HG21	2.31	0.61
13:AM:45:SER:O	13:AM:46:GLU:HB3	2.01	0.61
13:AM:44:ILE:HA	13:AM:47:LEU:CB	2.31	0.61
15:AO:34:GLN:HB3	15:AO:58:MET:CE	2.30	0.61
1:BA:1113:C:N3	1:BA:1114:C:C5	2.68	0.61
1:BA:154:U:O2	1:BA:154:U:H2'	2.01	0.61
1:BA:765:G:H3'	1:BA:812:G:H22	1.65	0.61
3:BC:153:SER:CB	3:BC:164:THR:HG22	2.31	0.61
12:BL:18:SER:O	12:BL:21:PRO:HD3	2.01	0.61
14:BN:35:ALA:HB2	14:BN:42:TRP:CH2	2.36	0.61
17:BQ:12:VAL:CG1	17:BQ:21:VAL:HG22	2.30	0.61
25:CA:1060:U:C5'	25:CA:1062:G:H5'	2.30	0.61
25:CA:1475:G:O2'	25:CA:1476:U:P	2.58	0.61
25:CA:1509:A:O2'	25:CA:1510:G:P	2.58	0.61
25:CA:1526:C:H2'	25:CA:1527:G:O5'	2.00	0.61
25:CA:1714:U:H5''	25:CA:1715:G:H5'	1.82	0.61
25:CA:304:U:O2'	25:CA:305:C:H5'	2.01	0.61
25:CA:460:A:H2'	25:CA:461:C:O4'	2.01	0.61
27:CC:170:TYR:CD2	27:CC:184:GLU:HA	2.36	0.61
36:CL:85:VAL:HG11	36:CL:94:THR:HG22	1.83	0.61
25:CA:2469:A:H4'	37:CM:55:ARG:NH1	2.15	0.61
54:D3:26:ALA:O	54:D3:27:ASN:HB2	1.99	0.61
25:DA:1515:A:H5'	25:DA:1516:G:OP2	2.00	0.61
25:DA:2204:G:N3	25:DA:2205:A:C8	2.69	0.61
25:DA:714:U:C5'	25:DA:715:A:OP2	2.49	0.61
30:DF:32:LYS:O	30:DF:33:ILE:CG1	2.49	0.61
31:DG:97:VAL:HG21	31:DG:123:GLU:HA	1.82	0.61
37:DM:31:PHE:CZ	37:DM:110:GLU:HA	2.36	0.61
37:DM:36:VAL:HG23	37:DM:128:THR:HA	1.83	0.61
39:DO:75:GLY:CA	39:DO:106:LEU:HD23	2.31	0.61
40:DP:105:LYS:O	40:DP:108:ARG:HD3	2.01	0.61
1:AA:1032:G:C5'	1:AA:1033:G:OP2	2.47	0.60
1:AA:190:A:N7	1:AA:191:G:C8	2.69	0.60
1:AA:294:U:H2'	1:AA:295:C:C6	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:983:A:H2'	1:AA:983:A:N3	2.16	0.60
2:AB:110:ILE:CG1	2:AB:150:ILE:HG12	2.30	0.60
4:AD:168:THR:HB	4:AD:183:ARG:NH2	2.15	0.60
5:AE:39:GLY:HA3	5:AE:116:VAL:O	2.01	0.60
5:AE:81:GLN:OE1	5:AE:147:ASN:O	2.18	0.60
10:AJ:26:VAL:O	10:AJ:30:LYS:HD3	2.01	0.60
1:AA:1228:C:OP2	13:AM:106:ARG:NH2	2.34	0.60
15:AO:34:GLN:HB3	15:AO:58:MET:HE1	1.82	0.60
17:AQ:54:ILE:C	17:AQ:54:ILE:HD13	2.21	0.60
24:AY:10:ALA:O	24:AY:11:GLU:C	2.38	0.60
1:BA:1308:U:H5''	13:BM:96:VAL:HG23	1.82	0.60
1:BA:135:C:C2	16:BP:1:MET:HB2	2.36	0.60
1:BA:1493:A:OP2	1:BA:1493:A:C8	2.54	0.60
1:BA:459:A:C2	1:BA:460:A:C4	2.89	0.60
11:BK:90:PRO:O	11:BK:91:GLY:C	2.37	0.60
13:BM:68:LEU:O	13:BM:71:GLU:HB2	2.01	0.60
19:BS:55:GLN:CD	19:BS:56:HIS:H	2.04	0.60
54:C3:26:ALA:O	54:C3:27:ASN:HB2	2.01	0.60
25:CA:1243:C:H2'	25:CA:1244:A:O5'	2.01	0.60
25:CA:1988:G:C2'	25:CA:1989:G:H5'	2.29	0.60
25:CA:2051:A:OP2	25:CA:2051:A:H8	1.84	0.60
25:CA:2314:A:H2'	25:CA:2315:G:H8	1.66	0.60
28:CD:1:MET:SD	28:CD:100:LEU:CD1	2.88	0.60
29:CE:48:THR:HG22	29:CE:86:ALA:HB3	1.82	0.60
38:CN:63:ARG:HG3	38:CN:80:PHE:CZ	2.35	0.60
40:CP:80:VAL:O	40:CP:80:VAL:HG12	1.99	0.60
41:CQ:87:VAL:HG13	42:CR:49:ILE:HD11	1.82	0.60
25:DA:1360:G:OP2	60:DA:3623:HOH:O	2.16	0.60
25:DA:1363:C:O2'	25:DA:1364:G:H5'	2.00	0.60
25:DA:1477:A:C2	25:DA:1515:A:C5	2.89	0.60
25:DA:1486:U:N3	25:DA:1504:A:C2	2.69	0.60
25:DA:1588:G:C6	25:DA:1589:U:C4	2.88	0.60
25:DA:735:A:H3'	25:DA:736:C:C6	2.36	0.60
29:DE:158:PHE:CD1	29:DE:158:PHE:C	2.73	0.60
31:DG:84:LYS:HG3	31:DG:140:ILE:HD12	1.82	0.60
33:DI:75:ALA:HA	33:DI:78:LEU:HB2	1.81	0.60
35:DK:87:LEU:O	35:DK:88:ASN:C	2.39	0.60
36:DL:93:ASN:OD1	36:DL:94:THR:N	2.34	0.60
46:DV:29:ILE:HG12	46:DV:38:LEU:O	2.02	0.60
1:AA:1356:G:N2	1:AA:1357:A:N3	2.48	0.60
1:AA:340:U:H2'	1:AA:341:C:H6	1.65	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:51:VAL:HG21	3:AC:67:ILE:CG2	2.31	0.60
4:AD:121:ALA:N	4:AD:122:ILE:CD1	2.64	0.60
5:AE:80:LEU:CD2	5:AE:122:VAL:HG12	2.31	0.60
6:AF:10:VAL:CG1	6:AF:11:HIS:N	2.64	0.60
8:AH:78:SER:HA	8:AH:84:ILE:HG12	1.83	0.60
13:AM:19:THR:CA	13:AM:24:VAL:HG23	2.30	0.60
20:AT:33:LYS:CE	20:AT:33:LYS:HA	2.29	0.60
1:BA:101:A:C2'	1:BA:102:G:O5'	2.49	0.60
1:BA:1221:G:C4'	19:BS:76:THR:HG21	2.31	0.60
1:BA:1420:U:H2'	1:BA:1421:G:O4'	2.00	0.60
1:BA:60:A:N1	1:BA:107:G:O2'	2.31	0.60
1:BA:678:U:H2'	1:BA:679:C:C6	2.37	0.60
2:BB:99:MET:O	2:BB:103:TRP:CA	2.49	0.60
7:BG:4:ARG:NE	7:BG:4:ARG:HA	2.15	0.60
13:BM:15:VAL:HG13	13:BM:33:LEU:HD12	1.83	0.60
51:C0:52:LYS:O	51:C0:52:LYS:CG	2.49	0.60
52:C1:47:ILE:H	52:C1:47:ILE:HD12	1.66	0.60
25:CA:1508:A:OP1	25:CA:1508:A:H4'	2.01	0.60
25:CA:1893:C:H2'	25:CA:1894:C:H5'	1.82	0.60
25:CA:2522:U:H2'	25:CA:2523:G:H5'	1.81	0.60
25:CA:2709:G:O2'	25:CA:2710:C:H5'	2.01	0.60
32:CH:116:ARG:HG3	32:CH:133:GLN:CD	2.21	0.60
36:CL:48:ARG:HD2	54:C3:59:ALA:O	2.01	0.60
40:CP:80:VAL:HG11	40:CP:83:ILE:HD11	1.83	0.60
44:CT:1:MET:HB2	44:CT:2:ILE:HD12	1.84	0.60
25:DA:1113:U:H2'	25:DA:1114:C:C6	2.36	0.60
25:DA:1319:C:O2'	25:DA:1320:C:H5'	2.01	0.60
25:DA:1372:U:C2'	25:DA:1373:A:H5'	2.31	0.60
25:DA:1489:C:C2	25:DA:1501:G:N2	2.69	0.60
25:DA:1410:G:N3	25:DA:1593:A:C2	2.68	0.60
25:DA:2335:A:OP1	39:DO:13:ARG:CD	2.48	0.60
25:DA:323:C:O4'	25:DA:323:C:O2	2.17	0.60
27:DC:236:GLY:O	27:DC:237:ARG:CB	2.49	0.60
29:DE:108:ILE:HD11	29:DE:180:LEU:CB	2.28	0.60
36:DL:93:ASN:O	36:DL:94:THR:HG22	2.01	0.60
43:DS:20:VAL:CG2	43:DS:43:ALA:HB3	2.30	0.60
45:DU:85:ARG:O	45:DU:92:VAL:CG2	2.49	0.60
1:AA:1286:U:C5'	1:AA:1287:A:OP2	2.50	0.60
1:AA:1506:U:H4'	11:AK:128:VAL:OXT	2.00	0.60
1:AA:1533:C:H5'	1:AA:1534:A:OP1	2.01	0.60
1:AA:175:C:O2'	1:AA:176:C:H5'	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:61:LYS:HA	3:AC:61:LYS:CE	2.30	0.60
5:AE:102:THR:CG2	5:AE:103:GLY:N	2.65	0.60
6:AF:46:GLN:HB2	6:AF:56:LYS:CE	2.32	0.60
9:AI:25:GLY:HA3	9:AI:57:VAL:O	2.00	0.60
17:AQ:14:ASP:OD1	17:AQ:54:ILE:HB	2.01	0.60
21:AU:35:GLU:O	21:AU:36:PHE:CB	2.50	0.60
1:BA:1141:C:O2'	1:BA:1142:G:P	2.59	0.60
1:BA:978:A:C5	1:BA:1318:A:N6	2.69	0.60
1:BA:1381:U:C5	1:BA:1382:C:C5	2.88	0.60
1:BA:1423:G:H2'	1:BA:1424:U:H6	1.67	0.60
1:BA:767:A:O2'	1:BA:1524:C:O2	2.17	0.60
1:BA:317:U:C2	1:BA:318:G:C8	2.89	0.60
1:BA:714:G:H2'	1:BA:715:A:C8	2.36	0.60
1:BA:87:C:H2'	1:BA:88:U:N1	2.16	0.60
1:BA:938:A:N6	1:BA:939:G:C6	2.70	0.60
2:BB:159:ALA:HA	2:BB:181:PRO:HD2	1.83	0.60
5:BE:154:ALA:HB3	5:BE:155:LYS:CE	2.31	0.60
8:BH:33:VAL:HG12	8:BH:34:ALA:N	2.16	0.60
10:BJ:26:VAL:HG22	10:BJ:36:VAL:HG11	1.81	0.60
15:BO:72:LYS:HA	15:BO:72:LYS:CE	2.30	0.60
17:BQ:14:ASP:HA	17:BQ:20:ILE:CD1	2.31	0.60
25:CA:138:U:H4'	25:CA:139:U:C5'	2.31	0.60
25:CA:1591:A:H2'	25:CA:1592:C:C6	2.36	0.60
25:CA:1856:U:C2'	25:CA:1857:G:H5'	2.31	0.60
25:CA:533:G:OP1	41:CQ:23:TYR:O	2.19	0.60
38:CN:103:ARG:CZ	38:CN:110:MET:CE	2.79	0.60
42:CR:39:LEU:CA	42:CR:49:ILE:HG23	2.31	0.60
44:CT:4:GLU:HA	44:CT:7:LEU:HD12	1.81	0.60
51:D0:31:LYS:HG2	51:D0:32:THR:N	2.15	0.60
25:DA:1172:C:H2'	25:DA:1173:U:C6	2.36	0.60
25:DA:1179:G:C5	25:DA:1180:U:C1'	2.85	0.60
25:DA:1335:C:O2'	25:DA:1336:A:H5'	2.01	0.60
25:DA:1358:G:C8	25:DA:1371:G:O6	2.54	0.60
25:DA:1794:A:H2'	25:DA:1795:C:H6	1.65	0.60
25:DA:2794:C:C6	25:DA:2794:C:OP2	2.54	0.60
25:DA:301:G:C2	25:DA:302:C:C2	2.89	0.60
25:DA:309:A:H4'	45:DU:15:GLY:HA2	1.84	0.60
25:DA:769:U:C4	25:DA:770:G:N7	2.70	0.60
27:DC:69:ASN:O	27:DC:71:ASP:N	2.35	0.60
36:DL:77:ILE:O	36:DL:110:VAL:O	2.19	0.60
36:DL:126:ARG:O	36:DL:127:VAL:CG2	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:103:ARG:HB2	38:DN:110:MET:HE3	1.82	0.60
44:DT:21:SER:O	44:DT:24:MET:N	2.34	0.60
44:DT:49:LYS:HB2	44:DT:50:LEU:HD13	1.83	0.60
25:DA:2279:G:N7	57:DW:10:ARG:NH2	2.49	0.60
1:AA:1317:C:H2'	1:AA:1318:A:C5'	2.32	0.60
1:AA:425:G:H2'	1:AA:426:U:O4'	2.02	0.60
1:AA:972:C:H4'	10:AJ:59:LYS:HE2	1.83	0.60
3:AC:54:ILE:HD12	3:AC:54:ILE:O	2.01	0.60
9:AI:25:GLY:CA	9:AI:58:GLU:HA	2.30	0.60
15:AO:72:LYS:CE	15:AO:72:LYS:HA	2.30	0.60
16:AP:19:VAL:HG22	16:AP:36:VAL:O	2.00	0.60
16:AP:48:GLU:HG3	16:AP:49:GLY:N	2.16	0.60
1:AA:274:A:C5'	17:AQ:15:LYS:HE2	2.32	0.60
1:BA:1010:U:H2'	1:BA:1011:C:C6	2.36	0.60
1:BA:344:A:H4'	1:BA:345:C:OP2	2.01	0.60
1:BA:357:G:OP1	1:BA:367:U:H2'	2.02	0.60
5:BE:37:VAL:CG1	5:BE:116:VAL:HG21	2.31	0.60
15:BO:3:SER:O	15:BO:7:THR:HG23	2.00	0.60
25:CA:2420:C:OP2	54:C3:32:LEU:HB2	2.00	0.60
25:CA:1344:U:H4'	25:CA:1345:C:OP2	2.02	0.60
25:CA:897:C:O5'	25:CA:897:C:H6	1.83	0.60
27:CC:143:VAL:HB	27:CC:153:LEU:HD12	1.82	0.60
33:CI:66:PHE:CD1	33:CI:68:PHE:CD1	2.89	0.60
36:CL:2:ARG:HA	36:CL:5:THR:CG2	2.31	0.60
39:CO:59:ALA:HA	39:CO:62:LEU:HD12	1.83	0.60
43:CS:4:ILE:HD12	43:CS:4:ILE:N	2.17	0.60
25:DA:1179:G:C6	25:DA:1180:U:H1'	2.37	0.60
25:DA:2354:C:H5''	25:DA:2354:C:H6	1.67	0.60
25:DA:2755:C:O2'	25:DA:2756:U:H6	1.85	0.60
25:DA:332:A:C2	25:DA:335:C:C5	2.90	0.60
25:DA:948:C:O2	25:DA:984:A:O2'	2.18	0.60
56:DB:30:C:H2'	56:DB:31:C:C5'	2.31	0.60
27:DC:141:HIS:HB2	27:DC:194:VAL:HG12	1.83	0.60
27:DC:50:THR:HG21	27:DC:53:ILE:HD11	1.83	0.60
31:DG:45:ALA:O	31:DG:46:ASP:HB2	2.02	0.60
32:DH:57:LYS:HG3	32:DH:58:LEU:CD2	2.31	0.60
39:DO:13:ARG:O	39:DO:17:LYS:HG2	2.01	0.60
50:DZ:9:THR:HG22	50:DZ:53:MET:C	2.22	0.60
1:AA:437:U:C2'	1:AA:438:U:H5'	2.31	0.60
1:AA:802:A:H2'	1:AA:803:G:C5'	2.32	0.60
1:AA:930:C:C4	1:AA:931:C:C5	2.89	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:57:GLU:HA	8:AH:57:GLU:OE2	2.01	0.60
14:AN:20:PHE:HA	14:AN:24:ALA:HB3	1.82	0.60
16:AP:73:ALA:O	16:AP:77:GLU:HB3	2.01	0.60
1:BA:1157:A:H4'	1:BA:1158:C:O5'	2.01	0.60
1:BA:954:G:N2	1:BA:1228:C:N3	2.48	0.60
1:BA:934:C:C5	1:BA:1344:C:C5	2.88	0.60
1:BA:149:A:C2	1:BA:150:U:N1	2.69	0.60
1:BA:207:C:H2'	1:BA:207:C:O2	2.01	0.60
1:BA:435:A:H2'	1:BA:436:C:O5'	2.02	0.60
1:BA:50:A:N6	1:BA:361:G:C4'	2.64	0.60
2:BB:163:ILE:HA	2:BB:185:ILE:HG22	1.83	0.60
4:BD:4:LEU:CD1	4:BD:4:LEU:N	2.64	0.60
5:BE:89:THR:HG22	5:BE:90:GLY:N	2.17	0.60
7:BG:50:ALA:HB2	7:BG:57:GLU:OE2	2.01	0.60
7:BG:66:GLU:O	7:BG:66:GLU:HG2	2.01	0.60
10:BJ:18:ILE:CG2	10:BJ:19:ASP:N	2.63	0.60
11:BK:30:ILE:HG12	11:BK:30:ILE:O	2.01	0.60
17:BQ:13:SER:HB3	17:BQ:21:VAL:HG13	1.83	0.60
18:BR:38:ILE:HD11	18:BR:55:ALA:HA	1.83	0.60
21:BU:33:ARG:NE	21:BU:34:ARG:HB2	2.16	0.60
22:BV:14:A:C2	22:BV:15:G:H1'	2.37	0.60
25:CA:1007:C:OP1	34:CJ:39:LYS:HE2	2.02	0.60
25:CA:1609:A:H5''	60:CA:3651:HOH:O	2.01	0.60
25:CA:1929:G:N3	25:CA:1929:G:H5''	2.15	0.60
25:CA:1992:G:N7	60:CA:3428:HOH:O	2.32	0.60
25:CA:2055:C:H5'	25:CA:2056:G:OP1	2.02	0.60
25:CA:2542:A:H5''	25:CA:2766:A:O2'	2.02	0.60
25:CA:8:C:O2'	25:CA:9:G:H5'	2.02	0.60
27:CC:142:ASN:OD1	27:CC:151:GLY:HA3	2.02	0.60
25:CA:2312:U:OP1	30:CF:70:ARG:HB2	2.02	0.60
36:CL:100:ILE:HG13	36:CL:101:ILE:HG23	1.84	0.60
46:CV:80:HIS:ND1	46:CV:81:PRO:HD2	2.16	0.60
25:DA:1096:A:H2'	25:DA:1097:U:O4'	2.01	0.60
25:DA:1350:C:C2	25:DA:1382:G:C2	2.90	0.60
25:DA:1503:A:N6	25:DA:1504:A:C6	2.70	0.60
25:DA:1739:A:C2'	25:DA:1740:G:O5'	2.47	0.60
25:DA:2198:A:H4'	25:DA:2199:A:OP1	2.01	0.60
25:DA:2218:G:O2'	25:DA:2219:U:H5'	2.01	0.60
25:DA:2301:C:H2'	25:DA:2302:U:C6	2.35	0.60
25:DA:2461:A:H1'	25:DA:2492:U:C2	2.37	0.60
25:DA:2572:A:OP1	25:DA:2574:G:H4'	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:876:C:N4	25:DA:877:A:N6	2.50	0.60
29:DE:148:ILE:HD13	29:DE:187:VAL:CG1	2.31	0.60
33:DI:45:THR:O	33:DI:50:LYS:HD3	2.02	0.60
33:DI:56:VAL:CG2	33:DI:70:THR:HB	2.32	0.60
46:DV:55:GLU:H	46:DV:55:GLU:CD	2.04	0.60
44:DT:8:LEU:HD13	49:DY:21:LEU:HB3	1.82	0.60
1:AA:1216:A:H2'	1:AA:1217:C:H6	1.66	0.60
1:AA:1231:G:C5	1:AA:1232:U:C5	2.89	0.60
1:AA:1320:C:H2'	1:AA:1321:U:O4'	2.00	0.60
1:AA:1502:A:C8	1:AA:1504:G:C5	2.89	0.60
1:AA:58:C:O2'	1:AA:388:G:N7	2.17	0.60
1:AA:402:G:C2'	1:AA:403:C:H5'	2.31	0.60
1:AA:533:A:C2	1:AA:536:C:C6	2.89	0.60
3:AC:142:ARG:CG	3:AC:143:LEU:HD13	2.30	0.60
3:AC:205:GLU:O	3:AC:206:ILE:O	2.20	0.60
6:AF:86:ARG:HH11	6:AF:86:ARG:HG2	1.67	0.60
10:AJ:5:ARG:HG2	10:AJ:79:PRO:CB	2.32	0.60
10:AJ:63:ASP:OD1	14:AN:85:ARG:CD	2.50	0.60
18:AR:19:GLU:N	18:AR:27:THR:HG21	2.17	0.60
20:AT:67:HIS:HB3	20:AT:68:LYS:HE3	1.84	0.60
1:BA:1217:C:H2'	1:BA:1218:C:H6	1.66	0.60
1:BA:785:G:C2'	1:BA:786:G:H5'	2.32	0.60
7:BG:70:PRO:HG3	7:BG:102:TRP:CH2	2.36	0.60
13:BM:15:VAL:CG1	13:BM:33:LEU:HD12	2.31	0.60
15:BO:9:LYS:O	15:BO:13:GLU:HG3	2.02	0.60
1:BA:1221:G:H4'	19:BS:76:THR:HG22	1.83	0.60
21:BU:13:VAL:O	21:BU:15:LEU:HD11	2.02	0.60
25:CA:1403:A:C2	25:CA:1404:C:C2	2.89	0.60
25:CA:1434:A:HO2'	25:CA:1435:G:H8	1.42	0.60
25:CA:2075:U:C2'	25:CA:2077:A:OP2	2.49	0.60
25:CA:2152:G:C5	25:CA:2153:C:C4	2.90	0.60
25:CA:2211:A:C1'	25:CA:2212:A:OP1	2.49	0.60
25:CA:2813:A:C2'	25:CA:2814:A:H5'	2.31	0.60
25:CA:725:G:C6	25:CA:726:G:N1	2.69	0.60
28:CD:130:GLN:O	28:CD:131:ASP:C	2.39	0.60
25:DA:1153:C:OP1	41:DQ:91:ARG:NH1	2.35	0.60
25:DA:1404:C:O2'	25:DA:1405:U:H5'	2.01	0.60
25:DA:1857:G:C4	25:DA:1884:G:C2	2.90	0.60
25:DA:2193:G:C4	25:DA:2194:U:C5	2.90	0.60
25:DA:2331:G:O2'	25:DA:2336:A:N1	2.26	0.60
25:DA:26:G:C6	25:DA:27:G:N1	2.70	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2792:A:N1	25:DA:2793:C:C4	2.70	0.60
25:DA:682:G:H2'	25:DA:682:G:N3	2.16	0.60
56:DB:51:G:H5''	39:DO:64:TYR:CD2	2.36	0.60
40:DP:7:LEU:HD23	40:DP:7:LEU:O	2.02	0.60
44:DT:16:VAL:O	44:DT:17:SER:HB3	2.00	0.60
45:DU:85:ARG:O	45:DU:92:VAL:HG23	2.02	0.60
49:DY:56:LEU:O	49:DY:57:LEU:HB3	2.01	0.60
1:AA:1134:G:C5	1:AA:1141:C:N4	2.69	0.60
1:AA:1491:G:H2'	1:AA:1492:A:C8	2.36	0.60
1:AA:502:A:O2'	1:AA:503:C:H5'	2.02	0.60
1:AA:694:A:OP1	11:AK:54:SER:HB3	2.01	0.60
1:AA:889:A:H5'	1:AA:891:U:O4'	2.02	0.60
1:AA:909:A:C8	1:AA:910:C:C5	2.90	0.60
2:AB:160:LEU:O	2:AB:162:VAL:HG12	2.02	0.60
3:AC:86:LEU:O	3:AC:87:ARG:C	2.40	0.60
10:AJ:7:ARG:HB2	10:AJ:75:ASP:OD1	2.02	0.60
14:AN:25:GLU:HB2	14:AN:28:ALA:HB2	1.83	0.60
20:AT:43:LYS:HB3	20:AT:86:ALA:HB1	1.83	0.60
24:AY:41:ILE:HG22	24:AY:52:LEU:HB3	1.82	0.60
1:BA:120:A:H4'	1:BA:121:U:OP1	2.02	0.60
1:BA:802:A:C2	1:BA:803:G:H1'	2.37	0.60
2:BB:66:ILE:HG22	2:BB:67:LEU:N	2.15	0.60
4:BD:47:LEU:CD2	4:BD:52:VAL:HG12	2.32	0.60
5:BE:73:VAL:O	5:BE:75:LEU:HD12	2.02	0.60
1:BA:1342:C:H1'	9:BI:125:GLN:HG3	1.83	0.60
9:BI:56:MET:HB3	9:BI:60:LEU:CD2	2.32	0.60
11:BK:14:GLN:HG3	11:BK:14:GLN:O	2.01	0.60
25:CA:2110:G:O2'	25:CA:2120:G:C5'	2.50	0.60
25:CA:2186:G:H2'	25:CA:2187:U:C6	2.37	0.60
32:CH:72:ILE:CG2	32:CH:73:ASN:N	2.65	0.60
33:CI:20:SER:HA	33:CI:24:GLY:HA3	1.82	0.60
39:CO:28:VAL:HG11	39:CO:92:PHE:CZ	2.36	0.60
25:CA:2683:C:OP1	40:CP:50:ARG:NH2	2.34	0.60
46:CV:48:MET:O	46:CV:51:GLN:HG3	2.01	0.60
25:DA:2615:U:C2	51:D0:3:GLN:HA	2.36	0.60
52:D1:18:HIS:CG	52:D1:19:PHE:N	2.70	0.60
25:DA:1575:C:C4	25:DA:1576:U:C5	2.90	0.60
25:DA:2803:G:H2'	25:DA:2804:U:H6	1.67	0.60
25:DA:300:A:H1'	25:DA:319:G:O4'	2.01	0.60
25:DA:484:C:O5'	25:DA:484:C:H6	1.85	0.60
25:DA:56:A:C2	25:DA:57:C:C2	2.89	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:89:U:H3'	56:DB:90:C:O4'	2.02	0.60
34:DJ:119:PHE:C	34:DJ:119:PHE:CD1	2.74	0.60
36:DL:103:ILE:O	36:DL:105:ILE:N	2.35	0.60
41:DQ:93:ILE:CD1	42:DR:11:GLN:HB2	2.32	0.60
1:AA:1216:A:C2	1:AA:1217:C:C5	2.89	0.60
1:AA:1238:A:C2	1:AA:1241:G:N3	2.69	0.60
1:AA:447:G:N2	1:AA:486:U:C4	2.70	0.60
1:AA:952:U:H2'	1:AA:953:G:C8	2.37	0.60
2:AB:32:GLY:HA3	2:AB:39:ILE:N	2.17	0.60
2:AB:63:LYS:HA	2:AB:63:LYS:CE	2.27	0.60
7:AG:39:GLU:HA	7:AG:42:VAL:CG2	2.32	0.60
1:AA:1060:U:H4'	10:AJ:53:ILE:CG2	2.30	0.60
13:AM:71:GLU:O	13:AM:74:MET:CB	2.50	0.60
19:AS:43:MET:HA	19:AS:46:LEU:HD12	1.84	0.60
11:AK:109:ILE:CG2	21:AU:16:ARG:HE	2.14	0.60
21:AU:33:ARG:NH2	21:AU:34:ARG:HD2	2.16	0.60
22:AV:69:G:C2'	22:AV:70:G:H5'	2.32	0.60
1:BA:1204:A:O5'	1:BA:1204:A:H8	1.85	0.60
1:BA:1218:C:H2'	1:BA:1219:A:C8	2.37	0.60
1:BA:1490:U:C2'	1:BA:1491:G:H5'	2.32	0.60
1:BA:17:U:H2'	1:BA:18:C:C6	2.36	0.60
1:BA:646:G:H2'	1:BA:647:C:O4'	2.02	0.60
1:BA:1060:U:C5	3:BC:1:GLY:HA3	2.36	0.60
4:BD:190:LEU:H	4:BD:190:LEU:HD12	1.67	0.60
6:BF:6:ILE:HG22	6:BF:7:VAL:N	2.17	0.60
9:BI:28:VAL:HB	9:BI:63:TYR:HD2	1.67	0.60
10:BJ:78:GLU:O	10:BJ:78:GLU:HG3	2.02	0.60
13:BM:25:GLY:O	13:BM:27:THR:N	2.35	0.60
16:BP:23:ASP:O	16:BP:26:ASN:ND2	2.34	0.60
20:BT:53:MET:HE1	20:BT:57:VAL:HG21	1.82	0.60
20:BT:82:ILE:HD12	20:BT:86:ALA:HB3	1.84	0.60
25:CA:117:G:C6	25:CA:119:A:N6	2.70	0.60
25:CA:2207:C:H2'	25:CA:2208:C:C6	2.37	0.60
25:CA:2436:G:N3	25:CA:2598:A:H2	1.99	0.60
25:CA:998:C:H3'	60:CA:3360:HOH:O	2.00	0.60
13:AM:69:ARG:HD2	30:CF:143:ASP:OD1	2.02	0.60
25:DA:1455:G:OP2	60:DA:3417:HOH:O	2.17	0.60
25:DA:158:U:H2'	25:DA:159:G:H5'	1.82	0.60
25:DA:2333:A:H5'	25:DA:2335:A:H1'	1.83	0.60
25:DA:295:G:C2	25:DA:296:U:C6	2.90	0.60
25:DA:45:G:H5''	25:DA:46:G:OP1	2.00	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:55:G:C2'	25:DA:56:A:H5'	2.32	0.60
25:DA:934:U:H2'	25:DA:935:C:C6	2.36	0.60
56:DB:110:C:H2'	56:DB:111:U:C6	2.37	0.60
39:DO:56:LYS:HG3	39:DO:57:ALA:N	2.16	0.60
44:DT:22:THR:HA	44:DT:25:GLU:HG2	1.83	0.60
1:AA:1306:A:N7	1:AA:1307:U:C5	2.70	0.60
1:AA:1320:C:OP1	19:AS:69:LYS:HG3	2.01	0.60
1:AA:1443:C:C4	1:AA:1444:U:C5	2.89	0.60
1:AA:380:G:N2	1:AA:384:G:C5	2.70	0.60
1:AA:451:A:C2	1:AA:480:U:C4	2.90	0.60
1:AA:632:U:H2'	1:AA:633:G:OP1	2.02	0.60
14:AN:43:ASN:HA	14:AN:45:VAL:HG22	1.82	0.60
14:AN:51:LEU:N	14:AN:51:LEU:HD23	2.17	0.60
20:AT:53:MET:O	20:AT:56:ILE:HG22	2.02	0.60
1:BA:1422:G:C2	1:BA:1423:G:C8	2.90	0.60
1:BA:465:A:C6	1:BA:466:A:C6	2.90	0.60
1:BA:484:G:C5	1:BA:486:U:H1'	2.36	0.60
2:BB:99:MET:O	2:BB:103:TRP:HB2	2.02	0.60
4:BD:18:LEU:HD22	4:BD:63:ILE:HG13	1.84	0.60
9:BI:119:LYS:O	9:BI:120:ALA:HB3	2.02	0.60
10:BJ:52:LEU:HB2	14:BN:81:ARG:HD2	1.82	0.60
17:BQ:11:VAL:HA	17:BQ:22:VAL:HG13	1.84	0.60
21:BU:3:ILE:N	21:BU:18:PHE:CE1	2.70	0.60
22:BV:26:A:H2'	22:BV:27:G:H5'	1.82	0.60
25:CA:1502:A:H2'	25:CA:1503:A:O4'	2.01	0.60
25:CA:157:C:H2'	25:CA:158:U:O4'	2.02	0.60
28:CD:55:LYS:HG2	28:CD:56:LYS:N	2.16	0.60
32:CH:27:ARG:HG2	32:CH:27:ARG:O	2.02	0.60
35:CK:70:ARG:HD3	35:CK:76:VAL:HG22	1.84	0.60
41:CQ:23:TYR:O	41:CQ:24:TYR:HB2	2.01	0.60
42:CR:64:VAL:O	42:CR:65:ALA:HB2	2.02	0.60
25:DA:1083:U:O2	25:DA:1086:A:N1	2.35	0.60
25:DA:483:A:O3'	45:DU:47:PRO:HD3	2.01	0.60
25:DA:1190:G:OP1	36:DL:32:GLY:HA2	2.01	0.60
37:DM:47:GLU:O	37:DM:50:ARG:HB3	2.02	0.60
40:DP:21:PRO:HA	40:DP:46:VAL:CG1	2.32	0.60
43:DS:20:VAL:HG21	43:DS:43:ALA:HB1	1.84	0.60
44:DT:2:ILE:HA	44:DT:3:ARG:HB2	1.83	0.60
44:DT:39:THR:HG23	44:DT:41:ALA:H	1.66	0.60
57:DW:10:ARG:HG3	57:DW:10:ARG:HH11	1.67	0.60
1:AA:1138:G:N7	1:AA:1140:C:O4'	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1158:C:N4	1:AA:1160:G:C4	2.70	0.60
1:AA:713:G:H2'	1:AA:714:G:C8	2.37	0.60
1:AA:955:U:C4	1:AA:956:U:C4	2.90	0.60
3:AC:152:VAL:HG23	3:AC:156:LEU:CD2	2.31	0.60
6:AF:3:HIS:O	6:AF:4:TYR:CG	2.54	0.60
10:AJ:26:VAL:HG12	10:AJ:30:LYS:HD3	1.84	0.60
17:AQ:62:GLU:HB2	17:AQ:72:TRP:CH2	2.37	0.60
1:AA:1539:C:C5'	21:AU:17:ARG:HG3	2.30	0.60
1:BA:934:C:C6	1:BA:1344:C:C6	2.90	0.60
1:BA:1534:A:H4'	1:BA:1535:C:OP1	2.02	0.60
1:BA:229:U:H2'	1:BA:230:G:O4'	2.02	0.60
2:BB:53:LEU:HD12	2:BB:219:THR:HG21	1.84	0.60
7:BG:34:LYS:HB2	7:BG:37:THR:CG2	2.32	0.60
10:BJ:67:ILE:HG23	14:BN:95:GLY:O	2.01	0.60
10:BJ:84:VAL:O	10:BJ:88:MET:HG2	2.01	0.60
25:CA:1055:G:N3	25:CA:1055:G:H2'	2.17	0.60
25:CA:2516:A:N6	25:CA:2517:C:N4	2.50	0.60
28:CD:189:VAL:O	28:CD:189:VAL:HG23	2.02	0.60
30:CF:129:MET:HG3	30:CF:129:MET:O	2.02	0.60
38:CN:103:ARG:NH1	38:CN:110:MET:HE1	2.17	0.60
40:CP:21:PRO:HD3	40:CP:49:ILE:HD12	1.82	0.60
25:DA:1494:A:N3	25:DA:1495:A:C8	2.69	0.60
25:DA:1524:G:H8	25:DA:1524:G:O5'	1.84	0.60
25:DA:2216:G:H2'	25:DA:2217:G:H8	1.67	0.60
25:DA:2703:C:N3	25:DA:2704:C:C5	2.70	0.60
25:DA:247:G:H4'	25:DA:386:G:C5	2.37	0.60
25:DA:419:U:OP1	60:DA:3232:HOH:O	2.16	0.60
25:DA:484:C:H2'	25:DA:485:C:C6	2.37	0.60
25:DA:634:C:H2'	25:DA:635:C:C6	2.37	0.60
27:DC:1:ALA:HA	27:DC:198:GLU:CD	2.23	0.60
30:DF:39:VAL:HG12	30:DF:84:ILE:C	2.22	0.60
30:DF:30:VAL:CG2	30:DF:95:MET:SD	2.90	0.60
31:DG:119:GLY:O	31:DG:120:ILE:HD13	2.02	0.60
38:DN:112:TYR:CG	51:D0:54:ILE:HD11	2.37	0.60
35:DK:79:PHE:CD2	40:DP:69:VAL:HG13	2.37	0.60
44:DT:14:PRO:HA	44:DT:32:LEU:HB3	1.84	0.60
46:DV:41:GLU:C	46:DV:42:LEU:HD23	2.23	0.60
48:DX:53:LYS:O	48:DX:56:ARG:N	2.35	0.60
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.17	0.59
1:AA:1213:A:N7	1:AA:1215:G:C5	2.70	0.59
1:AA:1285:A:H5'	1:AA:1286:U:O4	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:243:A:C2	1:AA:246:A:C8	2.90	0.59
1:AA:270:A:N7	1:AA:271:C:C4	2.70	0.59
1:AA:418:C:O2'	1:AA:419:C:H5'	2.02	0.59
1:AA:624:C:H2'	1:AA:625:U:O5'	2.02	0.59
3:AC:71:ARG:N	3:AC:72:PRO:CD	2.65	0.59
4:AD:54:LEU:C	4:AD:54:LEU:HD23	2.22	0.59
6:AF:53:LYS:O	6:AF:54:LEU:CB	2.47	0.59
11:AK:80:ASN:HB3	11:AK:105:ARG:CB	2.31	0.59
17:AQ:11:VAL:O	17:AQ:12:VAL:HG12	2.02	0.59
17:AQ:49:ASN:O	17:AQ:51:GLU:N	2.35	0.59
22:AV:17:C:O3'	22:AV:18:G:C4'	2.50	0.59
1:BA:1092:A:N6	1:BA:1093:A:C6	2.70	0.59
1:BA:1101:A:H1'	1:BA:1102:A:O4'	2.02	0.59
1:BA:1250:A:C8	1:BA:1287:A:N7	2.70	0.59
1:BA:1444:U:C2'	1:BA:1445:U:O5'	2.50	0.59
1:BA:341:C:O2	1:BA:349:A:C2	2.55	0.59
3:BC:166:TRP:CE3	3:BC:166:TRP:C	2.75	0.59
10:BJ:67:ILE:HG12	14:BN:96:LEU:HA	1.83	0.59
17:BQ:11:VAL:HG23	17:BQ:56:ASP:O	2.01	0.59
21:BU:13:VAL:O	21:BU:15:LEU:CD1	2.50	0.59
25:CA:1306:C:O2	25:CA:1306:C:H2'	2.01	0.59
25:CA:2343:U:H2'	25:CA:2344:U:C6	2.37	0.59
25:CA:2346:A:H3'	25:CA:2347:C:H5''	1.84	0.59
25:CA:2480:C:C2'	25:CA:2481:G:H5'	2.32	0.59
25:CA:2506:U:C2'	25:CA:2507:C:H5'	2.32	0.59
25:CA:2550:G:H2'	25:CA:2551:C:H5'	1.84	0.59
25:CA:2549:G:N2	25:CA:2560:A:C4	2.69	0.59
27:CC:16:VAL:N	27:CC:203:VAL:HG22	2.16	0.59
30:CF:107:VAL:HG12	30:CF:108:PRO:HD3	1.83	0.59
30:CF:116:LEU:HD23	30:CF:175:PRO:HB2	1.82	0.59
32:CH:117:LEU:HD12	32:CH:118:PRO:HD2	1.83	0.59
33:CI:125:THR:HG22	33:CI:126:ARG:N	2.15	0.59
36:CL:85:VAL:HG11	36:CL:95:LEU:HD23	1.84	0.59
25:DA:1178:C:C3'	25:DA:1179:G:C8	2.85	0.59
25:DA:1178:C:C2'	25:DA:1179:G:C8	2.85	0.59
25:DA:141:G:H3'	25:DA:142:A:C8	2.36	0.59
25:DA:1588:G:N1	25:DA:1589:U:C4	2.70	0.59
25:DA:686:U:OP2	60:DA:3726:HOH:O	2.16	0.59
25:DA:878:A:N6	25:DA:900:A:C8	2.69	0.59
30:DF:3:LEU:H	30:DF:3:LEU:HD23	1.67	0.59
41:DQ:67:ALA:HB2	41:DQ:98:ALA:HB1	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DU:6:ARG:O	45:DU:24:VAL:HB	2.02	0.59
1:AA:208:U:H5	1:AA:210:C:C5	2.21	0.59
1:AA:721:G:C6	1:AA:733:G:C2	2.90	0.59
2:AB:14:HIS:CB	2:AB:208:ALA:HB2	2.32	0.59
5:AE:150:GLU:O	5:AE:153:ALA:HB3	2.02	0.59
6:AF:70:VAL:HA	6:AF:73:GLU:CG	2.32	0.59
6:AF:70:VAL:HA	6:AF:73:GLU:HG3	1.84	0.59
12:AL:2:THR:HG22	12:AL:4:ASN:CB	2.32	0.59
13:AM:3:ILE:HD11	13:AM:9:PRO:HG3	1.83	0.59
1:BA:376:G:C4	1:BA:377:G:C8	2.89	0.59
1:BA:678:U:O2'	1:BA:679:C:H5'	2.03	0.59
1:BA:78:A:N6	1:BA:79:G:C6	2.70	0.59
2:BB:118:THR:O	2:BB:119:GLN:CB	2.49	0.59
3:BC:76:ILE:CA	3:BC:83:VAL:HG23	2.32	0.59
6:BF:19:PRO:HA	6:BF:22:ILE:CG1	2.32	0.59
16:BP:79:ASN:ND2	16:BP:82:ALA:HB3	2.17	0.59
20:BT:32:LYS:O	20:BT:33:LYS:C	2.40	0.59
21:BU:13:VAL:HG12	21:BU:15:LEU:HD23	1.82	0.59
25:CA:1064:C:H2'	25:CA:1064:C:O2	2.02	0.59
25:CA:1606:C:O2'	25:CA:1607:C:H5'	2.02	0.59
27:CC:156:SER:O	27:CC:194:VAL:HG11	2.02	0.59
28:CD:39:ASP:OD2	28:CD:40:LEU:HB2	2.01	0.59
32:CH:119:ASN:N	32:CH:120:GLY:CA	2.65	0.59
39:CO:76:LYS:HE3	39:CO:80:GLU:OE2	2.02	0.59
49:CY:13:GLU:C	49:CY:15:ASN:H	2.05	0.59
25:DA:1374:G:C2	25:DA:1375:U:C2	2.90	0.59
25:DA:1754:A:C6	25:DA:1755:A:C6	2.90	0.59
25:DA:570:G:H2'	25:DA:2030:A:N7	2.16	0.59
25:DA:2119:A:N6	25:DA:2167:U:H1'	2.17	0.59
25:DA:564:C:O4'	41:DQ:36:GLN:NE2	2.34	0.59
28:DD:104:VAL:HG23	28:DD:105:LYS:H	1.66	0.59
32:DH:9:VAL:O	32:DH:10:ALA:C	2.39	0.59
34:DJ:117:ALA:C	34:DJ:119:PHE:H	2.05	0.59
36:DL:4:ASN:C	36:DL:5:THR:CG2	2.71	0.59
38:DN:103:ARG:HB2	38:DN:110:MET:HE2	1.82	0.59
40:DP:31:VAL:CG2	40:DP:32:VAL:N	2.65	0.59
1:AA:1202:U:C2'	1:AA:1203:C:H5'	2.32	0.59
1:AA:170:U:O2'	1:AA:171:A:C5'	2.50	0.59
1:AA:196:A:N3	1:AA:222:C:H1'	2.17	0.59
1:AA:373:A:C2	1:AA:482:A:C6	2.91	0.59
1:AA:982:U:H4'	1:AA:983:A:O5'	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:106:VAL:H	2:AB:108:GLN:HG2	1.67	0.59
2:AB:15:PHE:O	2:AB:40:ILE:HD12	2.01	0.59
4:AD:28:ASP:O	4:AD:30:LYS:HD3	2.02	0.59
12:AL:2:THR:CG2	12:AL:4:ASN:HB2	2.31	0.59
17:AQ:51:GLU:H	17:AQ:51:GLU:CD	2.06	0.59
21:AU:24:LYS:CD	21:AU:25:ALA:H	2.15	0.59
22:AV:21:A:C5	22:AV:48:C:C5	2.91	0.59
1:BA:110:C:C4	1:BA:111:G:C5	2.90	0.59
1:BA:1358:U:OP1	14:BN:75:ARG:HB2	2.02	0.59
1:BA:181:A:N6	1:BA:194:C:H2'	2.16	0.59
1:BA:98:A:H2'	1:BA:99:C:O4'	2.03	0.59
2:BB:90:PHE:CD2	2:BB:90:PHE:O	2.55	0.59
3:BC:52:SER:O	3:BC:53:ARG:CB	2.50	0.59
4:BD:137:SER:O	4:BD:140:ASP:HB2	2.02	0.59
4:BD:172:VAL:O	4:BD:173:ASP:HB3	2.01	0.59
4:BD:86:GLY:HA3	4:BD:196:GLU:HB3	1.84	0.59
6:BF:71:ILE:CG2	6:BF:72:ASP:N	2.66	0.59
11:BK:61:ALA:O	11:BK:64:VAL:HG13	2.02	0.59
20:BT:43:LYS:HE2	20:BT:85:LEU:O	2.02	0.59
25:CA:1203:U:C4	25:CA:1204:A:C5	2.90	0.59
25:CA:1392:A:H61	44:CT:18:GLU:CD	2.06	0.59
25:CA:1742:U:H2'	25:CA:1743:G:O5'	2.01	0.59
25:CA:870:U:C2'	25:CA:871:U:H5'	2.33	0.59
26:CB:73:A:C4	26:CB:104:A:C2	2.90	0.59
29:CE:18:THR:CG2	29:CE:19:PHE:CE2	2.85	0.59
33:CI:74:PRO:HG2	33:CI:77:VAL:CG1	2.32	0.59
25:CA:2674:G:H4'	35:CK:30:ARG:HD2	1.83	0.59
25:DA:1096:A:C6	25:DA:1097:U:C5	2.90	0.59
25:DA:1609:A:O2'	25:DA:1610:A:H5'	2.03	0.59
25:DA:1310:G:H1'	25:DA:1611:C:H5'	1.84	0.59
25:DA:1883:U:H2'	25:DA:1884:G:O5'	2.01	0.59
25:DA:2337:G:C5	25:DA:2338:C:C5	2.89	0.59
25:DA:2345:G:C6	25:DA:2381:A:C6	2.91	0.59
30:DF:56:LEU:HD21	30:DF:151:LEU:HD22	1.85	0.59
31:DG:42:VAL:HA	31:DG:43:LYS:HE2	1.83	0.59
36:DL:57:LEU:HA	36:DL:60:ARG:HD2	1.84	0.59
44:DT:58:VAL:HG22	44:DT:85:VAL:HG22	1.84	0.59
49:DY:45:GLN:O	49:DY:46:VAL:C	2.38	0.59
1:AA:482:A:C2	1:AA:483:C:H1'	2.38	0.59
1:AA:657:U:O2	1:AA:657:U:H2'	2.02	0.59
1:AA:749:A:C2	1:AA:750:C:C2	2.91	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:18:GLN:HG2	2:AB:189:ASN:HD22	1.68	0.59
6:AF:51:ILE:O	6:AF:51:ILE:HG12	2.02	0.59
8:AH:35:ILE:HD11	8:AH:125:ILE:HG21	1.82	0.59
13:AM:21:ILE:CB	13:AM:24:VAL:HG22	2.33	0.59
13:AM:25:GLY:O	13:AM:26:LYS:C	2.40	0.59
1:BA:1060:U:C4	3:BC:1:GLY:N	2.61	0.59
1:BA:1368:A:H2'	1:BA:1369:C:H6	1.66	0.59
1:BA:820:U:H4'	1:BA:821:G:OP2	2.02	0.59
1:BA:979:C:C5	1:BA:980:C:C5	2.90	0.59
1:BA:1057:G:O3'	3:BC:196:GLY:HA3	2.02	0.59
8:BH:29:SER:O	8:BH:30:LYS:C	2.41	0.59
11:BK:19:VAL:HG13	11:BK:82:GLU:O	2.02	0.59
17:BQ:47:ASP:OD2	17:BQ:47:ASP:N	2.35	0.59
25:CA:1141:U:H4'	25:CA:1142:A:O4'	2.03	0.59
25:CA:2133:G:C2'	25:CA:2158:A:H61	2.14	0.59
25:CA:2171:A:O2'	25:CA:2172:U:H5'	2.02	0.59
25:CA:2799:A:O2'	25:CA:2800:A:H5'	2.01	0.59
25:CA:771:G:C2'	25:CA:772:C:H5'	2.33	0.59
30:CF:90:LEU:HB3	30:CF:95:MET:HA	1.85	0.59
25:CA:626:A:H2'	36:CL:78:ARG:NH1	2.17	0.59
36:CL:85:VAL:CG1	36:CL:94:THR:HG22	2.31	0.59
42:CR:51:VAL:HG23	42:CR:52:PRO:HD2	1.83	0.59
49:CY:23:ARG:O	49:CY:24:GLU:O	2.20	0.59
25:DA:1105:U:H2'	25:DA:1106:G:C8	2.37	0.59
25:DA:1199:U:H2'	25:DA:1200:C:C6	2.38	0.59
25:DA:1483:G:C4	25:DA:1484:U:C5	2.90	0.59
25:DA:1856:U:O2'	25:DA:1857:G:H5'	2.02	0.59
25:DA:22:C:C2'	25:DA:23:G:O5'	2.50	0.59
25:DA:897:C:H2'	25:DA:898:C:C6	2.37	0.59
25:DA:664:G:H4'	25:DA:941:A:OP1	2.01	0.59
25:DA:976:G:OP2	60:DA:3594:HOH:O	2.17	0.59
28:DD:158:GLY:O	28:DD:159:LYS:C	2.41	0.59
29:DE:200:LEU:N	29:DE:200:LEU:HD13	2.18	0.59
43:DS:43:ALA:O	43:DS:47:VAL:HG12	2.02	0.59
25:DA:328:U:O3'	45:DU:65:GLN:HG3	2.02	0.59
50:DZ:9:THR:HG22	50:DZ:53:MET:CA	2.32	0.59
1:AA:1286:U:H5'	1:AA:1287:A:OP2	2.02	0.59
1:AA:1293:C:H5'	1:AA:1294:G:OP2	2.03	0.59
1:AA:513:C:O2'	1:AA:514:C:O5'	2.21	0.59
2:AB:151:LYS:HG3	2:AB:152:ASP:O	2.02	0.59
2:AB:185:ILE:HG13	2:AB:185:ILE:O	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:52:LEU:HD22	10:AJ:62:ARG:HG2	1.83	0.59
12:AL:43:LYS:CB	12:AL:44:PRO:CD	2.80	0.59
10:AJ:52:LEU:HB3	14:AN:81:ARG:NE	2.18	0.59
15:AO:86:LEU:N	15:AO:86:LEU:CD2	2.65	0.59
22:AV:47:U:H2'	22:AV:47:U:O2	2.01	0.59
1:BA:1262:C:C5	1:BA:1263:C:C5	2.90	0.59
1:BA:1471:U:C2'	1:BA:1472:U:H5'	2.32	0.59
1:BA:1503:A:C8	1:BA:1531:A:H1'	2.38	0.59
1:BA:557:G:H3'	1:BA:558:G:C8	2.38	0.59
1:BA:73:C:H1'	1:BA:74:A:H5'	1.85	0.59
2:BB:99:MET:HB3	2:BB:106:VAL:HG21	1.84	0.59
2:BB:205:ALA:C	2:BB:207:ARG:N	2.55	0.59
2:BB:84:LEU:HG	2:BB:84:LEU:O	2.03	0.59
4:BD:173:ASP:O	4:BD:174:ALA:HB3	2.03	0.59
4:BD:202:LEU:C	4:BD:202:LEU:HD12	2.23	0.59
5:BE:149:PRO:HB3	8:BH:98:LEU:HD21	1.85	0.59
8:BH:31:LEU:O	8:BH:31:LEU:HD12	2.01	0.59
10:BJ:22:THR:HA	10:BJ:25:ILE:HG21	1.84	0.59
10:BJ:58:ASN:O	10:BJ:60:ASP:N	2.34	0.59
20:BT:31:ILE:HG12	20:BT:53:MET:HE3	1.84	0.59
20:BT:5:SER:OG	20:BT:6:ALA:N	2.33	0.59
25:CA:125:A:OP2	53:C2:19:ARG:HD3	2.02	0.59
25:CA:102:U:C5	49:CY:2:LYS:HD2	2.38	0.59
25:CA:1060:U:OP1	25:CA:1062:G:H4'	2.03	0.59
25:CA:1585:C:H2'	25:CA:1586:A:C5'	2.32	0.59
25:CA:2102:G:N2	25:CA:2188:U:H1'	2.16	0.59
28:CD:99:GLU:HA	28:CD:99:GLU:OE1	2.01	0.59
32:CH:32:PRO:O	32:CH:33:GLN:HB2	2.02	0.59
33:CI:37:PHE:CD1	33:CI:41:PHE:HB2	2.36	0.59
25:DA:1436:G:C2	25:DA:1557:C:O2	2.56	0.59
25:DA:1483:G:C5	25:DA:1484:U:C5	2.90	0.59
25:DA:1556:C:C2'	25:DA:1557:C:H5'	2.32	0.59
25:DA:1712:U:C6	25:DA:1713:A:C8	2.90	0.59
25:DA:1867:G:C2'	25:DA:1868:C:H5'	2.32	0.59
25:DA:1971:U:C6	25:DA:1971:U:H3'	2.38	0.59
25:DA:2262:U:OP1	57:DW:37:ARG:NH2	2.36	0.59
25:DA:2383:G:H2'	25:DA:2384:U:C6	2.37	0.59
25:DA:2478:A:N3	25:DA:2529:G:H2'	2.17	0.59
25:DA:537:G:N1	25:DA:555:G:C2	2.70	0.59
25:DA:637:A:H4'	25:DA:638:G:O5'	2.02	0.59
32:DH:2:GLN:CB	32:DH:39:ALA:HB3	2.33	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:79:ALA:HB1	39:DO:113:ALA:CB	2.32	0.59
1:AA:115:G:H4'	1:AA:116:A:O5'	2.01	0.59
1:AA:1268:G:C6	1:AA:1269:A:N6	2.71	0.59
1:AA:159:G:C5'	1:AA:159:G:H8	2.16	0.59
1:AA:198:G:C6	1:AA:220:G:C2	2.91	0.59
1:AA:481:G:H2'	1:AA:483:C:N4	2.18	0.59
1:AA:572:A:H5'	1:AA:573:A:OP2	2.03	0.59
2:AB:70:GLY:HA2	2:AB:163:ILE:CG2	2.32	0.59
2:AB:20:ARG:O	2:AB:22:TRP:HD1	1.84	0.59
3:AC:154:GLY:HA2	3:AC:163:ARG:H	1.68	0.59
6:AF:60:VAL:HG12	6:AF:60:VAL:O	2.02	0.59
7:AG:145:GLU:O	7:AG:148:LYS:HB3	2.02	0.59
10:AJ:80:THR:HG22	10:AJ:82:LYS:H	1.67	0.59
14:AN:49:GLN:OE1	14:AN:49:GLN:HA	2.01	0.59
17:AQ:3:LYS:O	17:AQ:3:LYS:HD2	2.03	0.59
19:AS:50:VAL:HG22	19:AS:70:LEU:HD12	1.84	0.59
24:AY:33:ALA:O	24:AY:34:SER:CB	2.50	0.59
1:BA:1355:G:C4	1:BA:1368:A:C2	2.91	0.59
1:BA:1499:A:C2'	1:BA:1500:A:O5'	2.49	0.59
1:BA:152:A:N6	1:BA:170:U:C2	2.71	0.59
1:BA:206:C:H2'	1:BA:207:C:H4'	1.84	0.59
1:BA:92:U:H5'	1:BA:93:U:OP2	2.03	0.59
1:BA:969:A:C5	1:BA:970:C:C5	2.91	0.59
2:BB:169:HIS:HA	2:BB:172:ILE:HD12	1.84	0.59
4:BD:178:GLU:HG2	4:BD:179:GLY:N	2.17	0.59
20:BT:66:ILE:C	20:BT:67:HIS:CD2	2.76	0.59
22:BV:38:A:H2'	22:BV:39:U:O5'	2.03	0.59
25:CA:2256:G:C2'	25:CA:2257:U:O5'	2.50	0.59
25:CA:2286:G:H5'	25:CA:2286:G:C8	2.38	0.59
25:CA:47:C:C2'	25:CA:48:G:H5'	2.32	0.59
25:CA:624:C:O2'	25:CA:657:U:OP1	2.19	0.59
25:CA:735:A:C8	25:CA:736:C:C5	2.91	0.59
25:CA:841:G:H2'	25:CA:842:U:C6	2.38	0.59
25:CA:971:G:OP1	25:CA:974:G:O2'	2.17	0.59
37:CM:31:PHE:CE2	37:CM:110:GLU:HB2	2.38	0.59
38:CN:21:PHE:CE2	38:CN:24:MET:CE	2.85	0.59
25:DA:1219:U:O2'	25:DA:1220:G:H5'	2.02	0.59
25:DA:2793:C:O2	25:DA:2794:C:C5	2.56	0.59
25:DA:383:C:N3	25:DA:391:A:N6	2.49	0.59
25:DA:540:C:O2'	25:DA:541:A:H5'	2.02	0.59
25:DA:56:A:C2'	25:DA:57:C:O5'	2.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:659:G:H4'	29:DE:95:LYS:HB3	1.84	0.59
25:DA:920:A:H2'	25:DA:921:C:H6	1.66	0.59
25:DA:947:A:HO2'	25:DA:984:A:H2	0.77	0.59
27:DC:175:LEU:HD12	27:DC:179:GLU:HB3	1.83	0.59
25:DA:673:C:H5''	29:DE:76:PRO:HD2	1.85	0.59
32:DH:1:MET:HG3	32:DH:2:GLN:N	2.18	0.59
36:DL:82:LEU:HD23	36:DL:82:LEU:C	2.22	0.59
40:DP:57:ALA:CB	40:DP:73:PHE:O	2.51	0.59
45:DU:72:PHE:CE2	45:DU:74:ALA:HA	2.37	0.59
1:AA:1040:U:H2'	1:AA:1041:G:C8	2.38	0.59
1:AA:1141:C:C2	1:AA:1142:G:C8	2.91	0.59
1:AA:390:U:C2'	1:AA:391:G:O5'	2.51	0.59
1:AA:463:U:H2'	1:AA:463:U:O2	2.01	0.59
1:AA:723:U:H5'	1:AA:724:G:O5'	2.02	0.59
2:AB:125:PHE:N	2:AB:125:PHE:CD2	2.70	0.59
4:AD:138:PRO:O	4:AD:139:ASN:HB2	2.01	0.59
4:AD:150:LYS:HA	4:AD:177:MET:HE1	1.85	0.59
11:AK:52:ARG:O	11:AK:55:ARG:CG	2.51	0.59
24:AY:145:LYS:HE2	24:AY:145:LYS:H	1.68	0.59
1:BA:1113:C:O2	1:BA:1114:C:C6	2.56	0.59
1:BA:25:C:C4	1:BA:558:G:N2	2.71	0.59
1:BA:693:G:C2	23:BX:13:A:N6	2.71	0.59
1:BA:738:C:C2	1:BA:739:C:C5	2.91	0.59
2:BB:49:PHE:HD1	2:BB:53:LEU:HD23	1.68	0.59
4:BD:145:ARG:CZ	4:BD:147:LYS:HE3	2.33	0.59
13:BM:79:LEU:CD2	13:BM:84:CYS:SG	2.91	0.59
15:BO:63:ARG:NH1	15:BO:87:ARG:NH2	2.50	0.59
22:BV:45:U:H5''	22:BV:46:G:OP2	2.03	0.59
25:CA:1055:G:H3'	25:CA:1056:G:C8	2.38	0.59
25:CA:1059:G:C6	25:CA:1080:A:C2	2.90	0.59
25:CA:528:A:H2	25:CA:2043:C:H5'	1.66	0.59
25:CA:2112:G:H2'	25:CA:2112:G:N3	2.17	0.59
25:CA:580:U:H2'	25:CA:581:C:C6	2.38	0.59
29:CE:152:GLU:HA	29:CE:152:GLU:OE1	2.02	0.59
31:CG:126:THR:HG22	31:CG:127:GLN:N	2.18	0.59
36:CL:110:VAL:N	36:CL:111:ILE:HD12	2.17	0.59
40:CP:20:ARG:HB2	40:CP:21:PRO:HD2	1.83	0.59
25:DA:1018:U:C4	25:DA:1019:U:C5	2.91	0.59
25:DA:145:C:C4	25:DA:146:A:N7	2.71	0.59
25:DA:1473:G:N2	25:DA:1519:G:C4	2.70	0.59
25:DA:1529:G:C6	25:DA:1543:G:N2	2.71	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1998:A:H2'	25:DA:1999:C:C6	2.36	0.59
25:DA:2425:A:H5''	25:DA:2427:C:O4'	2.03	0.59
25:DA:278:A:C2	25:DA:362:A:H1'	2.37	0.59
25:DA:284:U:O2	25:DA:284:U:H2'	2.03	0.59
25:DA:2861:U:O2'	25:DA:2862:G:H5'	2.02	0.59
28:DD:56:LYS:HB2	28:DD:59:ARG:HB2	1.85	0.59
28:DD:62:LYS:HB2	28:DD:63:PRO:HD3	1.84	0.59
30:DF:110:ILE:HB	30:DF:113:PHE:HB2	1.83	0.59
30:DF:116:LEU:O	30:DF:117:SER:C	2.41	0.59
41:DQ:97:ILE:HG22	41:DQ:105:PHE:HB2	1.84	0.59
1:AA:149:A:H1'	1:AA:1446:A:C2	2.37	0.59
1:AA:222:C:O2	1:AA:222:C:H2'	2.02	0.59
1:AA:256:U:H2'	1:AA:257:G:C8	2.37	0.59
2:AB:69:VAL:HG22	2:AB:91:VAL:HB	1.85	0.59
3:AC:166:TRP:CE3	3:AC:166:TRP:C	2.76	0.59
3:AC:6:PRO:HD2	3:AC:183:TYR:CD2	2.38	0.59
5:AE:108:GLY:HA2	5:AE:111:ARG:CB	2.33	0.59
7:AG:121:ASN:O	7:AG:124:SER:HB3	2.02	0.59
9:AI:62:LEU:N	9:AI:62:LEU:CD2	2.65	0.59
12:AL:98:ARG:HA	12:AL:103:CYS:SG	2.42	0.59
14:AN:4:SER:O	14:AN:8:ARG:HG3	2.03	0.59
17:AQ:21:VAL:HG22	17:AQ:22:VAL:N	2.18	0.59
19:AS:4:LEU:O	19:AS:5:LYS:CG	2.51	0.59
24:AY:141:LYS:O	24:AY:145:LYS:CE	2.51	0.59
1:BA:1268:G:O2'	1:BA:1269:A:H5'	2.02	0.59
1:BA:1323:G:H2'	1:BA:1324:A:H8	1.68	0.59
1:BA:1345:U:C2	1:BA:1377:A:C6	2.90	0.59
1:BA:1356:G:O2'	1:BA:1357:A:H5'	2.03	0.59
1:BA:594:U:C2	1:BA:595:A:C8	2.91	0.59
1:BA:620:C:H1'	4:BD:131:ILE:HD13	1.84	0.59
1:BA:688:G:O2'	1:BA:704:A:N1	2.26	0.59
5:BE:152:VAL:HG23	5:BE:156:ARG:HB3	1.85	0.59
7:BG:11:ILE:HD13	7:BG:27:ASN:HD21	1.68	0.59
8:BH:16:GLY:O	8:BH:19:ALA:N	2.36	0.59
10:BJ:7:ARG:HD3	10:BJ:75:ASP:OD1	2.02	0.59
54:C3:8:GLY:O	54:C3:12:ARG:HG3	2.02	0.59
25:CA:2019:A:H2'	25:CA:2020:A:O5'	2.03	0.59
25:CA:2637:U:H2'	25:CA:2638:G:H5'	1.84	0.59
25:CA:995:C:H5'	25:CA:995:C:H6	1.66	0.59
27:CC:158:GLY:N	27:CC:194:VAL:HG13	2.18	0.59
29:CE:178:VAL:HG13	29:CE:179:SER:N	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CL:101:ILE:O	36:CL:105:ILE:HG13	2.03	0.59
37:CM:27:SER:O	37:CM:28:PHE:CD2	2.56	0.59
25:CA:58:G:OP1	44:CT:78:SER:CB	2.51	0.59
25:DA:121:G:H2'	25:DA:122:G:C8	2.38	0.59
25:DA:1404:C:O2	25:DA:1405:U:C6	2.56	0.59
25:DA:1520:U:C2'	25:DA:1521:G:H5'	2.32	0.59
25:DA:1738:G:HO2'	25:DA:1739:A:P	2.24	0.59
25:DA:1268:A:C2	25:DA:2013:A:C4	2.91	0.59
25:DA:2163:A:OP1	25:DA:2171:A:C8	2.56	0.59
31:DG:45:ALA:O	31:DG:46:ASP:CB	2.51	0.59
33:DI:74:PRO:HG2	33:DI:77:VAL:HG21	1.85	0.59
38:DN:49:GLU:N	38:DN:50:PRO:HD2	2.18	0.59
44:DT:2:ILE:HG23	44:DT:3:ARG:C	2.22	0.59
1:AA:1145:A:C2'	1:AA:1146:A:OP2	2.49	0.59
1:AA:1333:A:C2'	1:AA:1334:G:O5'	2.50	0.59
1:AA:882:C:C2'	1:AA:883:C:O5'	2.50	0.59
1:AA:922:G:N1	1:AA:923:A:C2	2.71	0.59
2:AB:135:MET:N	2:AB:135:MET:SD	2.75	0.59
2:AB:110:ILE:HD11	2:AB:150:ILE:HG12	1.85	0.59
13:AM:74:MET:SD	30:CF:111:ARG:HD3	2.43	0.59
14:AN:73:PHE:CD1	14:AN:74:LEU:N	2.71	0.59
22:AV:33:U:H2'	22:AV:35:A:OP2	2.03	0.59
1:BA:1122:U:C2	1:BA:1123:U:C5	2.91	0.59
1:BA:951:G:C2	1:BA:1231:G:C2	2.91	0.59
1:BA:1267:C:H2'	1:BA:1268:G:H5'	1.84	0.59
1:BA:283:U:H2'	1:BA:284:C:C6	2.38	0.59
1:BA:386:C:H2'	1:BA:387:U:H5'	1.83	0.59
1:BA:978:A:HO2'	1:BA:1322:C:H5	1.49	0.59
3:BC:153:SER:HB2	3:BC:164:THR:HG22	1.84	0.59
1:BA:1206:G:H4'	3:BC:191:THR:O	2.02	0.59
4:BD:57:LYS:HB2	4:BD:199:ILE:HD12	1.84	0.59
5:BE:21:SER:HB2	5:BE:30:PHE:CD2	2.38	0.59
7:BG:115:MET:O	7:BG:119:LEU:HB2	2.02	0.59
11:BK:80:ASN:HB3	11:BK:105:ARG:HG2	1.84	0.59
11:BK:124:LYS:CE	11:BK:125:LYS:HA	2.32	0.59
13:BM:38:ILE:HG13	13:BM:55:LEU:HD11	1.83	0.59
54:C3:44:ARG:N	54:C3:45:PRO:HD2	2.18	0.59
25:CA:1182:G:H2'	25:CA:1183:U:O4'	2.01	0.59
25:CA:1251:C:OP2	41:CQ:5:ARG:HD2	2.02	0.59
25:CA:2307:G:C2	25:CA:2311:A:H2'	2.37	0.59
25:CA:946:C:P	60:CA:3348:HOH:O	2.57	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:103:ASP:O	28:CD:105:LYS:N	2.36	0.59
32:CH:10:ALA:O	32:CH:12:LEU:N	2.35	0.59
33:CI:28:GLY:O	33:CI:34:ILE:HD11	2.03	0.59
36:CL:127:VAL:HG11	36:CL:132:ARG:HB2	1.84	0.59
25:DA:1063:G:N3	33:DI:89:SER:OG	2.35	0.59
25:DA:2703:C:C4	25:DA:2704:C:C5	2.91	0.59
25:DA:2742:G:C2'	25:DA:2743:U:H5'	2.33	0.59
28:DD:104:VAL:O	28:DD:105:LYS:HB2	2.01	0.59
32:DH:116:ARG:CG	32:DH:133:GLN:HG3	2.31	0.59
32:DH:116:ARG:HD2	32:DH:133:GLN:CG	2.32	0.59
33:DI:9:LYS:HB2	33:DI:55:PRO:HB3	1.83	0.59
39:DO:47:VAL:HG23	39:DO:48:LEU:N	2.17	0.59
42:DR:39:LEU:CD1	42:DR:39:LEU:N	2.65	0.59
43:DS:51:LEU:O	43:DS:55:ILE:HG13	2.02	0.59
1:AA:1180:A:OP1	9:AI:104:THR:HG23	2.03	0.59
1:AA:708:C:H2'	1:AA:709:U:H6	1.68	0.59
1:AA:718:A:C2'	1:AA:719:C:H5'	2.33	0.59
1:AA:79:G:N2	1:AA:91:U:C4	2.71	0.59
5:AE:108:GLY:O	5:AE:109:ALA:HB3	2.03	0.59
7:AG:119:LEU:CD2	7:AG:123:LEU:HD23	2.32	0.59
8:AH:13:ILE:O	8:AH:15:ASN:N	2.36	0.59
14:AN:15:LEU:O	14:AN:17:ASP:N	2.35	0.59
17:AQ:12:VAL:HG13	17:AQ:21:VAL:HG13	1.84	0.59
18:AR:39:VAL:HG13	18:AR:40:PRO:HD2	1.83	0.59
11:AK:126:ARG:HB2	21:AU:33:ARG:HD2	1.84	0.59
1:BA:1122:U:C4	1:BA:1123:U:C5	2.91	0.59
1:BA:1514:G:O2'	1:BA:1515:G:H5'	2.03	0.59
1:BA:211:G:N3	1:BA:212:G:H1'	2.17	0.59
1:BA:735:C:H2'	1:BA:736:C:H6	1.68	0.59
1:BA:825:A:O2'	1:BA:826:C:H5'	2.03	0.59
2:BB:79:VAL:HA	2:BB:213:LEU:HD21	1.84	0.59
6:BF:49:TYR:HB2	6:BF:50:PRO:CD	2.33	0.59
18:BR:24:ASP:HB2	18:BR:27:THR:HB	1.84	0.59
20:BT:66:ILE:HG23	20:BT:67:HIS:N	2.18	0.59
1:BA:107:G:O6	20:BT:9:ARG:HD3	2.03	0.59
21:BU:9:GLU:HG3	21:BU:10:PRO:HD3	1.84	0.59
54:C3:3:ILE:O	54:C3:63:TYR:HE2	1.86	0.59
25:CA:1046:A:C4'	25:CA:1046:A:OP2	2.50	0.59
25:CA:366:C:H2'	25:CA:367:G:O4'	2.03	0.59
25:CA:582:A:C2	25:CA:1259:G:C2	2.90	0.59
29:CE:111:GLU:OE1	29:CE:111:GLU:CA	2.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:41:LYS:HA	32:CH:44:ILE:HG12	1.85	0.59
35:CK:122:VAL:OXT	35:CK:122:VAL:HG12	2.03	0.59
36:CL:110:VAL:O	36:CL:111:ILE:C	2.42	0.59
36:CL:67:THR:O	36:CL:67:THR:HG22	2.02	0.59
25:CA:1287:A:C5'	38:CN:103:ARG:HD2	2.27	0.59
39:CO:106:LEU:C	39:CO:106:LEU:HD23	2.23	0.59
49:CY:13:GLU:C	49:CY:15:ASN:N	2.55	0.59
25:DA:1057:A:C2	25:DA:1058:U:C5	2.90	0.59
25:DA:1415:U:O2	25:DA:1415:U:H2'	2.03	0.59
25:DA:2211:A:H1'	25:DA:2212:A:OP1	2.03	0.59
25:DA:2803:G:H2'	25:DA:2804:U:C6	2.38	0.59
25:DA:606:U:H4'	25:DA:658:U:H4'	1.83	0.59
56:DB:89:U:H5''	56:DB:89:U:O2	2.03	0.59
30:DF:151:LEU:HD12	30:DF:152:ASP:N	2.17	0.59
32:DH:62:LEU:HD23	32:DH:135:HIS:NE2	2.17	0.59
36:DL:68:SER:O	36:DL:69:ARG:HB2	2.03	0.59
25:DA:626:A:H2'	36:DL:78:ARG:NH1	2.18	0.59
37:DM:2:LEU:HB3	37:DM:68:PHE:CE1	2.38	0.59
43:DS:20:VAL:CG2	43:DS:43:ALA:CB	2.81	0.59
43:DS:69:LEU:C	43:DS:70:LYS:HD2	2.23	0.59
46:DV:76:ASP:HB3	46:DV:90:ASP:HB2	1.84	0.59
46:DV:9:ARG:CG	46:DV:41:GLU:HB3	2.33	0.59
1:AA:1271:A:H5'	1:AA:1314:C:C5'	2.31	0.58
1:AA:194:C:C2'	1:AA:195:A:H5'	2.33	0.58
1:AA:208:U:C5	1:AA:210:C:C5	2.91	0.58
1:AA:36:C:OP1	12:AL:119:LYS:HE3	2.03	0.58
1:AA:386:C:C2'	1:AA:387:U:H5'	2.33	0.58
1:AA:634:C:H2'	1:AA:635:A:O4'	2.03	0.58
1:AA:833:G:C5	1:AA:834:U:C5	2.91	0.58
1:AA:882:C:H2'	1:AA:883:C:O5'	2.04	0.58
1:AA:1367:C:H5''	10:AJ:62:ARG:NH1	2.18	0.58
11:AK:81:LEU:CD2	11:AK:81:LEU:N	2.65	0.58
1:BA:109:A:H4'	1:BA:110:C:OP2	2.03	0.58
1:BA:1295:U:H2'	1:BA:1296:C:C6	2.38	0.58
1:BA:1431:A:C6	1:BA:1432:G:C6	2.91	0.58
1:BA:192:A:H2'	1:BA:193:C:H5'	1.85	0.58
1:BA:290:C:O2'	1:BA:291:U:H5'	2.02	0.58
1:BA:594:U:H3'	1:BA:595:A:H8	1.67	0.58
1:BA:66:A:C4'	1:BA:173:U:C5	2.86	0.58
1:BA:577:G:C8	1:BA:816:A:C6	2.91	0.58
2:BB:90:PHE:O	2:BB:149:GLY:HA3	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:114:LEU:O	3:BC:117:ASP:N	2.36	0.58
5:BE:105:ILE:HD11	5:BE:123:LEU:CD2	2.32	0.58
10:BJ:66:GLU:CG	14:BN:99:ALA:HB2	2.32	0.58
12:BL:76:HIS:O	12:BL:77:SER:CB	2.50	0.58
13:BM:7:ASN:ND2	13:BM:9:PRO:HG3	2.17	0.58
17:BQ:13:SER:O	17:BQ:20:ILE:HD12	2.02	0.58
25:CA:1120:G:C2'	25:CA:1121:C:H5'	2.33	0.58
25:CA:197:A:H62	25:CA:2430:A:H2'	1.67	0.58
25:CA:998:C:H2'	25:CA:999:U:O5'	2.03	0.58
37:CM:113:ALA:O	37:CM:114:ARG:C	2.41	0.58
41:CQ:23:TYR:O	41:CQ:24:TYR:HB3	2.03	0.58
42:CR:53:PHE:CD1	42:CR:53:PHE:N	2.69	0.58
47:CW:37:ARG:HG3	47:CW:37:ARG:NH1	2.18	0.58
48:CX:20:ALA:O	48:CX:21:LEU:HB2	2.02	0.58
25:DA:1371:G:O2'	25:DA:1372:U:H5'	2.03	0.58
25:DA:1709:U:O2'	25:DA:1710:G:H5'	2.03	0.58
25:DA:1794:A:H2'	25:DA:1795:C:C6	2.38	0.58
25:DA:2547:A:H2'	25:DA:2548:U:H6	1.66	0.58
25:DA:2738:A:N3	25:DA:2738:A:H2'	2.17	0.58
25:DA:992:C:O2'	25:DA:993:G:H5'	2.03	0.58
56:DB:77:U:C2'	56:DB:78:A:H5'	2.33	0.58
30:DF:12:VAL:O	30:DF:16:MET:HG2	2.02	0.58
34:DJ:130:HIS:ND1	34:DJ:130:HIS:O	2.36	0.58
42:DR:67:GLY:HA3	42:DR:93:PHE:CE2	2.39	0.58
43:DS:43:ALA:O	43:DS:44:ALA:C	2.39	0.58
43:DS:59:GLU:HG3	43:DS:66:ILE:CD1	2.33	0.58
44:DT:9:LYS:O	44:DT:11:LEU:N	2.35	0.58
1:AA:622:A:H2'	1:AA:623:C:H5'	1.83	0.58
4:AD:125:ASN:HA	4:AD:141:VAL:CG2	2.32	0.58
5:AE:68:ARG:HH11	5:AE:68:ARG:HG3	1.68	0.58
17:AQ:13:SER:HB2	17:AQ:21:VAL:HG11	1.84	0.58
1:BA:436:C:H2'	1:BA:437:U:H6	1.67	0.58
1:BA:466:A:H2'	1:BA:468:A:H2	1.67	0.58
2:BB:57:ASN:HA	2:BB:60:ALA:HB3	1.85	0.58
8:BH:110:MET:HB3	8:BH:114:ALA:HB1	1.84	0.58
9:BI:49:GLN:HA	9:BI:52:GLU:OE2	2.01	0.58
10:BJ:36:VAL:HA	10:BJ:76:ILE:HA	1.84	0.58
12:BL:23:LEU:HG	12:BL:24:GLU:N	2.17	0.58
12:BL:42:LYS:HE3	12:BL:43:LYS:HD3	1.83	0.58
12:BL:43:LYS:CB	12:BL:44:PRO:HD3	2.33	0.58
17:BQ:13:SER:C	17:BQ:16:MET:HE1	2.24	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:34:VAL:HG11	20:BT:78:LEU:CD1	2.32	0.58
20:BT:35:TYR:CE2	20:BT:36:ALA:HB2	2.38	0.58
25:CA:1073:A:C2'	25:CA:1074:G:H5''	2.34	0.58
25:CA:1281:G:N2	25:CA:1290:C:C2	2.71	0.58
30:CF:62:GLN:NE2	30:CF:94:ARG:HD3	2.18	0.58
33:CI:5:GLN:O	33:CI:6:ALA:CB	2.51	0.58
37:CM:46:ILE:HD12	37:CM:69:PRO:HD3	1.85	0.58
25:DA:1165:A:H2'	25:DA:1166:G:C8	2.38	0.58
25:DA:1167:C:C2'	25:DA:1168:G:H5''	2.33	0.58
25:DA:1711:A:C2'	25:DA:1712:U:H5'	2.33	0.58
25:DA:1738:G:O2'	25:DA:1739:A:O5'	2.21	0.58
25:DA:2306:C:H3'	25:DA:2307:G:H5''	1.84	0.58
25:DA:2648:G:H2'	25:DA:2649:C:C6	2.38	0.58
25:DA:2887:A:H5'	25:DA:2888:C:OP2	2.03	0.58
25:DA:480:A:OP2	45:DU:43:LYS:HE2	2.02	0.58
25:DA:500:G:N2	25:DA:502:A:H3'	2.18	0.58
25:DA:973:A:OP2	42:DR:81:LYS:NZ	2.36	0.58
56:DB:61:G:C6	56:DB:62:C:N3	2.71	0.58
33:DI:19:PRO:HB2	33:DI:22:PRO:HD2	1.84	0.58
36:DL:106:GLU:C	36:DL:107:PHE:HD2	2.06	0.58
44:DT:30:ILE:HD11	44:DT:32:LEU:HD21	1.85	0.58
45:DU:12:VAL:HG12	45:DU:18:LYS:HA	1.84	0.58
1:AA:1532:U:C4	1:AA:1533:C:N4	2.71	0.58
1:AA:327:A:O3'	1:AA:328:C:H4'	2.02	0.58
2:AB:165:ALA:HB2	2:AB:186:VAL:HG12	1.85	0.58
4:AD:122:ILE:N	4:AD:122:ILE:CD1	2.66	0.58
9:AI:119:LYS:O	9:AI:120:ALA:HB3	2.03	0.58
9:AI:20:ILE:HD13	9:AI:86:LEU:HD12	1.85	0.58
11:AK:95:THR:O	11:AK:99:LEU:HD22	2.03	0.58
12:AL:80:LEU:HB2	12:AL:101:LEU:HD22	1.84	0.58
12:AL:93:ARG:C	12:AL:94:TYR:CD2	2.77	0.58
14:AN:46:LEU:O	14:AN:48:LEU:N	2.36	0.58
16:AP:16:PHE:C	16:AP:16:PHE:CD1	2.75	0.58
21:AU:24:LYS:HD3	21:AU:25:ALA:N	2.18	0.58
22:AV:21:A:C6	22:AV:46:G:C4	2.91	0.58
22:AV:50:U:C2	22:AV:51:U:C5	2.92	0.58
1:BA:1388:C:H2'	1:BA:1389:C:C6	2.38	0.58
1:BA:164:G:H2'	1:BA:165:G:H5'	1.85	0.58
1:BA:867:G:H2'	1:BA:868:C:H6	1.69	0.58
2:BB:17:HIS:O	2:BB:188:THR:HG23	2.03	0.58
2:BB:53:LEU:CD1	2:BB:219:THR:HG21	2.32	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:95:TRP:CZ3	2:BB:96:LEU:O	2.56	0.58
5:BE:121:ASN:CG	5:BE:122:VAL:N	2.56	0.58
6:BF:19:PRO:HA	6:BF:22:ILE:HG13	1.85	0.58
25:CA:1288:G:C5	25:CA:1327:A:C2	2.91	0.58
25:CA:1919:A:H2'	25:CA:1919:A:N3	2.18	0.58
25:CA:2720:U:OP1	40:CP:52:ARG:NH2	2.37	0.58
25:CA:440:C:O2'	25:CA:441:U:H5'	2.02	0.58
25:CA:656:G:C2'	25:CA:657:U:O5'	2.52	0.58
25:CA:928:A:O2'	25:CA:929:U:H5'	2.02	0.58
26:CB:48:U:P	39:CO:30:ARG:HH22	2.26	0.58
27:CC:161:VAL:CG1	27:CC:162:GLN:N	2.66	0.58
25:CA:1902:C:H4'	27:CC:241:LYS:O	2.03	0.58
33:CI:70:THR:C	33:CI:71:LYS:HD2	2.24	0.58
25:DA:1018:U:C2	25:DA:1019:U:C6	2.91	0.58
25:DA:1323:C:C2'	25:DA:1324:G:O5'	2.51	0.58
25:DA:1392:A:C6	25:DA:1393:A:C6	2.91	0.58
25:DA:1538:G:C2	25:DA:1539:U:C6	2.91	0.58
25:DA:1719:G:N2	25:DA:1742:U:H1'	2.18	0.58
25:DA:1866:A:N3	25:DA:1876:A:C5	2.71	0.58
25:DA:2199:A:H1'	32:DH:28:ASN:HD21	1.67	0.58
25:DA:2258:C:H4'	25:DA:2259:U:OP2	2.04	0.58
25:DA:2341:G:H2'	25:DA:2342:C:C6	2.38	0.58
25:DA:247:G:H4'	25:DA:386:G:C4	2.37	0.58
25:DA:368:A:C2'	25:DA:369:U:H5'	2.33	0.58
29:DE:23:PHE:CG	29:DE:111:GLU:HG3	2.39	0.58
29:DE:176:ASP:OD1	29:DE:179:SER:HB3	2.03	0.58
32:DH:59:ALA:O	32:DH:62:LEU:HB3	2.02	0.58
35:DK:58:LEU:N	35:DK:58:LEU:HD23	2.18	0.58
37:DM:70:ASP:OD1	37:DM:70:ASP:C	2.42	0.58
40:DP:21:PRO:HA	40:DP:46:VAL:HG12	1.84	0.58
1:AA:1292:G:H2'	1:AA:1293:C:O4'	2.03	0.58
1:AA:209:U:H5''	1:AA:210:C:OP2	2.02	0.58
1:AA:259:G:C6	1:AA:260:G:C5	2.90	0.58
1:AA:271:C:H2'	1:AA:272:C:C6	2.38	0.58
1:AA:277:C:O2'	1:AA:278:G:H5'	2.02	0.58
1:AA:412:A:C1'	1:AA:413:G:H5''	2.34	0.58
1:AA:602:A:O2'	1:AA:603:U:H5'	2.03	0.58
1:AA:739:C:C4	1:AA:740:U:C5	2.91	0.58
1:AA:93:U:H2'	1:AA:94:G:H5'	1.83	0.58
2:AB:158:ASP:O	2:AB:181:PRO:HD2	2.04	0.58
2:AB:56:LEU:HD21	2:AB:220:VAL:HG22	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:96:VAL:CB	3:AC:97:PRO:CD	2.81	0.58
4:AD:158:LEU:O	4:AD:161:ALA:HB3	2.03	0.58
9:AI:96:GLU:N	9:AI:96:GLU:CD	2.57	0.58
16:AP:19:VAL:HG13	16:AP:38:PHE:CA	2.31	0.58
16:AP:3:THR:HG22	16:AP:4:ILE:N	2.19	0.58
16:AP:6:LEU:HD13	16:AP:71:VAL:HG23	1.85	0.58
17:AQ:11:VAL:O	17:AQ:12:VAL:CB	2.51	0.58
21:AU:11:PHE:N	21:AU:11:PHE:HD2	2.01	0.58
21:AU:36:PHE:HB3	21:AU:40:PRO:HG3	1.85	0.58
1:BA:1022:A:C6	1:BA:1023:U:C4	2.91	0.58
1:BA:1062:U:C2'	1:BA:1063:C:C6	2.83	0.58
1:BA:1142:G:C4	1:BA:1143:G:H1'	2.38	0.58
1:BA:448:A:C8	1:BA:487:A:C6	2.92	0.58
1:BA:459:A:H2'	1:BA:460:A:C8	2.39	0.58
2:BB:165:ALA:HB2	2:BB:186:VAL:HG12	1.86	0.58
20:BT:24:ARG:O	20:BT:28:ARG:HG2	2.02	0.58
25:CA:1075:C:H2'	25:CA:1076:C:C6	2.39	0.58
25:CA:1979:U:O2'	25:CA:1980:G:H5'	2.03	0.58
25:CA:2782:G:C2'	25:CA:2783:U:H5'	2.32	0.58
25:CA:417:C:C2'	25:CA:418:C:O5'	2.50	0.58
26:CB:20:G:N2	26:CB:64:G:C4	2.72	0.58
27:CC:259:ASN:CG	27:CC:262:THR:HG23	2.24	0.58
37:CM:43:ALA:O	37:CM:46:ILE:N	2.36	0.58
38:CN:2:ARG:O	38:CN:3:HIS:C	2.42	0.58
42:CR:102:SER:O	42:CR:103:ALA:O	2.22	0.58
49:CY:13:GLU:O	49:CY:15:ASN:N	2.36	0.58
49:CY:21:LEU:O	49:CY:22:LEU:O	2.21	0.58
25:DA:1538:G:C8	25:DA:1538:G:OP2	2.56	0.58
25:DA:1748:C:C2'	25:DA:1749:A:O5'	2.51	0.58
25:DA:2114:A:C5	25:DA:2167:U:H4'	2.38	0.58
30:DF:24:VAL:O	30:DF:27:VAL:HG12	2.04	0.58
39:DO:33:ARG:O	39:DO:34:HIS:CB	2.51	0.58
44:DT:54:GLU:HB3	44:DT:88:LYS:HG3	1.85	0.58
1:AA:1005:A:H2'	1:AA:1006:G:O4'	2.04	0.58
1:AA:1259:C:H5''	1:AA:1260:G:OP2	2.03	0.58
1:AA:142:G:N3	1:AA:142:G:H2'	2.18	0.58
1:AA:925:G:O4'	1:AA:1502:A:C2	2.57	0.58
1:AA:502:A:H2'	1:AA:503:C:C6	2.39	0.58
1:AA:505:G:H4'	1:AA:534:U:C4	2.38	0.58
2:AB:66:ILE:HB	2:AB:88:GLN:HB3	1.85	0.58
3:AC:52:SER:O	3:AC:53:ARG:CB	2.49	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:11:VAL:O	17:AQ:12:VAL:HB	2.04	0.58
17:AQ:54:ILE:HD13	17:AQ:55:GLY:N	2.18	0.58
19:AS:61:VAL:HA	19:AS:65:MET:SD	2.44	0.58
21:AU:11:PHE:CD2	21:AU:11:PHE:N	2.71	0.58
1:BA:1003:G:N2	1:BA:1004:A:O2'	2.37	0.58
1:BA:112:G:H2'	1:BA:113:G:H5'	1.84	0.58
1:BA:435:A:C2'	1:BA:436:C:O5'	2.51	0.58
2:BB:32:GLY:O	2:BB:33:ALA:HB2	2.02	0.58
5:BE:148:SER:CB	5:BE:151:MET:HG3	2.31	0.58
6:BF:47:LEU:CD1	6:BF:51:ILE:HG23	2.32	0.58
8:BH:88:LYS:HG3	8:BH:89:ASP:N	2.18	0.58
1:BA:718:A:H5'	11:BK:118:ASN:ND2	2.19	0.58
14:BN:41:ARG:NH1	14:BN:45:VAL:HG11	2.19	0.58
14:BN:64:CYS:SG	14:BN:83:LYS:HG3	2.44	0.58
15:BO:34:GLN:HE22	15:BO:38:LEU:HD22	1.69	0.58
15:BO:44:GLU:HG2	15:BO:45:HIS:N	2.18	0.58
20:BT:53:MET:O	20:BT:56:ILE:HG22	2.02	0.58
1:BA:1527:U:OP2	21:BU:38:GLU:CG	2.51	0.58
22:BV:7:A:H3'	22:BV:8:U:H5'	1.86	0.58
25:CA:1405:U:H2'	25:CA:1406:U:O4'	2.03	0.58
25:CA:1835:G:N7	60:CA:3473:HOH:O	2.31	0.58
25:CA:2499:C:OP2	60:CA:3692:HOH:O	2.17	0.58
25:CA:2592:G:H2'	25:CA:2593:U:H5'	1.85	0.58
25:CA:277:G:H1'	25:CA:361:G:O6	2.03	0.58
30:CF:40:GLY:O	30:CF:43:ILE:HD13	2.02	0.58
31:CG:148:ARG:HH21	31:CG:166:GLU:CD	2.07	0.58
35:CK:113:MET:HA	35:CK:116:ILE:HG13	1.86	0.58
38:CN:48:VAL:HG12	38:CN:49:GLU:N	2.18	0.58
43:CS:63:GLY:O	43:CS:64:ALA:HB3	2.04	0.58
49:CY:28:LEU:HD23	49:CY:37:LEU:CD2	2.33	0.58
25:DA:1063:G:H3'	25:DA:1064:C:C5	2.39	0.58
25:DA:1350:C:N4	25:DA:1351:C:N4	2.52	0.58
25:DA:2097:A:H2'	25:DA:2098:U:H6	1.69	0.58
25:DA:2193:G:C2	25:DA:2194:U:C4	2.91	0.58
25:DA:2690:U:C4	25:DA:2873:A:N1	2.72	0.58
25:DA:388:G:N7	25:DA:390:U:H2'	2.18	0.58
29:DE:1:MET:HG3	29:DE:14:VAL:HG23	1.85	0.58
31:DG:148:ARG:HA	31:DG:161:VAL:CG1	2.33	0.58
32:DH:34:GLY:O	32:DH:35:LYS:CB	2.50	0.58
34:DJ:81:ILE:HG12	34:DJ:82:GLY:N	2.19	0.58
37:DM:125:PRO:HG2	37:DM:126:ILE:HG23	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DP:18:SER:O	40:DP:19:PHE:HB3	2.02	0.58
57:DW:17:LEU:HD22	57:DW:35:ARG:HB3	1.86	0.58
1:AA:1114:C:O2	1:AA:1114:C:H2'	2.03	0.58
1:AA:1356:G:N2	1:AA:1357:A:C2	2.72	0.58
1:AA:1487:G:N2	1:AA:1488:G:H1'	2.19	0.58
1:AA:299:G:C6	1:AA:300:A:N1	2.71	0.58
1:AA:411:A:P	4:AD:25:ARG:HH22	2.26	0.58
1:AA:44:A:C2'	1:AA:45:G:H5'	2.33	0.58
1:AA:463:U:H5'	1:AA:464:U:OP2	2.03	0.58
2:AB:131:LYS:O	2:AB:133:ALA:N	2.37	0.58
4:AD:57:LYS:HB3	4:AD:199:ILE:HG22	1.86	0.58
6:AF:24:ARG:HG2	6:AF:24:ARG:HH11	1.69	0.58
8:AH:74:ILE:HD11	8:AH:128:VAL:HG22	1.83	0.58
10:AJ:40:ILE:CG2	10:AJ:73:LEU:HB2	2.33	0.58
11:AK:125:LYS:HD3	11:AK:125:LYS:N	2.18	0.58
1:AA:553:A:O4'	12:AL:27:PRO:HA	2.04	0.58
14:AN:15:LEU:O	14:AN:16:ALA:C	2.42	0.58
1:BA:50:A:N6	1:BA:361:G:H4'	2.18	0.58
1:BA:579:A:C2'	1:BA:580:C:H5'	2.33	0.58
1:BA:71:A:C2	1:BA:100:G:N9	2.72	0.58
8:BH:17:GLN:HG2	8:BH:62:LEU:HD13	1.85	0.58
9:BI:98:ARG:HA	9:BI:103:VAL:HG11	1.85	0.58
15:BO:73:ASP:CB	15:BO:76:ARG:HG3	2.34	0.58
18:BR:41:SER:HB3	18:BR:51:GLN:NE2	2.19	0.58
55:C4:25:VAL:HB	55:C4:35:GLN:HB2	1.85	0.58
25:CA:1508:A:O2'	25:CA:1509:A:O4'	2.22	0.58
29:CE:196:VAL:HA	29:CE:199:MET:HB2	1.85	0.58
32:CH:84:ALA:HB2	32:CH:90:LEU:HD12	1.86	0.58
25:CA:1063:G:N3	33:CI:135:MET:HA	2.18	0.58
33:CI:33:ASN:HB2	33:CI:36:GLU:CG	2.33	0.58
36:CL:76:GLU:HG3	36:CL:111:ILE:HG12	1.86	0.58
38:CN:103:ARG:CZ	38:CN:110:MET:HE2	2.34	0.58
45:CU:71:ILE:HD13	45:CU:82:VAL:HG23	1.86	0.58
25:DA:1351:C:C2	25:DA:1381:G:C2	2.91	0.58
25:DA:1350:C:N3	25:DA:1382:G:C2	2.71	0.58
25:DA:1394:U:H2'	25:DA:1395:A:O5'	2.04	0.58
25:DA:2170:A:H1'	25:DA:2171:A:C8	2.38	0.58
25:DA:905:A:H2'	25:DA:906:U:H5'	1.85	0.58
56:DB:41:G:C8	30:DF:65:LEU:HD11	2.37	0.58
33:DI:21:PRO:HB2	33:DI:22:PRO:HD3	1.85	0.58
1:AA:1061:G:C5	1:AA:1197:A:C2	2.92	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1253:G:N2	1:AA:1254:A:C4	2.72	0.58
1:AA:1309:G:OP1	13:AM:90:HIS:HE1	1.87	0.58
1:AA:27:G:C2'	1:AA:28:A:O5'	2.51	0.58
1:AA:601:G:H2'	1:AA:602:A:H8	1.67	0.58
3:AC:64:ARG:O	3:AC:99:GLN:O	2.22	0.58
5:AE:81:GLN:CG	5:AE:149:PRO:HB3	2.33	0.58
7:AG:49:LEU:HD11	7:AG:60:ALA:HB1	1.86	0.58
8:AH:31:LEU:CD1	8:AH:31:LEU:C	2.72	0.58
11:AK:21:HIS:CD2	11:AK:34:THR:CG2	2.86	0.58
16:AP:51:ARG:HB3	16:AP:51:ARG:NH1	2.19	0.58
22:AV:61:C:H2'	22:AV:62:C:C6	2.38	0.58
1:BA:1000:A:N3	1:BA:1041:G:N2	2.50	0.58
1:BA:279:A:H5''	1:BA:281:G:C5'	2.34	0.58
1:BA:707:U:H2'	1:BA:708:C:C6	2.38	0.58
1:BA:22:G:H4'	1:BA:885:G:C8	2.39	0.58
2:BB:182:VAL:O	2:BB:195:VAL:HG12	2.03	0.58
14:BN:61:ARG:O	14:BN:62:ASN:HB2	2.04	0.58
17:BQ:11:VAL:O	17:BQ:12:VAL:HB	2.02	0.58
21:BU:25:ALA:O	21:BU:26:GLY:C	2.42	0.58
21:BU:45:LYS:HG2	21:BU:45:LYS:O	2.03	0.58
25:CA:1589:U:H2'	25:CA:1590:A:H5'	1.85	0.58
25:CA:1988:G:O2'	25:CA:1989:G:H5'	2.04	0.58
25:CA:2183:A:H2'	25:CA:2184:A:C8	2.38	0.58
26:CB:45:A:C4	26:CB:46:A:C8	2.91	0.58
26:CB:73:A:N3	26:CB:73:A:H2'	2.18	0.58
29:CE:176:ASP:OD1	29:CE:176:ASP:C	2.42	0.58
30:CF:107:VAL:N	30:CF:108:PRO:CD	2.67	0.58
25:DA:1066:U:H1'	25:DA:1074:G:N2	2.18	0.58
25:DA:1257:C:H5'	29:DE:78:TRP:CZ3	2.39	0.58
25:DA:1269:A:H2'	25:DA:1270:C:C6	2.39	0.58
25:DA:1542:U:H2'	25:DA:1543:G:O5'	2.04	0.58
25:DA:188:G:H2'	25:DA:189:G:H5'	1.86	0.58
25:DA:2114:A:OP2	25:DA:2115:G:N7	2.37	0.58
25:DA:2335:A:C8	25:DA:2337:G:C5	2.92	0.58
25:DA:2666:C:C6	25:DA:2667:C:C5	2.92	0.58
25:DA:2707:U:H2'	25:DA:2707:U:O2	2.03	0.58
25:DA:545:U:C6	25:DA:547:A:O3'	2.57	0.58
27:DC:13:ARG:HG2	27:DC:14:HIS:ND1	2.18	0.58
27:DC:50:THR:CG2	27:DC:53:ILE:HD11	2.32	0.58
29:DE:48:THR:OG1	29:DE:50:ALA:HB3	2.04	0.58
30:DF:105:ILE:HD11	30:DF:138:PRO:HG2	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:114:GLU:OE2	32:DH:134:VAL:HA	2.04	0.58
33:DI:50:LYS:HD3	33:DI:50:LYS:N	2.19	0.58
35:DK:105:ARG:O	35:DK:108:ARG:HB3	2.03	0.58
35:DK:21:CYS:HA	35:DK:41:ILE:HG22	1.85	0.58
37:DM:49:ALA:CB	37:DM:124:LEU:HD21	2.34	0.58
37:DM:114:ARG:HG2	37:DM:130:PHE:CE1	2.39	0.58
40:DP:58:PHE:O	40:DP:72:VAL:HA	2.03	0.58
45:DU:8:ASP:O	45:DU:23:LYS:HA	2.03	0.58
49:DY:1:MET:HG2	49:DY:5:GLU:OE2	2.04	0.58
1:AA:1338:G:H1'	22:AV:41:C:O2'	2.03	0.58
1:AA:514:C:H2'	1:AA:515:G:O5'	2.04	0.58
1:AA:595:A:C4	1:AA:641:U:C4	2.91	0.58
1:AA:706:A:C2'	1:AA:707:U:H5'	2.34	0.58
1:AA:723:U:H5'	1:AA:724:G:P	2.44	0.58
2:AB:49:PHE:CD1	2:AB:49:PHE:C	2.76	0.58
2:AB:60:ALA:HA	2:AB:64:GLY:HA3	1.85	0.58
1:AA:620:C:H1'	4:AD:131:ILE:HD11	1.85	0.58
4:AD:31:CYS:SG	4:AD:33:ILE:N	2.77	0.58
7:AG:14:ASP:HB2	7:AG:19:SER:HB3	1.86	0.58
12:AL:75:GLU:O	12:AL:76:HIS:HB2	2.02	0.58
19:AS:8:PRO:HB2	19:AS:40:PHE:CZ	2.38	0.58
19:AS:73:PHE:CD1	19:AS:73:PHE:N	2.72	0.58
1:AA:108:G:C6	20:AT:9:ARG:HG2	2.39	0.58
11:AK:124:LYS:C	21:AU:33:ARG:HH21	2.06	0.58
1:BA:1176:A:H2'	1:BA:1177:G:O4'	2.04	0.58
1:BA:1272:G:C6	1:BA:1273:C:C4	2.92	0.58
1:BA:543:U:C2'	1:BA:544:G:H5'	2.34	0.58
1:BA:846:G:O2'	1:BA:847:G:H5'	2.04	0.58
2:BB:156:LEU:HD12	2:BB:180:ILE:HD11	1.85	0.58
2:BB:71:THR:HG22	2:BB:94:ARG:NH1	2.19	0.58
3:BC:21:TRP:HD1	3:BC:56:ILE:HG22	1.66	0.58
3:BC:66:THR:HG22	3:BC:67:ILE:N	2.19	0.58
5:BE:45:VAL:CG2	5:BE:117:ALA:HB2	2.33	0.58
5:BE:81:GLN:H	5:BE:146:MET:HE3	1.68	0.58
10:BJ:91:ASP:O	10:BJ:92:LEU:O	2.22	0.58
17:BQ:51:GLU:HG2	17:BQ:52:CYS:N	2.19	0.58
19:BS:6:LYS:CA	19:BS:6:LYS:HE2	2.33	0.58
25:CA:1054:A:H2'	25:CA:1054:A:N3	2.18	0.58
25:CA:1097:U:O2'	33:CI:8:VAL:HA	2.04	0.58
25:CA:1314:C:H2'	25:CA:1314:C:O2	2.02	0.58
25:CA:1313:U:H5''	25:CA:1314:C:OP2	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1490:A:N3	25:CA:1490:A:H2'	2.18	0.58
25:CA:1547:C:H2'	25:CA:1548:A:O4'	2.03	0.58
25:CA:1716:U:O2'	25:CA:1717:A:H5'	2.04	0.58
25:CA:1794:A:H2'	25:CA:1795:C:H6	1.68	0.58
25:CA:1873:G:H2'	25:CA:1874:C:H6	1.69	0.58
25:CA:2698:U:H2'	25:CA:2699:C:C6	2.39	0.58
25:CA:2801:G:H2'	25:CA:2802:G:H8	1.68	0.58
25:CA:1567:G:N7	27:CC:82:TYR:CE1	2.72	0.58
33:CI:44:LYS:O	33:CI:48:ILE:HG12	2.03	0.58
33:CI:74:PRO:HG2	33:CI:77:VAL:HG11	1.86	0.58
39:CO:75:GLY:O	39:CO:78:VAL:HG23	2.02	0.58
40:CP:24:THR:HG22	40:CP:25:VAL:N	2.18	0.58
44:CT:42:GLU:O	44:CT:45:ALA:HB3	2.04	0.58
25:CA:2091:C:O3'	48:CX:55:MET:HE1	2.03	0.58
25:DA:1178:C:H2'	25:DA:1179:G:N7	2.19	0.58
25:DA:1187:G:OP1	42:DR:85:LYS:CE	2.51	0.58
25:DA:1494:A:C2	25:DA:1495:A:N9	2.72	0.58
25:DA:230:G:N3	25:DA:231:A:C8	2.72	0.58
25:DA:2746:U:N3	25:DA:2747:G:C8	2.71	0.58
25:DA:317:G:C4	25:DA:318:C:C6	2.92	0.58
25:DA:981:A:C5'	60:DA:3598:HOH:O	2.51	0.58
28:DD:151:THR:HG22	28:DD:152:PRO:HD2	1.84	0.58
41:DQ:57:ARG:HA	41:DQ:60:TRP:CE3	2.39	0.58
1:AA:89:U:O2'	1:AA:90:C:H5''	2.04	0.58
2:AB:88:GLN:HE21	2:AB:220:VAL:HB	1.68	0.58
10:AJ:73:LEU:O	10:AJ:74:VAL:HB	2.04	0.58
13:AM:32:ILE:HD13	13:AM:58:GLU:CG	2.34	0.58
1:BA:1237:C:C6	1:BA:1336:C:N4	2.71	0.58
1:BA:978:A:C5	1:BA:1318:A:C6	2.92	0.58
1:BA:420:U:C2'	1:BA:421:U:H5''	2.34	0.58
2:BB:67:LEU:HD22	2:BB:69:VAL:HG23	1.85	0.58
4:BD:109:THR:O	4:BD:111:ALA:N	2.37	0.58
4:BD:28:ASP:O	4:BD:29:THR:HB	2.04	0.58
5:BE:109:ALA:O	5:BE:110:MET:CB	2.52	0.58
5:BE:124:ALA:O	5:BE:125:LYS:HB3	2.03	0.58
5:BE:94:PHE:CZ	5:BE:96:GLN:HG2	2.38	0.58
1:BA:642:A:C2	8:BH:104:SER:O	2.57	0.58
13:BM:89:ARG:HD2	13:BM:95:PRO:O	2.04	0.58
16:BP:3:THR:HG22	16:BP:66:THR:OG1	2.03	0.58
16:BP:79:ASN:O	16:BP:80:LYS:HB2	2.02	0.58
19:BS:43:MET:HA	19:BS:46:LEU:HD12	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BS:68:HIS:HB3	19:BS:72:GLU:OE2	2.03	0.58
20:BT:54:GLN:HB3	20:BT:55:PRO:CD	2.34	0.58
52:C1:28:THR:C	52:C1:29:LYS:HG2	2.24	0.58
25:CA:1526:C:C2'	25:CA:1527:G:O5'	2.52	0.58
25:CA:1968:G:H5''	60:CA:3468:HOH:O	2.02	0.58
25:CA:2128:G:O2'	25:CA:2129:C:H5'	2.04	0.58
25:CA:279:A:H2'	25:CA:280:U:H5'	1.84	0.58
25:CA:409:G:O2'	25:CA:410:G:H5'	2.04	0.58
33:CI:91:LYS:HB3	33:CI:94:LYS:CG	2.33	0.58
35:CK:113:MET:SD	35:CK:116:ILE:HD11	2.44	0.58
36:CL:116:VAL:O	36:CL:116:VAL:HG13	2.02	0.58
25:CA:2880:C:H1'	38:CN:91:ALA:O	2.04	0.58
45:CU:42:LYS:HG2	45:CU:59:GLU:HB2	1.85	0.58
54:D3:14:LYS:HB3	54:D3:22:LYS:HE2	1.84	0.58
25:DA:1448:G:C6	25:DA:1449:G:C5	2.92	0.58
25:DA:1526:C:C4	25:DA:1527:G:C5	2.92	0.58
25:DA:158:U:C2'	25:DA:159:G:H5'	2.33	0.58
25:DA:2125:G:N1	25:DA:2171:A:OP1	2.36	0.58
25:DA:261:G:N3	25:DA:261:G:H2'	2.18	0.58
27:DC:140:VAL:HG13	27:DC:190:THR:O	2.03	0.58
30:DF:37:MET:HE3	30:DF:151:LEU:HB3	1.84	0.58
30:DF:170:ALA:C	30:DF:172:PHE:H	2.07	0.58
31:DG:101:VAL:HG22	31:DG:115:GLN:OE1	2.03	0.58
32:DH:96:THR:HG22	32:DH:115:VAL:CG1	2.34	0.58
43:DS:63:GLY:O	43:DS:64:ALA:HB3	2.03	0.58
43:DS:66:ILE:N	43:DS:66:ILE:HD13	2.19	0.58
45:DU:5:ARG:O	45:DU:6:ARG:O	2.21	0.58
49:DY:28:LEU:CD1	49:DY:46:VAL:HG21	2.33	0.58
1:AA:956:U:H2'	1:AA:957:U:O4'	2.04	0.58
3:AC:86:LEU:O	3:AC:89:VAL:HG22	2.03	0.58
8:AH:48:PHE:O	8:AH:49:LYS:CB	2.51	0.58
9:AI:49:GLN:NE2	9:AI:79:ARG:NH1	2.52	0.58
22:AV:18:G:H4'	22:AV:19:G:OP1	2.03	0.58
1:BA:1162:C:H1'	1:BA:1175:G:N2	2.19	0.58
1:BA:1210:C:O4'	1:BA:1214:C:C4	2.57	0.58
1:BA:209:U:O2	1:BA:209:U:H2'	2.04	0.58
1:BA:328:C:H4'	1:BA:329:A:H5''	1.85	0.58
1:BA:466:A:H2'	1:BA:468:A:C2	2.38	0.58
1:BA:674:G:H4'	18:BR:69:TYR:CE1	2.38	0.58
7:BG:64:ALA:HB1	7:BG:126:ALA:HB1	1.85	0.58
7:BG:94:ARG:HA	7:BG:97:ALA:HB3	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:4:LYS:O	20:BT:6:ALA:N	2.36	0.58
21:BU:24:LYS:CG	21:BU:25:ALA:N	2.66	0.58
25:CA:117:G:C6	25:CA:119:A:C6	2.92	0.58
25:CA:2590:A:O2'	25:CA:2591:C:H5'	2.04	0.58
25:CA:61:C:C2	25:CA:94:A:C2	2.91	0.58
25:CA:846:U:H1'	25:CA:847:U:H5	1.69	0.58
27:CC:157:ALA:HB1	27:CC:196:ASN:O	2.04	0.58
30:CF:118:ALA:HA	30:CF:176:PHE:CE2	2.38	0.58
30:CF:57:ALA:HB2	30:CF:64:PRO:HD3	1.86	0.58
32:CH:3:VAL:HG12	32:CH:38:PRO:HA	1.86	0.58
36:CL:68:SER:O	36:CL:69:ARG:CB	2.52	0.58
40:CP:52:ARG:HH11	40:CP:52:ARG:HG2	1.69	0.58
41:CQ:90:ASP:O	41:CQ:94:LEU:HD12	2.03	0.58
43:CS:4:ILE:H	43:CS:4:ILE:HD12	1.68	0.58
44:CT:48:GLN:OE1	44:CT:54:GLU:HA	2.04	0.58
25:DA:1194:A:H2'	25:DA:1195:G:O5'	2.04	0.58
25:DA:1787:A:O4'	25:DA:2589:A:H4'	2.04	0.58
25:DA:2294:G:C2	25:DA:2295:C:C2	2.92	0.58
25:DA:2409:G:C6	25:DA:2410:G:C5	2.92	0.58
25:DA:402:A:H2'	25:DA:403:U:H5'	1.85	0.58
29:DE:148:ILE:CD1	29:DE:187:VAL:CG1	2.82	0.58
33:DI:126:ARG:HD3	33:DI:126:ARG:H	1.69	0.58
36:DL:91:ASP:HB3	36:DL:94:THR:CB	2.30	0.58
40:DP:52:ARG:H	40:DP:56:SER:HB3	1.68	0.58
45:DU:72:PHE:CZ	45:DU:77:GLY:HA2	2.39	0.58
50:DZ:6:ILE:HD11	50:DZ:47:ILE:HD11	1.85	0.58
1:AA:1162:C:C2	1:AA:1175:G:C2	2.92	0.57
1:AA:1309:G:C6	1:AA:1329:A:C6	2.92	0.57
1:AA:511:C:H1'	1:AA:512:U:C6	2.37	0.57
1:AA:87:C:C2'	1:AA:88:U:H5'	2.34	0.57
1:AA:91:U:C4	1:AA:92:U:C2	2.92	0.57
4:AD:52:VAL:CG2	4:AD:53:GLN:N	2.67	0.57
10:AJ:36:VAL:HA	10:AJ:75:ASP:O	2.04	0.57
12:AL:115:LYS:O	12:AL:116:TYR:HB2	2.03	0.57
17:AQ:57:VAL:HG12	17:AQ:78:VAL:HB	1.86	0.57
1:BA:1092:A:C6	1:BA:1093:A:C6	2.92	0.57
1:BA:1276:G:C5	1:BA:1277:C:C5	2.92	0.57
1:BA:145:G:C2'	1:BA:146:G:O5'	2.52	0.57
1:BA:1489:G:C4	1:BA:1490:U:C6	2.92	0.57
1:BA:112:G:C6	1:BA:330:C:C5	2.92	0.57
1:BA:993:G:H2'	1:BA:993:G:N3	2.19	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:160:LEU:CD2	4:BD:161:ALA:N	2.66	0.57
7:BG:41:ILE:HD13	7:BG:115:MET:HB3	1.85	0.57
8:BH:111:THR:O	8:BH:114:ALA:HB3	2.03	0.57
8:BH:20:ASN:HA	8:BH:64:TYR:CE2	2.39	0.57
14:BN:80:SER:O	14:BN:84:VAL:HG23	2.04	0.57
25:CA:1061:U:O4	33:CI:10:LEU:HA	2.04	0.57
25:CA:1072:C:OP2	25:CA:1075:C:N4	2.37	0.57
25:CA:108:G:H2'	25:CA:109:C:H5'	1.85	0.57
25:CA:1185:G:H5''	25:CA:1186:G:OP1	2.03	0.57
25:CA:1439:A:H2'	25:CA:1440:U:H5'	1.85	0.57
25:CA:187:G:H2'	25:CA:188:G:H5''	1.84	0.57
25:CA:2040:G:H2'	25:CA:2041:U:O4'	2.04	0.57
25:CA:225:C:C2	25:CA:231:A:C2	2.92	0.57
25:CA:2502:G:H5'	25:CA:2503:A:H5''	1.85	0.57
25:CA:790:U:O5'	25:CA:790:U:H2'	2.03	0.57
29:CE:122:GLU:O	29:CE:123:LYS:HD3	2.04	0.57
31:CG:53:PRO:HD3	31:CG:61:TRP:CH2	2.39	0.57
31:CG:97:VAL:HG12	31:CG:97:VAL:O	2.02	0.57
32:CH:40:THR:O	32:CH:42:LYS:N	2.37	0.57
36:CL:23:ILE:O	36:CL:25:SER:N	2.37	0.57
42:CR:29:THR:HG22	42:CR:29:THR:O	2.02	0.57
25:DA:1121:C:N3	25:DA:1122:G:C8	2.72	0.57
25:DA:1229:C:H2'	25:DA:1230:A:C8	2.39	0.57
25:DA:2094:A:C2	25:DA:2196:C:C2	2.91	0.57
25:DA:2295:C:C2'	25:DA:2296:U:O5'	2.52	0.57
25:DA:2819:G:H5''	60:DA:3816:HOH:O	2.03	0.57
25:DA:363:G:H2'	25:DA:364:C:C6	2.39	0.57
25:DA:618:G:N3	25:DA:618:G:H2'	2.18	0.57
25:DA:773:U:C5'	27:DC:46:GLY:HA3	2.34	0.57
25:DA:2591:C:OP2	27:DC:236:GLY:O	2.21	0.57
32:DH:59:ALA:O	32:DH:62:LEU:CB	2.51	0.57
33:DI:27:LEU:HD13	33:DI:37:PHE:CD2	2.38	0.57
36:DL:110:VAL:O	36:DL:111:ILE:O	2.22	0.57
36:DL:79:LEU:O	36:DL:81:ASP:O	2.22	0.57
43:DS:59:GLU:HA	43:DS:64:ALA:HB2	1.86	0.57
1:AA:1298:U:H4'	1:AA:1299:A:O5'	2.03	0.57
1:AA:294:U:C2	1:AA:295:C:C5	2.91	0.57
1:AA:995:C:N3	1:AA:1046:A:O2'	2.29	0.57
2:AB:114:LYS:O	2:AB:116:LEU:N	2.37	0.57
2:AB:53:LEU:CD1	2:AB:216:VAL:HA	2.34	0.57
4:AD:147:LYS:H	4:AD:147:LYS:CD	2.17	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:120:HIS:O	5:AE:121:ASN:HB3	2.04	0.57
5:AE:81:GLN:N	5:AE:146:MET:HE1	2.18	0.57
11:AK:41:LEU:HB3	11:AK:76:TYR:HE2	1.67	0.57
14:AN:35:ALA:HA	14:AN:41:ARG:HB3	1.86	0.57
16:AP:78:VAL:O	16:AP:80:LYS:N	2.37	0.57
17:AQ:57:VAL:C	17:AQ:58:VAL:HG12	2.25	0.57
17:AQ:80:LYS:N	17:AQ:80:LYS:HD3	2.19	0.57
20:AT:53:MET:HE3	20:AT:54:GLN:HA	1.86	0.57
1:BA:1009:U:H2'	1:BA:1010:U:H5'	1.86	0.57
1:BA:1010:U:H2'	1:BA:1011:C:H6	1.69	0.57
1:BA:149:A:C2	1:BA:150:U:C2	2.92	0.57
1:BA:423:G:H2'	1:BA:424:G:O4'	2.04	0.57
1:BA:736:C:H2'	1:BA:737:C:C6	2.38	0.57
2:BB:90:PHE:HE2	2:BB:148:GLY:O	1.87	0.57
2:BB:90:PHE:H	2:BB:149:GLY:HA3	1.68	0.57
3:BC:83:VAL:O	3:BC:86:LEU:HB2	2.03	0.57
8:BH:82:LEU:CD1	8:BH:84:ILE:HD11	2.34	0.57
11:BK:89:GLY:O	11:BK:90:PRO:O	2.22	0.57
25:CA:1059:G:OP2	25:CA:1060:U:C2'	2.52	0.57
25:CA:1475:G:N3	25:CA:1475:G:O4'	2.34	0.57
25:CA:1589:U:C2'	25:CA:1590:A:H5'	2.33	0.57
25:CA:1794:A:H2'	25:CA:1795:C:C6	2.39	0.57
25:CA:1869:G:O2'	25:CA:1872:A:N6	2.38	0.57
25:CA:2064:C:H2'	25:CA:2065:C:C6	2.40	0.57
25:CA:215:G:C4'	25:CA:216:A:H4'	2.34	0.57
25:CA:2327:A:H2'	25:CA:2328:A:C8	2.39	0.57
25:CA:2415:G:H4'	36:CL:66:PHE:HB3	1.86	0.57
25:CA:2480:C:H2'	25:CA:2481:G:H5'	1.86	0.57
27:CC:96:LYS:N	27:CC:96:LYS:HD2	2.18	0.57
30:CF:71:LYS:HD3	30:CF:72:SER:N	2.20	0.57
33:CI:115:ASP:O	33:CI:116:MET:HG2	2.05	0.57
33:CI:139:VAL:HG23	33:CI:141:ASP:HB2	1.86	0.57
36:CL:85:VAL:O	36:CL:86:GLU:O	2.22	0.57
40:CP:30:TRP:CD2	40:CP:39:LEU:CD1	2.87	0.57
42:CR:39:LEU:C	42:CR:49:ILE:HG23	2.25	0.57
25:DA:1043:C:C4	25:DA:1044:C:C4	2.92	0.57
25:DA:1312:U:H4'	25:DA:1313:U:O5'	2.05	0.57
25:DA:1356:G:C5	25:DA:1357:C:C5	2.92	0.57
25:DA:2344:U:H4'	25:DA:2345:G:OP1	2.04	0.57
25:DA:2383:G:H2'	25:DA:2384:U:H6	1.69	0.57
25:DA:2834:G:H2'	25:DA:2879:A:H61	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:53:A:H2'	25:DA:54:G:H5'	1.86	0.57
25:DA:630:G:H5''	25:DA:631:A:OP2	2.04	0.57
25:DA:819:A:H2'	25:DA:820:A:O5'	2.04	0.57
30:DF:151:LEU:HD11	30:DF:153:ILE:HD11	1.86	0.57
31:DG:43:LYS:CE	31:DG:43:LYS:N	2.67	0.57
33:DI:40:ALA:HB3	33:DI:68:PHE:CZ	2.39	0.57
39:DO:25:ARG:HG3	39:DO:27:VAL:HG23	1.85	0.57
1:AA:1031:C:C4'	1:AA:1032:G:H5''	2.31	0.57
1:AA:1074:G:H4'	2:AB:101:THR:HG23	1.86	0.57
1:AA:1479:C:C2	1:AA:1480:A:C8	2.93	0.57
1:AA:201:G:C2	1:AA:217:C:O2	2.58	0.57
1:AA:83:C:H4'	1:AA:83:C:OP1	2.04	0.57
5:AE:88:HIS:ND1	5:AE:137:ARG:HD3	2.18	0.57
8:AH:10:LEU:HD23	8:AH:10:LEU:N	2.19	0.57
9:AI:20:ILE:HD13	9:AI:86:LEU:CD1	2.33	0.57
10:AJ:9:ARG:O	10:AJ:98:VAL:HA	2.04	0.57
13:AM:16:ILE:O	13:AM:17:ALA:C	2.42	0.57
17:AQ:68:LYS:O	17:AQ:69:THR:CB	2.52	0.57
1:BA:1073:U:C2	1:BA:1074:G:C8	2.91	0.57
1:BA:1120:C:H2'	1:BA:1121:U:H6	1.69	0.57
1:BA:1130:A:C2'	1:BA:1131:G:H5'	2.35	0.57
1:BA:1273:C:C6	1:BA:1274:A:C8	2.92	0.57
1:BA:290:C:C2'	1:BA:291:U:H5'	2.34	0.57
1:BA:889:A:H4'	1:BA:890:G:OP1	2.05	0.57
4:BD:153:ARG:O	4:BD:157:ALA:HB2	2.05	0.57
11:BK:87:GLY:H	11:BK:113:THR:HG22	1.67	0.57
12:BL:2:THR:HG22	12:BL:4:ASN:H	1.69	0.57
20:BT:43:LYS:CD	20:BT:86:ALA:HA	2.33	0.57
22:BV:5:G:C2	22:BV:69:G:C2	2.92	0.57
52:C1:34:GLU:HG2	52:C1:49:LYS:HG3	1.84	0.57
25:CA:1045:C:H3'	25:CA:1046:A:C5'	2.33	0.57
25:CA:1587:G:C5	25:CA:1588:G:C8	2.92	0.57
31:CG:158:GLY:O	31:CG:159:LYS:C	2.43	0.57
31:CG:80:GLU:O	31:CG:81:GLY:O	2.23	0.57
32:CH:61:VAL:O	32:CH:64:ALA:CB	2.50	0.57
46:CV:70:ILE:HG22	46:CV:72:VAL:CG1	2.34	0.57
54:D3:44:ARG:N	54:D3:45:PRO:HD2	2.19	0.57
25:DA:1058:U:H2'	25:DA:1059:G:C8	2.39	0.57
25:DA:819:A:C4	25:DA:1189:A:C2	2.91	0.57
25:DA:1853:A:N1	25:DA:2087:G:H1'	2.19	0.57
25:DA:2323:G:O2'	25:DA:2324:U:H5'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2746:U:O4	25:DA:2747:G:C5	2.57	0.57
25:DA:665:U:C2	25:DA:666:A:C8	2.92	0.57
31:DG:39:ALA:HB2	31:DG:57:TYR:HB3	1.87	0.57
31:DG:8:VAL:CG2	31:DG:68:ARG:HD2	2.33	0.57
34:DJ:31:GLU:HB3	34:DJ:142:ILE:HG12	1.87	0.57
38:DN:33:ILE:HG13	38:DN:114:GLU:HB3	1.86	0.57
42:DR:49:ILE:CB	42:DR:53:PHE:N	2.68	0.57
1:AA:1287:A:N6	1:AA:1288:A:N6	2.52	0.57
1:AA:299:G:C6	1:AA:300:A:C2	2.92	0.57
1:AA:514:C:C2'	1:AA:515:G:O5'	2.52	0.57
1:AA:543:U:O2'	1:AA:544:G:H5'	2.04	0.57
1:AA:883:C:O2'	1:AA:884:U:H5'	2.04	0.57
2:AB:207:ARG:O	2:AB:209:VAL:N	2.37	0.57
2:AB:81:ASP:H	2:AB:84:LEU:HB3	1.69	0.57
1:AA:413:G:C2	4:AD:32:LYS:HD3	2.39	0.57
5:AE:114:LEU:O	5:AE:119:VAL:HG22	2.05	0.57
5:AE:152:VAL:O	5:AE:155:LYS:HB2	2.05	0.57
5:AE:158:LYS:O	8:AH:63:LYS:HE3	2.04	0.57
9:AI:11:ARG:HG2	9:AI:11:ARG:HH11	1.70	0.57
14:AN:29:ILE:O	14:AN:30:ILE:C	2.41	0.57
17:AQ:59:GLU:HG2	17:AQ:75:VAL:HG21	1.85	0.57
21:AU:38:GLU:N	21:AU:40:PRO:HD3	2.19	0.57
22:AV:21:A:C6	22:AV:48:C:C6	2.92	0.57
1:BA:1450:U:H2'	1:BA:1452:C:C5	2.39	0.57
1:BA:150:U:C4	1:BA:170:U:C5	2.93	0.57
1:BA:264:C:H2'	1:BA:265:G:O4'	2.05	0.57
1:BA:660:C:H2'	1:BA:661:G:O4'	2.04	0.57
4:BD:101:VAL:HG12	4:BD:113:ALA:HB1	1.85	0.57
14:BN:45:VAL:HG23	14:BN:46:LEU:H	1.67	0.57
14:BN:5:MET:HB3	14:BN:63:ARG:NH2	2.18	0.57
21:BU:46:ARG:HA	21:BU:49:ALA:HB3	1.86	0.57
25:CA:1066:U:O2	25:CA:1069:A:N7	2.38	0.57
25:CA:1071:G:C1'	25:CA:1089:A:N7	2.68	0.57
25:CA:2403:C:O2'	25:CA:2404:U:H5'	2.05	0.57
25:CA:2719:G:O2'	25:CA:2720:U:H5'	2.04	0.57
25:CA:2870:C:C4	25:CA:2871:U:C5	2.92	0.57
27:CC:259:ASN:O	27:CC:260:LYS:CB	2.52	0.57
29:CE:104:ALA:O	29:CE:108:ILE:CG2	2.52	0.57
13:AM:74:MET:SD	30:CF:111:ARG:HB2	2.45	0.57
30:CF:142:TYR:C	30:CF:145:VAL:HG22	2.24	0.57
38:CN:38:LEU:HB3	38:CN:39:PRO:CD	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CR:40:MET:CE	42:CR:48:LYS:HE2	2.34	0.57
45:CU:96:LYS:O	45:CU:97:SER:CB	2.51	0.57
54:D3:62:PRO:HG2	54:D3:63:TYR:CD2	2.39	0.57
25:DA:1029:A:C8	25:DA:1030:C:C6	2.92	0.57
25:DA:1097:U:H3'	25:DA:1098:A:O4'	2.03	0.57
25:DA:119:A:H4'	25:DA:120:U:O5'	2.04	0.57
25:DA:1401:G:N7	25:DA:1402:U:C5	2.73	0.57
25:DA:1869:G:N2	25:DA:1873:G:C6	2.72	0.57
25:DA:2125:G:C5'	25:DA:2126:A:OP2	2.53	0.57
25:DA:2291:U:O2'	25:DA:2292:U:H5'	2.03	0.57
25:DA:2315:G:H2'	25:DA:2316:G:O4'	2.04	0.57
25:DA:230:G:C2	25:DA:231:A:C8	2.93	0.57
25:DA:434:U:H4'	25:DA:435:C:OP1	2.03	0.57
25:DA:560:C:O2	41:DQ:47:ARG:NH1	2.36	0.57
25:DA:749:A:N1	25:DA:753:A:O2'	2.32	0.57
31:DG:29:ASN:CB	31:DG:78:VAL:HA	2.35	0.57
31:DG:71:LEU:HA	31:DG:74:MET:SD	2.44	0.57
43:DS:1:MET:HB3	43:DS:109:ASP:OD2	2.04	0.57
43:DS:67:ASP:N	43:DS:67:ASP:OD1	2.36	0.57
1:AA:104:G:C2'	1:AA:105:G:H5'	2.34	0.57
1:AA:1183:U:O4'	1:AA:1183:U:OP2	2.22	0.57
1:AA:1211:U:O2'	1:AA:1212:U:P	2.61	0.57
1:AA:244:U:H4'	1:AA:245:U:C5'	2.34	0.57
1:AA:244:U:H4'	1:AA:245:U:H5'	1.86	0.57
1:AA:624:C:C2'	1:AA:625:U:O5'	2.52	0.57
2:AB:143:LEU:H	2:AB:143:LEU:HD23	1.69	0.57
4:AD:176:LYS:HD3	4:AD:176:LYS:H	1.67	0.57
5:AE:93:VAL:HG21	5:AE:110:MET:CE	2.34	0.57
8:AH:82:LEU:HD22	8:AH:83:ARG:O	2.05	0.57
14:AN:20:PHE:CD2	14:AN:24:ALA:CB	2.87	0.57
14:AN:6:LYS:N	14:AN:6:LYS:HD3	2.20	0.57
16:AP:72:ALA:HA	16:AP:75:ILE:CD1	2.35	0.57
1:BA:1032:G:N3	1:BA:1032:G:H3'	2.19	0.57
1:BA:1049:U:H4'	1:BA:1050:G:OP2	2.05	0.57
1:BA:1073:U:H5'	1:BA:1074:G:OP2	2.05	0.57
1:BA:1245:C:O2'	1:BA:1246:A:H5'	2.04	0.57
1:BA:1345:U:H2'	60:BA:1831:HOH:O	2.05	0.57
1:BA:145:G:H2'	1:BA:146:G:O5'	2.04	0.57
1:BA:244:U:H4'	1:BA:245:U:C5'	2.35	0.57
1:BA:72:A:C6	1:BA:73:C:N4	2.72	0.57
1:BA:730:G:O2'	1:BA:766:A:H5'	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:185:ILE:HA	2:BB:199:ILE:HB	1.85	0.57
9:BI:128:LYS:CD	9:BI:129:ARG:H	2.18	0.57
9:BI:89:TYR:O	9:BI:93:LEU:HD21	2.04	0.57
10:BJ:18:ILE:HG23	10:BJ:19:ASP:N	2.18	0.57
12:BL:6:LEU:HD22	12:BL:11:ARG:HD2	1.85	0.57
13:BM:66:GLY:HA2	13:BM:69:ARG:CD	2.35	0.57
20:BT:66:ILE:HD11	20:BT:70:LYS:CD	2.33	0.57
53:C2:27:GLY:O	53:C2:30:VAL:HB	2.04	0.57
25:CA:1178:C:O3'	25:CA:1179:G:C8	2.58	0.57
25:CA:1414:C:C5	25:CA:1415:U:C5	2.93	0.57
25:CA:1420:A:O2'	25:CA:1421:G:H5'	2.03	0.57
25:CA:1873:G:O2'	25:CA:1874:C:H5'	2.04	0.57
25:CA:535:G:O2'	25:CA:536:G:H5'	2.04	0.57
28:CD:150:GLN:O	28:CD:153:GLY:CA	2.52	0.57
30:CF:134:GLN:O	30:CF:134:GLN:HG2	2.03	0.57
32:CH:34:GLY:O	32:CH:35:LYS:CB	2.53	0.57
35:CK:77:ILE:N	35:CK:77:ILE:CD1	2.67	0.57
42:CR:39:LEU:CA	42:CR:49:ILE:CG2	2.82	0.57
25:DA:1014:A:C2	25:DA:1149:G:C2	2.92	0.57
25:DA:1356:G:C2	25:DA:1357:C:C6	2.92	0.57
25:DA:1413:A:C2	25:DA:1414:C:C2	2.93	0.57
25:DA:146:A:H2'	25:DA:147:C:H6	1.70	0.57
25:DA:729:G:N3	25:DA:729:G:H2'	2.18	0.57
25:DA:969:G:H2'	25:DA:970:U:C6	2.40	0.57
28:DD:187:LEU:O	28:DD:188:LEU:HD23	2.04	0.57
29:DE:189:THR:HG22	29:DE:192:ALA:H	1.70	0.57
31:DG:112:VAL:CG1	31:DG:150:TYR:CE2	2.88	0.57
32:DH:43:ASN:O	32:DH:46:PHE:HB3	2.04	0.57
36:DL:90:VAL:HG11	36:DL:122:VAL:HG13	1.86	0.57
39:DO:14:ALA:O	39:DO:18:LEU:HD23	2.04	0.57
46:DV:28:ALA:HB3	46:DV:42:LEU:HD21	1.86	0.57
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.39	0.57
1:AA:419:C:C2'	1:AA:420:U:O5'	2.52	0.57
1:AA:435:A:C5	1:AA:436:C:C5	2.92	0.57
1:AA:439:U:C6	1:AA:440:C:C5	2.93	0.57
1:AA:625:U:O2'	1:AA:626:G:H5'	2.03	0.57
1:AA:883:C:C2'	1:AA:884:U:H5'	2.33	0.57
2:AB:115:ASP:O	2:AB:116:LEU:HB2	2.05	0.57
2:AB:202:ASN:OD1	2:AB:203:ASP:N	2.38	0.57
3:AC:141:MET:HE1	3:AC:147:GLY:HA2	1.86	0.57
3:AC:16:PRO:O	3:AC:17:TRP:HB2	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:147:LYS:HD3	4:AD:147:LYS:H	1.69	0.57
5:AE:96:GLN:HB2	5:AE:123:LEU:CD1	2.35	0.57
8:AH:53:ASP:CG	8:AH:54:THR:N	2.58	0.57
8:AH:58:LEU:HD13	8:AH:58:LEU:C	2.24	0.57
10:AJ:33:GLY:HA3	10:AJ:83:THR:HB	1.87	0.57
11:AK:123:PRO:O	11:AK:124:LYS:O	2.22	0.57
14:AN:30:ILE:HG22	14:AN:31:SER:N	2.20	0.57
21:AU:13:VAL:O	21:AU:15:LEU:CG	2.53	0.57
21:AU:28:LEU:C	21:AU:28:LEU:CD2	2.73	0.57
1:BA:1387:G:C6	1:BA:1388:C:C4	2.92	0.57
1:BA:189:A:C2'	1:BA:190:A:O5'	2.52	0.57
1:BA:211:G:O2'	1:BA:212:G:O4'	2.22	0.57
1:BA:735:C:H2'	1:BA:736:C:C6	2.39	0.57
1:BA:842:U:C2	1:BA:845:A:OP1	2.57	0.57
2:BB:49:PHE:HB2	2:BB:212:TYR:OH	2.05	0.57
2:BB:219:THR:H	2:BB:221:ARG:HD3	1.69	0.57
1:BA:430:A:H4'	4:BD:6:PRO:HG3	1.87	0.57
5:BE:95:MET:HE2	5:BE:114:LEU:HD21	1.84	0.57
5:BE:100:GLU:HA	5:BE:121:ASN:CB	2.34	0.57
6:BF:10:VAL:HG11	6:BF:18:VAL:CG2	2.34	0.57
6:BF:86:ARG:HG2	6:BF:86:ARG:HH11	1.69	0.57
9:BI:98:ARG:HA	9:BI:103:VAL:CG2	2.34	0.57
11:BK:100:ASN:C	11:BK:100:ASN:OD1	2.41	0.57
15:BO:20:ASP:OD2	15:BO:23:SER:HB2	2.05	0.57
15:BO:69:LEU:HD22	15:BO:77:TYR:HB2	1.87	0.57
20:BT:6:ALA:HB1	20:BT:9:ARG:HB2	1.86	0.57
7:BG:80:GLY:HA3	23:BX:11:U:H5''	1.86	0.57
25:CA:1071:G:C1'	25:CA:1089:A:C8	2.88	0.57
25:CA:1483:G:C5	25:CA:1484:U:C5	2.92	0.57
25:CA:686:U:H2'	25:CA:788:A:N1	2.19	0.57
31:CG:148:ARG:HG3	31:CG:148:ARG:HH11	1.70	0.57
33:CI:83:ALA:HB1	33:CI:100:ILE:HD12	1.85	0.57
38:CN:2:ARG:O	38:CN:2:ARG:CD	2.52	0.57
25:CA:751:A:H5'	43:CS:90:LYS:HA	1.86	0.57
49:CY:36:GLN:O	49:CY:37:LEU:HB3	2.05	0.57
25:DA:189:G:P	48:DX:25:LYS:HE2	2.44	0.57
25:DA:2098:U:C4	25:DA:2099:U:C5	2.93	0.57
25:DA:2134:A:N6	25:DA:2157:G:O2'	2.37	0.57
25:DA:2193:G:H2'	25:DA:2194:U:C6	2.38	0.57
25:DA:2333:A:N7	25:DA:2335:A:C2	2.73	0.57
25:DA:2335:A:N7	25:DA:2337:G:C6	2.73	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2343:U:H2'	25:DA:2344:U:C6	2.40	0.57
25:DA:2642:G:C2	25:DA:2773:C:C2	2.92	0.57
25:DA:2884:U:O2	25:DA:2884:U:C4'	2.51	0.57
25:DA:580:U:O3'	41:DQ:30:VAL:HG13	2.04	0.57
25:DA:60:G:O2'	25:DA:61:C:O5'	2.23	0.57
56:DB:45:A:C2	56:DB:46:A:N9	2.73	0.57
31:DG:120:ILE:HD12	31:DG:140:ILE:CG2	2.35	0.57
31:DG:21:GLN:OE1	31:DG:21:GLN:HA	2.04	0.57
40:DP:90:ALA:HB2	40:DP:112:ARG:HA	1.86	0.57
1:AA:104:G:N2	1:AA:105:G:C4	2.72	0.57
1:AA:1211:U:O2'	1:AA:1212:U:OP2	2.22	0.57
1:AA:1475:G:O2'	1:AA:1476:A:H5'	2.05	0.57
1:AA:22:G:C6	1:AA:23:C:N3	2.73	0.57
1:AA:410:G:H5'	1:AA:411:A:OP1	2.03	0.57
1:AA:676:A:O2'	1:AA:677:U:H5'	2.05	0.57
2:AB:40:ILE:HG21	2:AB:201:GLY:CA	2.35	0.57
3:AC:51:VAL:HG21	3:AC:67:ILE:HG23	1.87	0.57
4:AD:94:GLU:OE2	4:AD:103:ARG:NH1	2.37	0.57
9:AI:39:GLY:O	9:AI:40:ARG:CB	2.52	0.57
9:AI:89:TYR:O	9:AI:90:ASP:CG	2.43	0.57
10:AJ:33:GLY:O	10:AJ:34:ALA:HB2	2.05	0.57
13:AM:10:ASP:O	13:AM:11:HIS:HB2	2.04	0.57
13:AM:76:ILE:HG22	13:AM:80:MET:CE	2.34	0.57
17:AQ:71:SER:C	17:AQ:72:TRP:CD1	2.78	0.57
21:AU:19:LYS:HE2	21:AU:19:LYS:CA	2.33	0.57
1:BA:1050:G:H2'	1:BA:1051:C:C6	2.40	0.57
1:BA:1217:C:H2'	1:BA:1218:C:C6	2.38	0.57
1:BA:502:A:H2'	1:BA:503:C:H6	1.70	0.57
1:BA:74:A:C2	1:BA:97:G:C4	2.93	0.57
1:BA:920:U:H2'	1:BA:921:U:H6	1.69	0.57
2:BB:218:ALA:O	2:BB:219:THR:HB	2.05	0.57
2:BB:71:THR:O	2:BB:72:LYS:CG	2.52	0.57
3:BC:46:LEU:HB3	3:BC:49:ALA:HB3	1.86	0.57
7:BG:74:VAL:HG21	7:BG:143:MET:HG3	1.87	0.57
8:BH:82:LEU:HD13	8:BH:82:LEU:C	2.25	0.57
9:BI:8:THR:HB	9:BI:84:ARG:HH11	1.68	0.57
10:BJ:9:ARG:O	10:BJ:98:VAL:HA	2.05	0.57
13:BM:78:ARG:O	13:BM:82:LEU:HD23	2.04	0.57
17:BQ:60:ILE:O	17:BQ:61:ARG:HB3	2.04	0.57
18:BR:26:ALA:HA	18:BR:29:LYS:HG2	1.86	0.57
25:CA:1169:A:H2'	25:CA:1170:C:O4'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1181:U:H2'	25:CA:1182:G:C8	2.39	0.57
25:CA:2473:U:C6	25:CA:2474:U:H5	2.21	0.57
25:CA:528:A:H3'	25:CA:528:A:H8	1.70	0.57
32:CH:69:ALA:CB	32:CH:138:VAL:HG12	2.34	0.57
34:CJ:7:LYS:O	34:CJ:11:VAL:HG23	2.04	0.57
35:CK:114:LYS:O	35:CK:118:LEU:HG	2.04	0.57
25:DA:1090:A:N1	25:DA:1102:C:O2	2.37	0.57
25:DA:1458:U:H5'	25:DA:1459:G:C2	2.40	0.57
25:DA:1465:G:C6	25:DA:1466:U:C4	2.92	0.57
25:DA:2018:G:O2'	25:DA:2019:A:H5'	2.04	0.57
25:DA:630:G:C3'	25:DA:631:A:H5''	2.34	0.57
56:DB:47:C:H6	56:DB:47:C:O5'	1.88	0.57
27:DC:106:PRO:CB	27:DC:141:HIS:CE1	2.86	0.57
30:DF:63:LYS:HG2	30:DF:63:LYS:O	2.03	0.57
30:DF:96:TRP:O	30:DF:97:GLU:C	2.42	0.57
32:DH:117:LEU:HD12	32:DH:118:PRO:HD2	1.85	0.57
32:DH:6:LEU:HD13	32:DH:35:LYS:H	1.70	0.57
25:DA:558:U:OP1	34:DJ:113:PRO:HD2	2.04	0.57
37:DM:66:ARG:HG3	37:DM:66:ARG:NH1	2.19	0.57
40:DP:13:LYS:HE3	40:DP:76:HIS:HA	1.87	0.57
1:AA:110:C:H2'	1:AA:111:G:O4'	2.04	0.57
1:AA:1183:U:C4'	1:AA:1183:U:OP2	2.52	0.57
1:AA:1312:G:N2	1:AA:1326:U:C2	2.73	0.57
1:AA:1442:G:H2'	1:AA:1443:C:O5'	2.04	0.57
1:AA:769:G:O2'	1:AA:770:C:H5'	2.05	0.57
20:AT:53:MET:CE	20:AT:54:GLN:HA	2.35	0.57
21:AU:25:ALA:CB	23:AX:9:G:C5'	2.83	0.57
1:BA:1088:G:C2	1:BA:1089:G:C4	2.93	0.57
1:BA:1130:A:C1'	1:BA:1146:A:C2	2.88	0.57
1:BA:1250:A:N7	1:BA:1287:A:N7	2.53	0.57
1:BA:1257:A:H4'	1:BA:1258:G:OP2	2.05	0.57
1:BA:1534:A:H4'	1:BA:1535:C:H6	1.69	0.57
1:BA:158:G:C4	1:BA:159:G:C8	2.93	0.57
1:BA:705:G:H21	11:BK:30:ILE:HD12	1.69	0.57
1:BA:833:G:O2'	1:BA:834:U:H5'	2.05	0.57
1:BA:920:U:C2	1:BA:921:U:C5	2.93	0.57
1:BA:994:A:C8	1:BA:1216:A:H4'	2.40	0.57
2:BB:61:SER:C	2:BB:63:LYS:N	2.58	0.57
3:BC:5:HIS:CE1	3:BC:183:TYR:CD2	2.93	0.57
4:BD:83:GLY:O	4:BD:84:ASN:C	2.42	0.57
8:BH:77:VAL:HG12	8:BH:78:SER:N	2.18	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:125:LYS:HA	21:BU:33:ARG:HH21	1.69	0.57
1:BA:974:A:C8	14:BN:71:HIS:CD2	2.92	0.57
25:CA:1416:G:O2'	25:CA:1417:C:H6	1.86	0.57
25:CA:1501:G:H4'	27:CC:94:LEU:HD21	1.86	0.57
25:CA:185:G:C4	25:CA:186:G:C8	2.93	0.57
25:CA:2801:G:H2'	25:CA:2802:G:C8	2.40	0.57
28:CD:40:LEU:O	28:CD:41:ALA:C	2.43	0.57
30:CF:43:ILE:HG22	30:CF:82:TYR:CZ	2.39	0.57
30:CF:66:ILE:HD12	30:CF:66:ILE:O	2.04	0.57
32:CH:31:VAL:CB	32:CH:32:PRO:CD	2.83	0.57
46:CV:23:ALA:O	46:CV:24:ASN:C	2.39	0.57
46:CV:25:LYS:HE2	46:CV:43:ASP:HA	1.87	0.57
48:CX:58:ILE:HG13	48:CX:66:VAL:HG21	1.86	0.57
25:DA:1021:A:N3	25:DA:1021:A:H3'	2.19	0.57
25:DA:1176:U:C4	25:DA:1177:G:C6	2.92	0.57
25:DA:1348:C:H5''	25:DA:1349:C:OP2	2.05	0.57
25:DA:1837:C:O2'	25:DA:1927:A:N3	2.30	0.57
25:DA:2209:G:C8	25:DA:2210:U:C6	2.93	0.57
25:DA:282:A:H2'	25:DA:283:G:C8	2.39	0.57
25:DA:720:U:H2'	25:DA:721:A:C8	2.40	0.57
29:DE:126:VAL:HG21	29:DE:133:LEU:HB3	1.85	0.57
30:DF:104:THR:HG22	30:DF:105:ILE:HG22	1.87	0.57
56:DB:43:C:H1'	30:DF:89:THR:HG22	1.85	0.57
37:DM:66:ARG:HG3	37:DM:66:ARG:HH11	1.70	0.57
57:DW:17:LEU:HA	57:DW:35:ARG:HB2	1.87	0.57
1:AA:131:A:C6	1:AA:132:C:N4	2.73	0.57
1:AA:1493:A:C8	1:AA:1493:A:OP2	2.55	0.57
1:AA:164:G:C2'	1:AA:165:G:H5'	2.34	0.57
1:AA:376:G:C4	1:AA:389:A:C2	2.93	0.57
1:AA:519:C:H2'	1:AA:520:A:C8	2.40	0.57
2:AB:150:ILE:HG13	2:AB:151:LYS:N	2.20	0.57
8:AH:74:ILE:HD13	8:AH:128:VAL:HG13	1.87	0.57
9:AI:98:ARG:CD	9:AI:103:VAL:HG21	2.35	0.57
9:AI:28:VAL:HG11	9:AI:31:GLN:HA	1.87	0.57
9:AI:5:TYR:HB3	9:AI:88:GLU:CG	2.35	0.57
13:AM:40:GLU:CG	13:AM:41:ASP:N	2.68	0.57
19:AS:48:ILE:H	19:AS:48:ILE:HD12	1.68	0.57
1:BA:1151:A:N3	1:BA:1152:A:N7	2.52	0.57
1:BA:115:G:H4'	1:BA:116:A:O5'	2.04	0.57
1:BA:1269:A:N1	1:BA:1312:G:O2'	2.33	0.57
1:BA:1310:G:C6	1:BA:1311:A:C5	2.93	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:462:G:C5'	1:BA:463:U:OP2	2.52	0.57
2:BB:118:THR:O	2:BB:119:GLN:HB3	2.05	0.57
3:BC:99:GLN:O	3:BC:100:ILE:CB	2.53	0.57
3:BC:5:HIS:HE1	3:BC:183:TYR:CD2	2.23	0.57
7:BG:30:MET:O	7:BG:30:MET:HG2	2.04	0.57
8:BH:101:ALA:HB3	8:BH:112:ASP:HB3	1.86	0.57
9:BI:60:LEU:N	9:BI:60:LEU:HD23	2.20	0.57
12:BL:87:LYS:HG3	12:BL:87:LYS:O	2.04	0.57
13:BM:10:ASP:O	13:BM:11:HIS:HB2	2.03	0.57
19:BS:29:PRO:HA	19:BS:47:THR:O	2.04	0.57
20:BT:77:ASN:O	20:BT:81:GLN:HG2	2.05	0.57
53:C2:30:VAL:HG12	53:C2:31:LEU:N	2.19	0.57
25:CA:1171:G:C5	25:CA:1172:C:N3	2.73	0.57
25:CA:183:C:H2'	25:CA:184:C:H5'	1.87	0.57
25:CA:2314:A:H2'	25:CA:2315:G:C8	2.40	0.57
25:CA:2722:G:H4'	38:CN:4:ARG:HB2	1.87	0.57
25:CA:281:C:H2'	25:CA:282:A:C8	2.40	0.57
25:CA:834:G:N3	25:CA:2358:A:H1'	2.19	0.57
27:CC:257:ARG:NH1	27:CC:263:ASP:OD2	2.38	0.57
28:CD:96:ILE:HG22	28:CD:97:SER:N	2.19	0.57
30:CF:48:LEU:HD12	30:CF:51:ASN:HD21	1.68	0.57
31:CG:15:ASP:HB2	31:CG:26:LYS:HG3	1.86	0.57
35:CK:121:GLU:O	35:CK:122:VAL:O	2.23	0.57
37:CM:90:GLU:O	37:CM:91:TYR:HB3	2.02	0.57
41:CQ:86:SER:CB	42:CR:51:VAL:HA	2.35	0.57
45:CU:53:GLN:N	45:CU:54:PRO:CD	2.67	0.57
49:CY:56:LEU:O	49:CY:57:LEU:HB2	2.05	0.57
25:DA:1073:A:H2'	25:DA:1074:G:H5'	1.85	0.57
25:DA:1412:U:O2	25:DA:1591:A:C2	2.57	0.57
25:DA:1414:C:C4	25:DA:1415:U:C5	2.93	0.57
25:DA:2799:A:O2'	25:DA:2800:A:C5'	2.53	0.57
29:DE:119:ILE:O	29:DE:187:VAL:HA	2.04	0.57
29:DE:2:GLU:OE2	29:DE:13:THR:HG23	2.04	0.57
30:DF:92:GLY:O	30:DF:95:MET:HB3	2.05	0.57
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.05	0.57
1:AA:1216:A:C2	1:AA:1217:C:C4	2.93	0.57
1:AA:1340:A:H2'	1:AA:1341:U:O4'	2.05	0.57
1:AA:437:U:C4	1:AA:438:U:C5	2.93	0.57
1:AA:470:C:C2	1:AA:471:U:C5	2.93	0.57
2:AB:138:ARG:HG3	2:AB:139:GLU:N	2.19	0.57
2:AB:66:ILE:HG21	2:AB:68:PHE:CE2	2.40	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:79:VAL:O	2:AB:83:ALA:HB3	2.05	0.57
4:AD:77:GLU:HA	4:AD:77:GLU:OE1	2.03	0.57
5:AE:15:ILE:N	5:AE:15:ILE:HD12	2.20	0.57
13:AM:32:ILE:HG22	13:AM:33:LEU:N	2.18	0.57
17:AQ:13:SER:HB3	17:AQ:21:VAL:HG12	1.85	0.57
20:AT:35:TYR:HA	20:AT:38:ILE:HD12	1.87	0.57
21:AU:18:PHE:O	21:AU:21:SER:HB3	2.05	0.57
22:AV:64:A:C2	22:AV:65:G:C8	2.93	0.57
24:AY:107:THR:HG23	24:AY:110:ARG:HG2	1.87	0.57
1:BA:1256:A:N7	1:BA:1258:G:N2	2.52	0.57
1:BA:1490:U:O2'	1:BA:1491:G:H5'	2.05	0.57
1:BA:180:U:H2'	1:BA:181:A:O5'	2.05	0.57
1:BA:234:C:H2'	1:BA:235:C:C6	2.40	0.57
1:BA:62:U:O2'	1:BA:379:C:H1'	2.05	0.57
1:BA:649:A:H2'	1:BA:650:G:O4'	2.04	0.57
1:BA:677:U:H1'	11:BK:120:CYS:SG	2.44	0.57
4:BD:165:GLU:O	4:BD:166:LYS:O	2.23	0.57
4:BD:195:ASN:HB3	4:BD:197:HIS:HD2	1.69	0.57
6:BF:6:ILE:N	6:BF:6:ILE:HD12	2.19	0.57
8:BH:46:GLU:N	8:BH:63:LYS:HG3	2.19	0.57
9:BI:18:VAL:HA	9:BI:64:ILE:HG22	1.87	0.57
11:BK:83:VAL:HG11	11:BK:96:ILE:HG22	1.87	0.57
13:BM:86:ARG:HG2	13:BM:96:VAL:HG12	1.87	0.57
25:CA:1070:A:O2'	25:CA:1097:U:OP1	2.22	0.57
25:CA:1495:A:C2'	25:CA:1496:A:O5'	2.53	0.57
25:CA:2102:G:H5'	25:CA:2103:C:OP2	2.04	0.57
26:CB:102:G:H2'	26:CB:103:U:H5'	1.87	0.57
29:CE:115:GLN:O	29:CE:116:ASP:HB2	2.04	0.57
29:CE:149:ILE:HD12	29:CE:149:ILE:C	2.25	0.57
31:CG:148:ARG:CG	31:CG:148:ARG:NH1	2.67	0.57
36:CL:30:THR:O	36:CL:33:ARG:HG2	2.05	0.57
38:CN:78:LYS:C	38:CN:79:LEU:O	2.40	0.57
40:CP:72:VAL:CG2	40:CP:72:VAL:O	2.53	0.57
45:CU:53:GLN:N	45:CU:54:PRO:HD3	2.19	0.57
25:DA:1068:G:H2'	25:DA:1068:G:N3	2.19	0.57
25:DA:1084:A:C5	25:DA:1085:A:C5	2.93	0.57
25:DA:1339:G:H21	25:DA:1603:A:H1'	1.70	0.57
25:DA:1455:G:P	60:DA:3417:HOH:O	2.63	0.57
25:DA:1786:A:C4	25:DA:1938:A:C6	2.93	0.57
25:DA:2303:G:O2'	25:DA:2304:G:H5'	2.04	0.57
25:DA:2415:G:H2'	25:DA:2416:C:C6	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2663:G:C4	25:DA:2664:G:C8	2.93	0.57
25:DA:2847:U:H2'	25:DA:2848:G:O5'	2.05	0.57
25:DA:2898:U:H2'	25:DA:2899:A:H8	1.70	0.57
25:DA:88:G:C2'	25:DA:89:A:H5'	2.34	0.57
32:DH:50:ARG:CZ	32:DH:50:ARG:CA	2.83	0.57
32:DH:9:VAL:CG1	32:DH:12:LEU:HG	2.35	0.57
36:DL:19:LEU:HD12	36:DL:19:LEU:N	2.20	0.57
39:DO:92:PHE:HB2	39:DO:117:PHE:CD1	2.40	0.57
40:DP:113:LEU:O	40:DP:113:LEU:HG	2.04	0.57
40:DP:11:GLN:HB2	40:DP:54:LEU:HD21	1.87	0.57
43:DS:43:ALA:HA	43:DS:46:LEU:HD12	1.86	0.57
44:DT:35:ALA:HB3	44:DT:38:ALA:HB2	1.86	0.57
46:DV:63:ILE:HD11	46:DV:91:PHE:CE1	2.40	0.57
1:AA:1049:U:C4'	1:AA:1050:G:OP2	2.53	0.56
1:AA:1299:A:O2'	1:AA:1300:G:H4'	2.05	0.56
1:AA:274:A:H5''	17:AQ:15:LYS:HE2	1.87	0.56
1:AA:65:A:C2	1:AA:381:C:C6	2.93	0.56
1:AA:412:A:H4'	1:AA:413:G:OP1	2.04	0.56
5:AE:108:GLY:HA2	5:AE:111:ARG:HB3	1.87	0.56
7:AG:87:PRO:HD3	7:AG:147:ASN:HB2	1.86	0.56
7:AG:14:ASP:CB	7:AG:19:SER:HB3	2.35	0.56
5:AE:154:ALA:HB1	8:AH:65:PHE:CZ	2.40	0.56
13:AM:10:ASP:OD1	13:AM:11:HIS:N	2.38	0.56
13:AM:89:ARG:HD3	13:AM:95:PRO:O	2.05	0.56
20:AT:50:PHE:O	20:AT:53:MET:HG3	2.05	0.56
21:AU:40:PRO:HA	21:AU:44:ARG:HH11	1.68	0.56
22:AV:75:C:O4'	25:CA:2432:A:H1'	2.05	0.56
24:AY:107:THR:CG2	24:AY:110:ARG:HG2	2.35	0.56
24:AY:59:THR:HG22	24:AY:60:VAL:N	2.20	0.56
1:BA:1397:C:O2	1:BA:1397:C:O4'	2.21	0.56
1:BA:1444:U:H2'	1:BA:1445:U:O5'	2.05	0.56
1:BA:1492:A:H3'	1:BA:1493:A:C8	2.40	0.56
1:BA:158:G:C2'	1:BA:159:G:H5''	2.35	0.56
1:BA:565:U:OP2	1:BA:566:G:O2'	2.23	0.56
1:BA:631:C:H5''	1:BA:632:U:H5'	1.86	0.56
1:BA:645:G:C6	1:BA:646:G:N7	2.73	0.56
1:BA:918:A:H2'	1:BA:919:A:C8	2.40	0.56
6:BF:14:GLN:C	6:BF:16:GLU:H	2.06	0.56
7:BG:135:LYS:O	7:BG:136:LYS:C	2.43	0.56
11:BK:104:PHE:O	11:BK:106:ILE:N	2.38	0.56
13:BM:23:GLY:HA2	13:BM:68:LEU:CD2	2.34	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BP:17:TYR:N	16:BP:17:TYR:CD1	2.73	0.56
16:BP:19:VAL:HG13	16:BP:38:PHE:N	2.19	0.56
17:BQ:60:ILE:HA	17:BQ:74:LEU:HA	1.87	0.56
25:CA:1060:U:H5'	25:CA:1062:G:H5'	1.85	0.56
25:CA:1474:U:C2'	25:CA:1475:G:H5'	2.34	0.56
25:CA:1731:G:N1	25:CA:1733:G:C4	2.73	0.56
25:CA:1838:C:C5	25:CA:1899:A:C5	2.93	0.56
25:CA:2331:G:N2	25:CA:2385:C:C6	2.73	0.56
25:CA:2491:U:H5''	25:CA:2570:G:H5''	1.87	0.56
25:CA:2579:C:H6	25:CA:2579:C:O5'	1.88	0.56
55:D4:7:VAL:C	55:D4:8:LYS:HG3	2.24	0.56
25:DA:71:A:OP2	25:DA:113:U:H5'	2.04	0.56
25:DA:1440:U:C4	25:DA:1552:A:H2	2.23	0.56
25:DA:149:A:H2'	25:DA:150:U:H6	1.70	0.56
25:DA:1670:C:C5	25:DA:1671:U:N3	2.73	0.56
25:DA:1682:G:H2'	25:DA:1683:U:C6	2.40	0.56
25:DA:2098:U:C2'	25:DA:2099:U:H5'	2.35	0.56
25:DA:2531:A:N3	25:DA:2658:C:O2'	2.29	0.56
56:DB:49:C:O3'	39:DO:68:LYS:HE2	2.05	0.56
25:DA:1567:G:O2'	27:DC:84:PRO:HG3	2.05	0.56
31:DG:145:ALA:O	31:DG:148:ARG:N	2.37	0.56
34:DJ:7:LYS:O	34:DJ:11:VAL:HG22	2.04	0.56
36:DL:50:PHE:CZ	36:DL:52:GLY:O	2.57	0.56
39:DO:93:ASP:OD2	39:DO:95:SER:CA	2.52	0.56
44:DT:80:TRP:CZ3	44:DT:82:LYS:HB2	2.39	0.56
45:DU:52:ASN:C	45:DU:54:PRO:HD3	2.25	0.56
1:AA:1066:C:C5'	1:AA:1067:A:OP2	2.52	0.56
1:AA:304:U:O2'	1:AA:305:G:H5'	2.05	0.56
1:AA:376:G:H5''	16:AP:5:ARG:HB3	1.86	0.56
1:AA:693:G:C6	1:AA:694:A:C5	2.93	0.56
1:AA:775:G:C2'	1:AA:776:G:H5'	2.35	0.56
5:AE:45:VAL:HG13	5:AE:117:ALA:HB2	1.87	0.56
11:AK:22:ILE:CG1	11:AK:85:VAL:HG22	2.35	0.56
14:AN:61:ARG:O	14:AN:62:ASN:CB	2.54	0.56
14:AN:91:GLY:O	14:AN:93:ILE:N	2.37	0.56
17:AQ:74:LEU:HD12	17:AQ:74:LEU:O	2.04	0.56
22:AV:12:U:H2'	22:AV:13:C:O5'	2.05	0.56
1:BA:1009:U:C2'	1:BA:1010:U:H5'	2.35	0.56
1:BA:1061:G:C5'	10:BJ:61:ALA:HB2	2.35	0.56
1:BA:1275:A:H2'	1:BA:1276:G:O4'	2.05	0.56
1:BA:1298:U:C2'	1:BA:1298:U:O2	2.52	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:979:C:C6	1:BA:1318:A:N1	2.72	0.56
1:BA:210:C:H5''	1:BA:211:G:OP1	2.05	0.56
1:BA:22:G:H2'	1:BA:23:C:C6	2.40	0.56
1:BA:502:A:H2'	1:BA:503:C:C6	2.40	0.56
1:BA:98:A:H2'	1:BA:99:C:C6	2.40	0.56
3:BC:144:GLY:O	3:BC:145:ALA:O	2.23	0.56
5:BE:99:SER:O	5:BE:101:GLY:N	2.37	0.56
5:BE:47:PHE:C	5:BE:47:PHE:CD2	2.78	0.56
10:BJ:5:ARG:HG3	10:BJ:6:ILE:CG1	2.35	0.56
10:BJ:87:LEU:C	10:BJ:87:LEU:HD22	2.25	0.56
15:BO:26:VAL:O	15:BO:27:GLN:C	2.43	0.56
15:BO:1:SER:O	15:BO:2:LEU:HB2	2.05	0.56
18:BR:66:LEU:HD23	18:BR:66:LEU:N	2.20	0.56
25:CA:1533:C:H2'	25:CA:1533:C:O2	2.04	0.56
25:CA:1907:G:C6	25:CA:1908:C:C4	2.93	0.56
25:CA:2577:A:H5''	25:CA:2578:G:H5'	1.86	0.56
25:CA:273:G:N2	25:CA:365:U:O2	2.38	0.56
28:CD:103:ASP:OD1	28:CD:104:VAL:N	2.38	0.56
30:CF:151:LEU:HD12	30:CF:152:ASP:H	1.71	0.56
32:CH:4:ILE:HD11	32:CH:44:ILE:HA	1.87	0.56
36:CL:107:PHE:CD2	36:CL:107:PHE:N	2.72	0.56
37:CM:43:ALA:O	37:CM:45:GLN:N	2.37	0.56
48:CX:63:ILE:HD11	48:CX:67:LEU:HG	1.86	0.56
25:DA:1252:G:N3	41:DQ:32:ARG:HG2	2.18	0.56
25:DA:1362:C:C2'	25:DA:1363:C:H5'	2.35	0.56
25:DA:143:C:O2	44:DT:1:MET:N	2.36	0.56
25:DA:1710:G:C4	25:DA:1749:A:C2	2.94	0.56
25:DA:1866:A:C2	25:DA:1876:A:C4	2.93	0.56
25:DA:230:G:C4	25:DA:231:A:C8	2.94	0.56
25:DA:2473:U:O2	25:DA:2473:U:H2'	2.05	0.56
25:DA:260:G:C6	25:DA:261:G:N7	2.72	0.56
25:DA:27:G:N2	25:DA:512:G:H1'	2.19	0.56
35:DK:22:ILE:CG2	35:DK:42:THR:HG22	2.35	0.56
25:DA:2674:G:H4'	35:DK:30:ARG:HD2	1.86	0.56
37:DM:21:ALA:N	37:DM:97:GLN:HB2	2.20	0.56
56:DB:116:G:OP1	39:DO:55:GLU:HG2	2.04	0.56
40:DP:24:THR:HB	40:DP:87:ARG:HB3	1.86	0.56
1:AA:1030:U:H5'	1:AA:1031:C:O2	2.05	0.56
1:AA:1410:A:H2'	1:AA:1411:C:C6	2.40	0.56
1:AA:541:G:H2'	1:AA:542:G:O4'	2.06	0.56
2:AB:23:ASN:ND2	2:AB:191:ASP:HA	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:171:ARG:O	3:AC:172:VAL:HG22	2.04	0.56
9:AI:11:ARG:HH11	9:AI:11:ARG:CG	2.19	0.56
9:AI:24:ASN:C	9:AI:58:GLU:HA	2.25	0.56
12:AL:2:THR:HG22	12:AL:4:ASN:N	2.20	0.56
1:BA:107:G:H2'	1:BA:108:G:H5''	1.86	0.56
1:BA:1124:G:N2	1:BA:1127:G:C2	2.74	0.56
1:BA:853:C:O2'	1:BA:854:U:H5'	2.06	0.56
1:BA:996:A:C2	1:BA:1046:A:H4'	2.41	0.56
2:BB:133:ALA:O	2:BB:137:THR:HG23	2.05	0.56
3:BC:149:LYS:HG3	3:BC:200:TRP:CZ3	2.40	0.56
5:BE:149:PRO:C	5:BE:151:MET:H	2.08	0.56
7:BG:58:LEU:HG	7:BG:59:GLU:H	1.70	0.56
9:BI:45:MET:HA	9:BI:47:VAL:HG23	1.86	0.56
52:C1:28:THR:O	52:C1:29:LYS:HG2	2.05	0.56
25:CA:1061:U:O2	33:CI:9:LYS:HB2	2.06	0.56
25:CA:1234:U:C2'	25:CA:1235:G:O5'	2.53	0.56
25:CA:1327:A:H2'	25:CA:1328:A:O4'	2.06	0.56
25:CA:1694:C:H4'	25:CA:1695:G:O5'	2.05	0.56
25:CA:2078:C:O2'	25:CA:2079:U:H5'	2.06	0.56
25:CA:207:A:H2'	25:CA:208:C:O4'	2.06	0.56
25:CA:2153:C:H2'	25:CA:2154:A:O4'	2.05	0.56
25:CA:557:C:H2'	25:CA:558:U:C6	2.39	0.56
25:CA:851:C:H2'	25:CA:852:U:H6	1.71	0.56
30:CF:11:VAL:HG13	30:CF:171:ALA:CB	2.35	0.56
31:CG:124:CYS:HA	31:CG:129:GLU:O	2.04	0.56
32:CH:72:ILE:CG2	32:CH:140:ALA:HB1	2.35	0.56
35:CK:77:ILE:HG22	35:CK:78:ARG:N	2.21	0.56
36:CL:87:GLY:O	36:CL:89:VAL:N	2.37	0.56
52:D1:24:LYS:HG3	52:D1:25:ASN:N	2.20	0.56
52:D1:49:LYS:O	52:D1:50:GLU:HB3	2.05	0.56
25:DA:1197:G:H2'	25:DA:1198:U:H6	1.69	0.56
25:DA:1356:G:H21	25:DA:1357:C:H1'	1.70	0.56
25:DA:1353:A:C2	25:DA:1378:A:C2	2.93	0.56
25:DA:1670:C:C4	25:DA:1671:U:N3	2.73	0.56
25:DA:2204:G:C2	25:DA:2205:A:C8	2.93	0.56
25:DA:535:G:C2'	25:DA:536:G:H5'	2.36	0.56
56:DB:28:C:N3	56:DB:56:G:O6	2.37	0.56
31:DG:120:ILE:HD12	31:DG:140:ILE:HG23	1.86	0.56
34:DJ:30:THR:HG22	34:DJ:31:GLU:N	2.19	0.56
36:DL:10:GLU:CA	36:DL:10:GLU:OE1	2.53	0.56
1:AA:1114:C:C2	1:AA:1115:U:C6	2.93	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1142:G:N2	1:AA:1143:G:H1'	2.20	0.56
1:AA:1234:C:H2'	1:AA:1235:U:H6	1.68	0.56
2:AB:185:ILE:HA	2:AB:199:ILE:HB	1.86	0.56
2:AB:53:LEU:HD21	2:AB:212:TYR:CE2	2.40	0.56
2:AB:55:GLU:HA	2:AB:58:LYS:HB2	1.88	0.56
1:AA:1525:G:OP1	11:AK:121:ARG:NH2	2.37	0.56
15:AO:86:LEU:N	15:AO:86:LEU:HD23	2.20	0.56
22:AV:69:G:O2'	22:AV:70:G:H5'	2.05	0.56
1:BA:1346:A:N1	1:BA:1374:A:H5''	2.20	0.56
1:BA:164:G:C2'	1:BA:165:G:H5'	2.35	0.56
1:BA:4:U:OP1	1:BA:5:U:O4	2.21	0.56
1:BA:689:C:OP2	11:BK:52:ARG:NH2	2.39	0.56
1:BA:919:A:C2	1:BA:920:U:C5	2.93	0.56
1:BA:969:A:C4	1:BA:970:C:C6	2.93	0.56
2:BB:99:MET:O	2:BB:103:TRP:CB	2.54	0.56
3:BC:56:ILE:HG13	3:BC:65:VAL:HG22	1.88	0.56
5:BE:45:VAL:HG22	5:BE:117:ALA:HB2	1.87	0.56
1:BA:1379:G:N7	7:BG:1:PRO:HB2	2.20	0.56
8:BH:87:ARG:O	8:BH:88:LYS:HB3	2.06	0.56
9:BI:25:GLY:O	9:BI:62:LEU:HD21	2.06	0.56
10:BJ:5:ARG:HG2	10:BJ:79:PRO:HD3	1.86	0.56
14:BN:49:GLN:HA	14:BN:49:GLN:OE1	2.06	0.56
14:BN:48:LEU:O	14:BN:51:LEU:HD21	2.05	0.56
17:BQ:44:HIS:HB2	17:BQ:69:THR:HG22	1.87	0.56
22:BV:20:U:P	22:BV:20:U:O4'	2.64	0.56
25:CA:1414:C:C4	25:CA:1415:U:H5	2.22	0.56
25:CA:528:A:C2	25:CA:2043:C:C5'	2.86	0.56
25:CA:2091:C:O2'	48:CX:55:MET:CE	2.54	0.56
25:CA:2205:A:H2'	25:CA:2206:C:C6	2.40	0.56
25:CA:277:G:C1'	25:CA:361:G:O6	2.54	0.56
25:CA:359:G:C5	25:CA:360:U:C5	2.93	0.56
25:CA:528:A:C2	25:CA:2042:A:H2'	2.40	0.56
25:CA:2304:G:C1'	30:CF:128:SER:HB3	2.34	0.56
30:CF:13:LYS:HG3	30:CF:14:LYS:N	2.20	0.56
40:CP:30:TRP:CE3	40:CP:39:LEU:CD1	2.88	0.56
41:CQ:68:ALA:HB1	41:CQ:73:ILE:O	2.05	0.56
42:CR:49:ILE:C	42:CR:51:VAL:O	2.43	0.56
46:CV:61:LEU:N	46:CV:61:LEU:HD13	2.21	0.56
25:DA:1002:G:C5	25:DA:1003:G:C8	2.94	0.56
25:DA:1091:G:N3	25:DA:1092:C:C6	2.73	0.56
25:DA:1486:U:C2	25:DA:1504:A:H2	2.23	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1672:A:C2	25:DA:1673:G:C4	2.93	0.56
25:DA:1778:U:H2'	25:DA:1784:A:N6	2.20	0.56
25:DA:2039:U:H2'	25:DA:2040:G:H8	1.71	0.56
25:DA:2308:G:O6	30:DF:76:PHE:HE2	1.89	0.56
25:DA:2493:U:H2'	25:DA:2494:G:O5'	2.05	0.56
25:DA:2847:U:C2'	25:DA:2848:G:O5'	2.54	0.56
25:DA:454:A:H4'	25:DA:455:C:OP2	2.05	0.56
25:DA:90:U:H3'	25:DA:91:A:H8	1.71	0.56
28:DD:100:LEU:O	28:DD:100:LEU:HD12	2.05	0.56
31:DG:106:LEU:HD13	31:DG:150:TYR:HB3	1.87	0.56
31:DG:10:VAL:HG23	31:DG:14:VAL:HB	1.86	0.56
32:DH:32:PRO:O	32:DH:33:GLN:CB	2.52	0.56
33:DI:35:MET:O	33:DI:37:PHE:N	2.39	0.56
25:DA:1064:C:H4'	33:DI:90:GLY:H	1.70	0.56
34:DJ:101:ILE:O	34:DJ:105:VAL:HG23	2.05	0.56
44:DT:30:ILE:HD13	44:DT:30:ILE:C	2.25	0.56
46:DV:75:GLN:HB2	46:DV:92:VAL:HG23	1.88	0.56
1:AA:1054:C:H4'	1:AA:1055:A:OP1	2.04	0.56
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.67	0.56
1:AA:1502:A:N7	1:AA:1504:G:C4	2.73	0.56
1:AA:198:G:C5	1:AA:199:A:N7	2.74	0.56
1:AA:500:G:C6	1:AA:546:A:C2	2.93	0.56
1:AA:714:G:H2'	1:AA:715:A:C8	2.41	0.56
2:AB:39:ILE:N	2:AB:39:ILE:HD13	2.20	0.56
5:AE:119:VAL:HG21	5:AE:122:VAL:HG11	1.87	0.56
9:AI:43:ALA:N	9:AI:45:MET:SD	2.78	0.56
11:AK:15:VAL:O	11:AK:16:SER:CB	2.54	0.56
12:AL:113:ARG:NH2	12:AL:120:ARG:HG2	2.20	0.56
17:AQ:16:MET:HG2	17:AQ:19:SER:CB	2.36	0.56
1:BA:1182:G:C5'	1:BA:1184:G:H5''	2.36	0.56
1:BA:1250:A:O2'	1:BA:1251:A:H5'	2.06	0.56
1:BA:558:G:H8	1:BA:558:G:O5'	1.88	0.56
1:BA:601:G:O2'	1:BA:602:A:H5'	2.06	0.56
1:BA:939:G:C6	1:BA:940:C:C4	2.94	0.56
9:BI:106:ASP:OD2	9:BI:108:ARG:HG3	2.06	0.56
1:BA:1347:G:C8	9:BI:108:ARG:HB3	2.40	0.56
25:CA:1536:C:O4'	25:CA:1537:G:C2	2.58	0.56
25:CA:1734:G:C4	25:CA:1735:A:C8	2.93	0.56
25:CA:2164:C:H3'	25:CA:2165:C:C6	2.40	0.56
25:CA:2786:U:C2'	25:CA:2787:C:H5'	2.34	0.56
25:CA:2886:A:C2	25:CA:2887:A:H1'	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2897:U:H2'	25:CA:2898:U:C6	2.41	0.56
25:CA:363:G:H2'	25:CA:364:C:C6	2.40	0.56
27:CC:161:VAL:HG22	27:CC:175:LEU:HD23	1.87	0.56
30:CF:56:LEU:CD1	30:CF:64:PRO:HB3	2.34	0.56
33:CI:18:ASN:ND2	33:CI:27:LEU:HD21	2.20	0.56
25:CA:2360:G:H1'	36:CL:60:ARG:HD3	1.87	0.56
36:CL:79:LEU:O	36:CL:82:LEU:HD22	2.05	0.56
25:CA:2009:A:OP1	43:CS:41:LYS:HE2	2.06	0.56
25:DA:1105:U:H2'	25:DA:1106:G:H8	1.70	0.56
25:DA:2105:U:C5	25:DA:2106:U:C5	2.93	0.56
25:DA:2204:G:C4	25:DA:2205:A:C8	2.93	0.56
25:DA:480:A:OP2	45:DU:43:LYS:CE	2.53	0.56
25:DA:60:G:C4	25:DA:74:A:N1	2.74	0.56
27:DC:159:THR:H	27:DC:194:VAL:HG13	1.70	0.56
38:DN:86:ARG:HD3	38:DN:117:ASP:OD2	2.06	0.56
1:AA:1134:G:C2	1:AA:1135:U:H1'	2.40	0.56
1:AA:1181:G:O2'	1:AA:1182:G:N7	2.38	0.56
1:AA:1299:A:N3	1:AA:1299:A:H2'	2.19	0.56
1:AA:1299:A:C2	1:AA:1301:U:N3	2.74	0.56
1:AA:482:A:H2'	1:AA:483:C:O4'	2.05	0.56
1:AA:53:A:H2'	1:AA:54:C:O4'	2.04	0.56
1:AA:55:A:C4	1:AA:56:U:C6	2.94	0.56
1:AA:707:U:H2'	1:AA:708:C:C6	2.40	0.56
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.88	0.56
4:AD:7:LYS:NZ	4:AD:21:LYS:HG3	2.20	0.56
4:AD:48:SER:O	4:AD:52:VAL:HG13	2.05	0.56
9:AI:18:VAL:HA	9:AI:64:ILE:HG22	1.88	0.56
10:AJ:32:THR:HG23	10:AJ:33:GLY:N	2.21	0.56
19:AS:10:ILE:HG21	19:AS:40:PHE:CE2	2.41	0.56
21:AU:33:ARG:CZ	21:AU:34:ARG:HB2	2.35	0.56
22:AV:52:G:C6	22:AV:63:G:C6	2.94	0.56
1:BA:1061:G:N7	1:BA:1062:U:C5	2.74	0.56
1:BA:1364:U:H2'	1:BA:1364:U:O2	2.04	0.56
1:BA:1537:U:H3'	1:BA:1538:C:C6	2.40	0.56
1:BA:188:C:C2'	1:BA:188:C:O2	2.52	0.56
1:BA:374:A:O2'	1:BA:375:U:H5'	2.05	0.56
1:BA:622:A:H3'	1:BA:623:C:H6	1.70	0.56
1:BA:71:A:C2'	1:BA:72:A:O5'	2.54	0.56
2:BB:59:ILE:HD12	2:BB:60:ALA:N	2.21	0.56
3:BC:110:LEU:N	3:BC:110:LEU:CD2	2.68	0.56
4:BD:58:GLN:O	4:BD:62:ARG:HG2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:121:ASN:CG	5:BE:122:VAL:H	2.09	0.56
5:BE:21:SER:HB2	5:BE:30:PHE:CE2	2.40	0.56
7:BG:70:PRO:HA	7:BG:137:ARG:HG3	1.87	0.56
7:BG:79:VAL:HG12	7:BG:80:GLY:H	1.70	0.56
7:BG:7:GLY:O	7:BG:8:GLN:HB3	2.04	0.56
1:BA:1348:U:O3'	9:BI:121:ARG:HB2	2.05	0.56
9:BI:7:GLY:CA	9:BI:84:ARG:HB3	2.36	0.56
17:BQ:77:VAL:C	17:BQ:78:VAL:HG22	2.26	0.56
25:CA:1494:A:C6	25:CA:1495:A:C6	2.93	0.56
25:CA:1470:A:N6	25:CA:1521:G:H1'	2.20	0.56
25:CA:1678:A:N7	60:CA:3441:HOH:O	2.33	0.56
25:CA:2223:G:C2'	25:CA:2224:G:H5'	2.35	0.56
25:CA:2256:G:H2'	25:CA:2257:U:O5'	2.05	0.56
25:CA:31:C:O3'	25:CA:1238:G:H5''	2.05	0.56
28:CD:100:LEU:HD12	28:CD:100:LEU:O	2.04	0.56
39:CO:71:ALA:HB1	39:CO:106:LEU:HB2	1.87	0.56
39:CO:31:THR:HG22	39:CO:33:ARG:N	2.21	0.56
39:CO:78:VAL:O	39:CO:79:ALA:C	2.43	0.56
46:CV:39:ALA:O	46:CV:40:ILE:HD13	2.05	0.56
25:DA:1167:C:H2'	25:DA:1168:G:H5''	1.88	0.56
25:DA:1429:G:C4	25:DA:1568:G:C2	2.94	0.56
25:DA:1473:G:O2'	25:DA:1474:U:H5'	2.05	0.56
25:DA:2755:C:HO2'	25:DA:2756:U:H6	1.53	0.56
25:DA:38:A:H2'	25:DA:39:G:O4'	2.05	0.56
25:DA:691:C:C2'	25:DA:692:C:H5'	2.36	0.56
33:DI:96:LYS:HG2	33:DI:138:VAL:HG22	1.87	0.56
36:DL:68:SER:O	36:DL:69:ARG:CB	2.53	0.56
46:DV:56:PHE:CE1	46:DV:61:LEU:CD2	2.89	0.56
57:DW:22:PHE:N	57:DW:22:PHE:CD2	2.72	0.56
48:DX:51:SER:O	48:DX:52:ALA:C	2.43	0.56
1:AA:1165:U:C2'	1:AA:1166:G:H5'	2.36	0.56
1:AA:1267:C:C5	1:AA:1268:G:C5	2.94	0.56
1:AA:1308:U:O2'	1:AA:1309:G:H5'	2.06	0.56
2:AB:125:PHE:HD2	2:AB:125:PHE:N	2.02	0.56
5:AE:81:GLN:NE2	5:AE:149:PRO:HD3	2.21	0.56
6:AF:8:PHE:CD1	6:AF:8:PHE:C	2.79	0.56
1:BA:1261:A:N3	1:BA:1262:C:C5	2.72	0.56
1:BA:1261:A:H1'	1:BA:1283:U:H5'	1.88	0.56
1:BA:1421:G:C2	1:BA:1422:G:C8	2.94	0.56
1:BA:143:A:C5'	1:BA:144:G:H5'	2.36	0.56
1:BA:166:U:O2'	1:BA:167:A:H5'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:459:A:H2'	1:BA:460:A:C1'	2.36	0.56
1:BA:543:U:O2'	1:BA:544:G:H5'	2.06	0.56
2:BB:134:LEU:O	2:BB:136:ARG:N	2.39	0.56
2:BB:53:LEU:HA	2:BB:56:LEU:HB3	1.87	0.56
2:BB:65:LYS:HD2	2:BB:65:LYS:N	2.20	0.56
5:BE:105:ILE:HD11	5:BE:123:LEU:HD23	1.87	0.56
5:BE:15:ILE:HD11	5:BE:112:ALA:CB	2.36	0.56
10:BJ:56:HIS:O	10:BJ:57:VAL:HG12	2.05	0.56
1:BA:718:A:H5'	11:BK:118:ASN:HD21	1.70	0.56
12:BL:49:ARG:NH1	12:BL:88:ASP:OD1	2.38	0.56
13:BM:22:TYR:O	13:BM:65:GLU:N	2.38	0.56
21:BU:9:GLU:HG3	21:BU:10:PRO:CD	2.36	0.56
25:CA:1860:G:O2'	25:CA:1861:G:H5'	2.06	0.56
25:CA:1894:C:H2'	25:CA:1895:C:C6	2.40	0.56
25:CA:1130:U:C2	25:CA:2025:C:H5'	2.41	0.56
25:CA:2196:C:O2'	25:CA:2197:U:H5'	2.05	0.56
25:CA:2211:A:C2'	25:CA:2212:A:OP1	2.54	0.56
25:CA:2473:U:C6	25:CA:2474:U:C5	2.94	0.56
25:CA:2851:A:N6	25:CA:2852:G:C6	2.73	0.56
25:CA:611:C:H2'	25:CA:612:G:H5'	1.87	0.56
27:CC:161:VAL:HG12	27:CC:162:GLN:N	2.20	0.56
25:CA:1791:A:H5''	27:CC:204:LEU:HD23	1.87	0.56
25:CA:660:C:OP1	29:CE:94:GLN:HB2	2.06	0.56
31:CG:173:ALA:O	31:CG:174:LYS:CB	2.52	0.56
36:CL:120:VAL:HG22	36:CL:121:THR:N	2.21	0.56
38:CN:72:ASP:OD2	38:CN:72:ASP:C	2.42	0.56
36:DL:61:LEU:O	54:D3:12:ARG:HD3	2.05	0.56
25:DA:1474:U:C4	25:DA:1475:G:N2	2.73	0.56
25:DA:1418:G:C2	25:DA:1579:A:N7	2.73	0.56
25:DA:1923:U:H2'	25:DA:1924:C:C6	2.41	0.56
25:DA:2201:G:C6	25:DA:2202:U:C4	2.93	0.56
25:DA:2294:G:N1	25:DA:2295:C:C2	2.74	0.56
25:DA:2444:G:OP2	29:DE:63:LYS:HE2	2.05	0.56
25:DA:2591:C:H2'	25:DA:2592:G:C8	2.40	0.56
27:DC:246:PRO:HG2	27:DC:247:TRP:CZ3	2.40	0.56
32:DH:5:LEU:O	32:DH:6:LEU:HD12	2.06	0.56
33:DI:104:GLN:O	33:DI:105:LEU:CB	2.53	0.56
34:DJ:35:ARG:HG2	34:DJ:40:HIS:HD2	1.71	0.56
37:DM:26:VAL:HG12	37:DM:104:GLU:OE2	2.06	0.56
39:DO:7:ARG:HG3	39:DO:96:GLY:O	2.05	0.56
41:DQ:30:VAL:O	41:DQ:31:TYR:C	2.44	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:50:LEU:CD1	44:DT:50:LEU:N	2.68	0.56
1:AA:1004:A:C2	1:AA:1026:G:C2	2.94	0.56
1:AA:1322:C:O5'	1:AA:1322:C:O2	2.23	0.56
1:AA:408:A:C2'	1:AA:409:U:H5'	2.36	0.56
1:AA:691:G:O6	11:AK:52:ARG:NH2	2.39	0.56
8:AH:31:LEU:O	8:AH:32:LYS:C	2.43	0.56
1:BA:677:U:C2'	1:BA:678:U:H5'	2.36	0.56
2:BB:47:PRO:O	2:BB:50:ASN:HB2	2.06	0.56
3:BC:154:GLY:O	3:BC:156:LEU:N	2.39	0.56
5:BE:153:ALA:O	5:BE:156:ARG:N	2.39	0.56
6:BF:70:VAL:HG23	6:BF:71:ILE:N	2.20	0.56
1:BA:1377:A:C2'	7:BG:1:PRO:HG2	2.36	0.56
10:BJ:73:LEU:HD22	10:BJ:75:ASP:HB2	1.88	0.56
12:BL:64:SER:OG	12:BL:96:THR:HG23	2.06	0.56
11:BK:124:LYS:O	21:BU:33:ARG:NE	2.35	0.56
52:C1:33:LEU:N	52:C1:51:ALA:HB3	2.21	0.56
25:CA:1073:A:N7	25:CA:1074:G:C8	2.73	0.56
25:CA:1084:A:H5''	25:CA:1085:A:OP2	2.06	0.56
25:CA:1484:U:H2'	25:CA:1484:U:O2	2.04	0.56
25:CA:1613:G:H2'	60:CA:3313:HOH:O	2.02	0.56
25:CA:2146:C:H5'	25:CA:2147:A:C5	2.41	0.56
25:CA:2661:G:C6	25:CA:2662:A:C2	2.94	0.56
29:CE:4:VAL:HA	29:CE:11:ALA:HA	1.86	0.56
40:CP:27:VAL:HG22	40:CP:83:ILE:HG13	1.87	0.56
50:CZ:6:ILE:HD11	50:CZ:47:ILE:HD11	1.86	0.56
25:DA:1077:A:H2	25:DA:1088:A:C2	2.24	0.56
25:DA:2098:U:H2'	25:DA:2099:U:H5'	1.88	0.56
25:DA:2286:G:C4'	25:DA:2287:A:O5'	2.51	0.56
25:DA:237:C:O2'	25:DA:238:C:H5'	2.06	0.56
25:DA:2742:G:O2'	25:DA:2743:U:H5'	2.06	0.56
56:DB:34:A:H2'	56:DB:35:C:OP2	2.05	0.56
36:DL:77:ILE:HD11	36:DL:101:ILE:HG21	1.88	0.56
38:DN:10:LEU:O	38:DN:11:ASN:C	2.44	0.56
41:DQ:71:ASN:OD1	41:DQ:106:THR:HG23	2.04	0.56
48:DX:38:TRP:HB2	48:DX:45:PHE:HE2	1.71	0.56
50:DZ:26:LEU:HD21	50:DZ:46:MET:HB2	1.88	0.56
1:AA:108:G:N3	1:AA:108:G:C5'	2.69	0.56
1:AA:89:U:O2'	1:AA:90:C:C5'	2.54	0.56
3:AC:52:SER:HB2	3:AC:113:LYS:HB3	1.88	0.56
9:AI:98:ARG:HA	9:AI:103:VAL:CG2	2.36	0.56
16:AP:6:LEU:CD2	16:AP:70:ARG:HG3	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:10:ARG:HH21	17:AQ:55:GLY:HA2	1.71	0.56
22:AV:20:U:O2	22:AV:20:U:H2'	2.05	0.56
1:BA:110:C:N4	1:BA:111:G:C6	2.73	0.56
1:BA:112:G:C2'	1:BA:113:G:H5'	2.35	0.56
1:BA:1160:G:O2'	1:BA:1161:C:H6	1.89	0.56
1:BA:188:C:O2	1:BA:189:A:C8	2.58	0.56
1:BA:866:C:C4	1:BA:867:G:H1'	2.41	0.56
1:BA:867:G:H2'	1:BA:868:C:C6	2.40	0.56
3:BC:133:MET:O	3:BC:137:VAL:HG23	2.05	0.56
3:BC:64:ARG:O	3:BC:65:VAL:HB	2.05	0.56
4:BD:137:SER:HB2	4:BD:138:PRO:HD2	1.88	0.56
4:BD:150:LYS:O	4:BD:151:GLN:OE1	2.23	0.56
4:BD:54:LEU:C	4:BD:54:LEU:CD2	2.74	0.56
5:BE:67:ARG:O	5:BE:70:MET:HE3	2.06	0.56
8:BH:110:MET:HB3	8:BH:114:ALA:CB	2.36	0.56
1:BA:587:G:H4'	8:BH:3:GLN:CB	2.36	0.56
1:BA:587:G:H4'	8:BH:3:GLN:HB3	1.88	0.56
10:BJ:27:GLU:C	10:BJ:29:ALA:H	2.09	0.56
13:BM:76:ILE:O	13:BM:80:MET:HG3	2.05	0.56
19:BS:63:ASP:HB3	19:BS:64:GLU:CD	2.26	0.56
25:CA:150:U:H2'	25:CA:151:C:C6	2.40	0.56
25:CA:2182:U:H2'	25:CA:2183:A:C8	2.40	0.56
25:CA:2325:G:H5''	25:CA:2326:C:OP2	2.06	0.56
25:CA:2590:A:O3'	27:CC:237:ARG:NH1	2.39	0.56
25:CA:2732:G:C3'	25:CA:2733:A:H5'	2.36	0.56
25:CA:32:C:O2'	25:CA:33:C:H5'	2.05	0.56
30:CF:121:PHE:CZ	30:CF:127:TYR:HB2	2.41	0.56
31:CG:163:TYR:HB2	31:CG:166:GLU:CB	2.36	0.56
33:CI:132:ALA:HB1	33:CI:137:LEU:HD12	1.88	0.56
37:CM:15:GLY:C	37:CM:16:ARG:CD	2.73	0.56
43:CS:4:ILE:HG23	43:CS:106:VAL:HG22	1.88	0.56
50:CZ:34:THR:HG22	50:CZ:35:VAL:N	2.21	0.56
52:D1:31:GLU:O	52:D1:31:GLU:HG2	2.04	0.56
54:D3:31:ILE:O	54:D3:35:LYS:HD2	2.06	0.56
25:DA:1126:A:H4'	25:DA:1127:A:O5'	2.06	0.56
25:DA:1224:U:H4'	42:DR:88:GLY:O	2.05	0.56
25:DA:1292:G:O2'	25:DA:1293:C:H5'	2.06	0.56
25:DA:1494:A:C2	25:DA:1495:A:C5	2.93	0.56
25:DA:1562:U:O2	25:DA:1563:U:C6	2.58	0.56
25:DA:2223:G:C3'	25:DA:2224:G:H5'	2.35	0.56
25:DA:2556:C:H2'	25:DA:2557:G:O5'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:320:A:H4'	25:DA:322:A:N7	2.21	0.56
25:DA:511:U:C3'	25:DA:512:G:H5'	2.35	0.56
25:DA:545:U:H1'	25:DA:548:G:OP2	2.06	0.56
25:DA:65:U:C2	25:DA:66:C:C5	2.93	0.56
28:DD:101:PHE:O	28:DD:180:VAL:HG21	2.06	0.56
29:DE:143:LEU:HB3	29:DE:146:VAL:HG11	1.87	0.56
29:DE:48:THR:O	29:DE:52:VAL:HG23	2.06	0.56
30:DF:175:PRO:O	30:DF:176:PHE:HB2	2.05	0.56
30:DF:72:SER:HB2	30:DF:80:GLN:HB3	1.88	0.56
40:DP:12:MET:HB3	40:DP:76:HIS:CE1	2.41	0.56
40:DP:91:VAL:HG21	40:DP:96:LEU:HD21	1.87	0.56
42:DR:61:ALA:HB2	42:DR:98:ILE:HA	1.87	0.56
1:AA:1142:G:C2	1:AA:1143:G:C1'	2.84	0.56
1:AA:1277:C:H2'	1:AA:1279:G:H8	1.71	0.56
1:AA:270:A:C5	1:AA:271:C:C4	2.94	0.56
1:AA:542:G:C2	1:AA:543:U:C6	2.94	0.56
1:AA:647:C:O2'	1:AA:648:A:H5'	2.06	0.56
1:AA:696:A:O5'	1:AA:696:A:H8	1.88	0.56
9:AI:71:ILE:HG22	9:AI:72:SER:N	2.21	0.56
12:AL:43:LYS:HB2	12:AL:44:PRO:HD3	1.86	0.56
13:AM:113:LYS:HB3	13:AM:114:PRO:HD3	1.88	0.56
14:AN:100:SER:O	14:AN:101:TRP:HB3	2.05	0.56
14:AN:3:GLN:HA	14:AN:6:LYS:HE2	1.88	0.56
21:AU:13:VAL:CG1	21:AU:15:LEU:CD2	2.78	0.56
21:AU:9:GLU:OE1	21:AU:10:PRO:HG3	2.06	0.56
1:BA:1000:A:C2	1:BA:1041:G:N2	2.73	0.56
1:BA:1055:A:H5''	1:BA:1056:U:OP2	2.06	0.56
1:BA:1097:C:H2'	1:BA:1098:C:C6	2.41	0.56
1:BA:994:A:N7	1:BA:1216:A:H4'	2.21	0.56
1:BA:1292:G:C6	1:BA:1293:C:N4	2.74	0.56
1:BA:708:C:H2'	1:BA:709:U:C6	2.41	0.56
1:BA:96:U:O2'	1:BA:97:G:O5'	2.24	0.56
3:BC:154:GLY:O	3:BC:156:LEU:HD12	2.06	0.56
14:BN:73:PHE:CZ	14:BN:78:GLY:HA2	2.41	0.56
16:BP:48:GLU:CG	16:BP:49:GLY:H	2.19	0.56
25:CA:1419:A:O2'	25:CA:1420:A:H5''	2.06	0.56
25:CA:1925:C:H4'	25:CA:1926:U:C6	2.41	0.56
25:CA:2076:U:O2	25:CA:2076:U:O4'	2.24	0.56
25:CA:870:U:H2'	25:CA:871:U:H5'	1.86	0.56
26:CB:106:G:H2'	26:CB:107:G:O4'	2.06	0.56
26:CB:55:U:O2	26:CB:55:U:H2'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:59:ALA:HA	32:CH:62:LEU:CD2	2.35	0.56
36:CL:85:VAL:HB	36:CL:94:THR:HG23	1.87	0.56
25:CA:2376:A:N3	39:CO:111:ARG:NH1	2.53	0.56
44:CT:14:PRO:HD2	49:CY:33:ALA:HB1	1.88	0.56
25:DA:2345:G:OP2	52:D1:45:HIS:HE1	1.88	0.56
52:D1:3:GLY:O	52:D1:5:ARG:N	2.39	0.56
25:DA:1138:G:H2'	34:DJ:108:MET:HE2	1.88	0.56
25:DA:1494:A:N1	25:DA:1495:A:C5	2.74	0.56
25:DA:1551:A:N6	25:DA:1552:A:C2	2.74	0.56
25:DA:1867:G:H2'	25:DA:1868:C:H5'	1.88	0.56
25:DA:2473:U:H5''	25:DA:2474:U:OP2	2.05	0.56
25:DA:59:U:H6	25:DA:59:U:H3'	1.71	0.56
25:DA:920:A:H2'	25:DA:921:C:C6	2.40	0.56
28:DD:44:GLY:O	28:DD:45:TYR:HB3	2.06	0.56
30:DF:16:MET:O	30:DF:20:ASN:HA	2.06	0.56
33:DI:74:PRO:HG2	33:DI:77:VAL:CG2	2.34	0.56
35:DK:120:PRO:O	35:DK:121:GLU:HB2	2.06	0.56
36:DL:2:ARG:HA	36:DL:5:THR:HG23	1.88	0.56
1:AA:1101:A:H1'	1:AA:1102:A:O4'	2.05	0.56
1:AA:410:G:C4'	1:AA:411:A:OP1	2.53	0.56
1:AA:868:C:H2'	1:AA:869:G:H5'	1.86	0.56
1:AA:937:A:C2	1:AA:1379:G:C6	2.94	0.56
2:AB:86:CYS:HB2	2:AB:88:GLN:CD	2.26	0.56
3:AC:154:GLY:HA3	3:AC:162:ALA:HB1	1.88	0.56
4:AD:10:LEU:CD2	4:AD:62:ARG:HD3	2.36	0.56
4:AD:169:TRP:CD1	4:AD:185:PRO:HD3	2.41	0.56
4:AD:97:LEU:HD23	4:AD:117:VAL:HG11	1.88	0.56
8:AH:46:GLU:O	8:AH:47:ASP:CB	2.54	0.56
14:AN:15:LEU:HD23	14:AN:15:LEU:N	2.20	0.56
14:AN:20:PHE:CD2	14:AN:24:ALA:HB3	2.40	0.56
14:AN:35:ALA:HB2	14:AN:41:ARG:HB3	1.88	0.56
24:AY:112:LYS:O	24:AY:113:ASP:C	2.44	0.56
1:BA:1014:A:H2'	1:BA:1015:G:O4'	2.05	0.56
1:BA:108:G:N3	1:BA:108:G:O4'	2.39	0.56
1:BA:1166:G:H2'	1:BA:1168:U:OP2	2.06	0.56
1:BA:1325:C:O2'	1:BA:1326:U:H5'	2.06	0.56
1:BA:1451:U:O5'	1:BA:1452:C:H5	1.89	0.56
1:BA:188:C:O2	1:BA:189:A:C1'	2.54	0.56
2:BB:82:ALA:HA	2:BB:85:SER:HB3	1.88	0.56
3:BC:149:LYS:HB3	3:BC:168:ARG:CG	2.35	0.56
3:BC:89:VAL:HA	3:BC:92:ASP:OD1	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:20:ASN:HA	8:BH:64:TYR:HE2	1.71	0.56
10:BJ:48:ARG:HH11	10:BJ:48:ARG:HG2	1.71	0.56
14:BN:15:LEU:O	14:BN:55:SER:HB2	2.06	0.56
19:BS:35:ARG:HH21	19:BS:74:ALA:HB3	1.70	0.56
21:BU:25:ALA:HB3	23:BX:8:A:H5'	1.88	0.56
52:C1:50:GLU:O	52:C1:51:ALA:HB2	2.05	0.56
25:CA:1183:U:H2'	25:CA:1184:U:C6	2.41	0.56
25:CA:1531:C:H2'	25:CA:1532:A:C8	2.41	0.56
25:CA:1742:U:C2'	25:CA:1743:G:O5'	2.54	0.56
25:CA:229:C:H2'	25:CA:230:G:O5'	2.05	0.56
25:CA:435:C:H2'	25:CA:436:C:H5'	1.88	0.56
25:CA:703:U:O4	25:CA:704:G:C6	2.59	0.56
34:CJ:64:VAL:CG1	34:CJ:68:LYS:HB2	2.35	0.56
48:CX:3:VAL:HG13	48:CX:10:ARG:HB3	1.86	0.56
25:DA:464:U:H5'	53:D2:5:PHE:CD2	2.41	0.56
25:DA:1111:A:H4'	25:DA:1112:G:OP1	2.05	0.56
25:DA:120:U:H5''	25:DA:122:G:OP2	2.06	0.56
25:DA:1356:G:H2'	25:DA:1357:C:H6	1.71	0.56
25:DA:1446:C:H2'	25:DA:1447:C:C6	2.40	0.56
25:DA:1525:A:N7	25:DA:1526:C:C5	2.74	0.56
25:DA:1648:U:H2'	25:DA:1649:G:O4'	2.07	0.56
25:DA:2800:A:H3'	25:DA:2801:G:H5'	1.87	0.56
25:DA:333:G:H2'	25:DA:334:C:H6	1.71	0.56
25:DA:536:G:H2'	25:DA:537:G:O5'	2.05	0.56
56:DB:74:U:O2	46:DV:29:ILE:CD1	2.54	0.56
29:DE:131:THR:O	29:DE:132:LYS:C	2.43	0.56
29:DE:5:LEU:O	29:DE:6:LYS:C	2.44	0.56
30:DF:57:ALA:O	30:DF:60:SER:O	2.24	0.56
32:DH:119:ASN:N	32:DH:120:GLY:CA	2.69	0.56
34:DJ:17:VAL:HG22	34:DJ:55:ILE:HB	1.86	0.56
36:DL:127:VAL:HG13	36:DL:131:ALA:HB1	1.88	0.56
42:DR:39:LEU:CA	42:DR:49:ILE:CG2	2.83	0.56
42:DR:83:TYR:C	42:DR:83:TYR:CD1	2.79	0.56
43:DS:29:VAL:HG11	43:DS:55:ILE:HD13	1.88	0.56
44:DT:3:ARG:HD2	44:DT:3:ARG:N	2.21	0.56
50:DZ:36:GLU:O	50:DZ:37:ARG:HD3	2.06	0.56
1:AA:1060:U:C1'	10:AJ:54:SER:HB2	2.36	0.55
1:AA:1279:G:H5''	10:AJ:9:ARG:HH22	1.71	0.55
1:AA:499:A:N6	1:AA:547:A:H5''	2.21	0.55
1:AA:573:A:P	60:AA:1737:HOH:O	2.64	0.55
1:AA:918:A:C6	1:AA:919:A:C6	2.94	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:113:LEU:O	2:AB:117:GLU:HG2	2.05	0.55
2:AB:218:ALA:C	2:AB:219:THR:HG22	2.27	0.55
2:AB:19:THR:HB	2:AB:36:LYS:O	2.06	0.55
5:AE:120:HIS:O	5:AE:121:ASN:CB	2.54	0.55
5:AE:81:GLN:CD	5:AE:149:PRO:HB3	2.25	0.55
13:AM:113:LYS:HB2	13:AM:114:PRO:HD3	1.87	0.55
15:AO:10:ILE:O	15:AO:14:PHE:HD1	1.89	0.55
16:AP:52:LEU:O	16:AP:53:ASP:C	2.44	0.55
11:AK:93:GLU:OE2	21:AU:20:ARG:NH2	2.39	0.55
1:BA:100:G:C8	1:BA:101:A:C8	2.95	0.55
1:BA:114:U:H2'	1:BA:115:G:H5'	1.88	0.55
1:BA:1375:A:H2'	1:BA:1376:U:H5'	1.88	0.55
1:BA:924:C:O2'	1:BA:1502:A:N1	2.33	0.55
1:BA:511:C:H1'	1:BA:512:U:C6	2.41	0.55
1:BA:620:C:C1'	4:BD:131:ILE:HD13	2.36	0.55
2:BB:207:ARG:HB3	2:BB:211:LEU:HD13	1.87	0.55
2:BB:207:ARG:O	2:BB:209:VAL:N	2.38	0.55
3:BC:58:ARG:HA	3:BC:63:ILE:HA	1.87	0.55
4:BD:144:ILE:HG21	4:BD:149:LYS:HA	1.88	0.55
7:BG:105:GLU:HA	7:BG:108:ARG:HB2	1.87	0.55
16:BP:6:LEU:HD23	16:BP:17:TYR:CG	2.41	0.55
17:BQ:11:VAL:O	17:BQ:22:VAL:HA	2.06	0.55
19:BS:10:ILE:HG21	19:BS:40:PHE:CE2	2.42	0.55
54:C3:31:ILE:CG2	54:C3:34:LYS:HE3	2.36	0.55
25:CA:1340:U:O2	25:CA:1340:U:O4'	2.13	0.55
25:CA:1452:G:H5''	25:CA:1452:G:C8	2.41	0.55
25:CA:1871:A:C8	25:CA:1872:A:N1	2.74	0.55
25:CA:2144:G:O2'	25:CA:2147:A:N1	2.38	0.55
25:CA:2276:G:C2'	25:CA:2277:G:H5'	2.36	0.55
25:CA:358:U:H2'	25:CA:359:G:C8	2.41	0.55
25:CA:415:A:C2	25:CA:416:U:O2	2.58	0.55
25:CA:84:A:N3	25:CA:85:G:H1'	2.21	0.55
28:CD:12:THR:HG22	28:CD:13:ARG:H	1.71	0.55
30:CF:19:PHE:O	30:CF:20:ASN:C	2.44	0.55
32:CH:14:SER:OG	32:CH:17:ASP:HB2	2.06	0.55
33:CI:101:SER:HB3	33:CI:104:GLN:CG	2.37	0.55
33:CI:91:LYS:HB3	33:CI:94:LYS:HG3	1.87	0.55
41:CQ:26:ALA:HB1	41:CQ:33:VAL:HG21	1.89	0.55
41:CQ:75:TYR:CZ	41:CQ:79:ILE:HG13	2.41	0.55
49:CY:18:LEU:O	49:CY:22:LEU:N	2.39	0.55
54:D3:22:LYS:HA	54:D3:47:ALA:O	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1049:C:H2'	25:DA:1050:A:H5'	1.87	0.55
25:DA:1105:U:O2	25:DA:1106:G:N7	2.38	0.55
25:DA:1317:G:N2	25:DA:1336:A:C4	2.74	0.55
25:DA:1378:A:C2	25:DA:1380:G:C8	2.94	0.55
25:DA:2792:A:C2	25:DA:2793:C:C6	2.94	0.55
25:DA:391:A:C2	25:DA:411:G:C5	2.93	0.55
25:DA:621:A:OP2	25:DA:622:G:OP2	2.23	0.55
28:DD:16:THR:OG1	28:DD:20:VAL:HB	2.07	0.55
28:DD:55:LYS:HG3	28:DD:77:ARG:HA	1.88	0.55
31:DG:15:ASP:HB2	31:DG:26:LYS:HG2	1.88	0.55
33:DI:120:ASP:O	33:DI:123:ALA:HB3	2.06	0.55
25:DA:1277:G:H5'	38:DN:20:MET:HE1	1.88	0.55
43:DS:66:ILE:CD1	43:DS:66:ILE:N	2.69	0.55
1:AA:1243:C:H2'	1:AA:1244:G:C8	2.42	0.55
1:AA:1294:G:C6	1:AA:1295:U:C4	2.95	0.55
1:AA:138:G:H2'	1:AA:139:A:H5'	1.87	0.55
1:AA:299:G:N1	1:AA:300:A:C2	2.74	0.55
1:AA:404:G:N7	4:AD:1:ALA:N	2.54	0.55
1:AA:626:G:H2'	1:AA:627:G:H5'	1.88	0.55
1:AA:771:G:C2'	1:AA:772:U:H5'	2.36	0.55
1:AA:91:U:C6	1:AA:92:U:C6	2.94	0.55
2:AB:209:VAL:O	2:AB:211:LEU:N	2.40	0.55
2:AB:71:THR:O	2:AB:72:LYS:CB	2.55	0.55
2:AB:73:ARG:O	2:AB:74:ALA:HB2	2.06	0.55
5:AE:76:ASN:O	5:AE:77:ASN:CB	2.55	0.55
12:AL:101:LEU:HD13	12:AL:101:LEU:N	2.21	0.55
1:AA:1319:A:OP1	19:AS:4:LEU:HD21	2.06	0.55
19:AS:50:VAL:HG21	19:AS:70:LEU:O	2.06	0.55
1:BA:1314:C:H2'	1:BA:1315:U:H6	1.72	0.55
1:BA:525:C:H2'	1:BA:526:C:H5'	1.88	0.55
1:BA:687:A:C5	1:BA:701:U:C5	2.94	0.55
1:BA:981:U:H2'	1:BA:982:U:C5	2.41	0.55
1:BA:987:G:C2	1:BA:1219:A:C2	2.94	0.55
2:BB:124:THR:C	2:BB:125:PHE:CD2	2.80	0.55
2:BB:222:GLU:OE2	2:BB:225:SER:HA	2.05	0.55
12:BL:20:VAL:N	12:BL:21:PRO:HD2	2.21	0.55
13:BM:90:HIS:O	13:BM:92:ARG:N	2.40	0.55
18:BR:59:LYS:O	18:BR:62:ARG:HB2	2.05	0.55
25:CA:1078:U:H5''	25:CA:1079:C:OP1	2.07	0.55
25:CA:2144:G:C2'	25:CA:2147:A:H61	2.18	0.55
25:CA:2219:U:H2'	25:CA:2220:U:O5'	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2365:G:H2'	25:CA:2366:A:C8	2.42	0.55
25:CA:554:U:O2'	25:CA:555:G:H5'	2.06	0.55
25:CA:960:A:O3'	25:CA:961:C:H3'	2.06	0.55
27:CC:156:SER:O	27:CC:157:ALA:C	2.43	0.55
60:CA:3293:HOH:O	29:CE:98:LYS:HE2	2.07	0.55
30:CF:51:ASN:HB3	30:CF:146:ASP:CG	2.26	0.55
30:CF:43:ILE:HG22	30:CF:82:TYR:CE1	2.41	0.55
31:CG:154:GLU:OE2	31:CG:157:LYS:HB2	2.06	0.55
32:CH:129:GLU:HG2	32:CH:143:ILE:HG13	1.89	0.55
33:CI:24:GLY:O	33:CI:27:LEU:HD23	2.06	0.55
34:CJ:80:HIS:HB3	34:CJ:81:ILE:CG2	2.34	0.55
38:CN:103:ARG:HD3	38:CN:110:MET:HE3	1.88	0.55
39:CO:94:ARG:O	39:CO:96:GLY:N	2.39	0.55
49:CY:18:LEU:O	49:CY:22:LEU:CB	2.54	0.55
49:CY:5:GLU:C	49:CY:7:ARG:N	2.56	0.55
25:DA:1022:G:O6	34:DJ:68:LYS:HE2	2.05	0.55
25:DA:104:A:C5	25:DA:105:C:C5	2.94	0.55
25:DA:1181:U:H5''	25:DA:1182:G:OP2	2.06	0.55
25:DA:1773:A:N7	25:DA:1829:A:H1'	2.22	0.55
25:DA:2148:G:H2'	25:DA:2149:U:H6	1.71	0.55
25:DA:2311:A:C2	30:DF:84:ILE:HD11	2.41	0.55
25:DA:2441:U:OP1	25:DA:2441:U:H4'	2.05	0.55
25:DA:2748:A:C4	25:DA:2749:A:C8	2.94	0.55
25:DA:2813:A:H2'	25:DA:2814:A:C8	2.41	0.55
25:DA:503:A:H5'	25:DA:505:A:OP1	2.06	0.55
25:DA:7:G:H4'	34:DJ:15:TRP:CZ2	2.41	0.55
25:DA:962:G:H21	25:DA:2250:G:H1	1.54	0.55
25:DA:979:A:H2'	25:DA:982:C:H42	1.70	0.55
27:DC:231:HIS:NE2	27:DC:243:PRO:HA	2.20	0.55
25:DA:2250:G:OP1	37:DM:84:LYS:NZ	2.39	0.55
41:DQ:81:GLY:HA2	41:DQ:116:LEU:HD13	1.88	0.55
46:DV:63:ILE:O	46:DV:65:VAL:HG12	2.06	0.55
1:AA:1314:C:OP2	19:AS:5:LYS:NZ	2.38	0.55
1:AA:1322:C:O4'	1:AA:1322:C:O2	2.19	0.55
1:AA:113:G:C6	1:AA:315:A:N6	2.74	0.55
1:AA:52:C:O2'	1:AA:53:A:H5'	2.07	0.55
1:AA:589:U:H2'	1:AA:590:U:H6	1.71	0.55
2:AB:110:ILE:O	2:AB:111:LYS:C	2.43	0.55
2:AB:70:GLY:CA	2:AB:163:ILE:HG22	2.35	0.55
3:AC:5:HIS:CD2	3:AC:8:GLY:H	2.25	0.55
6:AF:64:VAL:HG12	6:AF:65:GLU:N	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:100:G:C5	1:BA:101:A:C5	2.94	0.55
1:BA:978:A:N7	1:BA:1318:A:N6	2.54	0.55
1:BA:175:C:H2'	1:BA:176:C:C6	2.42	0.55
1:BA:211:G:C2'	1:BA:212:G:O4'	2.54	0.55
1:BA:279:A:H4'	1:BA:281:G:C8	2.42	0.55
1:BA:306:A:C2'	1:BA:307:C:H5'	2.36	0.55
1:BA:35:G:H2'	1:BA:36:C:C6	2.41	0.55
1:BA:417:G:C5	1:BA:418:C:C4	2.93	0.55
2:BB:172:ILE:HG22	2:BB:176:ASN:OD1	2.06	0.55
3:BC:129:PHE:CE2	3:BC:156:LEU:HD23	2.41	0.55
4:BD:86:GLY:CA	4:BD:196:GLU:HB3	2.37	0.55
7:BG:68:VAL:O	7:BG:70:PRO:HD3	2.06	0.55
9:BI:25:GLY:H	9:BI:58:GLU:CA	2.19	0.55
11:BK:13:LYS:CD	11:BK:13:LYS:C	2.75	0.55
1:BA:451:A:H5'	16:BP:70:ARG:HH12	1.71	0.55
25:CA:236:C:H2'	25:CA:237:C:H6	1.71	0.55
25:CA:611:C:C2'	25:CA:612:G:H5'	2.36	0.55
26:CB:41:G:C6	30:CF:68:LYS:HE2	2.42	0.55
26:CB:64:G:H2'	26:CB:65:U:C6	2.41	0.55
27:CC:182:LYS:O	27:CC:183:VAL:HG23	2.06	0.55
29:CE:12:LEU:C	29:CE:12:LEU:HD23	2.27	0.55
30:CF:142:TYR:HA	30:CF:145:VAL:HG13	1.87	0.55
31:CG:86:LEU:HD11	31:CG:132:LEU:HD12	1.88	0.55
33:CI:46:ASP:CA	33:CI:50:LYS:HD2	2.35	0.55
49:CY:18:LEU:CD2	49:CY:22:LEU:HD22	2.35	0.55
51:D0:54:ILE:CG2	51:D0:55:ALA:N	2.70	0.55
25:DA:1355:G:C2	25:DA:1356:G:C8	2.95	0.55
25:DA:1542:U:C2'	25:DA:1543:G:O5'	2.54	0.55
25:DA:1726:C:H2'	25:DA:1727:C:H6	1.70	0.55
25:DA:2025:C:P	60:DA:3477:HOH:O	2.64	0.55
25:DA:2221:G:C2'	25:DA:2222:C:H5'	2.36	0.55
25:DA:1783:A:N1	25:DA:2587:A:H2'	2.21	0.55
25:DA:2660:A:H2'	25:DA:2661:G:C8	2.41	0.55
25:DA:2730:C:C2'	25:DA:2731:G:O5'	2.54	0.55
25:DA:2884:U:O2	25:DA:2884:U:O5'	2.23	0.55
25:DA:680:C:H2'	25:DA:681:G:C8	2.40	0.55
25:DA:817:C:P	60:DA:3585:HOH:O	2.63	0.55
25:DA:863:A:C2'	25:DA:864:G:O5'	2.54	0.55
56:DB:60:C:H2'	56:DB:61:G:H5'	1.88	0.55
33:DI:3:LYS:HD2	33:DI:4:VAL:H	1.72	0.55
37:DM:2:LEU:HD12	37:DM:2:LEU:N	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1277:G:H4'	38:DN:20:MET:HE2	1.88	0.55
42:DR:66:HIS:CE1	42:DR:94:THR:CG2	2.88	0.55
44:DT:26:LYS:O	44:DT:26:LYS:HG2	2.06	0.55
46:DV:51:GLN:HB3	46:DV:56:PHE:CE2	2.42	0.55
48:DX:32:LEU:O	48:DX:33:HIS:CD2	2.60	0.55
25:DA:77:G:OP1	49:DY:52:ARG:HD3	2.06	0.55
1:AA:246:A:H4'	1:AA:247:G:OP1	2.07	0.55
1:AA:353:A:H2'	1:AA:354:G:OP2	2.05	0.55
4:AD:167:PRO:CG	4:AD:170:LEU:HD11	2.37	0.55
4:AD:169:TRP:NE1	4:AD:185:PRO:CG	2.66	0.55
4:AD:150:LYS:HA	4:AD:177:MET:CE	2.36	0.55
5:AE:132:PRO:C	5:AE:134:ASN:H	2.09	0.55
5:AE:152:VAL:HG22	5:AE:153:ALA:N	2.21	0.55
6:AF:86:ARG:NH1	6:AF:86:ARG:CG	2.69	0.55
8:AH:24:VAL:O	8:AH:24:VAL:HG13	2.07	0.55
10:AJ:100:ILE:HG13	10:AJ:101:SER:N	2.22	0.55
10:AJ:5:ARG:HE	10:AJ:79:PRO:HG3	1.71	0.55
11:AK:50:GLY:O	11:AK:51:PHE:CD2	2.58	0.55
13:AM:94:LEU:CB	13:AM:95:PRO:CD	2.83	0.55
16:AP:50:THR:O	16:AP:51:ARG:C	2.44	0.55
16:AP:75:ILE:O	16:AP:77:GLU:N	2.39	0.55
19:AS:40:PHE:O	19:AS:43:MET:HG3	2.06	0.55
11:AK:110:THR:HG23	21:AU:4:LYS:HB3	1.87	0.55
1:BA:1093:A:C2	1:BA:1095:U:H4'	2.41	0.55
1:BA:1273:C:C5	1:BA:1274:A:N7	2.74	0.55
1:BA:1379:G:O6	7:BG:1:PRO:HD2	2.06	0.55
1:BA:349:A:O2'	1:BA:350:G:H5'	2.06	0.55
1:BA:403:C:O2'	1:BA:404:G:H5'	2.07	0.55
1:BA:935:A:C2	1:BA:936:C:C2	2.94	0.55
2:BB:180:ILE:HG22	2:BB:181:PRO:O	2.07	0.55
4:BD:195:ASN:HB3	4:BD:197:HIS:CD2	2.41	0.55
4:BD:31:CYS:O	4:BD:32:LYS:CB	2.54	0.55
4:BD:3:TYR:CE1	4:BD:5:GLY:HA3	2.41	0.55
5:BE:150:GLU:CG	5:BE:151:MET:SD	2.95	0.55
7:BG:137:ARG:NH2	7:BG:138:GLU:HG2	2.21	0.55
15:BO:75:ALA:C	15:BO:77:TYR:N	2.56	0.55
15:BO:77:TYR:O	15:BO:80:LEU:N	2.39	0.55
17:BQ:15:LYS:O	17:BQ:16:MET:SD	2.65	0.55
18:BR:24:ASP:O	18:BR:27:THR:N	2.39	0.55
22:BV:54:U:O5'	22:BV:54:U:H6	1.90	0.55
22:BV:74:C:H5'	22:BV:75:C:OP2	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:C3:16:THR:HG23	54:C3:20:GLY:O	2.06	0.55
25:CA:100:U:C2	25:CA:101:A:N6	2.75	0.55
25:CA:1057:A:C5	25:CA:1086:A:H2'	2.41	0.55
25:CA:1707:G:O2'	25:CA:1708:C:H5'	2.07	0.55
25:CA:2519:U:C5	25:CA:2541:A:C6	2.94	0.55
25:CA:2571:U:O2'	28:CD:151:THR:HG22	2.06	0.55
25:CA:2846:G:H2'	25:CA:2847:U:O4'	2.07	0.55
25:CA:545:U:O2	25:CA:545:U:O5'	2.25	0.55
25:CA:806:C:O2	25:CA:2444:G:O2'	2.25	0.55
25:CA:851:C:H2'	25:CA:852:U:C6	2.40	0.55
29:CE:108:ILE:HD12	36:CL:2:ARG:HH12	1.71	0.55
25:CA:2305:U:H3	30:CF:150:GLY:HA3	1.67	0.55
31:CG:123:GLU:CD	31:CG:124:CYS:N	2.60	0.55
33:CI:102:ARG:N	33:CI:141:ASP:HA	2.21	0.55
33:CI:6:ALA:HB1	33:CI:60:VAL:HG23	1.88	0.55
45:CU:97:SER:O	45:CU:98:ASN:CB	2.54	0.55
46:CV:93:ARG:O	46:CV:94:ALA:HB2	2.05	0.55
25:DA:1184:U:O2'	25:DA:1185:G:H5'	2.06	0.55
25:DA:1497:U:H3'	25:DA:1498:C:H6	1.71	0.55
25:DA:1906:G:H5''	25:DA:1929:G:O2'	2.06	0.55
25:DA:2078:C:H2'	25:DA:2079:U:O4'	2.06	0.55
25:DA:2204:G:H2'	25:DA:2205:A:H8	1.72	0.55
25:DA:2554:U:C4	25:DA:2555:U:O4	2.59	0.55
25:DA:614:A:O2'	25:DA:615:U:OP2	2.24	0.55
25:DA:665:U:N3	25:DA:666:A:N7	2.55	0.55
25:DA:2032:G:C2	28:DD:150:GLN:HG2	2.42	0.55
33:DI:102:ARG:O	33:DI:106:GLN:HB2	2.07	0.55
36:DL:119:PRO:HG3	36:DL:138:ALA:O	2.06	0.55
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.07	0.55
1:AA:1222:G:C6	1:AA:1223:C:C4	2.95	0.55
1:AA:1313:U:P	19:AS:5:LYS:CB	2.94	0.55
1:AA:1253:G:H1'	1:AA:1355:G:O2'	2.07	0.55
1:AA:1462:C:H2'	1:AA:1463:U:C6	2.41	0.55
1:AA:504:C:O4'	1:AA:510:A:C2	2.59	0.55
1:AA:769:G:H2'	1:AA:770:C:O5'	2.07	0.55
2:AB:116:LEU:HG	2:AB:140:LEU:CD1	2.37	0.55
4:AD:3:TYR:CD1	4:AD:3:TYR:O	2.60	0.55
5:AE:132:PRO:HA	5:AE:135:VAL:CG1	2.36	0.55
5:AE:99:SER:O	5:AE:100:GLU:C	2.44	0.55
8:AH:33:VAL:HG12	8:AH:34:ALA:N	2.21	0.55
8:AH:4:ASP:HB2	8:AH:80:PRO:CG	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:33:GLY:HA3	10:AJ:83:THR:CB	2.37	0.55
11:AK:30:ILE:CB	11:AK:45:THR:HG22	2.37	0.55
11:AK:91:GLY:O	11:AK:95:THR:CG2	2.54	0.55
13:AM:21:ILE:HG22	13:AM:22:TYR:O	2.06	0.55
21:AU:35:GLU:OE2	21:AU:37:TYR:HD1	1.90	0.55
21:AU:39:LYS:N	21:AU:40:PRO:HD2	2.21	0.55
1:BA:1141:C:O2'	1:BA:1142:G:O5'	2.23	0.55
1:BA:1299:A:C6	1:BA:1301:U:O2	2.60	0.55
1:BA:1368:A:H2'	1:BA:1369:C:C6	2.40	0.55
1:BA:149:A:C2'	1:BA:150:U:H5'	2.36	0.55
1:BA:389:A:C6	1:BA:390:U:H1'	2.42	0.55
1:BA:687:A:C4	1:BA:701:U:H5	2.25	0.55
1:BA:791:G:C2'	1:BA:792:A:H5'	2.36	0.55
1:BA:76:G:N2	1:BA:95:C:C2	2.74	0.55
6:BF:18:VAL:HG12	6:BF:19:PRO:N	2.21	0.55
8:BH:7:ALA:HB2	8:BH:76:ARG:HD2	1.88	0.55
12:BL:43:LYS:HB2	12:BL:44:PRO:HD3	1.89	0.55
14:BN:83:LYS:HA	14:BN:83:LYS:HE2	1.87	0.55
16:BP:77:GLU:C	16:BP:79:ASN:H	2.08	0.55
18:BR:39:VAL:HG13	18:BR:40:PRO:HD2	1.88	0.55
25:CA:2392:A:H5'	54:C3:27:ASN:OD1	2.07	0.55
25:CA:1167:C:C2'	25:CA:1168:G:H5''	2.35	0.55
25:CA:1243:C:C2'	25:CA:1244:A:O5'	2.53	0.55
25:CA:1266:G:O6	43:CS:13:SER:HB3	2.06	0.55
25:CA:1458:U:H4'	25:CA:1459:G:O5'	2.06	0.55
25:CA:2751:G:C4	31:CG:2:ARG:CD	2.90	0.55
26:CB:30:C:H2'	26:CB:31:C:H5'	1.88	0.55
27:CC:123:ILE:O	27:CC:123:ILE:HG22	2.06	0.55
28:CD:2:ILE:HD13	28:CD:90:PHE:CE1	2.42	0.55
30:CF:107:VAL:HG12	30:CF:108:PRO:CD	2.36	0.55
30:CF:42:ALA:CB	30:CF:45:ASP:O	2.54	0.55
32:CH:14:SER:HB3	32:CH:17:ASP:OD2	2.05	0.55
32:CH:60:GLU:O	32:CH:63:ALA:HB3	2.06	0.55
34:CJ:29:ALA:HA	34:CJ:32:LEU:HB2	1.89	0.55
46:CV:4:ILE:HD11	46:CV:56:PHE:HE1	1.71	0.55
25:DA:1045:C:H4'	25:DA:1047:G:N7	2.21	0.55
25:DA:133:U:H3'	25:DA:133:U:C6	2.41	0.55
25:DA:182:A:C5	25:DA:183:C:C4	2.94	0.55
25:DA:2249:U:H4'	25:DA:2250:G:OP2	2.06	0.55
25:DA:2403:C:N3	25:DA:2404:U:C5	2.74	0.55
56:DB:62:C:C2	56:DB:63:C:C5	2.95	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:193:VAL:O	29:DE:197:GLU:HB2	2.06	0.55
25:DA:674:G:H1'	29:DE:69:ARG:HD3	1.88	0.55
25:DA:659:G:H4'	29:DE:95:LYS:HD3	1.89	0.55
31:DG:148:ARG:HA	31:DG:161:VAL:HG11	1.89	0.55
32:DH:25:TYR:CZ	32:DH:30:LEU:HD11	2.42	0.55
32:DH:3:VAL:HA	32:DH:39:ALA:N	2.21	0.55
34:DJ:3:THR:HG23	34:DJ:4:PHE:N	2.22	0.55
36:DL:119:PRO:CA	36:DL:138:ALA:O	2.55	0.55
1:AA:1168:U:O2	1:AA:1168:U:C2'	2.53	0.55
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.70	0.55
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.87	0.55
1:AA:976:G:H5'	1:AA:977:A:OP1	2.07	0.55
3:AC:154:GLY:CA	3:AC:162:ALA:HB1	2.37	0.55
3:AC:164:THR:O	3:AC:165:GLU:HB2	2.06	0.55
6:AF:3:HIS:H	6:AF:92:THR:HG23	1.72	0.55
9:AI:51:LEU:HA	9:AI:54:VAL:CG2	2.36	0.55
9:AI:90:ASP:OD2	9:AI:93:LEU:HG	2.06	0.55
13:AM:106:ARG:HG2	13:AM:106:ARG:NH1	2.22	0.55
19:AS:50:VAL:CG2	19:AS:70:LEU:HD13	2.36	0.55
20:AT:7:LYS:O	20:AT:10:ALA:HB3	2.06	0.55
1:BA:1088:G:C4	1:BA:1089:G:C8	2.93	0.55
1:BA:1124:G:O2'	1:BA:1145:A:N6	2.39	0.55
1:BA:1148:U:C5	1:BA:1149:C:C4	2.95	0.55
1:BA:1148:U:H2'	1:BA:1149:C:O4'	2.05	0.55
1:BA:1518:A:C2	1:BA:1519:A:C2	2.95	0.55
1:BA:375:U:C4	1:BA:376:G:N7	2.74	0.55
3:BC:39:ARG:HG2	3:BC:54:ILE:HD11	1.87	0.55
4:BD:10:LEU:N	4:BD:10:LEU:HD23	2.21	0.55
6:BF:88:MET:CE	18:BR:63:TYR:CD2	2.90	0.55
7:BG:106:ALA:HB1	7:BG:122:GLU:HG3	1.88	0.55
7:BG:123:LEU:O	7:BG:126:ALA:HB3	2.07	0.55
9:BI:117:LEU:N	9:BI:117:LEU:CD1	2.70	0.55
15:BO:25:GLU:OE2	15:BO:76:ARG:HB3	2.07	0.55
20:BT:85:LEU:O	20:BT:85:LEU:HG	2.07	0.55
21:BU:24:LYS:HG2	21:BU:25:ALA:N	2.21	0.55
25:CA:1045:C:O5'	25:CA:1046:A:H5'	2.07	0.55
25:CA:1073:A:H3'	25:CA:1074:G:H5'	1.86	0.55
25:CA:1178:C:C2'	25:CA:1179:G:N7	2.69	0.55
25:CA:1495:A:O2'	25:CA:1496:A:H5'	2.07	0.55
25:CA:1830:C:O5'	25:CA:1830:C:H6	1.89	0.55
25:CA:213:A:C2	25:CA:214:G:C5	2.95	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2163:A:H3'	25:CA:2164:C:H4'	1.89	0.55
25:CA:2313:C:H6	25:CA:2313:C:H3'	1.71	0.55
25:CA:2375:G:O2'	25:CA:2377:A:N7	2.32	0.55
25:CA:2544:G:O2'	25:CA:2545:G:H5'	2.06	0.55
25:CA:2704:C:H3'	25:CA:2705:A:H8	1.71	0.55
25:CA:415:A:C2	25:CA:2409:G:C2	2.94	0.55
25:CA:45:G:C4'	25:CA:46:G:H5'	2.36	0.55
28:CD:101:PHE:CE2	28:CD:203:VAL:HG12	2.41	0.55
28:CD:39:ASP:OD1	28:CD:46:ARG:HD2	2.06	0.55
31:CG:37:ASN:O	31:CG:38:ASP:HB3	2.04	0.55
25:CA:2747:G:O2'	31:CG:66:THR:HG22	2.07	0.55
32:CH:129:GLU:HA	32:CH:142:VAL:O	2.06	0.55
32:CH:2:GLN:O	32:CH:19:VAL:O	2.24	0.55
40:CP:102:ARG:CD	40:CP:106:ALA:O	2.55	0.55
25:DA:108:G:O2'	25:DA:109:C:H5'	2.06	0.55
25:DA:1315:C:C2	25:DA:1338:G:N2	2.75	0.55
25:DA:1346:G:C2'	25:DA:1347:A:O5'	2.54	0.55
25:DA:1483:G:C2	25:DA:1484:U:C6	2.95	0.55
25:DA:1717:A:C2	25:DA:1718:G:H1'	2.42	0.55
25:DA:1748:C:H2'	25:DA:1749:A:O5'	2.07	0.55
25:DA:729:G:H2'	25:DA:1775:U:H1'	1.87	0.55
25:DA:1936:A:H2	25:DA:1943:U:N3	2.05	0.55
25:DA:2014:A:H2'	25:DA:2015:A:C8	2.42	0.55
25:DA:2747:G:O6	25:DA:2755:C:H5''	2.06	0.55
25:DA:363:G:H2'	25:DA:364:C:H6	1.71	0.55
25:DA:996:A:H4'	41:DQ:90:ASP:OD1	2.07	0.55
56:DB:20:G:C2'	56:DB:21:G:H5'	2.37	0.55
56:DB:51:G:C8	39:DO:64:TYR:HE2	2.24	0.55
29:DE:5:LEU:O	29:DE:7:ASP:N	2.39	0.55
32:DH:11:ASN:C	32:DH:12:LEU:HD23	2.26	0.55
33:DI:14:ALA:HB1	33:DI:45:THR:HG21	1.87	0.55
40:DP:81:ASP:O	40:DP:81:ASP:OD2	2.24	0.55
44:DT:32:LEU:O	44:DT:34:VAL:CG1	2.54	0.55
57:DW:46:ASN:HB3	57:DW:59:ALA:HB3	1.88	0.55
1:AA:1107:C:C5	1:AA:1108:G:C8	2.94	0.55
1:AA:1202:U:H2'	1:AA:1203:C:O4'	2.07	0.55
1:AA:1226:C:C5	13:AM:102:LYS:HB2	2.42	0.55
1:AA:377:G:OP1	16:AP:5:ARG:HD3	2.07	0.55
1:AA:373:A:C4	1:AA:482:A:N7	2.75	0.55
2:AB:147:LEU:CD2	2:AB:150:ILE:HG21	2.35	0.55
2:AB:206:ILE:HD13	2:AB:207:ARG:H	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:134:VAL:CG2	7:AG:135:LYS:N	2.69	0.55
8:AH:28:SER:HB3	8:AH:56:PRO:HB3	1.89	0.55
15:AO:63:ARG:NH1	15:AO:87:ARG:NH2	2.55	0.55
16:AP:50:THR:HG22	16:AP:50:THR:O	2.06	0.55
1:BA:1007:U:H2'	1:BA:1008:U:C5'	2.36	0.55
1:BA:1124:G:N2	1:BA:1127:G:N2	2.55	0.55
1:BA:1160:G:C2	1:BA:1161:C:C2	2.95	0.55
1:BA:1172:C:H2'	1:BA:1173:U:C6	2.41	0.55
1:BA:1276:G:C4	1:BA:1277:C:C5	2.95	0.55
1:BA:1317:C:H2'	1:BA:1318:A:O4'	2.07	0.55
1:BA:1375:A:C2'	1:BA:1376:U:H5'	2.37	0.55
1:BA:307:C:H2'	1:BA:308:C:O5'	2.07	0.55
1:BA:84:U:O2'	1:BA:85:U:H5'	2.07	0.55
1:BA:928:G:O2'	1:BA:929:G:H5'	2.06	0.55
9:BI:26:LYS:O	9:BI:62:LEU:HD23	2.07	0.55
11:BK:121:ARG:NH1	21:BU:35:GLU:HG2	2.22	0.55
12:BL:89:LEU:CB	12:BL:92:VAL:HG21	2.34	0.55
14:BN:44:ALA:HA	14:BN:47:LYS:HG3	1.89	0.55
14:BN:91:GLY:O	14:BN:93:ILE:N	2.40	0.55
25:CA:1171:G:C2	25:CA:1172:C:O2	2.60	0.55
25:CA:1503:A:C2	25:CA:1504:A:C4	2.94	0.55
25:CA:1863:G:C2	25:CA:1880:U:O2	2.60	0.55
25:CA:2334:U:H4'	25:CA:2335:A:OP2	2.06	0.55
25:CA:2647:U:O2'	25:CA:2648:G:H5'	2.07	0.55
25:CA:280:U:H2'	25:CA:281:C:C6	2.42	0.55
25:CA:907:G:H2'	25:CA:908:C:H5'	1.89	0.55
27:CC:124:LYS:HB2	27:CC:125:PRO:HD2	1.89	0.55
27:CC:129:LEU:CD2	27:CC:129:LEU:N	2.70	0.55
27:CC:195:GLY:O	27:CC:196:ASN:O	2.25	0.55
29:CE:150:THR:HG22	29:CE:170:ARG:O	2.06	0.55
25:CA:1063:G:H4'	33:CI:76:ALA:CB	2.36	0.55
38:CN:49:GLU:N	38:CN:50:PRO:CD	2.70	0.55
39:CO:27:VAL:HG12	39:CO:93:ASP:HB3	1.87	0.55
40:CP:36:LYS:HE3	40:CP:38:ARG:HE	1.72	0.55
55:D4:25:VAL:HB	55:D4:35:GLN:HG3	1.88	0.55
25:DA:1241:A:C8	25:DA:1242:U:C5	2.94	0.55
25:DA:1392:A:C5	25:DA:1393:A:N6	2.75	0.55
25:DA:1436:G:C2'	25:DA:1437:C:O5'	2.55	0.55
25:DA:1606:C:H6	25:DA:1606:C:H3'	1.70	0.55
25:DA:2262:U:C2'	25:DA:2263:C:H5'	2.37	0.55
25:DA:2292:U:C2	25:DA:2293:G:C8	2.94	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2523:G:O2'	25:DA:2524:G:H5'	2.07	0.55
25:DA:402:A:C2'	25:DA:403:U:H5'	2.36	0.55
27:DC:158:GLY:N	27:DC:194:VAL:HG22	2.21	0.55
29:DE:109:LEU:HD13	29:DE:180:LEU:CD1	2.37	0.55
30:DF:121:PHE:HB3	30:DF:162:ASP:HB2	1.88	0.55
31:DG:26:LYS:O	31:DG:27:GLY:O	2.25	0.55
32:DH:40:THR:O	32:DH:41:LYS:C	2.44	0.55
33:DI:7:TYR:HB3	33:DI:58:ILE:O	2.06	0.55
36:DL:96:LYS:HE2	36:DL:103:ILE:O	2.06	0.55
40:DP:60:VAL:O	40:DP:70:GLU:HA	2.07	0.55
57:DW:32:ILE:HG23	57:DW:54:THR:HG23	1.88	0.55
1:AA:1153:G:C6	1:AA:1154:G:N7	2.74	0.55
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.72	0.55
1:AA:5:U:OP1	1:AA:5:U:C2	2.60	0.55
1:AA:570:G:H1'	1:AA:820:U:C4	2.42	0.55
2:AB:138:ARG:HG3	2:AB:139:GLU:H	1.72	0.55
2:AB:55:GLU:HA	2:AB:58:LYS:HB3	1.87	0.55
5:AE:45:VAL:O	5:AE:70:MET:CG	2.54	0.55
6:AF:42:TRP:CZ2	6:AF:61:LEU:HB2	2.42	0.55
13:AM:28:ARG:CZ	13:AM:62:PHE:CB	2.85	0.55
11:AK:111:ASP:O	21:AU:3:ILE:CG2	2.55	0.55
24:AY:131:ASN:O	24:AY:135:ASP:OD2	2.24	0.55
1:BA:1012:A:C2	1:BA:1018:G:C2	2.95	0.55
1:BA:1192:C:C5	1:BA:1193:G:C8	2.95	0.55
1:BA:1211:U:C2'	1:BA:1212:U:OP2	2.54	0.55
1:BA:1262:C:C5	1:BA:1263:C:C4	2.95	0.55
1:BA:420:U:H2'	1:BA:421:U:H5''	1.88	0.55
1:BA:474:G:C5	1:BA:475:C:C5	2.95	0.55
1:BA:786:G:C2	1:BA:787:A:H1'	2.42	0.55
1:BA:972:C:H2'	10:BJ:57:VAL:HG23	1.89	0.55
2:BB:94:ARG:H	2:BB:94:ARG:NE	2.05	0.55
8:BH:7:ALA:CB	8:BH:76:ARG:HG3	2.37	0.55
8:BH:79:ARG:HB2	8:BH:80:PRO:HD3	1.87	0.55
9:BI:16:ALA:HB2	9:BI:66:VAL:HG23	1.88	0.55
10:BJ:34:ALA:HB3	10:BJ:78:GLU:HG2	1.89	0.55
13:BM:1:ALA:CB	13:BM:9:PRO:O	2.55	0.55
22:BV:75:C:H3'	22:BV:76:A:H3'	1.89	0.55
25:CA:1441:G:H2'	25:CA:1442:U:H6	1.72	0.55
25:CA:1762:A:H8	25:CA:1762:A:O5'	1.90	0.55
25:CA:2751:G:C4	31:CG:2:ARG:HD2	2.42	0.55
25:CA:282:A:H2'	25:CA:283:G:H8	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:68:ARG:O	31:CG:68:ARG:HD3	2.06	0.55
31:CG:8:VAL:HG12	31:CG:49:LEU:O	2.06	0.55
32:CH:122:LEU:HD13	32:CH:128:HIS:CD2	2.42	0.55
25:DA:126:A:O5'	53:D2:19:ARG:HG3	2.06	0.55
25:DA:1063:G:H3'	25:DA:1064:C:H6	1.70	0.55
25:DA:1425:G:H2'	25:DA:1426:G:C8	2.41	0.55
25:DA:1436:G:H2'	25:DA:1437:C:O5'	2.07	0.55
25:DA:1459:G:O2'	25:DA:1460:U:H2'	2.06	0.55
25:DA:1946:U:C2'	25:DA:1947:C:H5'	2.37	0.55
25:DA:2193:G:C2	25:DA:2194:U:C5	2.95	0.55
25:DA:2207:C:N3	25:DA:2218:G:C2	2.75	0.55
25:DA:2271:G:H8	25:DA:2271:G:O5'	1.90	0.55
25:DA:2776:A:C6	25:DA:2778:A:C6	2.95	0.55
25:DA:90:U:H3'	25:DA:91:A:C8	2.42	0.55
27:DC:236:GLY:O	27:DC:237:ARG:HB2	2.07	0.55
27:DC:32:LEU:O	27:DC:63:ILE:HD12	2.06	0.55
30:DF:126:ASN:OD1	30:DF:156:THR:HA	2.07	0.55
30:DF:7:TYR:O	30:DF:12:VAL:HG23	2.06	0.55
32:DH:32:PRO:HG3	48:DX:38:TRP:HB3	1.88	0.55
32:DH:9:VAL:HG22	32:DH:35:LYS:CE	2.36	0.55
33:DI:93:ASN:HD21	33:DI:134:SER:HA	1.72	0.55
33:DI:57:VAL:HG12	33:DI:58:ILE:N	2.22	0.55
36:DL:77:ILE:HG22	36:DL:78:ARG:O	2.06	0.55
56:DB:9:G:OP1	39:DO:15:ARG:HD2	2.07	0.55
42:DR:39:LEU:N	42:DR:39:LEU:HD12	2.21	0.55
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.36	0.55
1:AA:1294:G:N3	1:AA:1294:G:H2'	2.21	0.55
1:AA:142:G:H5'	1:AA:143:A:OP2	2.07	0.55
1:AA:175:C:C2'	1:AA:176:C:H5'	2.37	0.55
1:AA:694:A:H2'	1:AA:695:A:O5'	2.07	0.55
2:AB:86:CYS:HB2	2:AB:88:GLN:OE1	2.05	0.55
3:AC:7:ASN:OD1	3:AC:7:ASN:C	2.46	0.55
5:AE:105:ILE:HD11	5:AE:123:LEU:HB3	1.89	0.55
9:AI:46:VAL:O	9:AI:49:GLN:HB2	2.06	0.55
13:AM:106:ARG:HG2	13:AM:106:ARG:HH11	1.71	0.55
13:AM:2:ARG:HG3	13:AM:3:ILE:N	2.19	0.55
14:AN:78:GLY:C	14:AN:79:LEU:HG	2.27	0.55
1:BA:1157:A:C6	1:BA:1180:A:C5	2.94	0.55
1:BA:1261:A:C4	1:BA:1262:C:C6	2.95	0.55
1:BA:486:U:H2'	1:BA:486:U:O2	2.07	0.55
1:BA:652:U:H1'	1:BA:653:U:C5	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:82:G:C6	1:BA:83:C:C2	2.94	0.55
3:BC:96:VAL:HB	3:BC:97:PRO:HD2	1.88	0.55
6:BF:46:GLN:HA	6:BF:56:LYS:CG	2.37	0.55
11:BK:76:TYR:CD1	11:BK:76:TYR:N	2.75	0.55
20:BT:27:MET:O	20:BT:31:ILE:HG13	2.07	0.55
52:C1:16:THR:CG2	52:C1:41:VAL:HG11	2.36	0.55
25:CA:1071:G:H8	25:CA:1071:G:OP2	1.90	0.55
25:CA:1187:G:HO2'	25:CA:1188:U:H6	1.55	0.55
25:CA:1248:G:OP1	41:CQ:1:ALA:N	2.39	0.55
25:CA:188:G:H2'	25:CA:189:G:H5'	1.89	0.55
25:CA:1932:A:H2'	25:CA:1933:G:O4'	2.07	0.55
25:CA:2619:C:OP1	28:CD:157:LYS:HE2	2.06	0.55
30:CF:105:ILE:C	30:CF:108:PRO:HD2	2.27	0.55
31:CG:150:TYR:O	31:CG:151:ARG:HB2	2.07	0.55
31:CG:8:VAL:HG12	31:CG:49:LEU:HB2	1.88	0.55
33:CI:18:ASN:CB	33:CI:37:PHE:HB3	2.35	0.55
35:CK:90:ASN:O	35:CK:91:SER:HB3	2.06	0.55
39:CO:31:THR:O	39:CO:102:ARG:NH1	2.37	0.55
39:CO:24:THR:HG22	39:CO:42:PRO:CD	2.37	0.55
45:CU:35:VAL:O	45:CU:36:GLU:C	2.45	0.55
55:D4:26:ILE:N	55:D4:26:ILE:HD13	2.21	0.55
25:DA:1744:A:H3'	25:DA:1745:A:H8	1.71	0.55
25:DA:1794:A:O4'	25:DA:1900:A:C2	2.60	0.55
25:DA:666:A:C4	25:DA:667:U:C5	2.94	0.55
25:DA:753:A:H2'	25:DA:754:U:C6	2.42	0.55
25:DA:962:G:O2'	25:DA:963:U:H5'	2.06	0.55
56:DB:89:U:OP2	56:DB:89:U:C4'	2.55	0.55
29:DE:175:ILE:O	29:DE:175:ILE:HG13	2.06	0.55
30:DF:7:TYR:HA	30:DF:11:VAL:CB	2.35	0.55
31:DG:120:ILE:HG21	31:DG:140:ILE:HG22	1.89	0.55
39:DO:75:GLY:HA3	39:DO:106:LEU:HD23	1.89	0.55
45:DU:44:HIS:CD2	45:DU:57:ILE:HG12	2.41	0.55
49:DY:9:LYS:H	49:DY:12:GLU:CG	2.19	0.55
1:AA:188:C:O2	1:AA:188:C:H2'	2.05	0.55
1:AA:257:G:C2	1:AA:258:G:C5	2.95	0.55
1:AA:55:A:C2	1:AA:56:U:H1'	2.42	0.55
1:AA:985:C:C2	1:AA:1221:G:N2	2.75	0.55
2:AB:22:TRP:HA	2:AB:189:ASN:HA	1.89	0.55
2:AB:202:ASN:C	2:AB:202:ASN:OD1	2.45	0.55
2:AB:81:ASP:O	2:AB:82:ALA:C	2.45	0.55
1:AA:1080:A:OP1	5:AE:51:LYS:CE	2.55	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:64:GLU:OE2	5:AE:68:ARG:NH2	2.40	0.55
9:AI:66:VAL:O	9:AI:66:VAL:HG13	2.06	0.55
17:AQ:58:VAL:HG22	17:AQ:60:ILE:HD13	1.89	0.55
1:BA:1103:C:C4	1:BA:1104:G:N7	2.75	0.55
1:BA:1255:G:N1	1:BA:1279:G:C8	2.75	0.55
1:BA:29:U:O2'	1:BA:30:U:H5'	2.06	0.55
1:BA:501:C:H2'	1:BA:502:A:C8	2.41	0.55
1:BA:690:G:H2'	1:BA:691:G:O4'	2.07	0.55
1:BA:764:C:H2'	1:BA:765:G:H8	1.72	0.55
3:BC:176:THR:HG22	3:BC:178:ARG:HG3	1.89	0.55
3:BC:178:ARG:O	3:BC:205:GLU:O	2.25	0.55
4:BD:25:ARG:HH11	4:BD:30:LYS:HE3	1.72	0.55
7:BG:87:PRO:HB3	7:BG:144:ALA:CB	2.37	0.55
8:BH:100:ILE:HG22	8:BH:112:ASP:OD1	2.07	0.55
9:BI:90:ASP:OD2	9:BI:93:LEU:HG	2.07	0.55
14:BN:10:VAL:O	14:BN:11:LYS:C	2.45	0.55
25:CA:1452:G:O2'	25:CA:1453:A:OP1	2.25	0.55
25:CA:1626:A:H8	25:CA:1626:A:OP2	1.90	0.55
25:CA:2139:U:H2'	25:CA:2140:G:H8	1.72	0.55
25:CA:2313:C:C6	25:CA:2313:C:H3'	2.42	0.55
25:CA:543:G:H1'	25:CA:551:G:N2	2.21	0.55
27:CC:24:HIS:CD2	27:CC:79:ARG:CZ	2.90	0.55
30:CF:48:LEU:O	30:CF:51:ASN:N	2.39	0.55
30:CF:62:GLN:HE22	30:CF:94:ARG:HD3	1.72	0.55
31:CG:26:LYS:HB3	31:CG:31:GLU:HG3	1.88	0.55
32:CH:9:VAL:O	32:CH:10:ALA:O	2.25	0.55
38:CN:2:ARG:C	38:CN:2:ARG:CD	2.75	0.55
52:D1:42:VAL:CG1	52:D1:44:GLN:HB2	2.36	0.55
25:DA:1414:C:C2	25:DA:1415:U:H5	2.25	0.55
25:DA:1973:G:C2'	25:DA:1974:C:H5'	2.37	0.55
25:DA:2007:U:H2'	25:DA:2008:C:O5'	2.07	0.55
25:DA:2138:G:C5	25:DA:2154:A:C2	2.95	0.55
25:DA:2188:U:H2'	25:DA:2189:U:C1'	2.37	0.55
25:DA:2585:U:O2'	25:DA:2586:U:O5'	2.24	0.55
25:DA:2722:G:H2'	25:DA:2723:C:C6	2.42	0.55
25:DA:2784:U:O2'	25:DA:2785:C:H5'	2.07	0.55
25:DA:404:A:H1'	25:DA:405:U:P	2.47	0.55
25:DA:415:A:C5	25:DA:416:U:C5	2.95	0.55
56:DB:15:A:C5	56:DB:109:A:C2	2.95	0.55
27:DC:32:LEU:O	27:DC:63:ILE:CD1	2.55	0.55
31:DG:10:VAL:HG23	31:DG:14:VAL:CG1	2.37	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DL:136:GLU:HA	36:DL:140:GLY:HA3	1.89	0.55
37:DM:36:VAL:O	37:DM:98:PRO:HB3	2.07	0.55
40:DP:58:PHE:CD2	40:DP:58:PHE:N	2.75	0.55
45:DU:8:ASP:HB3	45:DU:24:VAL:HG23	1.88	0.55
32:DH:27:ARG:HE	48:DX:59:ASP:HA	1.72	0.55
49:DY:31:GLN:HG2	49:DY:37:LEU:HB2	1.88	0.55
1:AA:1205:U:H2'	1:AA:1205:U:O2	2.07	0.54
1:AA:160:A:H1'	1:AA:344:A:C5	2.42	0.54
1:AA:198:G:O2'	1:AA:199:A:H5'	2.06	0.54
1:AA:375:U:C4	1:AA:376:G:N7	2.75	0.54
1:AA:429:U:O2	1:AA:430:A:H5''	2.07	0.54
1:AA:987:G:O2'	1:AA:988:G:H5'	2.07	0.54
2:AB:103:TRP:CZ2	2:AB:153:MET:HG2	2.42	0.54
3:AC:21:TRP:CD1	3:AC:58:ARG:HD3	2.42	0.54
4:AD:61:ARG:HG3	4:AD:71:PHE:CD2	2.42	0.54
5:AE:80:LEU:HA	5:AE:146:MET:HE1	1.88	0.54
8:AH:124:ILE:O	8:AH:124:ILE:CG1	2.55	0.54
8:AH:62:LEU:HD22	8:AH:62:LEU:H	1.72	0.54
8:AH:93:LYS:HD3	8:AH:96:ALA:O	2.06	0.54
10:AJ:7:ARG:CB	10:AJ:75:ASP:OD1	2.54	0.54
1:AA:1308:U:OP2	13:AM:97:ARG:HG2	2.07	0.54
22:AV:60:U:H5''	22:AV:61:C:C5	2.41	0.54
1:BA:1269:A:C8	1:BA:1270:G:C1'	2.90	0.54
1:BA:1323:G:O2'	1:BA:1324:A:H5'	2.07	0.54
1:BA:1364:U:C2'	1:BA:1364:U:O2	2.54	0.54
1:BA:1458:G:OP1	20:BT:29:THR:HG21	2.07	0.54
1:BA:462:G:C6	1:BA:463:U:C5	2.95	0.54
1:BA:958:A:C6	1:BA:959:A:N1	2.75	0.54
7:BG:136:LYS:O	7:BG:139:ASP:HB2	2.07	0.54
11:BK:15:VAL:O	11:BK:16:SER:CB	2.55	0.54
11:BK:29:THR:HG21	11:BK:91:GLY:HA3	1.89	0.54
13:BM:77:LYS:HA	13:BM:80:MET:CE	2.36	0.54
17:BQ:11:VAL:O	17:BQ:12:VAL:CB	2.55	0.54
54:C3:15:LYS:HG3	54:C3:16:THR:N	2.21	0.54
25:CA:1096:A:H2'	25:CA:1097:U:O4'	2.07	0.54
25:CA:1416:G:O2'	25:CA:1417:C:C6	2.59	0.54
25:CA:1480:C:H2'	25:CA:1481:U:O4'	2.08	0.54
25:CA:1838:C:C2	25:CA:1898:U:H5	2.25	0.54
28:CD:26:VAL:CG1	28:CD:186:LEU:HD13	2.36	0.54
30:CF:96:TRP:O	30:CF:99:PHE:N	2.40	0.54
31:CG:10:VAL:O	31:CG:47:ASN:ND2	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:46:PHE:C	32:CH:46:PHE:CD2	2.80	0.54
25:CA:587:C:O2	36:CL:33:ARG:NH2	2.40	0.54
37:CM:54:THR:O	37:CM:55:ARG:C	2.46	0.54
44:CT:35:ALA:O	44:CT:38:ALA:CB	2.55	0.54
49:CY:18:LEU:CD2	49:CY:22:LEU:CD2	2.85	0.54
50:CZ:9:THR:HG22	50:CZ:10:ARG:HG3	1.88	0.54
25:DA:1145:C:H2'	25:DA:1146:C:H6	1.72	0.54
25:DA:1227:G:C2'	25:DA:1228:G:H5'	2.37	0.54
25:DA:1475:G:HO2'	25:DA:1476:U:P	2.30	0.54
25:DA:1498:C:H2'	25:DA:1499:C:C6	2.42	0.54
25:DA:157:C:C5	25:DA:158:U:C5	2.95	0.54
25:DA:1734:G:H2'	25:DA:1735:A:H8	1.71	0.54
25:DA:2111:U:H5'	25:DA:2112:G:OP2	2.07	0.54
25:DA:2137:U:O4	25:DA:2154:A:N1	2.40	0.54
25:DA:2683:C:H2'	25:DA:2684:U:H6	1.71	0.54
25:DA:2729:G:O2'	25:DA:2730:C:H5'	2.07	0.54
25:DA:2834:G:H2'	25:DA:2879:A:N6	2.22	0.54
25:DA:41:C:H2'	25:DA:42:A:O5'	2.08	0.54
56:DB:43:C:H1'	30:DF:89:THR:HG21	1.88	0.54
33:DI:98:GLY:O	33:DI:137:LEU:HA	2.07	0.54
34:DJ:69:ARG:O	34:DJ:89:PHE:HB3	2.07	0.54
36:DL:93:ASN:C	36:DL:95:LEU:H	2.10	0.54
25:DA:2002:G:OP1	38:DN:17:ARG:NH1	2.40	0.54
38:DN:33:ILE:CG2	38:DN:33:ILE:O	2.54	0.54
40:DP:113:LEU:O	40:DP:113:LEU:CG	2.55	0.54
37:DM:136:MET:HE1	46:DV:57:TYR:CE2	2.42	0.54
1:AA:1038:C:H2'	1:AA:1039:G:H5'	1.89	0.54
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.42	0.54
1:AA:20:U:C2'	1:AA:21:G:H5'	2.38	0.54
1:AA:417:G:C6	1:AA:418:C:C4	2.96	0.54
1:AA:93:U:H2'	1:AA:94:G:C5'	2.37	0.54
2:AB:110:ILE:HD11	2:AB:147:LEU:CD2	2.37	0.54
2:AB:93:HIS:ND1	2:AB:145:ASN:HB2	2.22	0.54
3:AC:15:LYS:HG3	3:AC:16:PRO:CD	2.37	0.54
3:AC:63:ILE:HG22	3:AC:96:VAL:CG2	2.37	0.54
4:AD:169:TRP:CD1	4:AD:185:PRO:HG3	2.41	0.54
4:AD:8:LEU:CD2	4:AD:21:LYS:HB2	2.36	0.54
4:AD:94:GLU:HG2	4:AD:185:PRO:HG2	1.89	0.54
5:AE:113:VAL:HG22	5:AE:114:LEU:N	2.22	0.54
13:AM:28:ARG:NH1	13:AM:62:PHE:HB3	2.22	0.54
14:AN:3:GLN:OE1	14:AN:6:LYS:HE3	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:67:ILE:HG13	16:AP:71:VAL:CG1	2.37	0.54
18:AR:50:TYR:O	18:AR:54:LEU:HB2	2.05	0.54
20:AT:82:ILE:HG13	20:AT:83:ASN:H	1.73	0.54
11:AK:111:ASP:O	21:AU:3:ILE:HG22	2.07	0.54
22:AV:24:G:H2'	22:AV:25:C:O5'	2.06	0.54
22:AV:18:G:H1	22:AV:55:U:H1'	1.73	0.54
1:BA:954:G:C2	1:BA:1228:C:N3	2.75	0.54
1:BA:1386:G:N2	1:BA:1387:G:C4	2.75	0.54
1:BA:1489:G:C4	1:BA:1490:U:C5	2.95	0.54
1:BA:376:G:H5''	16:BP:5:ARG:HB2	1.89	0.54
1:BA:403:C:H5'	4:BD:131:ILE:HG23	1.88	0.54
1:BA:471:U:C2'	1:BA:472:U:H5'	2.37	0.54
1:BA:583:A:H2'	1:BA:584:G:O4'	2.07	0.54
1:BA:594:U:H2'	1:BA:595:A:C8	2.42	0.54
3:BC:119:ILE:HD11	3:BC:136:ALA:CB	2.38	0.54
1:BA:824:G:H1'	8:BH:1:SER:N	2.22	0.54
1:BA:1060:U:H5''	10:BJ:53:ILE:HG12	1.88	0.54
11:BK:13:LYS:HD2	11:BK:13:LYS:C	2.27	0.54
17:BQ:31:PRO:HB2	17:BQ:32:ILE:HD12	1.88	0.54
25:CA:1291:C:C2'	25:CA:1292:G:H5'	2.36	0.54
25:CA:1434:A:O2'	25:CA:1435:G:C8	2.56	0.54
25:CA:1538:G:OP2	25:CA:1538:G:H8	1.88	0.54
25:CA:1669:A:H5''	25:CA:1670:C:OP2	2.08	0.54
25:CA:368:A:N7	25:CA:369:U:C5	2.75	0.54
25:CA:581:C:OP1	41:CQ:32:ARG:HG3	2.07	0.54
27:CC:196:ASN:C	27:CC:196:ASN:OD1	2.45	0.54
25:CA:2571:U:O2'	28:CD:151:THR:CG2	2.55	0.54
32:CH:120:GLY:O	32:CH:121:VAL:C	2.46	0.54
25:DA:1474:U:H2'	25:DA:1475:G:C5'	2.37	0.54
25:DA:1588:G:H2'	25:DA:1589:U:C6	2.42	0.54
25:DA:1735:A:H2'	25:DA:1736:U:O4'	2.07	0.54
25:DA:2158:A:H4'	25:DA:2159:G:OP1	2.01	0.54
25:DA:2311:A:O2'	25:DA:2312:U:P	2.65	0.54
25:DA:2685:G:H2'	25:DA:2686:G:H8	1.73	0.54
25:DA:295:G:C5	25:DA:344:A:C2	2.94	0.54
31:DG:171:LYS:HG3	31:DG:172:GLU:N	2.22	0.54
32:DH:4:ILE:HG22	32:DH:5:LEU:N	2.22	0.54
32:DH:62:LEU:HB2	32:DH:135:HIS:CE1	2.43	0.54
35:DK:120:PRO:HG2	40:DP:65:ASN:ND2	2.22	0.54
35:DK:47:ILE:HB	35:DK:48:PRO:CD	2.37	0.54
37:DM:107:GLY:C	37:DM:108:VAL:HG22	2.28	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:118:LYS:HA	37:DM:118:LYS:HE2	1.89	0.54
25:DA:956:G:OP2	37:DM:86:LYS:NZ	2.40	0.54
37:DM:7:THR:HG21	37:DM:92:TRP:HH2	1.72	0.54
42:DR:102:SER:O	42:DR:103:ALA:O	2.25	0.54
44:DT:29:THR:OG1	44:DT:86:THR:CG2	2.55	0.54
48:DX:32:LEU:HD23	48:DX:49:ARG:NE	2.22	0.54
1:AA:1160:G:O2'	1:AA:1161:C:O5'	2.23	0.54
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.49	0.54
1:AA:1411:C:O2'	1:AA:1412:C:H5'	2.08	0.54
1:AA:346:G:H8	40:CP:36:LYS:HE2	1.71	0.54
2:AB:132:GLU:O	2:AB:136:ARG:HB2	2.08	0.54
2:AB:159:ALA:HA	2:AB:181:PRO:HD2	1.89	0.54
3:AC:155:ARG:HD3	3:AC:192:TYR:O	2.06	0.54
3:AC:59:PRO:O	3:AC:60:ALA:HB3	2.06	0.54
4:AD:29:THR:C	4:AD:30:LYS:HD3	2.27	0.54
5:AE:17:VAL:HA	5:AE:33:THR:O	2.07	0.54
7:AG:91:ARG:HE	7:AG:93:VAL:CG2	2.21	0.54
8:AH:58:LEU:HD11	8:AH:60:LEU:HD21	1.88	0.54
9:AI:33:SER:HB3	9:AI:36:GLN:CG	2.37	0.54
10:AJ:27:GLU:O	10:AJ:30:LYS:HG2	2.07	0.54
11:AK:52:ARG:N	11:AK:55:ARG:HB2	2.22	0.54
15:AO:7:THR:O	15:AO:11:VAL:HG23	2.07	0.54
16:AP:42:ILE:O	16:AP:42:ILE:HG22	2.08	0.54
1:BA:1258:G:O2'	1:BA:1259:C:H5'	2.08	0.54
1:BA:71:A:H2'	1:BA:72:A:O5'	2.06	0.54
1:BA:791:G:C6	1:BA:792:A:N7	2.75	0.54
2:BB:220:VAL:O	2:BB:222:GLU:N	2.39	0.54
3:BC:152:VAL:O	3:BC:164:THR:O	2.25	0.54
3:BC:18:ASN:OD1	3:BC:53:ARG:NE	2.41	0.54
1:BA:8:A:N6	4:BD:205:LYS:HB3	2.21	0.54
10:BJ:27:GLU:HA	10:BJ:30:LYS:HG2	1.89	0.54
14:BN:46:LEU:O	14:BN:49:GLN:HB2	2.07	0.54
16:BP:46:LYS:HD3	16:BP:48:GLU:H	1.72	0.54
18:BR:44:THR:O	18:BR:46:THR:HG22	2.07	0.54
22:BV:36:A:C2	23:BX:17:U:C2	2.95	0.54
52:C1:31:GLU:O	52:C1:32:LYS:C	2.45	0.54
25:CA:1079:C:H2'	25:CA:1080:A:H8	1.73	0.54
25:CA:1420:A:HO2'	25:CA:1421:G:C5'	2.19	0.54
25:CA:158:U:O2	25:CA:158:U:H2'	2.07	0.54
25:CA:2086:U:H2'	25:CA:2087:G:C8	2.42	0.54
25:CA:449:A:H2'	25:CA:450:G:H5'	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:877:A:C6	25:CA:899:A:C6	2.96	0.54
27:CC:149:LYS:HD3	27:CC:152:GLN:OE1	2.08	0.54
31:CG:41:GLU:HB2	31:CG:54:ARG:NH2	2.22	0.54
33:CI:17:ALA:HA	33:CI:41:PHE:CZ	2.43	0.54
33:CI:73:PRO:HB2	33:CI:77:VAL:HG21	1.89	0.54
37:CM:12:MET:HE3	37:CM:71:LYS:HA	1.89	0.54
38:CN:41:ALA:HB1	38:CN:97:ILE:HD13	1.89	0.54
41:CQ:9:ALA:O	41:CQ:10:ARG:C	2.45	0.54
43:CS:57:ASN:O	43:CS:61:ASN:HB2	2.07	0.54
25:DA:107:G:O2'	25:DA:108:G:H5'	2.07	0.54
25:DA:1203:U:O4	25:DA:1204:A:C6	2.60	0.54
25:DA:1313:U:H2'	25:DA:1610:A:C2	2.42	0.54
25:DA:1469:A:N3	25:DA:1469:A:H2'	2.21	0.54
25:DA:1502:A:C2	25:DA:1503:A:C4	2.95	0.54
25:DA:1578:U:H2'	25:DA:1579:A:O5'	2.07	0.54
25:DA:740:C:H5'	25:DA:1784:A:C3'	2.37	0.54
25:DA:752:A:H62	25:DA:2609:U:H3	1.55	0.54
27:DC:51:ARG:NH1	27:DC:246:PRO:HG3	2.22	0.54
28:DD:142:VAL:HG23	28:DD:144:GLY:H	1.72	0.54
29:DE:131:THR:O	29:DE:134:LEU:N	2.40	0.54
29:DE:148:ILE:CD1	29:DE:187:VAL:HG11	2.36	0.54
36:DL:128:THR:OG1	36:DL:131:ALA:HB2	2.08	0.54
39:DO:40:ILE:HG22	39:DO:41:ALA:N	2.23	0.54
42:DR:86:GLN:O	42:DR:86:GLN:HG3	2.07	0.54
44:DT:30:ILE:HD11	44:DT:32:LEU:HD23	1.88	0.54
49:DY:11:VAL:HG13	49:DY:15:ASN:OD1	2.07	0.54
1:AA:109:A:C6	1:AA:326:G:C6	2.95	0.54
1:AA:1234:C:C2'	1:AA:1235:U:H5'	2.38	0.54
1:AA:1271:A:OP1	1:AA:1314:C:H4'	2.08	0.54
1:AA:1314:C:OP2	19:AS:5:LYS:HD3	2.08	0.54
1:AA:240:G:C4'	1:AA:240:G:OP1	2.56	0.54
1:AA:955:U:C5	1:AA:956:U:C5	2.95	0.54
2:AB:137:THR:HA	2:AB:140:LEU:HB2	1.88	0.54
8:AH:82:LEU:HD22	8:AH:82:LEU:C	2.27	0.54
9:AI:20:ILE:HD11	9:AI:85:ALA:HB3	1.88	0.54
9:AI:46:VAL:CG2	9:AI:75:ALA:HB1	2.38	0.54
10:AJ:40:ILE:HG21	10:AJ:73:LEU:HD12	1.89	0.54
11:AK:114:PRO:O	11:AK:115:ILE:HD13	2.07	0.54
13:AM:80:MET:HG2	13:AM:91:ARG:NH2	2.22	0.54
18:AR:32:ILE:HA	18:AR:39:VAL:HG23	1.89	0.54
1:BA:1022:A:C5	1:BA:1023:U:C5	2.96	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1053:G:N2	1:BA:1056:U:C5	2.75	0.54
1:BA:1179:A:H4'	9:BI:104:THR:HA	1.90	0.54
1:BA:1251:A:O2'	1:BA:1252:A:H5'	2.06	0.54
1:BA:157:U:O2'	1:BA:158:G:H5'	2.08	0.54
1:BA:417:G:C6	1:BA:418:C:C4	2.95	0.54
1:BA:73:C:O2'	1:BA:74:A:O5'	2.25	0.54
1:BA:747:A:N6	1:BA:748:G:C6	2.76	0.54
1:BA:787:A:N1	1:BA:795:C:N4	2.54	0.54
2:BB:111:LYS:HD3	2:BB:111:LYS:C	2.28	0.54
5:BE:80:LEU:HD13	5:BE:80:LEU:N	2.22	0.54
1:BA:1291:U:H4'	9:BI:41:GLU:OE2	2.08	0.54
11:BK:96:ILE:HD12	11:BK:96:ILE:C	2.27	0.54
13:BM:70:ARG:O	13:BM:74:MET:HB2	2.08	0.54
16:BP:50:THR:HG22	16:BP:50:THR:O	2.06	0.54
19:BS:55:GLN:CD	19:BS:56:HIS:N	2.60	0.54
19:BS:62:THR:HB	19:BS:65:MET:CG	2.37	0.54
20:BT:66:ILE:HG23	20:BT:67:HIS:H	1.72	0.54
20:BT:79:THR:O	20:BT:80:ALA:C	2.44	0.54
21:BU:19:LYS:C	21:BU:21:SER:H	2.10	0.54
51:C0:54:ILE:CG2	51:C0:55:ALA:N	2.58	0.54
25:CA:1051:G:H5'	25:CA:1052:C:OP2	2.07	0.54
25:CA:1212:G:H1'	25:CA:1236:G:N2	2.23	0.54
25:CA:1486:U:O2	25:CA:1504:A:C2	2.60	0.54
25:CA:1507:C:N4	25:CA:1508:A:C2	2.75	0.54
25:CA:1588:G:C5	25:CA:1589:U:C5	2.95	0.54
25:CA:1936:A:H3'	25:CA:1937:A:H5'	1.89	0.54
25:CA:2534:A:H2'	25:CA:2535:G:O5'	2.07	0.54
25:CA:547:A:C8	25:CA:548:G:N3	2.75	0.54
25:CA:587:C:O2'	36:CL:19:LEU:HD11	2.07	0.54
27:CC:161:VAL:HG13	27:CC:173:LEU:HB3	1.88	0.54
28:CD:86:GLU:OE1	28:CD:86:GLU:CA	2.54	0.54
29:CE:19:PHE:CE1	29:CE:109:LEU:HD23	2.42	0.54
44:CT:7:LEU:HD22	44:CT:46:ALA:HA	1.88	0.54
46:CV:6:ALA:HB1	46:CV:40:ILE:CG2	2.38	0.54
25:DA:1433:A:H2'	25:DA:1434:A:C1'	2.37	0.54
25:DA:1468:U:C2	25:DA:1525:A:C2	2.95	0.54
25:DA:1703:G:H2'	25:DA:1704:C:C6	2.43	0.54
25:DA:2024:G:H2'	25:DA:2025:C:O4'	2.08	0.54
25:DA:2053:G:N2	25:DA:2054:A:H1'	2.22	0.54
25:DA:2144:G:N3	25:DA:2146:C:O2	2.41	0.54
25:DA:2177:C:N4	25:DA:2178:C:H41	2.05	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2221:G:C4	25:DA:2222:C:C5	2.96	0.54
25:DA:2364:C:C2'	25:DA:2365:G:H5'	2.38	0.54
25:DA:2660:A:C2	25:DA:2661:G:C4	2.96	0.54
25:DA:2808:G:N1	25:DA:2891:U:C5	2.75	0.54
28:DD:101:PHE:HD1	28:DD:104:VAL:HG11	1.73	0.54
29:DE:143:LEU:HB3	29:DE:146:VAL:CG1	2.37	0.54
29:DE:187:VAL:O	29:DE:187:VAL:CG1	2.55	0.54
31:DG:128:THR:O	31:DG:129:GLU:HG2	2.07	0.54
35:DK:114:LYS:HD2	35:DK:118:LEU:HD21	1.89	0.54
35:DK:4:GLU:O	35:DK:5:GLN:CB	2.55	0.54
39:DO:40:ILE:HG21	39:DO:44:GLY:HA2	1.90	0.54
1:AA:1161:C:O2	1:AA:1176:A:C2	2.60	0.54
1:AA:1215:G:H2'	1:AA:1216:A:H5'	1.90	0.54
1:AA:1245:C:H2'	1:AA:1246:A:O4'	2.08	0.54
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.43	0.54
1:AA:257:G:N2	1:AA:258:G:C4	2.76	0.54
1:AA:293:G:C5	1:AA:294:U:C5	2.95	0.54
1:AA:303:A:H2'	1:AA:304:U:O4'	2.08	0.54
1:AA:376:G:H2'	1:AA:377:G:C8	2.41	0.54
1:AA:85:U:H4'	1:AA:86:G:OP1	2.06	0.54
1:AA:8:A:H5'	5:AE:124:ALA:O	2.07	0.54
5:AE:20:VAL:O	5:AE:20:VAL:CG2	2.55	0.54
6:AF:43:GLY:HA2	6:AF:58:HIS:NE2	2.22	0.54
6:AF:3:HIS:HB2	6:AF:92:THR:HG23	1.89	0.54
8:AH:100:ILE:HD11	8:AH:128:VAL:HG23	1.90	0.54
8:AH:29:SER:O	8:AH:30:LYS:C	2.46	0.54
1:BA:1070:U:H2'	1:BA:1071:C:H6	1.72	0.54
1:BA:949:A:C4	1:BA:1233:G:N2	2.75	0.54
1:BA:190:A:H2'	1:BA:191:G:O5'	2.07	0.54
1:BA:404:G:O2'	1:BA:405:U:H5'	2.08	0.54
1:BA:467:U:H3'	1:BA:468:A:C5'	2.38	0.54
1:BA:564:C:C4	1:BA:565:U:C4	2.96	0.54
1:BA:605:U:O2'	1:BA:606:G:H5'	2.08	0.54
1:BA:628:G:H2'	1:BA:629:A:H8	1.70	0.54
1:BA:775:G:H2'	1:BA:776:G:O4'	2.08	0.54
1:BA:846:G:C2'	1:BA:847:G:H5'	2.38	0.54
1:BA:905:U:H2'	1:BA:906:A:H5'	1.88	0.54
2:BB:72:LYS:O	2:BB:74:ALA:N	2.40	0.54
4:BD:25:ARG:O	4:BD:26:ALA:CB	2.55	0.54
10:BJ:26:VAL:HG21	10:BJ:39:PRO:HD3	1.90	0.54
12:BL:65:TYR:O	12:BL:96:THR:OG1	2.24	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:94:LEU:HB3	13:BM:95:PRO:HD2	1.88	0.54
15:BO:75:ALA:O	15:BO:76:ARG:C	2.44	0.54
17:BQ:12:VAL:HG11	17:BQ:21:VAL:HG22	1.89	0.54
51:C0:47:TYR:CE2	51:C0:52:LYS:HB2	2.42	0.54
25:CA:1061:U:HO2'	25:CA:1062:G:P	2.28	0.54
25:CA:1277:G:H5'	38:CN:20:MET:CE	2.38	0.54
25:CA:1379:U:OP1	25:CA:1379:U:C6	2.61	0.54
25:CA:2006:C:O5'	25:CA:2006:C:H6	1.91	0.54
25:CA:2141:G:C2	25:CA:2142:A:H1'	2.43	0.54
25:CA:2331:G:O4'	47:CW:38:GLY:HA3	2.07	0.54
25:CA:2492:U:H2'	25:CA:2493:U:H5'	1.88	0.54
25:CA:2585:U:HO2'	25:CA:2586:U:P	2.30	0.54
25:CA:1783:A:H5'	25:CA:2608:G:H4'	1.89	0.54
25:CA:2870:C:C5	25:CA:2871:U:C5	2.96	0.54
25:CA:998:C:C2'	25:CA:999:U:O5'	2.56	0.54
34:CJ:97:PRO:O	34:CJ:98:GLU:C	2.46	0.54
40:CP:30:TRP:CZ3	40:CP:39:LEU:HD13	2.43	0.54
25:DA:1061:U:O2	25:DA:1061:U:H5''	2.08	0.54
25:DA:1010:A:H1'	25:DA:1153:C:H1'	1.88	0.54
25:DA:14:A:C6	25:DA:526:A:C2	2.96	0.54
25:DA:1538:G:O2'	25:DA:1539:U:H5'	2.08	0.54
25:DA:2019:A:H4'	41:DQ:33:VAL:HG21	1.90	0.54
25:DA:2072:C:H5''	25:DA:2072:C:C6	2.40	0.54
25:DA:230:G:N1	25:DA:231:A:C5	2.76	0.54
25:DA:2311:A:O2'	25:DA:2312:U:O4'	2.25	0.54
25:DA:2769:U:H2'	25:DA:2769:U:O2	2.07	0.54
25:DA:2692:G:H1'	25:DA:2847:U:H1'	1.89	0.54
25:DA:318:C:O2'	25:DA:319:G:H5'	2.07	0.54
25:DA:404:A:C4'	25:DA:405:U:OP2	2.54	0.54
25:DA:832:U:H2'	25:DA:833:A:H8	1.73	0.54
25:DA:995:C:OP2	41:DQ:52:ARG:NH1	2.40	0.54
29:DE:189:THR:O	29:DE:192:ALA:HB3	2.07	0.54
32:DH:4:ILE:CG2	32:DH:17:ASP:N	2.70	0.54
36:DL:110:VAL:HB	36:DL:127:VAL:HG13	1.89	0.54
36:DL:89:VAL:HG13	36:DL:89:VAL:O	2.08	0.54
49:DY:8:GLU:CA	49:DY:12:GLU:HG3	2.38	0.54
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.41	0.54
1:AA:1299:A:C6	1:AA:1301:U:O2	2.60	0.54
1:AA:428:G:H4'	1:AA:429:U:OP1	2.07	0.54
1:AA:683:G:O2'	1:AA:684:U:H5'	2.07	0.54
1:AA:73:C:O2'	1:AA:74:A:H5''	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:827:U:H5''	1:AA:828:U:OP2	2.08	0.54
2:AB:205:ALA:O	2:AB:207:ARG:N	2.41	0.54
2:AB:34:ARG:NE	2:AB:34:ARG:CA	2.71	0.54
2:AB:53:LEU:CD1	2:AB:56:LEU:HD12	2.38	0.54
2:AB:54:ALA:O	2:AB:58:LYS:HB2	2.07	0.54
2:AB:67:LEU:HB3	2:AB:160:LEU:HD23	1.90	0.54
7:AG:70:PRO:HG3	7:AG:102:TRP:CH2	2.43	0.54
8:AH:74:ILE:HD13	8:AH:128:VAL:HG22	1.86	0.54
14:AN:30:ILE:HG23	14:AN:45:VAL:HB	1.88	0.54
14:AN:41:ARG:HG3	14:AN:42:TRP:CE3	2.42	0.54
15:AO:23:SER:HB3	15:AO:26:VAL:CG2	2.37	0.54
17:AQ:16:MET:HG2	17:AQ:19:SER:HB3	1.88	0.54
11:AK:110:THR:HG23	21:AU:4:LYS:CB	2.38	0.54
23:AX:10:G:C5	23:AX:11:U:C4	2.96	0.54
1:BA:1244:G:N1	1:BA:1294:G:N1	2.56	0.54
1:BA:194:C:H3'	60:BA:1716:HOH:O	2.08	0.54
1:BA:660:C:C2	1:BA:661:G:C8	2.95	0.54
1:BA:929:G:C6	1:BA:930:C:C4	2.95	0.54
1:BA:977:A:N3	1:BA:977:A:C2'	2.71	0.54
3:BC:84:GLU:HG3	3:BC:85:LYS:H	1.72	0.54
4:BD:172:VAL:O	4:BD:178:GLU:O	2.26	0.54
4:BD:32:LYS:NZ	4:BD:32:LYS:HB2	2.22	0.54
4:BD:32:LYS:HG3	4:BD:32:LYS:O	2.07	0.54
5:BE:148:SER:HB2	5:BE:151:MET:HG2	1.89	0.54
9:BI:43:ALA:HB1	9:BI:46:VAL:CG2	2.36	0.54
10:BJ:36:VAL:HG22	10:BJ:76:ILE:HG12	1.90	0.54
10:BJ:59:LYS:O	10:BJ:62:ARG:HD2	2.08	0.54
11:BK:107:THR:HG22	11:BK:108:ASN:ND2	2.22	0.54
11:BK:22:ILE:HD11	11:BK:85:VAL:HG13	1.89	0.54
12:BL:86:VAL:HG11	12:BL:89:LEU:CD2	2.37	0.54
13:BM:22:TYR:HB3	13:BM:65:GLU:HA	1.90	0.54
20:BT:68:LYS:HB3	20:BT:69:ASN:OD1	2.07	0.54
25:CA:1851:U:H2'	25:CA:1852:U:O5'	2.07	0.54
25:CA:1908:C:C5'	25:CA:1909:C:OP2	2.55	0.54
25:CA:1926:U:O2	25:CA:1926:U:H2'	2.06	0.54
25:CA:2127:G:N2	25:CA:2161:C:O2	2.40	0.54
25:CA:2170:A:C8	25:CA:2170:A:OP2	2.61	0.54
25:CA:2318:G:C6	25:CA:2319:G:C6	2.95	0.54
25:CA:2346:A:C3'	25:CA:2347:C:C5'	2.81	0.54
25:CA:2602:A:C4'	25:CA:2603:G:OP2	2.53	0.54
25:CA:301:G:C4	25:CA:302:C:C5	2.96	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:90:U:H2'	25:CA:91:A:C8	2.41	0.54
25:CA:981:A:P	60:CA:3598:HOH:O	2.58	0.54
27:CC:265:PHE:CD1	27:CC:265:PHE:N	2.75	0.54
27:CC:270:ARG:HH11	27:CC:270:ARG:HG2	1.71	0.54
32:CH:62:LEU:C	32:CH:62:LEU:HD12	2.28	0.54
33:CI:57:VAL:CG1	33:CI:58:ILE:N	2.71	0.54
33:CI:59:THR:HG22	33:CI:61:TYR:CZ	2.43	0.54
34:CJ:65:THR:O	34:CJ:68:LYS:HG3	2.07	0.54
39:CO:24:THR:HG22	39:CO:42:PRO:HG3	1.89	0.54
44:CT:67:VAL:HG22	44:CT:76:ARG:HG3	1.90	0.54
25:DA:1090:A:C2	25:DA:1102:C:O2	2.60	0.54
25:DA:1324:G:C2	25:DA:1328:A:N1	2.76	0.54
25:DA:1607:C:H4'	25:DA:1608:A:O5'	2.08	0.54
25:DA:528:A:C2	25:DA:2043:C:H5'	2.42	0.54
25:DA:2104:C:C2	25:DA:2186:G:N2	2.75	0.54
25:DA:2196:C:O2'	25:DA:2197:U:H5'	2.08	0.54
25:DA:2291:U:H2'	25:DA:2292:U:C5	2.43	0.54
25:DA:9:G:C6	25:DA:2629:U:C5	2.96	0.54
25:DA:298:G:O5'	25:DA:298:G:H8	1.91	0.54
25:DA:623:C:H2'	25:DA:624:C:C6	2.42	0.54
25:DA:82:U:H2'	25:DA:83:A:C8	2.42	0.54
27:DC:251:THR:CG2	27:DC:252:LYS:N	2.69	0.54
31:DG:83:THR:OG1	31:DG:133:LYS:HG2	2.08	0.54
39:DO:31:THR:HG23	39:DO:32:PRO:CD	2.36	0.54
43:DS:9:HIS:CD2	43:DS:9:HIS:N	2.76	0.54
49:DY:10:SER:C	49:DY:14:LEU:HD12	2.28	0.54
49:DY:32:ALA:O	49:DY:35:GLY:HA2	2.07	0.54
49:DY:35:GLY:C	49:DY:36:GLN:CG	2.76	0.54
1:AA:1244:G:O2'	1:AA:1245:C:H5'	2.07	0.54
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.08	0.54
1:AA:128:G:O2'	1:AA:129:A:H5'	2.07	0.54
1:AA:209:U:H4'	1:AA:210:C:OP2	2.06	0.54
1:AA:338:A:N1	1:AA:351:G:O6	2.41	0.54
1:AA:81:A:H2'	1:AA:82:G:H5'	1.90	0.54
1:AA:832:G:H2'	1:AA:833:G:H5'	1.88	0.54
1:AA:86:G:O4'	1:AA:86:G:N3	2.40	0.54
3:AC:59:PRO:CB	10:AJ:94:ALA:HB1	2.38	0.54
4:AD:112:GLU:O	4:AD:113:ALA:C	2.44	0.54
4:AD:144:ILE:HD13	4:AD:177:MET:HB3	1.90	0.54
4:AD:57:LYS:HG2	4:AD:202:LEU:HD22	1.90	0.54
5:AE:136:VAL:O	5:AE:137:ARG:HB3	2.06	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:10:VAL:HG13	6:AF:11:HIS:N	2.23	0.54
9:AI:95:SER:CA	9:AI:98:ARG:HB2	2.35	0.54
10:AJ:18:ILE:HG12	10:AJ:72:ARG:HG3	1.90	0.54
1:BA:1237:C:H2'	1:BA:1336:C:C5	2.42	0.54
1:BA:1363:A:C5	1:BA:1365:G:C6	2.96	0.54
1:BA:1460:C:H2'	1:BA:1461:G:O5'	2.07	0.54
1:BA:175:C:C2'	1:BA:176:C:H5'	2.38	0.54
1:BA:363:A:C6	1:BA:364:A:C6	2.96	0.54
1:BA:394:G:H2'	1:BA:395:C:H6	1.72	0.54
1:BA:666:G:H5'	1:BA:726:C:H1'	1.90	0.54
3:BC:164:THR:O	3:BC:165:GLU:HB3	2.08	0.54
3:BC:133:MET:HE3	3:BC:167:TYR:HB2	1.90	0.54
4:BD:33:ILE:O	4:BD:34:GLU:CB	2.54	0.54
7:BG:115:MET:HA	7:BG:118:ARG:HD3	1.90	0.54
7:BG:135:LYS:HE2	7:BG:139:ASP:OD1	2.08	0.54
8:BH:19:ALA:C	8:BH:21:LYS:H	2.11	0.54
9:BI:97:LEU:O	9:BI:103:VAL:HG13	2.07	0.54
12:BL:73:LEU:CD1	12:BL:79:ILE:HG21	2.37	0.54
13:BM:85:TYR:C	13:BM:85:TYR:CD2	2.80	0.54
25:CA:1246:A:H2'	25:CA:1247:A:O5'	2.08	0.54
25:CA:1371:G:O2'	25:CA:1372:U:H5'	2.07	0.54
25:CA:2019:A:C2'	25:CA:2020:A:O5'	2.56	0.54
25:CA:1889:A:H1'	25:CA:2086:U:O2'	2.08	0.54
25:CA:2458:G:C2	25:CA:2490:G:N2	2.76	0.54
25:CA:277:G:H4'	25:CA:278:A:N6	2.22	0.54
26:CB:43:C:H5''	26:CB:44:G:OP2	2.07	0.54
40:CP:111:GLU:HG3	40:CP:112:ARG:N	2.23	0.54
42:CR:51:VAL:C	42:CR:52:PRO:O	2.43	0.54
25:DA:1062:G:C5	25:DA:1088:A:H2'	2.43	0.54
25:DA:120:U:O4'	25:DA:149:A:C8	2.61	0.54
25:DA:1998:A:H2'	25:DA:1999:C:H6	1.73	0.54
25:DA:2179:C:C2	25:DA:2180:U:C6	2.96	0.54
25:DA:2221:G:C5	25:DA:2222:C:C5	2.96	0.54
25:DA:2248:C:H2'	25:DA:2249:U:H5'	1.90	0.54
25:DA:2392:A:C2	25:DA:2393:U:C2	2.96	0.54
25:DA:279:A:C5	25:DA:280:U:C5	2.95	0.54
25:DA:792:A:C3'	25:DA:793:A:H5'	2.37	0.54
30:DF:103:ILE:O	30:DF:108:PRO:HD3	2.07	0.54
33:DI:27:LEU:HD12	33:DI:27:LEU:C	2.27	0.54
40:DP:74:GLN:O	40:DP:77:SER:CB	2.56	0.54
44:DT:2:ILE:HG23	44:DT:3:ARG:O	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:14:PRO:CD	49:DY:33:ALA:HB1	2.38	0.54
1:AA:1451:U:H5''	1:AA:1452:C:C5	2.42	0.54
1:AA:424:G:O2'	1:AA:425:G:H5'	2.08	0.54
1:AA:980:C:C5	1:AA:981:U:C4	2.95	0.54
3:AC:13:ILE:C	3:AC:14:VAL:HG13	2.27	0.54
4:AD:75:TYR:CG	4:AD:203:TYR:HD1	2.26	0.54
5:AE:33:THR:HB	5:AE:49:TYR:CE2	2.42	0.54
9:AI:44:ARG:N	9:AI:45:MET:SD	2.80	0.54
11:AK:15:VAL:O	11:AK:16:SER:OG	2.21	0.54
12:AL:2:THR:CG2	12:AL:4:ASN:CB	2.86	0.54
14:AN:87:ALA:HA	14:AN:90:ARG:HH12	1.72	0.54
16:AP:5:ARG:HA	16:AP:68:SER:OG	2.08	0.54
19:AS:39:ILE:CD1	19:AS:70:LEU:HD22	2.38	0.54
21:AU:3:ILE:HD13	21:AU:19:LYS:HE3	1.90	0.54
24:AY:14:MET:O	24:AY:17:CYS:HB2	2.07	0.54
1:BA:1219:A:H2'	1:BA:1220:G:H8	1.73	0.54
1:BA:146:G:C2'	1:BA:147:G:H5'	2.38	0.54
1:BA:220:G:O2'	1:BA:221:C:H5'	2.07	0.54
2:BB:207:ARG:O	2:BB:210:THR:N	2.41	0.54
2:BB:53:LEU:HA	2:BB:56:LEU:CB	2.38	0.54
4:BD:167:PRO:HG2	4:BD:170:LEU:HD11	1.90	0.54
4:BD:178:GLU:CG	4:BD:179:GLY:N	2.70	0.54
5:BE:106:ALA:HB1	5:BE:124:ALA:CB	2.38	0.54
6:BF:25:TYR:C	6:BF:27:ALA:N	2.60	0.54
10:BJ:78:GLU:O	10:BJ:78:GLU:CG	2.56	0.54
11:BK:123:PRO:O	11:BK:125:LYS:N	2.41	0.54
14:BN:26:LEU:O	14:BN:27:LYS:HB3	2.08	0.54
10:BJ:67:ILE:HG12	14:BN:96:LEU:CA	2.37	0.54
15:BO:8:ALA:O	15:BO:9:LYS:C	2.45	0.54
16:BP:74:LEU:O	16:BP:75:ILE:C	2.46	0.54
23:BX:10:G:O2'	23:BX:11:U:H5'	2.07	0.54
25:CA:1100:C:H2'	25:CA:1101:U:C6	2.43	0.54
25:CA:1645:G:H5''	25:CA:1646:C:H5'	1.90	0.54
25:CA:2145:C:H6	25:CA:2145:C:H3'	1.73	0.54
25:CA:2218:G:C6	25:CA:2219:U:C4	2.96	0.54
25:CA:2748:A:C2	25:CA:2757:A:C4	2.96	0.54
25:CA:717:C:H2'	25:CA:718:A:H5'	1.89	0.54
26:CB:33:G:H2'	26:CB:34:A:H5'	1.89	0.54
29:CE:108:ILE:HD12	29:CE:108:ILE:O	2.08	0.54
31:CG:130:ILE:HG22	31:CG:131:VAL:H	1.73	0.54
32:CH:135:HIS:HD2	32:CH:138:VAL:HG23	1.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CK:9:ASN:O	35:CK:83:ALA:HA	2.08	0.54
37:CM:55:ARG:CG	37:CM:55:ARG:HH21	2.20	0.54
53:D2:44:VAL:O	53:D2:44:VAL:HG12	2.08	0.54
25:DA:1047:G:C4'	25:DA:1048:A:H5'	2.37	0.54
25:DA:1494:A:H2'	25:DA:1495:A:C8	2.43	0.54
25:DA:1563:U:O2'	25:DA:1564:C:H5'	2.07	0.54
25:DA:2217:G:C2'	25:DA:2218:G:H5'	2.38	0.54
25:DA:2309:A:C5	25:DA:2310:C:C4	2.96	0.54
25:DA:2673:G:C2	25:DA:2674:G:C8	2.96	0.54
25:DA:1629:U:O2	25:DA:2698:U:H5''	2.08	0.54
25:DA:2730:C:O2'	25:DA:2731:G:C5'	2.55	0.54
25:DA:591:U:H1'	54:D3:1:PRO:N	2.23	0.54
25:DA:630:G:H3'	25:DA:631:A:C5'	2.37	0.54
25:DA:792:A:C4'	25:DA:793:A:H5'	2.38	0.54
56:DB:65:U:C4	56:DB:108:A:C4	2.96	0.54
27:DC:16:VAL:H	27:DC:203:VAL:HG22	1.71	0.54
33:DI:6:ALA:O	33:DI:58:ILE:HB	2.08	0.54
37:DM:41:LEU:HD21	37:DM:124:LEU:HD13	1.90	0.54
37:DM:57:VAL:O	37:DM:58:LYS:HB2	2.08	0.54
38:DN:51:LEU:CD1	38:DN:70:THR:HG22	2.38	0.54
39:DO:33:ARG:O	39:DO:34:HIS:CD2	2.61	0.54
44:DT:10:VAL:HG12	44:DT:11:LEU:HD23	1.89	0.54
48:DX:32:LEU:HD23	48:DX:49:ARG:CZ	2.36	0.54
1:AA:1323:G:C2	1:AA:1324:A:C4	2.95	0.54
1:AA:451:A:OP2	16:AP:70:ARG:NH2	2.41	0.54
1:AA:452:A:N6	1:AA:480:U:H3	2.05	0.54
4:AD:146:GLU:HA	4:AD:149:LYS:HD2	1.89	0.54
5:AE:106:ALA:O	5:AE:111:ARG:NH2	2.41	0.54
6:AF:20:GLY:O	6:AF:23:GLU:HB3	2.07	0.54
6:AF:71:ILE:HG13	6:AF:72:ASP:N	2.23	0.54
8:AH:76:ARG:NE	8:AH:78:SER:O	2.41	0.54
10:AJ:28:THR:O	10:AJ:32:THR:CG2	2.55	0.54
1:AA:1060:U:H5''	10:AJ:53:ILE:HG23	1.89	0.54
12:AL:87:LYS:O	12:AL:87:LYS:HG3	2.07	0.54
13:AM:94:LEU:HB3	13:AM:95:PRO:CD	2.38	0.54
1:BA:1002:G:C2	1:BA:1039:G:C2	2.96	0.54
1:BA:1207:G:H2'	1:BA:1208:C:O4'	2.07	0.54
1:BA:1269:A:C8	1:BA:1270:G:H1'	2.42	0.54
1:BA:1324:A:C6	1:BA:1325:C:C4	2.96	0.54
1:BA:16:A:C2	1:BA:17:U:C6	2.95	0.54
1:BA:209:U:C4'	1:BA:210:C:OP2	2.56	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:261:U:C5	20:BT:73:ARG:CZ	2.91	0.54
1:BA:270:A:C6	1:BA:271:C:C4	2.96	0.54
1:BA:49:U:O2	1:BA:362:G:H1'	2.08	0.54
1:BA:620:C:C2	4:BD:131:ILE:HG12	2.43	0.54
2:BB:96:LEU:O	2:BB:99:MET:HG2	2.07	0.54
4:BD:71:PHE:CE1	4:BD:199:ILE:HD11	2.42	0.54
7:BG:99:ALA:O	7:BG:103:ILE:HG13	2.08	0.54
9:BI:27:ILE:HG23	9:BI:62:LEU:HG	1.89	0.54
12:BL:19:ASN:ND2	12:BL:19:ASN:H	2.05	0.54
52:C1:16:THR:HG21	52:C1:41:VAL:CB	2.35	0.54
25:CA:1085:A:C5	25:CA:1086:A:N1	2.76	0.54
25:CA:2615:U:C2	51:C0:3:GLN:HA	2.43	0.54
28:CD:13:ARG:O	28:CD:14:ILE:HD13	2.08	0.54
29:CE:118:LEU:HD11	29:CE:188:MET:HG3	1.88	0.54
29:CE:118:LEU:C	29:CE:119:ILE:HD13	2.29	0.54
29:CE:128:ALA:HB1	29:CE:129:PRO:CD	2.38	0.54
31:CG:29:ASN:O	31:CG:29:ASN:CG	2.46	0.54
33:CI:57:VAL:O	33:CI:58:ILE:HD13	2.07	0.54
33:CI:32:VAL:HG21	33:CI:58:ILE:HG23	1.90	0.54
36:CL:104:GLN:OE1	36:CL:104:GLN:HA	2.08	0.54
41:CQ:88:GLU:H	42:CR:49:ILE:CD1	2.21	0.54
47:CW:37:ARG:O	47:CW:53:HIS:ND1	2.41	0.54
52:D1:46:VAL:CG1	52:D1:47:ILE:N	2.70	0.54
25:DA:1077:A:C2	25:DA:1088:A:C2	2.96	0.54
25:DA:1233:C:C2'	25:DA:1234:U:O5'	2.56	0.54
25:DA:1276:A:H5''	25:DA:1276:A:C8	2.43	0.54
25:DA:1276:A:H5''	25:DA:1276:A:H8	1.73	0.54
25:DA:1494:A:C4	25:DA:1495:A:C8	2.96	0.54
25:DA:1693:U:H4'	25:DA:1694:C:OP2	2.07	0.54
25:DA:1704:C:H2'	25:DA:1705:A:C8	2.43	0.54
25:DA:1758:U:C5	25:DA:2696:U:H5'	2.43	0.54
25:DA:1870:C:C3'	25:DA:1871:A:H5'	2.38	0.54
25:DA:197:A:N6	25:DA:2430:A:H2'	2.23	0.54
25:DA:2020:A:C2	25:DA:2022:U:O4'	2.61	0.54
25:DA:2097:A:C5	25:DA:2098:U:C5	2.95	0.54
25:DA:2233:U:H2'	25:DA:2234:G:C8	2.43	0.54
25:DA:200:U:C4	25:DA:248:G:C2	2.96	0.54
25:DA:2816:G:O3'	38:DN:99:LYS:HE2	2.08	0.54
25:DA:715:A:H8	25:DA:715:A:OP1	1.91	0.54
25:DA:845:A:H3'	25:DA:845:A:N3	2.23	0.54
25:DA:871:U:H4'	37:DM:68:PHE:CD2	2.43	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DD:101:PHE:HA	28:DD:104:VAL:CG1	2.38	0.54
29:DE:109:LEU:HD13	29:DE:180:LEU:HD13	1.89	0.54
30:DF:131:VAL:O	30:DF:131:VAL:HG23	2.08	0.54
25:DA:2531:A:H4'	31:DG:156:TYR:CD1	2.42	0.54
31:DG:37:ASN:HB3	31:DG:40:VAL:HG23	1.90	0.54
33:DI:79:LEU:HD13	33:DI:135:MET:SD	2.48	0.54
33:DI:74:PRO:O	33:DI:78:LEU:HD12	2.07	0.54
35:DK:108:ARG:O	35:DK:109:SER:HB3	2.08	0.54
36:DL:123:ARG:HG3	36:DL:143:GLU:HG3	1.90	0.54
36:DL:126:ARG:C	36:DL:127:VAL:HG23	2.28	0.54
36:DL:76:GLU:O	36:DL:76:GLU:CG	2.56	0.54
36:DL:81:ASP:O	36:DL:82:LEU:CB	2.54	0.54
38:DN:86:ARG:HD2	38:DN:117:ASP:OD2	2.07	0.54
40:DP:51:ASN:O	40:DP:52:ARG:HD3	2.08	0.54
40:DP:53:GLY:O	40:DP:56:SER:OG	2.26	0.54
41:DQ:61:ILE:HG23	41:DQ:75:TYR:CE1	2.43	0.54
49:DY:28:LEU:HD13	49:DY:46:VAL:HG21	1.89	0.54
1:AA:1007:U:H2'	1:AA:1008:U:H5'	1.89	0.54
1:AA:9:G:O2'	1:AA:10:A:H5'	2.08	0.54
1:AA:1201:A:H1'	1:AA:1202:U:OP2	2.07	0.54
1:AA:1305:G:H2'	1:AA:1331:G:N2	2.23	0.54
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.73	0.54
1:AA:374:A:O4'	1:AA:481:G:N2	2.41	0.54
1:AA:464:U:N3	1:AA:466:A:C5'	2.71	0.54
1:AA:510:A:H5''	1:AA:511:C:P	2.48	0.54
1:AA:549:C:H2'	1:AA:550:G:O5'	2.08	0.54
1:AA:791:G:C6	1:AA:792:A:N7	2.76	0.54
1:AA:850:U:H2'	1:AA:851:G:H5''	1.90	0.54
1:AA:943:U:H2'	1:AA:944:G:C5'	2.37	0.54
2:AB:130:LYS:HA	2:AB:130:LYS:HE2	1.90	0.54
3:AC:57:GLU:HG3	3:AC:64:ARG:CB	2.38	0.54
5:AE:96:GLN:HB2	5:AE:123:LEU:HD11	1.89	0.54
5:AE:71:ILE:HG21	5:AE:144:GLU:HB2	1.90	0.54
8:AH:13:ILE:HG22	8:AH:14:ARG:N	2.22	0.54
10:AJ:34:ALA:O	10:AJ:35:GLN:HB2	2.08	0.54
12:AL:2:THR:HG22	12:AL:4:ASN:HB2	1.90	0.54
17:AQ:40:THR:HG22	17:AQ:41:THR:N	2.23	0.54
19:AS:80:ARG:HE	19:AS:80:ARG:HA	1.73	0.54
24:AY:25:ILE:HG22	24:AY:26:SER:N	2.22	0.54
1:BA:1050:G:N2	1:BA:1209:C:O2	2.41	0.54
1:BA:960:U:H2'	1:BA:1225:A:H62	1.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1253:G:C2	1:BA:1285:A:N6	2.76	0.54
1:BA:1302:C:OP1	13:BM:12:LYS:HE2	2.08	0.54
1:BA:557:G:H5''	1:BA:558:G:OP2	2.08	0.54
1:BA:699:C:C2'	1:BA:700:G:H5'	2.37	0.54
1:BA:96:U:O2'	1:BA:97:G:C5'	2.56	0.54
1:BA:979:C:C6	1:BA:980:C:C5	2.96	0.54
3:BC:117:ASP:O	3:BC:120:THR:HG22	2.07	0.54
3:BC:18:ASN:HA	3:BC:55:VAL:HG13	1.89	0.54
4:BD:168:THR:CG2	4:BD:183:ARG:HH21	2.20	0.54
4:BD:187:ARG:O	4:BD:190:LEU:HD12	2.08	0.54
5:BE:149:PRO:C	5:BE:151:MET:N	2.61	0.54
5:BE:14:LEU:O	5:BE:14:LEU:HD12	2.08	0.54
6:BF:38:ARG:NH1	6:BF:61:LEU:HD21	2.23	0.54
9:BI:26:LYS:O	9:BI:62:LEU:CD2	2.56	0.54
9:BI:16:ALA:HB1	9:BI:65:THR:O	2.08	0.54
12:BL:33:CYS:CA	12:BL:54:VAL:HA	2.29	0.54
13:BM:15:VAL:O	13:BM:18:LEU:HB2	2.08	0.54
21:BU:3:ILE:HG23	21:BU:19:LYS:HE3	1.90	0.54
25:CA:1744:A:H3'	25:CA:1745:A:H8	1.72	0.54
25:CA:1867:G:O2'	25:CA:1868:C:H5'	2.07	0.54
25:CA:1838:C:N1	25:CA:1898:U:H5	2.05	0.54
25:CA:213:A:C2	25:CA:214:G:C4	2.96	0.54
25:CA:2287:A:C8	25:CA:2289:G:C8	2.96	0.54
25:CA:285:G:C6	25:CA:286:U:C4	2.96	0.54
25:CA:2870:C:C2'	25:CA:2871:U:H5'	2.38	0.54
25:CA:31:C:C2'	25:CA:32:C:H5'	2.38	0.54
25:CA:559:G:C2'	25:CA:560:C:H5'	2.38	0.54
25:CA:64:A:H2'	25:CA:65:U:C6	2.43	0.54
25:CA:864:G:O2'	25:CA:865:C:H5'	2.08	0.54
25:CA:995:C:O2'	25:CA:996:A:P	2.66	0.54
26:CB:64:G:C5	26:CB:65:U:C4	2.96	0.54
32:CH:117:LEU:HD21	32:CH:121:VAL:N	2.22	0.54
32:CH:59:ALA:HA	32:CH:62:LEU:HD23	1.89	0.54
33:CI:121:ILE:HG23	33:CI:124:MET:SD	2.48	0.54
54:D3:35:LYS:O	54:D3:40:LYS:HE2	2.08	0.54
25:DA:1096:A:C2'	25:DA:1097:U:H5''	2.38	0.54
25:DA:2642:G:N2	25:DA:2773:C:C2	2.76	0.54
25:DA:2757:A:H2'	25:DA:2757:A:N3	2.23	0.54
25:DA:45:G:C5'	25:DA:46:G:H5'	2.37	0.54
25:DA:893:C:H2'	25:DA:894:U:O4'	2.08	0.54
25:DA:954:G:C5	25:DA:955:U:C5	2.95	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:104:A:H2'	56:DB:105:G:O4'	2.08	0.54
56:DB:74:U:H2'	56:DB:75:G:O4'	2.08	0.54
27:DC:181:ARG:HG2	27:DC:181:ARG:O	2.08	0.54
27:DC:73:ILE:HG22	27:DC:74:PRO:O	2.08	0.54
25:DA:39:G:H1'	29:DE:43:THR:HG21	1.90	0.54
29:DE:83:VAL:CG1	29:DE:86:ALA:HA	2.38	0.54
30:DF:52:ALA:HB2	30:DF:149:ARG:HD2	1.90	0.54
31:DG:18:ILE:O	31:DG:18:ILE:HG22	2.08	0.54
25:DA:7:G:H5''	34:DJ:123:LYS:NZ	2.23	0.54
25:DA:1153:C:H5''	41:DQ:61:ILE:HD13	1.89	0.54
41:DQ:98:ALA:HB2	41:DQ:105:PHE:CE2	2.42	0.54
45:DU:73:ASN:HA	45:DU:95:PHE:CE2	2.43	0.54
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.38	0.53
1:AA:324:G:N2	1:AA:326:G:H3'	2.22	0.53
1:AA:622:A:C8	1:AA:623:C:C5	2.96	0.53
1:AA:988:G:C6	1:AA:989:U:N3	2.76	0.53
2:AB:110:ILE:HD12	2:AB:147:LEU:HD13	1.90	0.53
3:AC:174:LEU:HD12	3:AC:174:LEU:O	2.08	0.53
4:AD:24:VAL:O	4:AD:25:ARG:O	2.25	0.53
7:AG:55:LYS:O	7:AG:60:ALA:HB2	2.08	0.53
7:AG:93:VAL:O	7:AG:96:ASN:OD1	2.25	0.53
1:AA:1060:U:C5'	10:AJ:53:ILE:HG23	2.37	0.53
10:AJ:65:TYR:HA	14:AN:98:LYS:HA	1.91	0.53
10:AJ:6:ILE:HD12	10:AJ:76:ILE:O	2.08	0.53
11:AK:124:LYS:O	21:AU:33:ARG:NE	2.40	0.53
1:BA:1073:U:C2'	1:BA:1073:U:O2	2.53	0.53
1:BA:1128:C:H4'	1:BA:1148:U:O2	2.07	0.53
1:BA:1285:A:H4'	1:BA:1286:U:N3	2.22	0.53
1:BA:1386:G:N3	1:BA:1387:G:C8	2.76	0.53
1:BA:1424:U:C4	1:BA:1425:U:C4	2.96	0.53
1:BA:244:U:H4'	1:BA:245:U:H5''	1.89	0.53
1:BA:417:G:C6	1:BA:418:C:N3	2.76	0.53
1:BA:446:G:H2'	1:BA:447:G:O5'	2.07	0.53
1:BA:83:C:OP1	1:BA:83:C:H4'	2.08	0.53
3:BC:83:VAL:HA	3:BC:86:LEU:HD12	1.89	0.53
4:BD:43:ARG:HA	4:BD:43:ARG:CZ	2.38	0.53
5:BE:82:HIS:NE2	5:BE:146:MET:HG3	2.23	0.53
6:BF:96:VAL:O	6:BF:97:THR:HG23	2.07	0.53
7:BG:34:LYS:CB	7:BG:37:THR:CG2	2.86	0.53
10:BJ:53:ILE:O	10:BJ:53:ILE:HG12	2.07	0.53
1:BA:1302:C:C5	13:BM:16:ILE:CD1	2.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:35:ALA:CB	14:BN:41:ARG:CG	2.85	0.53
16:BP:39:PHE:O	16:BP:41:PRO:HD3	2.08	0.53
11:BK:109:ILE:HG22	21:BU:16:ARG:CZ	2.38	0.53
21:BU:3:ILE:N	21:BU:18:PHE:CD1	2.77	0.53
52:C1:10:LEU:HA	52:C1:49:LYS:O	2.08	0.53
25:CA:1084:A:H2'	25:CA:1085:A:C8	2.43	0.53
25:CA:1409:U:H2'	25:CA:1410:G:O4'	2.08	0.53
25:CA:1799:G:H4'	25:CA:1800:C:O5'	2.07	0.53
25:CA:1838:C:N4	25:CA:1899:A:C4	2.76	0.53
25:CA:1954:G:O2'	25:CA:1956:U:O4	2.19	0.53
25:CA:2128:G:C2'	25:CA:2129:C:H5'	2.38	0.53
25:CA:2156:G:H3'	25:CA:2157:G:C8	2.43	0.53
25:CA:2303:G:C5	25:CA:2304:G:N7	2.77	0.53
25:CA:2383:G:O2'	25:CA:2384:U:H5'	2.08	0.53
25:CA:2592:G:C6	25:CA:2593:U:C4	2.96	0.53
29:CE:23:PHE:HB2	29:CE:111:GLU:HG2	1.90	0.53
30:CF:69:ALA:HB2	30:CF:82:TYR:O	2.08	0.53
32:CH:48:GLU:C	32:CH:48:GLU:CD	2.66	0.53
33:CI:101:SER:HB3	33:CI:104:GLN:CD	2.28	0.53
33:CI:18:ASN:ND2	33:CI:27:LEU:CD2	2.71	0.53
44:CT:17:SER:O	44:CT:18:GLU:C	2.46	0.53
49:CY:18:LEU:HG	49:CY:22:LEU:HB2	1.90	0.53
25:DA:1056:G:C2	25:DA:1102:C:C5	2.95	0.53
25:DA:1140:C:H5'	34:DJ:26:GLY:HA3	1.90	0.53
25:DA:1463:C:H2'	25:DA:1464:G:O4'	2.09	0.53
25:DA:1467:U:C2'	25:DA:1468:U:O5'	2.56	0.53
25:DA:1495:A:H1'	25:DA:1579:A:H5'	1.90	0.53
25:DA:1708:C:H2'	25:DA:1709:U:C6	2.43	0.53
25:DA:1912:A:C8	25:DA:1918:A:C2	2.96	0.53
25:DA:2648:G:C5	25:DA:2649:C:C5	2.96	0.53
25:DA:2673:G:N3	25:DA:2674:G:C8	2.76	0.53
25:DA:2707:U:C2'	25:DA:2707:U:O2	2.54	0.53
25:DA:2833:U:H4'	25:DA:2834:G:OP2	2.08	0.53
25:DA:417:C:C2	25:DA:418:C:C5	2.96	0.53
25:DA:60:G:H1'	25:DA:61:C:OP1	2.07	0.53
25:DA:718:A:H2'	25:DA:719:C:H5'	1.90	0.53
25:DA:91:A:H4'	25:DA:92:U:O5'	2.09	0.53
33:DI:30:GLN:HG2	33:DI:31:GLY:H	1.73	0.53
33:DI:33:ASN:HB3	33:DI:36:GLU:HG2	1.89	0.53
34:DJ:95:ARG:HG2	34:DJ:96:ARG:N	2.22	0.53
39:DO:49:VAL:CG1	39:DO:81:ARG:HB3	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DY:12:GLU:HA	49:DY:12:GLU:OE1	2.08	0.53
49:DY:13:GLU:C	49:DY:15:ASN:N	2.58	0.53
25:DA:78:U:OP2	49:DY:2:LYS:HD3	2.07	0.53
1:AA:1233:G:OP2	9:AI:125:GLN:HB2	2.06	0.53
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.73	0.53
1:AA:1430:A:OP2	1:AA:1430:A:C8	2.61	0.53
1:AA:1502:A:N7	1:AA:1504:G:N3	2.57	0.53
1:AA:805:C:C2'	1:AA:806:C:H5'	2.38	0.53
2:AB:65:LYS:O	2:AB:158:ASP:HB2	2.08	0.53
3:AC:24:ASN:O	3:AC:25:THR:C	2.46	0.53
4:AD:2:ARG:NE	4:AD:114:ARG:HD3	2.23	0.53
4:AD:47:LEU:HD23	4:AD:47:LEU:O	2.08	0.53
7:AG:45:ALA:HB1	7:AG:119:LEU:HB3	1.90	0.53
10:AJ:61:ALA:O	10:AJ:62:ARG:HB2	2.07	0.53
11:AK:86:LYS:HG3	11:AK:113:THR:HA	1.90	0.53
13:AM:18:LEU:HD11	13:AM:32:ILE:HG21	1.89	0.53
19:AS:28:LYS:HB3	19:AS:29:PRO:CD	2.38	0.53
20:AT:81:GLN:HA	20:AT:84:LYS:HG2	1.89	0.53
22:AV:24:G:O2'	22:AV:25:C:H5'	2.08	0.53
1:BA:1113:C:C2	1:BA:1114:C:C6	2.97	0.53
1:BA:1318:A:O2'	19:BS:36:ARG:HD3	2.08	0.53
1:BA:189:A:H2'	1:BA:190:A:C5'	2.37	0.53
1:BA:210:C:H5'	1:BA:211:G:C4	2.43	0.53
1:BA:527:G:O2'	1:BA:535:A:N1	2.31	0.53
1:BA:731:G:H5'	1:BA:766:A:H4'	1.89	0.53
1:BA:830:G:O2'	1:BA:831:A:H5'	2.08	0.53
2:BB:114:LYS:O	2:BB:116:LEU:N	2.41	0.53
2:BB:163:ILE:CG1	2:BB:203:ASP:HB2	2.38	0.53
2:BB:53:LEU:HD21	2:BB:212:TYR:CE2	2.44	0.53
3:BC:5:HIS:CE1	3:BC:183:TYR:HE2	2.26	0.53
7:BG:62:GLU:C	7:BG:62:GLU:OE2	2.47	0.53
9:BI:11:ARG:NH1	9:BI:106:ASP:HB3	2.24	0.53
11:BK:17:ASP:HB2	11:BK:80:ASN:O	2.08	0.53
13:BM:18:LEU:CG	13:BM:33:LEU:HD21	2.38	0.53
14:BN:16:ALA:HA	14:BN:55:SER:O	2.09	0.53
14:BN:25:GLU:OE1	14:BN:26:LEU:HD23	2.08	0.53
14:BN:62:ASN:OD1	14:BN:73:PHE:CE1	2.62	0.53
1:BA:186:C:C4'	20:BT:75:LYS:HD2	2.39	0.53
22:BV:51:U:H2'	22:BV:52:G:C8	2.43	0.53
53:C2:24:THR:O	53:C2:25:LYS:C	2.47	0.53
25:CA:1090:A:C6	25:CA:1091:G:N7	2.76	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1462:C:C2'	25:CA:1463:C:C5'	2.86	0.53
25:CA:1478:G:H1	25:CA:1513:U:H3	1.56	0.53
25:CA:1881:C:C4	25:CA:1882:U:C5	2.95	0.53
25:CA:2723:C:H2'	25:CA:2724:U:O5'	2.08	0.53
28:CD:38:LYS:HB3	28:CD:43:ASP:CB	2.38	0.53
28:CD:96:ILE:CG2	28:CD:97:SER:N	2.71	0.53
30:CF:69:ALA:HA	30:CF:84:ILE:HG21	1.89	0.53
31:CG:1:SER:O	31:CG:2:ARG:C	2.46	0.53
39:CO:30:ARG:HG2	39:CO:31:THR:N	2.22	0.53
40:CP:96:LEU:N	40:CP:96:LEU:HD23	2.23	0.53
25:DA:1089:A:H5''	25:DA:1090:A:OP2	2.08	0.53
25:DA:2207:C:H2'	25:DA:2208:C:H6	1.73	0.53
25:DA:2293:G:C2'	25:DA:2294:G:H5'	2.38	0.53
25:DA:2579:C:O2'	25:DA:2580:U:H5'	2.08	0.53
25:DA:263:G:H1'	25:DA:430:A:N3	2.24	0.53
25:DA:277:G:H2'	25:DA:278:A:OP2	2.07	0.53
28:DD:133:THR:HG23	28:DD:134:HIS:CD2	2.43	0.53
33:DI:7:TYR:HA	33:DI:58:ILE:HB	1.91	0.53
25:DA:2485:G:H5''	37:DM:45:GLN:HE21	1.72	0.53
40:DP:77:SER:HB3	40:DP:80:VAL:HG12	1.90	0.53
40:DP:99:LEU:C	40:DP:101:GLU:H	2.10	0.53
44:DT:45:ALA:O	44:DT:48:GLN:HB2	2.08	0.53
57:DW:30:GLY:O	57:DW:31:SER:C	2.46	0.53
49:DY:11:VAL:CG1	49:DY:11:VAL:O	2.56	0.53
1:AA:1108:G:H5'	3:AC:175:HIS:CD2	2.44	0.53
1:AA:1167:A:N7	1:AA:1169:A:C6	2.76	0.53
1:AA:1211:U:H1'	1:AA:1213:A:C2	2.44	0.53
1:AA:38:G:C2	1:AA:397:A:C2	2.96	0.53
1:AA:437:U:H2'	1:AA:438:U:H5'	1.89	0.53
1:AA:533:A:C2	1:AA:536:C:C5	2.97	0.53
1:AA:64:G:N2	1:AA:67:C:C4	2.75	0.53
3:AC:168:ARG:NE	3:AC:168:ARG:O	2.41	0.53
3:AC:64:ARG:O	3:AC:65:VAL:HB	2.07	0.53
3:AC:84:GLU:HG3	3:AC:85:LYS:N	2.23	0.53
6:AF:6:ILE:HA	6:AF:89:VAL:HA	1.89	0.53
8:AH:100:ILE:CD1	8:AH:128:VAL:HG23	2.39	0.53
15:AO:18:ALA:O	15:AO:19:ASN:HB2	2.07	0.53
16:AP:38:PHE:C	16:AP:38:PHE:CD1	2.81	0.53
22:AV:27:G:O2'	22:AV:28:G:H5'	2.09	0.53
23:AX:14:A:N6	23:AX:15:A:N1	2.57	0.53
1:AA:1539:C:H1'	23:AX:7:G:N2	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:53:ARG:HH22	24:AY:54:GLN:NE2	2.06	0.53
1:BA:1126:U:C1'	1:BA:1281:C:C6	2.91	0.53
1:BA:923:A:H8	1:BA:923:A:O5'	1.91	0.53
1:BA:931:C:H2'	1:BA:932:C:H6	1.74	0.53
1:BA:982:U:O2	1:BA:983:A:N1	2.41	0.53
4:BD:144:ILE:HG22	4:BD:145:ARG:O	2.08	0.53
5:BE:63:MET:O	5:BE:64:GLU:C	2.44	0.53
6:BF:70:VAL:HA	6:BF:73:GLU:OE1	2.09	0.53
8:BH:85:TYR:O	8:BH:86:LYS:HD2	2.09	0.53
10:BJ:40:ILE:HG23	10:BJ:41:PRO:HD2	1.91	0.53
10:BJ:71:LEU:O	10:BJ:72:ARG:HD3	2.08	0.53
12:BL:107:LYS:O	12:BL:108:ASP:HB2	2.09	0.53
12:BL:74:GLN:O	12:BL:76:HIS:N	2.41	0.53
13:BM:3:ILE:O	13:BM:5:GLY:N	2.42	0.53
13:BM:15:VAL:HG13	13:BM:40:GLU:HA	1.89	0.53
13:BM:6:ILE:HD12	13:BM:6:ILE:N	2.23	0.53
16:BP:6:LEU:HD12	16:BP:71:VAL:HG23	1.90	0.53
17:BQ:13:SER:O	17:BQ:20:ILE:CD1	2.56	0.53
17:BQ:30:HIS:CD2	17:BQ:31:PRO:HD2	2.43	0.53
20:BT:69:ASN:O	20:BT:72:ALA:N	2.41	0.53
22:BV:51:U:H2'	22:BV:52:G:H8	1.72	0.53
25:CA:1563:U:H2'	25:CA:1564:C:C6	2.43	0.53
25:CA:1784:A:OP2	60:CA:3703:HOH:O	2.18	0.53
25:CA:2522:U:C2'	25:CA:2523:G:H5'	2.38	0.53
27:CC:124:LYS:CB	27:CC:125:PRO:HD2	2.39	0.53
27:CC:22:GLU:O	27:CC:22:GLU:HG3	2.09	0.53
28:CD:86:GLU:OE1	28:CD:86:GLU:HA	2.08	0.53
32:CH:100:ALA:O	32:CH:104:THR:HG23	2.08	0.53
32:CH:7:ASP:CA	32:CH:15:LEU:HD22	2.38	0.53
32:CH:80:ILE:HD12	32:CH:144:VAL:CG1	2.39	0.53
36:CL:47:ARG:HG2	36:CL:47:ARG:NH2	2.23	0.53
37:CM:113:ALA:O	37:CM:116:ALA:N	2.40	0.53
37:CM:72:PRO:HB3	37:CM:92:TRP:CZ3	2.43	0.53
45:CU:82:VAL:HG12	45:CU:83:GLY:N	2.22	0.53
25:DA:1171:G:N2	25:DA:1178:C:O2	2.41	0.53
25:DA:121:G:H2'	25:DA:122:G:H8	1.72	0.53
25:DA:149:A:C2	25:DA:150:U:C6	2.97	0.53
25:DA:2057:G:P	60:DA:3492:HOH:O	2.65	0.53
25:DA:2104:C:O2	25:DA:2186:G:N2	2.41	0.53
25:DA:2236:U:C2'	25:DA:2237:G:H5'	2.37	0.53
25:DA:2277:G:H2'	25:DA:2278:A:H5''	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:543:G:C5'	25:DA:543:G:H8	2.22	0.53
56:DB:30:C:H1'	56:DB:57:A:H61	1.74	0.53
27:DC:76:VAL:HG23	27:DC:112:GLY:O	2.08	0.53
25:DA:1844:C:O3'	27:DC:255:LYS:HE3	2.08	0.53
28:DD:101:PHE:HA	28:DD:104:VAL:HG13	1.90	0.53
32:DH:3:VAL:O	32:DH:19:VAL:CG2	2.56	0.53
32:DH:9:VAL:CG2	32:DH:35:LYS:CE	2.86	0.53
33:DI:116:MET:CE	33:DI:128:ILE:HD11	2.39	0.53
34:DJ:117:ALA:C	34:DJ:119:PHE:N	2.62	0.53
36:DL:109:LYS:HB3	36:DL:111:ILE:CD1	2.39	0.53
1:AA:1013:G:N2	1:AA:1017:U:N3	2.56	0.53
1:AA:1266:G:N1	1:AA:1270:G:C6	2.76	0.53
1:AA:1429:A:OP2	1:AA:1429:A:H8	1.91	0.53
1:AA:437:U:N3	1:AA:438:U:C5	2.76	0.53
1:AA:458:U:H2'	1:AA:459:A:C8	2.43	0.53
1:AA:589:U:H2'	1:AA:590:U:C6	2.43	0.53
3:AC:72:PRO:HG3	3:AC:104:GLU:HB2	1.89	0.53
3:AC:109:GLU:HB2	3:AC:143:LEU:CD2	2.39	0.53
4:AD:117:VAL:HG12	4:AD:130:ASN:HA	1.91	0.53
6:AF:16:GLU:CD	4:BD:190:LEU:O	2.46	0.53
6:AF:47:LEU:HD12	6:AF:55:HIS:HA	1.90	0.53
8:AH:110:MET:HE1	8:AH:115:ALA:HA	1.91	0.53
8:AH:79:ARG:HB2	8:AH:80:PRO:CD	2.38	0.53
10:AJ:42:LEU:HB3	10:AJ:71:LEU:HB3	1.89	0.53
21:AU:24:LYS:O	21:AU:28:LEU:HB2	2.07	0.53
1:BA:1148:U:H5''	9:BI:8:THR:CG2	2.39	0.53
1:BA:1328:C:H5''	13:BM:27:THR:HG21	1.90	0.53
1:BA:1340:A:C2	1:BA:1341:U:C2	2.96	0.53
1:BA:1492:A:H3'	1:BA:1493:A:H8	1.72	0.53
1:BA:209:U:C5'	1:BA:210:C:OP2	2.56	0.53
1:BA:462:G:C5	1:BA:463:U:C6	2.96	0.53
1:BA:842:U:O2'	1:BA:846:G:C2	2.62	0.53
1:BA:844:G:OP1	1:BA:844:G:H3'	2.08	0.53
1:BA:847:G:O2'	1:BA:848:C:H5'	2.09	0.53
6:BF:99:ALA:O	6:BF:100:SER:HB3	2.09	0.53
12:BL:33:CYS:HA	12:BL:53:ARG:O	2.08	0.53
14:BN:46:LEU:HD12	14:BN:49:GLN:HB2	1.89	0.53
16:BP:12:LYS:O	16:BP:13:LYS:HB2	2.07	0.53
20:BT:54:GLN:HB3	20:BT:55:PRO:HD3	1.90	0.53
54:C3:31:ILE:O	54:C3:35:LYS:HE3	2.08	0.53
55:C4:37:GLN:HG2	55:C4:37:GLN:O	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2298:A:C2'	25:CA:2299:U:H5'	2.38	0.53
25:CA:752:A:H62	25:CA:2609:U:H3	1.55	0.53
25:CA:2660:A:N1	25:CA:2661:G:C4	2.76	0.53
25:CA:2708:G:O2'	25:CA:2709:G:H5'	2.09	0.53
27:CC:140:VAL:HG11	27:CC:189:ALA:HB1	1.89	0.53
29:CE:131:THR:HG22	29:CE:160:ALA:CA	2.39	0.53
30:CF:91:ARG:HA	30:CF:95:MET:HE2	1.90	0.53
33:CI:17:ALA:HB1	33:CI:41:PHE:CE2	2.44	0.53
37:CM:113:ALA:O	37:CM:115:GLU:N	2.40	0.53
25:DA:1456:G:C6	25:DA:1457:U:C4	2.96	0.53
25:DA:1363:C:O2'	25:DA:1809:A:H1'	2.07	0.53
25:DA:2102:G:C2'	25:DA:2103:C:H5'	2.39	0.53
25:DA:2155:U:H2'	25:DA:2156:G:O4'	2.08	0.53
25:DA:2134:A:N6	25:DA:2157:G:H1'	2.23	0.53
25:DA:21:A:C2'	25:DA:22:C:H5'	2.39	0.53
25:DA:328:U:H4'	45:DU:65:GLN:HG3	1.89	0.53
56:DB:109:A:H2'	56:DB:110:C:O4'	2.08	0.53
56:DB:30:C:H2'	56:DB:31:C:H5'	1.89	0.53
27:DC:136:VAL:HG22	27:DC:166:ARG:HB2	1.90	0.53
29:DE:115:GLN:HA	29:DE:115:GLN:OE1	2.09	0.53
29:DE:44:ARG:O	29:DE:45:ALA:HB2	2.07	0.53
32:DH:72:ILE:HG21	32:DH:140:ALA:HB1	1.90	0.53
34:DJ:29:ALA:HA	34:DJ:32:LEU:HD12	1.89	0.53
38:DN:87:PHE:CE1	38:DN:94:TYR:HB3	2.43	0.53
25:DA:534:U:O2'	41:DQ:48:ASP:OD1	2.21	0.53
42:DR:49:ILE:CG2	42:DR:53:PHE:N	2.71	0.53
48:DX:38:TRP:HE3	48:DX:45:PHE:CD2	2.26	0.53
49:DY:60:LYS:O	49:DY:61:ALA:O	2.26	0.53
1:AA:1246:A:C2	1:AA:1247:U:C2	2.97	0.53
1:AA:204:G:H1'	1:AA:465:A:C2	2.43	0.53
1:AA:283:U:H2'	1:AA:284:C:H6	1.72	0.53
1:AA:382:A:H2'	1:AA:383:A:C8	2.43	0.53
1:AA:430:A:H2'	1:AA:430:A:N3	2.23	0.53
1:AA:587:G:H4'	8:AH:3:GLN:CA	2.34	0.53
1:AA:649:A:H2'	1:AA:650:G:H5''	1.89	0.53
3:AC:87:ARG:HG3	3:AC:100:ILE:HG22	1.91	0.53
5:AE:71:ILE:HG23	5:AE:72:ASN:N	2.22	0.53
6:AF:5:GLU:HG3	6:AF:5:GLU:O	2.08	0.53
6:AF:93:LYS:O	6:AF:94:HIS:HB2	2.07	0.53
8:AH:48:PHE:O	8:AH:49:LYS:HB2	2.07	0.53
9:AI:105:ARG:HD2	9:AI:105:ARG:O	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:15:VAL:HG22	11:AK:16:SER:N	2.24	0.53
12:AL:19:ASN:C	12:AL:20:VAL:HG12	2.29	0.53
13:AM:44:ILE:N	13:AM:44:ILE:CD1	2.72	0.53
16:AP:20:VAL:HG22	16:AP:35:ARG:HA	1.90	0.53
16:AP:18:GLN:HG3	16:AP:35:ARG:HD2	1.90	0.53
16:AP:48:GLU:CG	16:AP:49:GLY:N	2.71	0.53
22:AV:61:C:H2'	22:AV:62:C:H6	1.73	0.53
1:BA:1073:U:N3	1:BA:1074:G:N7	2.57	0.53
1:BA:1239:A:C4'	1:BA:1240:U:OP1	2.56	0.53
1:BA:154:U:C2	1:BA:168:G:C2	2.96	0.53
1:BA:183:C:HO2'	1:BA:184:G:P	2.32	0.53
1:BA:209:U:H4'	1:BA:210:C:OP2	2.09	0.53
1:BA:255:G:C4	1:BA:256:U:C5	2.97	0.53
1:BA:40:C:H2'	1:BA:41:G:O4'	2.07	0.53
1:BA:872:A:C5	1:BA:874:G:C8	2.96	0.53
2:BB:99:MET:CB	2:BB:106:VAL:HG21	2.38	0.53
3:BC:110:LEU:CD1	3:BC:145:ALA:HB2	2.38	0.53
3:BC:150:VAL:HA	3:BC:198:LYS:O	2.09	0.53
7:BG:68:VAL:O	7:BG:70:PRO:CD	2.57	0.53
9:BI:47:VAL:HG12	9:BI:78:ILE:CG2	2.38	0.53
9:BI:46:VAL:HA	9:BI:49:GLN:HG3	1.90	0.53
14:BN:31:SER:O	14:BN:32:ASP:CB	2.57	0.53
14:BN:75:ARG:O	14:BN:76:LYS:C	2.46	0.53
16:BP:16:PHE:CD2	16:BP:40:ASN:HB2	2.43	0.53
21:BU:23:GLU:HA	21:BU:27:VAL:CG2	2.38	0.53
25:CA:2287:A:H2'	25:CA:2287:A:N3	2.24	0.53
25:CA:365:U:O2'	25:CA:366:C:H5'	2.07	0.53
25:CA:772:C:C2'	25:CA:773:U:O5'	2.56	0.53
27:CC:141:HIS:CE1	27:CC:190:THR:CG2	2.92	0.53
27:CC:72:GLY:HA2	27:CC:116:GLN:HE21	1.73	0.53
32:CH:116:ARG:HD2	32:CH:133:GLN:CG	2.37	0.53
32:CH:76:GLU:HG2	32:CH:143:ILE:HD12	1.90	0.53
33:CI:82:ALA:HB1	33:CI:108:ILE:HD13	1.91	0.53
37:CM:43:ALA:O	37:CM:44:ARG:C	2.45	0.53
39:CO:24:THR:HG22	39:CO:42:PRO:HD3	1.90	0.53
41:CQ:20:ALA:HB2	41:CQ:38:VAL:HG23	1.90	0.53
42:CR:42:ALA:CA	42:CR:46:GLU:HB2	2.31	0.53
46:CV:2:PHE:HB3	46:CV:50:MET:CE	2.39	0.53
51:D0:14:MET:O	51:D0:17:SER:HB2	2.09	0.53
25:DA:1074:G:O2'	25:DA:1075:C:H5'	2.08	0.53
25:DA:1324:G:C4	25:DA:1328:A:N6	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1439:A:C8	25:DA:1440:U:C6	2.97	0.53
25:DA:1681:G:N3	25:DA:1762:A:H2'	2.23	0.53
25:DA:2114:A:C2	25:DA:2166:U:H2'	2.43	0.53
25:DA:2703:C:C2	25:DA:2704:C:C5	2.96	0.53
25:DA:2774:C:H2'	25:DA:2775:G:O4'	2.09	0.53
32:DH:63:ALA:HA	32:DH:66:ASN:H	1.74	0.53
33:DI:56:VAL:HG21	33:DI:68:PHE:HB2	1.90	0.53
42:DR:29:THR:HG22	42:DR:29:THR:O	2.09	0.53
46:DV:30:ILE:HG13	46:DV:40:ILE:HG13	1.91	0.53
1:AA:1151:A:O2'	1:AA:1152:A:O5'	2.21	0.53
1:AA:142:G:C5	1:AA:143:A:C8	2.96	0.53
1:AA:369:G:C4	1:AA:370:C:C5	2.97	0.53
2:AB:53:LEU:HD11	2:AB:216:VAL:HA	1.90	0.53
2:AB:53:LEU:HD11	2:AB:216:VAL:HG22	1.90	0.53
2:AB:32:GLY:O	2:AB:33:ALA:HB2	2.09	0.53
3:AC:117:ASP:HA	3:AC:120:THR:HB	1.91	0.53
5:AE:75:LEU:HD21	5:AE:119:VAL:HG12	1.90	0.53
10:AJ:7:ARG:O	10:AJ:100:ILE:O	2.27	0.53
11:AK:22:ILE:HG22	11:AK:31:VAL:HG22	1.90	0.53
1:AA:538:G:H5''	12:AL:110:LYS:HB2	1.89	0.53
16:AP:20:VAL:HG23	16:AP:35:ARG:HA	1.90	0.53
17:AQ:45:VAL:HG11	17:AQ:60:ILE:CG1	2.38	0.53
18:AR:42:ARG:HG2	18:AR:43:ILE:CD1	2.39	0.53
19:AS:10:ILE:HG13	19:AS:37:SER:HB3	1.91	0.53
20:AT:14:GLU:O	20:AT:15:LYS:C	2.46	0.53
1:AA:193:C:O4'	20:AT:54:GLN:OE1	2.26	0.53
21:AU:4:LYS:C	21:AU:4:LYS:HD2	2.29	0.53
1:BA:1106:G:H2'	1:BA:1107:C:C6	2.42	0.53
1:BA:1250:A:N7	1:BA:1287:A:C8	2.76	0.53
1:BA:1410:A:H2'	1:BA:1411:C:C6	2.44	0.53
1:BA:1422:G:N2	1:BA:1423:G:C4	2.76	0.53
1:BA:220:G:C2	1:BA:221:C:C5	2.96	0.53
1:BA:254:G:C4	1:BA:255:G:C8	2.97	0.53
1:BA:559:A:H4'	1:BA:560:A:H3'	1.90	0.53
1:BA:728:A:N6	1:BA:729:A:N6	2.55	0.53
1:BA:872:A:C4	1:BA:874:G:C8	2.96	0.53
2:BB:34:ARG:O	2:BB:36:LYS:N	2.42	0.53
3:BC:22:PHE:O	3:BC:23:ALA:HB2	2.09	0.53
1:BA:404:G:N7	4:BD:1:ALA:N	2.56	0.53
4:BD:34:GLU:O	4:BD:37:PRO:HD3	2.08	0.53
5:BE:152:VAL:HG23	5:BE:156:ARG:HB2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:145:GLU:OE1	7:BG:148:LYS:HE2	2.09	0.53
9:BI:19:PHE:CB	9:BI:63:TYR:HB3	2.35	0.53
10:BJ:93:ALA:HB1	10:BJ:96:VAL:HB	1.91	0.53
1:BA:705:G:N2	11:BK:30:ILE:HD12	2.24	0.53
12:BL:28:GLN:CB	12:BL:81:ILE:O	2.57	0.53
13:BM:24:VAL:CG2	13:BM:25:GLY:N	2.72	0.53
17:BQ:7:LEU:HB3	17:BQ:24:ILE:CD1	2.39	0.53
21:BU:3:ILE:HA	21:BU:19:LYS:HZ1	1.74	0.53
25:CA:1246:A:C2'	25:CA:1247:A:O5'	2.57	0.53
25:CA:1483:G:C4	25:CA:1484:U:C5	2.96	0.53
25:CA:1499:C:C4	25:CA:1500:G:N7	2.77	0.53
25:CA:2147:A:H2'	25:CA:2148:G:O4'	2.08	0.53
25:CA:2185:U:H2'	25:CA:2185:U:O2	2.06	0.53
25:CA:964:C:O2'	25:CA:2273:A:N3	2.35	0.53
25:CA:2276:G:H2'	25:CA:2277:G:H5'	1.89	0.53
25:CA:2418:A:C5	25:CA:2419:U:C5	2.97	0.53
25:CA:2474:U:H5''	25:CA:2475:C:OP2	2.08	0.53
25:CA:2685:G:OP1	35:CK:78:ARG:NH2	2.41	0.53
25:CA:550:C:H2'	25:CA:550:C:O2	2.08	0.53
26:CB:30:C:C2'	26:CB:31:C:H5'	2.39	0.53
27:CC:173:LEU:N	27:CC:173:LEU:HD13	2.23	0.53
27:CC:216:ARG:HB3	27:CC:217:PRO:HD2	1.91	0.53
31:CG:51:PHE:CE2	31:CG:68:ARG:HA	2.44	0.53
33:CI:5:GLN:HG2	33:CI:5:GLN:O	2.07	0.53
33:CI:57:VAL:C	33:CI:68:PHE:HB2	2.29	0.53
33:CI:79:LEU:HD13	33:CI:135:MET:CE	2.39	0.53
34:CJ:64:VAL:HG13	34:CJ:65:THR:N	2.22	0.53
49:CY:32:ALA:O	49:CY:33:ALA:C	2.46	0.53
25:DA:1351:C:H2'	25:DA:1352:U:C1'	2.39	0.53
25:DA:1354:A:N7	25:DA:1355:G:N9	2.57	0.53
25:DA:1475:G:H1'	25:DA:1476:U:OP2	2.08	0.53
25:DA:1779:U:H2'	60:DA:3695:HOH:O	2.07	0.53
25:DA:2102:G:O2'	25:DA:2103:C:H5'	2.07	0.53
25:DA:2228:G:H2'	25:DA:2229:U:C6	2.43	0.53
25:DA:2690:U:C4	25:DA:2873:A:C2	2.97	0.53
25:DA:2742:G:OP1	55:D4:36:ARG:CD	2.56	0.53
25:DA:2792:A:C2	25:DA:2793:C:C4	2.96	0.53
25:DA:2796:U:C2'	25:DA:2797:U:H2'	2.39	0.53
25:DA:549:G:N3	25:DA:549:G:O4'	2.41	0.53
25:DA:665:U:O2	25:DA:665:U:C2'	2.54	0.53
28:DD:52:THR:HG23	28:DD:53:GLY:N	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:198:GLU:HG3	29:DE:198:GLU:O	2.09	0.53
30:DF:41:GLU:CB	30:DF:48:LEU:CD2	2.85	0.53
31:DG:41:GLU:HB2	31:DG:54:ARG:HE	1.73	0.53
33:DI:104:GLN:O	33:DI:105:LEU:HB2	2.07	0.53
33:DI:21:PRO:HD2	33:DI:22:PRO:HD2	1.90	0.53
33:DI:45:THR:CG2	33:DI:50:LYS:HG3	2.39	0.53
34:DJ:96:ARG:HG2	34:DJ:96:ARG:HH21	1.72	0.53
37:DM:124:LEU:CD2	37:DM:124:LEU:N	2.71	0.53
37:DM:33:LEU:HD22	37:DM:117:PHE:CG	2.44	0.53
39:DO:34:HIS:HB3	39:DO:36:TYR:CE2	2.44	0.53
1:AA:1446:A:H2'	1:AA:1447:A:H5'	1.89	0.53
1:AA:395:C:H2'	1:AA:396:C:H6	1.74	0.53
1:AA:633:G:OP2	8:AH:87:ARG:NH2	2.42	0.53
1:AA:978:A:C2'	1:AA:979:C:H5'	2.39	0.53
1:AA:989:U:H2'	1:AA:990:C:H6	1.74	0.53
2:AB:110:ILE:HG22	2:AB:111:LYS:N	2.22	0.53
2:AB:80:LYS:HG3	2:AB:84:LEU:HD22	1.91	0.53
3:AC:56:ILE:HG12	3:AC:65:VAL:HG22	1.90	0.53
9:AI:56:MET:HA	9:AI:59:LYS:CB	2.38	0.53
1:BA:1149:C:HO2'	1:BA:1280:A:H2	1.55	0.53
1:BA:1267:C:C2'	1:BA:1268:G:H5'	2.38	0.53
1:BA:1452:C:H4'	1:BA:1453:G:C5'	2.38	0.53
1:BA:552:U:H2'	1:BA:553:A:C8	2.43	0.53
1:BA:567:G:H2'	1:BA:568:G:O4'	2.08	0.53
1:BA:840:C:C4	1:BA:842:U:C5'	2.91	0.53
1:BA:854:U:H3'	1:BA:871:U:H3	1.72	0.53
2:BB:57:ASN:O	2:BB:58:LYS:HB2	2.08	0.53
3:BC:146:LYS:HG3	3:BC:203:LYS:O	2.08	0.53
4:BD:32:LYS:O	4:BD:33:ILE:C	2.47	0.53
5:BE:104:ILE:HD11	5:BE:114:LEU:HB3	1.91	0.53
7:BG:136:LYS:O	7:BG:139:ASP:CB	2.57	0.53
7:BG:17:PHE:CZ	7:BG:57:GLU:HG2	2.44	0.53
14:BN:35:ALA:HB2	14:BN:41:ARG:HG3	1.88	0.53
14:BN:50:THR:C	14:BN:51:LEU:HD23	2.29	0.53
16:BP:6:LEU:N	16:BP:6:LEU:HD12	2.23	0.53
21:BU:4:LYS:HD2	21:BU:4:LYS:O	2.08	0.53
25:CA:1319:C:O2'	25:CA:1320:C:H5'	2.08	0.53
25:CA:1869:G:C6	25:CA:1871:A:OP2	2.61	0.53
25:CA:2143:C:H2'	25:CA:2144:G:C8	2.43	0.53
25:CA:247:G:C8	25:CA:249:C:C5	2.97	0.53
25:CA:2631:G:H2'	25:CA:2632:A:O5'	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2886:A:C4	25:CA:2887:A:C8	2.97	0.53
25:CA:649:G:H2'	25:CA:650:C:H6	1.73	0.53
25:CA:892:A:N3	25:CA:892:A:H2'	2.23	0.53
25:CA:1902:C:H5''	27:CC:239:PHE:CE1	2.44	0.53
31:CG:126:THR:CG2	31:CG:127:GLN:N	2.72	0.53
34:CJ:77:HIS:CD2	34:CJ:79:GLY:HA2	2.43	0.53
40:CP:25:VAL:HG23	40:CP:84:SER:O	2.07	0.53
45:CU:87:GLU:O	45:CU:88:ASP:HB3	2.08	0.53
25:DA:1196:C:O4'	25:DA:1226:A:C2	2.61	0.53
25:DA:1392:A:C5	25:DA:1393:A:C6	2.97	0.53
25:DA:1670:C:O2	25:DA:1993:U:H1'	2.09	0.53
25:DA:2148:G:H2'	25:DA:2149:U:C5	2.43	0.53
25:DA:2756:U:C4	25:DA:2759:G:O6	2.62	0.53
25:DA:362:A:OP2	25:DA:362:A:C8	2.62	0.53
25:DA:422:A:H2'	25:DA:422:A:N3	2.24	0.53
25:DA:531:C:C5	25:DA:2035:G:C2	2.97	0.53
25:DA:545:U:C6	25:DA:547:A:H4'	2.44	0.53
25:DA:515:A:H1'	25:DA:581:C:H1'	1.90	0.53
25:DA:817:C:OP1	60:DA:3585:HOH:O	2.19	0.53
25:DA:997:G:OP1	41:DQ:91:ARG:HG2	2.08	0.53
56:DB:58:A:H2'	56:DB:59:A:C8	2.44	0.53
27:DC:170:TYR:CD2	27:DC:184:GLU:HA	2.43	0.53
27:DC:253:GLY:O	27:DC:254:LYS:CB	2.57	0.53
28:DD:90:PHE:CE2	28:DD:96:ILE:CD1	2.90	0.53
32:DH:31:VAL:CB	32:DH:32:PRO:CD	2.87	0.53
38:DN:35:LYS:HD2	38:DN:100:CYS:SG	2.49	0.53
1:AA:1239:A:C2	1:AA:1241:G:N1	2.77	0.53
1:AA:1321:U:H3'	1:AA:1322:C:O2	2.09	0.53
1:AA:386:C:O2'	1:AA:387:U:H5'	2.09	0.53
3:AC:129:PHE:CZ	3:AC:130:ARG:HD2	2.44	0.53
4:AD:16:THR:HG22	4:AD:17:ASP:O	2.08	0.53
5:AE:132:PRO:C	5:AE:134:ASN:N	2.62	0.53
5:AE:148:SER:O	5:AE:152:VAL:HG12	2.08	0.53
6:AF:2:ARG:HG2	6:AF:92:THR:HG21	1.90	0.53
9:AI:20:ILE:HG21	9:AI:60:LEU:HD12	1.90	0.53
1:AA:1060:U:C5'	10:AJ:53:ILE:CG2	2.85	0.53
11:AK:54:SER:O	11:AK:55:ARG:C	2.48	0.53
11:AK:81:LEU:HD23	11:AK:81:LEU:N	2.24	0.53
12:AL:49:ARG:HB2	12:AL:89:LEU:HD21	1.91	0.53
13:AM:17:ALA:O	13:AM:20:SER:CB	2.57	0.53
16:AP:61:VAL:HA	16:AP:65:ALA:HB3	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:34:ARG:O	21:AU:36:PHE:N	2.42	0.53
1:BA:1179:A:H2'	1:BA:1180:A:H5'	1.91	0.53
1:BA:1328:C:H5''	13:BM:27:THR:CG2	2.38	0.53
1:BA:1377:A:O2'	7:BG:1:PRO:HG2	2.08	0.53
1:BA:15:G:C2	1:BA:16:A:C4	2.97	0.53
1:BA:215:C:H2'	1:BA:216:U:O4'	2.09	0.53
1:BA:116:A:H61	1:BA:313:A:H1'	1.74	0.53
1:BA:455:G:C2'	1:BA:456:A:H5'	2.38	0.53
1:BA:646:G:H2'	1:BA:647:C:H6	1.74	0.53
2:BB:163:ILE:HG12	2:BB:164:ASP:N	2.23	0.53
2:BB:81:ASP:OD1	2:BB:83:ALA:HB3	2.08	0.53
4:BD:58:GLN:O	4:BD:62:ARG:HG3	2.07	0.53
5:BE:55:VAL:HB	5:BE:56:PRO:CD	2.39	0.53
6:BF:36:ILE:HA	6:BF:64:VAL:HG13	1.90	0.53
6:BF:38:ARG:HG3	6:BF:39:LEU:N	2.21	0.53
6:BF:90:MET:O	6:BF:91:ARG:O	2.26	0.53
6:BF:97:THR:O	6:BF:98:GLU:HG2	2.08	0.53
8:BH:9:MET:CE	8:BH:32:LYS:O	2.57	0.53
9:BI:23:GLY:HA3	9:BI:61:ASP:OD2	2.09	0.53
13:BM:113:LYS:CB	13:BM:114:PRO:HD3	2.38	0.53
13:BM:77:LYS:HA	13:BM:80:MET:HE2	1.91	0.53
15:BO:27:GLN:O	15:BO:31:LEU:HD12	2.08	0.53
17:BQ:44:HIS:CG	17:BQ:69:THR:CG2	2.92	0.53
23:BX:8:A:C6	23:BX:9:G:C5	2.97	0.53
25:CA:1120:G:H2'	25:CA:1121:C:H5'	1.91	0.53
25:CA:1485:U:N3	25:CA:1505:A:C2	2.77	0.53
25:CA:1558:C:H4'	25:CA:1559:U:O5'	2.08	0.53
25:CA:178:G:C2'	25:CA:179:C:H5'	2.39	0.53
25:CA:2849:U:H4'	25:CA:2868:A:C2	2.43	0.53
25:CA:585:G:N7	41:CQ:5:ARG:NH1	2.57	0.53
25:CA:606:U:OP2	29:CE:99:LYS:HE3	2.09	0.53
25:CA:664:G:C2'	25:CA:665:U:H5'	2.39	0.53
26:CB:39:A:C2	26:CB:44:G:C2	2.97	0.53
27:CC:136:VAL:CG1	27:CC:137:GLY:N	2.72	0.53
29:CE:190:ALA:C	29:CE:192:ALA:H	2.11	0.53
30:CF:100:GLU:OE2	30:CF:104:THR:HG21	2.08	0.53
30:CF:69:ALA:HA	30:CF:84:ILE:CG2	2.37	0.53
36:CL:26:GLY:O	36:CL:27:LEU:C	2.46	0.53
41:CQ:98:ALA:HB2	41:CQ:105:PHE:CD2	2.44	0.53
25:DA:2372:U:O4'	52:D1:45:HIS:CD2	2.62	0.53
25:DA:120:U:H1'	25:DA:149:A:N7	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:122:G:C2'	25:DA:123:G:H5'	2.39	0.53
25:DA:1313:U:H5''	25:DA:1314:C:OP2	2.08	0.53
25:DA:1719:G:H22	25:DA:1742:U:H1'	1.74	0.53
25:DA:182:A:C6	25:DA:183:C:C4	2.96	0.53
25:DA:188:G:C2'	25:DA:189:G:H5'	2.39	0.53
25:DA:2114:A:C2	25:DA:2115:G:O4'	2.62	0.53
25:DA:2159:G:O2'	25:DA:2160:C:H5'	2.08	0.53
25:DA:2162:G:C4'	25:DA:2171:A:H2'	2.39	0.53
25:DA:2411:A:O2'	25:DA:2412:A:H5'	2.08	0.53
25:DA:2493:U:C2'	25:DA:2494:G:O5'	2.57	0.53
25:DA:2850:A:C4	25:DA:2851:A:C8	2.97	0.53
25:DA:368:A:H2'	25:DA:369:U:H5'	1.91	0.53
25:DA:582:A:N6	25:DA:583:G:O6	2.42	0.53
25:DA:585:G:H5''	25:DA:586:A:P	2.49	0.53
25:DA:640:C:C5	25:DA:641:U:C5	2.97	0.53
25:DA:657:U:H2'	25:DA:658:U:C6	2.44	0.53
25:DA:984:A:C5'	25:DA:985:C:OP2	2.54	0.53
27:DC:12:ARG:O	27:DC:13:ARG:C	2.46	0.53
27:DC:13:ARG:HG2	27:DC:14:HIS:CE1	2.44	0.53
27:DC:251:THR:HG22	27:DC:252:LYS:HG2	1.91	0.53
30:DF:135:ILE:HG23	30:DF:140:ILE:HG22	1.90	0.53
30:DF:35:LEU:HD12	30:DF:153:ILE:CD1	2.36	0.53
38:DN:76:VAL:CG1	38:DN:77:ALA:N	2.71	0.53
38:DN:81:ASN:O	38:DN:85:PRO:HD2	2.09	0.53
40:DP:38:ARG:HG3	40:DP:39:LEU:N	2.24	0.53
41:DQ:67:ALA:HB1	41:DQ:105:PHE:CE1	2.44	0.53
43:DS:20:VAL:O	43:DS:23:LEU:HB2	2.09	0.53
46:DV:32:GLY:O	46:DV:35:GLU:OE1	2.27	0.53
57:DW:64:LYS:HD3	57:DW:79:GLU:OE2	2.08	0.53
1:AA:978:A:C1'	1:AA:1322:C:H5	2.22	0.53
1:AA:274:A:C5'	17:AQ:15:LYS:CE	2.87	0.53
1:AA:118:U:O4	1:AA:288:A:H2'	2.09	0.53
1:AA:300:A:H1'	1:AA:565:U:O2	2.08	0.53
1:AA:322:C:O3'	20:AT:17:ARG:HG3	2.07	0.53
1:AA:446:G:H2'	1:AA:447:G:O4'	2.09	0.53
1:AA:689:C:H2'	1:AA:690:G:C8	2.44	0.53
2:AB:89:PHE:HB3	2:AB:149:GLY:O	2.08	0.53
3:AC:35:ASP:OD1	3:AC:58:ARG:NH1	2.42	0.53
7:AG:25:PHE:O	7:AG:26:VAL:C	2.47	0.53
10:AJ:29:ALA:CA	10:AJ:32:THR:HG22	2.33	0.53
14:AN:73:PHE:HE1	14:AN:75:ARG:HA	1.73	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:23:SER:OG	15:AO:26:VAL:HG23	2.08	0.53
17:AQ:16:MET:CB	17:AQ:19:SER:HB3	2.39	0.53
17:AQ:51:GLU:N	17:AQ:51:GLU:OE1	2.42	0.53
1:BA:89:U:H2'	1:BA:90:C:C6	2.44	0.53
5:BE:97:PRO:O	5:BE:98:ALA:HB3	2.09	0.53
6:BF:87:SER:O	6:BF:88:MET:HB2	2.09	0.53
8:BH:58:LEU:C	8:BH:58:LEU:HD12	2.29	0.53
10:BJ:65:TYR:HB3	14:BN:96:LEU:HD11	1.90	0.53
12:BL:47:ALA:HB3	12:BL:49:ARG:HE	1.73	0.53
13:BM:2:ARG:HA	13:BM:8:ILE:HG12	1.91	0.53
19:BS:17:LYS:HA	19:BS:20:LYS:NZ	2.24	0.53
51:C0:35:GLU:OE2	51:C0:45:ASP:HB2	2.08	0.53
25:CA:1121:C:H3'	25:CA:1121:C:C6	2.44	0.53
25:CA:1392:A:N6	44:CT:18:GLU:HG2	2.24	0.53
25:CA:1445:G:H2'	25:CA:1446:C:C6	2.44	0.53
25:CA:347:A:H2'	25:CA:348:A:C8	2.43	0.53
25:CA:846:U:O2	25:CA:846:U:C2'	2.57	0.53
27:CC:28:PRO:HG2	27:CC:33:LEU:HD11	1.91	0.53
27:CC:83:ASP:OD1	27:CC:83:ASP:C	2.46	0.53
28:CD:28:GLU:OE2	28:CD:30:GLU:HG3	2.08	0.53
30:CF:7:TYR:HA	30:CF:11:VAL:HG21	1.91	0.53
32:CH:34:GLY:O	32:CH:35:LYS:CG	2.57	0.53
32:CH:46:PHE:HD2	32:CH:47:PHE:N	2.07	0.53
36:CL:77:ILE:HD11	36:CL:101:ILE:HG21	1.90	0.53
46:CV:80:HIS:CD2	46:CV:81:PRO:HD2	2.44	0.53
25:DA:1096:A:C8	25:DA:1096:A:H3'	2.44	0.53
25:DA:1300:G:H3'	60:DA:3655:HOH:O	2.08	0.53
25:DA:1315:C:C2	25:DA:1316:U:C5	2.97	0.53
25:DA:1540:G:C5	25:DA:1541:C:C4	2.97	0.53
25:DA:2742:G:OP1	55:D4:36:ARG:HD2	2.09	0.53
25:DA:41:C:C2'	25:DA:42:A:O5'	2.57	0.53
25:DA:588:U:H2'	25:DA:589:U:C6	2.44	0.53
27:DC:74:PRO:HB2	27:DC:96:LYS:CE	2.38	0.53
28:DD:61:THR:HB	28:DD:63:PRO:HD2	1.91	0.53
34:DJ:80:HIS:O	34:DJ:82:GLY:N	2.41	0.53
36:DL:4:ASN:O	36:DL:5:THR:HG22	2.09	0.53
37:DM:15:GLY:O	37:DM:16:ARG:HD3	2.08	0.53
38:DN:17:ARG:HH21	38:DN:17:ARG:HG3	1.73	0.53
25:DA:2817:U:OP1	38:DN:99:LYS:HE2	2.08	0.53
40:DP:51:ASN:HA	40:DP:56:SER:HB3	1.91	0.53
44:DT:69:ARG:CZ	44:DT:69:ARG:HB3	2.39	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DY:24:GLU:O	49:DY:27:ASN:N	2.42	0.53
1:AA:1151:A:HO2'	1:AA:1152:A:C5'	2.20	0.53
1:AA:956:U:O2	1:AA:1225:A:C2	2.61	0.53
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.09	0.53
1:AA:160:A:H2'	1:AA:161:A:O4'	2.09	0.53
1:AA:477:C:H2'	1:AA:478:A:C8	2.43	0.53
1:AA:692:U:O2'	1:AA:694:A:N7	2.32	0.53
2:AB:112:ARG:O	2:AB:115:ASP:O	2.27	0.53
2:AB:89:PHE:N	2:AB:89:PHE:CD2	2.76	0.53
4:AD:159:GLU:O	4:AD:161:ALA:N	2.42	0.53
7:AG:21:LEU:C	7:AG:21:LEU:HD13	2.29	0.53
11:AK:75:GLU:N	11:AK:75:GLU:OE1	2.42	0.53
1:AA:363:A:OP1	12:AL:30:ARG:HB3	2.09	0.53
12:AL:32:VAL:HG12	12:AL:78:VAL:HG22	1.90	0.53
13:AM:70:ARG:HD2	13:AM:74:MET:HE3	1.91	0.53
19:AS:39:ILE:HG12	19:AS:70:LEU:CD2	2.38	0.53
1:BA:1009:U:O2	1:BA:1009:U:H2'	2.07	0.53
1:BA:107:G:H2'	1:BA:108:G:C5'	2.39	0.53
1:BA:1298:U:O4'	1:BA:1299:A:C5	2.62	0.53
1:BA:406:G:C2	1:BA:407:U:C6	2.97	0.53
1:BA:408:A:H2'	1:BA:409:U:O4'	2.08	0.53
1:BA:516:U:C2'	1:BA:517:G:H5'	2.39	0.53
1:BA:55:A:C4	1:BA:56:U:C6	2.97	0.53
1:BA:728:A:C6	1:BA:729:A:C6	2.97	0.53
1:BA:749:A:O2'	1:BA:750:C:H5'	2.08	0.53
1:BA:815:A:OP2	60:BA:1815:HOH:O	2.19	0.53
2:BB:98:GLY:O	2:BB:101:THR:N	2.41	0.53
3:BC:38:VAL:O	3:BC:42:LEU:HB2	2.09	0.53
5:BE:11:GLN:HA	5:BE:11:GLN:OE1	2.09	0.53
5:BE:155:LYS:H	5:BE:155:LYS:HE3	1.74	0.53
9:BI:110:VAL:HG23	9:BI:110:VAL:O	2.09	0.53
12:BL:74:GLN:O	12:BL:75:GLU:C	2.47	0.53
13:BM:47:LEU:HD22	13:BM:52:ILE:HG13	1.91	0.53
19:BS:17:LYS:HB3	19:BS:30:LEU:HD23	1.90	0.53
20:BT:66:ILE:O	20:BT:67:HIS:HB2	2.09	0.53
52:C1:42:VAL:HG22	52:C1:44:GLN:HB2	1.90	0.53
25:CA:1060:U:H5'	25:CA:1062:G:H4'	1.91	0.53
25:CA:1829:A:H2'	25:CA:1830:C:H5'	1.91	0.53
25:CA:2215:C:O2'	25:CA:2216:G:H5'	2.09	0.53
25:CA:2499:C:OP1	60:CA:3694:HOH:O	2.19	0.53
25:CA:2665:A:C2	25:CA:2666:C:C5	2.97	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2766:A:H2'	25:CA:2766:A:N3	2.24	0.53
25:CA:2888:C:H2'	25:CA:2889:C:H6	1.72	0.53
25:CA:910:A:C6	25:CA:911:A:C6	2.97	0.53
30:CF:56:LEU:HD12	30:CF:64:PRO:CB	2.39	0.53
31:CG:117:PRO:O	31:CG:118:ALA:C	2.47	0.53
31:CG:142:GLN:O	31:CG:145:ALA:HB3	2.10	0.53
33:CI:18:ASN:HD21	33:CI:27:LEU:HD11	1.72	0.53
33:CI:56:VAL:HG23	33:CI:70:THR:HA	1.90	0.53
34:CJ:27:ARG:HG2	34:CJ:27:ARG:HH11	1.74	0.53
38:CN:38:LEU:HB3	38:CN:39:PRO:HD3	1.90	0.53
41:CQ:86:SER:HB3	42:CR:51:VAL:HA	1.91	0.53
44:CT:30:ILE:HD11	44:CT:32:LEU:HD21	1.91	0.53
52:D1:44:GLN:NE2	52:D1:44:GLN:HA	2.23	0.53
25:DA:1053:C:C2	25:DA:1107:G:C2	2.97	0.53
25:DA:1539:U:C2	25:DA:1540:G:C8	2.97	0.53
25:DA:1832:C:N4	25:DA:1833:C:C4	2.77	0.53
25:DA:1934:C:H4'	25:DA:1974:C:O3'	2.09	0.53
25:DA:2207:C:C2	25:DA:2208:C:H5	2.27	0.53
25:DA:2210:U:H4'	25:DA:2211:A:H5'	1.90	0.53
25:DA:2211:A:N3	25:DA:2211:A:H5''	2.24	0.53
25:DA:2771:C:H2'	25:DA:2772:C:C6	2.44	0.53
25:DA:58:G:OP1	44:DT:78:SER:OG	2.26	0.53
56:DB:10:G:N7	56:DB:11:C:C5	2.76	0.53
56:DB:28:C:P	39:DO:31:THR:HG21	2.49	0.53
27:DC:16:VAL:CB	27:DC:203:VAL:HG22	2.39	0.53
29:DE:145:ASP:HB3	29:DE:184:ASP:HB2	1.91	0.53
31:DG:108:PHE:HE2	31:DG:151:ARG:CZ	2.22	0.53
33:DI:79:LEU:HD11	33:DI:132:ALA:CB	2.39	0.53
41:DQ:65:ASN:O	41:DQ:69:ARG:HG3	2.08	0.53
45:DU:101:THR:HG22	45:DU:102:ILE:N	2.24	0.53
25:DA:480:A:H5''	45:DU:43:LYS:CD	2.38	0.53
46:DV:20:LEU:CD2	46:DV:26:PHE:CA	2.87	0.53
46:DV:26:PHE:CD2	46:DV:44:HIS:HA	2.44	0.53
49:DY:13:GLU:O	49:DY:15:ASN:N	2.41	0.53
49:DY:32:ALA:O	49:DY:35:GLY:N	2.42	0.53
1:AA:1216:A:N3	1:AA:1217:C:C5	2.77	0.52
1:AA:1523:G:OP1	11:AK:124:LYS:HE2	2.10	0.52
1:AA:379:C:C2'	1:AA:380:G:H5'	2.39	0.52
1:AA:513:C:O2'	1:AA:514:C:C5'	2.58	0.52
1:AA:542:G:C2	1:AA:543:U:C4	2.96	0.52
1:AA:895:G:H2'	1:AA:896:C:C6	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:206:ILE:HG12	2:AB:207:ARG:N	2.23	0.52
2:AB:66:ILE:O	2:AB:67:LEU:HB2	2.08	0.52
2:AB:86:CYS:HB2	2:AB:88:GLN:NE2	2.24	0.52
4:AD:40:HIS:HB3	4:AD:43:ARG:HG3	1.90	0.52
7:AG:122:GLU:O	7:AG:123:LEU:C	2.48	0.52
10:AJ:16:ARG:O	10:AJ:16:ARG:HG3	2.09	0.52
11:AK:51:PHE:CA	11:AK:55:ARG:HB3	2.39	0.52
11:AK:74:LYS:C	11:AK:75:GLU:OE1	2.47	0.52
12:AL:36:VAL:HG12	12:AL:36:VAL:O	2.09	0.52
12:AL:6:LEU:HB3	17:AQ:33:TYR:CE1	2.45	0.52
12:AL:49:ARG:NH1	12:AL:88:ASP:OD1	2.41	0.52
17:AQ:13:SER:CB	17:AQ:16:MET:HE2	2.39	0.52
1:AA:1312:G:N7	19:AS:2:ARG:N	2.57	0.52
20:AT:65:LEU:O	20:AT:65:LEU:HD12	2.09	0.52
1:BA:1028:C:C5	1:BA:1034:G:C2	2.97	0.52
1:BA:1160:G:O2'	1:BA:1161:C:O5'	2.27	0.52
1:BA:1170:A:H2'	1:BA:1171:A:O4'	2.09	0.52
1:BA:1431:A:C5	1:BA:1432:G:C6	2.97	0.52
1:BA:1472:U:C2'	1:BA:1473:G:O5'	2.57	0.52
1:BA:188:C:O2	1:BA:189:A:N9	2.41	0.52
1:BA:211:G:N2	1:BA:212:G:H1'	2.24	0.52
1:BA:438:U:H5'	4:BD:119:HIS:CD2	2.43	0.52
1:BA:466:A:H5''	1:BA:467:U:OP2	2.09	0.52
1:BA:593:U:H2'	1:BA:594:U:H6	1.74	0.52
2:BB:93:HIS:CG	2:BB:94:ARG:NH2	2.77	0.52
4:BD:3:TYR:C	4:BD:3:TYR:CD1	2.82	0.52
9:BI:28:VAL:CB	9:BI:63:TYR:HD2	2.22	0.52
11:BK:126:ARG:N	21:BU:33:ARG:CZ	2.72	0.52
14:BN:23:ARG:O	14:BN:26:LEU:HB2	2.09	0.52
16:BP:16:PHE:CE2	16:BP:40:ASN:HB2	2.44	0.52
18:BR:49:LYS:HA	18:BR:52:ARG:NH1	2.24	0.52
21:BU:10:PRO:C	21:BU:11:PHE:CD1	2.82	0.52
51:C0:54:ILE:O	51:C0:55:ALA:HB3	2.09	0.52
55:C4:16:ILE:HG22	55:C4:16:ILE:O	2.09	0.52
25:CA:1028:A:N6	25:CA:1125:G:H2'	2.24	0.52
25:CA:1180:U:H2'	25:CA:1181:U:O5'	2.08	0.52
25:CA:120:U:H5''	25:CA:122:G:OP2	2.08	0.52
25:CA:1775:U:P	60:CA:3450:HOH:O	2.67	0.52
25:CA:1820:U:OP1	27:CC:176:ARG:NH2	2.42	0.52
26:CB:102:G:O2'	26:CB:103:U:H5'	2.09	0.52
31:CG:8:VAL:HG13	31:CG:49:LEU:HB2	1.87	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:55:ARG:CG	37:CM:55:ARG:NH2	2.66	0.52
38:CN:13:ASN:C	38:CN:13:ASN:ND2	2.61	0.52
42:CR:39:LEU:O	42:CR:40:MET:CB	2.56	0.52
42:CR:62:GLU:O	42:CR:62:GLU:HG2	2.08	0.52
44:CT:30:ILE:HG22	44:CT:85:VAL:O	2.09	0.52
54:D3:29:ARG:O	54:D3:30:HIS:HB3	2.09	0.52
55:D4:36:ARG:O	55:D4:37:GLN:O	2.25	0.52
25:DA:1167:C:H2'	25:DA:1168:G:C5'	2.39	0.52
25:DA:1503:A:C6	25:DA:1504:A:C5	2.96	0.52
25:DA:1701:A:C2'	25:DA:1702:G:H5'	2.39	0.52
25:DA:190:A:H2'	25:DA:191:A:O4'	2.08	0.52
25:DA:2303:G:H2'	25:DA:2304:G:H5'	1.90	0.52
25:DA:55:G:C2	25:DA:56:A:C8	2.98	0.52
56:DB:25:U:C5	56:DB:26:C:C5	2.97	0.52
27:DC:175:LEU:HD11	27:DC:181:ARG:HD2	1.91	0.52
29:DE:1:MET:HG3	29:DE:14:VAL:CG2	2.39	0.52
32:DH:15:LEU:HD22	32:DH:15:LEU:N	2.24	0.52
38:DN:79:LEU:HA	38:DN:83:LEU:HB2	1.90	0.52
40:DP:3:ILE:HD12	40:DP:3:ILE:H	1.74	0.52
41:DQ:104:ALA:O	41:DQ:107:ALA:HB3	2.09	0.52
43:DS:59:GLU:CD	43:DS:66:ILE:HD11	2.29	0.52
44:DT:44:LYS:HE3	44:DT:55:VAL:HG12	1.91	0.52
45:DU:36:GLU:HG3	45:DU:36:GLU:O	2.09	0.52
25:DA:484:C:OP1	45:DU:47:PRO:HG3	2.09	0.52
45:DU:4:ILE:HD13	45:DU:66:VAL:HG13	1.89	0.52
25:DA:381:G:OP1	48:DX:17:ARG:NH2	2.42	0.52
48:DX:73:ARG:O	48:DX:73:ARG:HG3	2.09	0.52
1:AA:1037:C:N3	1:AA:1038:C:C5	2.77	0.52
1:AA:11:G:C6	1:AA:12:U:C4	2.97	0.52
1:AA:1259:C:H6	1:AA:1259:C:O5'	1.91	0.52
1:AA:1308:U:O3'	13:AM:90:HIS:CE1	2.62	0.52
1:AA:16:A:H2'	1:AA:17:U:H5'	1.90	0.52
1:AA:452:A:C8	1:AA:452:A:C3'	2.89	0.52
1:AA:452:A:C8	1:AA:453:G:O4'	2.62	0.52
2:AB:185:ILE:CG1	2:AB:185:ILE:O	2.57	0.52
4:AD:154:VAL:O	4:AD:158:LEU:HG	2.08	0.52
4:AD:159:GLU:HG2	4:AD:160:LEU:N	2.24	0.52
4:AD:87:GLU:HG2	4:AD:187:ARG:HD3	1.89	0.52
4:AD:57:LYS:N	4:AD:199:ILE:HG22	2.24	0.52
5:AE:105:ILE:HG13	5:AE:105:ILE:O	2.08	0.52
5:AE:59:ILE:O	5:AE:63:MET:HG2	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:93:VAL:HG12	5:AE:138:ALA:HB1	1.92	0.52
7:AG:49:LEU:HD11	7:AG:60:ALA:CB	2.38	0.52
8:AH:15:ASN:O	8:AH:18:ALA:N	2.42	0.52
5:AE:149:PRO:HA	8:AH:98:LEU:HD11	1.91	0.52
13:AM:2:ARG:HA	13:AM:8:ILE:HG12	1.91	0.52
19:AS:33:TRP:CZ2	19:AS:56:HIS:CE1	2.97	0.52
20:AT:27:MET:O	20:AT:31:ILE:HD12	2.10	0.52
21:AU:25:ALA:O	21:AU:26:GLY:O	2.28	0.52
22:AV:44:G:N3	22:AV:45:U:N3	2.56	0.52
22:AV:61:C:O2'	22:AV:62:C:H5'	2.08	0.52
1:BA:1084:G:C5	1:BA:1085:U:C4	2.97	0.52
1:BA:1101:A:H4'	1:BA:1102:A:O5'	2.10	0.52
1:BA:1102:A:H2'	1:BA:1103:C:C6	2.44	0.52
1:BA:951:G:N3	1:BA:1231:G:C2	2.77	0.52
1:BA:183:C:O2'	1:BA:184:G:O5'	2.19	0.52
1:BA:201:G:O2'	1:BA:202:G:H5'	2.09	0.52
1:BA:255:G:C6	1:BA:256:U:C4	2.98	0.52
1:BA:316:C:H2'	1:BA:317:U:H6	1.75	0.52
2:BB:120:SER:O	2:BB:125:PHE:HB3	2.10	0.52
2:BB:99:MET:HA	2:BB:106:VAL:CG2	2.39	0.52
3:BC:52:SER:HB2	3:BC:114:LEU:HG	1.90	0.52
1:BA:426:U:H5''	4:BD:36:ALA:HB1	1.91	0.52
4:BD:86:GLY:O	4:BD:89:LEU:HB3	2.09	0.52
5:BE:81:GLN:OE1	5:BE:148:SER:HA	2.08	0.52
6:BF:78:PHE:CD1	6:BF:87:SER:HB3	2.45	0.52
7:BG:50:ALA:CB	7:BG:57:GLU:OE2	2.57	0.52
7:BG:68:VAL:CG2	7:BG:99:ALA:HA	2.40	0.52
9:BI:127:SER:O	9:BI:128:LYS:C	2.47	0.52
13:BM:32:ILE:HD13	13:BM:58:GLU:CG	2.40	0.52
13:BM:80:MET:O	13:BM:81:ASP:C	2.48	0.52
14:BN:64:CYS:SG	14:BN:80:SER:HB2	2.49	0.52
15:BO:35:ILE:HD11	15:BO:59:VAL:N	2.25	0.52
17:BQ:16:MET:CG	17:BQ:19:SER:HB3	2.40	0.52
19:BS:10:ILE:HD11	19:BS:15:LEU:CA	2.39	0.52
20:BT:33:LYS:O	20:BT:36:ALA:HB3	2.08	0.52
25:CA:1893:C:C2'	25:CA:1894:C:H5'	2.38	0.52
25:CA:301:G:OP2	45:CU:81:ARG:NH1	2.41	0.52
25:CA:301:G:H1'	25:CA:302:C:C6	2.44	0.52
27:CC:219:VAL:O	27:CC:220:ARG:C	2.45	0.52
28:CD:57:ALA:O	28:CD:58:ASN:C	2.48	0.52
31:CG:86:LEU:HD11	31:CG:132:LEU:CD1	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:75:VAL:O	31:CG:79:THR:HB	2.09	0.52
33:CI:59:THR:HG22	33:CI:61:TYR:OH	2.09	0.52
25:CA:1141:U:OP2	34:CJ:65:THR:HG21	2.09	0.52
25:CA:1244:A:H5'	36:CL:8:PRO:HD2	1.92	0.52
40:CP:74:GLN:HA	40:CP:74:GLN:HE21	1.75	0.52
41:CQ:73:ILE:HG23	41:CQ:73:ILE:O	2.09	0.52
44:CT:2:ILE:HG22	44:CT:2:ILE:O	2.10	0.52
25:CA:309:A:H4'	45:CU:15:GLY:HA2	1.91	0.52
46:CV:92:VAL:O	46:CV:93:ARG:C	2.47	0.52
25:DA:1430:G:H2'	25:DA:1431:A:O4'	2.08	0.52
25:DA:1448:G:C4	25:DA:1464:G:N2	2.78	0.52
25:DA:1562:U:O2	25:DA:1563:U:C1'	2.56	0.52
25:DA:1631:G:N2	25:DA:1634:A:OP2	2.40	0.52
25:DA:1748:C:O2'	25:DA:1749:A:H5'	2.09	0.52
25:DA:2327:A:H2'	25:DA:2328:A:C8	2.44	0.52
25:DA:2704:C:H3'	25:DA:2705:A:C8	2.44	0.52
25:DA:2738:A:C2	25:DA:2739:U:C1'	2.93	0.52
25:DA:2898:U:H2'	25:DA:2899:A:C8	2.44	0.52
25:DA:545:U:O2	25:DA:545:U:OP2	2.27	0.52
25:DA:58:G:C2'	25:DA:59:U:H5'	2.38	0.52
27:DC:9:SER:O	27:DC:12:ARG:HB3	2.08	0.52
27:DC:74:PRO:HB2	27:DC:96:LYS:CG	2.40	0.52
28:DD:101:PHE:CD1	28:DD:104:VAL:HG11	2.44	0.52
28:DD:11:MET:HG2	28:DD:24:VAL:O	2.08	0.52
29:DE:3:LEU:HD11	29:DE:14:VAL:HG21	1.90	0.52
32:DH:59:ALA:C	32:DH:62:LEU:HD12	2.30	0.52
33:DI:53:PRO:O	33:DI:74:PRO:CD	2.56	0.52
34:DJ:78:THR:HG21	34:DJ:85:LYS:HE2	1.91	0.52
25:DA:910:A:C5	37:DM:13:HIS:NE2	2.77	0.52
39:DO:27:VAL:HG21	39:DO:40:ILE:HD12	1.92	0.52
48:DX:39:VAL:HG22	48:DX:44:ARG:O	2.08	0.52
49:DY:5:GLU:HA	49:DY:8:GLU:OE1	2.09	0.52
50:DZ:3:THR:CG2	50:DZ:36:GLU:OE1	2.57	0.52
1:AA:1215:G:N2	1:AA:1216:A:C1'	2.72	0.52
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.44	0.52
1:AA:949:A:C2	1:AA:1233:G:N3	2.78	0.52
1:AA:1425:U:C2'	1:AA:1426:G:H5'	2.38	0.52
1:AA:215:C:H2'	1:AA:216:U:O4'	2.09	0.52
1:AA:224:U:H2'	1:AA:225:C:C6	2.42	0.52
1:AA:259:G:N2	1:AA:260:G:H1'	2.23	0.52
1:AA:44:A:H2'	1:AA:45:G:H5'	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:459:A:H2'	1:AA:460:A:H1'	1.91	0.52
1:AA:465:A:H2'	1:AA:466:A:C8	2.45	0.52
1:AA:455:G:N2	1:AA:478:A:C2	2.77	0.52
1:AA:71:A:O2'	1:AA:72:A:H5''	2.09	0.52
3:AC:156:LEU:HD12	3:AC:163:ARG:HB2	1.92	0.52
3:AC:141:MET:HE1	3:AC:170:GLY:HA3	1.92	0.52
3:AC:23:ALA:HB2	3:AC:31:ASN:ND2	2.24	0.52
4:AD:58:GLN:HA	4:AD:58:GLN:OE1	2.10	0.52
5:AE:104:ILE:HD12	5:AE:122:VAL:CG2	2.39	0.52
5:AE:152:VAL:CG2	5:AE:153:ALA:N	2.72	0.52
5:AE:154:ALA:O	5:AE:155:LYS:C	2.47	0.52
7:AG:21:LEU:HD11	7:AG:61:PHE:HZ	1.73	0.52
9:AI:34:LEU:HD21	9:AI:47:VAL:HG21	1.91	0.52
10:AJ:59:LYS:CE	10:AJ:59:LYS:N	2.72	0.52
12:AL:101:LEU:N	12:AL:101:LEU:CD1	2.73	0.52
13:AM:76:ILE:HG23	13:AM:80:MET:CE	2.39	0.52
15:AO:37:HIS:CD2	15:AO:37:HIS:C	2.83	0.52
16:AP:39:PHE:CG	16:AP:74:LEU:HD11	2.44	0.52
18:AR:20:ILE:HD12	18:AR:21:ASP:N	2.25	0.52
1:BA:1126:U:C6	1:BA:1281:C:C5	2.98	0.52
1:BA:1326:U:H2'	1:BA:1327:C:H6	1.74	0.52
1:BA:1238:A:OP1	1:BA:1336:C:H5	1.93	0.52
1:BA:1441:A:C8	1:BA:1442:G:C8	2.97	0.52
1:BA:211:G:O2'	1:BA:212:G:H4'	2.09	0.52
1:BA:261:U:OP2	20:BT:73:ARG:NH2	2.42	0.52
1:BA:489:C:O2	1:BA:490:C:C6	2.63	0.52
1:BA:600:A:N1	1:BA:601:G:C5	2.77	0.52
1:BA:931:C:H2'	1:BA:932:C:C6	2.44	0.52
1:BA:994:A:C6	1:BA:995:C:C5	2.97	0.52
2:BB:130:LYS:HA	2:BB:133:ALA:CB	2.38	0.52
3:BC:10:ARG:NH2	3:BC:181:ILE:HG13	2.25	0.52
3:BC:170:GLY:O	3:BC:171:ARG:HB2	2.10	0.52
3:BC:22:PHE:CG	3:BC:23:ALA:N	2.77	0.52
7:BG:131:GLY:H	7:BG:134:VAL:HG11	1.73	0.52
20:BT:36:ALA:O	20:BT:39:GLU:N	2.42	0.52
25:CA:1056:G:C2	25:CA:1102:C:C5	2.97	0.52
25:CA:1121:C:H2'	25:CA:1122:G:O5'	2.09	0.52
25:CA:1180:U:C2'	25:CA:1181:U:O5'	2.57	0.52
25:CA:1372:U:C2'	25:CA:1373:A:H5'	2.39	0.52
25:CA:1917:U:O4	25:CA:1918:A:C6	2.62	0.52
25:CA:2298:A:C4	25:CA:2321:U:C5	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2805:C:C4	25:CA:2806:C:C4	2.97	0.52
25:CA:880:G:C2	25:CA:881:G:C8	2.97	0.52
27:CC:166:ARG:CZ	27:CC:166:ARG:HB2	2.39	0.52
27:CC:3:VAL:HB	27:CC:17:LYS:HB2	1.90	0.52
28:CD:99:GLU:HG2	28:CD:182:ALA:HB2	1.91	0.52
33:CI:96:LYS:HE3	33:CI:96:LYS:HA	1.90	0.52
39:CO:66:GLY:CA	39:CO:102:ARG:NH2	2.73	0.52
44:CT:40:LYS:HE2	44:CT:60:THR:HG23	1.91	0.52
25:DA:1045:C:C4'	25:DA:1046:A:H5'	2.38	0.52
25:DA:104:A:C6	25:DA:105:C:C4	2.96	0.52
25:DA:1215:G:C2'	25:DA:1216:G:H5'	2.40	0.52
25:DA:1275:A:N1	25:DA:1295:C:O2'	2.33	0.52
25:DA:2230:G:C5	25:DA:2231:U:C5	2.98	0.52
25:DA:279:A:N7	25:DA:280:U:C5	2.78	0.52
25:DA:2862:G:H2'	25:DA:2863:C:C6	2.45	0.52
28:DD:133:THR:HG23	28:DD:134:HIS:N	2.25	0.52
29:DE:158:PHE:HD1	29:DE:159:LEU:N	2.07	0.52
31:DG:1:SER:C	31:DG:3:VAL:N	2.60	0.52
32:DH:3:VAL:N	32:DH:39:ALA:HB2	2.24	0.52
33:DI:80:LYS:HA	33:DI:85:ILE:O	2.09	0.52
46:DV:58:SER:O	46:DV:59:GLU:O	2.27	0.52
1:AA:1182:G:C4'	1:AA:1183:U:H5'	2.39	0.52
1:AA:138:G:O2'	1:AA:139:A:H5'	2.09	0.52
1:AA:1533:C:C5'	1:AA:1534:A:OP1	2.58	0.52
1:AA:182:A:C8	1:AA:184:G:C5	2.98	0.52
1:AA:198:G:N3	1:AA:199:A:C8	2.77	0.52
1:AA:410:G:H5''	1:AA:411:A:OP1	2.06	0.52
1:AA:652:U:O2'	1:AA:653:U:P	2.67	0.52
2:AB:26:MET:HE2	2:AB:29:PHE:CD2	2.45	0.52
4:AD:187:ARG:NH2	4:AD:191:SER:OG	2.43	0.52
4:AD:191:SER:OG	4:AD:192:ALA:N	2.42	0.52
5:AE:119:VAL:HG21	5:AE:122:VAL:CG1	2.40	0.52
10:AJ:56:HIS:O	10:AJ:57:VAL:O	2.27	0.52
13:AM:82:LEU:HD23	13:AM:82:LEU:N	2.25	0.52
1:BA:1118:U:H1'	1:BA:1179:A:C5	2.44	0.52
1:BA:1327:C:H2'	1:BA:1328:C:C6	2.45	0.52
1:BA:150:U:C5	1:BA:170:U:C5	2.97	0.52
1:BA:328:C:H4'	1:BA:329:A:C5'	2.39	0.52
1:BA:381:C:N4	1:BA:382:A:C6	2.77	0.52
1:BA:53:A:N1	1:BA:359:G:C6	2.78	0.52
2:BB:47:PRO:HA	2:BB:50:ASN:ND2	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:66:ILE:HG21	2:BB:68:PHE:CE2	2.44	0.52
7:BG:11:ILE:CD1	7:BG:23:ALA:HB1	2.40	0.52
10:BJ:29:ALA:CB	10:BJ:76:ILE:HD13	2.38	0.52
10:BJ:48:ARG:HA	10:BJ:66:GLU:HB3	1.91	0.52
10:BJ:36:VAL:CG2	10:BJ:76:ILE:HG23	2.39	0.52
10:BJ:80:THR:OG1	10:BJ:83:THR:CG2	2.58	0.52
13:BM:90:HIS:HA	13:BM:108:ARG:NH2	2.24	0.52
16:BP:17:TYR:HE1	16:BP:41:PRO:HG3	1.75	0.52
17:BQ:20:ILE:HG23	17:BQ:22:VAL:HG22	1.91	0.52
20:BT:44:ALA:O	20:BT:47:GLN:N	2.42	0.52
21:BU:36:PHE:CG	21:BU:40:PRO:HG3	2.45	0.52
25:CA:1073:A:H2'	25:CA:1074:G:H5''	1.91	0.52
25:CA:1265:A:O4'	25:CA:1267:U:C6	2.63	0.52
25:CA:1660:G:N2	25:CA:2001:C:C2	2.78	0.52
25:CA:2183:A:H2'	25:CA:2184:A:O4'	2.09	0.52
25:CA:84:A:N1	25:CA:103:A:C5	2.78	0.52
26:CB:47:C:OP2	39:CO:3:LYS:HE3	2.08	0.52
35:CK:109:SER:O	35:CK:111:LYS:N	2.42	0.52
41:CQ:29:ARG:NE	51:C0:9:ARG:HH11	2.07	0.52
47:CW:45:ALA:O	47:CW:46:ASN:HB2	2.10	0.52
25:DA:1324:G:N2	25:DA:1331:G:C4	2.76	0.52
25:DA:1336:A:H2'	25:DA:1337:G:O5'	2.10	0.52
25:DA:1441:G:C2	25:DA:1551:A:C2	2.97	0.52
25:DA:1663:G:C6	25:DA:1992:G:N7	2.78	0.52
25:DA:1814:G:C6	25:DA:1815:A:C6	2.98	0.52
25:DA:2119:A:H61	25:DA:2167:U:H1'	1.75	0.52
25:DA:2334:U:H4'	25:DA:2335:A:OP2	2.10	0.52
25:DA:644:A:N1	25:DA:2369:A:H1'	2.25	0.52
25:DA:2373:G:O2'	25:DA:2374:C:H5'	2.08	0.52
25:DA:2378:A:H2'	25:DA:2379:G:O5'	2.10	0.52
25:DA:2820:A:C2'	25:DA:2821:A:OP1	2.56	0.52
25:DA:863:A:H2'	25:DA:864:G:O5'	2.09	0.52
25:DA:905:A:C2'	25:DA:906:U:H5'	2.39	0.52
32:DH:58:LEU:HA	32:DH:61:VAL:HG23	1.91	0.52
33:DI:89:SER:CB	33:DI:92:PRO:HG3	2.40	0.52
38:DN:32:GLU:HB3	38:DN:115:LEU:HD12	1.91	0.52
38:DN:118:ARG:O	38:DN:119:SER:CB	2.57	0.52
41:DQ:59:LEU:O	41:DQ:60:TRP:C	2.45	0.52
25:DA:300:A:OP2	45:DU:96:LYS:HD2	2.10	0.52
1:AA:103:U:C2	1:AA:104:G:C8	2.98	0.52
1:AA:1216:A:N1	1:AA:1217:C:C4	2.77	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1239:A:H62	1:AA:1299:A:N6	2.07	0.52
1:AA:145:G:N2	1:AA:146:G:C4	2.77	0.52
1:AA:1503:A:C2	1:AA:1531:A:H2	2.26	0.52
1:AA:237:G:H2'	1:AA:238:A:C8	2.44	0.52
1:AA:257:G:C2	1:AA:258:G:C8	2.98	0.52
1:AA:974:A:H4'	1:AA:975:A:H3'	1.92	0.52
2:AB:49:PHE:CA	2:AB:212:TYR:OH	2.56	0.52
3:AC:70:ALA:HB2	3:AC:105:VAL:HB	1.90	0.52
3:AC:41:TYR:CE1	3:AC:89:VAL:HG21	2.44	0.52
4:AD:12:ARG:HD2	4:AD:33:ILE:HA	1.92	0.52
4:AD:176:LYS:CB	4:AD:178:GLU:HG2	2.39	0.52
5:AE:49:TYR:CE2	5:AE:133:ILE:HD11	2.45	0.52
6:AF:3:HIS:N	6:AF:92:THR:HG23	2.25	0.52
7:AG:144:ALA:O	7:AG:145:GLU:CB	2.55	0.52
9:AI:56:MET:CE	9:AI:57:VAL:H	2.22	0.52
9:AI:6:TYR:HE2	9:AI:17:ARG:CB	2.23	0.52
10:AJ:8:ILE:CD1	10:AJ:74:VAL:HG11	2.40	0.52
11:AK:82:GLU:HG3	11:AK:108:ASN:ND2	2.24	0.52
1:BA:121:U:C4'	1:BA:121:U:OP2	2.57	0.52
1:BA:1355:G:C5	1:BA:1368:A:C2	2.97	0.52
1:BA:1526:G:P	21:BU:38:GLU:HB2	2.49	0.52
1:BA:158:G:C5	1:BA:164:G:C6	2.98	0.52
1:BA:42:G:H2'	1:BA:43:C:C6	2.45	0.52
1:BA:465:A:H2'	1:BA:466:A:C8	2.44	0.52
1:BA:58:C:O2'	1:BA:59:A:H5'	2.10	0.52
1:BA:699:C:H2'	1:BA:700:G:H5'	1.92	0.52
2:BB:32:GLY:HA2	2:BB:39:ILE:H	1.73	0.52
2:BB:67:LEU:HD21	2:BB:91:VAL:HG23	1.92	0.52
4:BD:172:VAL:HG13	4:BD:173:ASP:N	2.24	0.52
4:BD:75:TYR:C	4:BD:75:TYR:CD1	2.82	0.52
6:BF:30:THR:HA	6:BF:34:GLY:O	2.10	0.52
6:BF:3:HIS:HA	6:BF:65:GLU:HA	1.92	0.52
7:BG:119:LEU:O	7:BG:123:LEU:HG	2.10	0.52
7:BG:64:ALA:HB1	7:BG:126:ALA:HB3	1.89	0.52
7:BG:92:PRO:HA	7:BG:95:ARG:HB2	1.92	0.52
10:BJ:27:GLU:HB2	10:BJ:30:LYS:HE3	1.91	0.52
11:BK:96:ILE:O	11:BK:99:LEU:HB2	2.10	0.52
14:BN:34:ASN:O	14:BN:35:ALA:HB2	2.09	0.52
17:BQ:35:LYS:HG3	17:BQ:37:ILE:CD1	2.39	0.52
25:CA:1301:A:H2'	25:CA:1301:A:N3	2.25	0.52
25:CA:2851:A:C5	25:CA:2852:G:C5	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:479:A:H4'	25:CA:480:A:OP1	2.09	0.52
25:CA:978:G:O2'	25:CA:979:A:H5'	2.08	0.52
27:CC:203:VAL:O	27:CC:203:VAL:HG23	2.09	0.52
27:CC:235:GLU:HA	27:CC:235:GLU:OE1	2.09	0.52
28:CD:187:LEU:C	28:CD:188:LEU:HD23	2.30	0.52
30:CF:132:ARG:HA	30:CF:150:GLY:HA2	1.91	0.52
38:CN:21:PHE:CD2	38:CN:24:MET:CE	2.93	0.52
39:CO:54:VAL:CG2	39:CO:54:VAL:O	2.58	0.52
43:CS:89:ALA:O	43:CS:90:LYS:HB2	2.09	0.52
25:DA:1079:C:C5	25:DA:1080:A:N7	2.77	0.52
25:DA:1084:A:H2'	25:DA:1085:A:O4'	2.09	0.52
25:DA:1176:U:C5	25:DA:1177:G:C5	2.98	0.52
25:DA:1220:G:C2'	25:DA:1221:C:O5'	2.58	0.52
25:DA:1554:U:H4'	25:DA:1555:G:OP2	2.09	0.52
25:DA:1571:A:O5'	25:DA:1571:A:H8	1.92	0.52
25:DA:1682:G:C8	25:DA:1757:A:C2	2.97	0.52
25:DA:1923:U:H2'	25:DA:1924:C:H6	1.73	0.52
25:DA:2080:A:H2'	25:DA:2081:U:C6	2.44	0.52
25:DA:2133:G:C2	25:DA:2158:A:C6	2.98	0.52
25:DA:2185:U:H2'	25:DA:2186:G:O4'	2.09	0.52
25:DA:2193:G:H2'	25:DA:2194:U:H6	1.72	0.52
25:DA:224:U:H2'	25:DA:225:C:O4'	2.09	0.52
25:DA:2557:G:H2'	25:DA:2558:C:C6	2.44	0.52
25:DA:1462:C:O2'	25:DA:2702:G:H1'	2.10	0.52
25:DA:582:A:C6	25:DA:583:G:C6	2.98	0.52
30:DF:32:LYS:O	30:DF:33:ILE:HG13	2.09	0.52
32:DH:72:ILE:HG21	32:DH:140:ALA:CB	2.39	0.52
33:DI:19:PRO:HG2	33:DI:23:VAL:CG2	2.40	0.52
33:DI:60:VAL:CG2	33:DI:66:PHE:HB3	2.39	0.52
34:DJ:28:LEU:HD12	34:DJ:28:LEU:O	2.08	0.52
39:DO:28:VAL:HG23	39:DO:36:TYR:O	2.09	0.52
1:AA:1041:G:C6	1:AA:1042:A:N6	2.77	0.52
1:AA:1081:A:C2	1:AA:1082:A:C4	2.97	0.52
1:AA:1330:U:H2'	1:AA:1331:G:C5'	2.37	0.52
1:AA:161:A:H2'	1:AA:162:A:C8	2.45	0.52
1:AA:437:U:C4	1:AA:438:U:H5	2.28	0.52
1:AA:505:G:H5'	1:AA:534:U:H2'	1.90	0.52
2:AB:14:HIS:HD2	2:AB:15:PHE:N	2.08	0.52
2:AB:221:ARG:HG2	2:AB:221:ARG:HH11	1.74	0.52
2:AB:75:ALA:O	2:AB:76:SER:C	2.48	0.52
4:AD:151:GLN:O	4:AD:152:SER:C	2.47	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:193:ASP:C	4:AD:194:ILE:HG22	2.29	0.52
8:AH:48:PHE:CD1	8:AH:48:PHE:N	2.74	0.52
8:AH:87:ARG:O	8:AH:121:GLY:HA3	2.09	0.52
9:AI:126:PHE:C	9:AI:126:PHE:CD2	2.82	0.52
10:AJ:65:TYR:HA	14:AN:99:ALA:H	1.74	0.52
12:AL:42:LYS:O	12:AL:43:LYS:C	2.47	0.52
12:AL:23:LEU:HB2	12:AL:58:ASN:ND2	2.25	0.52
13:AM:49:GLU:O	13:AM:50:GLY:C	2.47	0.52
14:AN:6:LYS:H	14:AN:6:LYS:HD3	1.73	0.52
19:AS:39:ILE:HD11	19:AS:70:LEU:HD22	1.89	0.52
22:AV:59:U:C6	22:AV:60:U:C5	2.97	0.52
1:BA:942:G:C2	1:BA:1342:C:C2	2.97	0.52
1:BA:251:G:C6	1:BA:266:G:O6	2.63	0.52
1:BA:33:A:H2'	1:BA:34:C:C6	2.45	0.52
1:BA:786:G:C2'	1:BA:787:A:O5'	2.58	0.52
1:BA:96:U:H2'	1:BA:97:G:C8	2.45	0.52
2:BB:153:MET:HE2	2:BB:157:PRO:HG3	1.92	0.52
4:BD:99:ASN:HD22	4:BD:100:VAL:N	2.07	0.52
5:BE:140:ILE:HD12	5:BE:140:ILE:H	1.74	0.52
8:BH:63:LYS:HE2	8:BH:70:VAL:HG21	1.92	0.52
1:BA:1372:U:OP2	9:BI:12:LYS:NZ	2.42	0.52
9:BI:37:TYR:O	9:BI:38:PHE:HB3	2.10	0.52
9:BI:51:LEU:HD13	9:BI:56:MET:HG2	1.92	0.52
10:BJ:26:VAL:HG12	10:BJ:27:GLU:N	2.24	0.52
10:BJ:56:HIS:O	10:BJ:57:VAL:O	2.27	0.52
10:BJ:73:LEU:CD2	10:BJ:75:ASP:HB2	2.40	0.52
12:BL:73:LEU:H	12:BL:73:LEU:CD2	2.23	0.52
15:BO:18:ALA:O	15:BO:19:ASN:CB	2.57	0.52
18:BR:33:THR:CG2	18:BR:35:SER:HB2	2.39	0.52
25:CA:1901:A:N3	25:CA:1901:A:H2'	2.25	0.52
25:CA:2114:A:C2	25:CA:2166:U:H2'	2.45	0.52
25:CA:2174:C:O2	25:CA:2175:C:C6	2.63	0.52
25:CA:638:G:C5	25:CA:639:U:C5	2.98	0.52
25:CA:192:C:O2'	25:CA:802:A:N3	2.35	0.52
26:CB:34:A:O2'	26:CB:35:C:H5''	2.09	0.52
26:CB:36:C:C5'	26:CB:37:C:OP2	2.58	0.52
28:CD:13:ARG:HD2	28:CD:15:PHE:CZ	2.45	0.52
32:CH:72:ILE:HG23	32:CH:141:LYS:O	2.09	0.52
34:CJ:81:ILE:HG23	34:CJ:82:GLY:H	1.75	0.52
37:CM:55:ARG:HG3	37:CM:55:ARG:NH2	2.25	0.52
50:CZ:43:ILE:O	50:CZ:47:ILE:HD12	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:D3:10:ALA:O	54:D3:12:ARG:N	2.42	0.52
25:DA:1019:U:O2'	25:DA:1021:A:N7	2.43	0.52
25:DA:1097:U:C6	25:DA:1098:A:H1'	2.44	0.52
25:DA:1410:G:C2	25:DA:1593:A:N1	2.77	0.52
25:DA:1545:A:H2'	25:DA:1546:G:H5'	1.92	0.52
25:DA:1746:A:C2'	25:DA:1747:U:H6	2.20	0.52
1:BA:1494:G:N2	25:DA:1912:A:N3	2.58	0.52
25:DA:2079:U:O3'	48:DX:20:ALA:HB2	2.09	0.52
25:DA:2127:G:O2'	25:DA:2173:A:C2	2.61	0.52
25:DA:2321:U:H5''	25:DA:2322:A:OP2	2.10	0.52
25:DA:2414:G:C4	25:DA:2415:G:C8	2.97	0.52
25:DA:2419:U:H5	60:DA:3672:HOH:O	1.92	0.52
25:DA:246:C:C2'	25:DA:247:G:H5'	2.39	0.52
25:DA:2819:G:C6	25:DA:2821:A:C2	2.98	0.52
25:DA:2822:G:H2'	25:DA:2823:A:H5''	1.92	0.52
25:DA:322:A:C5	25:DA:340:A:C2	2.97	0.52
25:DA:396:G:C6	25:DA:397:U:C4	2.97	0.52
25:DA:60:G:C2	25:DA:74:A:C2	2.98	0.52
25:DA:947:A:O2'	25:DA:984:A:C2	2.47	0.52
27:DC:16:VAL:HG23	27:DC:203:VAL:HG21	1.91	0.52
29:DE:194:LYS:O	29:DE:197:GLU:N	2.43	0.52
30:DF:4:HIS:O	30:DF:8:LYS:HG3	2.09	0.52
35:DK:104:THR:HA	35:DK:122:VAL:HG12	1.92	0.52
44:DT:68:LYS:O	44:DT:74:ILE:HB	2.10	0.52
48:DX:10:ARG:HB3	48:DX:11:PRO:HD2	1.92	0.52
1:AA:1133:G:C5	1:AA:1134:G:N7	2.77	0.52
1:AA:1233:G:C5	1:AA:1234:C:C5	2.98	0.52
1:AA:439:U:H2'	1:AA:440:C:O5'	2.10	0.52
1:AA:634:C:O2'	1:AA:635:A:H5'	2.10	0.52
1:AA:63:C:C2'	1:AA:64:G:H5'	2.40	0.52
1:AA:722:G:H3'	1:AA:722:G:N3	2.24	0.52
3:AC:6:PRO:HB3	3:AC:174:LEU:HD13	1.91	0.52
7:AG:119:LEU:HD22	7:AG:123:LEU:CD2	2.38	0.52
8:AH:94:VAL:HG21	8:AH:100:ILE:O	2.10	0.52
11:AK:107:THR:CG2	11:AK:108:ASN:ND2	2.72	0.52
11:AK:109:ILE:HG21	21:AU:16:ARG:HE	1.74	0.52
11:AK:52:ARG:NE	11:AK:52:ARG:HA	2.25	0.52
12:AL:23:LEU:HG	12:AL:24:GLU:H	1.75	0.52
17:AQ:46:HIS:O	17:AQ:73:THR:HG23	2.08	0.52
1:AA:262:A:H4'	20:AT:68:LYS:HZ1	1.75	0.52
24:AY:155:ARG:O	24:AY:156:ARG:C	2.47	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1324:A:C5	1:BA:1325:C:C4	2.97	0.52
1:BA:143:A:H5'	1:BA:144:G:C5'	2.39	0.52
1:BA:1417:G:N2	1:BA:1484:C:C4	2.78	0.52
1:BA:268:U:H2'	1:BA:269:C:C6	2.45	0.52
1:BA:831:A:H2'	1:BA:832:G:O5'	2.09	0.52
3:BC:31:ASN:HD21	3:BC:58:ARG:HD3	1.74	0.52
4:BD:90:LEU:CD1	4:BD:196:GLU:HG3	2.39	0.52
5:BE:56:PRO:O	5:BE:59:ILE:CG1	2.57	0.52
6:BF:84:VAL:HG13	6:BF:84:VAL:O	2.10	0.52
1:BA:1351:U:H4'	7:BG:32:ASP:CG	2.30	0.52
17:BQ:6:THR:OG1	17:BQ:59:GLU:HG2	2.09	0.52
18:BR:21:ASP:OD1	18:BR:22:TYR:N	2.43	0.52
51:C0:53:VAL:O	51:C0:54:ILE:C	2.45	0.52
25:CA:250:G:OP2	54:C3:12:ARG:NH1	2.42	0.52
25:CA:1061:U:H3'	25:CA:1062:G:H5'	1.91	0.52
25:CA:1717:A:H2'	25:CA:1718:G:O5'	2.09	0.52
25:CA:172:A:H2'	25:CA:173:A:C8	2.45	0.52
25:CA:2096:C:H2'	25:CA:2096:C:O2	2.09	0.52
25:CA:2124:G:H2'	25:CA:2125:G:H5'	1.91	0.52
25:CA:2339:C:H2'	25:CA:2340:A:C8	2.44	0.52
25:CA:2626:C:O5'	25:CA:2626:C:H6	1.92	0.52
25:CA:65:U:H2'	25:CA:66:C:C6	2.45	0.52
25:CA:731:C:OP2	60:CA:3700:HOH:O	2.19	0.52
26:CB:54:G:C4	26:CB:55:U:C6	2.97	0.52
26:CB:20:G:C2	26:CB:64:G:C4	2.98	0.52
30:CF:100:GLU:O	30:CF:101:ARG:C	2.47	0.52
31:CG:153:PRO:HG3	31:CG:161:VAL:O	2.10	0.52
33:CI:100:ILE:HG21	33:CI:105:LEU:CD1	2.38	0.52
33:CI:46:ASP:CB	33:CI:50:LYS:HD2	2.40	0.52
33:CI:56:VAL:CG2	33:CI:57:VAL:N	2.73	0.52
43:CS:41:LYS:O	43:CS:42:LYS:C	2.46	0.52
44:CT:69:ARG:HA	44:CT:74:ILE:HA	1.91	0.52
25:CA:189:G:P	48:CX:25:LYS:HD2	2.50	0.52
48:CX:36:ARG:HG3	48:CX:47:THR:HB	1.92	0.52
25:DA:1168:G:H8	25:DA:1168:G:H5'	1.75	0.52
25:DA:1230:A:C2	25:DA:1231:U:C2	2.98	0.52
25:DA:1589:U:C2	25:DA:1590:A:C8	2.98	0.52
25:DA:195:A:C2'	25:DA:196:A:OP1	2.58	0.52
25:DA:2343:U:H2'	25:DA:2344:U:C5	2.44	0.52
29:DE:146:VAL:HG21	29:DE:148:ILE:HD11	1.90	0.52
30:DF:133:GLU:HG3	30:DF:135:ILE:HD12	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DF:33:ILE:HA	30:DF:154:THR:O	2.09	0.52
25:DA:910:A:C6	37:DM:13:HIS:CD2	2.98	0.52
38:DN:69:ARG:C	38:DN:70:THR:HG23	2.30	0.52
44:DT:21:SER:O	44:DT:24:MET:HB2	2.09	0.52
45:DU:65:GLN:HB2	45:DU:68:ASN:ND2	2.25	0.52
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.09	0.52
1:AA:1337:G:H4'	1:AA:1338:G:OP1	2.09	0.52
1:AA:1371:G:O3'	9:AI:70:GLY:HA3	2.09	0.52
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.73	0.52
1:AA:1410:A:H2'	1:AA:1411:C:H6	1.75	0.52
1:AA:142:G:H3'	1:AA:143:A:C8	2.41	0.52
1:AA:235:C:H2'	1:AA:236:A:C8	2.45	0.52
1:AA:374:A:C6	1:AA:375:U:C4	2.97	0.52
1:AA:38:G:N2	1:AA:397:A:C4	2.78	0.52
1:AA:452:A:N7	1:AA:453:G:N9	2.58	0.52
1:AA:464:U:C2	1:AA:466:A:H5''	2.45	0.52
1:AA:302:G:N3	1:AA:556:C:H4'	2.25	0.52
2:AB:122:ASP:O	2:AB:123:GLY:O	2.27	0.52
2:AB:146:SER:O	2:AB:147:LEU:CG	2.53	0.52
2:AB:20:ARG:O	2:AB:22:TRP:CD1	2.62	0.52
4:AD:89:LEU:HD12	4:AD:89:LEU:O	2.10	0.52
8:AH:46:GLU:N	8:AH:63:LYS:CG	2.72	0.52
9:AI:29:ILE:HA	9:AI:64:ILE:HG12	1.92	0.52
11:AK:33:ILE:HG12	11:AK:69:CYS:SG	2.49	0.52
13:AM:2:ARG:O	13:AM:3:ILE:O	2.28	0.52
15:AO:3:SER:HB2	15:AO:6:ALA:CB	2.39	0.52
19:AS:74:ALA:N	19:AS:75:PRO:CD	2.73	0.52
22:AV:75:C:H4'	22:AV:76:A:OP1	2.08	0.52
24:AY:107:THR:OG1	24:AY:108:GLU:N	2.43	0.52
1:BA:1306:A:H2'	1:BA:1307:U:O4'	2.10	0.52
1:BA:337:G:H2'	1:BA:338:A:C8	2.45	0.52
1:BA:562:U:OP2	12:BL:13:ARG:CZ	2.57	0.52
1:BA:692:U:H5	11:BK:27:ASN:ND2	2.08	0.52
2:BB:168:GLU:O	2:BB:169:HIS:C	2.48	0.52
2:BB:34:ARG:O	2:BB:37:VAL:HG12	2.10	0.52
6:BF:43:GLY:HA2	6:BF:58:HIS:NE2	2.25	0.52
7:BG:16:LYS:HE2	7:BG:17:PHE:CE1	2.44	0.52
8:BH:103:VAL:HG23	8:BH:123:GLU:O	2.10	0.52
8:BH:125:ILE:HG22	8:BH:126:CYS:SG	2.49	0.52
14:BN:25:GLU:HG3	14:BN:26:LEU:N	2.24	0.52
17:BQ:16:MET:HG2	17:BQ:19:SER:CB	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BU:36:PHE:CA	21:BU:39:LYS:HE3	2.39	0.52
25:CA:1079:C:C4	25:CA:1088:A:C5	2.98	0.52
25:CA:11:C:H2'	25:CA:12:U:H5'	1.91	0.52
25:CA:2114:A:C5	25:CA:2167:U:H5'	2.44	0.52
25:CA:674:G:H5''	29:CE:71:GLY:N	2.24	0.52
29:CE:54:GLY:CA	29:CE:74:LYS:HE2	2.40	0.52
31:CG:54:ARG:CD	31:CG:57:TYR:HE1	2.23	0.52
32:CH:103:VAL:HG12	32:CH:108:VAL:O	2.10	0.52
32:CH:8:LYS:NZ	32:CH:14:SER:HA	2.25	0.52
33:CI:83:ALA:HB2	33:CI:105:LEU:HD21	1.92	0.52
37:CM:31:PHE:CZ	37:CM:110:GLU:CA	2.93	0.52
40:CP:52:ARG:HH11	40:CP:52:ARG:CG	2.23	0.52
25:DA:1115:G:HO2'	25:DA:1116:G:H8	1.57	0.52
25:DA:1268:A:C2	25:DA:2013:A:C5	2.98	0.52
25:DA:1283:G:H22	25:DA:1286:A:H5'	1.73	0.52
25:DA:1417:C:H2'	25:DA:1418:G:O4'	2.10	0.52
25:DA:1433:A:H2'	25:DA:1434:A:O4'	2.10	0.52
25:DA:2185:U:H2'	25:DA:2186:G:C8	2.45	0.52
25:DA:2295:C:H2'	25:DA:2296:U:O5'	2.10	0.52
25:DA:2430:A:H5'	25:DA:2431:U:OP2	2.10	0.52
25:DA:2668:G:C2	25:DA:2669:G:C8	2.98	0.52
25:DA:276:U:C2'	25:DA:277:G:O5'	2.58	0.52
25:DA:279:A:N6	25:DA:361:G:H1'	2.24	0.52
25:DA:2811:G:H2'	25:DA:2812:G:O4'	2.10	0.52
25:DA:320:A:H4'	25:DA:322:A:C8	2.45	0.52
25:DA:545:U:O2	25:DA:545:U:O5'	2.26	0.52
25:DA:55:G:H2'	25:DA:56:A:H5'	1.92	0.52
25:DA:910:A:C6	37:DM:13:HIS:NE2	2.78	0.52
27:DC:62:ARG:HG3	27:DC:83:ASP:OD1	2.10	0.52
32:DH:16:GLY:C	32:DH:17:ASP:OD1	2.48	0.52
33:DI:10:LEU:O	33:DI:10:LEU:HD13	2.09	0.52
33:DI:5:GLN:O	33:DI:6:ALA:HB2	2.09	0.52
35:DK:22:ILE:HG21	35:DK:42:THR:HG22	1.92	0.52
36:DL:127:VAL:CG1	36:DL:131:ALA:CB	2.87	0.52
38:DN:100:CYS:SG	38:DN:100:CYS:O	2.68	0.52
38:DN:72:ASP:OD1	38:DN:75:ILE:HG12	2.10	0.52
40:DP:31:VAL:O	40:DP:37:LYS:HA	2.09	0.52
41:DQ:8:ILE:HG13	41:DQ:9:ALA:N	2.25	0.52
42:DR:49:ILE:CG2	42:DR:53:PHE:H	2.22	0.52
50:DZ:43:ILE:O	50:DZ:45:GLY:N	2.42	0.52
1:AA:1202:U:H2'	1:AA:1203:C:H5'	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1285:A:H4'	1:AA:1286:U:C2	2.45	0.52
1:AA:1539:C:OP1	21:AU:17:ARG:NH1	2.43	0.52
1:AA:19:A:O2'	1:AA:20:U:H5'	2.10	0.52
1:AA:106:C:O2	1:AA:379:C:H4'	2.10	0.52
1:AA:979:C:OP1	1:AA:981:U:O4	2.27	0.52
2:AB:131:LYS:CG	2:AB:132:GLU:N	2.71	0.52
2:AB:139:GLU:HG2	2:AB:143:LEU:HD21	1.90	0.52
3:AC:105:VAL:HG12	3:AC:106:ARG:O	2.10	0.52
3:AC:172:VAL:N	3:AC:173:PRO:HD3	2.25	0.52
5:AE:110:MET:HE1	5:AE:124:ALA:HB1	1.92	0.52
5:AE:35:LEU:HD21	5:AE:136:VAL:HG11	1.92	0.52
5:AE:37:VAL:HG23	5:AE:47:PHE:CB	2.40	0.52
5:AE:55:VAL:HB	5:AE:56:PRO:CD	2.39	0.52
6:AF:9:MET:CE	18:AR:64:LEU:HD22	2.40	0.52
7:AG:82:SER:HB3	7:AG:84:TYR:CD2	2.45	0.52
8:AH:46:GLU:N	8:AH:63:LYS:HG3	2.25	0.52
9:AI:16:ALA:HB2	9:AI:66:VAL:HG23	1.92	0.52
10:AJ:5:ARG:HG2	10:AJ:79:PRO:HG3	1.90	0.52
1:AA:1226:C:H2'	13:AM:101:THR:HB	1.92	0.52
1:AA:1302:C:C5	13:AM:16:ILE:HD13	2.44	0.52
15:AO:7:THR:HA	15:AO:10:ILE:HD12	1.90	0.52
22:AV:18:G:C4	22:AV:58:A:C6	2.97	0.52
1:BA:1267:C:O2	1:BA:1267:C:H2'	2.10	0.52
1:BA:1277:C:H1'	1:BA:1282:C:H1'	1.92	0.52
1:BA:1294:G:C2	1:BA:1295:U:C2	2.98	0.52
1:BA:1323:G:O4'	1:BA:1362:A:H2	1.93	0.52
1:BA:1348:U:C2	1:BA:1349:A:C8	2.98	0.52
1:BA:207:C:HO2'	1:BA:213:G:N2	2.08	0.52
1:BA:207:C:C2'	1:BA:207:C:O2	2.57	0.52
1:BA:438:U:C4'	4:BD:119:HIS:CD2	2.92	0.52
2:BB:95:TRP:NE1	2:BB:171:ALA:HB2	2.24	0.52
3:BC:129:PHE:CE1	3:BC:156:LEU:HB3	2.45	0.52
3:BC:79:LYS:HE3	3:BC:79:LYS:HA	1.92	0.52
4:BD:21:LYS:O	4:BD:22:SER:C	2.48	0.52
5:BE:49:TYR:O	5:BE:62:ALA:HB2	2.08	0.52
6:BF:14:GLN:C	6:BF:16:GLU:N	2.64	0.52
7:BG:139:ASP:C	7:BG:141:HIS:N	2.64	0.52
12:BL:23:LEU:C	12:BL:25:ALA:N	2.62	0.52
14:BN:43:ASN:ND2	14:BN:43:ASN:O	2.43	0.52
14:BN:61:ARG:O	14:BN:62:ASN:CB	2.57	0.52
18:BR:31:TYR:O	18:BR:39:VAL:CG2	2.57	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1019:U:H3	25:CA:1142:A:H62	1.58	0.52
25:CA:1171:G:H2'	25:CA:1172:C:C6	2.44	0.52
25:CA:1267:U:H2'	25:CA:1267:U:O2	2.10	0.52
25:CA:2127:G:N1	25:CA:2161:C:O2	2.42	0.52
25:CA:2307:G:N2	25:CA:2311:A:C2'	2.69	0.52
25:CA:2713:U:H3'	25:CA:2714:G:H5''	1.92	0.52
25:CA:656:G:H2'	25:CA:657:U:O5'	2.09	0.52
28:CD:98:VAL:CG2	28:CD:98:VAL:O	2.57	0.52
30:CF:40:GLY:HA2	30:CF:84:ILE:HD11	1.91	0.52
31:CG:95:ALA:CB	31:CG:104:LEU:HD23	2.39	0.52
46:CV:8:VAL:HG12	46:CV:65:VAL:HG21	1.91	0.52
25:DA:1018:U:C4	25:DA:1019:U:H5	2.28	0.52
25:DA:1124:G:O2'	25:DA:1125:G:H5'	2.10	0.52
25:DA:1197:G:H2'	25:DA:1198:U:C6	2.45	0.52
25:DA:1404:C:C2	25:DA:1405:U:C5	2.98	0.52
25:DA:1444:G:C2	25:DA:1548:A:C2	2.97	0.52
25:DA:1998:A:OP2	28:DD:141:ARG:NH2	2.42	0.52
25:DA:2407:A:H2'	25:DA:2408:U:C6	2.45	0.52
25:DA:371:A:H61	25:DA:401:A:H3'	1.74	0.52
25:DA:843:G:C2	25:DA:936:A:C2	2.98	0.52
56:DB:61:G:C5	56:DB:62:C:C4	2.98	0.52
28:DD:149:ASN:OD1	28:DD:150:GLN:N	2.43	0.52
30:DF:51:ASN:O	30:DF:52:ALA:C	2.48	0.52
32:DH:72:ILE:HG22	32:DH:73:ASN:H	1.73	0.52
42:DR:49:ILE:HD12	42:DR:52:PRO:CA	2.35	0.52
45:DU:35:VAL:O	45:DU:35:VAL:HG12	2.08	0.52
45:DU:40:LEU:HD22	45:DU:61:GLU:HG3	1.90	0.52
45:DU:70:ALA:HB3	45:DU:79:ALA:HB1	1.91	0.52
46:DV:63:ILE:HG22	46:DV:65:VAL:CG1	2.39	0.52
1:AA:1182:G:H4'	1:AA:1183:U:H5'	1.92	0.52
1:AA:1285:A:H5'	1:AA:1286:U:C4	2.44	0.52
1:AA:1304:G:N7	1:AA:1305:G:C6	2.78	0.52
1:AA:1410:A:C4	1:AA:1491:G:N2	2.78	0.52
1:AA:188:C:O2	1:AA:188:C:C2'	2.57	0.52
1:AA:451:A:C8	1:AA:481:G:C6	2.97	0.52
1:AA:525:C:H2'	1:AA:526:C:C6	2.44	0.52
1:AA:763:G:C2'	1:AA:764:C:O5'	2.57	0.52
1:AA:802:A:C2'	1:AA:803:G:H5'	2.39	0.52
2:AB:48:MET:HG2	2:AB:198:VAL:O	2.10	0.52
2:AB:59:ILE:C	2:AB:59:ILE:HD12	2.30	0.52
3:AC:58:ARG:HA	3:AC:62:SER:O	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:82:HIS:CE1	5:AE:146:MET:HG3	2.45	0.52
5:AE:94:PHE:C	5:AE:94:PHE:CD1	2.82	0.52
8:AH:50:VAL:O	8:AH:50:VAL:HG22	2.10	0.52
9:AI:42:THR:O	9:AI:43:ALA:HB3	2.09	0.52
12:AL:31:GLY:HA3	12:AL:54:VAL:CG1	2.40	0.52
14:AN:20:PHE:CG	14:AN:24:ALA:HB3	2.45	0.52
1:AA:1202:U:C2	14:AN:82:ILE:HG21	2.45	0.52
17:AQ:13:SER:HB2	17:AQ:21:VAL:CG1	2.39	0.52
20:AT:4:LYS:CA	20:AT:4:LYS:HE2	2.40	0.52
20:AT:77:ASN:O	20:AT:81:GLN:HG2	2.10	0.52
1:BA:1087:G:C2	1:BA:1088:G:C8	2.98	0.52
1:BA:1104:G:C2	1:BA:1105:A:C4	2.98	0.52
1:BA:1015:G:HO2'	1:BA:1218:C:HO2'	1.58	0.52
1:BA:1296:C:H4'	1:BA:1302:C:N4	2.25	0.52
1:BA:1362:A:C4'	1:BA:1362:A:OP1	2.46	0.52
1:BA:1532:U:H5''	1:BA:1533:C:OP2	2.10	0.52
1:BA:180:U:C2'	1:BA:181:A:O5'	2.58	0.52
1:BA:526:C:H2'	1:BA:527:G:C4'	2.39	0.52
1:BA:570:G:O6	1:BA:865:A:N6	2.42	0.52
1:BA:723:U:C5'	1:BA:724:G:OP1	2.58	0.52
1:BA:786:G:H2'	1:BA:787:A:O5'	2.10	0.52
4:BD:156:ALA:O	4:BD:159:GLU:HB3	2.10	0.52
5:BE:153:ALA:O	5:BE:155:LYS:N	2.43	0.52
6:BF:4:TYR:CD2	6:BF:71:ILE:CD1	2.93	0.52
9:BI:10:ARG:HA	9:BI:77:ALA:HB1	1.92	0.52
9:BI:83:THR:HA	9:BI:86:LEU:HD12	1.91	0.52
1:BA:972:C:C2'	10:BJ:57:VAL:HG23	2.40	0.52
11:BK:96:ILE:HD12	11:BK:97:ARG:N	2.24	0.52
12:BL:49:ARG:HB2	12:BL:89:LEU:HD11	1.92	0.52
12:BL:73:LEU:N	12:BL:73:LEU:CD2	2.73	0.52
18:BR:22:TYR:O	18:BR:22:TYR:CD1	2.63	0.52
18:BR:28:LEU:O	18:BR:31:TYR:N	2.43	0.52
20:BT:84:LYS:HA	20:BT:84:LYS:HE3	1.91	0.52
52:C1:25:ASN:OD1	52:C1:27:ARG:HB2	2.10	0.52
25:CA:2539:C:H5'	55:C4:3:VAL:HG21	1.92	0.52
25:CA:1090:A:H2'	25:CA:1091:G:O5'	2.10	0.52
25:CA:1372:U:C2'	25:CA:1373:A:C5'	2.88	0.52
25:CA:1468:U:H5'	25:CA:1469:A:OP1	2.10	0.52
25:CA:1673:G:H2'	25:CA:1674:G:H5'	1.90	0.52
25:CA:2473:U:C5	25:CA:2474:U:C4	2.98	0.52
25:CA:414:C:H2'	25:CA:415:A:C8	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:547:A:C8	25:CA:548:G:O4'	2.63	0.52
25:CA:630:G:C3'	25:CA:631:A:H5''	2.41	0.52
26:CB:39:A:O2'	26:CB:40:U:H5'	2.10	0.52
27:CC:24:HIS:NE2	27:CC:79:ARG:NH2	2.58	0.52
29:CE:141:MET:O	29:CE:142:ALA:HB3	2.09	0.52
30:CF:142:TYR:O	30:CF:142:TYR:CG	2.63	0.52
32:CH:116:ARG:HG3	32:CH:133:GLN:CG	2.40	0.52
32:CH:72:ILE:HG22	32:CH:73:ASN:OD1	2.10	0.52
34:CJ:65:THR:HG23	34:CJ:68:LYS:HZ2	1.75	0.52
36:CL:125:LEU:N	36:CL:125:LEU:CD1	2.73	0.52
36:CL:81:ASP:C	36:CL:83:ALA:H	2.14	0.52
39:CO:35:ILE:HD11	39:CO:106:LEU:HD13	1.92	0.52
39:CO:7:ARG:HG3	39:CO:96:GLY:HA3	1.92	0.52
45:CU:6:ARG:HG3	45:CU:7:ASP:H	1.75	0.52
25:DA:1392:A:N6	25:DA:1393:A:H61	2.08	0.52
25:DA:1701:A:H2'	25:DA:1702:G:H5'	1.92	0.52
25:DA:1731:G:C5	25:DA:1733:G:C8	2.98	0.52
25:DA:2097:A:C4	25:DA:2098:U:C5	2.98	0.52
25:DA:2306:C:H3'	25:DA:2307:G:C5'	2.38	0.52
25:DA:2531:A:C5	25:DA:2532:G:N7	2.78	0.52
25:DA:2799:A:O2'	25:DA:2800:A:H5'	2.10	0.52
25:DA:392:U:H2'	25:DA:393:C:H6	1.75	0.52
25:DA:545:U:H6	25:DA:547:A:O3'	1.93	0.52
25:DA:724:U:H2'	25:DA:725:G:O4'	2.10	0.52
56:DB:37:C:C5	56:DB:38:C:C4	2.98	0.52
56:DB:49:C:H2'	56:DB:50:A:O5'	2.10	0.52
29:DE:61:ARG:CD	29:DE:63:LYS:O	2.58	0.52
30:DF:3:LEU:HD21	30:DF:100:GLU:OE1	2.10	0.52
32:DH:14:SER:HA	32:DH:15:LEU:HD22	1.90	0.52
35:DK:87:LEU:HD22	35:DK:92:GLU:HA	1.92	0.52
37:DM:2:LEU:O	37:DM:3:GLN:CB	2.57	0.52
44:DT:51:PHE:O	44:DT:52:GLU:C	2.49	0.52
46:DV:65:VAL:O	46:DV:65:VAL:HG22	2.10	0.52
1:AA:1066:C:O2	1:AA:1066:C:H2'	2.10	0.51
1:AA:1136:C:O4'	1:AA:1136:C:O2	2.29	0.51
1:AA:490:C:H2'	1:AA:491:G:O4'	2.10	0.51
1:AA:684:U:H2'	1:AA:685:G:O4'	2.10	0.51
1:AA:781:A:C4	1:AA:802:A:C2	2.98	0.51
1:AA:79:G:H1	1:AA:90:C:N4	2.01	0.51
1:AA:97:G:H2'	1:AA:98:A:O5'	2.10	0.51
2:AB:116:LEU:CG	2:AB:140:LEU:HD11	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:106:ARG:N	3:AC:106:ARG:HD3	2.25	0.51
3:AC:109:GLU:HB2	3:AC:143:LEU:HD23	1.93	0.51
4:AD:10:LEU:HD21	4:AD:62:ARG:HD3	1.90	0.51
5:AE:154:ALA:HB1	8:AH:65:PHE:CE2	2.45	0.51
7:AG:86:VAL:O	7:AG:86:VAL:HG12	2.09	0.51
8:AH:111:THR:O	8:AH:114:ALA:HB3	2.09	0.51
9:AI:18:VAL:HG11	9:AI:82:ILE:HG12	1.92	0.51
9:AI:83:THR:HB	9:AI:97:LEU:CD2	2.38	0.51
10:AJ:27:GLU:O	10:AJ:29:ALA:N	2.44	0.51
10:AJ:32:THR:CG2	10:AJ:83:THR:HA	2.39	0.51
16:AP:50:THR:O	16:AP:51:ARG:O	2.28	0.51
20:AT:16:ALA:O	20:AT:20:ASN:ND2	2.44	0.51
1:BA:1242:G:H2'	1:BA:1243:C:O4'	2.09	0.51
1:BA:1345:U:C2	1:BA:1377:A:N1	2.78	0.51
1:BA:1472:U:H2'	1:BA:1473:G:O5'	2.10	0.51
1:BA:15:G:C6	1:BA:16:A:C5	2.98	0.51
1:BA:474:G:C4	1:BA:475:C:C6	2.97	0.51
1:BA:671:G:C5	1:BA:672:U:C5	2.98	0.51
1:BA:694:A:H2'	1:BA:695:A:O5'	2.10	0.51
1:BA:711:G:O2'	1:BA:712:A:H5'	2.10	0.51
1:BA:908:A:H2'	1:BA:909:A:C8	2.45	0.51
3:BC:66:THR:HG22	3:BC:67:ILE:H	1.73	0.51
4:BD:145:ARG:HB2	4:BD:147:LYS:HE2	1.90	0.51
5:BE:104:ILE:H	5:BE:121:ASN:CA	2.22	0.51
5:BE:152:VAL:O	5:BE:155:LYS:NZ	2.33	0.51
5:BE:153:ALA:HA	5:BE:156:ARG:C	2.30	0.51
1:BA:1298:U:O2	7:BG:113:LYS:HE2	2.09	0.51
7:BG:106:ALA:HB1	7:BG:122:GLU:OE2	2.10	0.51
12:BL:18:SER:OG	12:BL:20:VAL:HG23	2.10	0.51
16:BP:19:VAL:CG1	16:BP:38:PHE:N	2.73	0.51
17:BQ:46:HIS:CG	17:BQ:47:ASP:H	2.28	0.51
1:BA:186:C:O4'	20:BT:75:LYS:HD2	2.10	0.51
54:C3:44:ARG:HH11	54:C3:44:ARG:HG3	1.74	0.51
25:CA:1094:U:O2	25:CA:1096:A:N7	2.43	0.51
25:CA:1744:A:C2	25:CA:1745:A:H1'	2.45	0.51
25:CA:2093:G:C6	25:CA:2225:A:C8	2.98	0.51
25:CA:277:G:C8	25:CA:361:G:O6	2.63	0.51
25:CA:473:G:H2'	25:CA:474:G:O5'	2.10	0.51
27:CC:216:ARG:HB3	27:CC:217:PRO:HD3	1.92	0.51
30:CF:56:LEU:HD13	30:CF:64:PRO:HB3	1.91	0.51
31:CG:130:ILE:HG22	31:CG:131:VAL:N	2.24	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:14:ALA:HB1	33:CI:45:THR:HG23	1.92	0.51
41:CQ:13:HIS:O	41:CQ:14:LYS:C	2.48	0.51
43:CS:48:LYS:HE3	43:CS:52:GLU:OE2	2.10	0.51
44:CT:19:LYS:O	44:CT:20:ALA:C	2.49	0.51
50:CZ:6:ILE:CD1	50:CZ:47:ILE:HD11	2.40	0.51
25:DA:1096:A:C2	25:DA:1097:U:C5	2.98	0.51
25:DA:1394:U:C6	25:DA:1394:U:H3'	2.44	0.51
25:DA:1746:A:N3	25:DA:1747:U:C5	2.77	0.51
25:DA:1760:C:H2'	25:DA:1761:C:O4'	2.11	0.51
25:DA:1867:G:O2'	25:DA:1868:C:H5'	2.09	0.51
25:DA:215:G:C4'	25:DA:216:A:H4'	2.40	0.51
25:DA:2403:C:C4	25:DA:2415:G:N1	2.78	0.51
25:DA:604:G:C5	25:DA:625:G:C2	2.98	0.51
25:DA:742:A:H2'	25:DA:743:A:C8	2.45	0.51
56:DB:50:A:OP1	39:DO:68:LYS:HG3	2.10	0.51
27:DC:83:ASP:HB3	27:DC:86:ARG:HG2	1.92	0.51
29:DE:147:LEU:HB3	29:DE:186:VAL:HG22	1.91	0.51
29:DE:178:VAL:HG13	29:DE:179:SER:N	2.24	0.51
25:DA:1255:U:C5	29:DE:68:ALA:HA	2.45	0.51
31:DG:97:VAL:CG2	31:DG:124:CYS:SG	2.99	0.51
31:DG:42:VAL:HG22	31:DG:43:LYS:N	2.25	0.51
36:DL:123:ARG:HG3	36:DL:143:GLU:CG	2.39	0.51
25:DA:2392:A:O2'	36:DL:60:ARG:O	2.28	0.51
25:DA:2469:A:O2'	37:DM:55:ARG:NH2	2.43	0.51
38:DN:50:PRO:HB2	38:DN:51:LEU:HD23	1.90	0.51
40:DP:100:ARG:C	40:DP:101:GLU:HG2	2.31	0.51
43:DS:36:LEU:CD1	43:DS:48:LYS:HB2	2.41	0.51
44:DT:87:LEU:O	44:DT:88:LYS:O	2.27	0.51
45:DU:94:PHE:CA	45:DU:102:ILE:HD12	2.40	0.51
49:DY:16:THR:O	49:DY:19:LEU:N	2.44	0.51
1:AA:1472:U:O2'	1:AA:1473:G:H5'	2.09	0.51
1:AA:148:G:C2'	1:AA:149:A:O5'	2.59	0.51
1:AA:432:A:H2'	1:AA:433:G:O5'	2.11	0.51
1:AA:853:C:H2'	1:AA:854:U:C6	2.45	0.51
1:AA:891:U:C5	1:AA:906:A:C2	2.98	0.51
2:AB:8:MET:HB2	2:AB:43:GLU:OE2	2.09	0.51
3:AC:135:ARG:O	3:AC:136:ALA:C	2.48	0.51
3:AC:41:TYR:CZ	3:AC:89:VAL:HG21	2.45	0.51
4:AD:112:GLU:O	4:AD:115:GLN:HB3	2.10	0.51
4:AD:117:VAL:HA	4:AD:122:ILE:HD12	1.91	0.51
5:AE:81:GLN:HE22	5:AE:148:SER:HA	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:144:ALA:O	7:AG:145:GLU:HB2	2.09	0.51
9:AI:98:ARG:HA	9:AI:103:VAL:HG21	1.92	0.51
11:AK:30:ILE:HD12	11:AK:31:VAL:N	2.24	0.51
11:AK:39:ASN:O	11:AK:40:ALA:CB	2.59	0.51
13:AM:28:ARG:NH1	13:AM:62:PHE:CB	2.73	0.51
1:BA:1171:A:H2'	1:BA:1172:C:H6	1.75	0.51
1:BA:1308:U:H5''	13:BM:96:VAL:HG21	1.91	0.51
1:BA:1424:U:C4	1:BA:1425:U:C5	2.98	0.51
1:BA:261:U:H5	20:BT:73:ARG:CZ	2.23	0.51
1:BA:782:A:C2'	1:BA:783:C:H5'	2.40	0.51
1:BA:840:C:C6	1:BA:842:U:H5''	2.44	0.51
1:BA:844:G:N3	1:BA:844:G:H2'	2.24	0.51
2:BB:63:LYS:C	2:BB:63:LYS:CD	2.78	0.51
2:BB:86:CYS:C	2:BB:88:GLN:H	2.14	0.51
2:BB:69:VAL:HG22	2:BB:91:VAL:HG23	1.92	0.51
3:BC:161:ILE:HD12	3:BC:161:ILE:O	2.10	0.51
4:BD:53:GLN:HG2	4:BD:202:LEU:HB2	1.93	0.51
4:BD:98:ASP:OD1	4:BD:99:ASN:N	2.42	0.51
5:BE:82:HIS:HB2	5:BE:83:PRO:HD2	1.91	0.51
7:BG:41:ILE:HG23	7:BG:116:ALA:CA	2.40	0.51
8:BH:80:PRO:HA	8:BH:83:ARG:HE	1.76	0.51
13:BM:59:VAL:HG22	13:BM:60:ALA:N	2.24	0.51
14:BN:41:ARG:HH22	14:BN:45:VAL:HG21	1.74	0.51
16:BP:51:ARG:HH11	16:BP:51:ARG:HB3	1.74	0.51
20:BT:14:GLU:HA	20:BT:14:GLU:OE2	2.10	0.51
25:CA:1074:G:C2'	25:CA:1075:C:H5'	2.35	0.51
25:CA:1495:A:H2'	25:CA:1496:A:O5'	2.10	0.51
25:CA:1681:G:O2'	25:CA:1762:A:H1'	2.10	0.51
25:CA:1766:G:H2'	25:CA:1767:G:H8	1.74	0.51
25:CA:1860:G:C6	25:CA:1883:U:O2	2.63	0.51
25:CA:1917:U:C4	25:CA:1918:A:C5	2.99	0.51
25:CA:2784:U:H2'	25:CA:2785:C:C6	2.43	0.51
25:CA:356:G:O2'	25:CA:357:C:H5'	2.10	0.51
25:CA:666:A:H2'	25:CA:667:U:C6	2.45	0.51
30:CF:110:ILE:HG12	30:CF:136:ILE:HG21	1.92	0.51
30:CF:24:VAL:CG2	30:CF:24:VAL:O	2.58	0.51
33:CI:79:LEU:CD2	33:CI:100:ILE:HD11	2.41	0.51
34:CJ:88:THR:O	34:CJ:89:PHE:C	2.47	0.51
38:CN:74:GLU:HG2	38:CN:75:ILE:HD12	1.91	0.51
44:CT:2:ILE:HG23	44:CT:7:LEU:HD12	1.93	0.51
44:CT:28:ASN:HD21	44:CT:91:GLN:HB3	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CY:28:LEU:CD2	49:CY:37:LEU:HD21	2.40	0.51
49:CY:9:LYS:HB3	49:CY:12:GLU:H	1.76	0.51
52:D1:46:VAL:HG12	52:D1:47:ILE:N	2.25	0.51
25:DA:1505:A:H2'	25:DA:1506:U:C6	2.44	0.51
25:DA:1746:A:C2	25:DA:1747:U:C4	2.99	0.51
25:DA:2119:A:H3'	25:DA:2120:G:C5'	2.40	0.51
25:DA:2298:A:H2'	25:DA:2299:U:C6	2.45	0.51
25:DA:2299:U:H2'	25:DA:2300:C:H6	1.76	0.51
25:DA:2314:A:C2	25:DA:2315:G:C5	2.99	0.51
25:DA:2415:G:N3	25:DA:2416:C:C6	2.78	0.51
25:DA:354:A:C6	25:DA:355:U:C4	2.98	0.51
25:DA:359:G:H2'	25:DA:360:U:H5'	1.92	0.51
25:DA:630:G:H3'	25:DA:631:A:H5''	1.92	0.51
25:DA:716:A:H3'	25:DA:717:C:H5''	1.93	0.51
25:DA:847:U:O2	25:DA:847:U:H2'	2.11	0.51
28:DD:4:LEU:HD23	28:DD:29:VAL:HG11	1.91	0.51
29:DE:46:GLN:HB3	29:DE:83:VAL:HG21	1.92	0.51
31:DG:26:LYS:HB3	31:DG:31:GLU:OE2	2.10	0.51
32:DH:129:GLU:OE2	32:DH:141:LYS:HB3	2.11	0.51
33:DI:120:ASP:OD2	33:DI:122:GLU:HB3	2.10	0.51
33:DI:45:THR:HG22	33:DI:50:LYS:HG3	1.93	0.51
37:DM:136:MET:HE3	37:DM:136:MET:O	2.10	0.51
37:DM:41:LEU:HD12	37:DM:96:ILE:CD1	2.40	0.51
41:DQ:31:TYR:C	41:DQ:31:TYR:CD2	2.84	0.51
42:DR:14:VAL:HA	42:DR:18:GLN:NE2	2.25	0.51
49:DY:11:VAL:HG12	49:DY:11:VAL:O	2.08	0.51
1:AA:1140:C:O2'	1:AA:1141:C:P	2.68	0.51
1:AA:1293:C:C4	1:AA:1294:G:N7	2.78	0.51
1:AA:284:C:H2'	1:AA:285:C:C6	2.46	0.51
1:AA:383:A:H2'	1:AA:384:G:O4'	2.11	0.51
1:AA:541:G:C2	1:AA:542:G:C4	2.98	0.51
2:AB:116:LEU:HB3	2:AB:140:LEU:HD11	1.93	0.51
3:AC:204:GLY:O	3:AC:205:GLU:HG2	2.10	0.51
4:AD:120:LYS:C	4:AD:122:ILE:HD13	2.31	0.51
4:AD:33:ILE:HG12	4:AD:34:GLU:HB2	1.91	0.51
5:AE:131:ASN:HD22	5:AE:132:PRO:N	2.09	0.51
6:AF:21:MET:HA	6:AF:24:ARG:NH2	2.25	0.51
6:AF:43:GLY:HA2	6:AF:58:HIS:CD2	2.45	0.51
8:AH:77:VAL:HG11	8:AH:124:ILE:HD11	1.91	0.51
9:AI:18:VAL:HG11	9:AI:82:ILE:CG1	2.40	0.51
9:AI:27:ILE:HG23	9:AI:62:LEU:HD23	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:55:ARG:HH21	12:AL:55:ARG:HG3	1.75	0.51
13:AM:5:GLY:C	13:AM:7:ASN:H	2.13	0.51
14:AN:35:ALA:CA	14:AN:41:ARG:HB3	2.40	0.51
14:AN:41:ARG:HB2	14:AN:42:TRP:CE3	2.44	0.51
16:AP:10:GLY:HA3	16:AP:15:PRO:HA	1.92	0.51
20:AT:35:TYR:HA	20:AT:38:ILE:CD1	2.40	0.51
1:BA:1145:A:H4'	1:BA:1145:A:OP1	2.08	0.51
1:BA:1266:G:N1	1:BA:1270:G:C6	2.78	0.51
1:BA:1358:U:H2'	1:BA:1359:C:O4'	2.10	0.51
1:BA:359:G:H2'	1:BA:360:G:O4'	2.11	0.51
1:BA:588:G:C6	1:BA:589:U:N3	2.79	0.51
1:BA:680:C:O2'	1:BA:681:A:H5'	2.10	0.51
1:BA:70:U:H1'	1:BA:71:A:N7	2.26	0.51
1:BA:857:C:C2'	1:BA:858:G:O5'	2.58	0.51
1:BA:980:C:H2'	1:BA:981:U:H5'	1.91	0.51
2:BB:70:GLY:HA3	2:BB:163:ILE:CG2	2.40	0.51
4:BD:74:TYR:O	4:BD:78:ALA:N	2.43	0.51
7:BG:98:LEU:HD22	7:BG:102:TRP:CZ2	2.45	0.51
8:BH:9:MET:HE1	8:BH:32:LYS:O	2.10	0.51
10:BJ:28:THR:HG21	10:BJ:90:LEU:HD12	1.92	0.51
11:BK:32:THR:OG1	11:BK:43:TRP:HB3	2.09	0.51
1:BA:1223:C:P	19:BS:77:ARG:HH12	2.33	0.51
21:BU:35:GLU:HA	21:BU:35:GLU:OE1	2.10	0.51
21:BU:52:VAL:HG13	21:BU:53:LYS:H	1.74	0.51
25:CA:1106:G:H2'	25:CA:1106:G:N3	2.26	0.51
25:CA:1463:C:H5'	25:CA:1463:C:H6	1.74	0.51
25:CA:1534:U:H5'	25:CA:1535:A:OP2	2.09	0.51
25:CA:18:U:O3'	41:CQ:22:GLY:HA2	2.11	0.51
25:CA:2108:A:C6	25:CA:2109:U:C2	2.98	0.51
25:CA:720:U:O2	25:CA:720:U:H2'	2.10	0.51
25:CA:89:A:O2'	25:CA:90:U:H5'	2.10	0.51
25:CA:2748:A:C1'	31:CG:66:THR:HG22	2.39	0.51
32:CH:126:GLY:O	32:CH:145:ASN:HA	2.10	0.51
35:CK:87:LEU:HD23	35:CK:94:PRO:HA	1.92	0.51
38:CN:51:LEU:O	38:CN:54:LEU:HB3	2.10	0.51
39:CO:31:THR:HB	39:CO:34:HIS:H	1.75	0.51
47:CW:13:GLU:O	47:CW:15:LYS:HE2	2.09	0.51
51:D0:54:ILE:O	51:D0:55:ALA:HB3	2.11	0.51
25:DA:1386:C:H2'	25:DA:1387:A:C8	2.45	0.51
25:DA:1578:U:C2'	25:DA:1579:A:O5'	2.57	0.51
25:DA:1340:U:C5	25:DA:1603:A:C8	2.98	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1812:U:O2	25:DA:1812:U:C2'	2.54	0.51
25:DA:1966:A:N3	25:DA:2592:G:O2'	2.32	0.51
25:DA:2059:A:O3'	29:DE:64:GLY:HA2	2.10	0.51
25:DA:223:A:C8	25:DA:422:A:C1'	2.94	0.51
25:DA:2338:C:C2	25:DA:2339:C:H5	2.28	0.51
25:DA:272:A:C6	25:DA:273:G:C6	2.98	0.51
25:DA:583:G:C5	25:DA:584:C:C5	2.98	0.51
25:DA:7:G:C6	25:DA:8:C:C4	2.99	0.51
25:DA:801:G:H4'	25:DA:802:A:OP2	2.10	0.51
25:DA:970:U:O5'	25:DA:970:U:H6	1.93	0.51
28:DD:139:SER:HA	28:DD:142:VAL:HG13	1.91	0.51
25:DA:2720:U:OP1	40:DP:52:ARG:NH2	2.44	0.51
40:DP:7:LEU:CD2	40:DP:7:LEU:O	2.58	0.51
41:DQ:71:ASN:HB3	41:DQ:109:VAL:HG11	1.91	0.51
1:AA:108:G:N3	1:AA:108:G:H5'	2.25	0.51
1:AA:1112:C:O2	3:AC:178:ARG:HG3	2.10	0.51
1:AA:1286:U:OP1	1:AA:1286:U:C6	2.63	0.51
1:AA:1332:A:H2'	1:AA:1333:A:O5'	2.10	0.51
1:AA:491:G:N3	1:AA:491:G:H2'	2.23	0.51
1:AA:874:G:C4	1:AA:875:U:C5	2.98	0.51
1:AA:994:A:C8	1:AA:1216:A:H4'	2.46	0.51
4:AD:125:ASN:HA	4:AD:141:VAL:HG22	1.93	0.51
4:AD:131:ILE:O	4:AD:131:ILE:HD12	2.10	0.51
7:AG:134:VAL:O	7:AG:138:GLU:HG2	2.10	0.51
10:AJ:56:HIS:O	10:AJ:57:VAL:CG1	2.59	0.51
11:AK:85:VAL:CG1	11:AK:92:ARG:NH1	2.73	0.51
15:AO:78:THR:O	15:AO:82:GLU:OE1	2.29	0.51
9:AI:129:ARG:NH1	22:AV:35:A:OP1	2.44	0.51
1:BA:111:G:O6	1:BA:330:C:N4	2.43	0.51
1:BA:1149:C:H6	1:BA:1149:C:O5'	1.94	0.51
1:BA:1236:A:H4'	1:BA:1304:G:H5'	1.91	0.51
1:BA:1441:A:C8	1:BA:1441:A:C3'	2.93	0.51
1:BA:512:U:H2'	1:BA:513:C:C6	2.46	0.51
1:BA:626:G:C2'	1:BA:627:G:O5'	2.59	0.51
1:BA:969:A:H2'	1:BA:970:C:H6	1.74	0.51
3:BC:37:LYS:HG3	3:BC:37:LYS:O	2.11	0.51
3:BC:73:GLY:O	3:BC:75:VAL:N	2.44	0.51
4:BD:168:THR:CG2	4:BD:183:ARG:NH2	2.74	0.51
4:BD:55:ARG:HH11	4:BD:55:ARG:HA	1.75	0.51
7:BG:41:ILE:HG23	7:BG:116:ALA:CB	2.41	0.51
12:BL:49:ARG:CG	12:BL:89:LEU:HD11	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:26:LYS:HD3	13:BM:26:LYS:O	2.10	0.51
17:BQ:37:ILE:HG22	17:BQ:38:LYS:O	2.10	0.51
25:CA:1056:G:HO2'	25:CA:1086:A:H8	1.53	0.51
25:CA:1439:A:C2'	25:CA:1440:U:H5'	2.41	0.51
25:CA:1533:C:H5'	25:CA:1534:U:OP2	2.10	0.51
25:CA:181:A:C2	25:CA:182:A:C4	2.99	0.51
25:CA:1851:U:C2'	25:CA:1852:U:O5'	2.58	0.51
25:CA:324:A:H2'	25:CA:325:G:O5'	2.10	0.51
25:CA:878:A:N7	25:CA:899:A:H2	2.09	0.51
29:CE:53:THR:O	29:CE:53:THR:HG22	2.09	0.51
30:CF:76:PHE:C	30:CF:77:LYS:HG3	2.30	0.51
33:CI:45:THR:HG22	33:CI:50:LYS:HG3	1.92	0.51
35:CK:51:LYS:HD3	35:CK:95:ILE:HG22	1.92	0.51
44:CT:2:ILE:HG12	44:CT:7:LEU:HD11	1.92	0.51
46:CV:16:ALA:N	46:CV:19:ARG:HH21	2.09	0.51
47:CW:6:THR:O	47:CW:7:ARG:CB	2.58	0.51
49:CY:28:LEU:O	49:CY:29:ARG:C	2.49	0.51
52:D1:42:VAL:O	52:D1:43:ARG:HB2	2.11	0.51
55:D4:17:VAL:CB	55:D4:26:ILE:HD11	2.38	0.51
25:DA:1073:A:H3'	25:DA:1074:G:C5'	2.40	0.51
25:DA:1195:G:H2'	25:DA:1196:C:H5'	1.91	0.51
25:DA:1358:G:H2'	25:DA:1359:A:OP2	2.10	0.51
25:DA:136:G:H2'	25:DA:137:U:C5	2.45	0.51
25:DA:1441:G:C2	25:DA:1442:U:C4	2.98	0.51
25:DA:149:A:C4	25:DA:150:U:C5	2.99	0.51
25:DA:1777:U:C2'	25:DA:1778:U:H5'	2.41	0.51
25:DA:2207:C:C2	25:DA:2208:C:C5	2.98	0.51
25:DA:239:C:C4	25:DA:240:C:N3	2.78	0.51
25:DA:2573:C:P	60:DA:3716:HOH:O	2.68	0.51
25:DA:2579:C:H2'	25:DA:2580:U:H5'	1.92	0.51
25:DA:2584:U:H2'	25:DA:2585:U:H5'	1.92	0.51
25:DA:2660:A:H2'	25:DA:2661:G:O4'	2.11	0.51
25:DA:2804:U:H2'	25:DA:2805:C:C6	2.45	0.51
25:DA:2818:U:O2'	25:DA:2837:A:H5'	2.09	0.51
25:DA:323:C:N4	25:DA:333:G:N7	2.59	0.51
25:DA:359:G:C6	25:DA:360:U:O2	2.63	0.51
25:DA:536:G:C2'	25:DA:537:G:O5'	2.59	0.51
25:DA:664:G:C5	25:DA:665:U:C5	2.99	0.51
31:DG:122:ALA:HB2	31:DG:132:LEU:HB3	1.92	0.51
34:DJ:43:GLU:H	34:DJ:43:GLU:CD	2.13	0.51
39:DO:55:GLU:O	39:DO:56:LYS:C	2.49	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DP:32:VAL:CG1	40:DP:32:VAL:O	2.58	0.51
40:DP:63:ILE:HA	40:DP:68:GLY:HA2	1.91	0.51
44:DT:40:LYS:HG2	44:DT:58:VAL:O	2.10	0.51
45:DU:94:PHE:HA	45:DU:102:ILE:CD1	2.41	0.51
46:DV:26:PHE:CE2	46:DV:44:HIS:HA	2.45	0.51
57:DW:11:ASP:OD2	57:DW:12:SER:N	2.43	0.51
1:AA:1008:U:C2	1:AA:1022:A:C2	2.99	0.51
1:AA:1082:A:C2	1:AA:1083:U:O2	2.64	0.51
1:AA:1269:A:C2	1:AA:1313:U:H1'	2.46	0.51
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.46	0.51
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.76	0.51
1:AA:449:G:O2'	1:AA:450:G:H5'	2.10	0.51
1:AA:663:A:H5'	1:AA:836:G:OP1	2.10	0.51
1:AA:87:C:H2'	1:AA:88:U:H5'	1.92	0.51
1:AA:893:C:H2'	1:AA:894:G:H8	1.75	0.51
1:AA:866:C:H4'	1:AA:919:A:H5'	1.92	0.51
2:AB:151:LYS:HG3	2:AB:152:ASP:N	2.25	0.51
2:AB:90:PHE:N	2:AB:149:GLY:HA3	2.23	0.51
3:AC:16:PRO:O	3:AC:17:TRP:CB	2.59	0.51
4:AD:121:ALA:N	4:AD:122:ILE:HD13	2.24	0.51
4:AD:129:VAL:HG11	4:AD:134:TYR:CD1	2.45	0.51
4:AD:173:ASP:CB	4:AD:176:LYS:HB2	2.41	0.51
5:AE:37:VAL:HG23	5:AE:47:PHE:CA	2.40	0.51
6:AF:81:ASN:O	6:AF:84:VAL:HG12	2.11	0.51
7:AG:59:GLU:O	7:AG:63:VAL:HG23	2.10	0.51
7:AG:91:ARG:HE	7:AG:93:VAL:HG23	1.74	0.51
9:AI:46:VAL:HA	9:AI:49:GLN:HG3	1.91	0.51
9:AI:87:MET:CG	9:AI:88:GLU:N	2.72	0.51
13:AM:18:LEU:HG	13:AM:33:LEU:CD1	2.41	0.51
13:AM:85:TYR:HA	13:AM:88:LEU:HD12	1.91	0.51
16:AP:76:LYS:O	16:AP:77:GLU:HB2	2.09	0.51
21:AU:4:LYS:O	21:AU:4:LYS:HD2	2.09	0.51
24:AY:149:ILE:HG23	24:AY:153:ASP:HB2	1.92	0.51
1:BA:1087:G:C2	1:BA:1088:G:N7	2.78	0.51
1:BA:1113:C:H2'	1:BA:1114:C:H6	1.74	0.51
1:BA:1317:C:H2'	1:BA:1318:A:O5'	2.11	0.51
1:BA:1361:G:C6	1:BA:1362:A:N7	2.79	0.51
1:BA:1381:U:C6	1:BA:1382:C:C5	2.98	0.51
1:BA:1538:C:H2'	1:BA:1539:C:C5	2.45	0.51
1:BA:16:A:C6	1:BA:17:U:C5	2.98	0.51
1:BA:427:U:H2'	1:BA:428:G:C8	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:451:A:H4'	1:BA:452:A:O4'	2.10	0.51
1:BA:723:U:C4	21:BU:49:ALA:HA	2.46	0.51
8:BH:31:LEU:O	8:BH:32:LYS:C	2.48	0.51
5:BE:82:HIS:CE1	8:BH:95:MET:HE3	2.45	0.51
9:BI:50:PRO:HD3	9:BI:79:ARG:HG2	1.93	0.51
11:BK:123:PRO:O	11:BK:124:LYS:C	2.49	0.51
11:BK:21:HIS:ND1	11:BK:34:THR:HG21	2.26	0.51
20:BT:34:VAL:O	20:BT:35:TYR:C	2.49	0.51
22:BV:23:A:H2'	22:BV:24:G:C8	2.44	0.51
54:C3:54:LEU:O	54:C3:58:ILE:HD12	2.10	0.51
25:CA:1059:G:H3'	25:CA:1060:U:H6	1.76	0.51
25:CA:1816:C:C5	27:CC:61:TYR:CE1	2.99	0.51
25:CA:1922:G:C4	25:CA:1923:U:C6	2.98	0.51
25:CA:2179:C:C4	25:CA:2180:U:C5	2.98	0.51
25:CA:2881:U:C2'	25:CA:2882:A:O5'	2.59	0.51
31:CG:19:ASN:C	31:CG:22:VAL:HG23	2.31	0.51
33:CI:71:LYS:HD3	33:CI:71:LYS:N	2.25	0.51
34:CJ:18:VAL:HG12	34:CJ:19:ASP:N	2.25	0.51
25:CA:2469:A:C4'	37:CM:55:ARG:HH22	2.22	0.51
25:CA:2230:G:H4'	48:CX:29:LEU:HB2	1.92	0.51
52:D1:6:GLU:OE2	52:D1:26:LYS:HB2	2.11	0.51
25:DA:1269:A:H2'	25:DA:1270:C:H6	1.73	0.51
25:DA:1313:U:H4'	25:DA:1332:G:H4'	1.91	0.51
25:DA:1447:C:H1'	25:DA:1545:A:H1'	1.92	0.51
25:DA:1485:U:H2'	25:DA:1486:U:C6	2.45	0.51
25:DA:1495:A:H2'	25:DA:1496:A:C8	2.45	0.51
25:DA:1532:A:C6	25:DA:1533:C:N3	2.78	0.51
25:DA:1779:U:C4	25:DA:1784:A:N7	2.78	0.51
25:DA:1883:U:C4	25:DA:1884:G:C6	2.98	0.51
25:DA:2324:U:H6	25:DA:2324:U:OP2	1.93	0.51
25:DA:2337:G:C4	25:DA:2338:C:C5	2.99	0.51
25:DA:2376:A:N3	39:DO:99:TYR:CE2	2.78	0.51
25:DA:237:C:C2'	25:DA:238:C:H5'	2.41	0.51
25:DA:246:C:H2'	25:DA:247:G:H5'	1.93	0.51
25:DA:276:U:H2'	25:DA:277:G:O5'	2.09	0.51
25:DA:2822:G:O6	38:DN:2:ARG:CG	2.57	0.51
25:DA:783:A:H8	25:DA:784:G:H4'	1.74	0.51
27:DC:231:HIS:HA	27:DC:241:LYS:HE3	1.92	0.51
27:DC:29:PHE:CE2	27:DC:31:PRO:HG2	2.45	0.51
31:DG:100:ASN:O	31:DG:116:LEU:HB2	2.10	0.51
31:DG:88:LEU:HB3	31:DG:93:TYR:HB3	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DJ:35:ARG:HG2	34:DJ:40:HIS:CD2	2.46	0.51
44:DT:7:LEU:HD21	44:DT:46:ALA:N	2.25	0.51
44:DT:69:ARG:HB2	44:DT:74:ILE:CG2	2.40	0.51
44:DT:7:LEU:HD21	44:DT:46:ALA:HB2	1.93	0.51
45:DU:8:ASP:HB3	45:DU:24:VAL:CG2	2.40	0.51
1:AA:1103:C:H2'	1:AA:1104:G:O5'	2.10	0.51
1:AA:112:G:C2'	1:AA:113:G:H5'	2.40	0.51
1:AA:29:U:H5'	1:AA:296:U:OP1	2.11	0.51
1:AA:830:G:O2'	1:AA:831:A:H5'	2.11	0.51
1:AA:864:A:H3'	1:AA:865:A:C8	2.45	0.51
1:AA:880:C:O2'	1:AA:881:G:H5'	2.10	0.51
2:AB:81:ASP:N	2:AB:84:LEU:HB3	2.26	0.51
6:AF:91:ARG:O	6:AF:92:THR:OG1	2.26	0.51
1:AA:1380:U:N3	7:AG:2:ARG:HD3	2.26	0.51
9:AI:85:ALA:C	9:AI:87:MET:N	2.64	0.51
1:BA:1055:A:C6	1:BA:1206:G:C5	2.99	0.51
1:BA:1182:G:H5'	1:BA:1184:G:H5''	1.91	0.51
1:BA:1231:G:C2	1:BA:1232:U:O2	2.63	0.51
1:BA:1251:A:H1'	1:BA:1369:C:O2'	2.10	0.51
1:BA:163:C:H2'	1:BA:163:C:O2	2.11	0.51
1:BA:468:A:H2'	1:BA:469:C:O5'	2.11	0.51
1:BA:489:C:C2	1:BA:490:C:C5	2.99	0.51
1:BA:560:A:C5	5:BE:127:TYR:CE2	2.99	0.51
1:BA:633:G:O2'	1:BA:634:C:H5'	2.11	0.51
1:BA:69:G:C6	1:BA:70:U:O4	2.64	0.51
2:BB:67:LEU:HD13	2:BB:160:LEU:CD1	2.41	0.51
4:BD:186:GLU:HB2	4:BD:189:ASP:OD1	2.10	0.51
5:BE:106:ALA:CB	5:BE:124:ALA:CB	2.88	0.51
5:BE:96:GLN:HE21	5:BE:97:PRO:HD2	1.76	0.51
7:BG:102:TRP:HZ3	7:BG:137:ARG:HB2	1.75	0.51
7:BG:145:GLU:HA	7:BG:148:LYS:HB2	1.93	0.51
7:BG:26:VAL:HG23	7:BG:27:ASN:H	1.75	0.51
8:BH:76:ARG:O	8:BH:77:VAL:HG23	2.10	0.51
9:BI:18:VAL:HG21	9:BI:82:ILE:N	2.25	0.51
10:BJ:29:ALA:HB1	10:BJ:76:ILE:HD13	1.92	0.51
11:BK:79:LYS:O	11:BK:105:ARG:HB3	2.10	0.51
11:BK:13:LYS:HD2	11:BK:14:GLN:O	2.11	0.51
14:BN:51:LEU:O	14:BN:53:ARG:N	2.44	0.51
51:C0:52:LYS:HE2	51:C0:55:ALA:HA	1.92	0.51
25:CA:1176:U:H2'	25:CA:1177:G:C8	2.46	0.51
25:CA:1712:U:C4	25:CA:1713:A:C5	2.99	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:17:G:H2'	25:CA:18:U:C6	2.45	0.51
25:CA:2312:U:H6	25:CA:2312:U:H3'	1.74	0.51
25:CA:282:A:H2'	25:CA:283:G:C8	2.46	0.51
25:CA:782:A:H4'	25:CA:783:A:O5'	2.11	0.51
27:CC:259:ASN:O	27:CC:261:ARG:N	2.43	0.51
28:CD:104:VAL:O	28:CD:105:LYS:HB2	2.11	0.51
28:CD:119:ALA:O	28:CD:162:ALA:HB1	2.10	0.51
28:CD:39:ASP:OD2	28:CD:40:LEU:N	2.44	0.51
32:CH:116:ARG:HG3	32:CH:133:GLN:OE1	2.11	0.51
32:CH:37:VAL:HG23	32:CH:38:PRO:CD	2.41	0.51
33:CI:10:LEU:HD12	33:CI:23:VAL:HG12	1.91	0.51
33:CI:99:LYS:HB3	33:CI:138:VAL:HB	1.92	0.51
33:CI:57:VAL:O	33:CI:68:PHE:HB2	2.11	0.51
44:CT:1:MET:CB	44:CT:2:ILE:HD12	2.41	0.51
49:CY:45:GLN:O	49:CY:46:VAL:CB	2.58	0.51
36:DL:51:GLU:OE1	54:D3:56:LEU:HD13	2.10	0.51
25:DA:1277:G:C5'	38:DN:20:MET:CE	2.87	0.51
25:DA:1874:C:H3'	25:DA:1875:G:H8	1.76	0.51
25:DA:1982:U:O2	25:DA:1982:U:H2'	2.09	0.51
25:DA:2142:A:C2	25:DA:2150:C:N3	2.79	0.51
25:DA:2195:U:N3	25:DA:2196:C:C5	2.79	0.51
25:DA:712:G:N3	25:DA:712:G:H2'	2.26	0.51
25:DA:898:C:H2'	25:DA:899:A:H5'	1.92	0.51
56:DB:59:A:C6	56:DB:60:C:C4	2.98	0.51
56:DB:63:C:O2'	56:DB:64:G:O5'	2.24	0.51
35:DK:69:VAL:O	35:DK:69:VAL:HG23	2.10	0.51
36:DL:56:PRO:O	36:DL:60:ARG:HB3	2.11	0.51
37:DM:111:GLU:C	37:DM:111:GLU:CD	2.70	0.51
44:DT:69:ARG:CG	44:DT:74:ILE:HG22	2.40	0.51
50:DZ:6:ILE:CG2	50:DZ:28:LEU:HD11	2.41	0.51
1:AA:1310:G:O6	1:AA:1327:C:N4	2.44	0.51
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.46	0.51
1:AA:495:A:O4'	1:AA:496:A:C8	2.64	0.51
1:AA:646:G:C6	1:AA:647:C:N4	2.79	0.51
1:AA:66:A:H2'	1:AA:67:C:H5'	1.91	0.51
1:AA:892:A:C6	1:AA:893:C:C4	2.98	0.51
2:AB:224:ARG:O	2:AB:224:ARG:HG2	2.10	0.51
2:AB:63:LYS:NZ	2:AB:87:ASP:OD1	2.44	0.51
2:AB:70:GLY:CA	2:AB:163:ILE:CG2	2.89	0.51
2:AB:95:TRP:CH2	2:AB:99:MET:HG2	2.45	0.51
3:AC:140:ALA:O	3:AC:145:ALA:HB3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:39:ARG:O	3:AC:40:GLN:C	2.49	0.51
4:AD:147:LYS:O	4:AD:148:ALA:C	2.49	0.51
4:AD:54:LEU:CD2	4:AD:55:ARG:N	2.74	0.51
5:AE:132:PRO:HA	5:AE:135:VAL:HG13	1.92	0.51
8:AH:123:GLU:HG2	8:AH:125:ILE:HD12	1.92	0.51
8:AH:82:LEU:HD23	17:AQ:35:LYS:HA	1.92	0.51
10:AJ:29:ALA:HA	10:AJ:32:THR:CG2	2.34	0.51
11:AK:15:VAL:HG13	11:AK:16:SER:H	1.74	0.51
11:AK:58:THR:HB	11:AK:59:PRO:HD2	1.92	0.51
13:AM:13:HIS:CD2	13:AM:41:ASP:HB2	2.46	0.51
14:AN:43:ASN:OD1	14:AN:47:LYS:CE	2.59	0.51
20:AT:47:GLN:O	20:AT:47:GLN:NE2	2.43	0.51
22:AV:17:C:C6	22:AV:17:C:C3'	2.94	0.51
1:BA:108:G:N3	1:BA:108:G:C5'	2.74	0.51
1:BA:1177:G:O6	1:BA:1178:G:C2	2.63	0.51
1:BA:1177:G:C6	1:BA:1178:G:C4	2.98	0.51
1:BA:1240:U:H3'	1:BA:1241:G:H5'	1.91	0.51
1:BA:338:A:H2'	1:BA:339:C:H6	1.75	0.51
1:BA:399:G:H2'	1:BA:400:C:C6	2.45	0.51
1:BA:622:A:H3'	1:BA:623:C:C6	2.45	0.51
9:BI:25:GLY:H	9:BI:58:GLU:HA	1.75	0.51
13:BM:53:ASP:HA	13:BM:56:ARG:CB	2.33	0.51
15:BO:80:LEU:CD1	15:BO:84:LEU:HD22	2.41	0.51
19:BS:38:THR:HG23	19:BS:69:LYS:HD3	1.93	0.51
22:BV:63:G:H2'	22:BV:64:A:C8	2.45	0.51
25:CA:1045:C:C3'	25:CA:1046:A:H5'	2.40	0.51
25:CA:1078:U:H1'	25:CA:1088:A:N1	2.24	0.51
25:CA:1138:G:H5''	25:CA:1139:G:OP2	2.10	0.51
25:CA:246:C:H2'	25:CA:247:G:C5'	2.41	0.51
25:CA:2582:G:C2	25:CA:2583:G:C8	2.98	0.51
25:CA:31:C:H2'	25:CA:32:C:H5'	1.92	0.51
25:CA:674:G:OP2	60:CA:3333:HOH:O	2.19	0.51
25:CA:709:U:H2'	25:CA:710:U:C6	2.46	0.51
27:CC:226:PRO:HD3	27:CC:233:GLY:CA	2.37	0.51
32:CH:24:GLY:O	32:CH:27:ARG:O	2.29	0.51
32:CH:33:GLN:O	32:CH:34:GLY:O	2.29	0.51
33:CI:98:GLY:O	33:CI:138:VAL:HG23	2.11	0.51
39:CO:24:THR:CG2	39:CO:42:PRO:HG3	2.40	0.51
25:CA:84:A:H5''	45:CU:5:ARG:HD3	1.91	0.51
25:CA:2330:G:O3'	47:CW:40:LYS:HE3	2.10	0.51
47:CW:71:LYS:O	47:CW:72:ASN:HB2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CZ:23:LEU:HD11	50:CZ:53:MET:CE	2.41	0.51
25:DA:1028:A:N3	25:DA:2486:C:O2'	2.38	0.51
25:DA:1117:C:O2	25:DA:1117:C:H2'	2.10	0.51
25:DA:1220:G:H2'	25:DA:1221:C:O5'	2.10	0.51
25:DA:1361:G:C6	25:DA:1371:G:N2	2.79	0.51
25:DA:1469:A:N1	25:DA:1470:A:C6	2.78	0.51
25:DA:1483:G:N3	25:DA:1484:U:C6	2.79	0.51
25:DA:1429:G:N3	25:DA:1568:G:C2	2.79	0.51
25:DA:1581:G:C2'	25:DA:1582:C:O5'	2.59	0.51
25:DA:1635:A:C2	25:DA:1636:U:H1'	2.46	0.51
25:DA:184:C:H2'	25:DA:185:G:C8	2.45	0.51
25:DA:2209:G:C5	25:DA:2210:U:C5	2.99	0.51
25:DA:2197:U:C5	25:DA:2224:G:C6	2.99	0.51
25:DA:686:U:H1'	53:D2:6:GLN:O	2.11	0.51
27:DC:198:GLU:O	27:DC:199:HIS:C	2.48	0.51
28:DD:57:ALA:O	28:DD:60:VAL:HG12	2.10	0.51
30:DF:33:ILE:N	30:DF:90:LEU:O	2.43	0.51
31:DG:61:TRP:O	31:DG:64:ALA:HB3	2.11	0.51
32:DH:32:PRO:O	32:DH:33:GLN:HB2	2.09	0.51
35:DK:115:ILE:O	35:DK:118:LEU:O	2.29	0.51
36:DL:111:ILE:CD1	36:DL:111:ILE:N	2.74	0.51
37:DM:22:GLN:O	37:DM:24:THR:N	2.44	0.51
56:DB:29:A:OP2	39:DO:31:THR:HG23	2.11	0.51
44:DT:40:LYS:HG3	44:DT:60:THR:HG23	1.91	0.51
1:AA:1539:C:O3'	21:AU:17:ARG:HG2	2.10	0.51
1:AA:497:G:H2'	1:AA:498:A:C8	2.45	0.51
2:AB:16:GLY:HA2	2:AB:40:ILE:HG23	1.91	0.51
2:AB:209:VAL:HG23	2:AB:210:THR:H	1.74	0.51
4:AD:169:TRP:HB2	4:AD:183:ARG:HG3	1.92	0.51
4:AD:35:GLN:O	4:AD:36:ALA:HB2	2.11	0.51
5:AE:15:ILE:O	5:AE:16:ALA:HB2	2.10	0.51
6:AF:37:HIS:N	6:AF:37:HIS:CD2	2.79	0.51
6:AF:62:MET:O	6:AF:63:ASN:HB2	2.10	0.51
8:AH:35:ILE:CD1	8:AH:125:ILE:HG21	2.41	0.51
8:AH:13:ILE:O	8:AH:14:ARG:C	2.48	0.51
9:AI:40:ARG:H	9:AI:44:ARG:CB	2.24	0.51
15:AO:3:SER:HB2	15:AO:6:ALA:HB2	1.92	0.51
1:BA:1228:C:OP1	13:BM:112:ARG:HA	2.10	0.51
1:BA:1361:G:C5	1:BA:1362:A:C8	2.99	0.51
1:BA:172:A:C5	1:BA:174:A:N7	2.79	0.51
1:BA:862:C:H1'	1:BA:874:G:H5''	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:70:GLY:CA	2:BB:163:ILE:CG2	2.89	0.51
2:BB:70:GLY:HA3	2:BB:163:ILE:HG21	1.93	0.51
5:BE:140:ILE:C	5:BE:142:GLY:H	2.12	0.51
5:BE:15:ILE:HD11	5:BE:112:ALA:HB1	1.92	0.51
5:BE:23:THR:HA	5:BE:28:ARG:HA	1.91	0.51
6:BF:32:ALA:O	6:BF:34:GLY:N	2.43	0.51
6:BF:61:LEU:HD12	6:BF:62:MET:N	2.26	0.51
10:BJ:26:VAL:O	10:BJ:29:ALA:HB3	2.10	0.51
11:BK:63:GLN:O	11:BK:67:GLU:HG3	2.11	0.51
17:BQ:59:GLU:OE2	17:BQ:76:ARG:HD3	2.10	0.51
25:CA:1559:U:C3'	25:CA:1560:G:H5'	2.41	0.51
25:CA:1564:C:O2'	25:CA:1565:C:H5'	2.11	0.51
25:CA:1838:C:C4	25:CA:1899:A:C4	2.98	0.51
25:CA:2294:G:H2'	25:CA:2295:C:H6	1.75	0.51
25:CA:2334:U:O4	39:CO:16:ARG:CZ	2.59	0.51
25:CA:2642:G:N2	25:CA:2773:C:C2	2.78	0.51
25:CA:528:A:C8	25:CA:528:A:H3'	2.46	0.51
25:CA:627:A:C6	25:CA:637:A:C8	2.99	0.51
25:CA:196:A:H2'	25:CA:805:G:O6	2.10	0.51
29:CE:189:THR:HG23	29:CE:190:ALA:N	2.25	0.51
30:CF:157:THR:CG2	30:CF:159:ALA:CB	2.88	0.51
30:CF:51:ASN:HD22	30:CF:146:ASP:CB	2.24	0.51
31:CG:123:GLU:OE2	31:CG:124:CYS:HB2	2.11	0.51
33:CI:114:ALA:O	33:CI:115:ASP:HB2	2.11	0.51
33:CI:75:ALA:CB	33:CI:128:ILE:CG2	2.87	0.51
34:CJ:31:GLU:OE2	34:CJ:35:ARG:HD2	2.10	0.51
45:CU:38:ILE:HG22	45:CU:39:ASN:N	2.25	0.51
46:CV:2:PHE:CD1	46:CV:50:MET:CE	2.93	0.51
25:DA:1362:C:O2'	25:DA:1363:C:H5'	2.11	0.51
25:DA:1414:C:H3'	25:DA:1414:C:C6	2.46	0.51
25:DA:1503:A:N6	25:DA:1504:A:N6	2.59	0.51
25:DA:1783:A:N7	60:DA:3695:HOH:O	2.34	0.51
25:DA:2278:A:H2'	25:DA:2279:G:O5'	2.10	0.51
25:DA:2681:C:C4	25:DA:2724:U:C5	2.99	0.51
25:DA:2852:G:C2'	25:DA:2853:C:O4'	2.58	0.51
25:DA:586:A:N1	25:DA:809:G:O2'	2.34	0.51
25:DA:611:C:H2'	25:DA:612:G:H5'	1.92	0.51
25:DA:630:G:C5'	25:DA:631:A:OP2	2.59	0.51
25:DA:68:G:N2	25:DA:74:A:O4'	2.44	0.51
25:DA:751:A:H5'	43:DS:90:LYS:HA	1.92	0.51
36:DL:91:ASP:HB3	36:DL:93:ASN:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:32:PRO:HA	39:DO:102:ARG:HH12	1.76	0.51
39:DO:75:GLY:HA2	39:DO:106:LEU:CD2	2.41	0.51
39:DO:7:ARG:HD2	39:DO:97:PHE:CZ	2.46	0.51
41:DQ:86:SER:HB3	42:DR:51:VAL:HA	1.91	0.51
44:DT:29:THR:OG1	44:DT:86:THR:HG22	2.11	0.51
44:DT:74:ILE:HD12	44:DT:74:ILE:C	2.31	0.51
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.45	0.51
1:AA:1533:C:C6	1:AA:1533:C:OP2	2.64	0.51
1:AA:570:G:H5''	1:AA:571:U:OP2	2.10	0.51
1:AA:842:U:H3'	1:AA:843:U:C5'	2.41	0.51
2:AB:18:GLN:HG2	2:AB:189:ASN:ND2	2.24	0.51
3:AC:166:TRP:O	3:AC:167:TYR:HD1	1.94	0.51
3:AC:41:TYR:CD1	3:AC:42:LEU:CD1	2.94	0.51
4:AD:131:ILE:CD1	4:AD:134:TYR:N	2.73	0.51
4:AD:16:THR:HG22	4:AD:17:ASP:C	2.30	0.51
4:AD:195:ASN:O	4:AD:198:LEU:HB2	2.11	0.51
4:AD:49:ASP:O	4:AD:53:GLN:CB	2.58	0.51
4:AD:61:ARG:HG2	4:AD:71:PHE:HD2	1.71	0.51
7:AG:110:ARG:HD2	7:AG:122:GLU:HG2	1.92	0.51
8:AH:46:GLU:O	8:AH:47:ASP:HB2	2.11	0.51
13:AM:9:PRO:O	13:AM:10:ASP:HB2	2.11	0.51
19:AS:70:LEU:O	19:AS:70:LEU:HD13	2.11	0.51
1:BA:1242:G:C2'	1:BA:1243:C:H5'	2.39	0.51
1:BA:1275:A:C5	1:BA:1276:G:C5	2.99	0.51
1:BA:1275:A:C5	1:BA:1276:G:C8	2.98	0.51
2:BB:14:HIS:O	2:BB:16:GLY:N	2.44	0.51
2:BB:150:ILE:O	2:BB:151:LYS:C	2.49	0.51
2:BB:166:ASP:OD2	2:BB:190:SER:HA	2.11	0.51
2:BB:207:ARG:O	2:BB:211:LEU:N	2.44	0.51
4:BD:170:LEU:HD12	4:BD:170:LEU:H	1.75	0.51
4:BD:45:PRO:O	4:BD:46:ARG:C	2.50	0.51
8:BH:21:LYS:HA	8:BH:21:LYS:HE2	1.91	0.51
9:BI:88:GLU:HG3	9:BI:89:TYR:H	1.75	0.51
10:BJ:17:LEU:HA	10:BJ:20:GLN:HG3	1.93	0.51
10:BJ:71:LEU:O	10:BJ:72:ARG:CG	2.59	0.51
12:BL:13:ARG:C	12:BL:14:LYS:O	2.47	0.51
12:BL:49:ARG:HG3	12:BL:89:LEU:HD11	1.93	0.51
15:BO:38:LEU:HD12	15:BO:41:HIS:HB2	1.92	0.51
20:BT:28:ARG:HA	20:BT:31:ILE:HD12	1.93	0.51
25:CA:1809:A:H2'	25:CA:1810:A:C8	2.45	0.51
25:CA:2578:G:OP2	25:CA:2578:G:H4'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2851:A:N7	25:CA:2852:G:N7	2.58	0.51
25:CA:2895:G:H2'	25:CA:2896:C:C6	2.46	0.51
27:CC:120:ASP:OD1	27:CC:120:ASP:N	2.44	0.51
30:CF:105:ILE:HG13	30:CF:106:ALA:N	2.25	0.51
30:CF:29:ARG:O	30:CF:158:THR:HG23	2.11	0.51
30:CF:48:LEU:HA	30:CF:51:ASN:CG	2.31	0.51
31:CG:127:GLN:HE21	31:CG:127:GLN:HA	1.76	0.51
33:CI:105:LEU:HD23	33:CI:108:ILE:HG21	1.93	0.51
33:CI:57:VAL:HG11	33:CI:59:THR:OG1	2.11	0.51
34:CJ:21:THR:HA	34:CJ:61:LYS:HB3	1.92	0.51
34:CJ:4:PHE:CD1	34:CJ:4:PHE:C	2.84	0.51
37:CM:21:ALA:HB1	37:CM:100:LYS:HG2	1.93	0.51
54:D3:10:ALA:C	54:D3:12:ARG:H	2.15	0.51
54:D3:37:THR:HA	54:D3:40:LYS:HE3	1.92	0.51
25:DA:1760:C:C2'	25:DA:1761:C:H5'	2.40	0.51
25:DA:2042:A:H2'	25:DA:2043:C:H5'	1.93	0.51
25:DA:2074:U:H2'	25:DA:2075:U:C6	2.46	0.51
25:DA:2196:C:H2'	25:DA:2196:C:O2	2.11	0.51
25:DA:2204:G:C4	25:DA:2205:A:N7	2.79	0.51
25:DA:2204:G:C5	25:DA:2205:A:N7	2.79	0.51
25:DA:2422:C:C4	25:DA:2424:C:C4	2.99	0.51
25:DA:2602:A:H4'	25:DA:2603:G:O5'	2.11	0.51
25:DA:269:C:H2'	25:DA:270:A:C5'	2.40	0.51
25:DA:2769:U:C2'	25:DA:2770:G:H5'	2.41	0.51
25:DA:292:U:C4	25:DA:293:U:C5	2.99	0.51
25:DA:581:C:OP1	41:DQ:32:ARG:HB2	2.10	0.51
25:DA:999:U:P	60:DA:3362:HOH:O	2.69	0.51
27:DC:141:HIS:HB3	27:DC:194:VAL:HG12	1.92	0.51
29:DE:130:LYS:O	29:DE:131:THR:C	2.49	0.51
29:DE:15:SER:HB2	29:DE:18:THR:HB	1.91	0.51
30:DF:106:ALA:HB1	30:DF:136:ILE:O	2.11	0.51
31:DG:88:LEU:N	31:DG:88:LEU:CD1	2.74	0.51
32:DH:60:GLU:HA	32:DH:60:GLU:OE2	2.11	0.51
33:DI:12:VAL:CG2	33:DI:16:MET:HB2	2.41	0.51
33:DI:98:GLY:C	33:DI:137:LEU:HA	2.31	0.51
33:DI:14:ALA:HB3	33:DI:50:LYS:HA	1.92	0.51
34:DJ:3:THR:CG2	34:DJ:4:PHE:N	2.73	0.51
34:DJ:58:ASN:HA	34:DJ:126:ALA:O	2.10	0.51
37:DM:49:ALA:CB	37:DM:124:LEU:CD2	2.89	0.51
50:DZ:1:ALA:HA	50:DZ:2:LYS:HE2	1.93	0.51
1:AA:1057:G:O2'	1:AA:1058:G:H5'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.11	0.51
1:AA:1439:G:C6	1:AA:1440:U:C4	2.99	0.51
1:AA:1444:U:O2	1:AA:1444:U:C2'	2.59	0.51
1:AA:109:A:C8	1:AA:326:G:H2'	2.46	0.51
1:AA:33:A:H2'	1:AA:34:C:C6	2.46	0.51
1:AA:353:A:C2'	1:AA:354:G:OP2	2.59	0.51
1:AA:429:U:OP2	4:AD:31:CYS:O	2.29	0.51
1:AA:41:G:O2'	1:AA:42:G:H5'	2.11	0.51
1:AA:441:A:H2'	1:AA:442:G:H5'	1.93	0.51
1:AA:470:C:N3	1:AA:471:U:C5	2.79	0.51
1:AA:451:A:H61	1:AA:481:G:C5'	2.23	0.51
1:AA:446:G:C2	1:AA:489:C:C2	2.98	0.51
1:AA:809:G:H2'	1:AA:810:C:O5'	2.11	0.51
2:AB:127:LYS:HG3	2:AB:128:LEU:N	2.26	0.51
2:AB:141:GLU:O	2:AB:145:ASN:OD1	2.29	0.51
7:AG:20:GLU:HA	7:AG:20:GLU:OE2	2.11	0.51
8:AH:6:ILE:HG23	8:AH:10:LEU:HD21	1.93	0.51
10:AJ:87:LEU:HD13	10:AJ:87:LEU:C	2.32	0.51
11:AK:95:THR:O	11:AK:99:LEU:HD23	2.11	0.51
13:AM:33:LEU:HD23	13:AM:38:ILE:HB	1.93	0.51
14:AN:3:GLN:HA	14:AN:6:LYS:CE	2.40	0.51
22:AV:59:U:H2'	22:AV:60:U:C6	2.46	0.51
1:BA:1130:A:H1'	1:BA:1146:A:C2	2.45	0.51
1:BA:1411:C:H2'	1:BA:1412:C:H6	1.76	0.51
1:BA:1540:U:O2'	21:BU:17:ARG:HG2	2.11	0.51
1:BA:328:C:C2'	1:BA:328:C:O2	2.54	0.51
1:BA:443:C:O2'	1:BA:444:G:H5'	2.11	0.51
1:BA:5:U:C5	1:BA:5:U:OP1	2.64	0.51
1:BA:655:A:O2'	1:BA:755:G:H5'	2.11	0.51
1:BA:806:C:H2'	1:BA:807:A:C8	2.46	0.51
1:BA:919:A:O2'	1:BA:920:U:H5'	2.11	0.51
1:BA:96:U:O2'	1:BA:97:G:H5'	2.11	0.51
3:BC:114:LEU:O	3:BC:116:ALA:N	2.44	0.51
3:BC:149:LYS:O	3:BC:200:TRP:HE3	1.94	0.51
5:BE:45:VAL:HG13	5:BE:116:VAL:HG23	1.93	0.51
5:BE:96:GLN:O	5:BE:122:VAL:HA	2.11	0.51
6:BF:11:HIS:ND1	6:BF:12:PRO:HD2	2.25	0.51
7:BG:87:PRO:HB3	7:BG:144:ALA:HB1	1.93	0.51
1:BA:130:A:OP1	17:BQ:64:ARG:HD2	2.11	0.51
25:CA:1277:G:H5'	38:CN:20:MET:HE2	1.93	0.51
25:CA:1318:U:H2'	25:CA:1319:C:C6	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1483:G:C2	25:CA:1507:C:C2	2.99	0.51
25:CA:151:C:OP1	25:CA:1359:A:O2'	2.28	0.51
25:CA:1547:C:C6	25:CA:1547:C:H3'	2.46	0.51
25:CA:1678:A:H2'	25:CA:1679:A:O4'	2.10	0.51
25:CA:1735:A:N3	25:CA:1736:U:C6	2.78	0.51
25:CA:1753:G:OP1	40:CP:92:ARG:HD3	2.10	0.51
25:CA:1826:G:C5	25:CA:1827:U:C5	2.99	0.51
25:CA:2027:G:C5	25:CA:2028:U:C5	2.99	0.51
25:CA:2139:U:O2'	25:CA:2140:G:H5'	2.11	0.51
25:CA:2248:C:H5''	25:CA:2249:U:OP2	2.11	0.51
25:CA:435:C:C2'	25:CA:436:C:H5'	2.41	0.51
25:CA:871:U:H2'	25:CA:872:U:C6	2.45	0.51
26:CB:111:U:H2'	26:CB:112:G:C8	2.46	0.51
26:CB:20:G:H2'	26:CB:21:G:C5'	2.41	0.51
27:CC:244:VAL:HG12	27:CC:250:GLN:HA	1.93	0.51
27:CC:259:ASN:O	27:CC:260:LYS:HB2	2.10	0.51
28:CD:172:VAL:HG21	28:CD:194:PRO:HD3	1.92	0.51
33:CI:66:PHE:HD2	33:CI:66:PHE:N	2.08	0.51
36:CL:127:VAL:CG1	36:CL:132:ARG:HB2	2.41	0.51
37:CM:28:PHE:HB3	37:CM:64:TRP:CE2	2.46	0.51
42:CR:64:VAL:HG22	42:CR:96:VAL:HA	1.93	0.51
49:CY:23:ARG:HA	49:CY:27:ASN:ND2	2.26	0.51
25:DA:1095:A:C2	33:DI:29:GLN:HG2	2.46	0.51
25:DA:1335:C:C2'	25:DA:1336:A:H5'	2.42	0.51
25:DA:1446:C:O2'	25:DA:1447:C:H5'	2.10	0.51
25:DA:1394:U:H4'	25:DA:1603:A:H4'	1.93	0.51
25:DA:2194:U:C2	25:DA:2195:U:C6	2.99	0.51
25:DA:2511:U:C5	25:DA:2512:C:C5	2.99	0.51
25:DA:2663:G:C2'	25:DA:2664:G:H5'	2.40	0.51
25:DA:269:C:C2'	25:DA:270:A:H5'	2.41	0.51
25:DA:2794:C:H2'	25:DA:2794:C:O2	2.09	0.51
25:DA:343:C:C2'	25:DA:344:A:H5'	2.41	0.51
25:DA:622:G:H2'	25:DA:623:C:C6	2.45	0.51
27:DC:123:ILE:CD1	27:DC:135:PRO:CD	2.89	0.51
31:DG:94:ARG:O	31:DG:95:ALA:HB2	2.11	0.51
36:DL:110:VAL:CG2	36:DL:127:VAL:HG22	2.40	0.51
42:DR:82:HIS:O	42:DR:82:HIS:CG	2.62	0.51
44:DT:3:ARG:HB3	44:DT:6:ARG:HB3	1.93	0.51
45:DU:82:VAL:HG12	45:DU:83:GLY:N	2.25	0.51
1:AA:1215:G:C2'	1:AA:1216:A:H5'	2.41	0.50
1:AA:1226:C:N4	13:AM:102:LYS:HG3	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1461:G:H2'	1:AA:1462:C:O4'	2.11	0.50
1:AA:233:C:H2'	1:AA:234:C:H6	1.75	0.50
1:AA:240:G:H4'	1:AA:240:G:OP1	2.11	0.50
1:AA:298:A:N6	1:AA:299:G:N1	2.58	0.50
1:AA:35:G:C4	1:AA:36:C:C5	2.98	0.50
1:AA:398:U:O2'	1:AA:399:G:H5'	2.11	0.50
1:AA:98:A:H2'	1:AA:99:C:C6	2.46	0.50
1:AA:413:G:N1	4:AD:32:LYS:CD	2.74	0.50
5:AE:80:LEU:HD12	5:AE:146:MET:SD	2.51	0.50
6:AF:18:VAL:CB	6:AF:19:PRO:CD	2.87	0.50
10:AJ:49:PHE:HD1	10:AJ:49:PHE:N	2.09	0.50
10:AJ:6:ILE:CD1	10:AJ:76:ILE:HB	2.41	0.50
13:AM:10:ASP:CG	13:AM:11:HIS:N	2.65	0.50
18:AR:54:LEU:HD11	18:AR:58:ILE:HD11	1.93	0.50
6:AF:88:MET:HB2	18:AR:63:TYR:HE2	1.75	0.50
21:AU:27:VAL:HG12	21:AU:30:GLU:OE1	2.11	0.50
1:BA:1075:U:H2'	1:BA:1076:U:H6	1.76	0.50
1:BA:1099:G:C5	1:BA:1100:C:C5	2.99	0.50
1:BA:1171:A:H2'	1:BA:1172:C:C6	2.45	0.50
1:BA:1237:C:H2'	1:BA:1238:A:OP1	2.11	0.50
1:BA:198:G:C4	1:BA:199:A:C8	2.98	0.50
1:BA:258:G:H2'	1:BA:259:G:O4'	2.12	0.50
1:BA:465:A:C6	1:BA:466:A:C5	2.99	0.50
1:BA:673:A:H2'	1:BA:674:G:O4'	2.11	0.50
1:BA:934:C:H5''	60:BA:1828:HOH:O	2.11	0.50
2:BB:21:TYR:O	2:BB:22:TRP:C	2.48	0.50
2:BB:95:TRP:CE3	2:BB:96:LEU:C	2.85	0.50
3:BC:66:THR:HG23	3:BC:101:ASN:HB2	1.93	0.50
4:BD:77:GLU:OE1	4:BD:77:GLU:CA	2.60	0.50
5:BE:80:LEU:HA	5:BE:146:MET:CE	2.41	0.50
6:BF:45:ARG:O	6:BF:56:LYS:HA	2.11	0.50
8:BH:19:ALA:O	8:BH:21:LYS:N	2.44	0.50
11:BK:107:THR:HG22	11:BK:108:ASN:CG	2.32	0.50
12:BL:73:LEU:HD21	12:BL:103:CYS:SG	2.51	0.50
13:BM:28:ARG:HG3	13:BM:62:PHE:HE2	1.75	0.50
14:BN:35:ALA:CB	14:BN:41:ARG:HB2	2.41	0.50
3:BC:19:SER:O	14:BN:94:PRO:HB3	2.11	0.50
19:BS:13:HIS:CD2	19:BS:13:HIS:H	2.29	0.50
21:BU:40:PRO:O	21:BU:44:ARG:HB2	2.11	0.50
23:BX:8:A:N6	23:BX:9:G:C6	2.79	0.50
55:C4:10:LEU:N	55:C4:10:LEU:HD23	2.24	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1088:A:N3	25:CA:1088:A:H3'	2.26	0.50
25:CA:1106:G:C6	25:CA:1107:G:C5	3.00	0.50
25:CA:137:U:O2'	25:CA:138:U:P	2.70	0.50
25:CA:1734:G:C4	25:CA:1735:A:N7	2.79	0.50
25:CA:2120:G:C2'	25:CA:2121:G:H5'	2.41	0.50
25:CA:2371:G:O2'	52:C1:45:HIS:HD2	1.93	0.50
25:CA:2581:G:C4	25:CA:2610:C:C5	2.99	0.50
25:CA:2656:U:H2'	25:CA:2656:U:O2	2.10	0.50
25:CA:298:G:H5''	25:CA:299:A:OP1	2.11	0.50
27:CC:42:ARG:HG2	27:CC:42:ARG:HH11	1.73	0.50
29:CE:118:LEU:CD1	29:CE:188:MET:HG3	2.41	0.50
35:CK:43:ILE:HD12	35:CK:56:ASP:HB2	1.93	0.50
35:CK:13:ASN:ND2	35:CK:98:ARG:HG3	2.26	0.50
39:CO:56:LYS:O	39:CO:58:ILE:N	2.43	0.50
25:DA:1122:G:C2'	25:DA:1122:G:N3	2.70	0.50
25:DA:1227:G:O2'	25:DA:1228:G:H5'	2.11	0.50
25:DA:122:G:H2'	25:DA:123:G:H5'	1.92	0.50
25:DA:1336:A:C2'	25:DA:1337:G:O5'	2.59	0.50
25:DA:1600:C:O2'	25:DA:1601:G:H5'	2.10	0.50
25:DA:1809:A:H2'	25:DA:1810:A:C8	2.44	0.50
25:DA:1833:C:H2'	25:DA:1834:U:H6	1.76	0.50
25:DA:1878:G:O2'	25:DA:1879:C:H5'	2.11	0.50
25:DA:2126:A:C5	25:DA:2162:G:C6	2.98	0.50
25:DA:2403:C:C2	25:DA:2404:U:C6	2.99	0.50
25:DA:2714:G:C2'	25:DA:2715:C:H5'	2.41	0.50
25:DA:323:C:C4	25:DA:333:G:C8	2.99	0.50
25:DA:645:C:O2'	25:DA:646:U:O5'	2.29	0.50
25:DA:849:A:C4	25:DA:930:G:N2	2.79	0.50
13:BM:6:ILE:HG12	30:DF:111:ARG:HD3	1.93	0.50
30:DF:65:LEU:HD12	30:DF:66:ILE:N	2.26	0.50
31:DG:144:ALA:O	31:DG:145:ALA:C	2.49	0.50
31:DG:162:ARG:NH2	31:DG:168:VAL:HG21	2.25	0.50
34:DJ:140:LEU:C	34:DJ:140:LEU:HD12	2.32	0.50
37:DM:107:GLY:O	37:DM:108:VAL:HG22	2.11	0.50
38:DN:52:ILE:HG21	38:DN:94:TYR:CD2	2.46	0.50
39:DO:9:ARG:HG3	39:DO:10:ARG:N	2.26	0.50
39:DO:98:GLN:O	39:DO:100:HIS:N	2.44	0.50
40:DP:105:LYS:HA	40:DP:108:ARG:CD	2.42	0.50
43:DS:59:GLU:HA	43:DS:64:ALA:HA	1.92	0.50
44:DT:61:LEU:C	44:DT:61:LEU:HD12	2.31	0.50
57:DW:53:HIS:N	57:DW:53:HIS:CD2	2.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DY:18:LEU:HD21	49:DY:22:LEU:CD2	2.41	0.50
1:AA:1123:U:O3'	10:AJ:38:GLY:HA3	2.10	0.50
1:AA:1241:G:C4	1:AA:1242:G:C8	2.99	0.50
1:AA:1287:A:C6	1:AA:1288:A:C6	2.98	0.50
1:AA:1302:C:C6	13:AM:16:ILE:HD13	2.46	0.50
1:AA:1306:A:C8	1:AA:1307:U:C5	2.99	0.50
1:AA:155:A:C2	1:AA:167:A:C2	2.99	0.50
1:AA:22:G:H2'	1:AA:23:C:O4'	2.11	0.50
1:AA:537:G:OP1	12:AL:109:ARG:NH2	2.45	0.50
1:AA:763:G:C5	1:AA:764:C:C5	3.00	0.50
1:AA:77:A:H2'	1:AA:78:A:N7	2.26	0.50
1:AA:830:G:C2'	1:AA:831:A:H5'	2.41	0.50
2:AB:147:LEU:C	2:AB:150:ILE:HG22	2.32	0.50
3:AC:77:GLY:O	3:AC:79:LYS:N	2.44	0.50
4:AD:24:VAL:C	4:AD:25:ARG:O	2.49	0.50
4:AD:57:LYS:HD2	4:AD:57:LYS:C	2.32	0.50
5:AE:102:THR:HG22	5:AE:103:GLY:H	1.73	0.50
5:AE:14:LEU:O	5:AE:14:LEU:HD12	2.11	0.50
1:AA:1380:U:C4	7:AG:2:ARG:HD3	2.47	0.50
10:AJ:52:LEU:HD21	10:AJ:59:LYS:HA	1.93	0.50
14:AN:13:VAL:O	14:AN:16:ALA:HB3	2.11	0.50
20:AT:54:GLN:HB3	20:AT:55:PRO:HD3	1.94	0.50
22:AV:52:G:N3	22:AV:52:G:H2'	2.26	0.50
1:BA:1126:U:H1'	1:BA:1281:C:C6	2.46	0.50
1:BA:1309:G:C6	1:BA:1329:A:N1	2.79	0.50
1:BA:248:C:C4	1:BA:249:U:C5	2.99	0.50
1:BA:594:U:C2'	1:BA:595:A:H8	2.25	0.50
1:BA:890:G:OP1	1:BA:890:G:H4'	2.11	0.50
2:BB:146:SER:OG	2:BB:147:LEU:HG	2.11	0.50
5:BE:104:ILE:H	5:BE:121:ASN:HA	1.76	0.50
5:BE:19:ARG:HG2	5:BE:20:VAL:N	2.26	0.50
7:BG:27:ASN:O	7:BG:30:MET:HB3	2.11	0.50
1:BA:1350:A:OP2	9:BI:119:LYS:HD3	2.10	0.50
9:BI:126:PHE:CD2	9:BI:126:PHE:C	2.81	0.50
10:BJ:36:VAL:HG22	10:BJ:76:ILE:HG23	1.93	0.50
13:BM:56:ARG:O	13:BM:59:VAL:HG13	2.11	0.50
16:BP:43:ALA:O	16:BP:44:SER:CB	2.58	0.50
18:BR:35:SER:CB	18:BR:37:LYS:HD2	2.41	0.50
20:BT:69:ASN:C	20:BT:71:ALA:N	2.62	0.50
1:BA:108:G:C6	20:BT:9:ARG:HG2	2.45	0.50
52:C1:3:GLY:O	52:C1:4:ILE:HB	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1060:U:O4'	25:CA:1062:G:C5'	2.59	0.50
25:CA:1584:U:H3'	25:CA:1584:U:O2	2.11	0.50
25:CA:1869:G:C2'	25:CA:1870:C:H5'	2.41	0.50
25:CA:21:A:H2'	25:CA:22:C:O5'	2.11	0.50
25:CA:2304:G:H2'	25:CA:2305:U:H5''	1.92	0.50
25:CA:305:C:H6	25:CA:305:C:O5'	1.95	0.50
25:CA:658:U:C2'	25:CA:659:G:O5'	2.60	0.50
29:CE:126:VAL:HG21	29:CE:133:LEU:HB2	1.93	0.50
29:CE:5:LEU:N	29:CE:5:LEU:HD12	2.25	0.50
38:CN:67:PHE:O	38:CN:71:ARG:HA	2.10	0.50
45:CU:41:VAL:O	45:CU:59:GLU:HA	2.11	0.50
25:DA:1194:A:C2'	25:DA:1195:G:O5'	2.59	0.50
25:DA:1541:C:O2'	25:DA:1542:U:H5'	2.11	0.50
25:DA:2055:C:H5'	25:DA:2056:G:H5''	1.93	0.50
25:DA:2210:U:O2	25:DA:2212:A:C8	2.65	0.50
25:DA:2457:U:C4	25:DA:2458:G:C6	2.99	0.50
25:DA:2678:C:O5'	25:DA:2678:C:H6	1.93	0.50
25:DA:278:A:H2'	25:DA:278:A:N3	2.25	0.50
28:DD:103:ASP:OD2	28:DD:104:VAL:N	2.45	0.50
29:DE:2:GLU:OE1	29:DE:13:THR:HA	2.10	0.50
29:DE:145:ASP:O	29:DE:184:ASP:HB2	2.11	0.50
31:DG:26:LYS:HB3	31:DG:31:GLU:HG3	1.91	0.50
32:DH:4:ILE:O	32:DH:36:ALA:HA	2.11	0.50
34:DJ:117:ALA:O	34:DJ:120:ARG:N	2.44	0.50
41:DQ:51:GLN:O	41:DQ:52:ARG:C	2.46	0.50
44:DT:34:VAL:HG22	44:DT:81:LYS:HB3	1.94	0.50
1:AA:1151:A:O2'	1:AA:1152:A:P	2.69	0.50
1:AA:1304:G:C5	1:AA:1305:G:N1	2.80	0.50
1:AA:1385:G:C6	1:AA:1386:G:C5	2.99	0.50
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.46	0.50
1:AA:257:G:C2	1:AA:270:A:C2	3.00	0.50
1:AA:451:A:O4'	1:AA:452:A:N3	2.44	0.50
1:AA:590:U:H2'	1:AA:591:U:C6	2.46	0.50
2:AB:147:LEU:C	2:AB:150:ILE:CG2	2.79	0.50
2:AB:32:GLY:HA3	2:AB:38:HIS:CB	2.42	0.50
6:AF:21:MET:O	6:AF:22:ILE:C	2.47	0.50
8:AH:52:GLY:HA3	8:AH:56:PRO:CA	2.35	0.50
16:AP:12:LYS:HG2	16:AP:13:LYS:HG2	1.92	0.50
16:AP:22:ALA:HA	16:AP:33:ILE:HG13	1.93	0.50
17:AQ:21:VAL:CG2	17:AQ:22:VAL:N	2.74	0.50
20:AT:46:ALA:O	20:AT:47:GLN:C	2.48	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:16:ARG:NH1	21:AU:19:LYS:CG	2.74	0.50
22:AV:58:A:C2	22:AV:61:C:C6	2.99	0.50
1:BA:1073:U:C4	1:BA:1074:G:N7	2.80	0.50
1:BA:110:C:O2	1:BA:110:C:C2'	2.58	0.50
1:BA:1372:U:H2'	1:BA:1373:G:O4'	2.11	0.50
1:BA:158:G:C2	1:BA:159:G:C8	3.00	0.50
1:BA:158:G:N3	1:BA:159:G:C8	2.80	0.50
1:BA:433:G:C5	1:BA:434:U:C5	2.99	0.50
1:BA:439:U:C5	1:BA:440:C:C5	2.99	0.50
1:BA:5:U:OP1	1:BA:5:U:C6	2.64	0.50
1:BA:663:A:H2'	1:BA:664:G:O4'	2.12	0.50
1:BA:73:C:O2'	1:BA:74:A:P	2.70	0.50
2:BB:199:ILE:HD12	2:BB:199:ILE:N	2.26	0.50
2:BB:70:GLY:O	2:BB:92:ASN:HA	2.12	0.50
5:BE:113:VAL:CG2	5:BE:114:LEU:N	2.72	0.50
10:BJ:48:ARG:HG3	10:BJ:48:ARG:HH11	1.74	0.50
15:BO:72:LYS:CA	15:BO:72:LYS:HE2	2.38	0.50
20:BT:32:LYS:O	20:BT:34:VAL:N	2.44	0.50
21:BU:44:ARG:O	21:BU:45:LYS:HB2	2.10	0.50
25:CA:592:A:O2'	54:C3:2:LYS:HA	2.12	0.50
25:CA:1076:C:H2'	25:CA:1077:A:N9	2.26	0.50
25:CA:1414:C:C5	25:CA:1415:U:C4	2.99	0.50
25:CA:1589:U:C2'	25:CA:1589:U:O2	2.60	0.50
25:CA:2502:G:C5'	25:CA:2503:A:H5''	2.41	0.50
25:CA:2691:C:O3'	25:CA:2871:U:H4'	2.11	0.50
25:CA:71:A:H5''	25:CA:72:U:H2'	1.91	0.50
25:CA:851:C:O2'	25:CA:852:U:H5'	2.12	0.50
27:CC:199:HIS:O	27:CC:202:ARG:HD3	2.12	0.50
29:CE:109:LEU:O	29:CE:110:SER:C	2.47	0.50
29:CE:48:THR:C	29:CE:50:ALA:H	2.15	0.50
32:CH:128:HIS:O	32:CH:144:VAL:N	2.44	0.50
33:CI:3:LYS:CD	33:CI:4:VAL:H	2.24	0.50
38:CN:45:ARG:HG2	38:CN:95:THR:HG21	1.93	0.50
52:D1:42:VAL:HG12	52:D1:44:GLN:N	2.26	0.50
25:DA:1023:U:C2'	25:DA:1024:G:H5'	2.42	0.50
25:DA:1109:C:O2	25:DA:1109:C:H2'	2.11	0.50
25:DA:1429:G:C2'	25:DA:1430:G:O5'	2.60	0.50
25:DA:1467:U:N3	25:DA:1546:G:N2	2.59	0.50
25:DA:1562:U:O2	25:DA:1563:U:N1	2.44	0.50
25:DA:1902:C:H4'	27:DC:241:LYS:O	2.11	0.50
25:DA:2111:U:N3	25:DA:2147:A:H2	2.09	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2121:G:N2	25:DA:2178:C:C2	2.79	0.50
25:DA:2298:A:OP1	30:DF:70:ARG:HD2	2.11	0.50
25:DA:2371:G:C2	25:DA:2372:U:C6	3.00	0.50
25:DA:2695:U:O5'	25:DA:2695:U:H6	1.94	0.50
25:DA:2796:U:H2'	25:DA:2797:U:H2'	1.93	0.50
25:DA:359:G:H2'	25:DA:360:U:C5'	2.42	0.50
25:DA:447:A:C2	25:DA:454:A:C8	3.00	0.50
25:DA:61:C:H6	25:DA:61:C:O5'	1.93	0.50
25:DA:636:G:O2'	25:DA:638:G:H4'	2.11	0.50
56:DB:95:U:N3	56:DB:96:G:N7	2.60	0.50
25:DA:1997:C:OP2	28:DD:129:THR:HB	2.12	0.50
28:DD:172:VAL:HG21	28:DD:194:PRO:HD3	1.93	0.50
31:DG:120:ILE:HD12	31:DG:134:GLY:HA3	1.93	0.50
32:DH:84:ALA:HB3	32:DH:148:ALA:HB2	1.92	0.50
34:DJ:70:THR:HG22	34:DJ:90:GLU:OE1	2.12	0.50
37:DM:21:ALA:CB	37:DM:100:LYS:N	2.74	0.50
40:DP:51:ASN:H	40:DP:51:ASN:HD22	1.59	0.50
41:DQ:57:ARG:HH21	41:DQ:91:ARG:CZ	2.23	0.50
41:DQ:85:ALA:CB	41:DQ:87:VAL:HG23	2.42	0.50
43:DS:34:ASP:O	43:DS:37:THR:N	2.44	0.50
43:DS:28:LYS:HA	43:DS:70:LYS:HG3	1.91	0.50
46:DV:51:GLN:CB	46:DV:56:PHE:CD2	2.94	0.50
1:AA:1470:U:O2'	1:AA:1471:U:H5'	2.11	0.50
1:AA:257:G:N3	1:AA:258:G:C8	2.79	0.50
1:AA:439:U:C6	1:AA:440:C:H5	2.28	0.50
1:AA:540:G:C2'	1:AA:541:G:H5'	2.41	0.50
1:AA:622:A:C2'	1:AA:623:C:H5'	2.41	0.50
2:AB:30:ILE:CD1	2:AB:38:HIS:CG	2.95	0.50
3:AC:129:PHE:CE1	3:AC:130:ARG:HD2	2.47	0.50
8:AH:104:SER:HA	8:AH:109:VAL:HA	1.94	0.50
1:AA:1279:G:H22	10:AJ:45:ARG:HE	1.60	0.50
10:AJ:57:VAL:HG22	10:AJ:58:ASN:N	2.26	0.50
1:AA:667:G:H4'	15:AO:50:HIS:ND1	2.26	0.50
16:AP:73:ALA:O	16:AP:77:GLU:HB2	2.11	0.50
19:AS:19:GLU:C	19:AS:21:ALA:H	2.14	0.50
1:BA:1014:A:C4	19:BS:33:TRP:CZ3	2.99	0.50
1:BA:1058:G:C2'	1:BA:1059:C:O5'	2.60	0.50
1:BA:208:U:C5	1:BA:210:C:H6	2.29	0.50
1:BA:280:C:H4'	1:BA:281:G:OP2	2.11	0.50
1:BA:476:U:H2'	1:BA:477:C:C6	2.46	0.50
1:BA:595:A:N1	1:BA:641:U:C2	2.79	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:981:U:C6	1:BA:982:U:C6	3.00	0.50
2:BB:129:THR:O	2:BB:130:LYS:HE2	2.11	0.50
2:BB:83:ALA:O	2:BB:88:GLN:NE2	2.44	0.50
4:BD:172:VAL:O	4:BD:179:GLY:HA2	2.11	0.50
4:BD:69:ARG:O	4:BD:72:ARG:HB2	2.11	0.50
5:BE:37:VAL:HG12	5:BE:116:VAL:HG21	1.93	0.50
6:BF:25:TYR:O	6:BF:26:THR:C	2.49	0.50
6:BF:81:ASN:HB3	6:BF:84:VAL:CG1	2.41	0.50
10:BJ:15:HIS:CG	10:BJ:16:ARG:N	2.79	0.50
1:BA:675:A:H1'	11:BK:117:HIS:CG	2.47	0.50
11:BK:86:LYS:HA	11:BK:113:THR:HG22	1.94	0.50
12:BL:31:GLY:HA3	12:BL:54:VAL:CG1	2.41	0.50
14:BN:2:LYS:N	60:BN:205:HOH:O	2.44	0.50
15:BO:3:SER:CB	15:BO:6:ALA:HB3	2.38	0.50
15:BO:69:LEU:C	15:BO:69:LEU:CD2	2.80	0.50
15:BO:87:ARG:O	15:BO:87:ARG:CD	2.60	0.50
16:BP:80:LYS:HB2	16:BP:80:LYS:NZ	2.26	0.50
22:BV:1:G:C6	22:BV:73:A:C2	2.99	0.50
25:CA:1106:G:N2	25:CA:1107:G:H1'	2.26	0.50
25:CA:1470:A:H2'	25:CA:1471:G:O4'	2.12	0.50
25:CA:1535:A:C5'	25:CA:1536:C:H5	2.25	0.50
25:CA:1585:C:C2'	25:CA:1586:A:C5'	2.89	0.50
25:CA:1873:G:H2'	25:CA:1874:C:C6	2.47	0.50
25:CA:2714:G:C2'	25:CA:2715:C:H5'	2.42	0.50
25:CA:622:G:H2'	25:CA:623:C:H6	1.77	0.50
25:CA:74:A:H4'	25:CA:75:G:OP2	2.10	0.50
25:CA:763:G:C4	25:CA:765:C:C6	3.00	0.50
25:CA:784:G:H5'	60:CA:3316:HOH:O	2.10	0.50
25:CA:898:C:C4	25:CA:899:A:N7	2.79	0.50
25:CA:920:A:C2	25:CA:921:C:C2	2.99	0.50
25:CA:923:G:H4'	47:CW:25:GLU:HG3	1.93	0.50
26:CB:47:C:OP2	39:CO:3:LYS:CE	2.59	0.50
27:CC:128:THR:C	27:CC:129:LEU:CD2	2.79	0.50
27:CC:43:ASN:HB3	27:CC:49:THR:HG21	1.93	0.50
29:CE:176:ASP:OD1	29:CE:178:VAL:N	2.44	0.50
31:CG:154:GLU:HG2	31:CG:155:PRO:N	2.27	0.50
31:CG:148:ARG:NH2	31:CG:166:GLU:OE2	2.44	0.50
31:CG:8:VAL:CG1	31:CG:49:LEU:CB	2.83	0.50
35:CK:48:PRO:O	35:CK:49:ARG:HG3	2.11	0.50
25:CA:2392:A:C2	36:CL:55:MET:HE3	2.46	0.50
39:CO:12:THR:O	39:CO:13:ARG:C	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CP:17:PRO:HG3	40:CP:83:ILE:O	2.11	0.50
43:CS:66:ILE:CG2	43:CS:66:ILE:O	2.59	0.50
45:CU:101:THR:HG22	45:CU:102:ILE:N	2.26	0.50
47:CW:6:THR:O	47:CW:7:ARG:HB2	2.12	0.50
55:D4:18:LYS:HG3	55:D4:23:ILE:HD13	1.93	0.50
25:DA:1080:A:C2	25:DA:1081:U:C6	3.00	0.50
25:DA:1142:A:H4'	34:DJ:27:ARG:NH2	2.27	0.50
25:DA:1266:G:OP1	51:D0:15:ARG:NE	2.44	0.50
25:DA:1423:G:OP1	25:DA:1492:G:O2'	2.27	0.50
25:DA:1731:G:H2'	25:DA:1732:C:O5'	2.11	0.50
25:DA:1810:A:H2'	25:DA:1811:G:O4'	2.11	0.50
25:DA:1853:A:N3	25:DA:2233:U:O2'	2.43	0.50
25:DA:2131:U:H5'	25:DA:2132:U:C5'	2.40	0.50
25:DA:223:A:C5	25:DA:422:A:C8	2.98	0.50
25:DA:2469:A:H4'	37:DM:55:ARG:HD3	1.94	0.50
25:DA:2531:A:H3'	25:DA:2532:G:H8	1.76	0.50
25:DA:2729:G:H2'	25:DA:2730:C:H6	1.77	0.50
25:DA:2861:U:C2	25:DA:2862:G:C8	3.00	0.50
25:DA:2849:U:N3	25:DA:2867:G:O4'	2.44	0.50
25:DA:559:G:H2'	25:DA:560:C:O4'	2.12	0.50
25:DA:5:A:H2'	25:DA:6:A:C8	2.46	0.50
25:DA:88:G:C6	25:DA:89:A:N7	2.80	0.50
27:DC:250:GLN:HE21	27:DC:250:GLN:HA	1.77	0.50
28:DD:148:GLN:HB2	28:DD:152:PRO:CG	2.41	0.50
28:DD:57:ALA:O	28:DD:60:VAL:CG1	2.59	0.50
29:DE:12:LEU:HD23	29:DE:13:THR:N	2.27	0.50
33:DI:72:THR:HG23	33:DI:115:ASP:HB3	1.92	0.50
35:DK:86:LEU:HD23	35:DK:86:LEU:N	2.26	0.50
36:DL:96:LYS:HD3	36:DL:103:ILE:HA	1.93	0.50
37:DM:31:PHE:HD2	37:DM:132:THR:HG23	1.76	0.50
39:DO:72:ALA:HA	39:DO:109:ALA:CB	2.41	0.50
39:DO:28:VAL:O	39:DO:95:SER:HB3	2.11	0.50
56:DB:27:C:OP1	39:DO:34:HIS:NE2	2.45	0.50
25:DA:998:C:P	41:DQ:91:ARG:HH22	2.34	0.50
42:DR:29:THR:CG2	42:DR:29:THR:O	2.59	0.50
50:DZ:35:VAL:CG2	50:DZ:37:ARG:CZ	2.90	0.50
1:AA:1075:U:O2'	1:AA:1076:U:H5'	2.11	0.50
1:AA:1300:G:C6	1:AA:1334:G:C5	3.00	0.50
1:AA:1492:A:H3'	1:AA:1493:A:H8	1.75	0.50
1:AA:201:G:N1	1:AA:217:C:C2	2.80	0.50
1:AA:262:A:N6	1:AA:263:A:N6	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:390:U:H2'	1:AA:391:G:H8	1.75	0.50
1:AA:390:U:H2'	1:AA:391:G:O5'	2.11	0.50
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.11	0.50
5:AE:37:VAL:HG23	5:AE:47:PHE:HA	1.92	0.50
8:AH:110:MET:CE	8:AH:115:ALA:N	2.74	0.50
11:AK:87:GLY:O	11:AK:92:ARG:HD2	2.10	0.50
14:AN:43:ASN:CA	14:AN:45:VAL:HG22	2.41	0.50
19:AS:52:ASN:OD1	19:AS:55:GLN:O	2.30	0.50
21:AU:24:LYS:HD2	21:AU:25:ALA:H	1.75	0.50
24:AY:64:ARG:HA	24:AY:103:LEU:HB2	1.92	0.50
1:BA:1083:U:C5	1:BA:1084:G:C6	2.97	0.50
1:BA:1203:C:C5'	14:BN:67:THR:HB	2.41	0.50
1:BA:461:A:H8	1:BA:461:A:OP2	1.95	0.50
1:BA:815:A:H4'	1:BA:817:C:C4	2.46	0.50
1:BA:908:A:H2'	1:BA:909:A:H8	1.76	0.50
2:BB:103:TRP:HZ3	2:BB:107:ARG:CZ	2.23	0.50
4:BD:12:ARG:HB3	4:BD:37:PRO:HG3	1.91	0.50
6:BF:26:THR:O	6:BF:27:ALA:O	2.29	0.50
6:BF:81:ASN:HB3	6:BF:84:VAL:HG12	1.92	0.50
7:BG:105:GLU:O	7:BG:109:LYS:HG2	2.11	0.50
8:BH:33:VAL:O	8:BH:36:ALA:N	2.45	0.50
9:BI:37:TYR:CD2	9:BI:38:PHE:CE2	3.00	0.50
12:BL:42:LYS:HE3	12:BL:43:LYS:CE	2.42	0.50
13:BM:32:ILE:CD1	13:BM:58:GLU:HB3	2.42	0.50
14:BN:64:CYS:O	14:BN:66:GLN:N	2.44	0.50
15:BO:24:THR:O	15:BO:25:GLU:C	2.50	0.50
16:BP:38:PHE:C	16:BP:38:PHE:CD1	2.84	0.50
54:C3:54:LEU:O	54:C3:58:ILE:CD1	2.60	0.50
25:CA:1124:G:H1'	55:C4:38:GLY:OXT	2.11	0.50
25:CA:1368:G:O2'	25:CA:1369:G:H5'	2.12	0.50
25:CA:1547:C:C3'	25:CA:1547:C:C6	2.95	0.50
25:CA:1805:A:N3	27:CC:49:THR:HB	2.26	0.50
25:CA:2194:U:H2'	25:CA:2194:U:O2	2.12	0.50
25:CA:2216:G:H2'	25:CA:2217:G:C8	2.46	0.50
25:CA:2798:U:H6	25:CA:2798:U:H5'	1.77	0.50
25:CA:284:U:H2'	25:CA:285:G:H8	1.76	0.50
26:CB:103:U:O2'	26:CB:104:A:H5'	2.12	0.50
26:CB:20:G:C2'	26:CB:21:G:H5'	2.42	0.50
25:CA:2311:A:C8	30:CF:76:PHE:CG	2.99	0.50
31:CG:49:LEU:HD12	31:CG:71:LEU:HD23	1.94	0.50
33:CI:21:PRO:HB2	33:CI:22:PRO:CD	2.30	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:79:LEU:HA	33:CI:83:ALA:HB3	1.94	0.50
39:CO:110:ALA:HB1	39:CO:115:LEU:HD22	1.94	0.50
40:CP:80:VAL:HG11	40:CP:83:ILE:CD1	2.41	0.50
25:DA:1360:G:H3'	25:DA:1361:G:H8	1.77	0.50
25:DA:1401:G:C4	25:DA:1402:U:C6	3.00	0.50
25:DA:1537:G:N3	25:DA:1537:G:H3'	2.27	0.50
25:DA:2103:C:H2'	25:DA:2104:C:C6	2.45	0.50
25:DA:2207:C:H2'	25:DA:2208:C:C6	2.46	0.50
25:DA:1782:U:H2'	25:DA:2608:G:O2'	2.11	0.50
25:DA:2757:A:C2	25:DA:2758:A:C8	3.00	0.50
25:DA:2835:A:C2	25:DA:2879:A:N7	2.80	0.50
25:DA:290:U:O5'	25:DA:290:U:H6	1.95	0.50
25:DA:415:A:H2'	25:DA:416:U:H6	1.76	0.50
25:DA:590:A:H2'	25:DA:591:U:C6	2.46	0.50
25:DA:622:G:O2'	25:DA:623:C:H5'	2.11	0.50
25:DA:668:A:H2'	25:DA:670:A:H62	1.77	0.50
25:DA:678:C:H2'	25:DA:679:C:C6	2.46	0.50
27:DC:150:GLY:O	27:DC:151:GLY:O	2.29	0.50
27:DC:173:LEU:CD2	27:DC:183:VAL:HG21	2.42	0.50
30:DF:135:ILE:C	30:DF:137:PHE:N	2.64	0.50
30:DF:28:PRO:O	30:DF:29:ARG:HB3	2.10	0.50
30:DF:45:ASP:HB3	30:DF:48:LEU:CB	2.41	0.50
31:DG:108:PHE:CE2	31:DG:151:ARG:CZ	2.94	0.50
31:DG:67:ALA:O	31:DG:68:ARG:C	2.50	0.50
32:DH:14:SER:C	32:DH:15:LEU:CD2	2.79	0.50
32:DH:31:VAL:HG12	32:DH:32:PRO:HD3	1.92	0.50
32:DH:84:ALA:HB3	32:DH:148:ALA:CB	2.42	0.50
34:DJ:15:TRP:CZ2	34:DJ:135:GLN:HG2	2.46	0.50
34:DJ:31:GLU:CG	34:DJ:142:ILE:HD11	2.36	0.50
35:DK:51:LYS:O	35:DK:52:VAL:HG13	2.12	0.50
42:DR:6:GLN:HB3	42:DR:37:GLU:HB3	1.93	0.50
43:DS:84:ARG:HB2	43:DS:96:ILE:HG13	1.90	0.50
1:AA:1462:C:H2'	1:AA:1463:U:H6	1.75	0.50
1:AA:234:C:H2'	1:AA:235:C:C6	2.47	0.50
1:AA:45:G:N2	1:AA:398:U:C4	2.80	0.50
1:AA:412:A:H1'	1:AA:413:G:C5'	2.41	0.50
1:AA:609:A:H2'	1:AA:610:U:C5'	2.40	0.50
1:AA:955:U:C5	1:AA:956:U:C4	3.00	0.50
2:AB:116:LEU:HG	2:AB:140:LEU:HD11	1.93	0.50
3:AC:93:ILE:HG22	3:AC:94:ALA:N	2.26	0.50
4:AD:53:GLN:NE2	4:AD:202:LEU:N	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:101:ARG:O	7:AG:104:VAL:N	2.45	0.50
7:AG:66:GLU:HG3	7:AG:69:ARG:NH2	2.25	0.50
10:AJ:28:THR:HG22	10:AJ:86:ALA:HB1	1.94	0.50
10:AJ:57:VAL:O	10:AJ:58:ASN:CB	2.56	0.50
16:AP:51:ARG:CB	16:AP:51:ARG:HH11	2.24	0.50
17:AQ:37:ILE:H	17:AQ:37:ILE:HD12	1.77	0.50
18:AR:32:ILE:O	18:AR:32:ILE:CG1	2.59	0.50
11:AK:109:ILE:HG22	21:AU:16:ARG:NE	2.27	0.50
1:BA:1062:U:O4	3:BC:2:GLN:HG2	2.12	0.50
1:BA:141:G:C2	1:BA:142:G:H1'	2.47	0.50
1:BA:1450:U:O2'	1:BA:1451:U:H2'	2.12	0.50
1:BA:1505:G:H2'	23:BX:15:A:OP2	2.12	0.50
1:BA:202:G:O2'	1:BA:468:A:C8	2.59	0.50
1:BA:519:C:O2	1:BA:519:C:H2'	2.12	0.50
1:BA:731:G:OP1	1:BA:766:A:H1'	2.12	0.50
1:BA:951:G:OP2	13:BM:100:ARG:NH2	2.45	0.50
2:BB:139:GLU:C	2:BB:143:LEU:CD2	2.80	0.50
4:BD:168:THR:HB	4:BD:183:ARG:NH2	2.27	0.50
4:BD:96:ARG:HB3	4:BD:98:ASP:OD1	2.12	0.50
5:BE:100:GLU:O	5:BE:100:GLU:CD	2.49	0.50
6:BF:97:THR:O	6:BF:98:GLU:CB	2.59	0.50
9:BI:35:GLU:H	9:BI:35:GLU:CD	2.13	0.50
9:BI:33:SER:HB3	9:BI:36:GLN:CD	2.31	0.50
1:BA:972:C:H4'	10:BJ:59:LYS:CG	2.42	0.50
11:BK:84:MET:HA	11:BK:110:THR:O	2.11	0.50
13:BM:21:ILE:HG22	13:BM:22:TYR:N	2.26	0.50
15:BO:63:ARG:NH1	15:BO:67:ASP:OD2	2.45	0.50
20:BT:17:ARG:O	20:BT:21:ALA:HB2	2.11	0.50
21:BU:17:ARG:O	21:BU:20:ARG:N	2.45	0.50
52:C1:34:GLU:CG	52:C1:49:LYS:HG3	2.42	0.50
25:CA:1535:A:H5''	25:CA:1536:C:H5	1.76	0.50
25:CA:1686:C:C2'	25:CA:1687:G:H5'	2.42	0.50
25:CA:1856:U:O2'	25:CA:1857:G:H5'	2.11	0.50
25:CA:2024:G:P	60:CA:3476:HOH:O	2.69	0.50
25:CA:2155:U:H2'	25:CA:2156:G:C4'	2.41	0.50
25:CA:2593:U:H2'	25:CA:2594:C:H6	1.76	0.50
25:CA:434:U:H4'	25:CA:435:C:OP1	2.11	0.50
29:CE:189:THR:HG22	29:CE:191:ASP:N	2.27	0.50
29:CE:190:ALA:C	29:CE:192:ALA:N	2.63	0.50
30:CF:105:ILE:CG1	30:CF:106:ALA:N	2.74	0.50
33:CI:7:TYR:HA	33:CI:58:ILE:HG12	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:56:VAL:HG22	33:CI:68:PHE:HD2	1.77	0.50
35:CK:66:LYS:HD2	35:CK:79:PHE:O	2.11	0.50
50:CZ:3:THR:HG22	50:CZ:4:ILE:N	2.26	0.50
25:DA:1060:U:O4'	25:DA:1062:G:C5'	2.60	0.50
25:DA:1233:C:C4	25:DA:1234:U:C5	2.99	0.50
25:DA:31:C:O3'	25:DA:1238:G:H5''	2.12	0.50
25:DA:1344:U:O2'	25:DA:1345:C:P	2.69	0.50
25:DA:1383:A:N1	25:DA:1384:A:C2	2.80	0.50
25:DA:1678:A:C2'	25:DA:1679:A:H5'	2.42	0.50
25:DA:1885:A:C4	25:DA:1886:U:C6	3.00	0.50
25:DA:2107:G:C2	25:DA:2108:A:H1'	2.47	0.50
25:DA:2209:G:C4	25:DA:2210:U:C5	2.99	0.50
25:DA:2311:A:H2	30:DF:84:ILE:HD11	1.75	0.50
25:DA:2326:C:O2'	25:DA:2327:A:O5'	2.26	0.50
25:DA:2348:U:O4	25:DA:2382:G:C6	2.64	0.50
25:DA:2465:C:H2'	25:DA:2466:C:H6	1.76	0.50
25:DA:2674:G:H2'	25:DA:2675:A:O4'	2.12	0.50
25:DA:2839:G:C5	25:DA:2840:C:C5	2.99	0.50
25:DA:464:U:H5'	53:D2:5:PHE:CE2	2.47	0.50
25:DA:60:G:C2	25:DA:74:A:C6	2.99	0.50
25:DA:802:A:OP1	60:DA:3330:HOH:O	2.19	0.50
56:DB:49:C:C2'	56:DB:50:A:O5'	2.60	0.50
28:DD:4:LEU:HG	28:DD:32:ASN:OD1	2.11	0.50
29:DE:115:GLN:O	29:DE:116:ASP:HB2	2.12	0.50
30:DF:35:LEU:HD21	30:DF:90:LEU:CD1	2.42	0.50
35:DK:71:ARG:CZ	35:DK:77:ILE:HD11	2.41	0.50
46:DV:75:GLN:HB2	46:DV:92:VAL:CG2	2.42	0.50
49:DY:16:THR:HG22	49:DY:17:GLU:H	1.75	0.50
1:AA:1501:C:C2	1:AA:1504:G:C6	3.00	0.50
1:AA:218:U:O2'	1:AA:219:U:H5'	2.11	0.50
1:AA:234:C:H2'	1:AA:235:C:H6	1.77	0.50
1:AA:356:A:H2	1:AA:368:U:O2	1.94	0.50
1:AA:373:A:C2'	1:AA:374:A:O5'	2.60	0.50
1:AA:455:G:C2	1:AA:478:A:C2	3.00	0.50
1:AA:438:U:C2	1:AA:494:G:C6	2.99	0.50
1:AA:542:G:H2'	1:AA:543:U:H6	1.75	0.50
1:AA:796:C:O2'	1:AA:797:C:H5'	2.11	0.50
1:AA:852:G:C5	1:AA:853:C:C5	2.99	0.50
1:AA:974:A:H4'	1:AA:975:A:O5'	2.10	0.50
3:AC:54:ILE:HD12	3:AC:54:ILE:C	2.32	0.50
5:AE:114:LEU:HG	5:AE:122:VAL:HG11	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:643:C:C5'	8:AH:31:LEU:HD23	2.42	0.50
8:AH:59:GLU:OE2	8:AH:59:GLU:C	2.49	0.50
14:AN:49:GLN:OE1	14:AN:49:GLN:CA	2.58	0.50
1:AA:625:U:H4'	16:AP:16:PHE:CE2	2.46	0.50
17:AQ:15:LYS:N	17:AQ:16:MET:HE1	2.27	0.50
1:BA:1068:G:C2	1:BA:1069:C:C6	2.99	0.50
1:BA:1291:U:H2'	1:BA:1292:G:C8	2.47	0.50
1:BA:1239:A:C2	1:BA:1297:G:C2	2.99	0.50
1:BA:160:A:H2'	1:BA:161:A:O4'	2.11	0.50
1:BA:349:A:C2'	1:BA:350:G:H5'	2.42	0.50
1:BA:383:A:C2'	1:BA:384:G:H5'	2.41	0.50
1:BA:378:G:C2	1:BA:386:C:C2	3.00	0.50
1:BA:722:G:C8	1:BA:724:G:H1'	2.47	0.50
1:BA:833:G:C5	1:BA:834:U:C5	2.99	0.50
1:BA:841:C:N1	1:BA:843:U:H5'	2.27	0.50
1:BA:893:C:H2'	1:BA:894:G:H8	1.76	0.50
2:BB:162:VAL:O	2:BB:184:ALA:CA	2.57	0.50
2:BB:71:THR:HA	2:BB:92:ASN:O	2.11	0.50
3:BC:14:VAL:HG11	3:BC:206:ILE:OXT	2.11	0.50
4:BD:202:LEU:HD12	4:BD:202:LEU:O	2.12	0.50
5:BE:106:ALA:CA	5:BE:124:ALA:HB3	2.41	0.50
10:BJ:86:ALA:O	10:BJ:90:LEU:HD12	2.11	0.50
17:BQ:46:HIS:HA	17:BQ:70:LYS:CE	2.42	0.50
19:BS:57:VAL:HG11	19:BS:74:ALA:CA	2.42	0.50
22:BV:38:A:C2'	22:BV:39:U:O5'	2.59	0.50
22:BV:8:U:H5''	22:BV:49:C:OP2	2.11	0.50
25:CA:1060:U:O4'	25:CA:1062:G:C4'	2.60	0.50
25:CA:1414:C:N3	25:CA:1415:U:H5	2.09	0.50
25:CA:1415:U:O2	25:CA:1415:U:C2'	2.59	0.50
25:CA:1478:G:H2'	25:CA:1479:G:C8	2.47	0.50
25:CA:2095:A:N1	25:CA:2194:U:O4	2.45	0.50
25:CA:229:C:C2'	25:CA:230:G:O5'	2.60	0.50
28:CD:12:THR:HG21	40:CP:8:GLU:HG2	1.92	0.50
29:CE:131:THR:HG22	29:CE:160:ALA:C	2.30	0.50
30:CF:90:LEU:C	30:CF:95:MET:HB2	2.32	0.50
31:CG:108:PHE:CE2	31:CG:151:ARG:CZ	2.94	0.50
33:CI:85:ILE:CG1	33:CI:88:GLY:HA2	2.42	0.50
29:CE:181:ILE:HG23	36:CL:2:ARG:HD3	1.94	0.50
39:CO:56:LYS:O	39:CO:57:ALA:C	2.51	0.50
42:CR:39:LEU:O	42:CR:49:ILE:HG23	2.11	0.50
42:CR:74:ILE:N	42:CR:74:ILE:CD1	2.74	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CR:21:ARG:CZ	42:CR:93:PHE:CE1	2.94	0.50
44:CT:49:LYS:HE3	44:CT:49:LYS:CA	2.42	0.50
49:CY:22:LEU:O	49:CY:23:ARG:C	2.48	0.50
25:DA:1105:U:O2'	25:DA:1106:G:O5'	2.30	0.50
25:DA:133:U:H3'	25:DA:133:U:H6	1.76	0.50
25:DA:1406:U:H2'	25:DA:1407:G:C8	2.46	0.50
25:DA:1737:G:C6	25:DA:1738:G:N1	2.80	0.50
25:DA:2555:U:C5	25:DA:2556:C:C2	3.00	0.50
25:DA:2698:U:H2'	25:DA:2699:C:C6	2.47	0.50
25:DA:453:A:H5''	60:DA:3241:HOH:O	2.12	0.50
25:DA:471:A:H2'	25:DA:472:A:O4'	2.12	0.50
25:DA:569:U:C4	25:DA:570:G:C6	3.00	0.50
25:DA:993:G:O2'	25:DA:994:C:H5'	2.11	0.50
27:DC:124:LYS:CB	27:DC:125:PRO:HD2	2.42	0.50
27:DC:1:ALA:HA	27:DC:198:GLU:OE1	2.12	0.50
27:DC:237:ARG:O	27:DC:238:ASN:O	2.30	0.50
25:DA:2313:C:O4'	30:DF:36:ASN:HB2	2.12	0.50
31:DG:106:LEU:CD1	31:DG:150:TYR:HB3	2.41	0.50
31:DG:79:THR:HG22	31:DG:80:GLU:N	2.27	0.50
32:DH:100:ALA:O	32:DH:104:THR:HG23	2.11	0.50
38:DN:106:ASP:C	38:DN:106:ASP:OD1	2.50	0.50
50:DZ:30:ARG:HG2	50:DZ:33:HIS:HB2	1.92	0.50
1:AA:100:G:C5	1:AA:101:A:N7	2.80	0.50
1:AA:369:G:C6	1:AA:370:C:N4	2.80	0.50
1:AA:605:U:C2'	1:AA:606:G:H5'	2.42	0.50
1:AA:646:G:N1	1:AA:647:C:C4	2.80	0.50
1:AA:694:A:C2'	1:AA:695:A:O5'	2.60	0.50
1:AA:687:A:C2	1:AA:704:A:C5	2.99	0.50
1:AA:987:G:C2	1:AA:1219:A:C2	2.99	0.50
2:AB:193:ASP:C	2:AB:195:VAL:H	2.14	0.50
3:AC:12:GLY:C	3:AC:13:ILE:HG23	2.33	0.50
3:AC:166:TRP:N	3:AC:166:TRP:CD2	2.74	0.50
5:AE:14:LEU:O	5:AE:14:LEU:CD1	2.60	0.50
6:AF:38:ARG:CG	6:AF:39:LEU:N	2.75	0.50
7:AG:130:LYS:N	7:AG:134:VAL:HG11	2.27	0.50
8:AH:52:GLY:O	8:AH:53:ASP:HB3	2.11	0.50
10:AJ:11:LYS:HA	10:AJ:70:HIS:O	2.11	0.50
12:AL:65:TYR:O	12:AL:96:THR:N	2.44	0.50
13:AM:44:ILE:N	13:AM:44:ILE:HD12	2.27	0.50
13:AM:89:ARG:NH2	13:AM:94:LEU:HD12	2.26	0.50
15:AO:42:PHE:O	15:AO:46:LYS:HG2	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:84:CYS:HA	19:AS:72:GLU:O	2.12	0.50
1:BA:1072:G:C8	1:BA:1073:U:C5	3.00	0.50
1:BA:1078:U:C2	5:BE:89:THR:HG21	2.47	0.50
1:BA:1179:A:C2'	1:BA:1180:A:H5'	2.41	0.50
1:BA:1240:U:C5	7:BG:115:MET:HG2	2.47	0.50
1:BA:1287:A:C6	1:BA:1288:A:C6	2.99	0.50
1:BA:1292:G:C6	1:BA:1293:C:C4	3.00	0.50
1:BA:384:G:O2'	1:BA:385:C:C5'	2.60	0.50
1:BA:448:A:H2'	1:BA:448:A:N3	2.26	0.50
1:BA:751:U:C2'	1:BA:752:G:H5'	2.41	0.50
4:BD:160:LEU:O	4:BD:162:GLU:N	2.45	0.50
5:BE:152:VAL:O	5:BE:154:ALA:N	2.45	0.50
5:BE:79:THR:HG23	5:BE:80:LEU:O	2.11	0.50
9:BI:118:ARG:HH22	9:BI:122:ARG:NH2	2.10	0.50
10:BJ:87:LEU:C	10:BJ:87:LEU:CD2	2.80	0.50
11:BK:19:VAL:HG22	11:BK:82:GLU:HG2	1.93	0.50
13:BM:30:LYS:NZ	13:BM:40:GLU:HB3	2.27	0.50
15:BO:66:LEU:HD12	15:BO:66:LEU:H	1.76	0.50
21:BU:45:LYS:O	21:BU:49:ALA:HB2	2.11	0.50
25:CA:2178:C:H6	25:CA:2178:C:H3'	1.77	0.50
25:CA:2283:C:H2'	25:CA:2284:A:O5'	2.12	0.50
25:CA:247:G:N7	25:CA:249:C:C2	2.79	0.50
25:CA:1128:G:O6	25:CA:2491:U:H5	1.94	0.50
25:CA:2619:C:H5'	28:CD:155:VAL:O	2.12	0.50
25:CA:643:A:H1'	52:C1:43:ARG:NH2	2.27	0.50
27:CC:161:VAL:HG11	27:CC:173:LEU:HB3	1.94	0.50
28:CD:3:GLY:HA3	28:CD:203:VAL:O	2.12	0.50
29:CE:146:VAL:O	29:CE:146:VAL:HG23	2.12	0.50
29:CE:7:ASP:C	29:CE:9:GLN:N	2.65	0.50
25:CA:2308:G:C5	30:CF:76:PHE:HZ	2.29	0.50
30:CF:80:GLN:CD	30:CF:81:GLY:N	2.65	0.50
33:CI:121:ILE:HG12	33:CI:124:MET:SD	2.51	0.50
33:CI:33:ASN:HB3	33:CI:36:GLU:CG	2.42	0.50
34:CJ:140:LEU:HD11	34:CJ:142:ILE:HD13	1.93	0.50
36:CL:67:THR:O	36:CL:68:SER:O	2.29	0.50
36:CL:77:ILE:HG23	36:CL:100:ILE:HD11	1.94	0.50
37:CM:24:THR:O	37:CM:24:THR:CG2	2.60	0.50
37:CM:28:PHE:HB2	37:CM:104:GLU:OE2	2.12	0.50
38:CN:1:MET:O	38:CN:2:ARG:CB	2.59	0.50
46:CV:25:LYS:HE2	46:CV:43:ASP:CA	2.42	0.50
48:CX:37:PHE:CE1	48:CX:58:ILE:HG21	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:D4:7:VAL:O	55:D4:8:LYS:CG	2.60	0.50
25:DA:1355:G:N3	25:DA:1356:G:C8	2.80	0.50
25:DA:1358:G:O6	25:DA:1371:G:C8	2.65	0.50
25:DA:1485:U:O2'	25:DA:1486:U:H5'	2.12	0.50
25:DA:1300:G:C2	25:DA:1626:A:C6	2.99	0.50
25:DA:1870:C:H5''	25:DA:1871:A:C5	2.47	0.50
25:DA:2357:G:H5'	25:DA:2358:A:OP2	2.12	0.50
25:DA:2532:G:C6	25:DA:2533:U:C4	2.99	0.50
25:DA:2746:U:C4'	31:DG:138:GLN:HA	2.40	0.50
25:DA:2785:C:H2'	25:DA:2786:U:C6	2.46	0.50
25:DA:753:A:H2'	25:DA:754:U:H6	1.77	0.50
25:DA:871:U:H5''	37:DM:68:PHE:CE2	2.47	0.50
27:DC:117:SER:HB3	27:DC:128:THR:HB	1.94	0.50
31:DG:146:ASP:O	31:DG:149:ALA:HB3	2.12	0.50
32:DH:78:VAL:HG11	32:DH:102:ALA:O	2.12	0.50
34:DJ:84:ILE:HG23	34:DJ:84:ILE:O	2.11	0.50
34:DJ:93:ILE:HA	34:DJ:97:PRO:HB3	1.94	0.50
35:DK:120:PRO:O	35:DK:121:GLU:CB	2.58	0.50
25:DA:2561:U:O3'	35:DK:40:LYS:HD3	2.12	0.50
37:DM:42:THR:HA	37:DM:93:VAL:HG12	1.94	0.50
40:DP:88:ARG:HD2	40:DP:112:ARG:NH2	2.26	0.50
41:DQ:23:TYR:O	41:DQ:28:SER:HB3	2.12	0.50
44:DT:69:ARG:HG2	44:DT:70:HIS:N	2.27	0.50
44:DT:29:THR:HG23	44:DT:86:THR:HA	1.94	0.50
46:DV:29:ILE:O	46:DV:91:PHE:HB2	2.12	0.50
49:DY:1:MET:O	49:DY:2:LYS:C	2.50	0.50
1:AA:1114:C:C2'	1:AA:1114:C:O2	2.58	0.50
1:AA:1294:G:C5	1:AA:1295:U:C5	3.00	0.50
1:AA:1296:C:H4'	1:AA:1302:C:N4	2.27	0.50
1:AA:1304:G:C5	1:AA:1305:G:C2	2.99	0.50
1:AA:1358:U:OP1	14:AN:75:ARG:HG3	2.12	0.50
1:AA:198:G:C2	1:AA:199:A:C8	2.99	0.50
1:AA:725:G:C2'	1:AA:726:C:H5'	2.42	0.50
1:AA:737:C:H2'	1:AA:738:C:C6	2.44	0.50
1:AA:774:G:N2	1:AA:806:C:C6	2.80	0.50
1:AA:947:G:H2'	1:AA:948:C:O4'	2.12	0.50
2:AB:67:LEU:CD2	2:AB:69:VAL:HG23	2.41	0.50
4:AD:36:ALA:CA	4:AD:41:GLY:HA3	2.37	0.50
5:AE:95:MET:HB3	5:AE:124:ALA:HB2	1.93	0.50
8:AH:46:GLU:HB2	8:AH:63:LYS:HG2	1.93	0.50
8:AH:48:PHE:O	8:AH:49:LYS:HG3	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:56:MET:HA	9:AI:59:LYS:HB2	1.92	0.50
16:AP:10:GLY:O	16:AP:11:ALA:HB2	2.12	0.50
17:AQ:16:MET:SD	17:AQ:16:MET:N	2.85	0.50
22:AV:48:C:O2	22:AV:59:U:H1'	2.12	0.50
1:BA:1014:A:C4	19:BS:33:TRP:CE3	3.00	0.50
1:BA:1072:G:N7	1:BA:1073:U:C5	2.80	0.50
1:BA:1106:G:C4	1:BA:1107:C:C5	3.00	0.50
1:BA:1212:U:H5'	1:BA:1213:A:C5	2.47	0.50
1:BA:1272:G:C2	1:BA:1273:C:N1	2.80	0.50
1:BA:1441:A:N7	1:BA:1442:G:C8	2.80	0.50
1:BA:1538:C:C6	1:BA:1538:C:OP2	2.65	0.50
1:BA:215:C:C2'	1:BA:216:U:H5'	2.42	0.50
1:BA:853:C:C2'	1:BA:854:U:H5'	2.41	0.50
1:BA:88:U:C4	1:BA:89:U:C5	2.99	0.50
1:BA:930:C:O2'	1:BA:931:C:H5'	2.12	0.50
2:BB:112:ARG:O	2:BB:113:LEU:C	2.51	0.50
2:BB:116:LEU:HB3	2:BB:140:LEU:CD1	2.39	0.50
2:BB:139:GLU:HB3	2:BB:143:LEU:HD21	1.94	0.50
3:BC:35:ASP:O	3:BC:38:VAL:CG2	2.59	0.50
4:BD:13:ARG:HG3	4:BD:55:ARG:HE	1.77	0.50
4:BD:97:LEU:HD12	4:BD:97:LEU:O	2.12	0.50
5:BE:9:GLU:HG3	5:BE:10:LEU:N	2.27	0.50
5:BE:76:ASN:OD1	5:BE:81:GLN:HG2	2.11	0.50
7:BG:88:VAL:HG22	7:BG:89:GLU:N	2.27	0.50
9:BI:5:TYR:HB2	9:BI:20:ILE:CB	2.40	0.50
10:BJ:35:GLN:HG2	10:BJ:77:VAL:HG23	1.93	0.50
16:BP:19:VAL:HG13	16:BP:37:GLY:C	2.32	0.50
16:BP:39:PHE:C	16:BP:39:PHE:CD1	2.84	0.50
25:CA:1172:C:N3	25:CA:1173:U:H1'	2.26	0.50
25:CA:1922:G:C6	25:CA:1923:U:C4	3.00	0.50
25:CA:2163:A:H3'	25:CA:2164:C:C4'	2.42	0.50
25:CA:2307:G:H22	25:CA:2311:A:C2'	2.25	0.50
25:CA:2318:G:C2'	25:CA:2319:G:H5'	2.41	0.50
25:CA:2639:A:C2	25:CA:2778:A:C8	3.00	0.50
27:CC:200:MET:HG3	27:CC:201:LEU:HD12	1.94	0.50
27:CC:246:PRO:HG2	27:CC:247:TRP:CZ3	2.47	0.50
27:CC:93:VAL:HG11	27:CC:103:ILE:HD11	1.92	0.50
29:CE:7:ASP:O	29:CE:9:GLN:N	2.44	0.50
31:CG:93:TYR:CD2	31:CG:106:LEU:HA	2.47	0.50
25:CA:587:C:C2'	36:CL:19:LEU:HD11	2.42	0.50
55:D4:33:HIS:O	55:D4:35:GLN:HG2	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1045:C:H4'	25:DA:1047:G:C8	2.47	0.50
25:DA:1366:A:H2'	25:DA:1367:A:O4'	2.12	0.50
25:DA:1459:G:C2'	25:DA:1460:U:O5'	2.60	0.50
25:DA:1637:A:H5'	25:DA:1760:C:O2'	2.12	0.50
25:DA:2223:G:C2'	25:DA:2224:G:C5'	2.86	0.50
25:DA:2291:U:C2	25:DA:2292:U:C5	3.00	0.50
25:DA:2427:C:H5''	25:DA:2428:G:OP1	2.11	0.50
25:DA:2765:A:N3	25:DA:2765:A:H3'	2.26	0.50
25:DA:2793:C:H2'	25:DA:2794:C:C5	2.47	0.50
25:DA:2838:G:C6	25:DA:2839:G:C5	3.00	0.50
25:DA:2850:A:H2'	25:DA:2851:A:O4'	2.12	0.50
25:DA:308:G:O2'	45:DU:16:LYS:HE2	2.12	0.50
25:DA:654:A:N3	25:DA:654:A:H3'	2.27	0.50
27:DC:129:LEU:O	27:DC:134:ILE:HD11	2.12	0.50
27:DC:56:GLY:O	27:DC:57:HIS:O	2.30	0.50
27:DC:73:ILE:N	27:DC:73:ILE:CD1	2.72	0.50
30:DF:102:LEU:HG	30:DF:107:VAL:CG2	2.42	0.50
30:DF:102:LEU:HG	30:DF:107:VAL:HG21	1.94	0.50
30:DF:57:ALA:CB	30:DF:62:GLN:O	2.60	0.50
31:DG:124:CYS:HB3	31:DG:129:GLU:O	2.11	0.50
33:DI:10:LEU:O	33:DI:10:LEU:CD1	2.59	0.50
33:DI:56:VAL:CB	33:DI:70:THR:HB	2.41	0.50
33:DI:9:LYS:HB2	33:DI:55:PRO:HB2	1.89	0.50
37:DM:57:VAL:CG2	37:DM:58:LYS:O	2.60	0.50
39:DO:117:PHE:CD1	39:DO:117:PHE:C	2.85	0.50
43:DS:63:GLY:O	43:DS:64:ALA:CB	2.59	0.50
45:DU:33:VAL:HG13	45:DU:66:VAL:CG2	2.42	0.50
46:DV:51:GLN:CD	46:DV:51:GLN:C	2.70	0.50
49:DY:18:LEU:HG	49:DY:22:LEU:HB2	1.93	0.50
25:DA:988:A:C5'	50:DZ:11:SER:HB2	2.42	0.50
1:AA:101:A:C6	1:AA:102:G:N7	2.80	0.49
1:AA:1399:C:O2	1:AA:1401:G:C5	2.65	0.49
1:AA:1497:G:O2'	1:AA:1498:U:H5'	2.12	0.49
1:AA:123:U:H4'	1:AA:290:C:O2	2.12	0.49
1:AA:443:C:H2'	1:AA:444:G:O4'	2.11	0.49
1:AA:541:G:N3	1:AA:542:G:C8	2.80	0.49
1:AA:656:G:C5	1:AA:657:U:C5	2.99	0.49
1:AA:675:A:O4'	11:AK:117:HIS:CD2	2.65	0.49
2:AB:127:LYS:CG	2:AB:128:LEU:N	2.75	0.49
3:AC:109:GLU:CD	3:AC:109:GLU:H	2.15	0.49
4:AD:173:ASP:OD1	4:AD:176:LYS:CE	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:77:GLU:OE1	4:AD:77:GLU:CA	2.59	0.49
7:AG:84:TYR:CE1	7:AG:150:PHE:HE2	2.30	0.49
9:AI:7:GLY:HA3	9:AI:84:ARG:HB3	1.94	0.49
18:AR:26:ALA:O	18:AR:29:LYS:HE3	2.12	0.49
19:AS:80:ARG:NE	19:AS:80:ARG:HA	2.27	0.49
21:AU:11:PHE:H	21:AU:11:PHE:HD2	1.59	0.49
21:AU:14:ALA:O	21:AU:15:LEU:HD12	2.12	0.49
21:AU:34:ARG:O	21:AU:35:GLU:C	2.51	0.49
21:AU:44:ARG:HD2	21:AU:44:ARG:N	2.27	0.49
22:AV:48:C:H2'	22:AV:59:U:O4'	2.12	0.49
24:AY:41:ILE:HG22	24:AY:52:LEU:CB	2.42	0.49
1:BA:1073:U:N3	1:BA:1074:G:C8	2.79	0.49
1:BA:1187:G:H2'	1:BA:1188:A:C8	2.47	0.49
1:BA:1317:C:N3	14:BN:53:ARG:HD3	2.27	0.49
1:BA:132:C:H4'	20:BT:68:LYS:HE2	1.94	0.49
1:BA:1388:C:H2'	1:BA:1389:C:H6	1.76	0.49
1:BA:200:G:C2'	1:BA:201:G:H5'	2.42	0.49
4:BD:107:GLY:HA3	4:BD:113:ALA:HB2	1.94	0.49
9:BI:27:ILE:HG12	9:BI:62:LEU:HD11	1.94	0.49
16:BP:73:ALA:O	16:BP:77:GLU:HB2	2.12	0.49
22:BV:1:G:H2'	22:BV:2:C:H6	1.76	0.49
25:CA:1053:C:C4	25:CA:1054:A:C8	3.00	0.49
25:CA:1178:C:C5'	25:CA:1179:G:OP1	2.60	0.49
25:CA:1:G:C2	25:CA:2:G:C8	3.00	0.49
25:CA:2119:A:H61	25:CA:2167:U:H1'	1.77	0.49
25:CA:1420:A:C6	25:CA:2211:A:N1	2.79	0.49
25:CA:2209:G:C2	25:CA:2216:G:C2	3.00	0.49
25:CA:2272:U:H5''	25:CA:2273:A:OP1	2.12	0.49
25:CA:383:C:N3	25:CA:391:A:N6	2.60	0.49
26:CB:59:A:H2'	26:CB:60:C:O5'	2.12	0.49
30:CF:173:ASP:O	30:CF:174:PHE:C	2.51	0.49
30:CF:55:ASP:N	30:CF:55:ASP:OD2	2.44	0.49
31:CG:126:THR:HG22	31:CG:128:THR:H	1.76	0.49
39:CO:18:LEU:HD11	39:CO:91:SER:HB3	1.94	0.49
43:CS:59:GLU:HG3	43:CS:66:ILE:HD11	1.94	0.49
25:CA:989:G:C8	50:CZ:13:ILE:HD11	2.47	0.49
50:CZ:15:ARG:N	50:CZ:15:ARG:HD3	2.26	0.49
25:DA:1071:G:H2'	25:DA:1072:C:H5''	1.92	0.49
25:DA:1714:U:H2'	25:DA:1714:U:O2	2.11	0.49
25:DA:2190:G:O2'	25:DA:2191:A:H5'	2.11	0.49
25:DA:2328:A:H2'	25:DA:2329:U:H6	1.74	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2580:U:C5	25:DA:2581:G:C6	3.00	0.49
30:DF:129:MET:HE2	30:DF:130:GLY:O	2.12	0.49
30:DF:34:THR:CG2	30:DF:89:THR:HA	2.42	0.49
32:DH:135:HIS:CD2	32:DH:137:GLU:HG2	2.47	0.49
32:DH:34:GLY:O	32:DH:35:LYS:HB2	2.11	0.49
32:DH:66:ASN:HA	32:DH:138:VAL:HG11	1.94	0.49
32:DH:7:ASP:HB2	32:DH:35:LYS:CE	2.41	0.49
33:DI:53:PRO:O	33:DI:73:PRO:CB	2.60	0.49
34:DJ:130:HIS:O	34:DJ:130:HIS:CG	2.65	0.49
36:DL:2:ARG:CA	36:DL:5:THR:HG23	2.42	0.49
36:DL:77:ILE:HD12	36:DL:77:ILE:N	2.26	0.49
25:DA:998:C:P	41:DQ:91:ARG:NH2	2.84	0.49
42:DR:68:ARG:HA	42:DR:91:GLN:O	2.12	0.49
49:DY:42:LEU:O	49:DY:46:VAL:HG23	2.12	0.49
49:DY:9:LYS:N	49:DY:12:GLU:HB2	2.27	0.49
49:DY:9:LYS:N	49:DY:12:GLU:HG3	2.25	0.49
1:AA:1167:A:H5''	1:AA:1168:U:OP2	2.12	0.49
1:AA:1171:A:C2	1:AA:1172:C:C2	3.00	0.49
1:AA:1413:A:C4	1:AA:1414:U:C6	3.00	0.49
1:AA:318:G:C4	1:AA:336:A:C2	3.00	0.49
1:AA:390:U:H2'	1:AA:391:G:C8	2.47	0.49
1:AA:414:A:C6	1:AA:431:A:C2	3.00	0.49
1:AA:437:U:H4'	4:AD:153:ARG:NH2	2.27	0.49
1:AA:721:G:C6	1:AA:733:G:N2	2.80	0.49
1:AA:570:G:H1'	1:AA:820:U:N3	2.27	0.49
1:AA:977:A:H1'	1:AA:982:U:O4	2.11	0.49
2:AB:62:ARG:O	2:AB:63:LYS:CB	2.60	0.49
4:AD:57:LYS:CB	4:AD:199:ILE:HB	2.40	0.49
5:AE:113:VAL:CG2	5:AE:114:LEU:N	2.75	0.49
5:AE:104:ILE:HA	5:AE:122:VAL:HG23	1.94	0.49
5:AE:148:SER:HB2	5:AE:151:MET:HB2	1.93	0.49
5:AE:19:ARG:NH1	5:AE:30:PHE:CD2	2.79	0.49
6:AF:38:ARG:HG3	6:AF:39:LEU:H	1.77	0.49
7:AG:67:ASN:O	7:AG:137:ARG:NH1	2.45	0.49
8:AH:104:SER:H	8:AH:125:ILE:HD13	1.76	0.49
11:AK:111:ASP:OD1	11:AK:113:THR:HG23	2.12	0.49
11:AK:71:ASP:O	11:AK:72:ALA:HB2	2.12	0.49
17:AQ:13:SER:HB3	17:AQ:21:VAL:CG1	2.42	0.49
20:AT:28:ARG:CA	20:AT:31:ILE:HD12	2.41	0.49
20:AT:53:MET:O	20:AT:56:ILE:HG23	2.11	0.49
24:AY:76:SER:HB3	24:AY:77:PRO:CD	2.39	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1004:A:C2	1:BA:1026:G:N3	2.80	0.49
1:BA:1085:U:H5'	1:BA:1094:G:N2	2.27	0.49
1:BA:108:G:N3	1:BA:108:G:H5'	2.27	0.49
1:BA:1234:C:O2'	1:BA:1235:U:H5'	2.12	0.49
1:BA:1245:C:C5	1:BA:1246:A:N7	2.80	0.49
1:BA:187:G:H5''	1:BA:188:C:OP2	2.12	0.49
1:BA:457:G:C5	1:BA:458:U:C5	2.99	0.49
1:BA:549:C:C2'	1:BA:550:G:O5'	2.60	0.49
1:BA:91:U:C2	1:BA:92:U:C6	3.00	0.49
1:BA:9:G:OP1	5:BE:107:GLY:CA	2.60	0.49
2:BB:119:GLN:HA	2:BB:122:ASP:HB2	1.93	0.49
2:BB:40:ILE:HG21	2:BB:201:GLY:HA2	1.94	0.49
3:BC:178:ARG:HG2	3:BC:178:ARG:HH11	1.76	0.49
4:BD:196:GLU:H	4:BD:196:GLU:CD	2.14	0.49
4:BD:32:LYS:CG	4:BD:32:LYS:O	2.59	0.49
5:BE:104:ILE:CD1	5:BE:114:LEU:HB3	2.43	0.49
7:BG:125:ASP:O	7:BG:129:ASN:HA	2.12	0.49
9:BI:16:ALA:HB2	9:BI:66:VAL:HB	1.94	0.49
12:BL:32:VAL:HG23	12:BL:55:ARG:O	2.12	0.49
12:BL:71:HIS:ND1	12:BL:71:HIS:C	2.65	0.49
13:BM:22:TYR:CD2	13:BM:68:LEU:HD23	2.47	0.49
16:BP:60:TRP:O	16:BP:63:GLN:N	2.44	0.49
25:CA:1081:U:H6	25:CA:1081:U:OP2	1.95	0.49
25:CA:1767:G:O2'	25:CA:1768:C:H5'	2.12	0.49
25:CA:1800:C:H3'	27:CC:145:MET:HE1	1.95	0.49
25:CA:1856:U:H2'	25:CA:1857:G:H5'	1.93	0.49
25:CA:1924:C:H3'	25:CA:1925:C:H5'	1.93	0.49
25:CA:1:G:N3	25:CA:2:G:C8	2.80	0.49
25:CA:593:U:H2'	25:CA:594:U:C6	2.47	0.49
26:CB:77:U:C2'	26:CB:78:A:H5'	2.41	0.49
28:CD:142:VAL:HB	28:CD:143:PRO:CD	2.42	0.49
30:CF:118:ALA:HB1	30:CF:166:ARG:CD	2.36	0.49
46:CV:40:ILE:HG21	46:CV:42:LEU:HD21	1.93	0.49
25:DA:1229:C:H2'	25:DA:1230:A:H8	1.76	0.49
25:DA:1557:C:C5	25:DA:1558:C:C2	3.00	0.49
25:DA:170:U:O2'	25:DA:171:U:H5'	2.13	0.49
25:DA:1789:A:H2'	25:DA:1790:C:C6	2.47	0.49
25:DA:1926:U:H1'	25:DA:1929:G:O6	2.12	0.49
25:DA:2135:A:N1	25:DA:2136:G:H1'	2.27	0.49
25:DA:2162:G:C5'	25:DA:2171:A:H2'	2.42	0.49
25:DA:2407:A:H2'	25:DA:2408:U:H6	1.76	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2648:G:H2'	25:DA:2649:C:O4'	2.12	0.49
25:DA:2817:U:P	38:DN:99:LYS:HE2	2.53	0.49
25:DA:446:G:OP1	41:DQ:2:ARG:HD2	2.12	0.49
25:DA:569:U:H1'	25:DA:947:A:O4'	2.11	0.49
56:DB:21:G:C5	56:DB:22:U:C6	3.00	0.49
27:DC:259:ASN:O	27:DC:260:LYS:HB2	2.12	0.49
30:DF:2:LYS:HG2	30:DF:3:LEU:N	2.27	0.49
25:DA:2311:A:N7	30:DF:76:PHE:CE2	2.80	0.49
31:DG:26:LYS:O	31:DG:26:LYS:HG3	2.11	0.49
31:DG:67:ALA:O	31:DG:70:LEU:N	2.46	0.49
32:DH:34:GLY:O	32:DH:35:LYS:CG	2.59	0.49
34:DJ:55:ILE:HD11	34:DJ:132:HIS:HB2	1.94	0.49
34:DJ:42:ALA:O	41:DQ:63:ARG:HD3	2.12	0.49
37:DM:21:ALA:HB3	37:DM:100:LYS:N	2.27	0.49
37:DM:49:ALA:HB1	37:DM:124:LEU:HD21	1.94	0.49
40:DP:31:VAL:HG23	40:DP:32:VAL:N	2.27	0.49
25:DA:508:A:N6	43:DS:9:HIS:CE1	2.80	0.49
1:AA:1085:U:C6	1:AA:1094:G:N1	2.80	0.49
1:AA:1181:G:C2	1:AA:1182:G:N2	2.80	0.49
1:AA:1314:C:N3	1:AA:1315:U:C5	2.80	0.49
1:AA:233:C:C2	1:AA:234:C:C5	3.01	0.49
1:AA:256:U:H2'	1:AA:257:G:H8	1.76	0.49
1:AA:406:G:C4	1:AA:407:U:C5	3.01	0.49
1:AA:429:U:H1'	1:AA:430:A:C5'	2.41	0.49
1:AA:439:U:C2'	1:AA:440:C:O5'	2.60	0.49
1:AA:451:A:H5'	1:AA:452:A:N3	2.27	0.49
1:AA:828:U:H2'	1:AA:829:G:O5'	2.12	0.49
1:AA:64:G:N7	1:AA:99:C:C4	2.80	0.49
2:AB:150:ILE:O	2:AB:151:LYS:O	2.30	0.49
2:AB:66:ILE:O	2:AB:67:LEU:CB	2.59	0.49
2:AB:81:ASP:OD1	2:AB:83:ALA:HB3	2.13	0.49
3:AC:15:LYS:HG3	3:AC:16:PRO:HD2	1.93	0.49
6:AF:46:GLN:HA	6:AF:56:LYS:HG2	1.95	0.49
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.27	0.49
10:AJ:67:ILE:HG13	14:AN:96:LEU:HD13	1.94	0.49
11:AK:34:THR:OG1	11:AK:35:ASP:N	2.45	0.49
17:AQ:11:VAL:O	17:AQ:12:VAL:CG1	2.60	0.49
17:AQ:15:LYS:HD2	17:AQ:15:LYS:C	2.33	0.49
24:AY:44:GLU:HA	24:AY:44:GLU:OE1	2.12	0.49
1:BA:104:G:O2'	1:BA:105:G:H5'	2.12	0.49
1:BA:1110:A:H2'	1:BA:1111:A:C8	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1124:G:H5'	10:BJ:37:ARG:O	2.11	0.49
1:BA:1261:A:C5'	1:BA:1262:C:OP2	2.60	0.49
1:BA:468:A:N7	1:BA:469:C:O2	2.45	0.49
2:BB:169:HIS:CD2	2:BB:170:ILE:H	2.30	0.49
2:BB:54:ALA:O	2:BB:57:ASN:O	2.29	0.49
8:BH:77:VAL:HG11	8:BH:124:ILE:CG1	2.41	0.49
9:BI:98:ARG:HA	9:BI:103:VAL:CG1	2.41	0.49
9:BI:11:ARG:HG3	9:BI:11:ARG:O	2.11	0.49
11:BK:14:GLN:C	11:BK:14:GLN:HE21	2.15	0.49
11:BK:51:PHE:CE2	11:BK:61:ALA:HA	2.47	0.49
13:BM:16:ILE:O	13:BM:20:SER:OG	2.30	0.49
1:BA:995:C:H5'	14:BN:7:ALA:HB1	1.95	0.49
16:BP:11:ALA:O	16:BP:12:LYS:C	2.50	0.49
16:BP:78:VAL:O	16:BP:78:VAL:HG22	2.11	0.49
17:BQ:14:ASP:HA	17:BQ:20:ILE:HD11	1.92	0.49
20:BT:34:VAL:O	20:BT:38:ILE:HG13	2.12	0.49
22:BV:49:C:N3	22:BV:50:U:C5	2.79	0.49
25:CA:1026:G:H2'	25:CA:1027:A:H8	1.74	0.49
25:CA:1417:C:C2'	25:CA:1418:G:H5'	2.43	0.49
25:CA:1690:A:H2'	25:CA:1691:C:O4'	2.12	0.49
25:CA:1734:G:N3	25:CA:1735:A:C8	2.80	0.49
25:CA:1783:A:C2	25:CA:2588:G:O4'	2.65	0.49
25:CA:2221:G:H2'	25:CA:2222:C:C5'	2.42	0.49
25:CA:2485:G:H5''	37:CM:45:GLN:HE21	1.77	0.49
25:CA:353:C:H2'	25:CA:353:C:O2	2.12	0.49
25:CA:897:C:C6	25:CA:897:C:O5'	2.64	0.49
25:CA:905:A:C6	25:CA:906:U:C5	3.01	0.49
25:CA:996:A:C2	25:CA:997:G:C8	3.00	0.49
27:CC:176:ARG:HH21	27:CC:176:ARG:CG	2.24	0.49
29:CE:120:VAL:HA	29:CE:188:MET:O	2.12	0.49
30:CF:48:LEU:O	30:CF:51:ASN:HB2	2.11	0.49
33:CI:56:VAL:HG22	33:CI:68:PHE:CD2	2.47	0.49
41:CQ:60:TRP:O	41:CQ:61:ILE:C	2.51	0.49
43:CS:29:VAL:CG1	43:CS:55:ILE:HD11	2.43	0.49
47:CW:32:ILE:HG23	47:CW:54:THR:HG23	1.94	0.49
25:DA:1178:C:H2'	25:DA:1179:G:C5	2.47	0.49
25:DA:1347:A:C6	25:DA:1348:C:C2	3.00	0.49
25:DA:1414:C:C2	25:DA:1415:U:C5	3.00	0.49
25:DA:1586:A:H2'	25:DA:1587:G:O4'	2.12	0.49
25:DA:1708:C:H2'	25:DA:1709:U:H6	1.78	0.49
25:DA:1971:U:C6	25:DA:1971:U:C3'	2.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2154:A:H2'	25:DA:2155:U:C6	2.47	0.49
25:DA:2390:U:OP2	54:D3:34:LYS:HE2	2.12	0.49
25:DA:2472:G:N2	25:DA:2529:G:C6	2.80	0.49
31:DG:75:VAL:C	31:DG:77:GLY:N	2.64	0.49
32:DH:40:THR:O	32:DH:40:THR:OG1	2.31	0.49
36:DL:91:ASP:HB2	36:DL:94:THR:HG21	1.93	0.49
40:DP:26:GLU:HB2	40:DP:43:GLU:HG3	1.93	0.49
43:DS:29:VAL:O	43:DS:33:LEU:HB2	2.12	0.49
45:DU:93:ARG:C	45:DU:102:ILE:HD12	2.32	0.49
49:DY:24:GLU:O	49:DY:27:ASN:HB2	2.12	0.49
1:AA:1323:G:C6	1:AA:1324:A:C6	3.00	0.49
1:AA:632:U:C6	1:AA:632:U:H3'	2.47	0.49
1:AA:794:A:H2'	1:AA:795:C:C6	2.48	0.49
1:AA:809:G:C2'	1:AA:810:C:O5'	2.60	0.49
1:AA:874:G:C4	1:AA:875:U:C6	3.00	0.49
2:AB:63:LYS:HB3	2:AB:65:LYS:HE2	1.95	0.49
3:AC:148:ILE:O	3:AC:169:GLU:O	2.30	0.49
3:AC:51:VAL:HA	3:AC:69:THR:HA	1.95	0.49
3:AC:86:LEU:HA	3:AC:89:VAL:HG22	1.94	0.49
5:AE:103:GLY:O	5:AE:104:ILE:HG22	2.12	0.49
5:AE:45:VAL:HG22	5:AE:117:ALA:CB	2.42	0.49
6:AF:84:VAL:HG13	6:AF:84:VAL:O	2.11	0.49
7:AG:45:ALA:CB	7:AG:119:LEU:HB3	2.42	0.49
8:AH:4:ASP:HB2	8:AH:80:PRO:HG2	1.93	0.49
16:AP:79:ASN:O	16:AP:80:LYS:HB2	2.12	0.49
18:AR:67:LEU:HD23	18:AR:68:PRO:HD3	1.95	0.49
20:AT:54:GLN:HG3	20:AT:75:LYS:NZ	2.27	0.49
20:AT:34:VAL:CG1	20:AT:78:LEU:HD22	2.42	0.49
21:AU:25:ALA:O	21:AU:26:GLY:C	2.50	0.49
22:AV:18:G:N3	22:AV:18:G:H2'	2.27	0.49
1:BA:1061:G:H2'	1:BA:1062:U:C5'	2.42	0.49
1:BA:1083:U:C5	1:BA:1084:G:C5	3.01	0.49
1:BA:1195:C:N3	1:BA:1197:A:C8	2.81	0.49
1:BA:1342:C:H5''	9:BI:126:PHE:HE2	1.77	0.49
1:BA:1478:U:O2'	1:BA:1479:C:H5'	2.13	0.49
1:BA:211:G:H2'	1:BA:212:G:O4'	2.11	0.49
1:BA:327:A:O3'	1:BA:328:C:H4'	2.13	0.49
1:BA:631:C:C5'	1:BA:632:U:H5'	2.41	0.49
1:BA:596:A:N1	1:BA:645:G:C4	2.79	0.49
1:BA:681:A:H2'	1:BA:682:G:O4'	2.11	0.49
1:BA:98:A:H2'	1:BA:99:C:H6	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:25:LYS:HA	5:BE:25:LYS:HE2	1.94	0.49
6:BF:61:LEU:CG	6:BF:62:MET:H	2.25	0.49
8:BH:85:TYR:C	8:BH:86:LYS:HD2	2.33	0.49
9:BI:27:ILE:HG13	9:BI:62:LEU:HD21	1.94	0.49
13:BM:45:SER:O	13:BM:46:GLU:HB3	2.13	0.49
14:BN:7:ALA:O	14:BN:8:ARG:C	2.51	0.49
1:BA:624:C:H4'	16:BP:10:GLY:O	2.11	0.49
16:BP:53:ASP:OD2	16:BP:56:ARG:HG2	2.11	0.49
1:BA:1223:C:P	19:BS:77:ARG:NH1	2.85	0.49
25:CA:1327:A:N6	25:CA:1328:A:C2	2.80	0.49
25:CA:1424:G:H2'	25:CA:1425:G:O4'	2.12	0.49
25:CA:1530:G:H5'	25:CA:1531:C:OP2	2.12	0.49
25:CA:1599:U:P	44:CT:40:LYS:HG3	2.53	0.49
25:CA:2181:U:O2'	25:CA:2182:U:H5'	2.12	0.49
25:CA:2309:A:N6	25:CA:2310:C:N4	2.60	0.49
25:CA:2875:C:H2'	25:CA:2876:G:O5'	2.12	0.49
25:CA:2884:U:O2	25:CA:2884:U:O4'	2.30	0.49
25:CA:898:C:H2'	25:CA:899:A:O4'	2.13	0.49
28:CD:55:LYS:HD2	28:CD:60:VAL:HG22	1.93	0.49
29:CE:149:ILE:HD11	29:CE:172:ALA:N	2.27	0.49
32:CH:31:VAL:HG12	32:CH:32:PRO:CD	2.42	0.49
32:CH:3:VAL:HA	32:CH:39:ALA:N	2.28	0.49
33:CI:18:ASN:HD21	33:CI:27:LEU:HD21	1.78	0.49
33:CI:71:LYS:HD2	33:CI:71:LYS:N	2.27	0.49
37:CM:74:THR:O	37:CM:75:GLU:HG3	2.13	0.49
38:CN:79:LEU:HD12	38:CN:79:LEU:H	1.76	0.49
25:CA:580:U:O3'	41:CQ:30:VAL:HG13	2.13	0.49
49:CY:17:GLU:HA	49:CY:17:GLU:OE2	2.13	0.49
51:D0:35:GLU:OE2	51:D0:45:ASP:HB2	2.13	0.49
25:DA:1169:A:C2	25:DA:1181:U:O2	2.66	0.49
25:DA:1448:G:C4	25:DA:1449:G:C8	3.01	0.49
25:DA:2127:G:C4'	25:DA:2128:G:OP1	2.57	0.49
25:DA:2199:A:C5	25:DA:2225:A:C2	3.00	0.49
25:DA:2292:U:H2'	25:DA:2293:G:C8	2.46	0.49
25:DA:2335:A:C8	25:DA:2337:G:N7	2.80	0.49
25:DA:2345:G:C5	25:DA:2381:A:N1	2.81	0.49
25:DA:2839:G:H2'	25:DA:2840:C:H6	1.78	0.49
25:DA:223:A:N7	25:DA:422:A:H1'	2.27	0.49
25:DA:53:A:N7	25:DA:54:G:C8	2.81	0.49
25:DA:881:G:C2	25:DA:897:C:O2	2.66	0.49
25:DA:942:G:H2'	25:DA:943:A:O4'	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1816:C:C5	27:DC:61:TYR:CD1	3.00	0.49
27:DC:94:LEU:HG	27:DC:95:TYR:O	2.12	0.49
29:DE:129:PRO:HG3	29:DE:156:ASN:OD1	2.11	0.49
29:DE:18:THR:HG22	29:DE:19:PHE:CD2	2.47	0.49
29:DE:83:VAL:HG11	29:DE:86:ALA:HA	1.94	0.49
30:DF:133:GLU:HB3	30:DF:136:ILE:HG23	1.95	0.49
25:DA:2531:A:H5'	31:DG:156:TYR:CZ	2.48	0.49
31:DG:43:LYS:HE3	31:DG:43:LYS:N	2.28	0.49
32:DH:31:VAL:CG1	32:DH:32:PRO:CD	2.91	0.49
33:DI:116:MET:HE3	33:DI:128:ILE:HD11	1.95	0.49
33:DI:19:PRO:HG2	33:DI:23:VAL:HG22	1.93	0.49
36:DL:135:ILE:O	36:DL:140:GLY:HA3	2.12	0.49
38:DN:73:ASN:OD1	38:DN:76:VAL:HG11	2.12	0.49
39:DO:104:GLN:O	39:DO:107:ALA:HB3	2.11	0.49
39:DO:93:ASP:OD2	39:DO:95:SER:HA	2.12	0.49
43:DS:29:VAL:HG11	43:DS:55:ILE:CD1	2.42	0.49
44:DT:7:LEU:CD2	44:DT:46:ALA:HA	2.42	0.49
25:DA:83:A:H5''	45:DU:1:ALA:N	2.28	0.49
57:DW:62:LYS:O	57:DW:78:ILE:HG23	2.12	0.49
1:AA:996:A:C2	1:AA:1046:A:H5'	2.47	0.49
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.46	0.49
1:AA:609:A:O5'	1:AA:609:A:C8	2.66	0.49
1:AA:66:A:C2'	1:AA:67:C:H5'	2.42	0.49
1:AA:858:G:O2'	1:AA:859:G:H5'	2.13	0.49
2:AB:103:TRP:HZ2	2:AB:153:MET:HG2	1.77	0.49
2:AB:30:ILE:HG12	2:AB:38:HIS:HB2	1.95	0.49
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.13	0.49
7:AG:145:GLU:HG3	7:AG:148:LYS:HE2	1.94	0.49
8:AH:88:LYS:HG3	8:AH:89:ASP:N	2.27	0.49
19:AS:12:LEU:O	19:AS:13:HIS:C	2.51	0.49
23:AX:10:G:C6	23:AX:11:U:N3	2.81	0.49
24:AY:140:VAL:O	24:AY:142:ALA:N	2.45	0.49
1:BA:1004:A:C2	1:BA:1026:G:C4	3.01	0.49
1:BA:1272:G:N2	1:BA:1273:C:H1'	2.27	0.49
1:BA:270:A:H2'	1:BA:271:C:O4'	2.13	0.49
1:BA:321:A:C2	1:BA:333:U:O2	2.65	0.49
1:BA:921:U:H2'	1:BA:922:G:O4'	2.12	0.49
1:BA:64:G:C8	1:BA:99:C:C4	3.01	0.49
2:BB:14:HIS:ND1	2:BB:14:HIS:C	2.65	0.49
4:BD:149:LYS:NZ	4:BD:177:MET:HB3	2.26	0.49
5:BE:100:GLU:O	5:BE:100:GLU:OE2	2.30	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:47:LEU:HG	6:BF:56:LYS:N	2.27	0.49
7:BG:14:ASP:OD2	7:BG:16:LYS:N	2.45	0.49
7:BG:68:VAL:HG21	7:BG:103:ILE:HD11	1.93	0.49
15:BO:50:HIS:O	15:BO:53:ARG:HB3	2.13	0.49
19:BS:28:LYS:HB3	19:BS:29:PRO:CD	2.43	0.49
19:BS:44:ILE:CD1	19:BS:63:ASP:HA	2.42	0.49
20:BT:73:ARG:O	20:BT:74:HIS:C	2.51	0.49
20:BT:83:ASN:HA	20:BT:86:ALA:H	1.78	0.49
53:C2:12:ARG:CG	53:C2:13:ASN:N	2.75	0.49
25:CA:1039:A:H2'	25:CA:1040:A:O5'	2.13	0.49
25:CA:1595:C:O2	25:CA:1595:C:H2'	2.12	0.49
25:CA:1872:A:H2'	25:CA:1873:G:O4'	2.13	0.49
25:CA:1936:A:H2	25:CA:1943:U:H3	1.56	0.49
25:CA:2247:A:H2'	25:CA:2248:C:H6	1.77	0.49
25:CA:2748:A:C2	25:CA:2757:A:C5	3.01	0.49
25:CA:535:G:H2'	25:CA:536:G:H5'	1.94	0.49
25:CA:630:G:N2	25:CA:634:C:C4	2.79	0.49
25:CA:627:A:C5	25:CA:637:A:N7	2.80	0.49
26:CB:53:A:H2'	26:CB:54:G:C5'	2.43	0.49
27:CC:161:VAL:CG2	27:CC:175:LEU:HD23	2.42	0.49
28:CD:32:ASN:N	28:CD:32:ASN:HD22	2.09	0.49
30:CF:153:ILE:HD13	30:CF:153:ILE:N	2.27	0.49
32:CH:53:GLU:HG2	32:CH:57:LYS:HD3	1.93	0.49
33:CI:115:ASP:O	33:CI:116:MET:CB	2.60	0.49
33:CI:54:ILE:HG13	33:CI:73:PRO:HB3	1.94	0.49
35:CK:70:ARG:CD	35:CK:76:VAL:HG22	2.43	0.49
36:CL:78:ARG:CZ	36:CL:113:ALA:HB1	2.42	0.49
39:CO:93:ASP:C	39:CO:95:SER:H	2.16	0.49
40:CP:50:ARG:O	40:CP:56:SER:HA	2.13	0.49
55:D4:10:LEU:HD12	55:D4:33:HIS:HA	1.94	0.49
25:DA:149:A:H2'	25:DA:150:U:O5'	2.11	0.49
25:DA:1544:A:N6	25:DA:1545:A:N1	2.60	0.49
25:DA:1788:C:H2'	25:DA:1789:A:H5'	1.95	0.49
25:DA:2293:G:C6	25:DA:2340:A:N1	2.80	0.49
25:DA:2377:A:H2'	25:DA:2378:A:H5'	1.94	0.49
25:DA:2473:U:C4	25:DA:2474:U:C5	3.00	0.49
25:DA:643:A:N3	25:DA:643:A:H2'	2.26	0.49
25:DA:870:U:C4	25:DA:871:U:C5	3.00	0.49
56:DB:46:A:C5	56:DB:47:C:C4	3.01	0.49
27:DC:170:TYR:HD2	27:DC:184:GLU:HA	1.77	0.49
27:DC:66:PHE:CE2	27:DC:155:ARG:NH2	2.80	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:149:ILE:HD12	29:DE:150:THR:N	2.26	0.49
25:DA:2316:G:H4'	30:DF:124:ARG:HD3	1.95	0.49
31:DG:8:VAL:HG23	31:DG:68:ARG:CD	2.41	0.49
32:DH:112:LYS:HA	32:DH:115:VAL:HG23	1.95	0.49
32:DH:41:LYS:O	32:DH:44:ILE:HG12	2.12	0.49
35:DK:47:ILE:HB	35:DK:48:PRO:HD3	1.93	0.49
36:DL:2:ARG:HA	36:DL:5:THR:CG2	2.41	0.49
36:DL:91:ASP:CB	36:DL:94:THR:CG2	2.91	0.49
37:DM:107:GLY:C	37:DM:108:VAL:CG2	2.81	0.49
41:DQ:51:GLN:HA	41:DQ:54:ARG:HG3	1.95	0.49
41:DQ:8:ILE:O	41:DQ:12:ARG:HG3	2.11	0.49
44:DT:29:THR:HG23	44:DT:86:THR:CA	2.42	0.49
48:DX:26:ARG:HG3	48:DX:27:ARG:N	2.23	0.49
1:AA:1061:G:C5'	1:AA:1062:U:OP2	2.60	0.49
1:AA:1300:G:C5	1:AA:1334:G:C6	3.01	0.49
1:AA:11:G:C2	1:AA:24:U:O2	2.65	0.49
1:AA:407:U:O2'	4:AD:112:GLU:HG3	2.13	0.49
1:AA:429:U:O2	1:AA:430:A:C8	2.65	0.49
1:AA:445:G:C2'	1:AA:446:G:H5'	2.43	0.49
1:AA:496:A:H2'	1:AA:496:A:N3	2.26	0.49
1:AA:646:G:C6	1:AA:647:C:C4	3.00	0.49
1:AA:658:C:C4	1:AA:659:U:H5	2.29	0.49
1:AA:929:G:C6	1:AA:930:C:C4	3.00	0.49
2:AB:112:ARG:O	2:AB:116:LEU:HB2	2.12	0.49
2:AB:127:LYS:O	2:AB:128:LEU:O	2.30	0.49
2:AB:136:ARG:O	2:AB:139:GLU:CB	2.60	0.49
3:AC:54:ILE:CG1	3:AC:54:ILE:O	2.60	0.49
3:AC:39:ARG:HG2	3:AC:54:ILE:HG12	1.93	0.49
3:AC:86:LEU:O	3:AC:89:VAL:CG2	2.61	0.49
4:AD:156:ALA:HA	4:AD:159:GLU:HB3	1.94	0.49
4:AD:3:TYR:O	4:AD:4:LEU:CB	2.60	0.49
7:AG:22:LEU:CD2	7:AG:61:PHE:CZ	2.94	0.49
10:AJ:59:LYS:HE3	10:AJ:59:LYS:N	2.26	0.49
10:AJ:91:ASP:C	10:AJ:92:LEU:HG	2.33	0.49
12:AL:43:LYS:CB	12:AL:44:PRO:HD3	2.43	0.49
13:AM:106:ARG:CG	13:AM:106:ARG:HH11	2.25	0.49
16:AP:48:GLU:OE2	16:AP:51:ARG:HG3	2.11	0.49
17:AQ:16:MET:HB2	17:AQ:19:SER:HB3	1.95	0.49
19:AS:5:LYS:HD2	19:AS:6:LYS:HG2	1.94	0.49
21:AU:16:ARG:C	21:AU:18:PHE:H	2.15	0.49
1:BA:1061:G:H2'	1:BA:1062:U:O5'	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1244:G:N2	1:BA:1294:G:C4	2.81	0.49
1:BA:1306:A:H2'	1:BA:1307:U:C6	2.48	0.49
1:BA:1317:C:C4	14:BN:53:ARG:CD	2.96	0.49
1:BA:978:A:C4'	1:BA:1322:C:C5	2.94	0.49
1:BA:976:G:N2	1:BA:1362:A:O2'	2.46	0.49
1:BA:338:A:H2'	1:BA:339:C:C6	2.48	0.49
1:BA:396:C:H2'	1:BA:397:A:H5''	1.95	0.49
1:BA:87:C:H2'	1:BA:88:U:C1'	2.43	0.49
1:BA:919:A:C4	1:BA:920:U:C5	3.01	0.49
5:BE:106:ALA:HB1	5:BE:124:ALA:HB2	1.93	0.49
5:BE:24:VAL:HG23	5:BE:25:LYS:N	2.27	0.49
6:BF:13:ASP:C	6:BF:15:SER:H	2.16	0.49
6:BF:68:GLN:HA	6:BF:71:ILE:CG2	2.43	0.49
8:BH:113:ARG:O	8:BH:116:ARG:HB3	2.12	0.49
9:BI:79:ARG:NH1	9:BI:102:PHE:CD1	2.81	0.49
10:BJ:34:ALA:N	10:BJ:78:GLU:HG2	2.27	0.49
11:BK:110:THR:HA	21:BU:4:LYS:HA	1.94	0.49
15:BO:86:LEU:C	15:BO:88:ARG:H	2.14	0.49
1:BA:1221:G:H5''	19:BS:76:THR:HG21	1.93	0.49
21:BU:25:ALA:HA	21:BU:28:LEU:HB3	1.95	0.49
52:C1:33:LEU:H	52:C1:51:ALA:CB	2.25	0.49
25:CA:1591:A:H2'	25:CA:1592:C:O4'	2.13	0.49
25:CA:228:C:H4'	25:CA:229:C:H5''	1.94	0.49
25:CA:2514:U:H2'	25:CA:2515:C:C6	2.48	0.49
25:CA:277:G:O2'	25:CA:361:G:C6	2.59	0.49
25:CA:547:A:N7	25:CA:548:G:C1'	2.71	0.49
27:CC:96:LYS:HA	27:CC:96:LYS:HE2	1.95	0.49
28:CD:47:ALA:HA	28:CD:84:LEU:HG	1.94	0.49
28:CD:47:ALA:HB1	28:CD:82:PHE:O	2.13	0.49
29:CE:3:LEU:O	29:CE:11:ALA:HA	2.12	0.49
29:CE:177:PRO:O	29:CE:178:VAL:C	2.51	0.49
29:CE:27:LEU:CD1	29:CE:100:MET:HE3	2.42	0.49
30:CF:168:LEU:O	30:CF:168:LEU:HG	2.13	0.49
31:CG:16:VAL:HG22	31:CG:25:ILE:CD1	2.43	0.49
33:CI:52:LEU:HD11	33:CI:81:LYS:HE2	1.95	0.49
33:CI:78:LEU:HD23	33:CI:81:LYS:HZ1	1.77	0.49
35:CK:55:GLY:O	35:CK:56:ASP:C	2.50	0.49
36:CL:110:VAL:HB	36:CL:127:VAL:HG22	1.95	0.49
36:CL:28:GLY:C	36:CL:29:LYS:O	2.51	0.49
37:CM:125:PRO:C	37:CM:126:ILE:HG23	2.33	0.49
25:CA:994:C:H1'	42:CR:10:LYS:HE3	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CT:28:ASN:ND2	44:CT:91:GLN:HB3	2.28	0.49
45:CU:4:ILE:HG22	45:CU:5:ARG:N	2.27	0.49
51:D0:33:SER:HB3	51:D0:47:TYR:CD1	2.48	0.49
25:DA:1054:A:N6	25:DA:1055:G:C6	2.81	0.49
25:DA:1241:A:N7	25:DA:1242:U:C5	2.81	0.49
25:DA:1391:U:O2	25:DA:1394:U:C4	2.65	0.49
25:DA:1345:C:H5'	25:DA:1396:U:H5	1.77	0.49
25:DA:1491:G:C6	25:DA:1500:G:C2	3.00	0.49
25:DA:1410:G:N3	25:DA:1593:A:N1	2.60	0.49
25:DA:2296:U:H4'	25:DA:2297:A:OP1	2.12	0.49
25:DA:2372:U:C4'	52:D1:45:HIS:CD2	2.96	0.49
25:DA:861:A:C2	25:DA:917:A:C4	3.00	0.49
25:DA:945:A:H4'	25:DA:946:C:OP2	2.11	0.49
28:DD:13:ARG:HD3	28:DD:21:SER:OG	2.12	0.49
28:DD:85:ALA:O	28:DD:86:GLU:CB	2.61	0.49
30:DF:37:MET:HB2	30:DF:56:LEU:HD11	1.94	0.49
30:DF:69:ALA:HB3	30:DF:81:GLY:H	1.78	0.49
32:DH:120:GLY:O	32:DH:121:VAL:C	2.50	0.49
33:DI:4:VAL:HA	33:DI:7:TYR:CE1	2.48	0.49
35:DK:104:THR:O	35:DK:106:GLU:N	2.45	0.49
60:DA:3254:HOH:O	36:DL:35:HIS:HD2	1.95	0.49
39:DO:108:ASP:O	39:DO:112:GLU:HG3	2.12	0.49
43:DS:5:ALA:CB	43:DS:54:ALA:HB2	2.42	0.49
25:DA:483:A:H4'	45:DU:46:LYS:HA	1.92	0.49
45:DU:85:ARG:HD3	45:DU:87:GLU:HG3	1.94	0.49
49:DY:21:LEU:O	49:DY:22:LEU:C	2.51	0.49
1:AA:1044:A:C5	1:AA:1045:C:H1'	2.47	0.49
1:AA:1485:U:H2'	1:AA:1486:G:C8	2.48	0.49
1:AA:1537:U:H6	1:AA:1537:U:O5'	1.95	0.49
1:AA:472:U:C5	1:AA:473:U:C5	3.00	0.49
1:AA:600:A:C4	1:AA:639:G:N2	2.80	0.49
1:AA:5:U:H4'	1:AA:6:G:C4	2.47	0.49
1:AA:803:G:C6	1:AA:804:U:N3	2.81	0.49
8:AH:1:SER:O	8:AH:4:ASP:N	2.44	0.49
9:AI:87:MET:HG2	9:AI:88:GLU:N	2.27	0.49
11:AK:82:GLU:HG3	11:AK:108:ASN:HD22	1.77	0.49
14:AN:42:TRP:HE3	14:AN:42:TRP:H	1.60	0.49
15:AO:41:HIS:HD2	15:AO:42:PHE:CE2	2.29	0.49
17:AQ:62:GLU:N	17:AQ:72:TRP:CE3	2.81	0.49
1:BA:1058:G:H2'	1:BA:1059:C:O5'	2.12	0.49
1:BA:1222:G:H5''	19:BS:77:ARG:NH1	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1284:C:H2'	1:BA:1285:A:C8	2.48	0.49
1:BA:1345:U:C5	1:BA:1377:A:C2	3.00	0.49
1:BA:363:A:H2'	1:BA:364:A:C8	2.47	0.49
1:BA:623:C:C2	1:BA:624:C:C6	3.01	0.49
1:BA:71:A:C8	1:BA:71:A:C3'	2.96	0.49
1:BA:577:G:H1'	1:BA:816:A:N3	2.28	0.49
1:BA:972:C:H4'	10:BJ:59:LYS:HE3	1.95	0.49
2:BB:183:PHE:CD1	2:BB:197:PHE:HB2	2.46	0.49
2:BB:224:ARG:O	2:BB:225:SER:CB	2.60	0.49
3:BC:178:ARG:HG2	3:BC:178:ARG:NH1	2.28	0.49
3:BC:57:GLU:HG3	3:BC:64:ARG:HB3	1.94	0.49
4:BD:94:GLU:OE2	4:BD:103:ARG:NH1	2.46	0.49
6:BF:61:LEU:HG	6:BF:62:MET:H	1.78	0.49
16:BP:44:SER:OG	16:BP:46:LYS:CG	2.60	0.49
22:BV:56:C:H2'	22:BV:56:C:O2	2.11	0.49
25:CA:1565:C:H3'	27:CC:17:LYS:HZ3	1.76	0.49
25:CA:1599:U:H2'	25:CA:1600:C:C6	2.48	0.49
25:CA:2152:G:C4	25:CA:2153:C:C6	3.00	0.49
25:CA:2167:U:H2'	25:CA:2169:A:OP2	2.13	0.49
25:CA:2183:A:H2'	25:CA:2184:A:H8	1.77	0.49
25:CA:2204:G:OP2	27:CC:146:LYS:HE3	2.13	0.49
25:CA:1:G:H2'	25:CA:2:G:H8	1.78	0.49
25:CA:894:U:H2'	25:CA:895:U:C6	2.47	0.49
27:CC:194:VAL:HG22	27:CC:195:GLY:N	2.27	0.49
29:CE:134:LEU:HD23	29:CE:160:ALA:O	2.12	0.49
30:CF:20:ASN:O	30:CF:20:ASN:ND2	2.45	0.49
31:CG:9:VAL:HG12	31:CG:9:VAL:O	2.13	0.49
33:CI:32:VAL:HG21	33:CI:58:ILE:CG2	2.42	0.49
34:CJ:31:GLU:O	34:CJ:35:ARG:HG3	2.13	0.49
35:CK:28:SER:C	35:CK:30:ARG:H	2.15	0.49
25:CA:1223:G:P	42:CR:68:ARG:HH12	2.35	0.49
46:CV:80:HIS:CD2	46:CV:81:PRO:CD	2.95	0.49
51:D0:31:LYS:CG	51:D0:32:THR:N	2.75	0.49
52:D1:50:GLU:O	52:D1:51:ALA:HB2	2.13	0.49
25:DA:1030:C:O2	25:DA:1030:C:H2'	2.12	0.49
25:DA:1050:A:C4	25:DA:2751:G:C2	3.01	0.49
25:DA:1073:A:C3'	25:DA:1074:G:H5'	2.42	0.49
25:DA:1179:G:N7	25:DA:1180:U:C1'	2.76	0.49
25:DA:1180:U:H5'	25:DA:1181:U:OP2	2.13	0.49
25:DA:1342:A:N7	25:DA:1397:U:C2	2.81	0.49
25:DA:1448:G:C6	25:DA:1449:G:C6	3.01	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1465:G:C2	25:DA:1466:U:C2	3.00	0.49
25:DA:2006:C:H6	25:DA:2006:C:O5'	1.95	0.49
25:DA:2177:C:N4	25:DA:2178:C:N4	2.60	0.49
25:DA:258:G:H1'	36:DL:104:GLN:NE2	2.27	0.49
25:DA:333:G:C4	25:DA:334:C:C5	3.01	0.49
25:DA:830:G:H1'	25:DA:2448:A:N1	2.28	0.49
25:DA:919:U:C4	25:DA:920:A:C5	3.00	0.49
56:DB:43:C:O2'	30:DF:91:ARG:HG3	2.13	0.49
56:DB:55:U:H2'	56:DB:56:G:O4'	2.12	0.49
29:DE:161:ALA:HB1	29:DE:167:VAL:HG12	1.95	0.49
30:DF:121:PHE:CE1	30:DF:127:TYR:HB2	2.48	0.49
32:DH:14:SER:HA	32:DH:15:LEU:CD2	2.42	0.49
32:DH:21:VAL:O	32:DH:22:LYS:C	2.51	0.49
35:DK:99:ILE:N	35:DK:99:ILE:CD1	2.75	0.49
36:DL:92:LEU:CD2	36:DL:124:GLY:HA3	2.42	0.49
36:DL:59:ARG:CZ	36:DL:59:ARG:HB3	2.41	0.49
38:DN:1:MET:O	38:DN:3:HIS:N	2.46	0.49
40:DP:47:ILE:O	40:DP:48:ALA:HB2	2.12	0.49
43:DS:46:LEU:O	43:DS:49:LYS:HB2	2.12	0.49
45:DU:44:HIS:HB3	45:DU:56:GLY:O	2.11	0.49
46:DV:89:ILE:HG21	46:DV:91:PHE:CE2	2.48	0.49
1:AA:1006:G:C2	1:AA:1007:U:C2	3.01	0.49
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.78	0.49
1:AA:1118:U:H5''	9:AI:105:ARG:HG3	1.95	0.49
1:AA:149:A:C1'	1:AA:1446:A:C2	2.96	0.49
2:AB:129:THR:HB	2:AB:131:LYS:HB3	1.95	0.49
3:AC:105:VAL:C	3:AC:106:ARG:O	2.51	0.49
3:AC:59:PRO:HD2	3:AC:62:SER:O	2.12	0.49
4:AD:168:THR:CG2	4:AD:183:ARG:NH2	2.75	0.49
5:AE:100:GLU:HG3	5:AE:100:GLU:O	2.12	0.49
5:AE:100:GLU:OE2	5:AE:102:THR:HA	2.12	0.49
5:AE:22:LYS:HB3	5:AE:29:ILE:HG23	1.94	0.49
5:AE:40:ASP:C	5:AE:40:ASP:OD1	2.51	0.49
5:AE:39:GLY:HA2	5:AE:44:ARG:O	2.13	0.49
6:AF:17:GLN:HA	6:AF:17:GLN:HE21	1.78	0.49
7:AG:82:SER:CB	7:AG:84:TYR:CD2	2.96	0.49
8:AH:65:PHE:CD1	8:AH:65:PHE:C	2.82	0.49
10:AJ:33:GLY:HA3	10:AJ:83:THR:OG1	2.11	0.49
13:AM:22:TYR:CD2	13:AM:68:LEU:HD23	2.48	0.49
13:AM:70:ARG:HD2	13:AM:74:MET:CE	2.43	0.49
14:AN:87:ALA:HB3	14:AN:93:ILE:HD11	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:80:LEU:O	15:AO:84:LEU:HB2	2.13	0.49
15:AO:85:GLY:O	15:AO:86:LEU:HB3	2.13	0.49
17:AQ:60:ILE:HG23	17:AQ:72:TRP:HE3	1.78	0.49
21:AU:14:ALA:O	21:AU:15:LEU:CB	2.60	0.49
22:AV:17:C:O3'	22:AV:18:G:H4'	2.12	0.49
24:AY:59:THR:O	24:AY:66:LEU:HD22	2.13	0.49
24:AY:59:THR:HG22	24:AY:60:VAL:C	2.33	0.49
24:AY:77:PRO:O	24:AY:81:LYS:HG2	2.13	0.49
1:BA:1052:U:H5''	1:BA:1053:G:OP2	2.12	0.49
1:BA:1315:U:O4	1:BA:1316:G:C6	2.66	0.49
1:BA:1315:U:O4	1:BA:1316:G:N1	2.45	0.49
1:BA:19:A:C4	1:BA:917:G:N2	2.81	0.49
1:BA:204:G:C2'	1:BA:205:A:O5'	2.61	0.49
1:BA:207:C:O2'	1:BA:213:G:N2	2.46	0.49
1:BA:659:U:C2'	1:BA:660:C:O5'	2.61	0.49
1:BA:677:U:H3	1:BA:713:G:H1	1.59	0.49
1:BA:715:A:H1'	1:BA:777:A:N1	2.28	0.49
1:BA:811:C:H4'	1:BA:900:A:N6	2.28	0.49
1:BA:942:G:H2'	1:BA:942:G:N3	2.28	0.49
1:BA:9:G:OP1	5:BE:107:GLY:HA3	2.13	0.49
2:BB:52:ALA:C	2:BB:53:LEU:HD22	2.32	0.49
2:BB:71:THR:HG22	2:BB:72:LYS:H	1.78	0.49
3:BC:18:ASN:HA	3:BC:55:VAL:CG1	2.42	0.49
4:BD:57:LYS:HE2	4:BD:68:GLU:OE1	2.13	0.49
5:BE:94:PHE:CZ	5:BE:96:GLN:CG	2.96	0.49
7:BG:3:ARG:HG3	7:BG:4:ARG:N	2.28	0.49
9:BI:28:VAL:O	9:BI:64:ILE:CG1	2.61	0.49
1:BA:1250:A:H4'	9:BI:69:GLY:O	2.12	0.49
10:BJ:10:LEU:HB2	10:BJ:18:ILE:HD11	1.94	0.49
1:BA:1151:A:H5'	10:BJ:44:THR:H	1.78	0.49
11:BK:37:GLN:OE1	11:BK:37:GLN:HA	2.11	0.49
17:BQ:51:GLU:CG	17:BQ:52:CYS:N	2.76	0.49
17:BQ:44:HIS:CE1	17:BQ:69:THR:HG21	2.47	0.49
17:BQ:8:GLN:HE21	17:BQ:8:GLN:HA	1.77	0.49
25:CA:1495:A:O2'	25:CA:1496:A:C5'	2.60	0.49
25:CA:1838:C:H4'	25:CA:1839:G:H8	1.77	0.49
25:CA:2520:C:C6	25:CA:2567:G:H1'	2.48	0.49
27:CC:210:ALA:O	27:CC:215:VAL:HB	2.12	0.49
28:CD:97:SER:O	28:CD:99:GLU:N	2.46	0.49
33:CI:70:THR:HA	33:CI:71:LYS:HD2	1.95	0.49
36:CL:68:SER:O	36:CL:69:ARG:HB2	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CO:49:VAL:HG12	39:CO:49:VAL:O	2.11	0.49
44:CT:69:ARG:CG	44:CT:69:ARG:O	2.60	0.49
49:CY:22:LEU:HG	49:CY:23:ARG:H	1.78	0.49
53:D2:44:VAL:CG1	53:D2:44:VAL:O	2.61	0.49
25:DA:1062:G:C2	25:DA:1063:G:N1	2.81	0.49
25:DA:1064:C:H4'	33:DI:90:GLY:N	2.28	0.49
25:DA:1066:U:O2	25:DA:1066:U:H2'	2.13	0.49
25:DA:1220:G:N2	25:DA:1230:A:C4	2.81	0.49
25:DA:1494:A:H2'	25:DA:1494:A:N3	2.27	0.49
25:DA:1584:U:H3'	25:DA:1584:U:O2	2.13	0.49
25:DA:2112:G:H5'	25:DA:2113:U:C5	2.47	0.49
25:DA:1420:A:C5	25:DA:2211:A:C6	3.00	0.49
25:DA:2370:G:C6	25:DA:2371:G:C5	3.00	0.49
25:DA:2537:U:H2'	25:DA:2538:C:C6	2.48	0.49
25:DA:2692:G:C6	25:DA:2718:G:C6	3.01	0.49
25:DA:333:G:H2'	25:DA:334:C:C6	2.47	0.49
25:DA:616:A:H2'	25:DA:617:G:H5'	1.95	0.49
25:DA:60:G:N7	25:DA:62:U:C6	2.80	0.49
56:DB:33:G:C4	56:DB:50:A:C2	3.01	0.49
28:DD:181:ASP:OD2	28:DD:184:ARG:HD2	2.12	0.49
31:DG:42:VAL:CA	31:DG:43:LYS:HE2	2.42	0.49
32:DH:32:PRO:HB3	48:DX:38:TRP:CB	2.42	0.49
33:DI:40:ALA:HB3	33:DI:68:PHE:HZ	1.77	0.49
34:DJ:13:ARG:HG2	34:DJ:51:GLY:O	2.13	0.49
36:DL:28:GLY:C	36:DL:29:LYS:O	2.50	0.49
25:DA:857:G:H5'	57:DW:65:PHE:CD1	2.48	0.49
1:AA:1300:G:C4	1:AA:1334:G:C6	3.01	0.49
1:AA:423:G:H3'	1:AA:423:G:N3	2.28	0.49
1:AA:516:U:C4	1:AA:517:G:C6	3.00	0.49
1:AA:564:C:H2'	1:AA:565:U:O4'	2.12	0.49
1:AA:735:C:O2'	1:AA:736:C:H5'	2.13	0.49
4:AD:53:GLN:HE21	4:AD:202:LEU:N	2.10	0.49
15:AO:86:LEU:O	15:AO:87:ARG:HB3	2.13	0.49
20:AT:66:ILE:CG2	20:AT:66:ILE:O	2.60	0.49
21:AU:28:LEU:C	21:AU:28:LEU:HD23	2.33	0.49
22:AV:46:G:H4'	22:AV:47:U:OP1	2.13	0.49
22:AV:63:G:H2'	22:AV:64:A:C8	2.47	0.49
24:AY:152:ASP:O	24:AY:153:ASP:C	2.49	0.49
1:BA:1032:G:N2	1:BA:1033:G:C8	2.81	0.49
1:BA:1211:U:C1'	1:BA:1213:A:C2	2.95	0.49
1:BA:1216:A:H2'	1:BA:1217:C:C6	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:29:U:H5'	1:BA:296:U:OP1	2.12	0.49
1:BA:338:A:H2'	1:BA:339:C:O4'	2.13	0.49
1:BA:658:C:C1'	15:BO:21:THR:HG21	2.43	0.49
1:BA:692:U:O2'	1:BA:694:A:N7	2.37	0.49
1:BA:913:A:H4'	1:BA:914:A:OP1	2.12	0.49
1:BA:91:U:N3	1:BA:92:U:C5	2.81	0.49
1:BA:938:A:C6	1:BA:939:G:C5	3.01	0.49
2:BB:137:THR:O	2:BB:139:GLU:N	2.45	0.49
3:BC:32:LEU:O	3:BC:32:LEU:HD12	2.12	0.49
4:BD:61:ARG:NH1	4:BD:68:GLU:HG2	2.27	0.49
5:BE:104:ILE:HD11	5:BE:114:LEU:CB	2.43	0.49
5:BE:55:VAL:HB	5:BE:56:PRO:HD2	1.95	0.49
6:BF:66:ALA:HB1	6:BF:67:PRO:HD2	1.95	0.49
7:BG:104:VAL:O	7:BG:108:ARG:N	2.45	0.49
8:BH:29:SER:O	8:BH:32:LYS:HB2	2.13	0.49
9:BI:117:LEU:HD12	9:BI:117:LEU:N	2.28	0.49
9:BI:53:LEU:C	9:BI:54:VAL:HG22	2.33	0.49
9:BI:16:ALA:HB2	9:BI:66:VAL:CG2	2.43	0.49
9:BI:88:GLU:CG	9:BI:89:TYR:N	2.76	0.49
11:BK:117:HIS:O	11:BK:118:ASN:HB2	2.12	0.49
12:BL:54:VAL:HG21	12:BL:79:ILE:HD11	1.94	0.49
13:BM:28:ARG:NH1	13:BM:32:ILE:HD11	2.28	0.49
20:BT:78:LEU:O	20:BT:81:GLN:HB2	2.12	0.49
1:BA:1540:U:HO3'	21:BU:17:ARG:CZ	2.25	0.49
22:BV:5:G:N3	22:BV:69:G:C2	2.81	0.49
51:C0:52:LYS:HE2	51:C0:55:ALA:CA	2.43	0.49
54:C3:16:THR:HG23	54:C3:20:GLY:C	2.33	0.49
25:CA:1056:G:C4'	25:CA:1086:A:C8	2.96	0.49
25:CA:122:G:H2'	25:CA:123:G:O4'	2.12	0.49
25:CA:1561:C:H2'	25:CA:1562:U:C6	2.48	0.49
25:CA:186:G:C2	25:CA:187:G:N7	2.81	0.49
25:CA:1875:G:C2'	25:CA:1876:A:OP2	2.60	0.49
25:CA:20:C:O2'	25:CA:21:A:H5'	2.12	0.49
25:CA:2293:G:H2'	25:CA:2294:G:O4'	2.12	0.49
25:CA:687:C:H1'	53:C2:4:THR:HG22	1.95	0.49
27:CC:140:VAL:CG1	27:CC:189:ALA:HB1	2.42	0.49
27:CC:76:VAL:HA	27:CC:113:ASP:O	2.12	0.49
30:CF:59:ILE:HG23	30:CF:137:PHE:CD1	2.48	0.49
31:CG:154:GLU:HG2	31:CG:155:PRO:HD2	1.93	0.49
36:CL:111:ILE:CD1	36:CL:111:ILE:N	2.73	0.49
38:CN:66:ALA:O	38:CN:69:ARG:O	2.30	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CO:7:ARG:HA	39:CO:10:ARG:NH2	2.28	0.49
45:CU:101:THR:CG2	45:CU:102:ILE:N	2.75	0.49
25:DA:118:A:N3	25:DA:178:G:H1'	2.27	0.49
25:DA:1382:G:H5''	25:DA:1383:A:OP2	2.13	0.49
25:DA:1391:U:C2	25:DA:1394:U:O4	2.66	0.49
25:DA:1495:A:OP2	25:DA:1495:A:C8	2.65	0.49
25:DA:1612:C:C2'	25:DA:1613:G:O5'	2.57	0.49
25:DA:1878:G:C5	25:DA:1879:C:C5	3.01	0.49
25:DA:2111:U:O2	25:DA:2118:U:H1'	2.12	0.49
25:DA:2127:G:O3'	25:DA:2128:G:H8	1.96	0.49
25:DA:229:C:H2'	25:DA:230:G:O5'	2.12	0.49
25:DA:2311:A:P	25:DA:2311:A:H3'	2.53	0.49
25:DA:2730:C:H4'	28:DD:175:LEU:HD23	1.94	0.49
25:DA:607:U:H2'	25:DA:608:A:H5'	1.94	0.49
25:DA:611:C:H2'	25:DA:612:G:O4'	2.13	0.49
30:DF:39:VAL:HG13	30:DF:40:GLY:N	2.28	0.49
31:DG:36:LEU:HD13	31:DG:40:VAL:CG1	2.40	0.49
31:DG:39:ALA:CB	31:DG:57:TYR:CB	2.91	0.49
33:DI:56:VAL:CG2	33:DI:57:VAL:N	2.76	0.49
33:DI:53:PRO:O	33:DI:74:PRO:HD3	2.13	0.49
37:DM:118:LYS:CA	37:DM:118:LYS:HE2	2.41	0.49
25:DA:2376:A:C2	39:DO:99:TYR:CE2	3.01	0.49
43:DS:84:ARG:CB	43:DS:96:ILE:HD11	2.43	0.49
57:DW:10:ARG:HG3	57:DW:10:ARG:NH1	2.27	0.49
48:DX:6:VAL:HG12	48:DX:7:THR:N	2.28	0.49
1:AA:1059:C:H2'	1:AA:1060:U:H6	1.78	0.49
1:AA:1233:G:C4	1:AA:1234:C:C5	3.01	0.49
1:AA:1241:G:H2'	1:AA:1242:G:H8	1.78	0.49
1:AA:1538:C:O5'	1:AA:1538:C:H6	1.96	0.49
1:AA:402:G:H2'	1:AA:403:C:H5'	1.94	0.49
1:AA:35:G:C4	1:AA:550:G:N2	2.80	0.49
1:AA:575:G:HO2'	1:AA:821:G:H5'	1.76	0.49
2:AB:106:VAL:HA	2:AB:109:SER:OG	2.12	0.49
2:AB:193:ASP:C	2:AB:195:VAL:N	2.66	0.49
2:AB:56:LEU:HD13	2:AB:57:ASN:N	2.28	0.49
2:AB:63:LYS:C	2:AB:65:LYS:HE2	2.33	0.49
3:AC:41:TYR:CD1	3:AC:42:LEU:HD12	2.48	0.49
4:AD:122:ILE:H	4:AD:122:ILE:HD13	1.78	0.49
4:AD:57:LYS:H	4:AD:199:ILE:HG22	1.76	0.49
5:AE:104:ILE:O	5:AE:104:ILE:HG23	2.13	0.49
5:AE:105:ILE:CG1	5:AE:123:LEU:HB3	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:46:GLN:HA	6:AF:56:LYS:HA	1.94	0.49
6:AF:3:HIS:CB	6:AF:92:THR:HG23	2.43	0.49
7:AG:115:MET:O	7:AG:119:LEU:HB2	2.12	0.49
7:AG:80:GLY:HA3	23:AX:12:A:H4'	1.95	0.49
8:AH:44:PHE:HA	8:AH:70:VAL:HG11	1.95	0.49
9:AI:20:ILE:CD1	9:AI:86:LEU:CD1	2.91	0.49
10:AJ:18:ILE:CG2	10:AJ:19:ASP:N	2.75	0.49
11:AK:30:ILE:HB	11:AK:45:THR:CG2	2.41	0.49
14:AN:25:GLU:C	14:AN:28:ALA:H	2.15	0.49
16:AP:18:GLN:HE21	16:AP:35:ARG:NE	2.10	0.49
17:AQ:71:SER:O	17:AQ:72:TRP:CD1	2.65	0.49
22:AV:65:G:N1	22:AV:66:U:C4	2.81	0.49
1:BA:1265:C:C2	1:BA:1271:A:H2	2.31	0.49
1:BA:976:G:C2	1:BA:1362:A:H2'	2.48	0.49
1:BA:374:A:OP1	1:BA:452:A:C2	2.66	0.49
1:BA:452:A:H62	1:BA:480:U:H3	1.60	0.49
1:BA:76:G:C2	1:BA:95:C:N3	2.81	0.49
2:BB:90:PHE:HD2	2:BB:149:GLY:CA	2.25	0.49
4:BD:31:CYS:O	4:BD:32:LYS:HB3	2.12	0.49
4:BD:99:ASN:OD1	4:BD:110:ARG:NH1	2.46	0.49
5:BE:105:ILE:O	5:BE:105:ILE:HD12	2.13	0.49
6:BF:4:TYR:CD2	6:BF:71:ILE:HD13	2.48	0.49
6:BF:10:VAL:HG12	6:BF:58:HIS:CB	2.43	0.49
7:BG:96:ASN:O	7:BG:99:ALA:HB3	2.12	0.49
9:BI:81:GLY:O	9:BI:84:ARG:CB	2.60	0.49
14:BN:27:LYS:H	14:BN:30:ILE:HD13	1.78	0.49
16:BP:43:ALA:O	16:BP:46:LYS:HG2	2.13	0.49
18:BR:26:ALA:O	18:BR:29:LYS:HG2	2.12	0.49
18:BR:31:TYR:O	18:BR:39:VAL:HB	2.12	0.49
6:BF:88:MET:HE3	18:BR:63:TYR:HD2	1.77	0.49
21:BU:19:LYS:N	21:BU:19:LYS:HZ3	2.11	0.49
25:CA:1103:A:C8	25:CA:1104:C:C5	3.01	0.49
25:CA:1122:G:C2	25:CA:1123:C:C6	3.01	0.49
25:CA:1292:G:H2'	25:CA:1293:C:O5'	2.13	0.49
25:CA:1361:G:C6	25:CA:1362:C:N4	2.81	0.49
25:CA:1737:G:C6	25:CA:1738:G:C2	3.01	0.49
25:CA:186:G:N2	25:CA:187:G:C4	2.81	0.49
25:CA:2207:C:H2'	25:CA:2208:C:H6	1.78	0.49
25:CA:2305:U:H2'	25:CA:2306:C:C6	2.47	0.49
25:CA:2644:G:O2'	25:CA:2645:G:H5'	2.12	0.49
25:CA:2745:C:C4	25:CA:2746:U:C4	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:275:C:C4	25:CA:276:U:H6	2.31	0.49
25:CA:284:U:H2'	25:CA:285:G:C8	2.48	0.49
25:CA:49:A:C8	25:CA:51:G:C2	3.01	0.49
25:CA:657:U:H2'	25:CA:658:U:C6	2.48	0.49
25:CA:734:A:C5	25:CA:735:A:C8	3.01	0.49
25:CA:790:U:O2	25:CA:790:U:O4'	2.26	0.49
25:CA:864:G:C6	25:CA:865:C:N4	2.81	0.49
26:CB:24:G:N2	26:CB:28:C:C2	2.80	0.49
27:CC:16:VAL:HG23	27:CC:203:VAL:CG2	2.43	0.49
27:CC:70:LYS:HE3	27:CC:95:TYR:CD2	2.47	0.49
29:CE:171:ASP:OD1	29:CE:171:ASP:O	2.30	0.49
29:CE:178:VAL:CG1	29:CE:179:SER:N	2.75	0.49
29:CE:44:ARG:O	29:CE:45:ALA:CB	2.59	0.49
31:CG:53:PRO:HD3	31:CG:61:TRP:CZ2	2.48	0.49
33:CI:56:VAL:HG21	33:CI:70:THR:CB	2.43	0.49
35:CK:109:SER:O	35:CK:112:PHE:N	2.46	0.49
38:CN:98:LEU:HD13	51:C0:54:ILE:HD11	1.94	0.49
44:CT:56:GLU:HB2	44:CT:88:LYS:H	1.77	0.49
48:CX:10:ARG:HB2	48:CX:11:PRO:HD2	1.95	0.49
25:DA:1073:A:H3'	25:DA:1074:G:H5'	1.93	0.49
25:DA:1027:A:C6	25:DA:1126:A:N3	2.81	0.49
25:DA:1448:G:H2'	25:DA:1449:G:C8	2.48	0.49
25:DA:1482:G:H1'	25:DA:1509:A:N6	2.28	0.49
25:DA:1685:C:O2'	25:DA:1686:C:H5'	2.12	0.49
25:DA:1796:U:H2'	25:DA:1797:G:C8	2.47	0.49
25:DA:2058:A:H8	25:DA:2058:A:O5'	1.94	0.49
25:DA:2716:C:H2'	25:DA:2717:C:H6	1.77	0.49
25:DA:282:A:H2'	25:DA:283:G:H8	1.78	0.49
25:DA:49:A:H4'	25:DA:51:G:C8	2.48	0.49
25:DA:875:G:N2	25:DA:903:C:C2	2.80	0.49
25:DA:981:A:H5''	60:DA:3598:HOH:O	2.12	0.49
56:DB:74:U:O2	46:DV:29:ILE:HD12	2.13	0.49
27:DC:156:SER:O	27:DC:159:THR:OG1	2.30	0.49
27:DC:213:ARG:HH11	27:DC:213:ARG:HG3	1.77	0.49
29:DE:148:ILE:HA	29:DE:187:VAL:HG12	1.95	0.49
29:DE:24:ASN:O	29:DE:28:VAL:HG23	2.12	0.49
31:DG:30:GLY:C	31:DG:78:VAL:CG1	2.81	0.49
31:DG:7:PRO:HG3	31:DG:50:THR:HG22	1.95	0.49
33:DI:38:CYS:HA	33:DI:41:PHE:CB	2.31	0.49
36:DL:117:THR:HG22	36:DL:118:THR:H	1.78	0.49
36:DL:109:LYS:CG	36:DL:126:ARG:HB3	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:41:LEU:HD12	37:DM:96:ILE:HD11	1.95	0.49
38:DN:116:VAL:HG13	38:DN:116:VAL:O	2.12	0.49
39:DO:6:ALA:O	39:DO:9:ARG:HG2	2.12	0.49
40:DP:27:VAL:HG12	40:DP:29:VAL:HG23	1.95	0.49
40:DP:32:VAL:C	40:DP:34:GLY:H	2.16	0.49
1:AA:1108:G:C2'	1:AA:1108:G:N3	2.74	0.48
1:AA:1213:A:C2	1:AA:1215:G:H1'	2.47	0.48
1:AA:1215:G:N2	1:AA:1216:A:H1'	2.28	0.48
1:AA:1494:G:C2	1:AA:1495:U:C6	3.01	0.48
1:AA:174:A:C6	1:AA:175:C:C4	3.01	0.48
1:AA:270:A:C6	1:AA:271:C:N3	2.81	0.48
1:AA:417:G:C6	1:AA:418:C:N4	2.81	0.48
1:AA:714:G:H5'	1:AA:776:G:H5''	1.95	0.48
2:AB:24:PRO:C	2:AB:26:MET:H	2.16	0.48
3:AC:28:PHE:HE2	3:AC:32:LEU:HD23	1.77	0.48
3:AC:54:ILE:O	3:AC:54:ILE:CD1	2.61	0.48
4:AD:121:ALA:N	4:AD:122:ILE:HD12	2.28	0.48
4:AD:33:ILE:HG13	4:AD:34:GLU:N	2.28	0.48
4:AD:89:LEU:O	4:AD:93:LEU:HD12	2.13	0.48
7:AG:103:ILE:O	7:AG:104:VAL:C	2.51	0.48
10:AJ:36:VAL:HG22	10:AJ:76:ILE:HG12	1.94	0.48
13:AM:2:ARG:CG	13:AM:3:ILE:N	2.75	0.48
17:AQ:12:VAL:HG13	17:AQ:21:VAL:CG1	2.42	0.48
17:AQ:46:HIS:O	17:AQ:73:THR:CG2	2.61	0.48
21:AU:40:PRO:O	21:AU:44:ARG:HD3	2.13	0.48
1:BA:1294:G:H2'	1:BA:1295:U:C6	2.47	0.48
1:BA:1329:A:H5''	13:BM:24:VAL:HA	1.94	0.48
1:BA:487:A:H5''	1:BA:488:C:OP2	2.12	0.48
1:BA:646:G:C4	1:BA:647:C:C6	3.01	0.48
1:BA:765:G:H3'	1:BA:812:G:N2	2.27	0.48
2:BB:151:LYS:HG3	2:BB:152:ASP:N	2.28	0.48
2:BB:20:ARG:NE	2:BB:20:ARG:HA	2.28	0.48
2:BB:67:LEU:HD22	2:BB:69:VAL:HG22	1.93	0.48
3:BC:181:ILE:HG22	3:BC:181:ILE:O	2.12	0.48
3:BC:63:ILE:CG1	3:BC:65:VAL:CG2	2.91	0.48
4:BD:131:ILE:HG22	4:BD:133:SER:H	1.77	0.48
4:BD:144:ILE:N	4:BD:144:ILE:HD12	2.28	0.48
4:BD:202:LEU:C	4:BD:202:LEU:CD1	2.81	0.48
6:BF:38:ARG:NH2	6:BF:96:VAL:HG23	2.28	0.48
9:BI:40:ARG:O	9:BI:44:ARG:NH1	2.45	0.48
11:BK:80:ASN:HB3	11:BK:105:ARG:CG	2.42	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BO:63:ARG:HD3	15:BO:87:ARG:HH22	1.78	0.48
17:BQ:30:HIS:HD2	17:BQ:32:ILE:H	1.61	0.48
17:BQ:32:ILE:HD12	17:BQ:32:ILE:N	2.28	0.48
17:BQ:46:HIS:HB2	17:BQ:66:LEU:CD1	2.43	0.48
20:BT:37:ALA:CB	20:BT:46:ALA:HA	2.43	0.48
25:CA:1069:A:O2'	25:CA:1070:A:H5''	2.12	0.48
25:CA:1348:C:H2'	25:CA:1349:C:H5'	1.95	0.48
25:CA:1730:C:H1'	25:CA:1731:G:C6	2.48	0.48
25:CA:2170:A:C2	25:CA:2171:A:C5	3.01	0.48
25:CA:2491:U:H5'	25:CA:2570:G:H5'	1.95	0.48
25:CA:2590:A:OP2	27:CC:236:GLY:HA2	2.13	0.48
25:CA:361:G:HO2'	25:CA:362:A:P	2.35	0.48
25:CA:368:A:H2'	25:CA:369:U:O5'	2.12	0.48
25:CA:892:A:C2	25:CA:893:C:C6	3.01	0.48
25:CA:967:U:H2'	25:CA:968:C:C6	2.48	0.48
28:CD:125:TRP:CD2	28:CD:160:LYS:HD2	2.48	0.48
29:CE:131:THR:HA	29:CE:160:ALA:HB1	1.93	0.48
29:CE:144:GLU:OE2	29:CE:166:LYS:HD3	2.13	0.48
29:CE:23:PHE:CE1	29:CE:28:VAL:HG21	2.47	0.48
30:CF:142:TYR:HD1	30:CF:145:VAL:HG11	1.78	0.48
30:CF:16:MET:O	30:CF:20:ASN:HA	2.13	0.48
25:CA:2531:A:H4'	31:CG:156:TYR:CD1	2.48	0.48
33:CI:33:ASN:C	33:CI:35:MET:H	2.16	0.48
35:CK:108:ARG:HH12	40:CP:34:GLY:N	2.10	0.48
43:CS:19:LEU:HB3	51:C0:21:LEU:CD1	2.42	0.48
48:CX:69:GLU:O	48:CX:73:ARG:HG2	2.13	0.48
51:D0:36:LYS:O	51:D0:37:HIS:HB3	2.12	0.48
25:DA:643:A:H1'	52:D1:43:ARG:NH2	2.27	0.48
25:DA:1084:A:C6	25:DA:1085:A:N6	2.81	0.48
25:DA:1556:C:H2'	25:DA:1557:C:C5'	2.43	0.48
25:DA:168:G:N2	25:DA:169:G:C1'	2.76	0.48
1:BA:1492:A:O2'	25:DA:1913:A:N1	2.42	0.48
25:DA:2112:G:C2'	25:DA:2112:G:N3	2.73	0.48
25:DA:2110:G:C6	25:DA:2120:G:N7	2.80	0.48
25:DA:2172:U:H4'	25:DA:2173:A:C5'	2.43	0.48
25:DA:2309:A:H2'	25:DA:2310:C:C6	2.48	0.48
25:DA:2402:U:H2'	25:DA:2403:C:OP2	2.13	0.48
25:DA:2545:G:H2'	25:DA:2546:U:O4'	2.13	0.48
25:DA:2721:A:H2'	25:DA:2722:G:O4'	2.13	0.48
25:DA:2723:C:O5'	25:DA:2723:C:H6	1.95	0.48
25:DA:2839:G:C4	25:DA:2840:C:C6	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:278:A:N1	25:DA:362:A:C8	2.81	0.48
25:DA:419:U:C4	25:DA:420:C:N4	2.80	0.48
25:DA:448:U:H4'	25:DA:449:A:OP2	2.13	0.48
25:DA:476:G:O4'	25:DA:505:A:C2	2.66	0.48
25:DA:547:A:C8	25:DA:548:G:N3	2.81	0.48
25:DA:861:A:H3'	25:DA:862:G:H8	1.78	0.48
25:DA:984:A:C4'	25:DA:985:C:OP2	2.60	0.48
28:DD:101:PHE:HB3	28:DD:104:VAL:HG21	1.95	0.48
28:DD:80:TRP:CE3	28:DD:80:TRP:N	2.81	0.48
29:DE:71:GLY:O	29:DE:72:SER:HB2	2.13	0.48
35:DK:99:ILE:HG12	35:DK:115:ILE:HG23	1.94	0.48
29:DE:26:ALA:HB1	36:DL:9:ALA:HB2	1.94	0.48
37:DM:33:LEU:HD22	37:DM:117:PHE:CB	2.43	0.48
39:DO:51:ALA:HB1	39:DO:77:ALA:HB1	1.94	0.48
40:DP:99:LEU:C	40:DP:101:GLU:N	2.67	0.48
40:DP:77:SER:HB3	40:DP:80:VAL:CG1	2.42	0.48
43:DS:36:LEU:HD12	43:DS:48:LYS:HA	1.95	0.48
44:DT:5:GLU:O	44:DT:8:LEU:HB2	2.13	0.48
46:DV:20:LEU:HD22	46:DV:26:PHE:HA	1.95	0.48
25:DA:372:G:OP2	48:DX:60:LYS:HD3	2.13	0.48
1:AA:1061:G:C4	1:AA:1197:A:C2	3.01	0.48
1:AA:564:C:O2'	1:AA:565:U:H5'	2.13	0.48
1:AA:591:U:H2'	1:AA:592:G:C8	2.48	0.48
1:AA:595:A:C2	1:AA:641:U:C2	3.01	0.48
1:AA:656:G:N3	1:AA:657:U:C6	2.81	0.48
1:AA:769:G:C2'	1:AA:770:C:O5'	2.62	0.48
2:AB:95:TRP:CZ3	2:AB:174:GLU:OE2	2.66	0.48
3:AC:28:PHE:C	3:AC:28:PHE:CD2	2.87	0.48
5:AE:125:LYS:HG3	5:AE:126:ALA:N	2.28	0.48
5:AE:150:GLU:O	5:AE:153:ALA:CB	2.60	0.48
6:AF:17:GLN:O	6:AF:17:GLN:NE2	2.45	0.48
6:AF:7:VAL:HG11	18:AR:64:LEU:CD1	2.41	0.48
6:AF:9:MET:HE1	18:AR:64:LEU:HD22	1.95	0.48
20:AT:8:LYS:O	20:AT:9:ARG:C	2.50	0.48
1:AA:1539:C:C5'	21:AU:17:ARG:CG	2.90	0.48
24:AY:123:GLU:HA	24:AY:126:ARG:HG3	1.95	0.48
1:BA:1045:C:C2	1:BA:1046:A:C8	3.01	0.48
1:BA:1149:C:N4	1:BA:1150:A:N6	2.61	0.48
1:BA:1363:A:C8	1:BA:1365:G:C5	3.01	0.48
1:BA:1450:U:H2'	1:BA:1452:C:C4	2.48	0.48
1:BA:146:G:O2'	1:BA:147:G:H5'	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1491:G:H2'	1:BA:1492:A:H8	1.74	0.48
1:BA:270:A:C5	1:BA:271:C:C5	3.01	0.48
1:BA:341:C:H2'	1:BA:342:C:H6	1.78	0.48
1:BA:465:A:N6	1:BA:466:A:C6	2.81	0.48
1:BA:92:U:H2'	1:BA:92:U:O2	2.12	0.48
1:BA:949:A:N3	1:BA:1233:G:N2	2.61	0.48
2:BB:49:PHE:HA	2:BB:52:ALA:HB3	1.94	0.48
3:BC:13:ILE:N	3:BC:13:ILE:HD13	2.27	0.48
4:BD:128:VAL:HG23	4:BD:145:ARG:HD3	1.95	0.48
4:BD:190:LEU:N	4:BD:190:LEU:HD12	2.26	0.48
5:BE:106:ALA:CB	5:BE:124:ALA:HB2	2.43	0.48
6:BF:10:VAL:HG12	6:BF:58:HIS:HB2	1.95	0.48
6:BF:74:LEU:O	6:BF:75:GLU:C	2.52	0.48
6:BF:51:ILE:HD13	6:BF:85:ILE:HD12	1.95	0.48
9:BI:45:MET:HB2	9:BI:48:ARG:CB	2.43	0.48
10:BJ:59:LYS:HD2	10:BJ:60:ASP:H	1.78	0.48
12:BL:43:LYS:CB	12:BL:44:PRO:CD	2.91	0.48
13:BM:108:ARG:O	13:BM:108:ARG:HG3	2.13	0.48
14:BN:77:PHE:N	14:BN:77:PHE:CD1	2.81	0.48
15:BO:62:ARG:O	15:BO:65:LEU:HB2	2.12	0.48
25:CA:1020:A:C2	25:CA:1141:U:C2	3.01	0.48
25:CA:116:C:C2'	25:CA:116:C:O2	2.57	0.48
25:CA:1520:U:H2'	25:CA:1520:U:O2	2.13	0.48
25:CA:1838:C:H4'	25:CA:1839:G:C8	2.48	0.48
25:CA:2139:U:C2	25:CA:2140:G:C8	3.01	0.48
25:CA:2298:A:H2'	25:CA:2299:U:H5'	1.95	0.48
25:CA:348:A:H2'	25:CA:349:U:C6	2.48	0.48
25:CA:473:G:C2'	25:CA:474:G:O5'	2.61	0.48
25:CA:329:G:O4'	25:CA:477:A:H1'	2.13	0.48
25:CA:679:C:C2'	25:CA:680:C:H5'	2.43	0.48
25:CA:686:U:O4	53:C2:12:ARG:HB2	2.13	0.48
25:CA:721:A:H2'	25:CA:722:A:H8	1.73	0.48
28:CD:85:ALA:O	28:CD:86:GLU:O	2.31	0.48
30:CF:131:VAL:HG21	30:CF:136:ILE:HD11	1.94	0.48
30:CF:147:ARG:CG	30:CF:148:VAL:N	2.76	0.48
30:CF:48:LEU:HA	30:CF:51:ASN:ND2	2.28	0.48
25:CA:2531:A:H4'	31:CG:156:TYR:CE1	2.48	0.48
33:CI:79:LEU:HD11	33:CI:132:ALA:CB	2.41	0.48
37:CM:108:VAL:HG12	37:CM:109:PRO:CD	2.43	0.48
49:CY:5:GLU:C	49:CY:7:ARG:H	2.16	0.48
55:D4:24:ARG:NH2	55:D4:36:ARG:HG3	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1096:A:H3'	25:DA:1096:A:H8	1.78	0.48
25:DA:1317:G:H2'	25:DA:1318:U:O4'	2.12	0.48
25:DA:1413:A:C6	25:DA:1590:A:N1	2.81	0.48
25:DA:2293:G:H5''	39:DO:94:ARG:NH1	2.28	0.48
25:DA:2517:C:C2	25:DA:2542:A:N6	2.80	0.48
25:DA:2874:C:H2'	25:DA:2874:C:O2	2.12	0.48
25:DA:418:C:C2	25:DA:419:U:C6	3.01	0.48
56:DB:116:G:H5'	39:DO:55:GLU:CG	2.41	0.48
27:DC:11:GLY:O	27:DC:12:ARG:HB2	2.13	0.48
29:DE:197:GLU:O	29:DE:201:ALA:HB2	2.12	0.48
30:DF:125:GLY:HA2	30:DF:162:ASP:HA	1.94	0.48
31:DG:86:LEU:HD12	31:DG:163:TYR:HA	1.96	0.48
32:DH:117:LEU:HD21	32:DH:121:VAL:CA	2.38	0.48
34:DJ:29:ALA:O	34:DJ:30:THR:C	2.52	0.48
36:DL:103:ILE:H	36:DL:103:ILE:HD13	1.78	0.48
37:DM:21:ALA:CB	37:DM:100:LYS:CA	2.92	0.48
37:DM:130:PHE:CD2	37:DM:130:PHE:C	2.87	0.48
41:DQ:16:ILE:HG22	41:DQ:17:LEU:N	2.28	0.48
42:DR:49:ILE:HG21	42:DR:53:PHE:N	2.25	0.48
46:DV:56:PHE:CD1	46:DV:61:LEU:HD21	2.48	0.48
1:AA:1213:A:N1	1:AA:1215:G:H1'	2.27	0.48
1:AA:1296:C:H4'	1:AA:1302:C:H41	1.78	0.48
1:AA:399:G:H2'	1:AA:400:C:H6	1.77	0.48
1:AA:414:A:C5	1:AA:431:A:C2	3.01	0.48
1:AA:466:A:H5'	1:AA:467:U:OP2	2.13	0.48
2:AB:93:HIS:O	2:AB:94:ARG:C	2.52	0.48
5:AE:100:GLU:HB2	5:AE:121:ASN:HB3	1.95	0.48
5:AE:14:LEU:C	5:AE:14:LEU:CD1	2.81	0.48
5:AE:158:LYS:OXT	8:AH:46:GLU:OE2	2.31	0.48
11:AK:22:ILE:HG22	11:AK:31:VAL:CG2	2.43	0.48
11:AK:70:ALA:O	11:AK:72:ALA:N	2.46	0.48
11:AK:96:ILE:HG13	11:AK:97:ARG:N	2.27	0.48
13:AM:80:MET:CB	13:AM:91:ARG:HH22	2.26	0.48
15:AO:15:GLY:O	15:AO:16:ARG:C	2.51	0.48
21:AU:16:ARG:NH1	21:AU:19:LYS:HG2	2.28	0.48
1:BA:1032:G:C2	1:BA:1033:G:O4'	2.66	0.48
1:BA:1256:A:O4'	1:BA:1258:G:C4	2.66	0.48
1:BA:1261:A:N1	1:BA:1262:C:C4	2.81	0.48
1:BA:1298:U:H4'	1:BA:1299:A:C8	2.48	0.48
1:BA:1379:G:O2'	1:BA:1380:U:H5'	2.14	0.48
1:BA:211:G:C2	1:BA:212:G:H1'	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:307:C:C2'	1:BA:308:C:O5'	2.60	0.48
1:BA:113:G:O4'	1:BA:354:G:H4'	2.13	0.48
1:BA:428:G:H8	1:BA:428:G:OP1	1.96	0.48
1:BA:499:A:C6	1:BA:547:A:C8	3.01	0.48
1:BA:53:A:H2'	1:BA:54:C:O4'	2.12	0.48
1:BA:552:U:H2'	1:BA:553:A:H8	1.78	0.48
1:BA:562:U:H4'	1:BA:563:A:C5'	2.44	0.48
1:BA:607:A:C2	1:BA:608:A:C4	3.00	0.48
1:BA:634:C:H2'	1:BA:635:A:O5'	2.13	0.48
1:BA:74:A:C2	1:BA:97:G:C2	3.01	0.48
1:BA:890:G:HO2'	1:BA:891:U:P	2.36	0.48
1:BA:970:C:O2	1:BA:970:C:H2'	2.12	0.48
2:BB:131:LYS:HA	2:BB:135:MET:SD	2.53	0.48
2:BB:16:GLY:HA3	2:BB:40:ILE:H	1.78	0.48
3:BC:119:ILE:HD11	3:BC:136:ALA:HB1	1.95	0.48
3:BC:139:ASN:HA	3:BC:142:ARG:HB3	1.95	0.48
4:BD:97:LEU:HG	4:BD:117:VAL:HG21	1.96	0.48
9:BI:50:PRO:HG3	9:BI:82:ILE:HD12	1.95	0.48
10:BJ:15:HIS:HB3	10:BJ:70:HIS:CD2	2.48	0.48
10:BJ:6:ILE:HG13	10:BJ:76:ILE:O	2.13	0.48
13:BM:72:ILE:O	13:BM:73:SER:C	2.51	0.48
15:BO:66:LEU:O	15:BO:67:ASP:C	2.49	0.48
15:BO:81:ILE:CG1	15:BO:82:GLU:N	2.75	0.48
1:BA:625:U:H5''	16:BP:16:PHE:CD1	2.48	0.48
17:BQ:68:LYS:O	17:BQ:69:THR:CB	2.61	0.48
25:CA:79:C:O2	25:CA:108:G:C2	2.66	0.48
25:CA:1124:G:H2'	25:CA:1125:G:C5'	2.42	0.48
25:CA:1518:C:O5'	25:CA:1518:C:H6	1.95	0.48
25:CA:208:C:O2	25:CA:208:C:C2'	2.54	0.48
25:CA:2298:A:C5	25:CA:2321:U:C5	3.02	0.48
25:CA:2728:U:O2'	25:CA:2729:G:P	2.70	0.48
25:CA:2801:G:C2	25:CA:2802:G:C4	3.01	0.48
32:CH:69:ALA:CB	32:CH:138:VAL:CG1	2.91	0.48
37:CM:97:GLN:O	37:CM:98:PRO:C	2.50	0.48
40:CP:3:ILE:N	40:CP:3:ILE:HD12	2.29	0.48
49:CY:20:ASN:O	49:CY:21:LEU:C	2.52	0.48
25:CA:96:C:H4'	49:CY:41:HIS:CG	2.49	0.48
54:D3:60:CYS:C	54:D3:61:LEU:HD23	2.34	0.48
54:D3:60:CYS:O	54:D3:62:PRO:HD3	2.13	0.48
25:DA:1050:A:C1'	25:DA:2751:G:N2	2.76	0.48
25:DA:1054:A:C6	25:DA:1055:G:C5	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1429:G:H2'	25:DA:1430:G:O5'	2.13	0.48
25:DA:1559:U:H3'	25:DA:1560:G:H5'	1.94	0.48
25:DA:1476:U:H1'	25:DA:1732:C:C2	2.48	0.48
25:DA:2027:G:C6	25:DA:2028:U:C4	3.02	0.48
25:DA:244:A:C2	25:DA:255:A:C4	3.02	0.48
25:DA:542:C:C3'	25:DA:543:G:H5''	2.44	0.48
25:DA:714:U:H5''	25:DA:715:A:OP2	2.14	0.48
56:DB:25:U:C4	56:DB:26:C:C5	3.01	0.48
27:DC:1:ALA:CB	27:DC:198:GLU:OE2	2.61	0.48
27:DC:251:THR:O	27:DC:252:LYS:HB2	2.13	0.48
30:DF:32:LYS:HA	30:DF:90:LEU:O	2.12	0.48
31:DG:120:ILE:CD1	31:DG:134:GLY:HA3	2.43	0.48
31:DG:43:LYS:H	31:DG:43:LYS:HE3	1.77	0.48
32:DH:127:GLU:HA	32:DH:144:VAL:O	2.13	0.48
37:DM:108:VAL:CG1	37:DM:109:PRO:HD2	2.39	0.48
38:DN:49:GLU:N	38:DN:50:PRO:CD	2.77	0.48
40:DP:113:LEU:O	40:DP:113:LEU:HD23	2.13	0.48
42:DR:9:GLY:C	42:DR:10:LYS:HG2	2.33	0.48
45:DU:12:VAL:HG11	45:DU:17:ASP:C	2.33	0.48
45:DU:4:ILE:C	45:DU:5:ARG:HG2	2.34	0.48
45:DU:5:ARG:O	45:DU:8:ASP:HB3	2.12	0.48
50:DZ:5:LYS:HB2	50:DZ:57:GLU:HG3	1.95	0.48
1:AA:1068:G:N7	1:AA:1094:G:H2'	2.28	0.48
1:AA:1235:U:H2'	1:AA:1236:A:O5'	2.13	0.48
1:AA:189:A:C6	1:AA:190:A:C2	3.02	0.48
1:AA:198:G:H2'	1:AA:199:A:H8	1.79	0.48
1:AA:446:G:C2'	1:AA:447:G:H5'	2.43	0.48
1:AA:462:G:C8	1:AA:463:U:C5	3.01	0.48
1:AA:488:C:H6	1:AA:488:C:O5'	1.96	0.48
1:AA:636:U:H2'	1:AA:637:C:H6	1.77	0.48
1:AA:821:G:H2'	1:AA:822:U:C6	2.48	0.48
2:AB:160:LEU:HB3	2:AB:182:VAL:HA	1.94	0.48
4:AD:2:ARG:CZ	4:AD:114:ARG:CD	2.92	0.48
4:AD:117:VAL:O	4:AD:130:ASN:HB2	2.14	0.48
7:AG:22:LEU:HD21	7:AG:61:PHE:CZ	2.47	0.48
22:AV:24:G:C2'	22:AV:25:C:O5'	2.61	0.48
24:AY:86:SER:O	24:AY:87:ASP:C	2.51	0.48
1:BA:1036:A:N3	1:BA:1036:A:H2'	2.28	0.48
1:BA:1166:G:N1	1:BA:1168:U:H5''	2.28	0.48
1:BA:1256:A:H5'	1:BA:1258:G:C1'	2.43	0.48
1:BA:369:G:C2'	1:BA:370:C:O5'	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:475:C:O2	1:BA:475:C:H2'	2.12	0.48
1:BA:88:U:O4	1:BA:89:U:C4	2.67	0.48
1:BA:979:C:H3'	1:BA:980:C:H6	1.79	0.48
3:BC:147:GLY:HA2	3:BC:170:GLY:HA3	1.95	0.48
6:BF:61:LEU:HD12	6:BF:62:MET:H	1.79	0.48
1:BA:523:A:N6	12:BL:49:ARG:HH12	2.12	0.48
13:BM:92:ARG:HG2	13:BM:92:ARG:HH11	1.77	0.48
15:BO:75:ALA:O	15:BO:77:TYR:N	2.46	0.48
17:BQ:45:VAL:HG22	17:BQ:72:TRP:HB2	1.95	0.48
18:BR:24:ASP:C	18:BR:26:ALA:N	2.65	0.48
21:BU:11:PHE:O	21:BU:12:ASP:HB2	2.14	0.48
21:BU:52:VAL:HG13	21:BU:53:LYS:N	2.28	0.48
22:BV:63:G:H2'	22:BV:64:A:O4'	2.14	0.48
25:CA:1081:U:OP2	25:CA:1081:U:C6	2.66	0.48
25:CA:1348:C:C5	25:CA:1349:C:C5	3.02	0.48
25:CA:1450:G:C6	25:CA:1451:C:N4	2.81	0.48
25:CA:1559:U:H3'	25:CA:1560:G:H5'	1.95	0.48
25:CA:1613:G:C2	25:CA:1619:G:C5	3.01	0.48
25:CA:1707:G:H2'	25:CA:1708:C:O4'	2.14	0.48
25:CA:2149:U:H2'	25:CA:2150:C:C6	2.49	0.48
25:CA:2287:A:C4	25:CA:2289:G:N7	2.82	0.48
25:CA:2305:U:H4'	25:CA:2305:U:OP1	2.14	0.48
25:CA:2813:A:H2'	25:CA:2814:A:H5'	1.94	0.48
25:CA:35:G:C2'	25:CA:36:G:O5'	2.60	0.48
25:CA:572:A:H3'	25:CA:573:U:O4'	2.14	0.48
25:CA:691:C:O2'	25:CA:692:C:H5'	2.14	0.48
27:CC:158:GLY:H	27:CC:194:VAL:HG13	1.79	0.48
25:CA:1567:G:C5	27:CC:82:TYR:CD1	3.01	0.48
25:CA:2683:C:H4'	28:CD:13:ARG:NH1	2.28	0.48
25:CA:2032:G:H1'	28:CD:150:GLN:OE1	2.13	0.48
28:CD:4:LEU:HD11	28:CD:96:ILE:HG22	1.95	0.48
29:CE:175:ILE:HD13	29:CE:196:VAL:CG2	2.43	0.48
30:CF:121:PHE:CE2	30:CF:127:TYR:CD1	3.01	0.48
32:CH:5:LEU:O	32:CH:6:LEU:HD12	2.13	0.48
34:CJ:65:THR:HG23	34:CJ:68:LYS:NZ	2.28	0.48
36:CL:112:LEU:HG	36:CL:112:LEU:O	2.14	0.48
36:CL:77:ILE:HD12	36:CL:100:ILE:HD11	1.96	0.48
25:CA:1154:G:OP2	41:CQ:57:ARG:NH1	2.45	0.48
42:CR:51:VAL:HB	42:CR:52:PRO:HD3	1.94	0.48
42:CR:49:ILE:HG22	42:CR:53:PHE:CA	2.41	0.48
42:CR:62:GLU:O	42:CR:62:GLU:CG	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CT:31:VAL:HA	44:CT:83:ALA:O	2.13	0.48
45:CU:42:LYS:HZ3	45:CU:42:LYS:HB2	1.79	0.48
46:CV:66:ASP:O	46:CV:67:GLY:C	2.52	0.48
25:DA:1073:A:C2'	25:DA:1074:G:H5'	2.43	0.48
25:DA:1104:C:C2	25:DA:1105:U:C5	3.01	0.48
25:DA:1179:G:O6	25:DA:1180:U:C2	2.66	0.48
25:DA:1338:G:C2'	25:DA:1339:G:H5'	2.43	0.48
25:DA:141:G:H5''	25:DA:142:A:C5	2.47	0.48
25:DA:1467:U:C5	25:DA:1468:U:C5	3.01	0.48
25:DA:1498:C:H2'	25:DA:1499:C:H6	1.78	0.48
25:DA:200:U:O4	25:DA:248:G:C2	2.66	0.48
25:DA:2131:U:H5'	25:DA:2132:U:OP1	2.13	0.48
25:DA:2514:U:H2'	25:DA:2515:C:H6	1.77	0.48
25:DA:2615:U:O2	25:DA:2615:U:H2'	2.12	0.48
25:DA:477:A:C6	25:DA:478:A:C6	3.01	0.48
25:DA:615:U:H3'	25:DA:616:A:C5'	2.43	0.48
25:DA:666:A:C5	25:DA:667:U:C5	3.01	0.48
25:DA:871:U:C5'	37:DM:68:PHE:CE2	2.97	0.48
56:DB:51:G:C2'	56:DB:52:A:O5'	2.61	0.48
27:DC:83:ASP:C	27:DC:85:ASN:H	2.17	0.48
25:DA:320:A:H2'	29:DE:131:THR:HG21	1.94	0.48
30:DF:100:GLU:O	30:DF:103:ILE:N	2.46	0.48
30:DF:30:VAL:HG22	30:DF:95:MET:HE3	1.96	0.48
35:DK:92:GLU:O	35:DK:93:GLN:HB2	2.12	0.48
36:DL:23:ILE:HD13	42:DR:84:ARG:CG	2.42	0.48
39:DO:37:ALA:CB	39:DO:106:LEU:HD11	2.40	0.48
42:DR:49:ILE:HG22	42:DR:54:VAL:N	2.28	0.48
45:DU:6:ARG:CG	45:DU:7:ASP:H	2.27	0.48
50:DZ:43:ILE:C	50:DZ:45:GLY:N	2.64	0.48
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.48	0.48
1:AA:1312:G:C2	1:AA:1326:U:C2	3.01	0.48
1:AA:1326:U:H2'	1:AA:1327:C:C6	2.47	0.48
1:AA:1332:A:N3	1:AA:1332:A:H5'	2.29	0.48
1:AA:159:G:C5'	1:AA:159:G:C8	2.96	0.48
1:AA:194:C:H2'	1:AA:195:A:H5'	1.95	0.48
1:AA:276:G:C4	1:AA:277:C:C5	3.01	0.48
1:AA:409:U:C4	1:AA:410:G:C6	3.02	0.48
2:AB:88:GLN:HG3	2:AB:220:VAL:HG11	1.95	0.48
4:AD:169:TRP:HB3	4:AD:183:ARG:CZ	2.43	0.48
4:AD:196:GLU:CD	4:AD:196:GLU:N	2.66	0.48
5:AE:37:VAL:HA	5:AE:47:PHE:HA	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:83:PRO:CA	5:AE:97:PRO:HD3	2.44	0.48
5:AE:94:PHE:CZ	5:AE:96:GLN:HG3	2.48	0.48
11:AK:37:GLN:CA	11:AK:37:GLN:OE1	2.61	0.48
11:AK:30:ILE:HA	11:AK:45:THR:HG22	1.96	0.48
13:AM:33:LEU:HD23	13:AM:38:ILE:CG2	2.43	0.48
15:AO:3:SER:O	15:AO:7:THR:HG23	2.12	0.48
18:AR:22:TYR:CD1	18:AR:22:TYR:C	2.86	0.48
22:AV:59:U:C4	22:AV:60:U:C4	3.00	0.48
1:BA:1048:G:H4'	14:BN:2:LYS:HE2	1.93	0.48
1:BA:1286:U:H3'	1:BA:1286:U:O2	2.13	0.48
1:BA:937:A:H1'	1:BA:1379:G:N2	2.29	0.48
1:BA:141:G:H2'	1:BA:142:G:O4'	2.12	0.48
1:BA:27:G:H2'	1:BA:28:A:O4'	2.12	0.48
1:BA:58:C:C2'	1:BA:59:A:H5'	2.43	0.48
1:BA:615:G:C6	1:BA:626:G:C6	3.01	0.48
1:BA:688:G:H5'	11:BK:48:GLY:HA2	1.95	0.48
1:BA:815:A:H4'	1:BA:817:C:C5	2.48	0.48
2:BB:101:THR:CA	2:BB:178:LEU:HD21	2.44	0.48
2:BB:181:PRO:C	2:BB:182:VAL:HG23	2.34	0.48
2:BB:206:ILE:N	2:BB:206:ILE:HD13	2.29	0.48
3:BC:111:ASP:O	3:BC:115:VAL:HG23	2.13	0.48
3:BC:66:THR:O	3:BC:67:ILE:HG13	2.13	0.48
3:BC:86:LEU:O	3:BC:90:VAL:HG23	2.13	0.48
4:BD:145:ARG:NH2	4:BD:147:LYS:HE3	2.28	0.48
1:BA:933:G:OP2	7:BG:2:ARG:HB3	2.14	0.48
8:BH:7:ALA:HA	8:BH:76:ARG:HG3	1.94	0.48
9:BI:128:LYS:HD3	9:BI:129:ARG:H	1.77	0.48
12:BL:106:VAL:CG2	12:BL:116:TYR:HB3	2.40	0.48
12:BL:63:THR:HG23	12:BL:92:VAL:HA	1.95	0.48
19:BS:50:VAL:O	19:BS:56:HIS:HA	2.13	0.48
19:BS:79:TYR:O	19:BS:80:ARG:CB	2.62	0.48
25:CA:1180:U:HO2'	25:CA:1181:U:P	2.37	0.48
25:CA:1359:A:N7	25:CA:1373:A:C2	2.81	0.48
25:CA:1359:A:C8	25:CA:1373:A:N1	2.81	0.48
25:CA:1592:C:H2'	25:CA:1593:A:C8	2.49	0.48
25:CA:1721:G:C6	25:CA:1738:G:C6	3.01	0.48
25:CA:1840:G:C4	25:CA:1841:U:C6	3.02	0.48
25:CA:184:C:H2'	25:CA:185:G:C8	2.48	0.48
25:CA:1989:G:H2'	25:CA:1990:C:O5'	2.13	0.48
25:CA:2545:G:H2'	25:CA:2546:U:O4'	2.14	0.48
25:CA:592:A:C2	25:CA:666:A:C4	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:702:U:H2'	25:CA:703:U:O4'	2.13	0.48
25:CA:894:U:O2'	25:CA:895:U:H5'	2.14	0.48
27:CC:124:LYS:HD3	27:CC:127:ASN:ND2	2.29	0.48
29:CE:175:ILE:HD13	29:CE:196:VAL:HG21	1.94	0.48
31:CG:73:SER:HA	31:CG:76:ILE:HG12	1.95	0.48
38:CN:24:MET:HG2	38:CN:44:LEU:CD2	2.40	0.48
41:CQ:25:GLY:O	41:CQ:26:ALA:C	2.51	0.48
43:CS:11:ARG:O	43:CS:12:SER:CB	2.61	0.48
25:DA:1087:G:C2	25:DA:1089:A:N3	2.81	0.48
25:DA:1047:G:H1'	25:DA:1110:G:N1	2.28	0.48
25:DA:1873:G:C4	25:DA:1874:C:C5	3.02	0.48
25:DA:1932:A:C2	25:DA:1969:A:C6	3.02	0.48
25:DA:570:G:H2'	25:DA:2030:A:C8	2.47	0.48
25:DA:2137:U:C2	25:DA:2138:G:C8	3.02	0.48
25:DA:2126:A:C4	25:DA:2162:G:O6	2.66	0.48
25:DA:2477:U:H5''	25:DA:2479:U:O4	2.14	0.48
25:DA:349:U:H2'	25:DA:350:G:H8	1.77	0.48
25:DA:680:C:H2'	25:DA:681:G:H8	1.78	0.48
25:DA:861:A:H3'	25:DA:862:G:C8	2.48	0.48
25:DA:2204:G:O5'	27:DC:149:LYS:HE3	2.14	0.48
27:DC:188:ARG:HG3	27:DC:188:ARG:NH2	2.29	0.48
29:DE:149:ILE:HD12	29:DE:150:THR:H	1.78	0.48
29:DE:28:VAL:HG12	29:DE:32:VAL:HG22	1.95	0.48
31:DG:39:ALA:HB2	31:DG:57:TYR:CB	2.43	0.48
32:DH:112:LYS:O	32:DH:115:VAL:HB	2.14	0.48
32:DH:62:LEU:CD1	32:DH:63:ALA:N	2.69	0.48
36:DL:110:VAL:HB	36:DL:127:VAL:HG22	1.95	0.48
38:DN:79:LEU:O	38:DN:80:PHE:HB2	2.13	0.48
39:DO:56:LYS:O	39:DO:57:ALA:C	2.51	0.48
40:DP:20:ARG:HB3	40:DP:21:PRO:CD	2.43	0.48
1:AA:1158:C:N4	1:AA:1160:G:C5	2.81	0.48
1:AA:1245:C:H2'	1:AA:1246:A:C8	2.48	0.48
1:AA:1304:G:C6	1:AA:1305:G:C2	3.02	0.48
1:AA:1319:A:N7	1:AA:1323:G:C5	2.81	0.48
1:AA:941:G:C6	1:AA:1343:G:C6	3.01	0.48
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.96	0.48
1:AA:568:G:O2'	1:AA:574:A:N1	2.28	0.48
1:AA:575:G:H4'	1:AA:576:C:OP1	2.14	0.48
1:AA:634:C:C2	1:AA:635:A:C8	3.02	0.48
1:AA:83:C:H2'	1:AA:85:U:OP2	2.13	0.48
1:AA:859:G:H2'	1:AA:860:A:C8	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:90:PHE:HD2	2:AB:90:PHE:H	1.60	0.48
3:AC:134:LYS:O	3:AC:138:GLN:HG3	2.13	0.48
3:AC:22:PHE:C	3:AC:22:PHE:CD2	2.85	0.48
4:AD:164:ARG:C	4:AD:166:LYS:N	2.66	0.48
5:AE:88:HIS:O	5:AE:89:THR:HB	2.13	0.48
6:AF:39:LEU:HD13	6:AF:40:GLU:N	2.29	0.48
6:AF:40:GLU:HB2	6:AF:42:TRP:HE1	1.78	0.48
7:AG:143:MET:C	7:AG:144:ALA:O	2.47	0.48
10:AJ:81:GLU:HA	10:AJ:84:VAL:HG12	1.94	0.48
11:AK:106:ILE:O	11:AK:106:ILE:HG23	2.13	0.48
12:AL:56:LEU:HB3	12:AL:58:ASN:OD1	2.14	0.48
13:AM:94:LEU:N	13:AM:94:LEU:HD23	2.28	0.48
16:AP:28:ARG:HG2	16:AP:29:ASN:OD1	2.14	0.48
16:AP:52:LEU:HD23	16:AP:78:VAL:HG11	1.95	0.48
17:AQ:16:MET:C	17:AQ:19:SER:HB3	2.33	0.48
19:AS:18:VAL:HG11	19:AS:42:ASN:OD1	2.13	0.48
22:AV:61:C:C2	22:AV:62:C:C5	3.01	0.48
1:BA:1098:C:H2'	1:BA:1099:G:O4'	2.13	0.48
1:BA:1124:G:C2	1:BA:1127:G:C2	3.01	0.48
1:BA:1275:A:H2'	1:BA:1276:G:C5'	2.39	0.48
1:BA:1256:A:C8	1:BA:1278:G:C8	3.02	0.48
1:BA:1473:G:O2'	1:BA:1474:U:H5'	2.14	0.48
1:BA:519:C:O2	1:BA:519:C:C2'	2.57	0.48
1:BA:72:A:C5	1:BA:73:C:N4	2.80	0.48
1:BA:790:A:C6	1:BA:791:G:C6	3.02	0.48
2:BB:134:LEU:CD1	2:BB:138:ARG:HB3	2.43	0.48
2:BB:224:ARG:O	2:BB:225:SER:HB2	2.13	0.48
2:BB:79:VAL:O	2:BB:79:VAL:HG12	2.13	0.48
2:BB:80:LYS:HG2	2:BB:84:LEU:CD2	2.39	0.48
3:BC:102:ILE:N	3:BC:102:ILE:CD1	2.75	0.48
3:BC:22:PHE:CD2	3:BC:22:PHE:C	2.86	0.48
4:BD:61:ARG:HG2	4:BD:71:PHE:CD2	2.49	0.48
5:BE:96:GLN:HB2	5:BE:123:LEU:HB2	1.95	0.48
1:BA:642:A:C5	8:BH:106:SER:HA	2.49	0.48
10:BJ:46:LYS:HE2	10:BJ:68:ARG:NE	2.29	0.48
13:BM:1:ALA:HB1	13:BM:9:PRO:HD2	1.95	0.48
14:BN:64:CYS:SG	14:BN:79:LEU:CD2	3.01	0.48
17:BQ:77:VAL:O	17:BQ:78:VAL:HG22	2.14	0.48
20:BT:35:TYR:CE2	20:BT:36:ALA:HA	2.49	0.48
25:CA:1747:U:H2'	25:CA:1748:C:C6	2.48	0.48
25:CA:1857:G:H1'	25:CA:1884:G:N2	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2127:G:C2'	25:CA:2128:G:C8	2.86	0.48
25:CA:2183:A:O2'	25:CA:2184:A:H5'	2.13	0.48
25:CA:2419:U:OP1	54:C3:40:LYS:HE2	2.13	0.48
25:CA:2438:U:O2'	25:CA:2439:A:H5''	2.13	0.48
25:CA:493:G:H2'	25:CA:494:G:O4'	2.13	0.48
25:CA:640:C:O2'	25:CA:641:U:H5'	2.13	0.48
28:CD:132:ALA:HA	28:CD:140:HIS:HD1	1.79	0.48
28:CD:33:ARG:NH1	28:CD:53:GLY:O	2.46	0.48
32:CH:24:GLY:O	32:CH:25:TYR:C	2.51	0.48
36:CL:117:THR:HG22	36:CL:117:THR:O	2.14	0.48
38:CN:28:LEU:O	38:CN:28:LEU:HD12	2.14	0.48
40:CP:102:ARG:HG3	40:CP:102:ARG:HH11	1.76	0.48
47:CW:17:LEU:HD23	47:CW:35:ARG:HB3	1.96	0.48
52:D1:18:HIS:CD2	52:D1:48:TYR:OH	2.67	0.48
52:D1:9:LYS:O	52:D1:50:GLU:HG2	2.12	0.48
55:D4:16:ILE:HD13	55:D4:25:VAL:CG2	2.44	0.48
25:DA:1057:A:C2	25:DA:1058:U:C6	3.02	0.48
25:DA:1090:A:N1	25:DA:1102:C:C2	2.82	0.48
25:DA:118:A:H1'	25:DA:178:G:O4'	2.14	0.48
25:DA:1347:A:N1	25:DA:1348:C:O2	2.46	0.48
25:DA:1354:A:N7	25:DA:1355:G:C8	2.82	0.48
25:DA:146:A:C2	25:DA:147:C:C2	3.01	0.48
25:DA:1710:G:C2	25:DA:1711:A:C4	3.01	0.48
25:DA:2311:A:C5	30:DF:76:PHE:CD2	3.02	0.48
25:DA:2800:A:C3'	25:DA:2801:G:H5'	2.43	0.48
25:DA:2874:C:C2'	25:DA:2874:C:O2	2.52	0.48
25:DA:629:G:H5''	25:DA:650:C:O2'	2.14	0.48
25:DA:776:G:H4'	25:DA:777:G:O5'	2.13	0.48
25:DA:994:C:H1'	42:DR:10:LYS:HE3	1.94	0.48
27:DC:216:ARG:HB3	27:DC:217:PRO:CD	2.44	0.48
28:DD:39:ASP:O	28:DD:43:ASP:HB2	2.13	0.48
29:DE:177:PRO:O	29:DE:178:VAL:C	2.52	0.48
29:DE:194:LYS:O	29:DE:195:GLN:C	2.52	0.48
32:DH:42:LYS:HD3	32:DH:43:ASN:N	2.28	0.48
32:DH:50:ARG:CA	32:DH:50:ARG:NE	2.76	0.48
35:DK:114:LYS:CE	35:DK:118:LEU:HD21	2.43	0.48
37:DM:135:VAL:O	37:DM:136:MET:O	2.32	0.48
46:DV:20:LEU:O	46:DV:25:LYS:HB2	2.14	0.48
1:AA:1140:C:O2	1:AA:1141:C:C5	2.66	0.48
1:AA:146:G:C2'	1:AA:147:G:H5'	2.44	0.48
1:AA:193:C:H2'	1:AA:194: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:AA:520:A:N1	1:AA:536:C:H1'	2.28	0.48
1:AA:685:G:O2'	1:AA:686:U:H5'	2.14	0.48
2:AB:117:GLU:HA	2:AB:120:SER:HB2	1.96	0.48
2:AB:146:SER:O	2:AB:147:LEU:CB	2.61	0.48
2:AB:155:GLY:O	2:AB:156:LEU:O	2.31	0.48
2:AB:98:GLY:N	2:AB:174:GLU:OE2	2.46	0.48
2:AB:61:SER:C	2:AB:63:LYS:N	2.67	0.48
6:AF:38:ARG:HB3	6:AF:63:ASN:HB2	1.94	0.48
6:AF:89:VAL:HG23	6:AF:90:MET:N	2.28	0.48
9:AI:30:ASN:O	9:AI:32:ARG:N	2.46	0.48
11:AK:22:ILE:HG13	11:AK:22:ILE:O	2.14	0.48
12:AL:2:THR:HB	12:AL:5:GLN:CG	2.43	0.48
13:AM:40:GLU:HG3	13:AM:41:ASP:H	1.77	0.48
13:AM:53:ASP:HA	13:AM:56:ARG:HE	1.79	0.48
22:AV:59:U:C5	22:AV:60:U:O4	2.66	0.48
1:BA:1036:A:H5'	1:BA:1037:C:OP2	2.13	0.48
1:BA:1072:G:C3'	1:BA:1073:U:H6	2.26	0.48
1:BA:1225:A:C2'	1:BA:1226:C:C5	2.94	0.48
1:BA:1226:C:H4'	1:BA:1227:A:OP1	2.14	0.48
1:BA:1150:A:H1'	1:BA:1280:A:N6	2.28	0.48
1:BA:1304:G:O3'	1:BA:1305:G:O4'	2.31	0.48
1:BA:1387:G:C6	1:BA:1388:C:N4	2.82	0.48
1:BA:1423:G:H2'	1:BA:1424:U:C6	2.46	0.48
1:BA:1426:G:O2'	1:BA:1427:C:H5'	2.13	0.48
1:BA:1477:U:O2'	1:BA:1478:U:H5'	2.13	0.48
1:BA:272:C:H2'	1:BA:273:U:H6	1.78	0.48
1:BA:438:U:C2	1:BA:494:G:C6	3.02	0.48
1:BA:782:A:H2'	1:BA:783:C:H5'	1.95	0.48
1:BA:812:G:OP1	1:BA:903:G:H1'	2.13	0.48
5:BE:9:GLU:O	5:BE:10:LEU:C	2.51	0.48
7:BG:41:ILE:HG23	7:BG:116:ALA:HA	1.96	0.48
8:BH:112:ASP:CG	8:BH:113:ARG:H	2.17	0.48
16:BP:7:ALA:HA	16:BP:28:ARG:HG2	1.96	0.48
16:BP:56:ARG:HD2	16:BP:56:ARG:HA	1.64	0.48
19:BS:13:HIS:CD2	19:BS:13:HIS:N	2.81	0.48
1:BA:1458:G:H5'	20:BT:26:MET:HB3	1.96	0.48
20:BT:25:SER:O	20:BT:29:THR:HG23	2.14	0.48
21:BU:24:LYS:CG	21:BU:25:ALA:H	2.25	0.48
22:BV:60:U:H5''	22:BV:61:C:C5	2.49	0.48
25:CA:1090:A:C2'	25:CA:1091:G:O5'	2.62	0.48
25:CA:1385:A:O2'	25:CA:1396:U:O2	2.31	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:35:G:H2'	25:CA:36:G:O5'	2.13	0.48
25:CA:634:C:H6	25:CA:634:C:O5'	1.96	0.48
25:CA:790:U:O5'	25:CA:790:U:C2'	2.62	0.48
26:CB:2:G:N3	26:CB:2:G:H2'	2.29	0.48
30:CF:135:ILE:HD12	30:CF:135:ILE:N	2.29	0.48
31:CG:89:VAL:HG21	31:CG:162:ARG:CZ	2.44	0.48
32:CH:76:GLU:O	32:CH:143:ILE:HB	2.14	0.48
33:CI:54:ILE:HG12	33:CI:73:PRO:HA	1.94	0.48
34:CJ:73:VAL:HG11	34:CJ:75:TYR:CZ	2.49	0.48
36:CL:106:GLU:HB3	36:CL:107:PHE:CE2	2.48	0.48
43:CS:20:VAL:HG11	43:CS:44:ALA:HA	1.96	0.48
25:CA:1392:A:N6	44:CT:18:GLU:CG	2.77	0.48
25:DA:1328:A:H2'	25:DA:1330:C:C5	2.49	0.48
25:DA:1336:A:C2	25:DA:1337:G:C4	3.02	0.48
25:DA:133:U:C6	25:DA:133:U:C3'	2.97	0.48
25:DA:1360:G:H2'	25:DA:1360:G:N3	2.28	0.48
25:DA:1717:A:H2'	25:DA:1718:G:O4'	2.13	0.48
25:DA:1862:G:C2	25:DA:1881:C:O2	2.67	0.48
25:DA:2048:G:H2'	25:DA:2049:G:O5'	2.13	0.48
25:DA:2080:A:C5	25:DA:2081:U:C5	3.01	0.48
25:DA:2293:G:N2	25:DA:2294:G:H1'	2.28	0.48
25:DA:2311:A:C8	25:DA:2311:A:H5'	2.49	0.48
25:DA:2619:C:H5'	28:DD:155:VAL:O	2.13	0.48
25:DA:52:A:C2'	25:DA:53:A:O5'	2.61	0.48
56:DB:25:U:H2'	56:DB:26:C:O4'	2.14	0.48
56:DB:91:C:H2'	56:DB:92:C:C6	2.48	0.48
25:DA:2599:G:N7	27:DC:234:GLY:O	2.47	0.48
29:DE:146:VAL:HG22	29:DE:167:VAL:HG22	1.96	0.48
29:DE:97:ASN:HB2	29:DE:100:MET:HB2	1.95	0.48
30:DF:6:TYR:CE1	30:DF:10:GLU:HB2	2.49	0.48
30:DF:62:GLN:NE2	30:DF:88:VAL:HG13	2.29	0.48
31:DG:162:ARG:CZ	31:DG:168:VAL:HG21	2.43	0.48
31:DG:67:ALA:HA	31:DG:70:LEU:HD12	1.96	0.48
33:DI:96:LYS:HA	33:DI:136:GLY:O	2.14	0.48
25:DA:871:U:H4'	37:DM:68:PHE:CE2	2.49	0.48
40:DP:98:TYR:CD2	40:DP:98:TYR:O	2.66	0.48
43:DS:29:VAL:HG13	43:DS:55:ILE:HD11	1.96	0.48
44:DT:21:SER:O	44:DT:23:ALA:N	2.47	0.48
45:DU:94:PHE:N	45:DU:102:ILE:HD12	2.29	0.48
46:DV:20:LEU:CD2	46:DV:26:PHE:N	2.77	0.48
46:DV:30:ILE:HG12	46:DV:91:PHE:CB	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1213:A:C8	1:AA:1215:G:N7	2.82	0.48
1:AA:1329:A:H2'	1:AA:1330:U:H5'	1.95	0.48
1:AA:1430:A:H8	1:AA:1430:A:OP2	1.95	0.48
1:AA:1503:A:C4	1:AA:1531:A:N3	2.82	0.48
1:AA:307:C:C5	1:AA:308:C:C5	3.02	0.48
1:AA:554:A:H2'	1:AA:555:U:C6	2.49	0.48
1:AA:708:C:H2'	1:AA:709:U:C6	2.47	0.48
1:AA:72:A:N6	1:AA:73:C:N4	2.62	0.48
1:AA:731:G:OP1	1:AA:766:A:H1'	2.13	0.48
1:AA:809:G:C6	1:AA:810:C:C5	3.01	0.48
1:AA:872:A:C4	1:AA:874:G:N7	2.82	0.48
4:AD:156:ALA:O	4:AD:160:LEU:HD13	2.14	0.48
4:AD:54:LEU:HD23	4:AD:55:ARG:HA	1.96	0.48
5:AE:32:PHE:N	5:AE:32:PHE:CD2	2.82	0.48
6:AF:38:ARG:HG3	6:AF:39:LEU:N	2.29	0.48
8:AH:124:ILE:O	8:AH:124:ILE:HG13	2.13	0.48
11:AK:30:ILE:C	11:AK:30:ILE:HD12	2.34	0.48
11:AK:95:THR:HG23	11:AK:96:ILE:H	1.79	0.48
12:AL:54:VAL:HG12	12:AL:56:LEU:HD23	1.96	0.48
10:AJ:65:TYR:OH	14:AN:85:ARG:CD	2.62	0.48
17:AQ:20:ILE:HD13	17:AQ:47:ASP:OD1	2.14	0.48
20:AT:4:LYS:C	20:AT:4:LYS:HE2	2.34	0.48
1:BA:1237:C:C2'	1:BA:1238:A:OP1	2.60	0.48
1:BA:1262:C:C4	1:BA:1263:C:C4	3.02	0.48
1:BA:1299:A:H2'	1:BA:1299:A:N3	2.28	0.48
1:BA:600:A:C2	1:BA:601:G:C5	3.02	0.48
1:BA:634:C:O2'	1:BA:635:A:H5'	2.13	0.48
1:BA:717:U:O2'	1:BA:734:G:O4'	2.27	0.48
3:BC:82:ASP:O	3:BC:85:LYS:HG3	2.13	0.48
12:BL:24:GLU:O	12:BL:25:ALA:O	2.31	0.48
14:BN:14:ALA:O	14:BN:16:ALA:N	2.47	0.48
15:BO:42:PHE:CE1	15:BO:55:LEU:HD22	2.48	0.48
15:BO:3:SER:HB3	15:BO:6:ALA:H	1.79	0.48
16:BP:77:GLU:C	16:BP:79:ASN:N	2.67	0.48
20:BT:35:TYR:C	20:BT:35:TYR:CD1	2.78	0.48
20:BT:72:ALA:O	20:BT:73:ARG:C	2.50	0.48
54:C3:54:LEU:O	54:C3:55:GLY:C	2.50	0.48
25:CA:1079:C:C4	25:CA:1088:A:C6	3.02	0.48
25:CA:1104:C:OP2	25:CA:1104:C:C6	2.67	0.48
25:CA:2191:A:N3	25:CA:2191:A:H2'	2.29	0.48
25:CA:2774:C:H2'	25:CA:2775:G:O4'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:361:G:O2'	25:CA:362:A:O5'	2.30	0.48
26:CB:65:U:O5'	26:CB:65:U:H6	1.97	0.48
27:CC:104:LEU:HD13	27:CC:104:LEU:N	2.28	0.48
27:CC:10:PRO:O	27:CC:11:GLY:O	2.32	0.48
28:CD:136:ASN:HD22	28:CD:140:HIS:CD2	2.31	0.48
29:CE:84:THR:HG22	29:CE:85:PHE:CG	2.48	0.48
30:CF:171:ALA:C	30:CF:173:ASP:H	2.16	0.48
30:CF:71:LYS:HD3	30:CF:72:SER:H	1.78	0.48
30:CF:94:ARG:HB3	30:CF:94:ARG:NH1	2.29	0.48
31:CG:5:LYS:O	31:CG:7:PRO:HD3	2.13	0.48
31:CG:87:GLN:C	31:CG:88:LEU:HD12	2.33	0.48
34:CJ:23:LYS:HE3	34:CJ:142:ILE:OXT	2.13	0.48
28:CD:157:LYS:HE3	34:CJ:79:GLY:O	2.14	0.48
36:CL:77:ILE:N	36:CL:77:ILE:HD13	2.27	0.48
44:CT:12:ARG:HH21	49:CY:29:ARG:NH2	2.12	0.48
49:CY:9:LYS:H	49:CY:12:GLU:HB2	1.78	0.48
25:DA:1097:U:C3'	25:DA:1098:A:H5'	2.44	0.48
25:DA:1354:A:N7	25:DA:1355:G:C4	2.82	0.48
25:DA:1421:G:C2	25:DA:1422:G:C8	3.02	0.48
25:DA:1528:A:H2'	25:DA:1529:G:O4'	2.13	0.48
25:DA:1779:U:O4	25:DA:1784:A:C8	2.66	0.48
25:DA:563:A:C4	25:DA:2018:G:C2	3.02	0.48
25:DA:2347:C:H2'	25:DA:2348:U:C6	2.48	0.48
25:DA:2414:G:C5	25:DA:2415:G:N7	2.82	0.48
25:DA:2555:U:H5	25:DA:2556:C:C2	2.31	0.48
25:DA:2648:G:H2'	25:DA:2649:C:H6	1.75	0.48
25:DA:404:A:C2	25:DA:406:G:N3	2.82	0.48
25:DA:67:U:C2	25:DA:68:G:C8	3.01	0.48
25:DA:833:A:P	36:DL:39:LYS:HE2	2.54	0.48
25:DA:898:C:C2'	25:DA:899:A:H5'	2.43	0.48
25:DA:967:U:H2'	25:DA:968:C:C6	2.49	0.48
32:DH:76:GLU:O	32:DH:76:GLU:CG	2.62	0.48
33:DI:11:GLN:NE2	33:DI:53:PRO:HA	2.29	0.48
40:DP:51:ASN:H	40:DP:51:ASN:ND2	2.12	0.48
42:DR:63:VAL:HA	42:DR:95:ASP:O	2.13	0.48
42:DR:61:ALA:CB	42:DR:97:LYS:O	2.59	0.48
45:DU:45:GLN:O	45:DU:45:GLN:HG2	2.13	0.48
49:DY:50:VAL:O	49:DY:54:LYS:HG3	2.13	0.48
49:DY:56:LEU:HD23	49:DY:59:GLU:OE1	2.13	0.48
50:DZ:5:LYS:O	50:DZ:56:VAL:HG23	2.14	0.48
1:AA:1238:A:N3	1:AA:1241:G:HI'	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1288:A:H2'	1:AA:1289:A:O4'	2.13	0.48
1:AA:201:G:H2'	1:AA:202:G:C8	2.49	0.48
1:AA:20:U:H2'	1:AA:21:G:H5'	1.95	0.48
1:AA:94:G:N1	1:AA:98:A:C2	2.82	0.48
2:AB:30:ILE:CD1	2:AB:38:HIS:HB2	2.44	0.48
2:AB:53:LEU:N	2:AB:53:LEU:CD2	2.77	0.48
4:AD:162:GLU:HA	4:AD:166:LYS:CD	2.44	0.48
4:AD:171:GLU:HG2	4:AD:182:LYS:NZ	2.29	0.48
5:AE:115:GLU:CD	5:AE:115:GLU:C	2.73	0.48
5:AE:137:ARG:O	5:AE:138:ALA:C	2.50	0.48
5:AE:150:GLU:O	5:AE:153:ALA:N	2.47	0.48
7:AG:99:ALA:O	7:AG:100:MET:C	2.51	0.48
8:AH:15:ASN:O	8:AH:16:GLY:C	2.52	0.48
9:AI:129:ARG:HB3	9:AI:129:ARG:CZ	2.44	0.48
9:AI:22:PRO:HA	9:AI:60:LEU:HB3	1.96	0.48
14:AN:22:LYS:O	14:AN:23:ARG:C	2.52	0.48
15:AO:45:HIS:C	15:AO:47:LYS:H	2.17	0.48
16:AP:42:ILE:O	16:AP:44:SER:N	2.46	0.48
19:AS:11:ASP:OD1	19:AS:36:ARG:HD2	2.13	0.48
24:AY:157:SER:O	24:AY:160:ASP:N	2.47	0.48
1:BA:1397:C:H3'	1:BA:1398:A:H5''	1.94	0.48
1:BA:184:G:O2'	1:BA:185:U:H5'	2.12	0.48
1:BA:211:G:H2'	1:BA:211:G:N3	2.28	0.48
4:BD:90:LEU:HD11	4:BD:196:GLU:HG3	1.96	0.48
9:BI:62:LEU:HD23	9:BI:62:LEU:H	1.78	0.48
9:BI:62:LEU:HD23	9:BI:62:LEU:N	2.29	0.48
10:BJ:8:ILE:HD13	10:BJ:25:ILE:HD11	1.96	0.48
1:BA:778:G:O2'	11:BK:120:CYS:HB3	2.14	0.48
15:BO:73:ASP:HB3	15:BO:76:ARG:HG3	1.94	0.48
15:BO:70:LYS:HD2	15:BO:77:TYR:CZ	2.49	0.48
16:BP:44:SER:HG	16:BP:46:LYS:HG2	1.79	0.48
18:BR:48:ALA:O	18:BR:51:GLN:HB3	2.13	0.48
21:BU:10:PRO:O	21:BU:11:PHE:CB	2.61	0.48
25:CA:1532:A:H3'	25:CA:1533:C:H6	1.79	0.48
25:CA:1665:A:N3	35:CK:1:MET:CE	2.76	0.48
25:CA:1716:U:C2'	25:CA:1717:A:H5'	2.44	0.48
25:CA:1734:G:C5	25:CA:1735:A:N7	2.82	0.48
25:CA:1925:C:C5'	25:CA:1926:U:C5	2.97	0.48
25:CA:2415:G:H2'	25:CA:2416:C:O5'	2.14	0.48
25:CA:2552:U:C2	25:CA:2554:U:H5'	2.49	0.48
27:CC:181:ARG:HG2	27:CC:181:ARG:HH21	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:189:THR:HB	29:CE:192:ALA:HB2	1.94	0.48
38:CN:48:VAL:CG1	38:CN:49:GLU:N	2.74	0.48
40:CP:52:ARG:O	40:CP:53:GLY:C	2.50	0.48
42:CR:49:ILE:HB	42:CR:51:VAL:O	2.13	0.48
48:CX:40:GLU:O	48:CX:42:GLU:N	2.46	0.48
52:D1:24:LYS:CG	52:D1:25:ASN:N	2.75	0.48
25:DA:1240:U:HO2'	25:DA:1241:A:P	2.37	0.48
25:DA:1525:A:C4	25:DA:1526:C:C6	3.02	0.48
25:DA:1676:A:N1	25:DA:1677:A:N3	2.61	0.48
25:DA:1708:C:C2'	25:DA:1709:U:H5'	2.43	0.48
25:DA:1709:U:H2'	25:DA:1710:G:O5'	2.13	0.48
25:DA:1754:A:N6	25:DA:1755:A:N6	2.62	0.48
25:DA:1663:G:C6	25:DA:1992:G:C8	3.02	0.48
25:DA:2013:A:H2'	25:DA:2014:A:O5'	2.14	0.48
25:DA:205:G:O2'	25:DA:206:U:OP2	2.29	0.48
25:DA:2118:U:C4	25:DA:2149:U:H1'	2.48	0.48
25:DA:2162:G:H4'	25:DA:2171:A:H2'	1.95	0.48
25:DA:2422:C:C4	25:DA:2424:C:N4	2.81	0.48
25:DA:2662:A:H2'	25:DA:2663:G:O4'	2.14	0.48
25:DA:2730:C:H2'	25:DA:2731:G:O5'	2.14	0.48
25:DA:548:G:H4'	25:DA:549:G:N1	2.28	0.48
25:DA:71:A:N3	25:DA:71:A:H2'	2.29	0.48
25:DA:732:C:H2'	25:DA:733:G:H5'	1.96	0.48
25:DA:863:A:N7	60:DA:3733:HOH:O	2.35	0.48
25:DA:898:C:H2'	25:DA:899:A:C5'	2.44	0.48
25:DA:911:A:O5'	25:DA:911:A:H8	1.96	0.48
56:DB:63:C:H2'	56:DB:64:G:O5'	2.13	0.48
56:DB:78:A:H2'	56:DB:79:G:O4'	2.13	0.48
56:DB:81:G:C5	56:DB:82:U:C5	3.02	0.48
28:DD:14:ILE:HA	40:DP:11:GLN:HE22	1.77	0.48
28:DD:172:VAL:CG2	28:DD:194:PRO:CD	2.90	0.48
31:DG:140:ILE:HA	31:DG:143:VAL:HG23	1.96	0.48
31:DG:59:ASP:O	31:DG:60:GLY:C	2.52	0.48
33:DI:72:THR:HB	33:DI:73:PRO:CD	2.43	0.48
33:DI:73:PRO:HB2	33:DI:74:PRO:HD2	1.95	0.48
34:DJ:104:ALA:O	34:DJ:108:MET:HG3	2.14	0.48
36:DL:8:PRO:O	36:DL:9:ALA:O	2.32	0.48
38:DN:32:GLU:CB	38:DN:115:LEU:HD12	2.44	0.48
38:DN:51:LEU:HD11	38:DN:70:THR:HG22	1.94	0.48
42:DR:35:PHE:O	42:DR:58:VAL:HA	2.14	0.48
43:DS:34:ASP:O	43:DS:35:ILE:C	2.52	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DU:4:ILE:HG22	45:DU:5:ARG:N	2.29	0.48
46:DV:38:LEU:HB3	46:DV:40:ILE:CD1	2.43	0.48
1:AA:108:G:H5'	1:AA:109:A:H2	1.78	0.48
1:AA:1160:G:O2'	1:AA:1161:C:P	2.72	0.48
1:AA:951:G:C5	1:AA:1231:G:C6	3.01	0.48
1:AA:949:A:C4	1:AA:1233:G:N2	2.82	0.48
1:AA:1304:G:C6	1:AA:1305:G:N2	2.82	0.48
1:AA:1413:A:C6	1:AA:1414:U:C5	3.02	0.48
1:AA:157:U:H1'	1:AA:165:G:N2	2.29	0.48
1:AA:258:G:C6	1:AA:259:G:C5	3.01	0.48
1:AA:55:A:H2'	1:AA:56:U:O4'	2.14	0.48
1:AA:572:A:C5'	1:AA:573:A:OP2	2.62	0.48
1:AA:643:C:C2'	1:AA:644:U:H5'	2.44	0.48
1:AA:706:A:H2'	1:AA:707:U:H5'	1.95	0.48
1:AA:949:A:C5	1:AA:950:U:C5	3.02	0.48
2:AB:206:ILE:O	2:AB:210:THR:HG23	2.14	0.48
2:AB:53:LEU:CD1	2:AB:216:VAL:HG13	2.43	0.48
3:AC:158:GLY:HA2	3:AC:192:TYR:CD1	2.49	0.48
4:AD:167:PRO:HB2	4:AD:170:LEU:HD11	1.95	0.48
4:AD:22:SER:O	4:AD:23:GLY:C	2.52	0.48
5:AE:110:MET:HA	5:AE:113:VAL:HG13	1.95	0.48
10:AJ:6:ILE:HD13	10:AJ:76:ILE:HB	1.96	0.48
14:AN:61:ARG:HG2	14:AN:70:PRO:HB3	1.95	0.48
15:AO:5:GLU:HG2	15:AO:6:ALA:N	2.29	0.48
16:AP:53:ASP:O	16:AP:57:ILE:HG13	2.14	0.48
21:AU:36:PHE:O	21:AU:37:TYR:CB	2.61	0.48
22:AV:64:A:C6	22:AV:65:G:N7	2.82	0.48
24:AY:122:ALA:O	24:AY:125:ALA:HB3	2.13	0.48
1:BA:1313:U:C2	1:BA:1314:C:C6	3.02	0.48
1:BA:1360:A:C1'	14:BN:58:SER:HG	2.27	0.48
1:BA:1534:A:H5''	1:BA:1535:C:OP1	2.12	0.48
1:BA:162:A:H5''	1:BA:163:C:OP2	2.12	0.48
1:BA:275:G:C2	1:BA:276:G:C8	3.02	0.48
1:BA:728:A:C6	1:BA:729:A:N6	2.82	0.48
2:BB:61:SER:O	2:BB:63:LYS:N	2.47	0.48
4:BD:173:ASP:HB3	4:BD:178:GLU:O	2.13	0.48
5:BE:115:GLU:O	5:BE:118:GLY:HA2	2.14	0.48
5:BE:122:VAL:HG23	5:BE:122:VAL:O	2.14	0.48
7:BG:105:GLU:O	7:BG:108:ARG:HB2	2.13	0.48
9:BI:33:SER:HB3	9:BI:36:GLN:HB2	1.95	0.48
11:BK:111:ASP:HB3	21:BU:3:ILE:CG2	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:58:THR:HB	11:BK:59:PRO:HD2	1.96	0.48
11:BK:85:VAL:CG1	11:BK:92:ARG:NH1	2.77	0.48
13:BM:15:VAL:CG1	13:BM:40:GLU:HA	2.44	0.48
1:BA:980:C:H4'	14:BN:59:ARG:HH12	1.79	0.48
22:BV:65:G:H2'	22:BV:66:U:C6	2.49	0.48
31:CG:169:ARG:HH12	55:C4:29:ALA:HA	1.78	0.48
25:CA:1057:A:N6	25:CA:1086:A:O3'	2.47	0.48
25:CA:1319:C:C2'	25:CA:1320:C:H5'	2.44	0.48
25:CA:141:G:H5''	25:CA:142:A:N7	2.29	0.48
25:CA:183:C:C2'	25:CA:184:C:H5'	2.42	0.48
25:CA:1979:U:C2'	25:CA:1980:G:H5'	2.44	0.48
25:CA:1:G:H8	25:CA:1:G:OP2	1.97	0.48
25:CA:2105:U:O4	25:CA:2184:A:N1	2.47	0.48
25:CA:2161:C:O2	25:CA:2162:G:H8	1.96	0.48
25:CA:225:C:C2'	25:CA:226:A:H5'	2.44	0.48
25:CA:2547:A:H2'	25:CA:2548:U:C6	2.49	0.48
25:CA:2032:G:N1	25:CA:2572:A:C8	2.82	0.48
25:CA:2751:G:N3	25:CA:2751:G:H2'	2.29	0.48
25:CA:883:G:N2	25:CA:894:U:H1'	2.29	0.48
27:CC:121:ALA:O	27:CC:122:ALA:C	2.50	0.48
27:CC:170:TYR:CD2	27:CC:184:GLU:CA	2.96	0.48
27:CC:90:ILE:HD12	27:CC:102:TYR:CD1	2.49	0.48
29:CE:192:ALA:O	29:CE:193:VAL:C	2.52	0.48
30:CF:30:VAL:CG2	30:CF:30:VAL:O	2.62	0.48
30:CF:71:LYS:HE2	30:CF:71:LYS:HA	1.96	0.48
33:CI:57:VAL:HG23	33:CI:71:LYS:HZ3	1.78	0.48
38:CN:78:LYS:HG2	38:CN:78:LYS:O	2.13	0.48
39:CO:76:LYS:O	39:CO:77:ALA:C	2.52	0.48
45:CU:70:ALA:HB3	45:CU:79:ALA:HB1	1.95	0.48
54:D3:39:ARG:O	54:D3:43:LEU:HD12	2.14	0.48
25:DA:1372:U:H2'	25:DA:1373:A:C5'	2.44	0.48
25:DA:157:C:H3'	25:DA:157:C:H6	1.79	0.48
25:DA:217:A:H2'	25:DA:218:A:O4'	2.14	0.48
25:DA:2482:A:H2'	25:DA:2483:C:C6	2.48	0.48
25:DA:2712:C:OP1	25:DA:2714:G:H4'	2.14	0.48
25:DA:2729:G:H2'	25:DA:2730:C:C6	2.48	0.48
25:DA:528:A:N1	25:DA:2043:C:H5'	2.29	0.48
25:DA:587:C:OP2	36:DL:21:ARG:NH1	2.47	0.48
25:DA:631:A:N3	25:DA:2415:G:O2'	2.39	0.48
25:DA:778:G:C5	25:DA:779:U:C4	3.02	0.48
56:DB:102:G:C8	56:DB:102:G:O5'	2.64	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DF:42:ALA:O	30:DF:46:LYS:HD2	2.14	0.48
31:DG:143:VAL:O	31:DG:144:ALA:C	2.53	0.48
33:DI:112:LYS:HE2	33:DI:116:MET:HE3	1.95	0.48
33:DI:79:LEU:O	33:DI:83:ALA:HB3	2.14	0.48
36:DL:23:ILE:HD13	42:DR:84:ARG:HG2	1.95	0.48
25:DA:446:G:OP1	41:DQ:2:ARG:CD	2.62	0.48
1:AA:1306:A:C5	1:AA:1307:U:C5	3.01	0.47
1:AA:16:A:C2'	1:AA:17:U:H5'	2.44	0.47
1:AA:413:G:N1	4:AD:32:LYS:HD2	2.29	0.47
1:AA:452:A:H3'	1:AA:452:A:H8	1.77	0.47
1:AA:503:C:H6	1:AA:503:C:O5'	1.97	0.47
1:AA:745:G:O2'	1:AA:746:A:H5'	2.14	0.47
1:AA:244:U:O2	1:AA:894:G:H1'	2.13	0.47
1:AA:921:U:H2'	1:AA:922:G:O4'	2.14	0.47
2:AB:110:ILE:CD1	2:AB:150:ILE:HG12	2.43	0.47
3:AC:10:ARG:O	3:AC:12:GLY:N	2.46	0.47
4:AD:160:LEU:N	4:AD:160:LEU:HD22	2.29	0.47
10:AJ:40:ILE:HB	10:AJ:73:LEU:CB	2.44	0.47
12:AL:105:GLY:HA3	12:AL:117:GLY:O	2.14	0.47
16:AP:72:ALA:HA	16:AP:75:ILE:HD11	1.95	0.47
1:BA:340:U:C2	1:BA:350:G:N2	2.82	0.47
1:BA:49:U:C4	1:BA:364:A:C6	3.02	0.47
1:BA:452:A:C8	1:BA:452:A:H3'	2.49	0.47
1:BA:681:A:C6	1:BA:710:G:C6	3.02	0.47
1:BA:81:A:H2'	1:BA:82:G:H8	1.79	0.47
1:BA:857:C:H2'	1:BA:858:G:O5'	2.14	0.47
2:BB:44:LYS:O	2:BB:48:MET:HB2	2.14	0.47
2:BB:86:CYS:H	2:BB:88:GLN:NE2	2.12	0.47
3:BC:76:ILE:HA	3:BC:83:VAL:HG21	1.96	0.47
5:BE:110:MET:O	5:BE:114:LEU:HB2	2.14	0.47
7:BG:131:GLY:CA	7:BG:134:VAL:HG13	2.44	0.47
8:BH:105:THR:HG21	8:BH:115:ALA:HB2	1.96	0.47
1:BA:684:U:O2'	11:BK:39:ASN:O	2.24	0.47
13:BM:33:LEU:HD23	13:BM:33:LEU:N	2.29	0.47
14:BN:35:ALA:HB3	14:BN:41:ARG:HD3	1.96	0.47
17:BQ:5:ARG:HB2	17:BQ:5:ARG:HH11	1.78	0.47
19:BS:32:THR:HB	19:BS:34:SER:H	1.78	0.47
53:C2:23:ALA:C	53:C2:24:THR:CG2	2.82	0.47
25:CA:1314:C:O2	25:CA:1314:C:C2'	2.61	0.47
25:CA:1871:A:N7	25:CA:1872:A:N1	2.61	0.47
25:CA:1894:C:H2'	25:CA:1895:C:H6	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2141:G:C2'	25:CA:2142:A:H5'	2.44	0.47
25:CA:2145:C:C6	25:CA:2145:C:H3'	2.49	0.47
25:CA:2136:G:H1	25:CA:2155:U:H3	1.61	0.47
25:CA:2196:C:C2'	25:CA:2197:U:H5'	2.43	0.47
25:CA:220:G:H1'	25:CA:234:U:H1'	1.95	0.47
25:CA:2472:G:H2'	25:CA:2475:C:H42	1.79	0.47
25:CA:359:G:C6	25:CA:360:U:C6	3.01	0.47
25:CA:565:C:H4'	25:CA:1253:A:N6	2.29	0.47
27:CC:100:ARG:NH1	27:CC:100:ARG:HG3	2.28	0.47
27:CC:159:THR:N	27:CC:194:VAL:CG1	2.77	0.47
32:CH:66:ASN:CG	32:CH:138:VAL:HG21	2.34	0.47
32:CH:80:ILE:CD1	32:CH:144:VAL:CG1	2.92	0.47
33:CI:41:PHE:CE2	33:CI:42:ASN:OD1	2.67	0.47
34:CJ:33:ALA:HB2	34:CJ:105:VAL:HG13	1.95	0.47
35:CK:47:ILE:HB	35:CK:48:PRO:HD3	1.96	0.47
25:CA:2469:A:H4'	37:CM:55:ARG:HH22	1.78	0.47
39:CO:16:ARG:O	39:CO:20:GLU:HG3	2.14	0.47
43:CS:66:ILE:HA	43:CS:69:LEU:CD2	2.44	0.47
45:CU:97:SER:O	45:CU:98:ASN:HB3	2.14	0.47
25:DA:2016:U:H1'	51:D0:2:VAL:HG21	1.95	0.47
25:DA:1161:C:H1'	42:DR:8:GLY:O	2.13	0.47
25:DA:1231:U:H2'	25:DA:1232:G:H8	1.79	0.47
25:DA:1268:A:H2'	25:DA:1269:A:O5'	2.14	0.47
25:DA:1475:G:O2'	25:DA:1476:U:OP1	2.25	0.47
25:DA:1527:G:H5''	25:DA:1528:A:OP1	2.14	0.47
25:DA:2091:C:C3'	25:DA:2092:U:H5''	2.43	0.47
25:DA:2472:G:N2	25:DA:2529:G:N1	2.61	0.47
25:DA:2746:U:C4	25:DA:2747:G:C8	3.01	0.47
25:DA:2857:G:N2	25:DA:2859:G:C8	2.82	0.47
25:DA:2870:C:C4	25:DA:2871:U:C5	3.02	0.47
25:DA:362:A:C2	25:DA:363:G:C8	3.02	0.47
25:DA:417:C:H2'	25:DA:418:C:H6	1.79	0.47
25:DA:447:A:C6	25:DA:454:A:C8	3.01	0.47
25:DA:548:G:O2'	25:DA:549:G:C6	2.61	0.47
25:DA:59:U:H2'	25:DA:60:G:O5'	2.14	0.47
25:DA:616:A:C2'	25:DA:617:G:C5'	2.91	0.47
25:DA:643:A:H3'	25:DA:644:A:H8	1.78	0.47
25:DA:66:C:H2'	25:DA:67:U:H6	1.80	0.47
56:DB:4:C:H2'	56:DB:5:U:H6	1.78	0.47
56:DB:91:C:H2'	56:DB:92:C:H6	1.79	0.47
25:DA:1789:A:OP2	27:DC:220:ARG:NH1	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:236:GLY:O	27:DC:237:ARG:CG	2.62	0.47
30:DF:97:GLU:O	30:DF:100:GLU:HB3	2.14	0.47
33:DI:89:SER:HB3	33:DI:92:PRO:CG	2.44	0.47
35:DK:99:ILE:N	35:DK:99:ILE:HD12	2.29	0.47
37:DM:21:ALA:HA	37:DM:97:GLN:HE21	1.79	0.47
41:DQ:90:ASP:OD2	41:DQ:90:ASP:C	2.51	0.47
49:DY:12:GLU:CA	49:DY:12:GLU:OE1	2.61	0.47
50:DZ:20:LYS:O	50:DZ:23:LEU:HB2	2.14	0.47
1:AA:1007:U:C2'	1:AA:1008:U:H5'	2.45	0.47
1:AA:1215:G:C2	1:AA:1216:A:C8	3.02	0.47
1:AA:1259:C:N4	1:AA:1260:G:C4	2.82	0.47
1:AA:1519:A:C8	1:AA:1520:C:H1'	2.49	0.47
1:AA:212:G:H2'	1:AA:213:G:C8	2.48	0.47
1:AA:335:C:O2'	1:AA:336:A:H5'	2.14	0.47
1:AA:430:A:OP2	4:AD:7:LYS:HG2	2.15	0.47
1:AA:623:C:H2'	1:AA:624:C:H5'	1.96	0.47
1:AA:656:G:C4	1:AA:657:U:C6	3.01	0.47
1:AA:710:G:H5''	6:AF:53:LYS:NZ	2.29	0.47
1:AA:748:G:H2'	1:AA:749:A:H8	1.79	0.47
1:AA:806:C:O2	1:AA:807:A:C8	2.67	0.47
1:AA:872:A:N7	1:AA:874:G:C8	2.83	0.47
2:AB:145:ASN:O	2:AB:146:SER:CB	2.61	0.47
2:AB:14:HIS:O	2:AB:15:PHE:C	2.52	0.47
2:AB:183:PHE:CE2	2:AB:197:PHE:CD2	3.02	0.47
2:AB:68:PHE:HE2	2:AB:88:GLN:CB	2.27	0.47
3:AC:141:MET:HE3	3:AC:145:ALA:O	2.14	0.47
3:AC:166:TRP:O	3:AC:166:TRP:HE3	1.98	0.47
3:AC:171:ARG:C	3:AC:172:VAL:CG2	2.82	0.47
4:AD:167:PRO:CB	4:AD:170:LEU:HD11	2.44	0.47
4:AD:97:LEU:CD2	4:AD:117:VAL:HG11	2.44	0.47
5:AE:115:GLU:OE1	5:AE:116:VAL:HG12	2.15	0.47
5:AE:56:PRO:O	5:AE:60:GLN:HB2	2.14	0.47
5:AE:81:GLN:NE2	5:AE:149:PRO:CD	2.77	0.47
10:AJ:25:ILE:HG22	10:AJ:26:VAL:N	2.28	0.47
10:AJ:42:LEU:HD23	10:AJ:43:PRO:HD2	1.94	0.47
10:AJ:59:LYS:N	10:AJ:59:LYS:NZ	2.62	0.47
10:AJ:63:ASP:OD2	14:AN:98:LYS:HD2	2.14	0.47
18:AR:48:ALA:O	18:AR:49:LYS:C	2.52	0.47
11:AK:125:LYS:C	21:AU:33:ARG:NH2	2.67	0.47
23:AX:5:A:H5'	23:AX:6:G:OP2	2.15	0.47
1:BA:1014:A:N7	1:BA:1015:G:C5	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1036:A:H5'	1:BA:1037:C:P	2.54	0.47
1:BA:1237:C:C6	1:BA:1336:C:C4	3.03	0.47
1:BA:1477:U:H2'	1:BA:1478:U:C6	2.49	0.47
1:BA:166:U:C2'	1:BA:167:A:H5'	2.43	0.47
1:BA:342:C:C4	1:BA:348:G:N1	2.82	0.47
1:BA:957:U:O2	1:BA:959:A:H8	1.96	0.47
3:BC:10:ARG:HH21	3:BC:181:ILE:HG13	1.79	0.47
4:BD:152:SER:O	4:BD:153:ARG:C	2.53	0.47
4:BD:35:GLN:O	4:BD:36:ALA:CB	2.62	0.47
5:BE:99:SER:O	5:BE:100:GLU:C	2.52	0.47
6:BF:5:GLU:O	6:BF:89:VAL:HA	2.13	0.47
9:BI:67:LYS:HD3	9:BI:67:LYS:N	2.28	0.47
11:BK:15:VAL:HG12	11:BK:76:TYR:HB3	1.96	0.47
11:BK:76:TYR:O	11:BK:77:GLY:C	2.53	0.47
17:BQ:54:ILE:O	17:BQ:54:ILE:HD13	2.13	0.47
18:BR:28:LEU:O	18:BR:30:ASN:N	2.47	0.47
1:BA:186:C:H4'	20:BT:75:LYS:HG3	1.96	0.47
52:C1:44:GLN:HA	52:C1:44:GLN:OE1	2.15	0.47
25:CA:1098:A:C5	25:CA:1099:G:C6	3.02	0.47
25:CA:769:U:HO2'	25:CA:1379:U:H6	1.60	0.47
25:CA:152:A:C2	25:CA:175:G:C2	3.02	0.47
25:CA:1924:C:H3'	25:CA:1925:C:C5'	2.44	0.47
25:CA:2221:G:H2'	25:CA:2222:C:H5'	1.95	0.47
25:CA:2371:G:N2	25:CA:2372:U:H1'	2.28	0.47
25:CA:277:G:H2'	25:CA:278:A:OP2	2.14	0.47
27:CC:128:THR:C	27:CC:129:LEU:HD23	2.34	0.47
25:CA:1820:U:O2	27:CC:200:MET:HB3	2.14	0.47
30:CF:23:SER:O	30:CF:25:MET:N	2.47	0.47
32:CH:1:MET:SD	32:CH:3:VAL:CG1	3.02	0.47
33:CI:17:ALA:CB	33:CI:41:PHE:CE2	2.97	0.47
34:CJ:58:ASN:N	34:CJ:127:GLY:O	2.45	0.47
29:CE:29:HIS:CE1	36:CL:8:PRO:HD3	2.48	0.47
40:CP:102:ARG:HD2	40:CP:106:ALA:O	2.15	0.47
41:CQ:40:LYS:C	41:CQ:42:GLY:N	2.59	0.47
43:CS:35:ILE:O	43:CS:36:LEU:C	2.51	0.47
45:CU:37:GLY:O	45:CU:38:ILE:HD13	2.15	0.47
25:DA:1225:G:H2'	25:DA:1226:A:C8	2.49	0.47
25:DA:1414:C:N3	25:DA:1415:U:H5	2.12	0.47
25:DA:1458:U:H5'	25:DA:1459:G:N3	2.28	0.47
25:DA:1647:U:H3'	25:DA:1647:U:P	2.54	0.47
25:DA:1883:U:O4	25:DA:1884:G:C6	2.67	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1929:G:H4'	25:DA:1930:G:OP1	2.13	0.47
25:DA:2286:G:H5'	25:DA:2287:A:O4'	2.14	0.47
25:DA:2297:A:N3	25:DA:2298:A:C8	2.82	0.47
25:DA:2303:G:H2'	25:DA:2304:G:C5'	2.44	0.47
25:DA:280:U:H2'	25:DA:281:C:C6	2.50	0.47
25:DA:2891:U:O2'	25:DA:2892:G:H5'	2.14	0.47
25:DA:3:U:H2'	25:DA:4:U:O4'	2.14	0.47
56:DB:73:A:C4	56:DB:104:A:C2	3.03	0.47
27:DC:230:PRO:C	27:DC:231:HIS:O	2.49	0.47
27:DC:34:GLU:O	27:DC:35:LYS:C	2.53	0.47
29:DE:15:SER:N	29:DE:197:GLU:OE2	2.47	0.47
29:DE:45:ALA:HB1	29:DE:87:ALA:O	2.14	0.47
30:DF:39:VAL:CG1	30:DF:40:GLY:N	2.77	0.47
40:DP:88:ARG:CD	40:DP:112:ARG:NH2	2.77	0.47
40:DP:6:GLN:HE21	40:DP:6:GLN:C	2.18	0.47
1:AA:1103:C:C2'	1:AA:1104:G:O5'	2.62	0.47
1:AA:1124:G:C2	1:AA:1150:A:C2	3.03	0.47
1:AA:1285:A:H4'	1:AA:1286:U:C4	2.50	0.47
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.44	0.47
1:AA:143:A:H5'	1:AA:144:G:O5'	2.15	0.47
1:AA:173:U:C6	1:AA:197:A:C2	3.01	0.47
1:AA:277:C:H2'	1:AA:278:G:C5'	2.44	0.47
1:AA:160:A:H1'	1:AA:344:A:N7	2.29	0.47
1:AA:373:A:H2'	1:AA:374:A:H8	1.79	0.47
1:AA:427:U:H3'	1:AA:428:G:H2'	1.96	0.47
1:AA:656:G:C4	1:AA:657:U:C5	3.02	0.47
1:AA:735:C:H2'	1:AA:736:C:H6	1.78	0.47
1:AA:859:G:C2'	1:AA:860:A:O5'	2.62	0.47
1:AA:872:A:C5	1:AA:874:G:C8	3.03	0.47
1:AA:923:A:H2'	1:AA:924:C:O4'	2.15	0.47
2:AB:26:MET:CE	2:AB:29:PHE:CD2	2.97	0.47
2:AB:49:PHE:CB	2:AB:212:TYR:OH	2.62	0.47
2:AB:84:LEU:O	2:AB:88:GLN:O	2.33	0.47
3:AC:69:THR:O	3:AC:104:GLU:HA	2.14	0.47
4:AD:134:TYR:C	4:AD:134:TYR:CD2	2.88	0.47
6:AF:71:ILE:HG23	6:AF:72:ASP:H	1.79	0.47
10:AJ:59:LYS:CD	10:AJ:59:LYS:C	2.82	0.47
11:AK:52:ARG:O	11:AK:55:ARG:HB2	2.14	0.47
11:AK:46:ALA:HA	11:AK:65:ALA:HB2	1.96	0.47
13:AM:18:LEU:HD12	13:AM:32:ILE:HG21	1.96	0.47
13:AM:40:GLU:CG	13:AM:41:ASP:H	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:44:ILE:HG22	13:AM:44:ILE:O	2.15	0.47
17:AQ:12:VAL:HG12	17:AQ:21:VAL:HG13	1.96	0.47
19:AS:39:ILE:CD1	19:AS:70:LEU:CD2	2.92	0.47
11:AK:109:ILE:HG22	21:AU:16:ARG:HE	1.79	0.47
22:AV:12:U:C2'	22:AV:13:C:O5'	2.63	0.47
1:BA:1049:U:C4'	1:BA:1050:G:OP2	2.62	0.47
1:BA:144:G:H2'	1:BA:145:G:O5'	2.14	0.47
1:BA:1501:C:OP1	1:BA:1508:A:H4'	2.13	0.47
1:BA:381:C:C4	1:BA:382:A:C5	3.03	0.47
1:BA:753:A:H4'	1:BA:754:C:O2	2.14	0.47
1:BA:82:G:N7	1:BA:83:C:C4	2.82	0.47
1:BA:840:C:O2	1:BA:847:G:C2	2.67	0.47
1:BA:985:C:H2'	1:BA:985:C:O2	2.13	0.47
3:BC:133:MET:HE1	3:BC:167:TYR:HB2	1.95	0.47
3:BC:49:ALA:O	3:BC:71:ARG:HB2	2.14	0.47
4:BD:123:MET:HE2	4:BD:145:ARG:HD2	1.96	0.47
4:BD:58:GLN:HA	4:BD:58:GLN:OE1	2.14	0.47
5:BE:95:MET:HE1	5:BE:114:LEU:HD21	1.93	0.47
5:BE:37:VAL:CG1	5:BE:38:VAL:N	2.77	0.47
6:BF:53:LYS:O	6:BF:54:LEU:HB2	2.15	0.47
8:BH:82:LEU:HD11	8:BH:84:ILE:HD11	1.95	0.47
12:BL:2:THR:N	12:BL:5:GLN:HG3	2.29	0.47
25:CA:1106:G:C4	25:CA:1107:G:C8	3.01	0.47
25:CA:1249:U:H4'	41:CQ:3:VAL:HG11	1.96	0.47
25:CA:1281:G:C2	25:CA:1290:C:C2	3.02	0.47
25:CA:1922:G:N7	25:CA:1923:U:C5	2.82	0.47
24:AY:130:ARG:HD3	25:CA:1942:C:O2	2.15	0.47
25:CA:2128:G:H2'	25:CA:2129:C:C6	2.49	0.47
25:CA:2211:A:O2'	25:CA:2212:A:P	2.72	0.47
25:CA:2516:A:C6	25:CA:2517:C:N4	2.82	0.47
25:CA:359:G:C5	25:CA:360:U:C6	3.02	0.47
26:CB:35:C:H2'	26:CB:36:C:O4'	2.14	0.47
28:CD:205:PRO:O	28:CD:206:ALA:C	2.52	0.47
29:CE:145:ASP:HA	29:CE:166:LYS:O	2.15	0.47
33:CI:115:ASP:O	33:CI:116:MET:CG	2.63	0.47
25:CA:587:C:N3	36:CL:33:ARG:NH2	2.61	0.47
41:CQ:107:ALA:HB1	42:CR:48:LYS:HZ2	1.78	0.47
42:CR:68:ARG:HG2	42:CR:92:TRP:CE3	2.49	0.47
25:DA:2344:U:P	52:D1:36:LYS:HD2	2.55	0.47
25:DA:1581:G:O2'	25:DA:1582:C:O5'	2.31	0.47
25:DA:1606:C:C2'	25:DA:1607:C:OP2	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1678:A:H2'	25:DA:1679:A:H5'	1.95	0.47
25:DA:207:A:H2'	25:DA:208:C:O4'	2.13	0.47
25:DA:2214:C:H2'	25:DA:2215:C:O4'	2.15	0.47
25:DA:2294:G:O2'	25:DA:2295:C:H5'	2.14	0.47
25:DA:2491:U:C5'	25:DA:2570:G:C5'	2.92	0.47
25:DA:2591:C:H2'	25:DA:2592:G:H8	1.79	0.47
25:DA:2748:A:C5	25:DA:2749:A:C8	3.02	0.47
25:DA:528:A:N1	25:DA:2043:C:C5'	2.77	0.47
25:DA:818:G:H2'	25:DA:819:A:H5''	1.95	0.47
29:DE:40:ARG:NH2	29:DE:92:HIS:CE1	2.82	0.47
31:DG:95:ALA:CB	31:DG:104:LEU:HD23	2.44	0.47
33:DI:32:VAL:HG11	33:DI:37:PHE:CE2	2.49	0.47
36:DL:112:LEU:HD13	36:DL:130:GLY:O	2.15	0.47
39:DO:67:ASN:C	39:DO:69:ASP:H	2.16	0.47
40:DP:28:LYS:HB3	40:DP:39:LEU:HD21	1.96	0.47
43:DS:36:LEU:CD1	43:DS:48:LYS:HA	2.43	0.47
48:DX:39:VAL:O	48:DX:39:VAL:HG23	2.14	0.47
49:DY:7:ARG:O	49:DY:7:ARG:HG3	2.14	0.47
1:AA:1020:G:H2'	1:AA:1020:G:N3	2.28	0.47
1:AA:1367:C:C2	1:AA:1368:A:C8	3.03	0.47
1:AA:1397:C:H3'	1:AA:1398:A:H5''	1.95	0.47
1:AA:66:A:H2'	1:AA:66:A:N3	2.30	0.47
1:AA:69:G:H2'	1:AA:70:U:C6	2.49	0.47
1:AA:744:C:H2'	1:AA:745:G:H8	1.76	0.47
1:AA:79:G:H2'	1:AA:80:A:O4'	2.15	0.47
2:AB:142:LYS:O	2:AB:145:ASN:OD1	2.32	0.47
3:AC:13:ILE:HG12	3:AC:13:ILE:O	2.14	0.47
3:AC:154:GLY:HA2	3:AC:163:ARG:N	2.29	0.47
4:AD:18:LEU:C	4:AD:19:PHE:CG	2.87	0.47
7:AG:149:ALA:CB	11:AK:55:ARG:HH22	2.28	0.47
5:AE:152:VAL:CG1	8:AH:98:LEU:HD13	2.43	0.47
10:AJ:5:ARG:HG2	10:AJ:79:PRO:CG	2.43	0.47
10:AJ:80:THR:HB	10:AJ:83:THR:CB	2.42	0.47
13:AM:65:GLU:O	13:AM:68:LEU:N	2.48	0.47
14:AN:20:PHE:C	14:AN:22:LYS:N	2.66	0.47
15:AO:45:HIS:O	15:AO:47:LYS:N	2.48	0.47
16:AP:6:LEU:HG	16:AP:17:TYR:CB	2.44	0.47
16:AP:44:SER:OG	16:AP:46:LYS:HG3	2.14	0.47
16:AP:72:ALA:HA	16:AP:75:ILE:HD12	1.97	0.47
20:AT:34:VAL:HG21	20:AT:53:MET:HG2	1.96	0.47
24:AY:29:ARG:HD3	24:AY:110:ARG:HH22	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:155:ARG:NH2	25:CA:2602:A:O2'	2.48	0.47
1:BA:1093:A:C2	1:BA:1095:U:O4'	2.67	0.47
1:BA:1221:G:C5'	19:BS:76:THR:HG21	2.44	0.47
1:BA:247:G:C6	1:BA:278:G:C2	3.02	0.47
1:BA:558:G:H5''	1:BA:559:A:O5'	2.14	0.47
1:BA:652:U:H1'	1:BA:653:U:C6	2.50	0.47
1:BA:806:C:H2'	1:BA:807:A:H8	1.79	0.47
2:BB:66:ILE:HB	2:BB:88:GLN:HB3	1.96	0.47
3:BC:120:THR:CG2	3:BC:121:SER:N	2.78	0.47
3:BC:149:LYS:CB	3:BC:168:ARG:HA	2.44	0.47
3:BC:180:ASP:HB3	3:BC:204:GLY:H	1.79	0.47
3:BC:34:SER:HA	3:BC:37:LYS:HB3	1.97	0.47
4:BD:119:HIS:O	4:BD:120:LYS:HB2	2.14	0.47
4:BD:190:LEU:O	4:BD:191:SER:CB	2.52	0.47
5:BE:15:ILE:O	5:BE:16:ALA:HB2	2.15	0.47
5:BE:80:LEU:N	5:BE:80:LEU:CD1	2.76	0.47
6:BF:8:PHE:CE1	6:BF:60:VAL:HG21	2.49	0.47
6:BF:69:GLU:OE1	6:BF:69:GLU:CA	2.62	0.47
7:BG:106:ALA:CB	7:BG:122:GLU:HG3	2.45	0.47
7:BG:14:ASP:HB3	7:BG:18:GLY:N	2.28	0.47
9:BI:28:VAL:HB	9:BI:63:TYR:CD2	2.48	0.47
9:BI:42:THR:HA	9:BI:44:ARG:NH2	2.29	0.47
9:BI:7:GLY:HA2	9:BI:84:ARG:HB3	1.96	0.47
9:BI:90:ASP:OD2	9:BI:90:ASP:C	2.52	0.47
10:BJ:78:GLU:C	10:BJ:78:GLU:OE1	2.52	0.47
11:BK:76:TYR:HD1	11:BK:76:TYR:N	2.13	0.47
1:BA:554:A:H5'	12:BL:25:ALA:HB1	1.96	0.47
1:BA:1308:U:C5	13:BM:97:ARG:NH2	2.82	0.47
17:BQ:13:SER:OG	17:BQ:16:MET:CE	2.60	0.47
17:BQ:47:ASP:HB2	17:BQ:51:GLU:OE2	2.14	0.47
18:BR:44:THR:OG1	18:BR:46:THR:CG2	2.63	0.47
19:BS:57:VAL:CG1	19:BS:74:ALA:HB2	2.45	0.47
20:BT:34:VAL:CG1	20:BT:78:LEU:CD1	2.92	0.47
25:CA:1234:U:O5'	25:CA:1234:U:H6	1.97	0.47
25:CA:1519:G:C4	25:CA:1520:U:C5	3.02	0.47
25:CA:178:G:O2'	25:CA:179:C:H5'	2.14	0.47
25:CA:1880:U:H2'	25:CA:1881:C:C6	2.49	0.47
25:CA:2102:G:C5	25:CA:2103:C:C5	3.02	0.47
25:CA:417:C:H2'	25:CA:418:C:C6	2.48	0.47
25:CA:742:A:H2'	25:CA:743:A:C8	2.49	0.47
27:CC:17:LYS:CE	27:CC:17:LYS:HA	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:55:LYS:HG2	28:CD:56:LYS:H	1.79	0.47
29:CE:4:VAL:C	29:CE:5:LEU:HD12	2.35	0.47
30:CF:105:ILE:CD1	30:CF:138:PRO:HG3	2.44	0.47
33:CI:18:ASN:H	33:CI:19:PRO:HD3	1.79	0.47
37:CM:111:GLU:O	37:CM:111:GLU:OE1	2.31	0.47
41:CQ:23:TYR:HB3	41:CQ:27:ARG:HB3	1.96	0.47
45:CU:15:GLY:O	45:CU:16:LYS:C	2.52	0.47
50:CZ:3:THR:CG2	50:CZ:36:GLU:HB3	2.45	0.47
25:DA:1057:A:N3	25:DA:1057:A:H2'	2.28	0.47
25:DA:1275:A:O2'	25:DA:1645:G:N3	2.47	0.47
25:DA:1477:A:N3	25:DA:1515:A:C6	2.83	0.47
25:DA:1681:G:O2'	25:DA:1762:A:H1'	2.14	0.47
25:DA:2059:A:C2	25:DA:2503:A:C6	3.02	0.47
25:DA:2523:G:C2'	25:DA:2524:G:H5'	2.44	0.47
25:DA:2673:G:H2'	25:DA:2674:G:H8	1.78	0.47
25:DA:2678:C:H2'	25:DA:2679:A:O4'	2.14	0.47
25:DA:2682:A:C2'	25:DA:2683:C:H5'	2.45	0.47
25:DA:2771:C:H2'	25:DA:2772:C:H6	1.79	0.47
25:DA:46:G:C6	25:DA:47:C:N4	2.82	0.47
25:DA:611:C:C5	25:DA:612:G:N7	2.82	0.47
25:DA:690:G:O2'	27:DC:42:ARG:NH2	2.43	0.47
25:DA:989:G:OP2	50:DZ:11:SER:OG	2.26	0.47
56:DB:50:A:OP2	39:DO:67:ASN:HA	2.14	0.47
28:DD:49:GLN:OE1	28:DD:79:LEU:HB3	2.14	0.47
25:DA:38:A:N3	29:DE:43:THR:HB	2.29	0.47
32:DH:21:VAL:HG23	32:DH:25:TYR:CD2	2.48	0.47
38:DN:38:LEU:HB3	38:DN:39:PRO:HD3	1.95	0.47
42:DR:54:VAL:O	42:DR:55:ASP:C	2.53	0.47
45:DU:11:ILE:CG1	45:DU:19:GLY:O	2.62	0.47
46:DV:28:ALA:CB	46:DV:42:LEU:HD21	2.44	0.47
48:DX:1:SER:O	48:DX:3:VAL:HG23	2.14	0.47
1:AA:103:U:O2'	1:AA:104:G:H5'	2.14	0.47
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.50	0.47
1:AA:1322:C:OP1	19:AS:77:ARG:NH2	2.47	0.47
1:AA:147:G:H2'	1:AA:148:G:H8	1.77	0.47
1:AA:158:G:C2'	1:AA:159:G:H5''	2.43	0.47
1:AA:540:G:O2'	1:AA:541:G:H5'	2.14	0.47
1:AA:915:A:H2'	1:AA:916:U:H5'	1.96	0.47
1:AA:987:G:C2'	1:AA:988:G:H5'	2.45	0.47
2:AB:9:LEU:HG	2:AB:11:ALA:H	1.78	0.47
2:AB:134:LEU:HA	2:AB:137:THR:OG1	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:220:VAL:O	2:AB:221:ARG:C	2.52	0.47
2:AB:63:LYS:HD3	2:AB:63:LYS:C	2.33	0.47
2:AB:84:LEU:HG	2:AB:85:SER:CA	2.44	0.47
3:AC:6:PRO:O	3:AC:10:ARG:HG3	2.14	0.47
4:AD:123:MET:HG3	4:AD:145:ARG:HG2	1.96	0.47
6:AF:82:ASP:N	6:AF:82:ASP:OD1	2.47	0.47
7:AG:145:GLU:HA	7:AG:148:LYS:HE2	1.96	0.47
8:AH:110:MET:CE	8:AH:115:ALA:HA	2.45	0.47
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.78	0.47
9:AI:43:ALA:C	9:AI:45:MET:H	2.17	0.47
9:AI:48:ARG:O	9:AI:49:GLN:C	2.53	0.47
9:AI:60:LEU:N	9:AI:60:LEU:HD23	2.28	0.47
10:AJ:19:ASP:O	10:AJ:23:ALA:HB2	2.14	0.47
10:AJ:59:LYS:HZ2	10:AJ:60:ASP:H	1.61	0.47
13:AM:53:ASP:CB	13:AM:56:ARG:HE	2.27	0.47
14:AN:34:ASN:O	14:AN:41:ARG:HD3	2.14	0.47
24:AY:107:THR:HG23	24:AY:110:ARG:CG	2.44	0.47
1:BA:1251:A:O2'	1:BA:1252:A:C5'	2.62	0.47
1:BA:1275:A:C5	1:BA:1276:G:N7	2.82	0.47
1:BA:1539:C:C2'	1:BA:1540:U:H5'	2.45	0.47
1:BA:53:A:C2	1:BA:359:G:C2	3.03	0.47
1:BA:446:G:C2'	1:BA:447:G:O5'	2.63	0.47
1:BA:448:A:H3'	1:BA:449:G:H8	1.78	0.47
1:BA:468:A:H2'	1:BA:469:C:C5'	2.44	0.47
1:BA:468:A:N3	1:BA:468:A:O4'	2.46	0.47
1:BA:498:A:H8	1:BA:498:A:OP2	1.96	0.47
1:BA:560:A:H4'	1:BA:561:U:H5''	1.96	0.47
1:BA:686:U:C2	1:BA:687:A:C8	3.01	0.47
1:BA:833:G:C4	1:BA:834:U:C6	3.02	0.47
1:BA:94:G:H5'	1:BA:95:C:H5	1.79	0.47
2:BB:181:PRO:CA	2:BB:196:ASP:OD1	2.61	0.47
2:BB:202:ASN:OD1	2:BB:203:ASP:N	2.47	0.47
3:BC:65:VAL:HG12	3:BC:65:VAL:O	2.13	0.47
4:BD:169:TRP:CG	4:BD:185:PRO:HG3	2.49	0.47
1:BA:9:G:OP2	5:BE:125:LYS:HE2	2.14	0.47
6:BF:51:ILE:HD11	6:BF:85:ILE:HB	1.96	0.47
6:BF:86:ARG:NH1	6:BF:86:ARG:CG	2.70	0.47
7:BG:16:LYS:HD3	7:BG:17:PHE:CE1	2.50	0.47
7:BG:16:LYS:CE	7:BG:17:PHE:CE1	2.98	0.47
7:BG:7:GLY:O	7:BG:8:GLN:CB	2.63	0.47
10:BJ:19:ASP:O	10:BJ:22:THR:HG22	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:81:LEU:N	11:BK:81:LEU:HD23	2.30	0.47
22:BV:32:U:C4	22:BV:33:U:C5	3.02	0.47
25:CA:1199:U:H5''	60:CA:3712:HOH:O	2.15	0.47
25:CA:1306:C:C2'	25:CA:1306:C:O2	2.62	0.47
25:CA:1408:G:C2'	25:CA:1409:U:H5'	2.44	0.47
25:CA:1434:A:O2'	25:CA:1435:G:H8	1.95	0.47
25:CA:1536:C:H4'	25:CA:1537:G:C5'	2.45	0.47
25:CA:1855:U:O2'	25:CA:1856:U:H5'	2.15	0.47
25:CA:1924:C:H2'	25:CA:1925:C:H5''	1.96	0.47
25:CA:371:A:H5''	25:CA:423:A:C2	2.48	0.47
25:CA:483:A:O2'	45:CU:56:GLY:HA2	2.15	0.47
25:CA:720:U:O2	25:CA:720:U:C2'	2.61	0.47
25:CA:892:A:C2	25:CA:893:C:C5	3.02	0.47
27:CC:16:VAL:CG2	27:CC:203:VAL:HG22	2.44	0.47
25:CA:2831:G:OP1	28:CD:56:LYS:HE2	2.15	0.47
30:CF:56:LEU:HD11	30:CF:86:CYS:O	2.14	0.47
30:CF:30:VAL:HG23	30:CF:95:MET:SD	2.55	0.47
32:CH:57:LYS:HG2	32:CH:58:LEU:HG	1.96	0.47
33:CI:105:LEU:HA	33:CI:108:ILE:CB	2.43	0.47
33:CI:56:VAL:O	33:CI:57:VAL:O	2.32	0.47
33:CI:6:ALA:CB	33:CI:60:VAL:N	2.78	0.47
34:CJ:73:VAL:HG12	34:CJ:75:TYR:CE2	2.49	0.47
40:CP:9:GLN:C	40:CP:11:GLN:H	2.16	0.47
44:CT:35:ALA:HB1	44:CT:37:ASP:OD1	2.15	0.47
54:D3:60:CYS:O	54:D3:61:LEU:HD23	2.14	0.47
25:DA:1043:C:H2'	25:DA:1044:C:O4'	2.14	0.47
25:DA:1123:C:O2'	25:DA:1124:G:H5'	2.14	0.47
25:DA:1168:G:H2'	25:DA:1169:A:O4'	2.14	0.47
25:DA:1269:A:H8	25:DA:1269:A:O5'	1.97	0.47
25:DA:1331:G:C5	25:DA:1333:G:C8	3.02	0.47
25:DA:1398:C:H2'	25:DA:1399:C:O5'	2.15	0.47
25:DA:1414:C:C5	25:DA:1415:U:H5	2.31	0.47
25:DA:1455:G:C5	25:DA:1456:G:C8	3.02	0.47
25:DA:1494:A:C6	25:DA:1495:A:C5	3.03	0.47
25:DA:149:A:C2'	25:DA:150:U:O5'	2.62	0.47
25:DA:1588:G:C3'	25:DA:1589:U:H6	2.27	0.47
25:DA:158:U:C3'	25:DA:159:G:H5'	2.44	0.47
25:DA:1893:C:H2'	25:DA:1894:C:H5'	1.97	0.47
25:DA:2259:U:H1'	25:DA:2427:C:C2	2.49	0.47
25:DA:2476:A:C2	25:DA:2477:U:C2	3.02	0.47
25:DA:2646:C:O5'	25:DA:2646:C:H6	1.98	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2656:U:C5	25:DA:2664:G:N2	2.82	0.47
25:DA:2660:A:C6	25:DA:2661:G:C6	3.02	0.47
25:DA:410:G:C6	25:DA:2407:A:N6	2.82	0.47
25:DA:585:G:C5'	25:DA:586:A:OP1	2.62	0.47
25:DA:59:U:C2'	25:DA:60:G:O5'	2.62	0.47
25:DA:625:G:H2'	25:DA:626:A:C8	2.50	0.47
25:DA:838:C:O2'	25:DA:839:U:H5'	2.15	0.47
25:DA:909:A:C6	25:DA:912:C:C2	3.02	0.47
25:DA:929:U:O2	50:DZ:25:GLY:HA2	2.14	0.47
56:DB:12:C:C2	57:DW:70:PRO:HA	2.50	0.47
56:DB:62:C:O5'	56:DB:62:C:H6	1.97	0.47
27:DC:112:GLY:O	27:DC:113:ASP:C	2.52	0.47
27:DC:123:ILE:O	27:DC:123:ILE:HG22	2.14	0.47
28:DD:56:LYS:O	28:DD:57:ALA:C	2.53	0.47
30:DF:32:LYS:O	30:DF:33:ILE:HG12	2.14	0.47
31:DG:67:ALA:O	31:DG:71:LEU:HD12	2.15	0.47
32:DH:9:VAL:HB	32:DH:13:GLY:HA3	1.96	0.47
33:DI:125:THR:HG22	33:DI:126:ARG:N	2.29	0.47
35:DK:19:VAL:HG11	35:DK:41:ILE:HD13	1.97	0.47
36:DL:59:ARG:NH1	36:DL:59:ARG:HB3	2.29	0.47
25:DA:1244:A:H5'	36:DL:8:PRO:HD2	1.97	0.47
37:DM:32:GLY:C	37:DM:117:PHE:CE2	2.87	0.47
37:DM:130:PHE:CD2	37:DM:131:VAL:N	2.82	0.47
39:DO:58:ILE:HG22	39:DO:62:LEU:HD11	1.96	0.47
41:DQ:24:TYR:CG	41:DQ:25:GLY:N	2.83	0.47
45:DU:35:VAL:CG1	45:DU:38:ILE:HG13	2.44	0.47
45:DU:8:ASP:O	45:DU:24:VAL:HG23	2.15	0.47
1:AA:1181:G:C6	1:AA:1182:G:N2	2.83	0.47
1:AA:1186:G:H2'	1:AA:1187:G:O5'	2.14	0.47
1:AA:140:U:H2'	1:AA:141:G:O5'	2.13	0.47
1:AA:198:G:C6	1:AA:199:A:N7	2.82	0.47
1:AA:456:A:N6	1:AA:457:G:C6	2.83	0.47
1:AA:591:U:H2'	1:AA:592:G:H8	1.79	0.47
1:AA:599:C:H4'	8:AH:121:GLY:C	2.35	0.47
3:AC:106:ARG:O	3:AC:107:LYS:C	2.51	0.47
3:AC:205:GLU:OE2	3:AC:205:GLU:HA	2.14	0.47
4:AD:21:LYS:O	4:AD:22:SER:C	2.53	0.47
11:AK:96:ILE:HD12	11:AK:96:ILE:C	2.35	0.47
13:AM:53:ASP:HB3	13:AM:56:ARG:HH21	1.79	0.47
13:AM:66:GLY:O	13:AM:70:ARG:HB3	2.15	0.47
13:AM:68:LEU:O	13:AM:72:ILE:HG13	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:65:TYR:HB2	14:AN:96:LEU:HD11	1.96	0.47
15:AO:49:HIS:O	15:AO:52:ARG:HB3	2.15	0.47
23:AX:18:C:H3'	23:AX:19:U:C5'	2.45	0.47
1:BA:1298:U:H5'	1:BA:1299:A:C8	2.50	0.47
1:BA:1350:A:C6	1:BA:1351:U:N3	2.83	0.47
1:BA:1424:U:C2	1:BA:1425:U:C6	3.03	0.47
1:BA:1505:G:H4'	1:BA:1506:U:C5'	2.45	0.47
1:BA:220:G:N3	1:BA:221:C:C6	2.83	0.47
1:BA:243:A:N1	1:BA:246:A:N7	2.62	0.47
1:BA:318:G:N1	1:BA:319:G:C5	2.82	0.47
1:BA:590:U:H2'	1:BA:591:U:H6	1.76	0.47
1:BA:594:U:C3'	1:BA:595:A:H8	2.26	0.47
1:BA:606:G:N2	1:BA:632:U:OP1	2.47	0.47
1:BA:791:G:H2'	1:BA:792:A:H5'	1.95	0.47
1:BA:842:U:O2	1:BA:845:A:OP1	2.33	0.47
1:BA:929:G:C6	1:BA:930:C:C5	3.02	0.47
4:BD:123:MET:CE	4:BD:145:ARG:HD2	2.44	0.47
6:BF:6:ILE:HB	6:BF:62:MET:CB	2.44	0.47
7:BG:114:SER:HB3	7:BG:117:LEU:HG	1.96	0.47
11:BK:18:GLY:O	11:BK:81:LEU:HB2	2.15	0.47
12:BL:20:VAL:N	12:BL:21:PRO:HD3	2.30	0.47
16:BP:44:SER:O	16:BP:46:LYS:HG3	2.14	0.47
16:BP:61:VAL:HG21	16:BP:67:ILE:HD11	1.90	0.47
52:C1:31:GLU:O	52:C1:31:GLU:HG2	2.15	0.47
25:CA:1069:A:N1	25:CA:1074:G:C5	2.82	0.47
25:CA:1075:C:H3'	25:CA:1075:C:C6	2.49	0.47
25:CA:1122:G:C6	25:CA:1123:C:C5	3.03	0.47
25:CA:1124:G:H2'	25:CA:1125:G:H5'	1.95	0.47
25:CA:1731:G:C2	25:CA:1733:G:C4	3.03	0.47
25:CA:1735:A:C2	25:CA:1736:U:C2	3.03	0.47
25:CA:1637:A:H5'	25:CA:1760:C:O2'	2.14	0.47
25:CA:1776:G:N3	25:CA:1776:G:H2'	2.29	0.47
25:CA:1878:G:H2'	25:CA:1879:C:O4'	2.15	0.47
25:CA:2140:G:O6	25:CA:2151:U:O2	2.32	0.47
25:CA:278:A:H2'	25:CA:278:A:N3	2.29	0.47
25:CA:528:A:C8	25:CA:528:A:C3'	2.97	0.47
25:CA:729:G:H2'	25:CA:1775:U:H1'	1.96	0.47
29:CE:27:LEU:HD13	29:CE:100:MET:HE3	1.96	0.47
29:CE:30:GLN:HG2	29:CE:30:GLN:O	2.14	0.47
30:CF:101:ARG:O	30:CF:102:LEU:C	2.53	0.47
30:CF:73:VAL:HG22	30:CF:78:ILE:CD1	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:50:ARG:O	32:CH:51:ARG:C	2.53	0.47
33:CI:100:ILE:HG22	33:CI:104:GLN:HB2	1.95	0.47
25:CA:7:G:H5'	34:CJ:132:HIS:CE1	2.49	0.47
34:CJ:96:ARG:NH2	34:CJ:99:ARG:HD3	2.30	0.47
36:CL:2:ARG:O	36:CL:2:ARG:CG	2.62	0.47
39:CO:27:VAL:HG23	39:CO:38:GLN:HG3	1.97	0.47
44:CT:87:LEU:O	44:CT:89:GLU:N	2.46	0.47
45:CU:71:ILE:HG12	45:CU:71:ILE:O	2.14	0.47
46:CV:70:ILE:HG22	46:CV:72:VAL:HG13	1.96	0.47
25:DA:2418:A:OP1	54:D3:44:ARG:HD3	2.15	0.47
25:DA:1018:U:C2	25:DA:1019:U:C5	3.02	0.47
25:DA:140:C:O2	25:DA:140:C:O4'	2.33	0.47
25:DA:1464:G:H2'	25:DA:1465:G:C8	2.49	0.47
25:DA:1523:U:O2'	25:DA:1524:G:H5'	2.14	0.47
25:DA:1635:A:C6	25:DA:1636:U:C2	3.02	0.47
25:DA:1911:U:H2'	25:DA:1918:A:C2	2.49	0.47
25:DA:1918:A:HO2'	25:DA:1920:C:N4	2.13	0.47
25:DA:2137:U:N3	25:DA:2138:G:C8	2.83	0.47
25:DA:2293:G:H2'	25:DA:2294:G:O4'	2.14	0.47
25:DA:252:G:N2	25:DA:253:C:H1'	2.30	0.47
25:DA:2555:U:H2'	25:DA:2556:C:H5'	1.96	0.47
25:DA:2723:C:H2'	25:DA:2724:U:O5'	2.14	0.47
25:DA:2793:C:C2	25:DA:2794:C:C5	3.03	0.47
25:DA:615:U:C3'	25:DA:616:A:H5'	2.42	0.47
25:DA:915:C:H2'	25:DA:916:G:H5'	1.97	0.47
25:DA:947:A:H2'	25:DA:948:C:C6	2.49	0.47
27:DC:188:ARG:HH21	27:DC:188:ARG:HG3	1.80	0.47
31:DG:26:LYS:CB	31:DG:31:GLU:HG3	2.45	0.47
32:DH:135:HIS:HB3	32:DH:138:VAL:HB	1.96	0.47
33:DI:122:GLU:O	33:DI:125:THR:HB	2.14	0.47
33:DI:16:MET:SD	33:DI:22:PRO:HG2	2.55	0.47
33:DI:7:TYR:O	33:DI:8:VAL:HG13	2.15	0.47
36:DL:132:ARG:HG3	36:DL:142:ILE:HD12	1.95	0.47
38:DN:26:GLY:O	38:DN:29:VAL:N	2.47	0.47
44:DT:17:SER:O	44:DT:20:ALA:N	2.47	0.47
57:DW:15:LYS:O	57:DW:16:ARG:CB	2.63	0.47
1:AA:1230:C:H6	1:AA:1230:C:O5'	1.97	0.47
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.29	0.47
1:AA:1507:A:C5	1:AA:1530:G:C6	3.02	0.47
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.50	0.47
1:AA:714:G:O2'	1:AA:715:A:H5'	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:71:A:O2'	1:AA:72:A:P	2.73	0.47
1:AA:864:A:OP1	1:AA:864:A:H8	1.98	0.47
2:AB:27:LYS:N	2:AB:28:PRO:HD3	2.30	0.47
2:AB:56:LEU:CD2	2:AB:56:LEU:C	2.80	0.47
3:AC:153:SER:HA	3:AC:164:THR:HA	1.95	0.47
4:AD:101:VAL:HA	4:AD:104:MET:HG3	1.96	0.47
5:AE:94:PHE:HZ	5:AE:96:GLN:HG3	1.79	0.47
7:AG:94:ARG:CZ	7:AG:98:LEU:HD21	2.44	0.47
11:AK:96:ILE:HA	11:AK:99:LEU:HD23	1.96	0.47
12:AL:115:LYS:O	12:AL:116:TYR:CB	2.63	0.47
13:AM:70:ARG:HD2	13:AM:70:ARG:O	2.15	0.47
17:AQ:17:GLU:O	17:AQ:18:LYS:HB2	2.15	0.47
1:AA:130:A:N7	17:AQ:64:ARG:HB2	2.29	0.47
18:AR:25:ILE:HA	18:AR:28:LEU:HB2	1.95	0.47
20:AT:2:ASN:O	20:AT:3:ILE:C	2.52	0.47
21:AU:38:GLU:HA	21:AU:40:PRO:HD2	1.96	0.47
1:BA:1155:A:O2'	1:BA:1156:G:H5'	2.15	0.47
1:BA:1381:U:H2'	1:BA:1382:C:H6	1.80	0.47
1:BA:1392:G:C2'	1:BA:1393:U:H5'	2.45	0.47
1:BA:1438:G:C2'	1:BA:1439:G:H5'	2.44	0.47
1:BA:1523:G:OP1	11:BK:124:LYS:HD3	2.15	0.47
1:BA:337:G:C6	1:BA:338:A:C6	3.02	0.47
1:BA:389:A:H2'	1:BA:390:U:H5'	1.97	0.47
1:BA:406:G:C2	1:BA:407:U:C5	3.03	0.47
1:BA:414:A:C2	1:BA:415:A:C1'	2.97	0.47
1:BA:467:U:H3'	1:BA:467:U:O2	2.15	0.47
1:BA:518:C:C2'	1:BA:530:G:C8	2.91	0.47
1:BA:560:A:C8	1:BA:566:G:N3	2.83	0.47
1:BA:709:U:H2'	1:BA:710:G:H8	1.79	0.47
1:BA:801:U:C2	1:BA:802:A:C8	3.03	0.47
2:BB:163:ILE:HG13	2:BB:203:ASP:HB2	1.96	0.47
2:BB:49:PHE:O	2:BB:52:ALA:HB3	2.15	0.47
2:BB:82:ALA:O	2:BB:85:SER:OG	2.30	0.47
2:BB:95:TRP:CH2	2:BB:99:MET:HG3	2.49	0.47
3:BC:151:GLU:HA	3:BC:166:TRP:HB3	1.96	0.47
3:BC:7:ASN:C	3:BC:9:ILE:H	2.18	0.47
4:BD:71:PHE:HE1	4:BD:199:ILE:HD11	1.79	0.47
6:BF:29:ILE:HG21	6:BF:36:ILE:HG22	1.97	0.47
8:BH:112:ASP:O	8:BH:113:ARG:C	2.53	0.47
17:BQ:69:THR:O	17:BQ:70:LYS:CB	2.63	0.47
20:BT:53:MET:HG3	20:BT:54:GLN:H	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:66:ILE:O	20:BT:67:HIS:CB	2.62	0.47
11:BK:109:ILE:CG2	21:BU:16:ARG:NE	2.77	0.47
25:CA:1076:C:H2'	25:CA:1077:A:O4'	2.14	0.47
25:CA:1090:A:N1	25:CA:1091:G:N7	2.62	0.47
25:CA:1415:U:O2	25:CA:1415:U:C3'	2.63	0.47
25:CA:1433:A:H2'	25:CA:1434:A:O4'	2.15	0.47
25:CA:1441:G:H2'	25:CA:1442:U:C6	2.50	0.47
25:CA:1533:C:N4	25:CA:1534:U:C4	2.83	0.47
25:CA:1547:C:C2'	25:CA:1548:A:O5'	2.62	0.47
25:CA:1585:C:C2'	25:CA:1586:A:H5'	2.44	0.47
25:CA:158:U:H2'	25:CA:159:G:H5'	1.96	0.47
25:CA:1838:C:C4	25:CA:1899:A:C5	3.03	0.47
25:CA:2161:C:O2	25:CA:2162:G:C8	2.66	0.47
25:CA:2210:U:O3'	25:CA:2211:A:H4'	2.14	0.47
25:CA:2219:U:C2'	25:CA:2220:U:O5'	2.62	0.47
25:CA:2303:G:C4	25:CA:2304:G:C8	3.02	0.47
25:CA:2388:A:H5'	25:CA:2389:G:OP2	2.15	0.47
25:CA:2516:A:C2	25:CA:2569:G:N3	2.83	0.47
25:CA:460:A:P	53:C2:41:ARG:HH12	2.37	0.47
25:CA:662:G:O3'	36:CL:16:GLY:HA2	2.14	0.47
25:CA:894:U:H2'	25:CA:895:U:H6	1.77	0.47
32:CH:135:HIS:CD2	32:CH:137:GLU:HG2	2.49	0.47
33:CI:27:LEU:HD11	33:CI:34:ILE:HA	1.96	0.47
33:CI:42:ASN:HB3	33:CI:46:ASP:OD1	2.14	0.47
39:CO:64:TYR:HB3	39:CO:67:ASN:ND2	2.29	0.47
28:CD:12:THR:HG21	40:CP:8:GLU:CG	2.45	0.47
41:CQ:10:ARG:HA	41:CQ:10:ARG:HD2	1.63	0.47
43:CS:11:ARG:O	43:CS:12:SER:HB3	2.14	0.47
52:D1:25:ASN:O	52:D1:26:LYS:C	2.53	0.47
52:D1:42:VAL:HG12	52:D1:44:GLN:H	1.80	0.47
25:DA:1069:A:C2	25:DA:1073:A:N7	2.83	0.47
25:DA:1087:G:N1	25:DA:1089:A:C2	2.83	0.47
25:DA:1010:A:H1'	25:DA:1153:C:C1'	2.45	0.47
25:DA:1214:A:H4'	25:DA:1239:G:H4'	1.97	0.47
25:DA:1287:A:H5'	38:DN:103:ARG:HD2	1.96	0.47
25:DA:2162:G:HO2'	25:DA:2163:A:H8	1.60	0.47
25:DA:2292:U:H2'	25:DA:2293:G:O5'	2.15	0.47
25:DA:2293:G:C2	25:DA:2340:A:C2	3.03	0.47
25:DA:2378:A:C2'	25:DA:2379:G:O5'	2.62	0.47
25:DA:2556:C:C2'	25:DA:2557:G:O5'	2.63	0.47
25:DA:2850:A:C6	25:DA:2851:A:C5	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:295:G:N1	25:DA:296:U:C5	2.83	0.47
25:DA:294:A:N7	25:DA:345:A:C6	2.82	0.47
25:DA:404:A:N1	25:DA:406:G:C2	2.82	0.47
25:DA:818:G:C2'	25:DA:819:A:H5''	2.44	0.47
56:DB:15:A:C8	56:DB:109:A:C6	3.03	0.47
25:DA:1799:G:O2'	27:DC:179:GLU:OE2	2.20	0.47
27:DC:1:ALA:CA	27:DC:198:GLU:OE2	2.62	0.47
33:DI:50:LYS:CD	33:DI:50:LYS:N	2.78	0.47
37:DM:54:THR:O	37:DM:55:ARG:C	2.53	0.47
56:DB:49:C:O3'	39:DO:68:LYS:HG3	2.14	0.47
43:DS:2:GLU:HA	43:DS:108:SER:HB3	1.97	0.47
44:DT:38:ALA:O	44:DT:39:THR:HB	2.15	0.47
44:DT:51:PHE:O	44:DT:53:VAL:HG13	2.15	0.47
57:DW:15:LYS:O	57:DW:16:ARG:HB2	2.14	0.47
1:AA:1286:U:H2'	1:AA:1286:U:O2	2.14	0.47
1:AA:1490:U:H2'	1:AA:1491:G:H5'	1.94	0.47
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.96	0.47
1:AA:154:U:O4	1:AA:167:A:N1	2.48	0.47
1:AA:258:G:C2	1:AA:269:C:O2	2.68	0.47
1:AA:299:G:O6	1:AA:300:A:N1	2.48	0.47
1:AA:340:U:H2'	1:AA:341:C:C6	2.47	0.47
1:AA:417:G:C2	1:AA:418:C:C2	3.02	0.47
1:AA:502:A:C2	1:AA:503:C:C2	3.03	0.47
1:AA:49:U:O2'	1:AA:50:A:H2'	2.14	0.47
1:AA:609:A:O5'	1:AA:609:A:H8	1.97	0.47
1:AA:599:C:O2	1:AA:640:A:C2	2.68	0.47
1:AA:763:G:H2'	1:AA:764:C:O5'	2.13	0.47
2:AB:40:ILE:HG21	2:AB:201:GLY:H	1.79	0.47
5:AE:108:GLY:O	5:AE:109:ALA:CB	2.62	0.47
6:AF:67:PRO:O	6:AF:69:GLU:N	2.48	0.47
7:AG:42:VAL:O	7:AG:46:LEU:N	2.47	0.47
16:AP:52:LEU:O	16:AP:54:LEU:N	2.48	0.47
20:AT:53:MET:HA	20:AT:56:ILE:CG2	2.44	0.47
21:AU:38:GLU:OE2	21:AU:41:THR:HG21	2.14	0.47
22:AV:21:A:O4'	22:AV:48:C:N4	2.48	0.47
22:AV:48:C:C2	22:AV:59:U:H1'	2.50	0.47
1:BA:1302:C:C4	13:BM:16:ILE:CD1	2.98	0.47
1:BA:1323:G:C1'	1:BA:1362:A:C2	2.97	0.47
1:BA:1422:G:C2'	1:BA:1423:G:H5'	2.44	0.47
1:BA:158:G:C5	1:BA:159:G:N7	2.82	0.47
1:BA:161:A:H2'	1:BA:162:A:C8	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:15:G:C6	1:BA:16:A:C6	3.03	0.47
1:BA:179:A:H2'	1:BA:180:U:C6	2.50	0.47
1:BA:352:C:H42	1:BA:357:G:N2	2.11	0.47
1:BA:484:G:H4'	1:BA:485:U:C5'	2.44	0.47
1:BA:607:A:H2'	1:BA:608:A:C8	2.48	0.47
1:BA:401:C:O2'	1:BA:621:A:N3	2.38	0.47
2:BB:68:PHE:O	2:BB:90:PHE:HA	2.15	0.47
3:BC:130:ARG:HE	3:BC:130:ARG:H	1.62	0.47
1:BA:8:A:N6	4:BD:201:GLU:O	2.47	0.47
4:BD:36:ALA:O	4:BD:38:GLY:N	2.48	0.47
5:BE:92:ARG:CZ	5:BE:92:ARG:HB3	2.43	0.47
5:BE:93:VAL:CG1	5:BE:110:MET:HE3	2.44	0.47
6:BF:70:VAL:HG23	6:BF:71:ILE:H	1.80	0.47
7:BG:77:ARG:O	7:BG:78:ARG:C	2.52	0.47
5:BE:155:LYS:CG	8:BH:65:PHE:HB2	2.43	0.47
9:BI:19:PHE:O	9:BI:62:LEU:HA	2.14	0.47
9:BI:5:TYR:HB2	9:BI:20:ILE:CG2	2.44	0.47
9:BI:24:ASN:HB3	9:BI:58:GLU:CD	2.34	0.47
9:BI:66:VAL:HG13	9:BI:66:VAL:O	2.14	0.47
12:BL:50:LYS:CD	12:BL:50:LYS:N	2.78	0.47
13:BM:18:LEU:O	13:BM:20:SER:N	2.47	0.47
21:BU:14:ALA:C	21:BU:15:LEU:HG	2.34	0.47
21:BU:24:LYS:NZ	21:BU:25:ALA:HB2	2.30	0.47
25:CA:1079:C:N4	25:CA:1088:A:C4	2.83	0.47
25:CA:1196:C:O4'	25:CA:1226:A:C2	2.68	0.47
25:CA:1287:A:H3'	25:CA:1288:G:N2	2.30	0.47
25:CA:1534:U:H2'	25:CA:1534:U:O2	2.13	0.47
25:CA:1773:A:N7	25:CA:1829:A:H1'	2.30	0.47
25:CA:1840:G:C4	25:CA:1841:U:C5	3.02	0.47
25:CA:1869:G:H2'	25:CA:1870:C:H5'	1.97	0.47
25:CA:1888:G:H5''	25:CA:1889:A:OP1	2.15	0.47
25:CA:2063:C:O2	25:CA:2450:A:N1	2.48	0.47
25:CA:21:A:C2'	25:CA:22:C:O5'	2.63	0.47
25:CA:2317:A:N6	25:CA:2318:G:C2	2.83	0.47
25:CA:632:A:H2'	25:CA:633:A:C8	2.49	0.47
25:CA:684:G:C6	25:CA:774:G:C4	3.02	0.47
27:CC:156:SER:O	27:CC:194:VAL:CG1	2.62	0.47
25:CA:729:G:C6	27:CC:206:LYS:HB2	2.49	0.47
27:CC:96:LYS:HA	27:CC:96:LYS:CE	2.45	0.47
29:CE:7:ASP:C	29:CE:9:GLN:H	2.17	0.47
30:CF:57:ALA:O	30:CF:60:SER:O	2.33	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:102:ILE:HD12	31:CG:147:LEU:HD11	1.96	0.47
41:CQ:26:ALA:O	41:CQ:28:SER:N	2.48	0.47
49:CY:24:GLU:O	49:CY:25:GLN:C	2.52	0.47
49:CY:9:LYS:HB3	49:CY:12:GLU:CG	2.45	0.47
50:CZ:36:GLU:O	50:CZ:37:ARG:HD3	2.14	0.47
25:DA:1165:A:C2	25:DA:1185:G:C2	3.03	0.47
25:DA:1441:G:C2'	25:DA:1442:U:O5'	2.63	0.47
25:DA:1490:A:O2'	27:DC:97:ASP:OD2	2.32	0.47
25:DA:1587:G:C5	25:DA:1588:G:C8	3.03	0.47
25:DA:1833:C:H2'	25:DA:1834:U:C6	2.50	0.47
25:DA:2180:U:C4	25:DA:2181:U:C4	3.03	0.47
25:DA:227:A:N6	25:DA:410:G:H1'	2.30	0.47
25:DA:2350:C:H2'	25:DA:2351:G:O5'	2.15	0.47
25:DA:2362:C:O5'	25:DA:2362:C:H6	1.97	0.47
25:DA:227:A:N3	25:DA:2407:A:H1'	2.29	0.47
25:DA:2420:C:OP1	54:D3:33:THR:HB	2.14	0.47
25:DA:282:A:H2'	25:DA:283:G:O4'	2.15	0.47
25:DA:511:U:C2'	25:DA:512:G:H5'	2.45	0.47
25:DA:609:A:C8	25:DA:610:C:C6	3.03	0.47
25:DA:640:C:H2'	25:DA:641:U:O4'	2.14	0.47
25:DA:709:U:H2'	25:DA:710:U:O4'	2.15	0.47
25:DA:845:A:C2	25:DA:847:U:C6	3.03	0.47
25:DA:7:G:C5	25:DA:8:C:C5	3.03	0.47
25:DA:948:C:H1'	25:DA:984:A:O2'	2.15	0.47
30:DF:101:ARG:O	30:DF:102:LEU:O	2.32	0.47
31:DG:8:VAL:HG21	31:DG:72:ASN:HB2	1.95	0.47
33:DI:30:GLN:HG2	33:DI:32:VAL:HG23	1.95	0.47
33:DI:8:VAL:O	33:DI:56:VAL:O	2.32	0.47
37:DM:30:SER:HB2	37:DM:31:PHE:CE1	2.50	0.47
37:DM:97:GLN:N	37:DM:97:GLN:CD	2.68	0.47
39:DO:49:VAL:HG11	39:DO:81:ARG:CB	2.44	0.47
41:DQ:26:ALA:HB1	41:DQ:30:VAL:CG2	2.44	0.47
44:DT:44:LYS:HG3	44:DT:55:VAL:CG1	2.43	0.47
25:DA:1340:U:O2'	44:DT:61:LEU:HD13	2.15	0.47
25:DA:396:G:H1'	48:DX:28:PHE:HB3	1.97	0.47
48:DX:29:LEU:HD23	48:DX:29:LEU:HA	1.77	0.47
48:DX:65:THR:O	48:DX:68:ALA:HB3	2.15	0.47
49:DY:26:PHE:CE2	49:DY:30:MET:CG	2.95	0.47
1:AA:1079:G:C6	1:AA:1080:A:N6	2.83	0.47
1:AA:1106:G:C6	1:AA:1107:C:N4	2.83	0.47
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1480:A:C4	1:AA:1481:U:C6	3.02	0.47
1:AA:203:G:N2	1:AA:215:C:C2	2.83	0.47
1:AA:47:C:H4'	1:AA:48:C:O5'	2.15	0.47
1:AA:833:G:C4	1:AA:834:U:C6	3.03	0.47
1:AA:985:C:H2'	1:AA:986:U:C6	2.50	0.47
3:AC:84:GLU:C	3:AC:86:LEU:H	2.18	0.47
3:AC:7:ASN:O	3:AC:8:GLY:C	2.53	0.47
8:AH:24:VAL:CG1	8:AH:62:LEU:HD21	2.44	0.47
9:AI:27:ILE:CG1	9:AI:62:LEU:HD21	2.45	0.47
11:AK:23:HIS:C	11:AK:23:HIS:CD2	2.88	0.47
11:AK:87:GLY:H	11:AK:113:THR:CG2	2.27	0.47
13:AM:32:ILE:HD13	13:AM:58:GLU:HG3	1.97	0.47
16:AP:39:PHE:CB	16:AP:74:LEU:HD11	2.45	0.47
18:AR:22:TYR:CE1	18:AR:23:LYS:HG3	2.49	0.47
1:AA:1225:A:O4'	19:AS:77:ARG:HD3	2.15	0.47
24:AY:18:VAL:O	24:AY:21:PHE:HB3	2.14	0.47
1:BA:1242:G:O2'	1:BA:1243:C:H5'	2.15	0.47
1:BA:1361:G:C6	1:BA:1362:A:C8	3.03	0.47
1:BA:1397:C:C3'	1:BA:1398:A:H5''	2.44	0.47
1:BA:1458:G:H2'	1:BA:1459:G:H8	1.79	0.47
1:BA:173:U:H6	1:BA:198:G:HO2'	1.63	0.47
1:BA:409:U:OP1	4:BD:23:GLY:HA3	2.14	0.47
1:BA:443:C:H2'	1:BA:444:G:O4'	2.15	0.47
1:BA:489:C:H2'	1:BA:490:C:H6	1.80	0.47
1:BA:4:U:H5''	1:BA:5:U:OP1	2.14	0.47
1:BA:562:U:C4'	1:BA:563:A:H5'	2.43	0.47
1:BA:629:A:H2'	1:BA:630:A:O4'	2.15	0.47
1:BA:631:C:C3'	1:BA:632:U:H5'	2.44	0.47
1:BA:712:A:C2'	1:BA:713:G:O5'	2.62	0.47
1:BA:784:A:H2'	1:BA:785:G:O4'	2.15	0.47
1:BA:841:C:C3'	1:BA:843:U:H5''	2.38	0.47
5:BE:153:ALA:N	5:BE:156:ARG:HB3	2.30	0.47
6:BF:6:ILE:CG2	6:BF:7:VAL:N	2.77	0.47
12:BL:17:LYS:O	12:BL:17:LYS:HD2	2.15	0.47
12:BL:21:PRO:C	12:BL:23:LEU:H	2.18	0.47
12:BL:80:LEU:HD12	12:BL:81:ILE:H	1.80	0.47
13:BM:15:VAL:HG23	13:BM:16:ILE:HG13	1.97	0.47
13:BM:76:ILE:HG23	13:BM:90:HIS:CD2	2.49	0.47
21:BU:23:GLU:O	21:BU:24:LYS:C	2.52	0.47
25:CA:1121:C:C3'	25:CA:1121:C:C6	2.98	0.47
25:CA:134:G:H2'	25:CA:135:U:O5'	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2383:G:C2'	25:CA:2384:U:H5'	2.45	0.47
25:CA:2593:U:H2'	25:CA:2594:C:C6	2.50	0.47
25:CA:2660:A:C2	25:CA:2661:G:H1'	2.49	0.47
25:CA:2881:U:H2'	25:CA:2882:A:O5'	2.15	0.47
26:CB:36:C:H5''	26:CB:37:C:OP2	2.15	0.47
26:CB:45:A:H2'	26:CB:46:A:O4'	2.15	0.47
27:CC:51:ARG:O	27:CC:52:HIS:HB2	2.14	0.47
25:CA:2785:C:O2'	28:CD:67:HIS:CD2	2.62	0.47
29:CE:119:ILE:N	29:CE:119:ILE:HD13	2.30	0.47
29:CE:3:LEU:CD1	29:CE:14:VAL:HG21	2.44	0.47
29:CE:5:LEU:CD1	29:CE:5:LEU:N	2.77	0.47
30:CF:30:VAL:CG2	30:CF:95:MET:SD	3.03	0.47
31:CG:71:LEU:CD1	31:CG:71:LEU:N	2.78	0.47
31:CG:9:VAL:CG1	31:CG:9:VAL:O	2.63	0.47
32:CH:72:ILE:HD12	32:CH:140:ALA:HB3	1.97	0.47
35:CK:69:VAL:O	35:CK:76:VAL:HA	2.14	0.47
36:CL:106:GLU:CB	36:CL:107:PHE:CE2	2.98	0.47
37:CM:36:VAL:HG23	37:CM:129:THR:CG2	2.42	0.47
38:CN:77:ALA:O	38:CN:79:LEU:O	2.33	0.47
40:CP:21:PRO:HD3	40:CP:49:ILE:CD1	2.44	0.47
40:CP:30:TRP:CE3	40:CP:39:LEU:HD12	2.50	0.47
46:CV:18:ARG:HH11	46:CV:18:ARG:HG3	1.79	0.47
25:CA:396:G:H1'	48:CX:28:PHE:HB3	1.97	0.47
48:CX:76:LYS:HE3	48:CX:77:TYR:H	1.79	0.47
55:D4:7:VAL:C	55:D4:8:LYS:CG	2.83	0.47
25:DA:1066:U:H1'	25:DA:1074:G:H22	1.78	0.47
25:DA:1356:G:C2	25:DA:1376:C:O2	2.67	0.47
25:DA:1356:G:C2	25:DA:1357:C:C2	3.02	0.47
25:DA:1517:G:O2'	25:DA:1518:C:H5'	2.15	0.47
25:DA:1943:U:C4'	25:DA:1944:U:OP1	2.56	0.47
25:DA:1990:C:H5''	25:DA:1991:U:P	2.54	0.47
25:DA:2070:A:H2'	25:DA:2070:A:N3	2.30	0.47
25:DA:2278:A:C2'	25:DA:2279:G:O5'	2.62	0.47
25:DA:2424:C:H6	25:DA:2424:C:H5'	1.80	0.47
25:DA:2531:A:C6	25:DA:2532:G:C5	3.03	0.47
25:DA:2661:G:H2'	25:DA:2662:A:O5'	2.15	0.47
25:DA:2663:G:O2'	25:DA:2664:G:H5'	2.14	0.47
25:DA:2839:G:C4	25:DA:2840:C:C5	3.02	0.47
25:DA:511:U:H2'	25:DA:512:G:H5'	1.96	0.47
25:DA:545:U:P	25:DA:545:U:O2	2.73	0.47
25:DA:624:C:O2'	25:DA:657:U:H5''	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:64:A:C6	25:DA:65:U:O4	2.68	0.47
25:DA:705:A:C2	25:DA:706:A:C4	3.03	0.47
25:DA:877:A:C2	25:DA:900:A:N7	2.82	0.47
56:DB:14:U:H4'	56:DB:15:A:OP2	2.14	0.47
27:DC:161:VAL:HG11	27:DC:173:LEU:HG	1.96	0.47
29:DE:23:PHE:CD1	29:DE:111:GLU:HG3	2.49	0.47
31:DG:126:THR:HG22	31:DG:127:GLN:N	2.29	0.47
31:DG:89:VAL:HG21	31:DG:162:ARG:HE	1.79	0.47
33:DI:101:SER:HB2	33:DI:140:GLU:O	2.15	0.47
33:DI:17:ALA:HB1	33:DI:41:PHE:CD2	2.50	0.47
37:DM:34:LYS:HE3	37:DM:131:VAL:HG11	1.96	0.47
38:DN:117:ASP:O	38:DN:118:ARG:HB2	2.14	0.47
38:DN:20:MET:CG	38:DN:21:PHE:N	2.78	0.47
39:DO:40:ILE:CG2	39:DO:44:GLY:HA2	2.45	0.47
25:DA:18:U:O3'	41:DQ:22:GLY:HA2	2.14	0.47
43:DS:19:LEU:HG	51:D0:21:LEU:HG	1.96	0.47
44:DT:29:THR:HG23	44:DT:86:THR:N	2.29	0.47
46:DV:54:ALA:C	46:DV:56:PHE:H	2.16	0.47
46:DV:69:GLU:O	46:DV:70:ILE:HG12	2.14	0.47
48:DX:10:ARG:HB3	48:DX:11:PRO:CD	2.45	0.47
48:DX:66:VAL:O	48:DX:69:GLU:HB2	2.15	0.47
49:DY:28:LEU:HD23	49:DY:37:LEU:HD11	1.97	0.47
1:AA:1149:C:H6	1:AA:1149:C:O5'	1.98	0.47
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.80	0.47
1:AA:214:C:H2'	1:AA:215:C:C6	2.48	0.47
1:AA:478:A:H2'	1:AA:479:U:O5'	2.14	0.47
1:AA:853:C:C2	1:AA:854:U:C6	3.03	0.47
2:AB:112:ARG:O	2:AB:116:LEU:HD23	2.15	0.47
2:AB:30:ILE:HD13	2:AB:38:HIS:CG	2.50	0.47
2:AB:63:LYS:O	2:AB:65:LYS:CE	2.61	0.47
2:AB:9:LEU:HD11	2:AB:11:ALA:O	2.14	0.47
3:AC:141:MET:CE	3:AC:147:GLY:HA2	2.44	0.47
3:AC:41:TYR:CE1	3:AC:42:LEU:HD12	2.50	0.47
3:AC:46:LEU:HD21	3:AC:86:LEU:HD11	1.97	0.47
13:AM:88:LEU:O	13:AM:92:ARG:HG3	2.13	0.47
13:AM:94:LEU:CB	13:AM:95:PRO:HD2	2.45	0.47
14:AN:73:PHE:CZ	14:AN:78:GLY:HA2	2.49	0.47
1:BA:1031:C:H4'	1:BA:1032:G:C4	2.50	0.47
1:BA:1072:G:C4	1:BA:1073:U:C6	3.02	0.47
1:BA:1085:U:H5'	1:BA:1094:G:C2	2.50	0.47
1:BA:1269:A:H2	1:BA:1312:G:N3	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1374:A:C2'	1:BA:1375:A:H5'	2.45	0.47
1:BA:188:C:C2	1:BA:189:A:C8	3.02	0.47
1:BA:317:U:N3	1:BA:318:G:N7	2.63	0.47
1:BA:634:C:C2'	1:BA:635:A:O5'	2.63	0.47
1:BA:66:A:O4'	1:BA:173:U:C4	2.68	0.47
1:BA:664:G:H22	1:BA:741:G:H1	1.63	0.47
2:BB:117:GLU:N	2:BB:140:LEU:HD21	2.29	0.47
3:BC:153:SER:HB3	3:BC:164:THR:HB	1.96	0.47
3:BC:41:TYR:CE1	3:BC:89:VAL:HG21	2.50	0.47
5:BE:10:LEU:HD23	5:BE:11:GLN:H	1.80	0.47
5:BE:155:LYS:CE	5:BE:155:LYS:N	2.77	0.47
5:BE:93:VAL:CG1	5:BE:110:MET:CE	2.93	0.47
6:BF:10:VAL:HG11	6:BF:18:VAL:HG22	1.97	0.47
8:BH:48:PHE:C	8:BH:48:PHE:CD1	2.88	0.47
10:BJ:19:ASP:HB3	10:BJ:72:ARG:HH21	1.80	0.47
1:AA:1164:G:C5'	10:BJ:89:ARG:HD2	2.45	0.47
14:BN:17:ASP:O	14:BN:18:LYS:C	2.53	0.47
14:BN:19:TYR:CD1	14:BN:19:TYR:N	2.83	0.47
14:BN:42:TRP:CD1	14:BN:42:TRP:O	2.68	0.47
15:BO:16:ARG:O	15:BO:17:ASP:CB	2.63	0.47
16:BP:39:PHE:CZ	16:BP:41:PRO:HB3	2.50	0.47
25:CA:1063:G:N2	33:CI:89:SER:HG	2.12	0.47
25:CA:1079:C:C2	25:CA:1080:A:C8	3.03	0.47
25:CA:1139:G:O3'	34:CJ:26:GLY:CA	2.62	0.47
25:CA:1292:G:O2'	25:CA:1293:C:H5'	2.15	0.47
25:CA:1724:G:H1	25:CA:1737:G:H1'	1.80	0.47
25:CA:1907:G:C5	25:CA:1908:C:C5	3.03	0.47
25:CA:1919:A:H5''	25:CA:1920:C:OP2	2.15	0.47
24:AY:133:ARG:HH22	25:CA:1941:C:H2'	1.80	0.47
25:CA:2591:C:H2'	25:CA:2592:G:C8	2.49	0.47
25:CA:2732:G:O2'	25:CA:2733:A:H5'	2.14	0.47
25:CA:368:A:H8	25:CA:368:A:O5'	1.97	0.47
25:CA:551:G:H2'	25:CA:552:U:O4'	2.15	0.47
25:CA:601:C:O2	25:CA:605:G:H4'	2.14	0.47
27:CC:58:LYS:O	27:CC:59:GLN:HG3	2.15	0.47
29:CE:48:THR:C	29:CE:50:ALA:N	2.68	0.47
30:CF:129:MET:HB2	30:CF:129:MET:HE3	1.89	0.47
31:CG:16:VAL:HG22	31:CG:25:ILE:HD13	1.97	0.47
33:CI:12:VAL:O	33:CI:13:ALA:HB2	2.15	0.47
33:CI:100:ILE:HG12	33:CI:137:LEU:HD13	1.97	0.47
33:CI:18:ASN:ND2	33:CI:27:LEU:CD1	2.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:24:GLY:O	33:CI:34:ILE:HG23	2.15	0.47
33:CI:33:ASN:CB	33:CI:36:GLU:HG2	2.45	0.47
35:CK:104:THR:HB	35:CK:106:GLU:OE1	2.15	0.47
36:CL:99:ASN:CG	60:CL:202:HOH:O	2.53	0.47
37:CM:42:THR:HG22	37:CM:93:VAL:HG12	1.97	0.47
40:CP:103:THR:O	40:CP:105:LYS:N	2.48	0.47
54:D3:30:HIS:ND1	54:D3:31:ILE:HG13	2.29	0.47
25:DA:1053:C:C2	25:DA:1107:G:N2	2.82	0.47
25:DA:1395:A:O2'	25:DA:1397:U:C6	2.68	0.47
25:DA:1387:A:C4'	25:DA:1469:A:H1'	2.44	0.47
25:DA:1482:G:H1'	25:DA:1509:A:H61	1.80	0.47
25:DA:1575:C:N3	25:DA:1576:U:C5	2.83	0.47
25:DA:2210:U:C2	25:DA:2212:A:N7	2.83	0.47
25:DA:2232:C:C4	25:DA:2233:U:C5	3.03	0.47
25:DA:858:G:C4	25:DA:2268:A:C2	3.02	0.47
25:DA:236:C:O2'	25:DA:237:C:H5'	2.15	0.47
25:DA:249:C:O2'	36:DL:63:LYS:HE2	2.15	0.47
25:DA:2677:G:C6	25:DA:2731:G:C6	3.03	0.47
25:DA:2704:C:H3'	25:DA:2705:A:H8	1.80	0.47
25:DA:447:A:N1	25:DA:454:A:C8	2.83	0.47
25:DA:480:A:OP2	45:DU:43:LYS:NZ	2.47	0.47
25:DA:979:A:C2'	25:DA:980:A:OP1	2.62	0.47
27:DC:118:GLY:O	27:DC:120:ASP:N	2.48	0.47
27:DC:118:GLY:O	27:DC:119:VAL:C	2.52	0.47
25:DA:782:A:C2	27:DC:224:MET:SD	3.08	0.47
29:DE:109:LEU:HA	29:DE:109:LEU:HD12	1.74	0.47
30:DF:142:TYR:O	30:DF:142:TYR:CG	2.68	0.47
30:DF:21:TYR:HD1	30:DF:26:GLN:HG2	1.80	0.47
32:DH:2:GLN:O	32:DH:19:VAL:HG23	2.15	0.47
32:DH:2:GLN:HA	32:DH:19:VAL:O	2.15	0.47
33:DI:27:LEU:O	33:DI:30:GLN:OE1	2.32	0.47
33:DI:7:TYR:HB2	33:DI:58:ILE:H	1.80	0.47
35:DK:22:ILE:O	35:DK:23:LYS:HB2	2.15	0.47
36:DL:117:THR:O	36:DL:118:THR:C	2.53	0.47
37:DM:51:ARG:O	37:DM:52:ALA:C	2.53	0.47
25:DA:1454:C:N4	38:DN:73:ASN:HD21	2.13	0.47
41:DQ:7:VAL:HG12	41:DQ:8:ILE:HG22	1.96	0.47
42:DR:81:LYS:O	42:DR:82:HIS:HB3	2.14	0.47
46:DV:20:LEU:CD2	46:DV:26:PHE:HA	2.44	0.47
1:AA:1004:A:C2	1:AA:1026:G:C4	3.03	0.47
1:AA:1126:U:H4'	1:AA:1127:G:OP2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1164:G:H5''	10:BJ:89:ARG:HD2	1.97	0.47
1:AA:1175:G:O2'	1:AA:1176:A:H5'	2.14	0.47
1:AA:143:A:N3	1:AA:143:A:C2'	2.75	0.47
1:AA:323:U:O4	1:AA:324:G:C6	2.68	0.47
1:AA:458:U:H2'	1:AA:458:U:O2	2.14	0.47
1:AA:540:G:C4	1:AA:541:G:C8	3.03	0.47
1:AA:854:U:C6	1:AA:871:U:O4	2.68	0.47
1:AA:921:U:C5	1:AA:922:G:N7	2.83	0.47
3:AC:147:GLY:CA	3:AC:171:ARG:H	2.27	0.47
3:AC:183:TYR:HA	3:AC:199:VAL:O	2.14	0.47
3:AC:39:ARG:HG2	3:AC:54:ILE:CG1	2.45	0.47
3:AC:54:ILE:O	3:AC:54:ILE:HG13	2.15	0.47
4:AD:164:ARG:O	4:AD:166:LYS:N	2.47	0.47
5:AE:88:HIS:CE1	5:AE:137:ARG:HD3	2.50	0.47
7:AG:30:MET:CG	7:AG:31:VAL:N	2.78	0.47
8:AH:48:PHE:HB3	8:AH:60:LEU:HD23	1.97	0.47
9:AI:48:ARG:HD3	9:AI:49:GLN:N	2.30	0.47
9:AI:49:GLN:HE22	9:AI:79:ARG:NH1	2.12	0.47
10:AJ:27:GLU:C	10:AJ:29:ALA:H	2.17	0.47
13:AM:75:SER:O	13:AM:79:LEU:HD12	2.15	0.47
14:AN:31:SER:O	14:AN:32:ASP:CB	2.62	0.47
17:AQ:3:LYS:C	17:AQ:4:ILE:HD12	2.36	0.47
17:AQ:47:ASP:O	17:AQ:48:GLU:O	2.33	0.47
17:AQ:51:GLU:N	17:AQ:51:GLU:CD	2.67	0.47
21:AU:18:PHE:C	21:AU:19:LYS:HE2	2.35	0.47
11:AK:124:LYS:HA	21:AU:34:ARG:HG3	1.97	0.47
22:AV:21:A:N6	22:AV:46:G:N9	2.62	0.47
22:AV:63:G:N3	22:AV:63:G:H2'	2.30	0.47
22:AV:8:U:C2	22:AV:15:G:O6	2.67	0.47
1:BA:1303:C:N4	1:BA:1304:G:C6	2.82	0.47
1:BA:189:A:N6	1:BA:190:A:N1	2.63	0.47
1:BA:138:G:C4	1:BA:226:G:C2	3.03	0.47
1:BA:59:A:C5	1:BA:331:G:N2	2.83	0.47
1:BA:479:U:C2'	1:BA:480:U:H5'	2.45	0.47
1:BA:861:G:C4	1:BA:862:C:C6	3.03	0.47
2:BB:216:VAL:HA	2:BB:219:THR:CG2	2.45	0.47
5:BE:11:GLN:CA	5:BE:11:GLN:OE1	2.62	0.47
5:BE:55:VAL:N	5:BE:56:PRO:HD2	2.30	0.47
9:BI:42:THR:O	9:BI:43:ALA:C	2.52	0.47
10:BJ:98:VAL:O	10:BJ:99:GLN:HG2	2.15	0.47
12:BL:51:VAL:HG23	12:BL:52:CYS:N	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:32:ILE:HD13	13:BM:58:GLU:HB3	1.97	0.47
14:BN:35:ALA:HB1	14:BN:41:ARG:HB2	1.96	0.47
15:BO:58:MET:O	15:BO:60:SER:N	2.48	0.47
16:BP:39:PHE:CD2	16:BP:74:LEU:HD11	2.49	0.47
16:BP:4:ILE:HD12	16:BP:66:THR:O	2.15	0.47
18:BR:33:THR:HG23	18:BR:36:GLY:H	1.79	0.47
19:BS:39:ILE:O	19:BS:66:VAL:O	2.32	0.47
19:BS:50:VAL:CG2	19:BS:70:LEU:HD13	2.44	0.47
20:BT:8:LYS:HG2	20:BT:12:GLN:OE1	2.13	0.47
54:C3:49:VAL:HG12	54:C3:53:ASP:HB2	1.96	0.47
55:C4:19:ARG:O	55:C4:21:GLY:N	2.48	0.47
25:CA:1023:U:H2'	25:CA:1024:G:H5'	1.96	0.47
25:CA:1088:A:N3	25:CA:1088:A:H5''	2.30	0.47
25:CA:1270:C:H6	25:CA:1270:C:O5'	1.98	0.47
25:CA:1270:C:H5''	25:CA:1271:G:O5'	2.15	0.47
25:CA:128:C:H2'	25:CA:129:C:H6	1.80	0.47
25:CA:1482:G:C2	25:CA:1483:G:C5	3.02	0.47
25:CA:1616:A:H4'	25:CA:1617:C:OP2	2.15	0.47
25:CA:2102:G:C5	25:CA:2103:C:C4	3.03	0.47
25:CA:2255:G:H2'	25:CA:2256:G:C5'	2.45	0.47
25:CA:2348:U:H2'	25:CA:2349:G:O4'	2.14	0.47
25:CA:2668:G:C2'	25:CA:2669:G:O5'	2.62	0.47
25:CA:416:U:H3'	25:CA:416:U:H6	1.80	0.47
25:CA:60:G:O2'	25:CA:61:C:P	2.73	0.47
25:CA:777:G:O2'	25:CA:778:G:H5'	2.15	0.47
26:CB:34:A:O2'	26:CB:35:C:C5'	2.63	0.47
29:CE:198:GLU:O	29:CE:199:MET:C	2.54	0.47
30:CF:148:VAL:HG23	30:CF:148:VAL:O	2.15	0.47
32:CH:135:HIS:HB3	32:CH:138:VAL:HB	1.96	0.47
38:CN:36:THR:HG23	38:CN:37:THR:N	2.29	0.47
38:CN:49:GLU:HB2	38:CN:50:PRO:HD3	1.96	0.47
40:CP:102:ARG:HD3	40:CP:106:ALA:O	2.15	0.47
44:CT:8:LEU:HD22	49:CY:22:LEU:HA	1.95	0.47
49:CY:36:GLN:O	49:CY:37:LEU:CB	2.63	0.47
25:DA:1024:G:OP2	25:DA:1025:G:H3'	2.15	0.47
25:DA:1050:A:H2'	25:DA:1051:G:O4'	2.14	0.47
25:DA:1060:U:H4'	25:DA:1061:U:H3'	1.97	0.47
25:DA:976:G:H5'	25:DA:1156:A:N6	2.30	0.47
25:DA:1292:G:C2'	25:DA:1293:C:H5'	2.45	0.47
25:DA:1389:G:C2	25:DA:1390:U:C2	3.03	0.47
25:DA:1513:U:C2	25:DA:1514:G:C8	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1476:U:C5	25:DA:1514:G:N2	2.83	0.47
25:DA:161:A:H2	25:DA:2218:G:O4'	1.97	0.47
25:DA:1633:G:C6	25:DA:1635:A:C4	3.03	0.47
25:DA:1864:U:C2'	25:DA:1865:U:H5'	2.44	0.47
25:DA:1915:U:H2'	25:DA:1916:A:O5'	2.14	0.47
25:DA:2127:G:C2'	25:DA:2128:G:C8	2.97	0.47
25:DA:2183:A:H2'	25:DA:2184:A:C8	2.50	0.47
25:DA:2199:A:H2'	25:DA:2200:C:H6	1.80	0.47
25:DA:2345:G:C4	25:DA:2347:C:C5	3.03	0.47
25:DA:2714:G:H2'	25:DA:2715:C:H5'	1.97	0.47
25:DA:2836:U:H2'	25:DA:2837:A:C8	2.50	0.47
25:DA:2839:G:H2'	25:DA:2840:C:O5'	2.15	0.47
25:DA:81:G:O4'	25:DA:294:A:C2	2.68	0.47
25:DA:540:C:H2'	25:DA:541:A:H5'	1.95	0.47
25:DA:65:U:O2'	25:DA:66:C:H5'	2.15	0.47
56:DB:21:G:H2'	56:DB:22:U:O4'	2.15	0.47
56:DB:45:A:N1	56:DB:46:A:C4	2.83	0.47
25:DA:1972:G:OP2	27:DC:237:ARG:NH1	2.47	0.47
28:DD:24:VAL:HA	28:DD:189:VAL:O	2.15	0.47
30:DF:63:LYS:H	30:DF:63:LYS:HE2	1.80	0.47
33:DI:30:GLN:HG2	33:DI:31:GLY:N	2.30	0.47
36:DL:113:ALA:O	36:DL:114:GLY:O	2.33	0.47
39:DO:49:VAL:HG11	39:DO:81:ARG:HB3	1.97	0.47
39:DO:93:ASP:OD2	39:DO:95:SER:N	2.48	0.47
46:DV:80:HIS:HE1	46:DV:82:TYR:CE2	2.33	0.47
57:DW:64:LYS:HE3	57:DW:66:GLU:OE1	2.15	0.47
50:DZ:52:PHE:CE2	50:DZ:53:MET:HG2	2.50	0.47
1:AA:1000:A:C2	1:AA:1041:G:C2	3.03	0.46
1:AA:1162:C:C2	1:AA:1175:G:N2	2.83	0.46
1:AA:1239:A:N3	1:AA:1241:G:N1	2.63	0.46
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.97	0.46
1:AA:1538:C:O2'	1:AA:1539:C:H5'	2.13	0.46
1:AA:22:G:C6	1:AA:23:C:C4	3.03	0.46
1:AA:374:A:C5	1:AA:375:U:C5	3.04	0.46
1:AA:455:G:C2	1:AA:478:A:N1	2.83	0.46
1:AA:499:A:H61	1:AA:547:A:C5'	2.28	0.46
1:AA:659:U:O2'	1:AA:660:C:H5'	2.15	0.46
1:AA:75:G:H5'	1:AA:76:G:OP2	2.15	0.46
1:AA:790:A:C6	1:AA:791:G:C6	3.03	0.46
1:AA:833:G:H2'	1:AA:834:U:O4'	2.15	0.46
1:AA:92:U:H2'	1:AA:93:U:C6	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:69:VAL:O	2:AB:69:VAL:HG12	2.15	0.46
4:AD:197:HIS:O	4:AD:201:GLU:HG3	2.15	0.46
5:AE:19:ARG:HA	5:AE:31:SER:O	2.15	0.46
1:AA:932:C:N4	7:AG:2:ARG:NH2	2.63	0.46
8:AH:100:ILE:HD11	8:AH:128:VAL:HB	1.96	0.46
8:AH:82:LEU:HD22	8:AH:83:ARG:N	2.31	0.46
9:AI:98:ARG:HD3	9:AI:103:VAL:HG21	1.97	0.46
10:AJ:32:THR:HG23	10:AJ:83:THR:HA	1.97	0.46
11:AK:94:SER:O	11:AK:97:ARG:HB2	2.15	0.46
12:AL:37:TYR:O	12:AL:38:THR:CG2	2.63	0.46
12:AL:87:LYS:HB2	12:AL:87:LYS:HE3	1.78	0.46
13:AM:78:ARG:O	13:AM:82:LEU:HG	2.15	0.46
14:AN:22:LYS:HA	14:AN:25:GLU:OE2	2.15	0.46
14:AN:93:ILE:HA	14:AN:94:PRO:HD3	1.70	0.46
15:AO:66:LEU:HD13	15:AO:87:ARG:HH22	1.75	0.46
17:AQ:30:HIS:ND1	17:AQ:31:PRO:HD2	2.30	0.46
20:AT:67:HIS:HB3	20:AT:68:LYS:HG3	1.96	0.46
21:AU:32:ARG:HH11	21:AU:32:ARG:HG2	1.78	0.46
23:AX:13:A:O2'	23:AX:14:A:C8	2.68	0.46
1:BA:1309:G:C4	1:BA:1310:G:C8	3.03	0.46
1:BA:245:U:C2'	1:BA:245:U:O2	2.53	0.46
1:BA:472:U:H2'	1:BA:473:U:C6	2.50	0.46
1:BA:49:U:C2	1:BA:362:G:H1'	2.50	0.46
1:BA:580:C:C2'	1:BA:581:G:O5'	2.63	0.46
1:BA:72:A:N6	1:BA:73:C:N4	2.63	0.46
1:BA:895:G:C6	1:BA:896:C:C4	3.03	0.46
1:BA:981:U:H2'	1:BA:982:U:H5	1.79	0.46
3:BC:101:ASN:O	3:BC:102:ILE:HG13	2.15	0.46
3:BC:149:LYS:HB3	3:BC:168:ARG:HA	1.98	0.46
4:BD:30:LYS:HD3	4:BD:30:LYS:N	2.30	0.46
7:BG:148:LYS:CD	11:BK:60:PHE:CZ	2.99	0.46
7:BG:65:LEU:CD2	7:BG:69:ARG:CZ	2.94	0.46
9:BI:117:LEU:HD23	9:BI:120:ALA:C	2.35	0.46
10:BJ:48:ARG:NH1	10:BJ:48:ARG:HG2	2.30	0.46
12:BL:23:LEU:HG	12:BL:24:GLU:H	1.79	0.46
14:BN:20:PHE:HA	14:BN:24:ALA:HB2	1.97	0.46
53:C2:30:VAL:O	53:C2:31:LEU:C	2.52	0.46
25:CA:1140:C:H5'	34:CJ:26:GLY:HA3	1.97	0.46
25:CA:141:G:C2	44:CT:1:MET:HE3	2.50	0.46
25:CA:142:A:OP2	25:CA:142:A:C8	2.67	0.46
25:CA:1445:G:C2	25:CA:1446:C:C2	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:158:U:C2'	25:CA:159:G:H5'	2.46	0.46
25:CA:1607:C:H4'	25:CA:1608:A:C8	2.50	0.46
25:CA:2162:G:O2'	25:CA:2163:A:N7	2.47	0.46
25:CA:2223:G:C3'	25:CA:2224:G:H5'	2.45	0.46
25:CA:2782:G:H2'	25:CA:2783:U:H5'	1.97	0.46
25:CA:31:C:H2'	25:CA:32:C:C5'	2.45	0.46
25:CA:371:A:N6	25:CA:402:A:OP2	2.48	0.46
25:CA:449:A:C2'	25:CA:450:G:H5'	2.45	0.46
25:CA:490:C:H4'	25:CA:491:G:OP2	2.15	0.46
25:CA:547:A:H8	25:CA:548:G:N3	2.13	0.46
25:CA:586:A:C2	25:CA:1254:A:C2	3.04	0.46
25:CA:84:A:H62	25:CA:101:A:H2	1.63	0.46
27:CC:10:PRO:O	27:CC:11:GLY:C	2.52	0.46
30:CF:26:GLN:O	30:CF:27:VAL:C	2.52	0.46
31:CG:117:PRO:HD2	31:CG:120:ILE:HB	1.97	0.46
33:CI:102:ARG:HA	33:CI:141:ASP:OD2	2.14	0.46
36:CL:143:GLU:O	36:CL:143:GLU:HG3	2.15	0.46
48:CX:26:ARG:HG3	48:CX:27:ARG:N	2.30	0.46
25:DA:2370:G:H4'	52:D1:43:ARG:NH1	2.31	0.46
53:D2:31:LEU:O	53:D2:34:ARG:N	2.48	0.46
25:DA:1071:G:O2'	25:DA:1072:C:H5''	2.15	0.46
25:DA:1342:A:C2	25:DA:1345:C:C5	3.04	0.46
25:DA:1455:G:C6	25:DA:1456:G:C8	3.03	0.46
25:DA:1474:U:C5	25:DA:1475:G:C2	3.03	0.46
25:DA:1514:G:H5''	25:DA:1515:A:OP1	2.15	0.46
25:DA:1556:C:C2'	25:DA:1557:C:C5'	2.94	0.46
25:DA:1565:C:C5	25:DA:1567:G:C6	3.02	0.46
25:DA:1688:U:H1'	25:DA:1701:A:C6	2.49	0.46
25:DA:2004:G:C6	25:DA:2005:A:C4	3.03	0.46
25:DA:2871:U:O2	25:DA:2871:U:H2'	2.13	0.46
25:DA:371:A:N6	25:DA:401:A:H3'	2.31	0.46
25:DA:404:A:C2	25:DA:406:G:C2	3.04	0.46
25:DA:417:C:C2	25:DA:418:C:C6	3.03	0.46
25:DA:709:U:O2'	25:DA:710:U:H5'	2.15	0.46
25:DA:980:A:N7	25:DA:1136:G:H5''	2.31	0.46
31:DG:108:PHE:CE2	31:DG:151:ARG:NH2	2.83	0.46
32:DH:69:ALA:HB2	32:DH:138:VAL:HG11	1.97	0.46
32:DH:142:VAL:HG12	32:DH:143:ILE:H	1.80	0.46
25:DA:1131:G:C4	34:DJ:77:HIS:CD2	3.02	0.46
42:DR:19:THR:HA	42:DR:96:VAL:O	2.14	0.46
45:DU:44:HIS:HD2	45:DU:57:ILE:HG12	1.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DX:11:PRO:HB3	48:DX:29:LEU:CD2	2.46	0.46
48:DX:70:LEU:HB3	48:DX:75:GLU:HG3	1.97	0.46
1:AA:1213:A:C4	1:AA:1215:G:C8	3.02	0.46
1:AA:1356:G:N2	1:AA:1357:A:C4	2.83	0.46
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.15	0.46
1:AA:191:G:C2'	1:AA:192:A:H5'	2.45	0.46
1:AA:198:G:C6	1:AA:220:G:C4	3.03	0.46
1:AA:374:A:C4	1:AA:375:U:C5	3.03	0.46
1:AA:452:A:N7	1:AA:453:G:C8	2.83	0.46
1:AA:501:C:O2'	1:AA:502:A:H5'	2.15	0.46
1:AA:511:C:C2	1:AA:512:U:C6	3.04	0.46
1:AA:643:C:O5'	1:AA:643:C:H6	1.98	0.46
1:AA:841:C:C6	1:AA:843:U:OP2	2.69	0.46
3:AC:6:PRO:HA	3:AC:174:LEU:HD11	1.97	0.46
5:AE:40:ASP:OD1	5:AE:42:ASN:N	2.49	0.46
8:AH:105:THR:HG21	8:AH:120:LEU:CD1	2.45	0.46
8:AH:23:ALA:HA	8:AH:60:LEU:O	2.15	0.46
8:AH:40:LYS:N	8:AH:45:ILE:HG12	2.29	0.46
8:AH:46:GLU:HA	8:AH:63:LYS:HG2	1.98	0.46
14:AN:44:ALA:HA	14:AN:47:LYS:HG3	1.97	0.46
14:AN:57:PRO:C	14:AN:59:ARG:H	2.18	0.46
16:AP:79:ASN:CB	16:AP:82:ALA:O	2.63	0.46
18:AR:72:ARG:HG3	18:AR:72:ARG:HH11	1.80	0.46
19:AS:43:MET:CE	19:AS:48:ILE:HG12	2.45	0.46
1:AA:1539:C:H5''	21:AU:17:ARG:HE	1.79	0.46
21:AU:32:ARG:HH11	21:AU:32:ARG:CG	2.28	0.46
11:AK:124:LYS:HE3	21:AU:34:ARG:NH2	2.31	0.46
1:BA:1015:G:H2'	1:BA:1016:A:C8	2.50	0.46
1:BA:1267:C:H2'	1:BA:1268:G:C5'	2.46	0.46
1:BA:1275:A:C6	1:BA:1276:G:C5	3.03	0.46
1:BA:152:A:N1	1:BA:170:U:O2	2.48	0.46
1:BA:176:C:C2'	1:BA:177:G:O5'	2.63	0.46
1:BA:248:C:C4	1:BA:249:U:C4	3.03	0.46
1:BA:111:G:C6	1:BA:330:C:N4	2.84	0.46
1:BA:780:A:C2	1:BA:803:G:C6	3.03	0.46
2:BB:93:HIS:CD2	2:BB:145:ASN:HB2	2.50	0.46
2:BB:18:GLN:O	2:BB:37:VAL:HG22	2.15	0.46
2:BB:53:LEU:CD2	2:BB:212:TYR:OH	2.63	0.46
2:BB:67:LEU:HD21	2:BB:91:VAL:CG2	2.45	0.46
3:BC:64:ARG:O	3:BC:65:VAL:CB	2.63	0.46
4:BD:27:ILE:O	4:BD:28:ASP:C	2.54	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:40:HIS:O	4:BD:42:ALA:N	2.48	0.46
7:BG:30:MET:SD	7:BG:33:GLY:HA2	2.54	0.46
7:BG:96:ASN:HA	7:BG:99:ALA:HB2	1.97	0.46
8:BH:82:LEU:CD1	8:BH:82:LEU:O	2.63	0.46
9:BI:119:LYS:O	9:BI:120:ALA:CB	2.63	0.46
11:BK:67:GLU:O	11:BK:70:ALA:HB3	2.15	0.46
12:BL:73:LEU:H	12:BL:73:LEU:HD23	1.80	0.46
20:BT:35:TYR:CD2	20:BT:36:ALA:CA	2.98	0.46
52:C1:33:LEU:HB3	52:C1:51:ALA:HB2	1.96	0.46
25:CA:1084:A:C5	25:CA:1085:A:N6	2.82	0.46
25:CA:1096:A:C5	25:CA:1097:U:C5	3.04	0.46
25:CA:1413:A:C2	25:CA:1414:C:O2	2.68	0.46
25:CA:1413:A:C2	25:CA:1590:A:C2	3.02	0.46
25:CA:1486:U:C2'	25:CA:1487:U:H5'	2.45	0.46
25:CA:1801:A:C8	25:CA:2203:U:H2'	2.50	0.46
25:CA:1871:A:C8	25:CA:1872:A:C2	3.03	0.46
25:CA:2046:G:C2'	25:CA:2047:C:H5'	2.45	0.46
25:CA:2849:U:C6	25:CA:2867:G:N2	2.83	0.46
25:CA:388:G:H5'	25:CA:389:G:OP2	2.15	0.46
25:CA:415:A:H8	25:CA:415:A:O5'	1.98	0.46
27:CC:195:GLY:O	27:CC:196:ASN:C	2.52	0.46
27:CC:77:VAL:HG12	27:CC:111:ALA:HA	1.97	0.46
30:CF:36:ASN:CG	30:CF:37:MET:N	2.68	0.46
30:CF:51:ASN:O	30:CF:52:ALA:C	2.53	0.46
30:CF:40:GLY:HA2	30:CF:84:ILE:HD12	1.97	0.46
33:CI:57:VAL:HB	33:CI:68:PHE:HB2	1.97	0.46
39:CO:14:ALA:O	39:CO:18:LEU:CD2	2.63	0.46
26:CB:29:A:OP2	39:CO:31:THR:HG23	2.14	0.46
42:CR:51:VAL:CB	42:CR:52:PRO:CD	2.92	0.46
43:CS:20:VAL:HG11	43:CS:47:VAL:HG11	1.97	0.46
46:CV:21:ARG:C	46:CV:23:ALA:H	2.18	0.46
25:CA:2333:A:P	47:CW:73:ARG:HH22	2.37	0.46
52:D1:37:LYS:HB2	52:D1:48:TYR:CD2	2.49	0.46
25:DA:1406:U:H2'	25:DA:1407:G:H8	1.79	0.46
25:DA:1504:A:H3'	25:DA:1505:A:H8	1.80	0.46
25:DA:164:C:H2'	25:DA:165:A:C5'	2.44	0.46
25:DA:2283:C:H2'	25:DA:2284:A:O4'	2.15	0.46
25:DA:237:C:H2'	25:DA:238:C:H6	1.80	0.46
25:DA:2482:A:H2'	25:DA:2483:C:H6	1.80	0.46
25:DA:2803:G:C2'	25:DA:2804:U:O5'	2.62	0.46
25:DA:2843:G:H2'	25:DA:2844:G:O4'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2870:C:C4	25:DA:2871:U:C4	3.03	0.46
25:DA:648:G:H1'	25:DA:2351:G:OP1	2.15	0.46
25:DA:669:G:H2'	25:DA:670:A:N7	2.31	0.46
56:DB:54:G:H2'	56:DB:54:G:N3	2.30	0.46
28:DD:202:ILE:HG22	28:DD:202:ILE:O	2.16	0.46
29:DE:1:MET:HG2	29:DE:16:GLU:HA	1.96	0.46
30:DF:105:ILE:CG1	30:DF:106:ALA:N	2.78	0.46
30:DF:11:VAL:HG12	30:DF:15:LEU:HD11	1.96	0.46
30:DF:150:GLY:O	30:DF:151:LEU:HB3	2.15	0.46
31:DG:23:ILE:HD12	31:DG:71:LEU:HD21	1.96	0.46
33:DI:20:SER:O	33:DI:24:GLY:CA	2.64	0.46
36:DL:76:GLU:O	36:DL:76:GLU:HG3	2.14	0.46
37:DM:106:ASP:OD1	37:DM:107:GLY:N	2.48	0.46
38:DN:98:LEU:HD13	51:D0:53:VAL:HG21	1.96	0.46
39:DO:72:ALA:HA	39:DO:109:ALA:HB2	1.97	0.46
40:DP:51:ASN:N	40:DP:51:ASN:ND2	2.63	0.46
25:DA:2849:U:P	40:DP:92:ARG:HH21	2.38	0.46
41:DQ:16:ILE:O	41:DQ:19:GLN:HB2	2.15	0.46
44:DT:18:GLU:O	44:DT:19:LYS:C	2.52	0.46
46:DV:43:ASP:C	46:DV:43:ASP:OD1	2.53	0.46
56:DB:12:C:N3	57:DW:70:PRO:HB3	2.30	0.46
49:DY:8:GLU:HB3	49:DY:12:GLU:HB3	1.98	0.46
1:AA:1020:G:C2	1:AA:1021:A:C5	3.03	0.46
1:AA:1156:G:H5''	1:AA:1157:A:P	2.55	0.46
1:AA:1204:A:C4	1:AA:1205:U:C6	3.03	0.46
1:AA:1216:A:H2'	1:AA:1217:C:C6	2.50	0.46
1:AA:1238:A:H2	1:AA:1241:G:N3	2.11	0.46
1:AA:1291:U:O5'	1:AA:1291:U:H6	1.97	0.46
1:AA:1291:U:OP1	7:AG:36:SER:OG	2.30	0.46
1:AA:1313:U:C2	1:AA:1314:C:C5	3.02	0.46
1:AA:978:A:C6	1:AA:1319:A:C2	3.03	0.46
1:AA:1389:C:C2'	1:AA:1390:U:H5'	2.45	0.46
1:AA:294:U:H2'	1:AA:295:C:H6	1.78	0.46
1:AA:490:C:H2'	1:AA:491:G:C8	2.50	0.46
1:AA:579:A:H2'	1:AA:580:C:C6	2.50	0.46
1:AA:754:C:H3'	1:AA:754:C:O2	2.16	0.46
1:AA:791:G:C5	1:AA:792:A:N7	2.83	0.46
2:AB:32:GLY:HA3	2:AB:39:ILE:H	1.80	0.46
3:AC:68:HIS:HA	3:AC:103:ALA:O	2.15	0.46
3:AC:55:VAL:HG12	3:AC:56:ILE:N	2.30	0.46
3:AC:60:ALA:O	3:AC:62:SER:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:146:GLU:HA	4:AD:149:LYS:CD	2.46	0.46
1:AA:413:G:N1	4:AD:32:LYS:HD3	2.31	0.46
4:AD:54:LEU:HD23	4:AD:55:ARG:CA	2.46	0.46
5:AE:116:VAL:HG23	5:AE:116:VAL:O	2.15	0.46
6:AF:99:ALA:O	6:AF:100:SER:CB	2.63	0.46
7:AG:85:GLN:HA	7:AG:85:GLN:OE1	2.15	0.46
9:AI:7:GLY:HA3	9:AI:84:ARG:O	2.16	0.46
12:AL:49:ARG:HG3	12:AL:89:LEU:HD11	1.96	0.46
16:AP:18:GLN:HE21	16:AP:35:ARG:HE	1.63	0.46
19:AS:13:HIS:O	19:AS:17:LYS:HG3	2.15	0.46
19:AS:43:MET:O	19:AS:44:ILE:C	2.54	0.46
1:BA:1012:A:C2	1:BA:1018:G:N1	2.83	0.46
1:BA:1130:A:H2'	1:BA:1131:G:H5'	1.97	0.46
1:BA:175:C:H2'	1:BA:176:C:H6	1.80	0.46
1:BA:782:A:H2'	1:BA:783:C:O4'	2.15	0.46
1:BA:844:G:N7	1:BA:844:G:OP2	2.49	0.46
1:BA:9:G:C4	1:BA:10:A:C8	3.04	0.46
2:BB:20:ARG:HA	2:BB:20:ARG:CZ	2.45	0.46
2:BB:209:VAL:CG2	2:BB:210:THR:N	2.79	0.46
2:BB:216:VAL:HA	2:BB:219:THR:HG21	1.97	0.46
3:BC:180:ASP:O	3:BC:202:PHE:HA	2.16	0.46
3:BC:179:ALA:HB1	3:BC:202:PHE:HE1	1.79	0.46
3:BC:63:ILE:HG22	3:BC:96:VAL:HG23	1.98	0.46
4:BD:191:SER:OG	4:BD:192:ALA:N	2.41	0.46
4:BD:3:TYR:C	4:BD:4:LEU:HD13	2.36	0.46
4:BD:45:PRO:O	4:BD:47:LEU:HB2	2.15	0.46
5:BE:114:LEU:O	5:BE:119:VAL:HG23	2.15	0.46
5:BE:153:ALA:O	5:BE:156:ARG:O	2.32	0.46
7:BG:145:GLU:C	7:BG:147:ASN:H	2.18	0.46
7:BG:68:VAL:HG23	7:BG:99:ALA:CB	2.45	0.46
9:BI:117:LEU:HD23	9:BI:120:ALA:O	2.15	0.46
9:BI:8:THR:HB	9:BI:84:ARG:NH1	2.31	0.46
15:BO:81:ILE:HG13	15:BO:82:GLU:N	2.30	0.46
1:BA:1312:G:N7	19:BS:2:ARG:N	2.63	0.46
20:BT:53:MET:CE	20:BT:57:VAL:CG2	2.93	0.46
1:BA:1540:U:H4'	21:BU:17:ARG:CG	2.43	0.46
21:BU:32:ARG:CG	21:BU:32:ARG:O	2.62	0.46
52:C1:50:GLU:OE2	52:C1:52:LYS:HD3	2.15	0.46
25:CA:1060:U:O4'	25:CA:1062:G:OP2	2.34	0.46
25:CA:1094:U:O4	25:CA:1097:U:OP2	2.34	0.46
25:CA:1217:U:O2	25:CA:1217:U:H2'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1274:A:N1	25:CA:1644:C:O2'	2.44	0.46
25:CA:1917:U:C4	25:CA:1918:A:N7	2.83	0.46
25:CA:2174:C:H2'	25:CA:2175:C:H6	1.80	0.46
25:CA:2180:U:H3'	25:CA:2181:U:C6	2.51	0.46
25:CA:2887:A:H5'	25:CA:2888:C:OP2	2.15	0.46
27:CC:5:CYS:SG	27:CC:15:VAL:HG12	2.55	0.46
27:CC:250:GLN:HB3	27:CC:254:LYS:HB2	1.96	0.46
28:CD:207:VAL:HG13	28:CD:208:LYS:N	2.29	0.46
29:CE:84:THR:HG22	29:CE:85:PHE:CD2	2.50	0.46
30:CF:107:VAL:N	30:CF:108:PRO:HD2	2.30	0.46
30:CF:46:LYS:C	30:CF:48:LEU:H	2.18	0.46
33:CI:50:LYS:HD3	33:CI:50:LYS:N	2.31	0.46
35:CK:19:VAL:CG1	35:CK:41:ILE:HD13	2.45	0.46
35:CK:21:CYS:HA	35:CK:41:ILE:HG22	1.97	0.46
39:CO:87:ILE:HG22	39:CO:88:LYS:N	2.30	0.46
52:D1:50:GLU:HG3	52:D1:51:ALA:N	2.29	0.46
25:DA:1017:G:C2'	25:DA:1018:U:H5'	2.45	0.46
25:DA:1050:A:H2'	25:DA:1051:G:C8	2.50	0.46
25:DA:1097:U:H2'	25:DA:1098:A:H5'	1.97	0.46
25:DA:1271:G:H5''	25:DA:1272:A:OP1	2.14	0.46
25:DA:1315:C:N3	25:DA:1316:U:C5	2.84	0.46
25:DA:1362:C:H2'	25:DA:1363:C:H5'	1.97	0.46
25:DA:1412:U:O2	25:DA:1591:A:N1	2.49	0.46
25:DA:1816:C:C5	27:DC:61:TYR:CE1	3.03	0.46
25:DA:1866:A:C6	25:DA:1876:A:N7	2.83	0.46
25:DA:2310:C:C2'	25:DA:2311:A:O5'	2.51	0.46
25:DA:261:G:C2	25:DA:262:A:C8	3.04	0.46
25:DA:2738:A:N1	25:DA:2739:U:C2	2.83	0.46
25:DA:359:G:C2'	25:DA:360:U:H5'	2.46	0.46
25:DA:640:C:H2'	25:DA:641:U:C6	2.51	0.46
25:DA:748:G:O6	25:DA:751:A:H4'	2.14	0.46
27:DC:120:ASP:CG	27:DC:121:ALA:H	2.18	0.46
27:DC:124:LYS:HB2	27:DC:125:PRO:CD	2.45	0.46
28:DD:97:SER:O	28:DD:99:GLU:N	2.48	0.46
30:DF:19:PHE:N	30:DF:19:PHE:CD1	2.82	0.46
30:DF:69:ALA:HB3	30:DF:80:GLN:HA	1.97	0.46
32:DH:30:LEU:C	32:DH:31:VAL:O	2.53	0.46
32:DH:62:LEU:HD13	32:DH:63:ALA:CA	2.46	0.46
33:DI:45:THR:O	33:DI:49:GLU:N	2.49	0.46
34:DJ:105:VAL:HG11	34:DJ:122:LEU:HD23	1.97	0.46
34:DJ:66:GLY:C	34:DJ:68:LYS:H	2.19	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DJ:80:HIS:C	34:DJ:81:ILE:CG2	2.84	0.46
36:DL:54:GLN:O	36:DL:55:MET:C	2.54	0.46
38:DN:87:PHE:CZ	38:DN:94:TYR:HB3	2.50	0.46
45:DU:17:ASP:O	45:DU:18:LYS:C	2.53	0.46
45:DU:35:VAL:O	45:DU:36:GLU:C	2.54	0.46
45:DU:7:ASP:O	45:DU:8:ASP:CB	2.63	0.46
57:DW:46:ASN:C	57:DW:58:LYS:HB2	2.36	0.46
1:AA:1141:C:O2	1:AA:1142:G:C8	2.68	0.46
1:AA:1451:U:C3'	1:AA:1452:C:H5'	2.46	0.46
1:AA:218:U:C2'	1:AA:219:U:H5'	2.46	0.46
1:AA:258:G:C2	1:AA:259:G:H1'	2.50	0.46
1:AA:276:G:C5	1:AA:277:C:C5	3.03	0.46
1:AA:610:U:H2'	1:AA:611:C:C6	2.51	0.46
1:AA:654:G:C2'	1:AA:655:A:H5'	2.46	0.46
1:AA:97:G:C2'	1:AA:98:A:O5'	2.63	0.46
3:AC:143:LEU:N	3:AC:143:LEU:HD13	2.31	0.46
4:AD:123:MET:HE2	4:AD:145:ARG:HD2	1.97	0.46
9:AI:23:GLY:H	9:AI:60:LEU:HA	1.81	0.46
11:AK:73:VAL:O	11:AK:75:GLU:N	2.48	0.46
12:AL:28:GLN:HB2	12:AL:81:ILE:O	2.14	0.46
13:AM:110:GLY:O	13:AM:111:PRO:C	2.54	0.46
13:AM:94:LEU:HB3	13:AM:95:PRO:HD2	1.97	0.46
1:AA:1219:A:OP1	14:AN:53:ARG:NH1	2.49	0.46
23:AX:7:G:O2'	23:AX:8:A:H5'	2.15	0.46
1:BA:1287:A:N6	1:BA:1288:A:N6	2.63	0.46
1:BA:1291:U:H2'	1:BA:1292:G:H8	1.80	0.46
1:BA:152:A:C6	1:BA:170:U:O2	2.68	0.46
1:BA:429:U:H4'	1:BA:430:A:OP1	2.14	0.46
1:BA:455:G:H2'	1:BA:456:A:H5'	1.97	0.46
1:BA:549:C:H2'	1:BA:550:G:O5'	2.15	0.46
1:BA:600:A:C4	1:BA:639:G:C2	3.04	0.46
1:BA:747:A:H2'	1:BA:748:G:O4'	2.15	0.46
2:BB:157:PRO:O	2:BB:180:ILE:HD12	2.15	0.46
3:BC:131:ARG:HD3	3:BC:135:ARG:HH21	1.80	0.46
5:BE:56:PRO:O	5:BE:59:ILE:HD11	2.15	0.46
5:BE:82:HIS:ND1	8:BH:95:MET:HE2	2.29	0.46
6:BF:20:GLY:O	6:BF:24:ARG:HB2	2.16	0.46
7:BG:26:VAL:HG23	7:BG:27:ASN:N	2.31	0.46
9:BI:16:ALA:HB2	9:BI:66:VAL:CB	2.44	0.46
10:BJ:7:ARG:HD2	10:BJ:73:LEU:HD11	1.96	0.46
14:BN:19:TYR:HD1	14:BN:19:TYR:N	2.13	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:34:VAL:O	20:BT:36:ALA:N	2.48	0.46
20:BT:66:ILE:HG13	20:BT:70:LYS:HB3	1.97	0.46
20:BT:68:LYS:CB	20:BT:69:ASN:OD1	2.63	0.46
51:C0:29:VAL:HG12	51:C0:34:GLY:HA2	1.97	0.46
51:C0:52:LYS:HE2	51:C0:55:ALA:HB2	1.98	0.46
25:CA:1121:C:C2'	25:CA:1122:G:O5'	2.63	0.46
25:CA:1168:G:C5'	25:CA:1168:G:H8	2.29	0.46
25:CA:132:G:H2'	25:CA:133:U:C6	2.50	0.46
25:CA:1348:C:H2'	25:CA:1349:C:C5'	2.45	0.46
25:CA:1581:G:C2'	25:CA:1582:C:H5'	2.45	0.46
25:CA:1664:A:C2	25:CA:2726:A:C8	3.03	0.46
25:CA:1808:A:O2'	48:CX:2:ARG:NH1	2.49	0.46
25:CA:2258:C:O2'	25:CA:2426:A:H5''	2.16	0.46
25:CA:2414:G:C2'	25:CA:2415:G:H5'	2.46	0.46
25:CA:2544:G:H2'	25:CA:2545:G:O5'	2.15	0.46
25:CA:752:A:H61	25:CA:2609:U:H3	1.58	0.46
25:CA:547:A:C8	25:CA:548:G:C1'	2.99	0.46
25:CA:622:G:H2'	25:CA:623:C:C6	2.50	0.46
25:CA:666:A:H2'	25:CA:667:U:H6	1.79	0.46
25:CA:772:C:H2'	25:CA:773:U:H6	1.79	0.46
25:CA:823:C:C4	25:CA:824:U:C4	3.04	0.46
25:CA:927:A:H2'	25:CA:928:A:C8	2.49	0.46
27:CC:105:ALA:O	27:CC:195:GLY:CA	2.63	0.46
27:CC:7:PRO:HA	27:CC:13:ARG:HA	1.97	0.46
32:CH:29:PHE:CD2	32:CH:30:LEU:HD23	2.50	0.46
32:CH:72:ILE:HD11	32:CH:132:PHE:CD2	2.51	0.46
33:CI:101:SER:HB3	33:CI:104:GLN:HG3	1.96	0.46
33:CI:102:ARG:HB3	33:CI:141:ASP:O	2.15	0.46
34:CJ:4:PHE:CG	34:CJ:5:THR:N	2.83	0.46
34:CJ:77:HIS:HD2	34:CJ:79:GLY:HA2	1.80	0.46
37:CM:50:ARG:CG	37:CM:51:ARG:N	2.78	0.46
39:CO:56:LYS:HA	39:CO:59:ALA:HB3	1.97	0.46
41:CQ:105:PHE:CE1	41:CQ:109:VAL:CG2	2.98	0.46
41:CQ:90:ASP:OD1	42:CR:11:GLN:HG3	2.16	0.46
43:CS:109:ASP:O	43:CS:110:ARG:O	2.34	0.46
45:CU:86:PHE:CE1	45:CU:91:LYS:HB2	2.50	0.46
47:CW:43:ALA:HB1	47:CW:47:VAL:O	2.15	0.46
49:CY:22:LEU:CG	49:CY:23:ARG:H	2.28	0.46
51:D0:53:VAL:O	51:D0:54:ILE:HB	2.15	0.46
25:DA:1045:C:H3'	25:DA:1046:A:H5'	1.96	0.46
25:DA:1097:U:O2'	33:DI:8:VAL:HG11	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1160:G:C6	25:DA:1161:C:C4	3.04	0.46
25:DA:1343:G:N2	25:DA:1405:U:C4	2.83	0.46
25:DA:1799:G:OP1	27:DC:257:ARG:CD	2.59	0.46
25:DA:2026:U:C4	25:DA:2027:G:N7	2.83	0.46
25:DA:2121:G:C2	25:DA:2178:C:N3	2.83	0.46
25:DA:2165:C:C2'	25:DA:2165:C:O2	2.62	0.46
25:DA:2182:U:O2	25:DA:2182:U:H2'	2.14	0.46
25:DA:2287:A:N7	25:DA:2289:G:C8	2.84	0.46
25:DA:2371:G:C6	25:DA:2372:U:C5	3.03	0.46
25:DA:2392:A:O3'	54:D3:26:ALA:HB1	2.15	0.46
25:DA:2516:A:O2'	25:DA:2517:C:H5'	2.15	0.46
25:DA:301:G:H5'	25:DA:317:G:H22	1.78	0.46
25:DA:55:G:O2'	25:DA:56:A:C5'	2.62	0.46
25:DA:65:U:C2	25:DA:66:C:C6	3.04	0.46
25:DA:840:C:H2'	25:DA:841:G:O4'	2.16	0.46
56:DB:34:A:C2'	56:DB:35:C:OP2	2.64	0.46
31:DG:104:LEU:O	31:DG:111:PRO:HB3	2.16	0.46
31:DG:104:LEU:HB2	31:DG:112:VAL:HB	1.96	0.46
31:DG:84:LYS:HB2	31:DG:132:LEU:HD11	1.97	0.46
32:DH:104:THR:HG22	32:DH:109:GLU:HA	1.98	0.46
32:DH:63:ALA:HB1	32:DH:66:ASN:HD22	1.80	0.46
33:DI:135:MET:HG3	33:DI:137:LEU:HD11	1.97	0.46
33:DI:71:LYS:HG2	33:DI:115:ASP:OD2	2.16	0.46
36:DL:2:ARG:C	36:DL:5:THR:HG23	2.36	0.46
38:DN:52:ILE:O	38:DN:55:ALA:N	2.49	0.46
38:DN:52:ILE:O	38:DN:53:THR:C	2.54	0.46
42:DR:66:HIS:CE1	42:DR:94:THR:HG21	2.50	0.46
44:DT:2:ILE:CA	44:DT:3:ARG:HB2	2.45	0.46
49:DY:56:LEU:O	49:DY:57:LEU:HB2	2.14	0.46
1:AA:1066:C:H5'	1:AA:1067:A:OP2	2.16	0.46
1:AA:1271:A:C5'	1:AA:1314:C:C5'	2.93	0.46
1:AA:4:U:O2	1:AA:4:U:H3'	2.15	0.46
1:AA:739:C:HO2'	15:AO:41:HIS:HD1	1.63	0.46
1:AA:812:G:OP1	1:AA:903:G:H1'	2.15	0.46
1:AA:987:G:C2	1:AA:988:G:C4	3.04	0.46
2:AB:14:HIS:HB2	2:AB:202:ASN:HB3	1.97	0.46
3:AC:35:ASP:O	3:AC:38:VAL:HG22	2.16	0.46
3:AC:61:LYS:HA	3:AC:61:LYS:HE3	1.97	0.46
4:AD:149:LYS:O	4:AD:151:GLN:N	2.48	0.46
4:AD:154:VAL:O	4:AD:157:ALA:HB3	2.15	0.46
4:AD:53:GLN:HE21	4:AD:202:LEU:CA	2.28	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:56:GLU:OE2	4:AD:194:ILE:HA	2.15	0.46
4:AD:54:LEU:CD2	4:AD:58:GLN:HB2	2.46	0.46
7:AG:65:LEU:C	7:AG:67:ASN:N	2.68	0.46
9:AI:29:ILE:HG22	9:AI:64:ILE:HD11	1.96	0.46
9:AI:9:GLY:HA3	9:AI:80:HIS:HB3	1.98	0.46
9:AI:93:LEU:HD12	9:AI:94:ARG:N	2.29	0.46
12:AL:89:LEU:CD1	12:AL:89:LEU:N	2.78	0.46
1:BA:1134:G:C2	1:BA:1141:C:N3	2.84	0.46
1:BA:1182:G:H5''	1:BA:1184:G:H5''	1.98	0.46
1:BA:1286:U:H5'	1:BA:1287:A:OP2	2.16	0.46
1:BA:1445:U:H2'	1:BA:1446:A:OP2	2.15	0.46
1:BA:1537:U:H2'	1:BA:1537:U:O2	2.14	0.46
1:BA:243:A:H4'	1:BA:244:U:H5''	1.97	0.46
1:BA:26:A:H61	1:BA:558:G:C2'	2.29	0.46
1:BA:404:G:C2	1:BA:405:U:C2	3.04	0.46
1:BA:543:U:C2	1:BA:544:G:C8	3.03	0.46
2:BB:202:ASN:HD22	2:BB:205:ALA:HB2	1.80	0.46
4:BD:47:LEU:HD21	4:BD:51:GLY:C	2.35	0.46
6:BF:43:GLY:O	6:BF:58:HIS:CD2	2.69	0.46
6:BF:61:LEU:CD1	6:BF:62:MET:H	2.29	0.46
6:BF:74:LEU:C	6:BF:76:THR:N	2.67	0.46
7:BG:103:ILE:O	7:BG:106:ALA:HB3	2.15	0.46
7:BG:36:SER:O	7:BG:39:GLU:HG2	2.15	0.46
8:BH:78:SER:HB3	8:BH:124:ILE:O	2.15	0.46
8:BH:88:LYS:HA	8:BH:91:LEU:HD12	1.97	0.46
1:BA:1126:U:O4	10:BJ:73:LEU:HD12	2.15	0.46
11:BK:13:LYS:HD3	11:BK:13:LYS:O	2.15	0.46
14:BN:19:TYR:O	14:BN:22:LYS:HB3	2.15	0.46
15:BO:87:ARG:O	15:BO:87:ARG:CG	2.63	0.46
16:BP:18:GLN:O	16:BP:20:VAL:HG12	2.15	0.46
16:BP:52:LEU:CD2	16:BP:54:LEU:CD2	2.94	0.46
16:BP:6:LEU:CD1	16:BP:71:VAL:HG23	2.46	0.46
17:BQ:7:LEU:HB2	17:BQ:60:ILE:CG2	2.45	0.46
17:BQ:46:HIS:HA	17:BQ:70:LYS:HE3	1.98	0.46
21:BU:23:GLU:CA	21:BU:27:VAL:HG22	2.46	0.46
25:CA:245:G:O6	54:C3:7:ARG:HD3	2.15	0.46
55:C4:2:LYS:HB2	55:C4:2:LYS:NZ	2.31	0.46
25:CA:1085:A:C2'	25:CA:1086:A:C2	2.91	0.46
25:CA:1484:U:O2	25:CA:1484:U:C2'	2.63	0.46
25:CA:164:C:C2'	25:CA:165:A:H5'	2.46	0.46
25:CA:1671:U:O5'	25:CA:1671:U:H6	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1710:G:H4'	25:CA:2858:C:O2	2.15	0.46
25:CA:1866:A:C2	25:CA:1876:A:C5	3.03	0.46
25:CA:2111:U:O2	25:CA:2118:U:O2	2.33	0.46
25:CA:2127:G:C2	25:CA:2161:C:O2	2.68	0.46
25:CA:2313:C:C6	25:CA:2313:C:C3'	2.98	0.46
25:CA:2648:G:H2'	25:CA:2649:C:H6	1.78	0.46
25:CA:2799:A:O2'	25:CA:2800:A:C5'	2.63	0.46
25:CA:368:A:C8	25:CA:368:A:H3'	2.51	0.46
25:CA:417:C:C2	25:CA:418:C:C5	3.03	0.46
25:CA:39:G:H1'	29:CE:43:THR:HG21	1.96	0.46
31:CG:64:ALA:O	31:CG:67:ALA:N	2.48	0.46
1:BA:368:U:N3	32:CH:91:PHE:HB3	2.30	0.46
33:CI:18:ASN:ND2	33:CI:27:LEU:HD11	2.30	0.46
25:CA:2278:A:OP1	37:CM:10:ARG:NH2	2.48	0.46
37:CM:16:ARG:N	37:CM:16:ARG:HD3	2.31	0.46
39:CO:31:THR:O	39:CO:32:PRO:C	2.52	0.46
40:CP:24:THR:HB	40:CP:87:ARG:HB3	1.97	0.46
44:CT:2:ILE:HA	44:CT:3:ARG:C	2.36	0.46
49:CY:17:GLU:HG3	49:CY:18:LEU:N	2.30	0.46
25:DA:1105:U:C2	25:DA:1106:G:N7	2.83	0.46
25:DA:1240:U:O2'	25:DA:1241:A:O5'	2.31	0.46
25:DA:1281:G:N2	25:DA:1290:C:C2	2.84	0.46
25:DA:1353:A:N6	25:DA:1354:A:N1	2.64	0.46
25:DA:1421:G:C8	25:DA:1421:G:O5'	2.69	0.46
25:DA:1838:C:N4	25:DA:1898:U:H2'	2.31	0.46
25:DA:2091:C:H1'	48:DX:33:HIS:CD2	2.50	0.46
25:DA:214:G:O5'	25:DA:214:G:H8	1.98	0.46
25:DA:2128:G:H22	25:DA:2161:C:H1'	1.80	0.46
25:DA:292:U:N3	25:DA:293:U:C5	2.84	0.46
25:DA:417:C:N3	25:DA:418:C:C5	2.84	0.46
25:DA:58:G:C2	25:DA:70:G:C2	3.03	0.46
25:DA:879:G:N1	25:DA:880:G:C6	2.84	0.46
25:DA:935:C:O2'	25:DA:936:A:H5'	2.16	0.46
56:DB:50:A:C5	56:DB:51:G:C8	3.03	0.46
56:DB:89:U:O4'	56:DB:89:U:O2	2.33	0.46
27:DC:100:ARG:HG3	27:DC:100:ARG:HH11	1.81	0.46
30:DF:73:VAL:HG23	30:DF:78:ILE:HD11	1.97	0.46
30:DF:74:ALA:O	30:DF:75:GLY:C	2.53	0.46
32:DH:3:VAL:HA	32:DH:37:VAL:O	2.15	0.46
25:DA:1064:C:O4'	33:DI:89:SER:HB2	2.15	0.46
25:DA:635:C:P	36:DL:126:ARG:HD2	2.56	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:72:ASP:HB3	38:DN:75:ILE:HG12	1.98	0.46
42:DR:62:GLU:HG3	42:DR:62:GLU:O	2.16	0.46
45:DU:32:LYS:HB3	45:DU:63:ALA:HB1	1.97	0.46
45:DU:97:SER:O	45:DU:98:ASN:HB3	2.14	0.46
46:DV:44:HIS:O	46:DV:45:ASP:C	2.53	0.46
46:DV:61:LEU:N	46:DV:61:LEU:HD12	2.30	0.46
49:DY:11:VAL:O	49:DY:12:GLU:C	2.52	0.46
1:AA:102:G:C2	1:AA:103:U:C5	3.04	0.46
1:AA:1151:A:HO2'	1:AA:1152:A:P	2.39	0.46
1:AA:142:G:C6	1:AA:143:A:C5	3.03	0.46
1:AA:625:U:O2'	1:AA:626:G:C5'	2.64	0.46
1:AA:748:G:C4	1:AA:749:A:C8	3.03	0.46
1:AA:773:G:C2	1:AA:807:A:C2	3.03	0.46
2:AB:9:LEU:HG	2:AB:11:ALA:N	2.30	0.46
2:AB:216:VAL:O	2:AB:220:VAL:HG23	2.15	0.46
3:AC:71:ARG:HB3	3:AC:74:ILE:HG22	1.98	0.46
1:AA:1072:G:OP1	5:AE:61:LYS:NZ	2.49	0.46
7:AG:119:LEU:CD2	7:AG:123:LEU:HD21	2.45	0.46
7:AG:87:PRO:C	7:AG:88:VAL:HG12	2.35	0.46
8:AH:77:VAL:HG11	8:AH:124:ILE:CG1	2.46	0.46
11:AK:73:VAL:C	11:AK:75:GLU:H	2.18	0.46
12:AL:1:ALA:HB3	12:AL:5:GLN:OE1	2.16	0.46
17:AQ:15:LYS:H	17:AQ:16:MET:HE1	1.80	0.46
24:AY:150:SER:O	24:AY:153:ASP:HB2	2.16	0.46
1:BA:1141:C:C2	1:BA:1142:G:C8	3.03	0.46
1:BA:1170:A:H8	1:BA:1170:A:O5'	1.98	0.46
1:BA:1253:G:N2	1:BA:1285:A:H62	2.13	0.46
1:BA:1302:C:C4	13:BM:16:ILE:HD11	2.51	0.46
1:BA:1319:A:OP2	19:BS:4:LEU:HD21	2.16	0.46
1:BA:413:G:H22	1:BA:429:U:P	2.39	0.46
1:BA:473:U:H2'	1:BA:474:G:H8	1.81	0.46
1:BA:617:G:C6	1:BA:618:C:C5	3.04	0.46
1:BA:74:A:C2	1:BA:97:G:C5	3.04	0.46
3:BC:132:ALA:O	3:BC:136:ALA:CB	2.64	0.46
3:BC:132:ALA:O	3:BC:136:ALA:HB2	2.16	0.46
4:BD:116:LEU:HD23	4:BD:121:ALA:HB3	1.97	0.46
5:BE:45:VAL:HG22	5:BE:117:ALA:CB	2.46	0.46
5:BE:24:VAL:O	5:BE:25:LYS:C	2.53	0.46
6:BF:13:ASP:O	6:BF:15:SER:N	2.48	0.46
8:BH:35:ILE:HD11	8:BH:125:ILE:HG21	1.97	0.46
9:BI:41:GLU:O	9:BI:42:THR:O	2.33	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:5:ARG:CD	10:BJ:79:PRO:HG3	2.45	0.46
1:BA:1226:C:H2'	13:BM:101:THR:HB	1.97	0.46
13:BM:47:LEU:CD2	13:BM:52:ILE:HG13	2.46	0.46
15:BO:35:ILE:CD1	15:BO:62:ARG:NH1	2.78	0.46
18:BR:33:THR:HG23	18:BR:35:SER:HB2	1.97	0.46
18:BR:70:THR:HG23	18:BR:72:ARG:H	1.80	0.46
18:BR:34:GLU:HB2	21:BU:18:PHE:CE1	2.51	0.46
25:CA:1085:A:C5	25:CA:1086:A:C6	3.04	0.46
25:CA:1908:C:C4	25:CA:1909:C:C5	3.04	0.46
25:CA:1909:C:H5'	25:CA:1910:G:OP2	2.16	0.46
25:CA:2102:G:H3'	25:CA:2103:C:H6	1.80	0.46
25:CA:2157:G:O2'	25:CA:2158:A:O5'	2.24	0.46
25:CA:2516:A:C2	25:CA:2569:G:C2	3.03	0.46
25:CA:2656:U:C5	25:CA:2664:G:N2	2.83	0.46
28:CD:136:ASN:ND2	28:CD:140:HIS:CD2	2.83	0.46
30:CF:35:LEU:HD11	30:CF:98:PHE:CZ	2.49	0.46
30:CF:43:ILE:O	30:CF:82:TYR:OH	2.32	0.46
31:CG:71:LEU:HD12	31:CG:71:LEU:H	1.79	0.46
33:CI:122:GLU:C	33:CI:125:THR:HB	2.36	0.46
33:CI:122:GLU:O	33:CI:126:ARG:HD3	2.16	0.46
25:CA:2415:G:C4'	36:CL:66:PHE:HB3	2.46	0.46
37:CM:92:TRP:C	37:CM:93:VAL:HG13	2.35	0.46
42:CR:14:VAL:HG11	42:CR:98:ILE:CD1	2.45	0.46
45:CU:96:LYS:O	45:CU:97:SER:OG	2.34	0.46
46:CV:75:GLN:HB2	46:CV:92:VAL:HG23	1.97	0.46
52:D1:8:ILE:HB	52:D1:51:ALA:HA	1.97	0.46
36:DL:62:PRO:CG	54:D3:24:LYS:HD2	2.45	0.46
25:DA:1385:A:H4'	25:DA:1386:C:OP1	2.15	0.46
25:DA:1403:A:N3	25:DA:1404:C:C6	2.84	0.46
25:DA:1402:U:H2'	25:DA:1403:A:O5'	2.15	0.46
25:DA:1579:A:H2'	25:DA:1580:A:O4'	2.15	0.46
25:DA:1588:G:H3'	25:DA:1589:U:H6	1.81	0.46
25:DA:1738:G:C2'	25:DA:1739:A:OP2	2.63	0.46
25:DA:178:G:C2'	25:DA:179:C:H5'	2.46	0.46
25:DA:1824:G:O2'	25:DA:1825:U:H5'	2.16	0.46
25:DA:189:G:H2'	25:DA:205:G:H22	1.80	0.46
25:DA:2325:G:C6	25:DA:2326:C:N4	2.84	0.46
25:DA:2345:G:C4	25:DA:2381:A:C2	3.03	0.46
25:DA:511:U:C5	25:DA:512:G:C5	3.04	0.46
25:DA:566:U:H5''	36:DL:29:LYS:HE3	1.97	0.46
25:DA:569:U:O4	25:DA:570:G:C6	2.69	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:3:C:O2'	56:DB:4:C:H5'	2.16	0.46
27:DC:17:LYS:C	27:DC:18:VAL:HG23	2.36	0.46
28:DD:47:ALA:HA	28:DD:84:LEU:HG	1.97	0.46
30:DF:31:GLU:OE1	30:DF:91:ARG:NH1	2.49	0.46
30:DF:92:GLY:O	30:DF:93:GLU:C	2.52	0.46
33:DI:82:ALA:O	33:DI:83:ALA:HB2	2.15	0.46
36:DL:78:ARG:HG3	36:DL:81:ASP:OD1	2.15	0.46
37:DM:30:SER:HB2	37:DM:31:PHE:CD1	2.50	0.46
39:DO:88:LYS:O	39:DO:88:LYS:HG3	2.14	0.46
39:DO:27:VAL:HA	39:DO:93:ASP:HB3	1.98	0.46
42:DR:47:VAL:O	42:DR:47:VAL:CG1	2.63	0.46
44:DT:63:VAL:O	44:DT:79:ASP:HA	2.15	0.46
44:DT:91:GLN:OE1	44:DT:91:GLN:O	2.33	0.46
46:DV:56:PHE:CD1	46:DV:61:LEU:CD2	2.99	0.46
1:AA:1002:G:C6	1:AA:1003:G:C5	3.03	0.46
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.43	0.46
1:AA:328:C:O2	1:AA:328:C:C2'	2.62	0.46
1:AA:470:C:N3	1:AA:471:U:C4	2.84	0.46
1:AA:610:U:H2'	1:AA:611:C:H6	1.79	0.46
1:AA:687:A:C8	1:AA:701:U:C4	3.04	0.46
1:AA:68:G:C5	1:AA:69:G:H1'	2.50	0.46
1:AA:763:G:C4	1:AA:764:C:C6	3.04	0.46
1:AA:922:G:C2	1:AA:1396:A:C6	3.04	0.46
2:AB:15:PHE:HB2	2:AB:39:ILE:HG23	1.97	0.46
2:AB:163:ILE:HG12	2:AB:164:ASP:N	2.30	0.46
2:AB:27:LYS:N	2:AB:28:PRO:CD	2.79	0.46
3:AC:45:GLU:C	3:AC:47:ALA:H	2.18	0.46
3:AC:72:PRO:O	3:AC:73:GLY:C	2.54	0.46
4:AD:112:GLU:O	4:AD:115:GLN:N	2.49	0.46
1:AA:619:U:H3	4:AD:130:ASN:ND2	2.14	0.46
4:AD:172:VAL:HG22	4:AD:173:ASP:N	2.31	0.46
4:AD:52:VAL:HG23	4:AD:53:GLN:N	2.30	0.46
5:AE:55:VAL:HB	5:AE:56:PRO:HD3	1.98	0.46
6:AF:35:LYS:HE3	6:AF:65:GLU:OE2	2.15	0.46
7:AG:73:GLU:HA	7:AG:140:VAL:CG1	2.46	0.46
9:AI:38:PHE:HA	9:AI:41:GLU:CD	2.36	0.46
9:AI:16:ALA:HA	9:AI:65:THR:O	2.15	0.46
11:AK:121:ARG:NE	21:AU:35:GLU:HG3	2.31	0.46
14:AN:7:ALA:HA	14:AN:10:VAL:CG2	2.46	0.46
16:AP:20:VAL:HG11	16:AP:32:PHE:CB	2.46	0.46
17:AQ:60:ILE:HA	17:AQ:73:THR:O	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:33:THR:HG23	18:AR:36:GLY:H	1.81	0.46
20:AT:47:GLN:HE21	20:AT:47:GLN:C	2.19	0.46
24:AY:140:VAL:O	24:AY:141:LYS:C	2.53	0.46
1:BA:1057:G:C5	1:BA:1058:G:C5	3.04	0.46
1:BA:1090:U:H2'	1:BA:1090:U:O2	2.16	0.46
1:BA:1097:C:H5''	2:BB:138:ARG:NH2	2.31	0.46
1:BA:1151:A:O4'	10:BJ:41:PRO:HB2	2.15	0.46
1:BA:146:G:N2	1:BA:177:G:C8	2.84	0.46
1:BA:283:U:C4	1:BA:284:C:N4	2.84	0.46
1:BA:341:C:C2	1:BA:349:A:C2	3.04	0.46
1:BA:600:A:C2	1:BA:601:G:C4	3.03	0.46
1:BA:681:A:N1	1:BA:710:G:C6	2.84	0.46
1:BA:71:A:C8	1:BA:71:A:H3'	2.50	0.46
1:BA:721:G:H4'	1:BA:722:G:C5'	2.46	0.46
2:BB:216:VAL:O	2:BB:217:ALA:C	2.54	0.46
2:BB:53:LEU:C	2:BB:56:LEU:HB3	2.36	0.46
2:BB:67:LEU:O	2:BB:160:LEU:CD1	2.62	0.46
2:BB:86:CYS:HB2	2:BB:88:GLN:HG3	1.97	0.46
2:BB:97:GLY:HA2	2:BB:174:GLU:OE2	2.15	0.46
4:BD:109:THR:O	4:BD:112:GLU:N	2.49	0.46
5:BE:56:PRO:O	5:BE:59:ILE:CD1	2.64	0.46
7:BG:35:LYS:O	7:BG:38:ALA:HB3	2.15	0.46
7:BG:45:ALA:HB1	7:BG:120:ALA:HB2	1.98	0.46
7:BG:88:VAL:CG2	7:BG:89:GLU:N	2.79	0.46
8:BH:62:LEU:N	8:BH:62:LEU:HD23	2.31	0.46
9:BI:18:VAL:CG1	9:BI:85:ALA:HB2	2.45	0.46
15:BO:87:ARG:O	15:BO:88:ARG:OXT	2.34	0.46
16:BP:5:ARG:NH1	16:BP:24:SER:HA	2.30	0.46
18:BR:19:GLU:HG3	18:BR:54:LEU:HD13	1.98	0.46
20:BT:42:ASP:HB3	20:BT:45:ALA:CB	2.44	0.46
21:BU:34:ARG:O	21:BU:35:GLU:O	2.33	0.46
22:BV:33:U:O2	22:BV:35:A:C8	2.69	0.46
52:C1:11:VAL:O	52:C1:12:SER:C	2.53	0.46
25:CA:1291:C:O2'	25:CA:1292:G:H5'	2.15	0.46
25:CA:1482:G:N3	25:CA:1483:G:C8	2.83	0.46
25:CA:1853:A:C5	25:CA:1889:A:C6	3.03	0.46
22:AV:70:G:O2'	25:CA:1893:C:H1'	2.15	0.46
25:CA:1897:G:C6	25:CA:1898:U:N3	2.83	0.46
25:CA:2123:G:O2'	25:CA:2124:G:H5'	2.16	0.46
25:CA:2172:U:OP1	25:CA:2174:C:H5	1.98	0.46
25:CA:2534:A:C2'	25:CA:2535:G:O5'	2.64	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2585:U:O2'	25:CA:2586:U:H5'	2.16	0.46
25:CA:2592:G:C5	25:CA:2593:U:C4	3.03	0.46
25:CA:1782:U:H2'	25:CA:2608:G:O2'	2.16	0.46
25:CA:2661:G:C2'	25:CA:2662:A:O5'	2.63	0.46
25:CA:2852:G:C5	25:CA:2853:C:C5	3.04	0.46
26:CB:30:C:C3'	26:CB:31:C:H5'	2.46	0.46
26:CB:61:G:H2'	26:CB:62:C:C6	2.50	0.46
27:CC:221:GLY:O	27:CC:223:ALA:N	2.48	0.46
27:CC:63:ILE:O	27:CC:63:ILE:HG22	2.14	0.46
33:CI:33:ASN:HB3	33:CI:36:GLU:CB	2.45	0.46
36:CL:106:GLU:C	36:CL:107:PHE:CD2	2.89	0.46
39:CO:66:GLY:HA2	39:CO:102:ARG:NH2	2.30	0.46
49:CY:9:LYS:O	49:CY:13:GLU:HB2	2.15	0.46
49:CY:17:GLU:CA	49:CY:17:GLU:OE2	2.63	0.46
49:CY:18:LEU:HD23	49:CY:22:LEU:HD23	1.98	0.46
25:DA:1062:G:H2'	25:DA:1063:G:C5	2.50	0.46
25:DA:1063:G:C3'	25:DA:1064:C:H6	2.29	0.46
25:DA:1272:A:N7	25:DA:1618:A:H1'	2.30	0.46
25:DA:12:U:O2	25:DA:12:U:H2'	2.14	0.46
25:DA:1400:U:H2'	25:DA:1401:G:O5'	2.16	0.46
25:DA:1586:A:N7	25:DA:1587:G:C4	2.84	0.46
25:DA:2137:U:H2'	25:DA:2137:U:O2	2.16	0.46
25:DA:828:U:C5	25:DA:2247:A:H4'	2.51	0.46
25:DA:224:U:H2'	25:DA:225:C:O5'	2.15	0.46
25:DA:2290:G:C6	25:DA:2291:U:C4	3.04	0.46
25:DA:230:G:C2	25:DA:231:A:C4	3.04	0.46
25:DA:537:G:C2	25:DA:555:G:N2	2.83	0.46
25:DA:666:A:H2'	25:DA:667:U:C6	2.51	0.46
25:DA:80:G:C2'	25:DA:81:G:H5'	2.46	0.46
25:DA:845:A:N1	25:DA:847:U:C6	2.84	0.46
56:DB:42:C:O2'	30:DF:62:GLN:HB3	2.16	0.46
56:DB:70:C:O2	56:DB:70:C:H2'	2.16	0.46
28:DD:39:ASP:H	28:DD:43:ASP:HB2	1.81	0.46
29:DE:155:GLU:HA	29:DE:155:GLU:OE1	2.15	0.46
29:DE:191:ASP:O	29:DE:194:LYS:HB3	2.16	0.46
29:DE:76:PRO:HA	29:DE:82:GLY:CA	2.45	0.46
33:DI:120:ASP:CG	33:DI:122:GLU:HB3	2.36	0.46
33:DI:63:ASP:O	33:DI:64:ARG:CB	2.64	0.46
35:DK:14:SER:O	35:DK:52:VAL:HG22	2.15	0.46
36:DL:100:ILE:HG13	36:DL:100:ILE:O	2.15	0.46
36:DL:110:VAL:HG11	36:DL:135:ILE:HD11	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DL:79:LEU:O	36:DL:80:SER:C	2.53	0.46
39:DO:47:VAL:C	39:DO:48:LEU:HD23	2.36	0.46
40:DP:21:PRO:HG3	40:DP:94:ALA:HA	1.98	0.46
41:DQ:81:GLY:CA	41:DQ:116:LEU:HD13	2.46	0.46
41:DQ:57:ARG:NH2	41:DQ:91:ARG:CZ	2.79	0.46
42:DR:45:GLU:HA	42:DR:45:GLU:OE2	2.16	0.46
43:DS:59:GLU:OE1	43:DS:66:ILE:HD11	2.16	0.46
44:DT:69:ARG:CB	44:DT:74:ILE:CG2	2.94	0.46
45:DU:71:ILE:CD1	45:DU:82:VAL:HG22	2.46	0.46
57:DW:30:GLY:O	57:DW:56:PHE:HB2	2.15	0.46
48:DX:66:VAL:O	48:DX:69:GLU:N	2.49	0.46
1:AA:426:U:H5''	4:AD:36:ALA:CB	2.46	0.46
1:AA:439:U:C4	1:AA:440:C:C5	3.04	0.46
1:AA:622:A:N7	1:AA:623:C:C6	2.84	0.46
1:AA:675:A:H2'	1:AA:676:A:O5'	2.15	0.46
1:AA:739:C:C5	1:AA:740:U:C5	3.03	0.46
2:AB:101:THR:N	2:AB:174:GLU:OE1	2.49	0.46
2:AB:52:ALA:CB	2:AB:212:TYR:OH	2.64	0.46
2:AB:32:GLY:HA3	2:AB:38:HIS:CA	2.46	0.46
2:AB:57:ASN:HA	2:AB:60:ALA:HB3	1.97	0.46
3:AC:166:TRP:CA	3:AC:166:TRP:CE3	2.99	0.46
5:AE:63:MET:O	5:AE:64:GLU:C	2.54	0.46
5:AE:45:VAL:C	5:AE:70:MET:HG3	2.37	0.46
7:AG:119:LEU:HD23	7:AG:123:LEU:CD2	2.46	0.46
9:AI:100:ALA:O	9:AI:102:PHE:CD1	2.69	0.46
9:AI:90:ASP:OD2	9:AI:90:ASP:C	2.54	0.46
1:AA:684:U:O2'	11:AK:39:ASN:O	2.33	0.46
13:AM:2:ARG:O	13:AM:7:ASN:O	2.34	0.46
1:AA:375:U:O2'	16:AP:6:LEU:O	2.33	0.46
18:AR:54:LEU:O	18:AR:58:ILE:HG13	2.15	0.46
20:AT:68:LYS:HB2	20:AT:69:ASN:H	1.60	0.46
20:AT:69:ASN:OD1	20:AT:69:ASN:N	2.49	0.46
22:AV:14:A:N6	22:AV:22:G:C5	2.83	0.46
1:BA:101:A:O2'	1:BA:102:G:H5'	2.16	0.46
1:BA:110:C:O2	1:BA:110:C:H2'	2.14	0.46
1:BA:1216:A:C6	1:BA:1217:C:N4	2.83	0.46
1:BA:1245:C:C4	1:BA:1246:A:N7	2.84	0.46
1:BA:1256:A:H5'	1:BA:1258:G:O4'	2.15	0.46
1:BA:1350:A:C2	1:BA:1351:U:C2	3.04	0.46
1:BA:158:G:C3'	1:BA:159:G:H5''	2.46	0.46
1:BA:19:A:C4	1:BA:917:G:C2	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:251:G:C6	1:BA:266:G:C6	3.04	0.46
1:BA:318:G:C6	1:BA:319:G:N7	2.84	0.46
1:BA:69:G:H2'	1:BA:70:U:H6	1.79	0.46
1:BA:72:A:C8	1:BA:73:C:H5	2.34	0.46
1:BA:856:C:C2'	1:BA:857:C:H5'	2.46	0.46
1:BA:972:C:O2'	10:BJ:57:VAL:HG22	2.16	0.46
1:BA:72:A:C6	1:BA:99:C:H1'	2.51	0.46
2:BB:67:LEU:HD13	2:BB:160:LEU:HD11	1.97	0.46
1:BA:1103:C:H5''	2:BB:96:LEU:HD13	1.97	0.46
4:BD:122:ILE:CG2	4:BD:142:VAL:HG23	2.46	0.46
4:BD:31:CYS:SG	4:BD:32:LYS:N	2.88	0.46
5:BE:158:LYS:HG3	5:BE:158:LYS:O	2.16	0.46
7:BG:110:ARG:CZ	7:BG:121:ASN:HB3	2.46	0.46
7:BG:120:ALA:HA	7:BG:123:LEU:HB2	1.98	0.46
9:BI:11:ARG:O	9:BI:11:ARG:CG	2.63	0.46
1:BA:972:C:O2'	10:BJ:57:VAL:CG2	2.64	0.46
19:BS:17:LYS:HA	19:BS:20:LYS:HZ3	1.81	0.46
19:BS:57:VAL:CG1	19:BS:74:ALA:CB	2.94	0.46
21:BU:28:LEU:HD23	21:BU:28:LEU:O	2.15	0.46
22:BV:50:U:C2	22:BV:51:U:C5	3.04	0.46
22:BV:52:G:C6	22:BV:53:G:N7	2.83	0.46
25:CA:1372:U:H6	25:CA:1372:U:H5'	1.81	0.46
25:CA:1473:G:C6	25:CA:1474:U:N3	2.83	0.46
25:CA:1520:U:C2'	25:CA:1520:U:O2	2.62	0.46
25:CA:1830:C:H2'	25:CA:1831:G:H8	1.80	0.46
25:CA:2016:U:H1'	51:C0:2:VAL:CG2	2.46	0.46
25:CA:2091:C:O2'	48:CX:55:MET:HE3	2.16	0.46
25:CA:2111:U:H5'	25:CA:2112:G:P	2.55	0.46
25:CA:2124:G:H2'	25:CA:2125:G:C5'	2.45	0.46
25:CA:2189:U:H2'	25:CA:2190:G:H8	1.80	0.46
25:CA:2229:U:H2'	25:CA:2230:G:C8	2.51	0.46
25:CA:263:G:H2'	25:CA:264:C:O4'	2.16	0.46
25:CA:277:G:C2'	25:CA:361:G:O6	2.64	0.46
25:CA:31:C:O3'	25:CA:1238:G:C5'	2.64	0.46
25:CA:354:A:C5	25:CA:355:U:C5	3.03	0.46
25:CA:1693:U:O2'	27:CC:13:ARG:NH2	2.49	0.46
27:CC:259:ASN:OD1	27:CC:262:THR:HG23	2.15	0.46
28:CD:99:GLU:O	28:CD:102:ALA:N	2.49	0.46
29:CE:138:LEU:CD1	29:CE:167:VAL:HG21	2.46	0.46
30:CF:32:LYS:HD3	30:CF:91:ARG:NH1	2.30	0.46
31:CG:154:GLU:HG2	31:CG:155:PRO:CD	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:110:GLN:O	33:CI:110:GLN:HG2	2.16	0.46
33:CI:100:ILE:HD11	33:CI:137:LEU:HD13	1.97	0.46
33:CI:20:SER:N	33:CI:21:PRO:CD	2.79	0.46
37:CM:69:PRO:O	37:CM:70:ASP:OD2	2.33	0.46
38:CN:75:ILE:O	38:CN:79:LEU:CD1	2.61	0.46
40:CP:32:VAL:HG13	40:CP:36:LYS:O	2.16	0.46
40:CP:80:VAL:CG1	40:CP:83:ILE:CD1	2.94	0.46
45:CU:4:ILE:CG2	45:CU:5:ARG:N	2.79	0.46
25:DA:106:C:H5''	25:DA:107:G:OP2	2.16	0.46
25:DA:1172:C:H3'	25:DA:1173:U:C5	2.51	0.46
25:DA:1237:A:O5'	25:DA:1237:A:H2'	2.15	0.46
25:DA:1519:G:C6	25:DA:1520:U:N3	2.84	0.46
25:DA:1676:A:N7	60:DA:3775:HOH:O	2.36	0.46
25:DA:1710:G:C5	25:DA:1749:A:N1	2.83	0.46
25:DA:1874:C:H3'	25:DA:1875:G:C8	2.50	0.46
25:DA:1893:C:C5	25:DA:1894:C:C5	3.03	0.46
25:DA:2060:A:H3'	29:DE:63:LYS:HZ1	1.81	0.46
25:DA:222:A:C5	25:DA:224:U:C2	3.04	0.46
25:DA:2492:U:O2'	25:DA:2493:U:H5'	2.16	0.46
25:DA:1953:A:H2	25:DA:2549:G:N3	2.13	0.46
25:DA:2648:G:C6	25:DA:2649:C:C4	3.04	0.46
25:DA:305:C:H1'	25:DA:313:G:N2	2.30	0.46
25:DA:584:C:OP1	41:DQ:5:ARG:HG2	2.16	0.46
25:DA:59:U:C3'	25:DA:59:U:C6	2.98	0.46
56:DB:2:G:N3	56:DB:2:G:H2'	2.31	0.46
31:DG:30:GLY:CA	31:DG:78:VAL:HG12	2.45	0.46
34:DJ:34:ARG:HG3	34:DJ:34:ARG:HH11	1.81	0.46
34:DJ:72:LYS:HD3	34:DJ:74:TYR:CE1	2.51	0.46
35:DK:19:VAL:HG12	35:DK:43:ILE:HG12	1.96	0.46
36:DL:90:VAL:HB	36:DL:122:VAL:HG22	1.98	0.46
40:DP:32:VAL:O	40:DP:34:GLY:N	2.49	0.46
42:DR:47:VAL:HG13	42:DR:54:VAL:HG22	1.97	0.46
43:DS:15:GLN:HG3	51:D0:16:ARG:HH12	1.80	0.46
44:DT:7:LEU:CD2	44:DT:46:ALA:CA	2.93	0.46
45:DU:62:ALA:O	45:DU:63:ALA:O	2.33	0.46
46:DV:56:PHE:CE1	46:DV:61:LEU:HD22	2.51	0.46
46:DV:64:VAL:HG13	46:DV:67:GLY:HA2	1.97	0.46
49:DY:9:LYS:HB3	49:DY:12:GLU:HG2	1.97	0.46
50:DZ:41:PRO:O	50:DZ:44:ARG:HB2	2.16	0.46
1:AA:100:G:C6	1:AA:101:A:C5	3.04	0.46
1:AA:1057:G:H2'	1:AA:1058:G:C5'	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1152:A:H5'	10:AJ:15:HIS:CD2	2.50	0.46
1:AA:1203:C:N4	1:AA:1204:A:N6	2.64	0.46
1:AA:1519:A:N7	1:AA:1520:C:H1'	2.31	0.46
1:AA:189:A:C5	1:AA:190:A:C2	3.04	0.46
1:AA:421:U:O2	3:AC:126:ARG:NH2	2.49	0.46
1:AA:564:C:C4	1:AA:565:U:C4	3.04	0.46
1:AA:726:C:O2'	1:AA:727:G:H5'	2.16	0.46
2:AB:15:PHE:HD1	2:AB:16:GLY:H	1.64	0.46
2:AB:207:ARG:O	2:AB:211:LEU:HD13	2.14	0.46
2:AB:62:ARG:O	2:AB:63:LYS:HB2	2.16	0.46
4:AD:97:LEU:HD23	4:AD:117:VAL:CG1	2.45	0.46
5:AE:125:LYS:HD3	5:AE:127:TYR:CE2	2.50	0.46
6:AF:70:VAL:HA	6:AF:73:GLU:HG2	1.98	0.46
8:AH:38:VAL:CG1	8:AH:111:THR:HG22	2.46	0.46
9:AI:27:ILE:HG12	9:AI:62:LEU:HD21	1.97	0.46
9:AI:38:PHE:CE1	9:AI:75:ALA:HB2	2.50	0.46
10:AJ:58:ASN:O	10:AJ:60:ASP:N	2.49	0.46
10:AJ:6:ILE:H	10:AJ:6:ILE:HD12	1.81	0.46
1:AA:1309:G:P	13:AM:90:HIS:HE1	2.38	0.46
16:AP:67:ILE:O	16:AP:67:ILE:CG2	2.63	0.46
17:AQ:13:SER:CB	17:AQ:21:VAL:HG11	2.46	0.46
17:AQ:34:GLY:O	17:AQ:35:LYS:C	2.53	0.46
19:AS:10:ILE:HG21	19:AS:40:PHE:HE2	1.81	0.46
11:AK:88:PRO:HD3	21:AU:28:LEU:HD11	1.97	0.46
1:BA:1070:U:H2'	1:BA:1071:C:C6	2.50	0.46
1:BA:1349:A:H2'	1:BA:1350:A:O4'	2.16	0.46
1:BA:1423:G:C5	1:BA:1424:U:C5	3.04	0.46
1:BA:220:G:H2'	1:BA:221:C:O5'	2.16	0.46
1:BA:402:G:C6	1:BA:403:C:C4	3.03	0.46
1:BA:489:C:H2'	1:BA:490:C:C6	2.51	0.46
1:BA:500:G:C6	1:BA:501:C:C4	3.04	0.46
1:BA:775:G:C2'	1:BA:776:G:H5'	2.45	0.46
1:BA:799:G:C2'	1:BA:800:G:H5'	2.46	0.46
1:BA:932:C:C4	7:BG:2:ARG:NH2	2.83	0.46
2:BB:100:LEU:N	2:BB:100:LEU:CD2	2.79	0.46
2:BB:169:HIS:O	2:BB:170:ILE:C	2.53	0.46
4:BD:27:ILE:O	4:BD:28:ASP:O	2.34	0.46
6:BF:21:MET:HB3	6:BF:25:TYR:CZ	2.50	0.46
6:BF:69:GLU:HA	6:BF:69:GLU:OE1	2.16	0.46
7:BG:96:ASN:HA	7:BG:99:ALA:CB	2.45	0.46
8:BH:88:LYS:C	8:BH:90:GLU:H	2.18	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:706:A:C1'	11:BK:30:ILE:HD11	2.45	0.46
12:BL:2:THR:O	12:BL:3:VAL:C	2.54	0.46
13:BM:4:ALA:O	13:BM:6:ILE:N	2.49	0.46
14:BN:27:LYS:O	14:BN:28:ALA:O	2.34	0.46
16:BP:6:LEU:HD23	16:BP:17:TYR:CB	2.45	0.46
16:BP:71:VAL:HG12	16:BP:75:ILE:HD11	1.98	0.46
11:BK:109:ILE:O	21:BU:5:VAL:HG22	2.16	0.46
25:CA:1004:U:C2'	25:CA:1005:C:OP2	2.63	0.46
25:CA:1061:U:HO2'	25:CA:1062:G:C5'	2.26	0.46
25:CA:1098:A:C6	25:CA:1099:G:C6	3.04	0.46
25:CA:1142:A:C4	25:CA:1144:A:C8	3.04	0.46
25:CA:1446:C:H2'	25:CA:1447:C:C6	2.50	0.46
25:CA:1501:G:C2'	25:CA:1502:A:O5'	2.64	0.46
25:CA:1714:U:C5'	25:CA:1715:G:H5'	2.46	0.46
25:CA:1748:C:H2'	25:CA:1749:A:O4'	2.16	0.46
25:CA:1904:G:H1'	25:CA:1927:A:N1	2.31	0.46
25:CA:1966:A:N3	25:CA:2592:G:O2'	2.41	0.46
25:CA:570:G:H2'	25:CA:2030:A:N7	2.31	0.46
25:CA:2110:G:O2'	25:CA:2120:G:H5''	2.16	0.46
25:CA:2182:U:C2	25:CA:2183:A:N7	2.83	0.46
25:CA:2355:G:O2'	47:CW:35:ARG:HD2	2.16	0.46
25:CA:2526:G:H2'	25:CA:2527:C:O5'	2.16	0.46
25:CA:2567:G:H2'	25:CA:2568:U:C6	2.51	0.46
25:CA:2760:C:O2	25:CA:2760:C:C2'	2.60	0.46
25:CA:277:G:H4'	25:CA:278:A:C6	2.50	0.46
25:CA:2820:A:C2'	25:CA:2821:A:OP1	2.64	0.46
25:CA:362:A:OP2	25:CA:362:A:C8	2.69	0.46
25:CA:392:U:H2'	25:CA:393:C:H6	1.81	0.46
25:CA:708:G:O6	25:CA:723:C:N3	2.49	0.46
27:CC:16:VAL:HB	27:CC:203:VAL:HG13	1.98	0.46
29:CE:48:THR:CG2	29:CE:86:ALA:HB3	2.46	0.46
30:CF:117:SER:C	30:CF:119:LYS:H	2.20	0.46
32:CH:24:GLY:O	32:CH:28:ASN:HB2	2.16	0.46
33:CI:126:ARG:HA	33:CI:129:GLU:CG	2.45	0.46
33:CI:57:VAL:O	33:CI:68:PHE:CB	2.64	0.46
36:CL:29:LYS:HG2	36:CL:30:THR:HG23	1.97	0.46
36:CL:4:ASN:O	36:CL:4:ASN:CG	2.54	0.46
36:CL:76:GLU:O	36:CL:77:ILE:HD13	2.15	0.46
40:CP:64:SER:OG	40:CP:65:ASN:ND2	2.49	0.46
41:CQ:67:ALA:O	41:CQ:68:ALA:C	2.54	0.46
42:CR:54:VAL:O	42:CR:55:ASP:O	2.33	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CW:27:VAL:HG21	47:CW:78:ILE:HD11	1.98	0.46
49:CY:9:LYS:N	49:CY:12:GLU:HB2	2.31	0.46
25:DA:1031:G:C4'	55:D4:6:SER:HB2	2.45	0.46
25:DA:996:A:N6	25:DA:1160:G:C6	2.83	0.46
25:DA:1359:A:C8	25:DA:1373:A:C2	3.03	0.46
25:DA:137:U:C2	25:DA:140:C:H1'	2.51	0.46
25:DA:1394:U:C2'	25:DA:1395:A:O5'	2.62	0.46
25:DA:1401:G:C6	25:DA:1402:U:C4	3.04	0.46
25:DA:1553:A:C6	25:DA:1555:G:H1'	2.51	0.46
25:DA:1709:U:C2	25:DA:1710:G:C8	3.04	0.46
25:DA:155:A:C2	25:DA:172:A:C2	3.03	0.46
25:DA:2114:A:N1	25:DA:2115:G:H1'	2.31	0.46
25:DA:2292:U:C2'	25:DA:2293:G:O5'	2.64	0.46
25:DA:227:A:C4	25:DA:2407:A:H1'	2.51	0.46
25:DA:747:U:C4	25:DA:2613:U:C5	3.03	0.46
25:DA:2671:G:C2	25:DA:2672:U:C2	3.04	0.46
25:DA:412:A:N6	25:DA:2412:A:O4'	2.49	0.46
25:DA:590:A:O2'	25:DA:591:U:H5'	2.16	0.46
25:DA:640:C:C6	25:DA:641:U:C5	3.04	0.46
25:DA:681:G:H2'	25:DA:682:G:O4'	2.15	0.46
25:DA:846:U:H1'	25:DA:847:U:H5	1.80	0.46
25:DA:84:A:N3	25:DA:85:G:H1'	2.31	0.46
25:DA:979:A:H2'	25:DA:980:A:OP1	2.15	0.46
30:DF:45:ASP:HB3	30:DF:48:LEU:HB3	1.97	0.46
32:DH:142:VAL:HG12	32:DH:143:ILE:N	2.30	0.46
32:DH:42:LYS:HE2	32:DH:42:LYS:C	2.35	0.46
32:DH:62:LEU:CD1	32:DH:63:ALA:HB2	2.45	0.46
32:DH:9:VAL:HG11	32:DH:12:LEU:HD11	1.96	0.46
33:DI:10:LEU:HD13	33:DI:23:VAL:HG11	1.98	0.46
33:DI:46:ASP:CG	33:DI:50:LYS:HD2	2.37	0.46
36:DL:127:VAL:HG13	36:DL:131:ALA:CB	2.46	0.46
37:DM:97:GLN:H	37:DM:97:GLN:NE2	2.14	0.46
38:DN:77:ALA:O	38:DN:78:LYS:C	2.54	0.46
39:DO:105:ALA:O	39:DO:106:LEU:C	2.54	0.46
39:DO:35:ILE:HG23	39:DO:74:VAL:HG11	1.97	0.46
35:DK:105:ARG:NH1	40:DP:33:GLU:HG3	2.31	0.46
42:DR:39:LEU:HB3	42:DR:49:ILE:HD13	1.97	0.46
25:DA:1614:A:C6	43:DS:87:PRO:HB3	2.51	0.46
44:DT:57:VAL:HG22	44:DT:58:VAL:N	2.30	0.46
44:DT:61:LEU:O	44:DT:61:LEU:HG	2.15	0.46
45:DU:25:LYS:HE3	45:DU:25:LYS:HA	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DZ:9:THR:CG2	50:DZ:53:MET:HA	2.42	0.46
1:AA:1020:G:C2	1:AA:1021:A:N7	2.84	0.46
1:AA:101:A:C5	1:AA:102:G:N7	2.83	0.46
1:AA:1061:G:C6	1:AA:1197:A:C2	3.03	0.46
1:AA:142:G:N3	1:AA:143:A:C8	2.83	0.46
1:AA:1439:G:N7	1:AA:1440:U:C5	2.84	0.46
1:AA:255:G:H5'	17:AQ:17:GLU:O	2.16	0.46
1:AA:276:G:C5	1:AA:277:C:H5	2.33	0.46
1:AA:322:C:O2	1:AA:332:G:N2	2.49	0.46
1:AA:451:A:C8	1:AA:481:G:N1	2.84	0.46
1:AA:456:A:C6	1:AA:457:G:C5	3.04	0.46
1:AA:503:C:O2'	1:AA:504:C:H5'	2.16	0.46
1:AA:550:G:C6	1:AA:551:U:C4	3.04	0.46
1:AA:646:G:C4	1:AA:647:C:C5	3.04	0.46
1:AA:71:A:N1	1:AA:99:C:O2'	2.48	0.46
1:AA:757:U:C5'	1:AA:822:U:O2	2.64	0.46
1:AA:794:A:C6	1:AA:795:C:N4	2.84	0.46
1:AA:91:U:H2'	1:AA:92:U:C1'	2.45	0.46
2:AB:134:LEU:HG	2:AB:137:THR:OG1	2.16	0.46
3:AC:72:PRO:HG2	3:AC:104:GLU:HG3	1.98	0.46
3:AC:2:GLN:C	3:AC:3:LYS:HG2	2.35	0.46
3:AC:84:GLU:O	3:AC:86:LEU:N	2.49	0.46
4:AD:162:GLU:HA	4:AD:166:LYS:HD3	1.97	0.46
4:AD:167:PRO:HB2	4:AD:170:LEU:CD1	2.46	0.46
5:AE:152:VAL:HG22	5:AE:153:ALA:H	1.80	0.46
7:AG:82:SER:CB	7:AG:84:TYR:CE2	2.99	0.46
8:AH:82:LEU:C	8:AH:82:LEU:CD2	2.84	0.46
10:AJ:52:LEU:CD1	10:AJ:61:ALA:HB3	2.46	0.46
11:AK:32:THR:OG1	11:AK:43:TRP:HB3	2.16	0.46
15:AO:3:SER:HB3	15:AO:6:ALA:H	1.81	0.46
1:AA:276:G:OP1	17:AQ:16:MET:HE2	2.16	0.46
1:BA:1086:U:O2'	1:BA:1087:G:H5'	2.15	0.46
1:BA:1107:C:C2	1:BA:1108:G:C8	3.04	0.46
1:BA:1239:A:H62	1:BA:1299:A:N6	2.14	0.46
1:BA:1514:G:H2'	1:BA:1515:G:O4'	2.16	0.46
1:BA:457:G:C5	1:BA:458:U:C4	3.03	0.46
1:BA:459:A:C2	1:BA:460:A:C5	3.04	0.46
1:BA:630:A:C2	1:BA:631:C:C2	3.03	0.46
2:BB:9:LEU:HA	2:BB:42:LEU:HD13	1.98	0.46
3:BC:153:SER:HB3	3:BC:164:THR:HG22	1.98	0.46
8:BH:31:LEU:O	8:BH:33:VAL:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BI:113:LYS:HG3	9:BI:119:LYS:HA	1.97	0.46
9:BI:12:LYS:H	9:BI:105:ARG:HH12	1.63	0.46
10:BJ:81:GLU:OE2	10:BJ:81:GLU:HA	2.17	0.46
11:BK:19:VAL:HB	11:BK:34:THR:CG2	2.46	0.46
11:BK:80:ASN:HA	11:BK:105:ARG:O	2.16	0.46
11:BK:85:VAL:HG11	11:BK:92:ARG:NH1	2.31	0.46
12:BL:106:VAL:HG23	12:BL:116:TYR:O	2.15	0.46
12:BL:33:CYS:HB3	12:BL:54:VAL:CG2	2.42	0.46
15:BO:17:ASP:OD1	15:BO:20:ASP:HB2	2.16	0.46
15:BO:26:VAL:HG12	15:BO:30:LEU:CD1	2.45	0.46
16:BP:74:LEU:HD23	16:BP:74:LEU:N	2.31	0.46
20:BT:81:GLN:O	20:BT:84:LYS:HB2	2.16	0.46
52:C1:10:LEU:N	52:C1:10:LEU:HD23	2.30	0.46
25:CA:1268:A:C2	25:CA:2013:A:C4	3.04	0.46
25:CA:1417:C:O2'	25:CA:1587:G:C2'	2.64	0.46
25:CA:1449:G:C2'	25:CA:1450:G:O5'	2.64	0.46
25:CA:1456:G:N3	25:CA:1456:G:H2'	2.31	0.46
25:CA:1482:G:C6	25:CA:1508:A:N1	2.84	0.46
25:CA:1595:C:O2	25:CA:1595:C:C2'	2.53	0.46
25:CA:1601:G:C2'	25:CA:1602:U:H5'	2.46	0.46
25:CA:1838:C:C5	25:CA:1899:A:C6	3.04	0.46
25:CA:185:G:C5	25:CA:186:G:N7	2.84	0.46
1:AA:1494:G:C8	25:CA:1913:A:C2	3.04	0.46
25:CA:1983:G:C2'	25:CA:1984:G:H5'	2.46	0.46
25:CA:208:C:O2	25:CA:208:C:H2'	2.14	0.46
25:CA:2186:G:H2'	25:CA:2187:U:H6	1.78	0.46
25:CA:2250:G:H8	25:CA:2250:G:O5'	1.99	0.46
25:CA:734:A:C4	25:CA:735:A:C8	3.04	0.46
25:CA:785:G:H2'	25:CA:786:C:C6	2.51	0.46
26:CB:38:C:C6	26:CB:38:C:H3'	2.51	0.46
26:CB:54:G:C5	26:CB:55:U:C5	3.03	0.46
28:CD:8:LYS:HE3	28:CD:193:VAL:O	2.15	0.46
30:CF:28:PRO:O	30:CF:29:ARG:HG2	2.16	0.46
25:CA:2313:C:H5''	30:CF:87:LYS:HD3	1.97	0.46
31:CG:72:ASN:ND2	31:CG:76:ILE:HD11	2.31	0.46
33:CI:15:GLY:CA	33:CI:50:LYS:HB3	2.41	0.46
35:CK:104:THR:O	35:CK:107:LEU:HD12	2.16	0.46
36:CL:110:VAL:O	36:CL:110:VAL:CG1	2.64	0.46
37:CM:42:THR:O	37:CM:46:ILE:HG13	2.16	0.46
38:CN:55:ALA:HB1	38:CN:80:PHE:H	1.81	0.46
42:CR:54:VAL:O	42:CR:55:ASP:C	2.54	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CU:82:VAL:CG1	45:CU:83:GLY:N	2.79	0.46
46:CV:4:ILE:HG12	46:CV:50:MET:SD	2.55	0.46
55:D4:16:ILE:HD13	55:D4:25:VAL:HG22	1.98	0.46
25:DA:104:A:C5	25:DA:105:C:C4	3.03	0.46
25:DA:1078:U:H5'	25:DA:1079:C:OP1	2.16	0.46
25:DA:1092:C:H3'	25:DA:1093:G:H8	1.81	0.46
25:DA:1164:C:O2'	25:DA:1165:A:H5'	2.15	0.46
25:DA:1407:G:C2	25:DA:1596:A:C2	3.03	0.46
25:DA:1930:G:N2	25:DA:1968:G:H2'	2.31	0.46
25:DA:2148:G:C2	25:DA:2149:U:C4	3.04	0.46
25:DA:2197:U:C6	25:DA:2224:G:C6	3.03	0.46
25:DA:2720:U:H4'	25:DA:2845:U:O2'	2.16	0.46
25:DA:2738:A:C2'	25:DA:2738:A:N3	2.76	0.46
25:DA:31:C:O3'	25:DA:1238:G:C5'	2.64	0.46
25:DA:391:A:H1'	25:DA:411:G:O4'	2.16	0.46
25:DA:55:G:C2'	25:DA:56:A:C5'	2.94	0.46
25:DA:55:G:HO2'	25:DA:56:A:H5'	1.81	0.46
25:DA:65:U:N3	25:DA:66:C:C5	2.83	0.46
25:DA:833:A:H2'	25:DA:834:G:C8	2.51	0.46
27:DC:188:ARG:HH21	27:DC:188:ARG:CG	2.29	0.46
27:DC:16:VAL:CB	27:DC:203:VAL:HG13	2.45	0.46
25:DA:2681:C:OP2	28:DD:114:LYS:CE	2.64	0.46
28:DD:12:THR:HG22	40:DP:8:GLU:OE2	2.15	0.46
28:DD:22:ILE:HG23	28:DD:190:LYS:HD2	1.98	0.46
30:DF:100:GLU:HG3	30:DF:104:THR:OG1	2.15	0.46
30:DF:55:ASP:O	30:DF:59:ILE:HG13	2.16	0.46
31:DG:147:LEU:HA	31:DG:150:TYR:CD1	2.51	0.46
33:DI:14:ALA:CB	33:DI:45:THR:HG21	2.45	0.46
33:DI:58:ILE:HG23	33:DI:66:PHE:CD1	2.51	0.46
35:DK:20:MET:HE2	35:DK:22:ILE:HG22	1.97	0.46
36:DL:95:LEU:C	36:DL:97:ALA:N	2.68	0.46
36:DL:99:ASN:ND2	60:DL:302:HOH:O	2.48	0.46
38:DN:113:ILE:HG23	38:DN:113:ILE:O	2.16	0.46
39:DO:105:ALA:O	39:DO:107:ALA:N	2.49	0.46
41:DQ:93:ILE:HD13	42:DR:11:GLN:CB	2.46	0.46
25:DA:24:G:H1'	43:DS:77:ASP:HB3	1.98	0.46
44:DT:23:ALA:O	44:DT:27:SER:HB3	2.16	0.46
48:DX:34:SER:HA	48:DX:49:ARG:HA	1.96	0.46
49:DY:16:THR:CG2	49:DY:17:GLU:N	2.79	0.46
1:AA:1013:G:H3'	1:AA:1013:G:C8	2.51	0.45
1:AA:1076:U:N3	1:AA:1082:A:C2	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1216:A:C5	1:AA:1217:C:C5	3.04	0.45
1:AA:1271:A:H5''	1:AA:1314:C:H5''	1.98	0.45
1:AA:945:G:N1	1:AA:1337:G:C2	2.84	0.45
1:AA:1378:C:C3'	1:AA:1378:C:C6	2.99	0.45
1:AA:1386:G:H2'	1:AA:1387:G:C8	2.51	0.45
1:AA:1441:A:H62	1:AA:1461:G:H21	1.65	0.45
1:AA:159:G:H5''	1:AA:159:G:H8	1.80	0.45
1:AA:293:G:C6	1:AA:294:U:C4	3.04	0.45
1:AA:299:G:C6	1:AA:300:A:C6	3.04	0.45
1:AA:410:G:H5''	1:AA:411:A:P	2.56	0.45
1:AA:418:C:H2'	1:AA:419:C:C6	2.52	0.45
1:AA:435:A:C6	1:AA:436:C:C5	3.04	0.45
1:AA:451:A:N7	1:AA:481:G:C6	2.83	0.45
1:AA:373:A:C2	1:AA:482:A:N6	2.84	0.45
1:AA:525:C:C4	1:AA:526:C:N4	2.84	0.45
1:AA:54:C:O2	1:AA:54:C:H2'	2.16	0.45
1:AA:614:C:H2'	1:AA:615:G:O4'	2.16	0.45
1:AA:71:A:H61	1:AA:99:C:C2'	2.29	0.45
3:AC:100:ILE:O	3:AC:100:ILE:HG23	2.16	0.45
3:AC:110:LEU:HD13	3:AC:203:LYS:HE3	1.98	0.45
4:AD:186:GLU:HA	4:AD:186:GLU:OE1	2.15	0.45
4:AD:91:ALA:O	4:AD:94:GLU:N	2.48	0.45
5:AE:150:GLU:CG	5:AE:151:MET:N	2.80	0.45
5:AE:55:VAL:CB	5:AE:56:PRO:CD	2.94	0.45
1:AA:1379:G:N7	7:AG:1:PRO:HB2	2.30	0.45
8:AH:30:LYS:O	8:AH:31:LEU:C	2.55	0.45
9:AI:123:ARG:CG	9:AI:124:PRO:HD2	2.46	0.45
9:AI:40:ARG:H	9:AI:44:ARG:HB3	1.82	0.45
9:AI:66:VAL:HG21	9:AI:74:GLN:HB3	1.98	0.45
9:AI:91:GLU:C	9:AI:93:LEU:H	2.19	0.45
12:AL:54:VAL:HG21	12:AL:79:ILE:HD11	1.98	0.45
15:AO:87:ARG:O	15:AO:88:ARG:HB2	2.15	0.45
16:AP:51:ARG:HB3	16:AP:51:ARG:HH11	1.81	0.45
20:AT:76:ALA:O	20:AT:79:THR:HB	2.16	0.45
21:AU:28:LEU:O	21:AU:28:LEU:CD2	2.63	0.45
1:BA:1114:C:H2'	1:BA:1114:C:O2	2.16	0.45
1:BA:1202:U:H2'	1:BA:1202:U:O2	2.15	0.45
1:BA:1230:C:O2'	1:BA:1231:G:H5'	2.16	0.45
1:BA:758:C:H2'	1:BA:759:A:OP2	2.17	0.45
1:BA:853:C:C2	1:BA:854:U:C6	3.03	0.45
1:BA:869:G:H4'	1:BA:872:A:C8	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:15:PHE:CE1	2:BB:17:HIS:CE1	3.04	0.45
2:BB:182:VAL:HG12	2:BB:195:VAL:HG13	1.99	0.45
2:BB:205:ALA:C	2:BB:207:ARG:H	2.19	0.45
3:BC:106:ARG:HD3	3:BC:106:ARG:H	1.81	0.45
3:BC:70:ALA:O	3:BC:72:PRO:HD3	2.16	0.45
5:BE:136:VAL:HA	5:BE:139:THR:OG1	2.16	0.45
6:BF:18:VAL:CB	6:BF:19:PRO:HD3	2.45	0.45
6:BF:25:TYR:O	6:BF:27:ALA:N	2.49	0.45
7:BG:145:GLU:OE1	7:BG:148:LYS:CE	2.65	0.45
7:BG:34:LYS:HB2	7:BG:37:THR:HG22	1.95	0.45
7:BG:94:ARG:HG3	7:BG:98:LEU:HG	1.97	0.45
8:BH:100:ILE:HD12	8:BH:100:ILE:H	1.81	0.45
1:BA:1349:A:OP2	9:BI:119:LYS:HE2	2.16	0.45
9:BI:37:TYR:CD2	9:BI:38:PHE:CD2	3.04	0.45
9:BI:47:VAL:HG12	9:BI:78:ILE:HG22	1.98	0.45
9:BI:52:GLU:O	9:BI:54:VAL:O	2.34	0.45
10:BJ:80:THR:O	10:BJ:84:VAL:HB	2.16	0.45
13:BM:51:GLN:O	13:BM:55:LEU:HD12	2.16	0.45
20:BT:43:LYS:NZ	20:BT:85:LEU:O	2.48	0.45
1:BA:1540:U:O3'	21:BU:17:ARG:NH2	2.50	0.45
55:C4:3:VAL:CG1	55:C4:36:ARG:HB3	2.45	0.45
25:CA:1519:G:H2'	25:CA:1520:U:O4'	2.16	0.45
25:CA:1525:A:C2'	25:CA:1526:C:H5'	2.46	0.45
25:CA:1724:G:C5	25:CA:1725:U:C5	3.04	0.45
25:CA:1735:A:C4	25:CA:1736:U:C5	3.04	0.45
25:CA:184:C:H2'	25:CA:185:G:H8	1.81	0.45
25:CA:1928:A:C3'	25:CA:1929:G:H5''	2.46	0.45
25:CA:198:C:H6	25:CA:198:C:O5'	2.00	0.45
25:CA:2039:U:H2'	25:CA:2040:G:C8	2.51	0.45
25:CA:2313:C:H2'	25:CA:2314:A:H5'	1.97	0.45
25:CA:242:G:H5''	54:C3:63:TYR:CZ	2.50	0.45
25:CA:653:U:H2'	25:CA:654:A:OP1	2.16	0.45
25:CA:771:G:C6	25:CA:772:C:C4	3.04	0.45
25:CA:896:A:H5'	25:CA:897:C:OP2	2.16	0.45
25:CA:847:U:O2	25:CA:934:U:H1'	2.16	0.45
29:CE:138:LEU:HD22	29:CE:143:LEU:HB2	1.98	0.45
30:CF:41:GLU:O	30:CF:43:ILE:HG12	2.16	0.45
31:CG:120:ILE:O	31:CG:121:THR:HG23	2.16	0.45
25:CA:2094:A:OP1	32:CH:22:LYS:HD2	2.16	0.45
32:CH:41:LYS:H	32:CH:44:ILE:HG23	1.80	0.45
33:CI:37:PHE:CE1	33:CI:41:PHE:HD1	2.35	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:83:ALA:HB1	33:CI:100:ILE:CD1	2.46	0.45
38:CN:9:GLN:O	38:CN:10:LEU:C	2.55	0.45
44:CT:2:ILE:HG23	44:CT:7:LEU:CD1	2.46	0.45
44:CT:5:GLU:O	44:CT:6:ARG:C	2.54	0.45
25:DA:1347:A:H2'	25:DA:1348:C:O5'	2.16	0.45
25:DA:1429:G:H2'	25:DA:1430:G:H8	1.81	0.45
25:DA:1708:C:O2'	25:DA:1709:U:H5'	2.16	0.45
25:DA:1824:G:H2'	25:DA:1825:U:H5'	1.98	0.45
25:DA:2199:A:C2'	25:DA:2200:C:H5'	2.46	0.45
25:DA:2331:G:C2'	25:DA:2336:A:N1	2.79	0.45
25:DA:2472:G:H3'	25:DA:2473:U:C5'	2.46	0.45
25:DA:2504:U:H5''	25:DA:2505:G:OP2	2.16	0.45
25:DA:260:G:C6	25:DA:261:G:C8	3.04	0.45
25:DA:2640:G:O5'	25:DA:2640:G:H8	1.99	0.45
25:DA:2738:A:C2	25:DA:2739:U:H1'	2.51	0.45
25:DA:2767:C:C2'	25:DA:2768:U:H5'	2.45	0.45
25:DA:2857:G:N2	25:DA:2859:G:H3'	2.31	0.45
25:DA:709:U:C2'	25:DA:710:U:H5'	2.46	0.45
25:DA:78:U:P	49:DY:2:LYS:CD	3.02	0.45
56:DB:24:G:C6	56:DB:56:G:C4	3.04	0.45
56:DB:53:A:H2'	56:DB:53:A:N3	2.30	0.45
27:DC:73:ILE:H	27:DC:73:ILE:HD12	1.78	0.45
28:DD:113:SER:HB3	28:DD:170:VAL:HG21	1.97	0.45
31:DG:30:GLY:N	31:DG:78:VAL:HG12	2.30	0.45
31:DG:7:PRO:HB3	31:DG:49:LEU:O	2.16	0.45
32:DH:143:ILE:CG2	32:DH:144:VAL:N	2.79	0.45
32:DH:2:GLN:HA	32:DH:2:GLN:OE1	2.15	0.45
32:DH:53:GLU:O	32:DH:57:LYS:HB2	2.15	0.45
36:DL:79:LEU:N	36:DL:113:ALA:HB3	2.25	0.45
37:DM:35:ALA:O	37:DM:98:PRO:HA	2.16	0.45
25:DA:1248:G:P	41:DQ:1:ALA:HB3	2.56	0.45
43:DS:59:GLU:HA	43:DS:64:ALA:CA	2.46	0.45
49:DY:31:GLN:HA	49:DY:34:SER:HG	1.82	0.45
1:AA:1032:G:C2	1:AA:1033:G:C1'	2.95	0.45
1:AA:1435:G:O6	1:AA:1465:A:N6	2.49	0.45
1:AA:379:C:H2'	1:AA:380:G:H5'	1.97	0.45
1:AA:414:A:C4	1:AA:415:A:C8	3.04	0.45
1:AA:457:G:C5	1:AA:458:U:C5	3.04	0.45
1:AA:600:A:C4	1:AA:639:G:C2	3.04	0.45
1:AA:794:A:C6	1:AA:795:C:C4	3.04	0.45
1:AA:952:U:H4'	1:AA:964:A:H61	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:139:GLU:O	2:AB:143:LEU:CD2	2.64	0.45
2:AB:209:VAL:O	2:AB:210:THR:C	2.54	0.45
3:AC:89:VAL:O	3:AC:93:ILE:HB	2.16	0.45
6:AF:74:LEU:HD23	6:AF:78:PHE:CZ	2.51	0.45
7:AG:21:LEU:CD1	7:AG:22:LEU:HD23	2.47	0.45
1:AA:1180:A:P	9:AI:104:THR:HG23	2.56	0.45
9:AI:123:ARG:HG3	9:AI:124:PRO:HD2	1.99	0.45
10:AJ:92:LEU:O	10:AJ:93:ALA:HB3	2.15	0.45
13:AM:76:ILE:HG22	13:AM:77:LYS:N	2.31	0.45
13:AM:79:LEU:HD23	13:AM:86:ARG:HD3	1.97	0.45
14:AN:86:GLU:HB3	14:AN:90:ARG:NH2	2.31	0.45
16:AP:70:ARG:HB2	16:AP:70:ARG:HH11	1.81	0.45
19:AS:4:LEU:C	19:AS:5:LYS:HG3	2.36	0.45
20:AT:22:SER:O	20:AT:25:SER:HB3	2.15	0.45
23:AX:5:A:C5'	23:AX:6:G:OP2	2.65	0.45
24:AY:150:SER:C	24:AY:152:ASP:N	2.69	0.45
24:AY:133:ARG:HG2	24:AY:165:THR:OG1	2.17	0.45
1:BA:1137:C:H1'	1:BA:1138:G:N2	2.31	0.45
1:BA:1256:A:N7	1:BA:1258:G:C2	2.84	0.45
1:BA:1266:G:N2	1:BA:1269:A:OP2	2.48	0.45
1:BA:1276:G:H2'	1:BA:1277:C:H6	1.81	0.45
1:BA:1381:U:C5	1:BA:1382:C:H5	2.34	0.45
1:BA:16:A:C5	1:BA:17:U:C5	3.04	0.45
1:BA:2:A:N3	1:BA:613:C:O2'	2.48	0.45
1:BA:516:U:H2'	1:BA:517:G:H5'	1.98	0.45
1:BA:636:U:H2'	1:BA:637:C:C6	2.52	0.45
1:BA:936:C:C2'	1:BA:937:A:H5'	2.46	0.45
1:BA:939:G:C6	1:BA:940:C:N4	2.84	0.45
2:BB:48:MET:C	2:BB:50:ASN:N	2.70	0.45
4:BD:22:SER:O	4:BD:26:ALA:HB2	2.16	0.45
5:BE:14:LEU:CD1	5:BE:14:LEU:C	2.84	0.45
7:BG:22:LEU:O	7:BG:26:VAL:HG22	2.16	0.45
7:BG:55:LYS:O	7:BG:56:SER:O	2.35	0.45
5:BE:154:ALA:HB1	8:BH:65:PHE:CD2	2.51	0.45
9:BI:19:PHE:HB2	9:BI:63:TYR:O	2.17	0.45
9:BI:59:LYS:O	9:BI:59:LYS:HD2	2.17	0.45
10:BJ:57:VAL:HG22	10:BJ:58:ASN:H	1.81	0.45
13:BM:21:ILE:CG2	13:BM:22:TYR:N	2.79	0.45
13:BM:36:ALA:HB3	13:BM:38:ILE:HG12	1.98	0.45
19:BS:35:ARG:O	19:BS:36:ARG:C	2.54	0.45
25:CA:1075:C:C6	25:CA:1075:C:C3'	2.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1292:G:C2'	25:CA:1293:C:O5'	2.65	0.45
25:CA:1301:A:C2	25:CA:1303:G:C6	3.03	0.45
25:CA:1681:G:N3	25:CA:1762:A:H2'	2.31	0.45
25:CA:1766:G:O2'	25:CA:1767:G:H5'	2.16	0.45
25:CA:2171:A:H3'	25:CA:2173:A:C8	2.51	0.45
25:CA:2228:G:H2'	25:CA:2229:U:C6	2.50	0.45
25:CA:2332:C:H2'	25:CA:2335:A:N3	2.31	0.45
25:CA:2393:U:O3'	36:CL:62:PRO:HA	2.15	0.45
25:CA:411:G:OP2	25:CA:2406:A:O2'	2.31	0.45
30:CF:56:LEU:HD12	30:CF:64:PRO:HB2	1.97	0.45
31:CG:34:ARG:HG2	31:CG:35:THR:H	1.81	0.45
31:CG:51:PHE:CD2	31:CG:51:PHE:N	2.84	0.45
33:CI:100:ILE:HG22	33:CI:104:GLN:CB	2.45	0.45
35:CK:122:VAL:OXT	35:CK:122:VAL:CG1	2.64	0.45
36:CL:81:ASP:CG	36:CL:100:ILE:HD13	2.37	0.45
37:CM:57:VAL:O	37:CM:57:VAL:HG23	2.15	0.45
40:CP:8:GLU:HB3	40:CP:54:LEU:HB2	1.99	0.45
41:CQ:91:ARG:H	41:CQ:91:ARG:HG2	1.62	0.45
49:CY:28:LEU:HD23	49:CY:37:LEU:HD21	1.98	0.45
50:CZ:41:PRO:O	50:CZ:45:GLY:N	2.49	0.45
52:D1:8:ILE:HD11	52:D1:22:THR:CG2	2.46	0.45
25:DA:1124:G:C2'	25:DA:1125:G:H5'	2.47	0.45
25:DA:1179:G:C8	25:DA:1180:U:O4'	2.70	0.45
25:DA:1359:A:N6	25:DA:1360:G:C2	2.84	0.45
25:DA:1416:G:C4	25:DA:1417:C:C5	3.03	0.45
25:DA:1576:U:O2'	25:DA:1577:C:H5'	2.16	0.45
25:DA:1775:U:P	60:DA:3454:HOH:O	2.74	0.45
25:DA:2114:A:N3	25:DA:2114:A:H2'	2.30	0.45
25:DA:2221:G:H2'	25:DA:2222:C:H5'	1.97	0.45
25:DA:2248:C:H6	25:DA:2248:C:O5'	1.99	0.45
25:DA:2347:C:C2	25:DA:2348:U:C5	3.04	0.45
25:DA:2377:A:O2'	25:DA:2378:A:H5'	2.16	0.45
25:DA:258:G:H8	25:DA:258:G:O5'	1.99	0.45
25:DA:2785:C:H2'	25:DA:2786:U:H6	1.81	0.45
25:DA:40:U:H2'	25:DA:41:C:C6	2.51	0.45
25:DA:447:A:C5	25:DA:454:A:N7	2.84	0.45
25:DA:490:C:H4'	25:DA:491:G:OP2	2.16	0.45
25:DA:88:G:H2'	25:DA:89:A:C5'	2.46	0.45
28:DD:15:PHE:HA	28:DD:20:VAL:O	2.17	0.45
29:DE:28:VAL:O	29:DE:32:VAL:HG23	2.16	0.45
33:DI:99:LYS:HA	33:DI:138:VAL:H	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:9:LYS:CB	33:DI:55:PRO:CB	2.88	0.45
36:DL:132:ARG:HG3	36:DL:142:ILE:CD1	2.46	0.45
37:DM:65:ILE:O	37:DM:65:ILE:HG22	2.16	0.45
38:DN:76:VAL:O	38:DN:79:LEU:HD12	2.15	0.45
25:DA:997:G:H5''	41:DQ:91:ARG:HH21	1.80	0.45
45:DU:39:ASN:CB	45:DU:62:ALA:O	2.64	0.45
48:DX:70:LEU:HB2	48:DX:75:GLU:HB2	1.97	0.45
1:AA:1071:C:N3	1:AA:1105:A:C2	2.83	0.45
1:AA:1285:A:C5'	1:AA:1286:U:C4	2.98	0.45
1:AA:1293:C:H2'	1:AA:1293:C:O2	2.16	0.45
1:AA:1304:G:C6	1:AA:1305:G:N1	2.84	0.45
1:AA:1317:C:H2'	1:AA:1318:A:O5'	2.16	0.45
1:AA:1348:U:O4	1:AA:1374:A:C8	2.70	0.45
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.46	0.45
1:AA:375:U:N3	1:AA:376:G:C8	2.85	0.45
1:AA:438:U:O2'	1:AA:439:U:P	2.75	0.45
1:AA:632:U:C6	1:AA:632:U:C3'	2.99	0.45
1:AA:632:U:C2'	1:AA:633:G:OP1	2.64	0.45
1:AA:79:G:H2'	1:AA:80:A:C8	2.51	0.45
1:AA:865:A:H2	1:AA:918:A:H4'	1.81	0.45
2:AB:80:LYS:CG	2:AB:84:LEU:HD22	2.47	0.45
5:AE:131:ASN:ND2	5:AE:131:ASN:C	2.68	0.45
5:AE:76:ASN:O	5:AE:77:ASN:HB2	2.16	0.45
5:AE:90:GLY:O	5:AE:128:GLY:HA3	2.15	0.45
6:AF:25:TYR:N	6:AF:25:TYR:CD2	2.84	0.45
7:AG:22:LEU:O	7:AG:25:PHE:HB3	2.17	0.45
9:AI:7:GLY:HA3	9:AI:84:ARG:C	2.36	0.45
16:AP:72:ALA:O	16:AP:75:ILE:HD12	2.15	0.45
17:AQ:15:LYS:N	17:AQ:16:MET:CE	2.80	0.45
19:AS:74:ALA:N	19:AS:75:PRO:HD2	2.32	0.45
20:AT:20:ASN:HB3	20:AT:65:LEU:HD22	1.99	0.45
24:AY:177:ALA:O	24:AY:178:ASP:C	2.53	0.45
24:AY:74:SER:O	24:AY:77:PRO:HD2	2.16	0.45
1:BA:1000:A:C2	1:BA:1001:C:C2	3.05	0.45
1:BA:1086:U:O2'	1:BA:1087:G:C5'	2.64	0.45
1:BA:1095:U:H5'	1:BA:1109:C:O2	2.16	0.45
1:BA:1435:G:H2'	1:BA:1436:U:C6	2.51	0.45
1:BA:294:U:H2'	1:BA:295:C:C6	2.52	0.45
1:BA:369:G:H2'	1:BA:370:C:O5'	2.16	0.45
1:BA:522:C:H2'	1:BA:523:A:O4'	2.16	0.45
1:BA:613:C:H2'	1:BA:614:C:C6	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:150:ILE:C	2:BB:152:ASP:N	2.68	0.45
2:BB:172:ILE:O	2:BB:173:LYS:C	2.55	0.45
3:BC:46:LEU:HB3	3:BC:49:ALA:CB	2.45	0.45
3:BC:54:ILE:HD13	3:BC:56:ILE:HD11	1.97	0.45
3:BC:6:PRO:C	3:BC:9:ILE:HG22	2.37	0.45
4:BD:5:GLY:O	4:BD:6:PRO:C	2.53	0.45
6:BF:74:LEU:O	6:BF:76:THR:N	2.49	0.45
1:BA:1151:A:C5'	10:BJ:44:THR:H	2.29	0.45
13:BM:57:ASP:O	13:BM:60:ALA:N	2.49	0.45
18:BR:24:ASP:CB	18:BR:27:THR:HB	2.46	0.45
20:BT:7:LYS:H	20:BT:7:LYS:HG2	1.55	0.45
11:BK:109:ILE:CG2	21:BU:16:ARG:CZ	2.93	0.45
22:BV:76:A:N6	25:DA:2450:A:O2'	2.49	0.45
25:CA:1059:G:O2'	33:CI:128:ILE:HA	2.16	0.45
25:CA:1080:A:N3	25:CA:1080:A:C2'	2.79	0.45
25:CA:1169:A:O5'	25:CA:1169:A:H8	1.99	0.45
25:CA:1461:C:H2'	25:CA:1462:C:O5'	2.16	0.45
25:CA:1534:U:H5'	25:CA:1535:A:P	2.56	0.45
25:CA:1641:A:H2'	25:CA:1642:G:O4'	2.16	0.45
25:CA:1712:U:C4	25:CA:1713:A:C6	3.05	0.45
25:CA:1870:C:H5''	25:CA:1871:A:C8	2.51	0.45
25:CA:1889:A:C2'	25:CA:1890:A:O5'	2.63	0.45
25:CA:2070:A:C2	25:CA:2442:C:C2	3.05	0.45
25:CA:2218:G:O2'	25:CA:2219:U:H5'	2.17	0.45
25:CA:2298:A:H2'	25:CA:2298:A:N3	2.31	0.45
25:CA:807:U:H1'	25:CA:2445:G:OP1	2.16	0.45
25:CA:536:G:H2'	25:CA:537:G:O5'	2.16	0.45
25:CA:545:U:H6	25:CA:548:G:P	2.39	0.45
25:CA:813:U:H2'	25:CA:814:C:C6	2.51	0.45
27:CC:74:PRO:HB2	27:CC:96:LYS:HD3	1.97	0.45
28:CD:136:ASN:HD21	28:CD:139:SER:C	2.20	0.45
29:CE:154:ASP:C	29:CE:154:ASP:OD2	2.55	0.45
30:CF:135:ILE:O	30:CF:135:ILE:HG22	2.15	0.45
31:CG:145:ALA:O	31:CG:148:ARG:HB3	2.16	0.45
31:CG:82:PHE:N	31:CG:82:PHE:CD2	2.83	0.45
33:CI:85:ILE:HG12	33:CI:88:GLY:HA2	1.97	0.45
36:CL:127:VAL:HG13	36:CL:131:ALA:HB3	1.97	0.45
37:CM:53:MET:HE2	37:CM:53:MET:HB3	1.89	0.45
25:CA:2469:A:C4'	37:CM:55:ARG:HH12	2.23	0.45
38:CN:20:MET:HG2	38:CN:21:PHE:N	2.31	0.45
39:CO:89:ASP:HA	39:CO:116:GLN:HB3	1.96	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CP:103:THR:O	40:CP:104:GLY:C	2.54	0.45
41:CQ:56:PHE:O	41:CQ:57:ARG:C	2.52	0.45
46:CV:21:ARG:HA	46:CV:25:LYS:O	2.17	0.45
50:CZ:53:MET:O	50:CZ:54:VAL:CG1	2.65	0.45
25:DA:1146:C:H2'	25:DA:1146:C:O2	2.16	0.45
25:DA:1188:U:H2'	25:DA:1189:A:O5'	2.17	0.45
25:DA:1356:G:O2'	25:DA:1357:C:H5'	2.17	0.45
25:DA:1509:A:O2'	25:DA:1510:G:P	2.74	0.45
25:DA:1718:G:N2	25:DA:1719:G:H1'	2.31	0.45
25:DA:2211:A:C1'	25:DA:2212:A:OP1	2.64	0.45
25:DA:2316:G:N2	25:DA:2317:A:H1'	2.30	0.45
25:DA:410:G:O3'	25:DA:2407:A:OP2	2.34	0.45
25:DA:2604:U:C2'	25:DA:2605:U:O5'	2.65	0.45
25:DA:2803:G:O2'	25:DA:2804:U:O5'	2.34	0.45
25:DA:280:U:N3	25:DA:281:C:C4	2.85	0.45
25:DA:2888:C:H2'	25:DA:2888:C:O2	2.16	0.45
25:DA:714:U:H5'	25:DA:715:A:OP2	2.17	0.45
25:DA:870:U:C4	25:DA:871:U:H5	2.34	0.45
25:DA:878:A:C6	25:DA:900:A:C8	3.05	0.45
25:DA:930:G:C1'	50:DZ:24:LEU:HD21	2.47	0.45
25:DA:843:G:C6	25:DA:936:A:N1	2.85	0.45
28:DD:1:MET:HE3	28:DD:1:MET:H3	1.81	0.45
31:DG:109:SER:O	31:DG:110:HIS:HB3	2.17	0.45
31:DG:26:LYS:CB	31:DG:31:GLU:CG	2.94	0.45
31:DG:61:TRP:O	31:DG:64:ALA:N	2.49	0.45
32:DH:40:THR:O	32:DH:42:LYS:HB3	2.16	0.45
35:DK:114:LYS:O	35:DK:114:LYS:HD2	2.16	0.45
35:DK:58:LEU:N	35:DK:58:LEU:CD2	2.79	0.45
37:DM:26:VAL:CG1	37:DM:104:GLU:OE2	2.64	0.45
38:DN:24:MET:CE	38:DN:44:LEU:HB2	2.45	0.45
38:DN:29:VAL:HG12	38:DN:30:ARG:N	2.31	0.45
39:DO:116:GLN:N	39:DO:116:GLN:OE1	2.50	0.45
39:DO:66:GLY:HA2	39:DO:102:ARG:NH2	2.32	0.45
39:DO:7:ARG:HG2	39:DO:7:ARG:O	2.16	0.45
40:DP:45:VAL:HG12	40:DP:46:VAL:N	2.31	0.45
41:DQ:81:GLY:O	41:DQ:82:LEU:C	2.55	0.45
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.17	0.45
1:AA:1277:C:H1'	1:AA:1282:C:H1'	1.99	0.45
1:AA:1270:G:O3'	1:AA:1314:C:H5'	2.15	0.45
1:AA:1422:G:N2	1:AA:1423:G:C4	2.85	0.45
1:AA:1475:G:C2'	1:AA:1476:A: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:1492:A:N3	25:CA:1913:A:N6	2.65	0.45
1:AA:261:U:C5	20:AT:73:ARG:NH1	2.85	0.45
1:AA:403:C:O2'	1:AA:404:G:H5'	2.16	0.45
1:AA:451:A:H5'	16:AP:70:ARG:HH22	1.81	0.45
1:AA:939:G:C6	1:AA:940:C:N4	2.84	0.45
2:AB:14:HIS:C	2:AB:14:HIS:CD2	2.89	0.45
2:AB:53:LEU:HD13	2:AB:56:LEU:HD12	1.98	0.45
2:AB:95:TRP:CZ3	2:AB:97:GLY:HA2	2.51	0.45
3:AC:6:PRO:HG2	3:AC:183:TYR:CD1	2.52	0.45
3:AC:52:SER:OG	3:AC:52:SER:O	2.32	0.45
4:AD:77:GLU:O	4:AD:80:ARG:N	2.49	0.45
10:AJ:53:ILE:HG22	10:AJ:54:SER:N	2.31	0.45
13:AM:38:ILE:N	13:AM:38:ILE:HD13	2.32	0.45
17:AQ:44:HIS:ND1	17:AQ:69:THR:HG21	2.30	0.45
21:AU:7:GLU:CB	21:AU:11:PHE:HZ	2.26	0.45
23:AX:7:G:H2'	23:AX:8:A:O4'	2.17	0.45
1:BA:1096:C:N4	1:BA:1097:C:N4	2.65	0.45
1:BA:1154:G:C2	1:BA:1155:A:C8	3.04	0.45
1:BA:1187:G:H2'	1:BA:1188:A:H8	1.81	0.45
1:BA:149:A:H2'	1:BA:149:A:N3	2.32	0.45
1:BA:1506:U:H2'	60:BA:1884:HOH:O	2.17	0.45
1:BA:253:A:C2	1:BA:254:G:C4	3.04	0.45
1:BA:983:A:O2'	1:BA:984:C:O5'	2.33	0.45
2:BB:153:MET:O	2:BB:154:GLY:O	2.35	0.45
5:BE:57:ALA:O	5:BE:60:GLN:HB3	2.16	0.45
6:BF:6:ILE:HB	6:BF:62:MET:HB3	1.98	0.45
7:BG:72:VAL:HG12	7:BG:89:GLU:HA	1.98	0.45
8:BH:74:ILE:HA	8:BH:127:TYR:O	2.16	0.45
9:BI:47:VAL:O	9:BI:50:PRO:HD2	2.16	0.45
10:BJ:6:ILE:O	10:BJ:8:ILE:N	2.50	0.45
11:BK:63:GLN:O	11:BK:66:ALA:HB3	2.16	0.45
13:BM:63:VAL:O	13:BM:68:LEU:HD13	2.16	0.45
17:BQ:35:LYS:CG	17:BQ:37:ILE:HD11	2.47	0.45
19:BS:9:PHE:CD1	19:BS:9:PHE:C	2.90	0.45
21:BU:8:ASN:OD1	21:BU:8:ASN:N	2.49	0.45
22:BV:5:G:C4	22:BV:69:G:N2	2.84	0.45
25:CA:245:G:O6	54:C3:7:ARG:CD	2.64	0.45
25:CA:1056:G:H4'	25:CA:1086:A:H8	1.77	0.45
25:CA:1173:U:H2'	25:CA:1173:U:O2	2.17	0.45
25:CA:1735:A:H2'	25:CA:1736:U:H6	1.82	0.45
25:CA:2157:G:H8	25:CA:2157:G:OP2	2.00	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:866:A:C5	25:CA:867:C:C5	3.05	0.45
27:CC:202:ARG:O	27:CC:202:ARG:HG2	2.15	0.45
33:CI:75:ALA:HB1	33:CI:128:ILE:HG23	1.98	0.45
37:CM:14:LYS:HE3	37:CM:14:LYS:HB2	1.80	0.45
37:CM:24:THR:HG22	37:CM:25:ASP:OD1	2.15	0.45
38:CN:63:ARG:HG3	38:CN:80:PHE:CE1	2.51	0.45
40:CP:30:TRP:CE2	40:CP:39:LEU:CD1	2.99	0.45
41:CQ:86:SER:HB2	42:CR:51:VAL:HA	1.98	0.45
46:CV:48:MET:HA	46:CV:51:GLN:HG2	1.98	0.45
55:D4:22:VAL:HG11	55:D4:36:ARG:HG2	1.99	0.45
25:DA:1361:G:C5	25:DA:1371:G:N2	2.85	0.45
25:DA:1556:C:H2'	25:DA:1557:C:O5'	2.16	0.45
25:DA:181:A:C4	25:DA:435:C:C6	3.04	0.45
25:DA:186:G:C2'	25:DA:187:G:H5'	2.45	0.45
25:DA:2007:U:O5'	25:DA:2007:U:H6	1.99	0.45
25:DA:2756:U:C4'	25:DA:2757:A:O5'	2.65	0.45
25:DA:282:A:C2	25:DA:283:G:C5	3.04	0.45
25:DA:319:G:O2'	25:DA:320:A:O5'	2.34	0.45
25:DA:322:A:H5'	25:DA:340:A:H1'	1.98	0.45
25:DA:359:G:C6	25:DA:360:U:C2	3.04	0.45
25:DA:398:C:OP1	48:DX:52:ALA:CB	2.64	0.45
25:DA:64:A:C6	25:DA:65:U:C4	3.04	0.45
25:DA:840:C:O2	25:DA:939:G:C6	2.69	0.45
27:DC:144:GLU:HG2	27:DC:151:GLY:N	2.29	0.45
28:DD:85:ALA:HB3	28:DD:88:GLU:HG3	1.97	0.45
56:DB:43:C:O2	30:DF:89:THR:HG21	2.16	0.45
30:DF:5:ASP:HA	30:DF:8:LYS:HD2	1.98	0.45
33:DI:53:PRO:O	33:DI:74:PRO:HD2	2.15	0.45
37:DM:130:PHE:HD2	37:DM:131:VAL:N	2.14	0.45
25:DA:2293:G:H5''	39:DO:94:ARG:HH12	1.82	0.45
40:DP:74:GLN:O	40:DP:77:SER:HB3	2.16	0.45
42:DR:79:ARG:HG3	42:DR:79:ARG:O	2.17	0.45
45:DU:52:ASN:OD1	45:DU:52:ASN:N	2.50	0.45
45:DU:6:ARG:O	45:DU:8:ASP:HB3	2.16	0.45
57:DW:33:ILE:HG21	57:DW:76:ILE:HG21	1.97	0.45
1:AA:1021:A:H2'	1:AA:1022:A:O4'	2.15	0.45
1:AA:1048:G:OP1	14:AN:2:LYS:HA	2.16	0.45
1:AA:1098:C:C4	1:AA:1099:G:N7	2.85	0.45
1:AA:1217:C:C2	1:AA:1218:C:C5	3.03	0.45
1:AA:1241:G:N3	1:AA:1242:G:C8	2.84	0.45
1:AA:67:C:H4'	1:AA:172:A:O4'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:264:C:N4	1:AA:265:G:C6	2.85	0.45
1:AA:539:A:H2'	1:AA:540:G:C8	2.50	0.45
1:AA:549:C:C2'	1:AA:550:G:O5'	2.64	0.45
1:AA:71:A:C3'	1:AA:71:A:OP2	2.62	0.45
1:AA:781:A:C5	1:AA:802:A:C2	3.04	0.45
1:AA:918:A:C2'	1:AA:919:A:O5'	2.64	0.45
1:AA:93:U:C2'	1:AA:94:G:H5''	2.47	0.45
1:AA:69:G:O6	1:AA:98:A:N6	2.50	0.45
2:AB:196:ASP:N	2:AB:196:ASP:OD1	2.49	0.45
2:AB:216:VAL:HA	2:AB:219:THR:CG2	2.46	0.45
3:AC:135:ARG:O	3:AC:138:GLN:HB2	2.16	0.45
4:AD:115:GLN:HE21	4:AD:115:GLN:HA	1.82	0.45
4:AD:176:LYS:HB3	4:AD:178:GLU:HG2	1.98	0.45
5:AE:33:THR:HG22	5:AE:51:LYS:CB	2.45	0.45
5:AE:79:THR:HG23	5:AE:80:LEU:O	2.16	0.45
6:AF:1:MET:HG3	6:AF:66:ALA:C	2.37	0.45
7:AG:24:LYS:HB3	7:AG:100:MET:HE1	1.99	0.45
7:AG:61:PHE:CD1	7:AG:62:GLU:N	2.85	0.45
7:AG:70:PRO:O	7:AG:95:ARG:HD3	2.15	0.45
14:AN:42:TRP:N	14:AN:42:TRP:CE3	2.84	0.45
19:AS:19:GLU:C	19:AS:21:ALA:N	2.69	0.45
21:AU:33:ARG:HH22	21:AU:34:ARG:HD2	1.81	0.45
1:BA:1204:A:H2'	1:BA:1205:U:O4'	2.17	0.45
1:BA:1350:A:H2'	1:BA:1351:U:O4'	2.17	0.45
1:BA:1355:G:C2	1:BA:1356:G:C4	3.05	0.45
1:BA:190:A:C2'	1:BA:191:G:O5'	2.64	0.45
1:BA:428:G:O4'	1:BA:430:A:C8	2.70	0.45
1:BA:623:C:N3	1:BA:624:C:C5	2.84	0.45
1:BA:791:G:C5	1:BA:792:A:N7	2.84	0.45
1:BA:577:G:C8	1:BA:816:A:N1	2.85	0.45
1:BA:827:U:O4	1:BA:870:U:C2	2.69	0.45
1:BA:952:U:H2'	1:BA:953:G:H8	1.81	0.45
2:BB:165:ALA:CB	2:BB:186:VAL:HG12	2.44	0.45
2:BB:187:ASP:OD2	2:BB:202:ASN:HA	2.16	0.45
3:BC:137:VAL:O	3:BC:138:GLN:C	2.55	0.45
3:BC:182:ASP:HB2	3:BC:203:LYS:HE3	1.97	0.45
4:BD:129:VAL:HG11	4:BD:134:TYR:CD1	2.51	0.45
5:BE:130:THR:O	5:BE:130:THR:HG23	2.17	0.45
5:BE:80:LEU:HB3	5:BE:146:MET:HE3	1.99	0.45
7:BG:145:GLU:C	7:BG:147:ASN:N	2.69	0.45
8:BH:41:GLU:CD	8:BH:41:GLU:O	2.54	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:24:GLU:C	10:BJ:26:VAL:N	2.69	0.45
11:BK:87:GLY:N	11:BK:113:THR:HG22	2.31	0.45
12:BL:17:LYS:C	12:BL:17:LYS:HD2	2.36	0.45
1:BA:1328:C:H5''	13:BM:27:THR:HB	1.99	0.45
16:BP:20:VAL:CG2	16:BP:32:PHE:HB2	2.46	0.45
16:BP:52:LEU:CD2	16:BP:54:LEU:HD21	2.46	0.45
20:BT:28:ARG:O	20:BT:32:LYS:HG2	2.16	0.45
20:BT:42:ASP:HB2	20:BT:45:ALA:HB3	1.93	0.45
1:BA:1341:U:H5'	22:BV:32:U:H5''	1.98	0.45
55:C4:3:VAL:O	55:C4:4:ARG:HB3	2.16	0.45
25:CA:1098:A:H5'	25:CA:1099:G:OP2	2.17	0.45
25:CA:138:U:OP2	25:CA:139:U:H5''	2.16	0.45
25:CA:1413:A:N1	25:CA:1590:A:C2	2.84	0.45
25:CA:196:A:N3	25:CA:196:A:H2'	2.31	0.45
25:CA:205:G:O2'	25:CA:206:U:P	2.74	0.45
25:CA:2154:A:C2	25:CA:2155:U:C4	3.05	0.45
25:CA:21:A:O2'	25:CA:22:C:H5'	2.17	0.45
25:CA:2204:G:O5'	27:CC:149:LYS:CE	2.65	0.45
28:CD:56:LYS:O	28:CD:57:ALA:O	2.35	0.45
30:CF:110:ILE:HB	30:CF:113:PHE:HB2	1.98	0.45
32:CH:104:THR:HG22	32:CH:109:GLU:HA	1.98	0.45
33:CI:33:ASN:CB	33:CI:36:GLU:HG3	2.38	0.45
36:CL:132:ARG:NH1	36:CL:142:ILE:HG21	2.31	0.45
38:CN:32:GLU:CD	38:CN:86:ARG:HH22	2.19	0.45
46:CV:25:LYS:HE2	46:CV:43:ASP:HB2	1.98	0.45
50:CZ:34:THR:HG22	50:CZ:35:VAL:H	1.82	0.45
25:DA:1026:G:OP1	25:DA:1134:A:H1'	2.16	0.45
25:DA:71:A:OP2	25:DA:113:U:C5'	2.64	0.45
25:DA:1315:C:C2'	25:DA:1316:U:O5'	2.64	0.45
25:DA:1589:U:H2'	25:DA:1590:A:H8	1.78	0.45
25:DA:1738:G:O2'	25:DA:1739:A:OP2	2.34	0.45
25:DA:2478:A:C2	25:DA:2529:G:H2'	2.52	0.45
25:DA:2648:G:C5	25:DA:2649:C:C4	3.04	0.45
25:DA:2679:A:O2'	25:DA:2680:U:H5'	2.16	0.45
25:DA:2854:G:H2'	25:DA:2855:C:O5'	2.17	0.45
25:DA:558:U:O5'	25:DA:558:U:H6	1.99	0.45
56:DB:28:C:H2'	56:DB:29:A:C8	2.51	0.45
27:DC:106:PRO:HD2	27:DC:109:LEU:HD22	1.99	0.45
27:DC:119:VAL:HG13	27:DC:132:ARG:HH11	1.81	0.45
27:DC:69:ASN:O	27:DC:70:LYS:C	2.54	0.45
28:DD:105:LYS:O	28:DD:177:VAL:HG12	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DG:83:THR:HG23	31:DG:133:LYS:HG3	1.97	0.45
32:DH:9:VAL:HG12	32:DH:12:LEU:HG	1.99	0.45
32:DH:9:VAL:HA	32:DH:35:LYS:HE2	1.98	0.45
33:DI:17:ALA:O	33:DI:18:ASN:CB	2.64	0.45
36:DL:96:LYS:CE	36:DL:103:ILE:O	2.65	0.45
38:DN:103:ARG:NE	38:DN:110:MET:CE	2.79	0.45
38:DN:37:THR:OG1	38:DN:40:LYS:HB2	2.17	0.45
38:DN:86:ARG:O	38:DN:86:ARG:HG2	2.17	0.45
39:DO:47:VAL:O	39:DO:48:LEU:CD2	2.65	0.45
40:DP:5:LYS:O	40:DP:9:GLN:HG2	2.17	0.45
43:DS:89:ALA:O	43:DS:90:LYS:HB2	2.16	0.45
45:DU:55:GLY:O	45:DU:56:GLY:O	2.35	0.45
46:DV:75:GLN:CB	46:DV:92:VAL:HG23	2.47	0.45
1:AA:1004:A:C2	1:AA:1026:G:N3	2.85	0.45
1:AA:1319:A:C8	1:AA:1323:G:C5	3.04	0.45
1:AA:144:G:N2	1:AA:145:G:H1'	2.31	0.45
1:AA:737:C:C2'	1:AA:738:C:O5'	2.64	0.45
1:AA:900:A:H2'	1:AA:901:A:C8	2.52	0.45
1:AA:953:G:C2	1:AA:1229:A:C2	3.04	0.45
1:AA:957:U:H1'	1:AA:960:U:N3	2.31	0.45
1:AA:992:U:H4'	1:AA:993:G:O5'	2.17	0.45
4:AD:56:GLU:OE2	4:AD:59:LYS:HE3	2.16	0.45
6:AF:4:TYR:OH	6:AF:68:GLN:HB3	2.17	0.45
6:AF:92:THR:CG2	6:AF:93:LYS:N	2.74	0.45
7:AG:91:ARG:O	7:AG:95:ARG:HB2	2.17	0.45
9:AI:18:VAL:HG11	9:AI:82:ILE:CA	2.46	0.45
9:AI:20:ILE:CD1	9:AI:86:LEU:HD12	2.47	0.45
10:AJ:40:ILE:CB	10:AJ:73:LEU:HB2	2.46	0.45
10:AJ:35:GLN:HG2	10:AJ:78:GLU:N	2.31	0.45
11:AK:75:GLU:CA	11:AK:75:GLU:OE1	2.65	0.45
17:AQ:13:SER:CB	17:AQ:21:VAL:HG12	2.46	0.45
17:AQ:4:ILE:HG22	17:AQ:5:ARG:HG3	1.99	0.45
20:AT:22:SER:O	20:AT:23:ARG:C	2.55	0.45
1:AA:176:C:H5''	20:AT:23:ARG:NH1	2.31	0.45
1:BA:1079:G:C6	1:BA:1080:A:N6	2.84	0.45
1:BA:1151:A:C2	1:BA:1152:A:C8	3.04	0.45
1:BA:1050:G:N2	1:BA:1209:C:C2	2.85	0.45
1:BA:1211:U:H1'	1:BA:1213:A:N1	2.31	0.45
1:BA:1374:A:H2'	1:BA:1375:A:H5'	1.99	0.45
1:BA:1386:G:C2	1:BA:1387:G:C5	3.05	0.45
1:BA:1422:G:N3	1:BA:1423:G:C8	2.84	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:220:G:C2'	1:BA:221:C:O5'	2.64	0.45
1:BA:273:U:N3	1:BA:274:A:N7	2.64	0.45
1:BA:415:A:H2'	1:BA:416:G:O4'	2.16	0.45
1:BA:476:U:O2	1:BA:476:U:H2'	2.16	0.45
1:BA:587:G:C2	1:BA:755:G:C5	3.04	0.45
1:BA:688:G:C5	1:BA:700:G:C2	3.05	0.45
1:BA:715:A:H2'	1:BA:716:A:C8	2.52	0.45
2:BB:174:GLU:O	2:BB:178:LEU:CD2	2.65	0.45
2:BB:183:PHE:HB3	2:BB:199:ILE:HD11	1.99	0.45
3:BC:106:ARG:HD3	3:BC:106:ARG:N	2.31	0.45
3:BC:123:LEU:HD21	3:BC:129:PHE:HB3	1.98	0.45
3:BC:133:MET:HE3	3:BC:167:TYR:CB	2.47	0.45
3:BC:71:ARG:HB3	3:BC:74:ILE:HG21	1.96	0.45
4:BD:191:SER:O	4:BD:192:ALA:HB3	2.17	0.45
1:BA:28:A:OP1	4:BD:72:ARG:NH2	2.50	0.45
5:BE:104:ILE:H	5:BE:121:ASN:C	2.20	0.45
6:BF:40:GLU:HB3	6:BF:42:TRP:HE1	1.81	0.45
6:BF:82:ASP:N	6:BF:82:ASP:OD2	2.49	0.45
6:BF:97:THR:O	6:BF:98:GLU:CG	2.64	0.45
6:BF:97:THR:O	6:BF:98:GLU:HB3	2.16	0.45
1:BA:1240:U:C4	7:BG:115:MET:HG2	2.52	0.45
8:BH:30:LYS:HE3	8:BH:30:LYS:HA	1.98	0.45
8:BH:85:TYR:O	8:BH:86:LYS:CE	2.65	0.45
9:BI:89:TYR:CB	9:BI:93:LEU:HD11	2.47	0.45
10:BJ:36:VAL:HG12	10:BJ:38:GLY:H	1.82	0.45
1:BA:972:C:H4'	10:BJ:59:LYS:HG3	1.99	0.45
10:BJ:80:THR:OG1	10:BJ:83:THR:HB	2.16	0.45
11:BK:37:GLN:HB2	11:BK:39:ASN:ND2	2.32	0.45
12:BL:3:VAL:HG13	12:BL:4:ASN:N	2.32	0.45
13:BM:4:ALA:HB2	13:BM:56:ARG:CG	2.46	0.45
14:BN:27:LYS:HG3	14:BN:28:ALA:N	2.31	0.45
14:BN:15:LEU:O	14:BN:55:SER:CB	2.65	0.45
16:BP:6:LEU:HB3	16:BP:17:TYR:CD2	2.52	0.45
52:C1:16:THR:CG2	52:C1:41:VAL:CG1	2.95	0.45
25:CA:1076:C:H2'	25:CA:1077:A:C1'	2.46	0.45
25:CA:1174:U:O4'	25:CA:1174:U:O2	2.35	0.45
25:CA:1180:U:C2'	25:CA:1181:U:H5'	2.42	0.45
25:CA:1293:C:H2'	25:CA:1294:U:O5'	2.16	0.45
25:CA:1358:G:C2'	25:CA:1359:A:OP2	2.64	0.45
25:CA:1392:A:N6	25:CA:1393:A:N6	2.64	0.45
25:CA:1833:C:C4	25:CA:1834:U:C4	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1869:G:C5	25:CA:1871:A:OP2	2.70	0.45
25:CA:188:G:H2'	25:CA:189:G:C5'	2.46	0.45
25:CA:2103:C:O2'	25:CA:2104:C:H5'	2.17	0.45
25:CA:225:C:H2'	25:CA:226:A:H5'	1.98	0.45
25:CA:2723:C:C2'	25:CA:2724:U:O5'	2.65	0.45
25:CA:2820:A:H4'	38:CN:3:HIS:HD2	1.74	0.45
25:CA:60:G:HO2'	25:CA:61:C:P	2.39	0.45
25:CA:823:C:C2'	25:CA:824:U:H5'	2.47	0.45
25:CA:960:A:C5'	25:CA:961:C:OP2	2.58	0.45
26:CB:39:A:C2	26:CB:44:G:N3	2.84	0.45
27:CC:251:THR:O	27:CC:252:LYS:C	2.54	0.45
27:CC:9:SER:O	27:CC:10:PRO:C	2.53	0.45
30:CF:34:THR:HA	30:CF:88:VAL:O	2.17	0.45
32:CH:132:PHE:CE2	32:CH:142:VAL:HG23	2.52	0.45
32:CH:54:LEU:HD22	32:CH:54:LEU:HA	1.80	0.45
33:CI:103:ALA:O	33:CI:105:LEU:N	2.50	0.45
36:CL:110:VAL:HG12	36:CL:110:VAL:O	2.17	0.45
36:CL:37:GLY:O	36:CL:41:ARG:HG3	2.16	0.45
38:CN:10:LEU:O	38:CN:11:ASN:C	2.53	0.45
40:CP:9:GLN:HA	40:CP:12:MET:HG3	1.99	0.45
40:CP:15:ASP:O	40:CP:16:VAL:C	2.55	0.45
41:CQ:35:PHE:C	41:CQ:37:ALA:N	2.70	0.45
41:CQ:80:ASN:O	41:CQ:83:LYS:HB3	2.15	0.45
48:CX:16:ASN:OD1	48:CX:26:ARG:HD2	2.15	0.45
49:CY:23:ARG:O	49:CY:24:GLU:C	2.55	0.45
55:D4:34:LYS:C	55:D4:35:GLN:HG2	2.37	0.45
25:DA:1019:U:OP1	25:DA:1035:U:O2'	2.26	0.45
25:DA:1358:G:C2'	25:DA:1359:A:OP2	2.64	0.45
25:DA:1394:U:C3'	25:DA:1394:U:C6	3.00	0.45
25:DA:1485:U:H2'	25:DA:1486:U:H6	1.80	0.45
25:DA:1585:C:H2'	25:DA:1586:A:H5'	1.97	0.45
25:DA:2049:G:C2'	25:DA:2050:C:H5'	2.47	0.45
25:DA:2467:C:H41	25:DA:2468:A:N6	2.15	0.45
25:DA:2748:A:C5	25:DA:2749:A:N7	2.85	0.45
25:DA:2788:C:H2'	25:DA:2789:C:C6	2.51	0.45
25:DA:461:C:O5'	25:DA:461:C:H6	1.99	0.45
25:DA:497:A:C2'	25:DA:498:G:H5'	2.46	0.45
25:DA:693:A:O2'	25:DA:694:U:O5'	2.34	0.45
25:DA:769:U:C2	25:DA:770:G:C8	3.04	0.45
56:DB:51:G:C2	56:DB:52:A:N7	2.84	0.45
56:DB:53:A:C2	56:DB:54:G:C8	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:203:VAL:O	27:DC:204:LEU:HB2	2.16	0.45
31:DG:112:VAL:HG21	31:DG:150:TYR:HD2	1.81	0.45
32:DH:9:VAL:HG11	32:DH:12:LEU:CG	2.47	0.45
33:DI:46:ASP:HA	33:DI:50:LYS:CD	2.45	0.45
33:DI:73:PRO:HB2	33:DI:74:PRO:CD	2.46	0.45
37:DM:4:PRO:HB2	37:DM:7:THR:CG2	2.46	0.45
38:DN:46:ARG:O	38:DN:50:PRO:HG2	2.16	0.45
40:DP:54:LEU:CD1	40:DP:76:HIS:HB2	2.46	0.45
45:DU:71:ILE:HD11	45:DU:82:VAL:CG2	2.46	0.45
46:DV:25:LYS:O	46:DV:26:PHE:HB3	2.17	0.45
49:DY:6:LEU:HD13	49:DY:56:LEU:HD22	1.99	0.45
50:DZ:35:VAL:HG22	50:DZ:37:ARG:CZ	2.46	0.45
50:DZ:43:ILE:C	50:DZ:45:GLY:H	2.19	0.45
1:AA:1032:G:N3	1:AA:1032:G:C5'	2.80	0.45
1:AA:1397:C:O4'	1:AA:1397:C:O2	2.33	0.45
1:AA:1399:C:O2	1:AA:1401:G:C6	2.70	0.45
1:AA:1485:U:H2'	1:AA:1486:G:H8	1.80	0.45
1:AA:202:G:N2	1:AA:216:U:O2	2.49	0.45
1:AA:27:G:H2'	1:AA:28:A:O5'	2.17	0.45
1:AA:439:U:C5	1:AA:440:C:H5	2.32	0.45
1:AA:457:G:C6	1:AA:458:U:C4	3.04	0.45
1:AA:459:A:C2	1:AA:460:A:C5	3.05	0.45
1:AA:489:C:C2'	1:AA:490:C:O5'	2.65	0.45
1:AA:61:G:C5	1:AA:107:G:C2	3.04	0.45
1:AA:650:G:C5	1:AA:651:C:C5	3.05	0.45
1:AA:654:G:C6	1:AA:753:A:N7	2.85	0.45
1:AA:922:G:N2	1:AA:1396:A:C5	2.85	0.45
1:AA:946:A:H2'	1:AA:947:G:C8	2.52	0.45
1:AA:954:G:N1	1:AA:955:U:O2	2.49	0.45
2:AB:206:ILE:CG1	2:AB:207:ARG:N	2.78	0.45
2:AB:19:THR:O	2:AB:20:ARG:CZ	2.65	0.45
2:AB:34:ARG:HE	2:AB:34:ARG:CA	2.27	0.45
3:AC:70:ALA:C	3:AC:72:PRO:HD3	2.36	0.45
3:AC:96:VAL:CB	3:AC:97:PRO:HD2	2.41	0.45
4:AD:103:ARG:NH1	4:AD:110:ARG:HH22	2.14	0.45
4:AD:12:ARG:HH11	4:AD:12:ARG:HB3	1.81	0.45
4:AD:53:GLN:NE2	4:AD:202:LEU:HA	2.32	0.45
5:AE:56:PRO:HA	5:AE:59:ILE:HG12	1.97	0.45
1:AA:1346:A:H5''	9:AI:121:ARG:HH12	1.82	0.45
9:AI:29:ILE:CD1	9:AI:38:PHE:HE2	2.30	0.45
9:AI:93:LEU:HA	9:AI:96:GLU:OE1	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1151:A:H5''	10:AJ:44:THR:OG1	2.16	0.45
10:AJ:67:ILE:O	10:AJ:67:ILE:HG22	2.17	0.45
14:AN:1:ALA:O	14:AN:2:LYS:HB3	2.16	0.45
20:AT:4:LYS:O	20:AT:5:SER:C	2.54	0.45
22:AV:13:C:O2'	22:AV:14:A:H5'	2.16	0.45
1:BA:1013:G:N2	1:BA:1017:U:H1'	2.32	0.45
1:BA:1446:A:H2'	1:BA:1446:A:N3	2.32	0.45
1:BA:1485:U:O2'	1:BA:1486:G:H5'	2.17	0.45
1:BA:1492:A:OP2	1:BA:1492:A:H8	1.99	0.45
1:BA:1504:G:H4'	1:BA:1505:G:C4	2.52	0.45
1:BA:342:C:C2'	1:BA:343:U:H5'	2.47	0.45
1:BA:35:G:C6	1:BA:36:C:N4	2.85	0.45
1:BA:960:U:O2'	1:BA:1223:C:H4'	2.17	0.45
1:BA:994:A:C5	1:BA:1216:A:H4'	2.52	0.45
2:BB:101:THR:N	2:BB:178:LEU:HD21	2.32	0.45
2:BB:183:PHE:HA	2:BB:197:PHE:O	2.17	0.45
2:BB:49:PHE:HA	2:BB:212:TYR:OH	2.16	0.45
10:BJ:53:ILE:HG13	14:BN:85:ARG:HD2	1.97	0.45
12:BL:115:LYS:O	12:BL:116:TYR:HB2	2.16	0.45
14:BN:46:LEU:HD11	14:BN:49:GLN:HG2	1.97	0.45
14:BN:93:ILE:HG21	14:BN:96:LEU:HB2	1.99	0.45
17:BQ:46:HIS:CG	17:BQ:47:ASP:N	2.85	0.45
20:BT:4:LYS:O	20:BT:5:SER:C	2.54	0.45
20:BT:43:LYS:HG2	20:BT:86:ALA:HA	1.96	0.45
11:BK:92:ARG:HH22	21:BU:19:LYS:HD2	1.82	0.45
11:BK:88:PRO:HD3	21:BU:28:LEU:HD11	1.97	0.45
22:BV:72:C:N4	22:BV:73:A:N6	2.65	0.45
25:CA:1172:C:C5	25:CA:1173:U:C6	3.04	0.45
25:CA:1979:U:H2'	25:CA:1980:G:O5'	2.16	0.45
25:CA:2461:A:H1'	25:CA:2492:U:C2	2.52	0.45
25:CA:2727:A:C2'	25:CA:2728:U:H5'	2.47	0.45
25:CA:760:G:H2'	25:CA:761:A:H5'	1.96	0.45
25:CA:771:G:H2'	25:CA:772:C:H5'	1.99	0.45
25:CA:829:A:H5''	25:CA:831:G:N7	2.32	0.45
26:CB:43:C:C4	26:CB:45:A:C6	3.05	0.45
26:CB:61:G:H2'	26:CB:62:C:H6	1.82	0.45
27:CC:16:VAL:HG23	27:CC:203:VAL:HG22	1.97	0.45
30:CF:46:LYS:NZ	30:CF:83:PRO:HG2	2.32	0.45
32:CH:46:PHE:O	32:CH:49:ALA:HB3	2.16	0.45
32:CH:7:ASP:C	32:CH:15:LEU:HD22	2.38	0.45
35:CK:99:ILE:HG21	35:CK:119:ALA:HB2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CL:53:GLY:O	36:CL:54:GLN:C	2.55	0.45
37:CM:57:VAL:O	37:CM:58:LYS:C	2.53	0.45
35:CK:108:ARG:NH1	40:CP:34:GLY:CA	2.80	0.45
41:CQ:90:ASP:C	41:CQ:90:ASP:OD2	2.55	0.45
42:CR:14:VAL:HG11	42:CR:98:ILE:HD12	1.99	0.45
42:CR:79:ARG:O	42:CR:80:ARG:HB3	2.16	0.45
48:CX:30:PRO:HB2	48:CX:32:LEU:HG	1.98	0.45
55:D4:36:ARG:O	55:D4:37:GLN:C	2.55	0.45
25:DA:1051:G:H2'	25:DA:1051:G:N3	2.32	0.45
25:DA:1063:G:C8	25:DA:1064:C:C6	3.05	0.45
25:DA:1078:U:H4'	25:DA:1079:C:C5'	2.45	0.45
25:DA:1153:C:N4	25:DA:1154:G:C6	2.85	0.45
25:DA:120:U:C1'	25:DA:149:A:N7	2.79	0.45
25:DA:1479:G:H2'	25:DA:1480:C:O4'	2.17	0.45
25:DA:1509:A:N3	25:DA:1510:G:C8	2.85	0.45
25:DA:1540:G:C4	25:DA:1541:C:C6	3.04	0.45
25:DA:2103:C:C2	25:DA:2104:C:C5	3.04	0.45
25:DA:2205:A:C2	25:DA:2206:C:N3	2.85	0.45
25:DA:2093:G:C5	25:DA:2225:A:N7	2.85	0.45
25:DA:2591:C:H2'	25:DA:2592:G:H5'	1.97	0.45
25:DA:264:C:H2'	25:DA:264:C:O2	2.16	0.45
25:DA:2852:G:H2'	25:DA:2853:C:C6	2.52	0.45
25:DA:346:A:C6	25:DA:347:A:C5	3.05	0.45
25:DA:776:G:C8	25:DA:793:A:C2	3.05	0.45
25:DA:88:G:H2'	25:DA:89:A:H5'	1.98	0.45
25:DA:909:A:O2'	25:DA:910:A:H5'	2.16	0.45
25:DA:929:U:O2'	25:DA:930:G:H5'	2.16	0.45
56:DB:63:C:HO2'	56:DB:64:G:C5'	2.28	0.45
27:DC:226:PRO:HD3	27:DC:233:GLY:CA	2.43	0.45
25:DA:1256:G:C2'	29:DE:77:ILE:HD11	2.46	0.45
30:DF:102:LEU:C	30:DF:107:VAL:HG23	2.37	0.45
30:DF:173:ASP:O	30:DF:174:PHE:HB3	2.17	0.45
31:DG:76:ILE:HD13	31:DG:76:ILE:N	2.32	0.45
32:DH:125:THR:HA	32:DH:146:VAL:HB	1.97	0.45
32:DH:62:LEU:HD13	32:DH:63:ALA:HB2	1.98	0.45
32:DH:96:THR:HG22	32:DH:115:VAL:HG11	1.97	0.45
33:DI:37:PHE:C	33:DI:41:PHE:HB2	2.37	0.45
33:DI:56:VAL:HG23	33:DI:70:THR:N	2.32	0.45
36:DL:85:VAL:CG1	36:DL:95:LEU:HD23	2.47	0.45
40:DP:105:LYS:HA	40:DP:108:ARG:HD2	1.98	0.45
43:DS:97:LEU:HD23	43:DS:99:ARG:HH12	1.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:7:LEU:CD2	44:DT:46:ALA:CB	2.94	0.45
46:DV:17:SER:O	46:DV:20:LEU:HB3	2.16	0.45
57:DW:45:ALA:H	57:DW:77:SER:HB3	1.80	0.45
1:AA:1036:A:N3	1:AA:1036:A:H2'	2.32	0.45
1:AA:1038:C:O2'	1:AA:1039:G:H5'	2.17	0.45
1:AA:1061:G:H5'	1:AA:1062:U:OP2	2.17	0.45
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.52	0.45
1:AA:1106:G:C6	1:AA:1107:C:C4	3.05	0.45
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.47	0.45
1:AA:1216:A:N1	1:AA:1217:C:N4	2.65	0.45
1:AA:1299:A:C2	1:AA:1301:U:C2	3.05	0.45
1:AA:1366:C:C2'	1:AA:1367:C:H5'	2.46	0.45
1:AA:1539:C:H1'	23:AX:7:G:C2	2.52	0.45
1:AA:205:A:N3	1:AA:205:A:C2'	2.78	0.45
1:AA:355:C:C4	1:AA:356:A:N7	2.84	0.45
1:AA:513:C:O2'	1:AA:514:C:H5'	2.16	0.45
1:AA:549:C:H2'	1:AA:550:G:O4'	2.16	0.45
1:AA:620:C:H1'	4:AD:131:ILE:HD13	1.98	0.45
1:AA:64:G:C2	1:AA:67:C:C4	3.05	0.45
1:AA:723:U:C5'	1:AA:724:G:O5'	2.65	0.45
1:AA:662:U:O2'	1:AA:836:G:O5'	2.35	0.45
1:AA:22:G:O2'	1:AA:913:A:N1	2.39	0.45
2:AB:133:ALA:C	2:AB:135:MET:H	2.20	0.45
2:AB:80:LYS:HB2	2:AB:90:PHE:HE1	1.81	0.45
4:AD:57:LYS:N	4:AD:199:ILE:CG2	2.80	0.45
5:AE:72:ASN:H	5:AE:72:ASN:ND2	2.14	0.45
7:AG:11:ILE:HD11	7:AG:23:ALA:HB3	1.98	0.45
9:AI:6:TYR:HE2	9:AI:17:ARG:CA	2.30	0.45
10:AJ:17:LEU:C	10:AJ:17:LEU:HD23	2.37	0.45
10:AJ:73:LEU:O	10:AJ:74:VAL:CB	2.65	0.45
11:AK:18:GLY:O	11:AK:81:LEU:HA	2.17	0.45
12:AL:63:THR:CG2	12:AL:91:GLY:O	2.65	0.45
10:AJ:67:ILE:HD11	14:AN:96:LEU:HB2	1.97	0.45
15:AO:38:LEU:HA	15:AO:38:LEU:HD12	1.81	0.45
16:AP:12:LYS:O	16:AP:13:LYS:HB2	2.17	0.45
16:AP:1:MET:HB3	16:AP:1:MET:HE2	1.88	0.45
22:AV:69:G:H2'	22:AV:70:G:H5'	1.99	0.45
1:BA:1053:G:H5''	1:BA:1055:A:OP1	2.17	0.45
1:BA:1126:U:O2'	1:BA:1127:G:H5'	2.17	0.45
1:BA:1227:A:N1	1:BA:1228:C:O2	2.50	0.45
1:BA:128:G:C6	1:BA:129:A:N6	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1422:G:N1	1:BA:1423:G:C5	2.85	0.45
1:BA:147:G:C2	1:BA:176:C:C2	3.05	0.45
1:BA:185:U:O2'	1:BA:186:C:H5'	2.17	0.45
1:BA:283:U:H2'	1:BA:284:C:H6	1.78	0.45
1:BA:424:G:N2	1:BA:425:G:C4	2.85	0.45
1:BA:457:G:C6	1:BA:458:U:C4	3.04	0.45
1:BA:720:C:N4	1:BA:721:G:C2	2.85	0.45
1:BA:767:A:H2'	1:BA:768:A:O4'	2.16	0.45
1:BA:935:A:H2'	1:BA:935:A:N3	2.31	0.45
1:BA:957:U:O2	1:BA:959:A:C8	2.70	0.45
1:BA:96:U:H2'	1:BA:97:G:H8	1.80	0.45
2:BB:93:HIS:HB2	2:BB:145:ASN:O	2.17	0.45
3:BC:5:HIS:HE1	3:BC:183:TYR:HD2	1.63	0.45
4:BD:202:LEU:C	4:BD:204:SER:H	2.20	0.45
6:BF:73:GLU:O	6:BF:73:GLU:HG2	2.17	0.45
7:BG:75:LYS:O	7:BG:86:VAL:HG23	2.17	0.45
8:BH:29:SER:O	8:BH:32:LYS:N	2.50	0.45
8:BH:10:LEU:HD13	8:BH:74:ILE:HG13	1.99	0.45
9:BI:27:ILE:HG23	9:BI:62:LEU:CG	2.45	0.45
9:BI:24:ASN:HB3	9:BI:58:GLU:OE1	2.17	0.45
13:BM:109:LYS:O	13:BM:110:GLY:O	2.35	0.45
14:BN:53:ARG:O	14:BN:59:ARG:HD2	2.17	0.45
15:BO:69:LEU:O	15:BO:70:LYS:C	2.55	0.45
19:BS:48:ILE:O	19:BS:48:ILE:HD12	2.17	0.45
21:BU:11:PHE:O	21:BU:12:ASP:CB	2.65	0.45
41:CQ:29:ARG:HE	51:C0:9:ARG:HH11	1.63	0.45
25:CA:1069:A:H4'	25:CA:1070:A:C8	2.50	0.45
25:CA:1421:G:H2'	25:CA:1422:G:O5'	2.17	0.45
25:CA:1726:C:O2'	25:CA:1727:C:H5'	2.17	0.45
25:CA:2107:G:N2	25:CA:2108:A:H1'	2.32	0.45
25:CA:2139:U:C2'	25:CA:2140:G:H5'	2.47	0.45
25:CA:2172:U:OP2	25:CA:2173:A:H5''	2.16	0.45
25:CA:2331:G:N2	25:CA:2385:C:C5	2.85	0.45
25:CA:2415:G:C2'	25:CA:2416:C:O5'	2.65	0.45
25:CA:2651:C:O2'	25:CA:2652:C:H5'	2.17	0.45
25:CA:2800:A:C3'	25:CA:2801:G:C5'	2.91	0.45
25:CA:637:A:H4'	25:CA:638:G:O5'	2.17	0.45
25:CA:703:U:C2'	25:CA:704:G:H5'	2.46	0.45
25:CA:717:C:C2'	25:CA:718:A:H5'	2.46	0.45
25:CA:924:G:O2'	25:CA:925:A:H5'	2.17	0.45
26:CB:112:G:H2'	26:CB:113:C:H6	1.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:234:GLY:HA2	27:CC:238:ASN:HB2	1.98	0.45
25:CA:1901:A:OP2	27:CC:252:LYS:HD2	2.17	0.45
27:CC:83:ASP:OD1	27:CC:84:PRO:N	2.49	0.45
28:CD:172:VAL:CG2	28:CD:194:PRO:HD3	2.47	0.45
29:CE:54:GLY:N	29:CE:74:LYS:HE2	2.32	0.45
29:CE:60:TRP:O	29:CE:61:ARG:O	2.35	0.45
30:CF:147:ARG:HG2	30:CF:148:VAL:N	2.32	0.45
30:CF:56:LEU:CD1	30:CF:86:CYS:O	2.65	0.45
33:CI:107:GLU:CA	33:CI:110:GLN:HB3	2.40	0.45
35:CK:13:ASN:HD22	35:CK:98:ARG:CB	2.30	0.45
37:CM:50:ARG:HG2	37:CM:51:ARG:N	2.31	0.45
46:CV:43:ASP:OD1	46:CV:43:ASP:C	2.54	0.45
46:CV:78:GLN:O	46:CV:87:GLN:HB2	2.17	0.45
52:D1:39:ASP:HA	52:D1:48:TYR:OH	2.16	0.45
55:D4:16:ILE:HG22	55:D4:16:ILE:O	2.17	0.45
25:DA:1011:G:C2	25:DA:1013:C:O2	2.70	0.45
25:DA:1071:G:N7	25:DA:1089:A:C6	2.85	0.45
25:DA:1277:G:C4'	38:DN:20:MET:HE2	2.46	0.45
25:DA:1606:C:H3'	25:DA:1606:C:C6	2.51	0.45
25:DA:1717:A:H2'	25:DA:1718:G:H5'	1.98	0.45
25:DA:1993:U:H4'	28:DD:133:THR:CG2	2.37	0.45
25:DA:2007:U:C2'	25:DA:2008:C:O5'	2.65	0.45
25:DA:2476:A:C2'	25:DA:2477:U:H5'	2.47	0.45
25:DA:2702:G:H2'	25:DA:2703:C:C6	2.52	0.45
25:DA:2043:C:N3	25:DA:2777:G:C2	2.85	0.45
25:DA:2884:U:O2	25:DA:2884:U:C3'	2.65	0.45
25:DA:303:G:H2'	25:DA:304:U:C6	2.51	0.45
25:DA:404:A:C1'	25:DA:405:U:P	3.04	0.45
25:DA:54:G:H2'	25:DA:55:G:O5'	2.17	0.45
56:DB:34:A:O4'	56:DB:35:C:H5	2.00	0.45
56:DB:4:C:H2'	56:DB:5:U:C6	2.51	0.45
27:DC:116:GLN:HG2	27:DC:117:SER:N	2.32	0.45
27:DC:236:GLY:O	27:DC:237:ARG:HG3	2.17	0.45
30:DF:27:VAL:O	30:DF:28:PRO:O	2.34	0.45
30:DF:89:THR:O	30:DF:90:LEU:HD23	2.17	0.45
31:DG:109:SER:O	31:DG:110:HIS:CB	2.65	0.45
37:DM:53:MET:CE	37:DM:103:TYR:CG	2.99	0.45
37:DM:105:MET:HG2	37:DM:106:ASP:N	2.32	0.45
37:DM:34:LYS:HD3	37:DM:99:GLY:HA2	1.99	0.45
39:DO:34:HIS:HB3	39:DO:36:TYR:HE2	1.81	0.45
39:DO:51:ALA:HB1	39:DO:77:ALA:CB	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DW:32:ILE:HG23	57:DW:54:THR:CG2	2.47	0.45
50:DZ:35:VAL:CG2	50:DZ:37:ARG:NH2	2.79	0.45
1:AA:1210:C:O4'	1:AA:1214:C:H5	2.00	0.45
1:AA:1414:U:H2'	1:AA:1414:U:O2	2.16	0.45
1:AA:189:A:O2'	1:AA:190:A:H5'	2.16	0.45
1:AA:375:U:C2	1:AA:376:G:C8	3.05	0.45
1:AA:462:G:N7	1:AA:463:U:C5	2.84	0.45
1:AA:550:G:C5	1:AA:551:U:C5	3.05	0.45
1:AA:623:C:C2'	1:AA:624:C:H5'	2.46	0.45
1:AA:657:U:C2'	1:AA:657:U:O2	2.62	0.45
1:AA:854:U:H2'	1:AA:855:U:H6	1.82	0.45
1:AA:858:G:O2'	1:AA:859:G:C5'	2.65	0.45
1:AA:938:A:N6	1:AA:939:G:C6	2.85	0.45
1:AA:981:U:C2	1:AA:982:U:C5	3.04	0.45
1:AA:979:C:P	1:AA:981:U:O4	2.75	0.45
3:AC:119:ILE:O	3:AC:121:SER:N	2.50	0.45
3:AC:39:ARG:C	3:AC:41:TYR:N	2.70	0.45
4:AD:101:VAL:CG1	4:AD:113:ALA:HB1	2.46	0.45
6:AF:24:ARG:O	6:AF:27:ALA:HB3	2.17	0.45
7:AG:73:GLU:HA	7:AG:140:VAL:HG12	1.98	0.45
8:AH:40:LYS:NZ	8:AH:47:ASP:OD2	2.49	0.45
9:AI:35:GLU:HA	9:AI:39:GLY:CA	2.47	0.45
11:AK:41:LEU:CB	11:AK:76:TYR:HE2	2.29	0.45
13:AM:35:ALA:HB3	13:AM:58:GLU:OE1	2.17	0.45
13:AM:55:LEU:O	13:AM:58:GLU:N	2.50	0.45
14:AN:7:ALA:HA	14:AN:10:VAL:HG23	1.99	0.45
14:AN:43:ASN:OD1	14:AN:47:LYS:NZ	2.47	0.45
14:AN:50:THR:H	14:AN:51:LEU:HD23	1.81	0.45
14:AN:90:ARG:HB3	14:AN:92:GLU:CG	2.47	0.45
15:AO:6:ALA:O	15:AO:10:ILE:CD1	2.64	0.45
24:AY:5:ASP:O	24:AY:8:LYS:HB2	2.17	0.45
1:BA:1060:U:O2'	1:BA:1061:G:C5'	2.64	0.45
1:BA:1117:A:H4'	9:BI:105:ARG:NE	2.32	0.45
1:BA:1202:U:H1'	14:BN:69:ARG:HD2	1.98	0.45
1:BA:135:C:O2	16:BP:1:MET:HB2	2.16	0.45
1:BA:631:C:H3'	1:BA:632:U:H5'	1.99	0.45
1:BA:684:U:C3'	1:BA:685:G:H5'	2.46	0.45
1:BA:686:U:O2	1:BA:687:A:N7	2.50	0.45
1:BA:694:A:C2'	1:BA:695:A:O5'	2.65	0.45
1:BA:763:G:C2'	1:BA:764:C:O5'	2.65	0.45
1:BA:916:U:C2'	1:BA:917:G:H5'	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:141:GLU:H	2:BB:141:GLU:CD	2.21	0.45
2:BB:143:LEU:HB2	2:BB:147:LEU:HD12	1.99	0.45
2:BB:175:ALA:HB1	2:BB:180:ILE:HB	1.97	0.45
2:BB:183:PHE:CD2	2:BB:183:PHE:N	2.85	0.45
3:BC:120:THR:HG22	3:BC:121:SER:N	2.32	0.45
3:BC:82:ASP:O	3:BC:85:LYS:CG	2.65	0.45
4:BD:113:ALA:O	4:BD:116:LEU:HB2	2.17	0.45
4:BD:3:TYR:CZ	4:BD:5:GLY:HA3	2.51	0.45
5:BE:103:GLY:CA	5:BE:121:ASN:HA	2.41	0.45
6:BF:47:LEU:H	6:BF:56:LYS:H	1.64	0.45
9:BI:5:TYR:HD1	9:BI:20:ILE:O	2.00	0.45
9:BI:91:GLU:HA	9:BI:94:ARG:HB2	1.99	0.45
10:BJ:27:GLU:HA	10:BJ:30:LYS:CG	2.45	0.45
14:BN:101:TRP:N	14:BN:101:TRP:CE3	2.85	0.45
15:BO:69:LEU:HD13	15:BO:77:TYR:CB	2.47	0.45
19:BS:12:LEU:CD2	19:BS:16:LYS:HE3	2.46	0.45
25:CA:1107:G:C5	25:CA:1108:U:C5	3.05	0.45
25:CA:1378:A:H4'	25:CA:1379:U:OP1	2.16	0.45
25:CA:137:U:H2'	25:CA:140:C:N1	2.32	0.45
25:CA:1494:A:N1	25:CA:1495:A:C4	2.85	0.45
25:CA:1494:A:N1	25:CA:1495:A:N3	2.65	0.45
25:CA:1407:G:C2	25:CA:1596:A:C2	3.05	0.45
25:CA:1807:G:H2'	25:CA:1809:A:N7	2.32	0.45
25:CA:1931:U:H5'	25:CA:1931:U:H6	1.81	0.45
25:CA:2023:C:O2'	25:CA:2024:G:H5'	2.16	0.45
25:CA:2144:G:O2'	25:CA:2145:C:H5	2.00	0.45
25:CA:2146:C:C5'	25:CA:2147:A:OP1	2.62	0.45
25:CA:2732:G:H3'	25:CA:2733:A:C5'	2.47	0.45
25:CA:27:G:C4	25:CA:512:G:N2	2.85	0.45
25:CA:825:A:H2'	25:CA:826:U:O4'	2.17	0.45
25:CA:911:A:C5	37:CM:9:PHE:CD2	3.05	0.45
26:CB:99:A:C6	26:CB:100:G:C4	3.05	0.45
27:CC:123:ILE:CD1	27:CC:129:LEU:HD11	2.47	0.45
27:CC:7:PRO:CB	27:CC:13:ARG:HB2	2.47	0.45
30:CF:129:MET:HG3	30:CF:153:ILE:HB	1.98	0.45
31:CG:114:HIS:CD2	31:CG:147:LEU:CD2	2.99	0.45
31:CG:122:ALA:HB2	31:CG:132:LEU:HA	1.99	0.45
31:CG:59:ASP:HB2	31:CG:62:ALA:HB3	1.98	0.45
32:CH:69:ALA:HB2	32:CH:134:VAL:HG11	1.99	0.45
32:CH:72:ILE:CD1	32:CH:140:ALA:O	2.65	0.45
33:CI:102:ARG:HG2	33:CI:103:ALA:N	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:72:THR:HB	33:CI:73:PRO:HD2	1.98	0.45
36:CL:19:LEU:CD2	36:CL:31:GLY:O	2.64	0.45
36:CL:30:THR:O	36:CL:32:GLY:N	2.50	0.45
37:CM:92:TRP:C	37:CM:93:VAL:CG1	2.85	0.45
44:CT:12:ARG:N	44:CT:12:ARG:HD2	2.32	0.45
44:CT:30:ILE:HG23	44:CT:85:VAL:HB	1.98	0.45
45:CU:84:PHE:O	45:CU:85:ARG:HB3	2.16	0.45
46:CV:40:ILE:HD13	46:CV:40:ILE:HA	1.71	0.45
49:CY:24:GLU:OE1	49:CY:24:GLU:HA	2.17	0.45
49:CY:9:LYS:C	49:CY:11:VAL:H	2.20	0.45
54:D3:15:LYS:HD2	54:D3:20:GLY:O	2.17	0.45
54:D3:30:HIS:ND1	54:D3:30:HIS:C	2.70	0.45
25:DA:1052:C:H6	25:DA:1052:C:O5'	1.99	0.45
25:DA:1069:A:O2'	25:DA:1070:A:H5''	2.16	0.45
25:DA:1095:A:C5	25:DA:1096:A:C2	3.05	0.45
25:DA:1097:U:C2'	25:DA:1098:A:H5'	2.47	0.45
25:DA:1183:U:H2'	25:DA:1184:U:C6	2.51	0.45
25:DA:1441:G:C4	25:DA:1442:U:C5	3.05	0.45
25:DA:1492:G:H2'	25:DA:1493:C:OP1	2.16	0.45
25:DA:1429:G:C2	25:DA:1568:G:N2	2.84	0.45
25:DA:1588:G:H3'	25:DA:1589:U:C6	2.51	0.45
25:DA:1747:U:C2	25:DA:1748:C:C5	3.05	0.45
25:DA:182:A:C6	25:DA:183:C:N3	2.85	0.45
25:DA:2020:A:H5'	51:D0:8:THR:CG2	2.47	0.45
25:DA:2098:U:C2	25:DA:2099:U:C6	3.05	0.45
25:DA:2118:U:H5'	25:DA:2119:A:OP1	2.16	0.45
25:DA:2161:C:O2	25:DA:2161:C:H2'	2.17	0.45
25:DA:2259:U:H2'	25:DA:2260:C:H6	1.82	0.45
25:DA:230:G:C2	25:DA:231:A:C5	3.05	0.45
25:DA:233:A:H2'	25:DA:234:U:O4'	2.17	0.45
25:DA:2756:U:H4'	25:DA:2757:A:O5'	2.16	0.45
25:DA:2766:A:N3	25:DA:2766:A:H2'	2.31	0.45
25:DA:415:A:C2	25:DA:2409:G:C2	3.05	0.45
25:DA:60:G:C4	25:DA:74:A:C2	3.05	0.45
25:DA:934:U:H2'	25:DA:935:C:H6	1.81	0.45
56:DB:54:G:H21	56:DB:55:U:H1'	1.82	0.45
27:DC:29:PHE:O	27:DC:30:ALA:C	2.56	0.45
28:DD:13:ARG:O	28:DD:14:ILE:HD13	2.17	0.45
30:DF:116:LEU:O	30:DF:176:PHE:HA	2.17	0.45
30:DF:130:GLY:HA2	30:DF:152:ASP:HB3	1.99	0.45
31:DG:112:VAL:HG21	31:DG:150:TYR:CE2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:135:HIS:CD2	32:DH:138:VAL:HG23	2.52	0.45
32:DH:38:PRO:O	32:DH:40:THR:HG23	2.16	0.45
32:DH:63:ALA:HB1	32:DH:66:ASN:HB2	1.99	0.45
36:DL:85:VAL:HG12	36:DL:95:LEU:HD23	1.99	0.45
36:DL:95:LEU:O	36:DL:96:LYS:C	2.55	0.45
37:DM:42:THR:O	37:DM:45:GLN:HB2	2.16	0.45
40:DP:50:ARG:HG2	40:DP:50:ARG:O	2.17	0.45
43:DS:60:HIS:ND1	43:DS:61:ASN:N	2.65	0.45
44:DT:51:PHE:HB3	44:DT:53:VAL:HG22	1.99	0.45
44:DT:67:VAL:HG22	44:DT:76:ARG:HD2	1.98	0.45
45:DU:73:ASN:OD1	45:DU:76:THR:HG23	2.17	0.45
45:DU:82:VAL:CG1	45:DU:83:GLY:N	2.79	0.45
1:AA:1025:U:OP2	1:AA:1025:U:C6	2.70	0.45
1:AA:1163:A:H2'	1:AA:1164:G:C8	2.52	0.45
1:AA:1188:A:H2'	1:AA:1189:U:O4'	2.17	0.45
1:AA:1335:U:H5''	1:AA:1336:C:H5'	1.99	0.45
1:AA:1504:G:OP2	1:AA:1507:A:O2'	2.28	0.45
1:AA:213:G:H2'	1:AA:214:C:H5'	1.99	0.45
1:AA:233:C:H2'	1:AA:234:C:C6	2.52	0.45
1:AA:508:U:H4'	1:AA:509:A:OP1	2.17	0.45
1:AA:696:A:H2'	1:AA:697:U:H6	1.82	0.45
1:AA:757:U:H5''	1:AA:822:U:O2	2.17	0.45
2:AB:65:LYS:HE3	2:AB:158:ASP:OD2	2.18	0.45
2:AB:81:ASP:C	2:AB:83:ALA:N	2.70	0.45
3:AC:119:ILE:O	3:AC:120:THR:C	2.55	0.45
3:AC:84:GLU:HA	3:AC:87:ARG:NH2	2.31	0.45
4:AD:157:ALA:O	4:AD:160:LEU:HD22	2.17	0.45
5:AE:140:ILE:O	5:AE:143:LEU:HB2	2.16	0.45
5:AE:40:ASP:O	5:AE:42:ASN:HB2	2.17	0.45
6:AF:39:LEU:CD1	6:AF:39:LEU:C	2.85	0.45
1:AA:710:G:H5''	6:AF:53:LYS:HZ1	1.82	0.45
8:AH:31:LEU:C	8:AH:31:LEU:HD13	2.37	0.45
8:AH:88:LYS:HG3	8:AH:89:ASP:H	1.82	0.45
9:AI:114:LYS:O	9:AI:115:VAL:C	2.55	0.45
10:AJ:56:HIS:C	10:AJ:57:VAL:O	2.54	0.45
1:AA:553:A:O2'	12:AL:25:ALA:HB1	2.17	0.45
13:AM:19:THR:C	13:AM:24:VAL:HG23	2.38	0.45
13:AM:39:ALA:O	13:AM:41:ASP:N	2.50	0.45
24:AY:108:GLU:O	24:AY:109:GLU:C	2.55	0.45
24:AY:25:ILE:HG23	24:AY:179:LYS:NZ	2.31	0.45
1:BA:1110:A:P	60:BA:1857:HOH:O	2.75	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1251:A:C2'	1:BA:1252:A:O5'	2.65	0.45
1:BA:1342:C:H1'	9:BI:125:GLN:CG	2.47	0.45
1:BA:189:A:N1	1:BA:190:A:N3	2.65	0.45
1:BA:307:C:H6	1:BA:307:C:O5'	2.00	0.45
1:BA:462:G:C5	1:BA:463:U:C5	3.05	0.45
1:BA:484:G:C4'	1:BA:485:U:O5'	2.48	0.45
1:BA:554:A:H2'	1:BA:555:U:C6	2.51	0.45
1:BA:55:A:H2'	1:BA:56:U:H6	1.81	0.45
1:BA:673:A:C2'	1:BA:674:G:O4'	2.65	0.45
1:BA:740:U:O2'	1:BA:741:G:H5'	2.16	0.45
1:BA:818:G:O2'	1:BA:819:A:H5'	2.16	0.45
3:BC:63:ILE:HG12	3:BC:65:VAL:CG2	2.46	0.45
3:BC:63:ILE:HG12	3:BC:65:VAL:HG23	1.98	0.45
5:BE:75:LEU:HD23	5:BE:119:VAL:HG13	1.99	0.45
6:BF:21:MET:HA	6:BF:24:ARG:HB2	2.00	0.45
9:BI:118:ARG:O	9:BI:119:LYS:CB	2.62	0.45
1:BA:502:A:OP1	12:BL:114:SER:HB2	2.17	0.45
12:BL:89:LEU:CB	12:BL:92:VAL:CG2	2.94	0.45
13:BM:42:VAL:O	13:BM:42:VAL:HG23	2.16	0.45
19:BS:10:ILE:HD11	19:BS:15:LEU:CB	2.46	0.45
19:BS:63:ASP:HB3	19:BS:64:GLU:OE1	2.17	0.45
20:BT:2:ASN:O	20:BT:4:LYS:N	2.49	0.45
51:C0:24:VAL:HG13	51:C0:25:THR:N	2.31	0.45
54:C3:36:ALA:O	54:C3:40:LYS:HG3	2.16	0.45
25:CA:1425:G:O2'	25:CA:1426:G:H5'	2.17	0.45
25:CA:1339:G:N2	25:CA:1603:A:N3	2.64	0.45
25:CA:2337:G:N3	25:CA:2337:G:H2'	2.32	0.45
25:CA:2571:U:C2'	25:CA:2572:A:OP1	2.64	0.45
25:CA:2658:C:O2	25:CA:2658:C:C2'	2.59	0.45
25:CA:707:G:O6	25:CA:724:U:C2	2.70	0.45
25:CA:1818:U:H2'	27:CC:155:ARG:HD2	1.99	0.45
27:CC:211:ARG:HA	27:CC:211:ARG:HD2	1.55	0.45
27:CC:30:ALA:HB3	27:CC:31:PRO:HD3	1.98	0.45
28:CD:62:LYS:N	28:CD:63:PRO:CD	2.79	0.45
32:CH:135:HIS:CG	32:CH:136:SER:N	2.85	0.45
32:CH:6:LEU:CD1	32:CH:37:VAL:HG12	2.46	0.45
34:CJ:24:THR:O	34:CJ:25:LEU:C	2.55	0.45
36:CL:4:ASN:C	36:CL:5:THR:HG22	2.36	0.45
37:CM:97:GLN:N	37:CM:97:GLN:CD	2.70	0.45
39:CO:74:VAL:O	39:CO:78:VAL:CG2	2.65	0.45
42:CR:40:MET:HA	42:CR:54:VAL:HG21	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CT:30:ILE:HG12	44:CT:31:VAL:N	2.31	0.45
45:CU:80:ASP:OD1	45:CU:95:PHE:HD2	2.00	0.45
45:CU:82:VAL:HG13	45:CU:93:ARG:HB3	1.99	0.45
49:CY:3:ALA:C	49:CY:5:GLU:H	2.20	0.45
53:D2:34:ARG:HB2	53:D2:42:LEU:CD1	2.47	0.45
54:D3:14:LYS:HB3	54:D3:22:LYS:CE	2.47	0.45
25:DA:1012:U:O4	34:DJ:30:THR:HG21	2.17	0.45
25:DA:1132:U:O2'	25:DA:1133:A:H5'	2.17	0.45
25:DA:1340:U:H4'	25:DA:1341:G:OP2	2.17	0.45
25:DA:1346:G:H2'	25:DA:1347:A:O5'	2.16	0.45
25:DA:1354:A:C8	25:DA:1354:A:H3'	2.52	0.45
25:DA:1388:G:C2'	25:DA:1389:G:H5'	2.47	0.45
25:DA:1440:U:H2'	25:DA:1441:G:C8	2.52	0.45
25:DA:1586:A:N7	25:DA:1587:G:C8	2.85	0.45
25:DA:1825:U:H2'	25:DA:1826:G:C8	2.52	0.45
25:DA:1918:A:O2'	25:DA:1920:C:C4	2.70	0.45
25:DA:2208:C:H2'	25:DA:2208:C:O2	2.16	0.45
25:DA:230:G:O2'	25:DA:231:A:H5'	2.17	0.45
25:DA:2796:U:O2'	25:DA:2797:U:H2'	2.17	0.45
25:DA:2838:G:H1'	38:DN:45:ARG:NH1	2.32	0.45
25:DA:558:U:P	34:DJ:113:PRO:HD2	2.56	0.45
25:DA:565:C:H2'	25:DA:566:U:O4'	2.17	0.45
25:DA:65:U:H2'	25:DA:66:C:C6	2.43	0.45
25:DA:854:C:O2'	25:DA:855:G:H5'	2.17	0.45
25:DA:900:A:C2	25:DA:901:C:N1	2.84	0.45
56:DB:28:C:O2'	56:DB:29:A:H5'	2.17	0.45
56:DB:97:C:H2'	56:DB:98:G:O5'	2.17	0.45
25:DA:729:G:C5	27:DC:206:LYS:HB2	2.52	0.45
27:DC:251:THR:HG22	27:DC:252:LYS:H	1.80	0.45
28:DD:125:TRP:O	28:DD:126:ASN:HB2	2.17	0.45
25:DA:588:U:H1'	29:DE:85:PHE:CD1	2.52	0.45
30:DF:135:ILE:HG22	30:DF:135:ILE:O	2.17	0.45
30:DF:19:PHE:O	30:DF:20:ASN:ND2	2.50	0.45
31:DG:167:VAL:HG13	31:DG:167:VAL:O	2.16	0.45
31:DG:66:THR:O	31:DG:69:ALA:HB3	2.17	0.45
33:DI:5:GLN:O	33:DI:6:ALA:CB	2.65	0.45
33:DI:96:LYS:HD2	33:DI:96:LYS:N	2.31	0.45
38:DN:51:LEU:CD1	38:DN:70:THR:CG2	2.95	0.45
42:DR:43:ASN:HB3	42:DR:44:GLY:H	1.62	0.45
46:DV:4:ILE:HB	46:DV:63:ILE:HG12	1.99	0.45
46:DV:60:VAL:CG1	46:DV:61:LEU:N	2.79	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1039:G:C2'	1:AA:1040:U:O5'	2.65	0.44
1:AA:1047:G:H2'	1:AA:1048:G:H5'	1.98	0.44
1:AA:1377:A:C2	7:AG:6:ILE:HD11	2.52	0.44
1:AA:211:G:H3'	1:AA:211:G:N3	2.32	0.44
1:AA:315:A:OP1	60:AA:1709:HOH:O	2.21	0.44
1:AA:588:G:C6	1:AA:589:U:N3	2.84	0.44
1:AA:588:G:C6	1:AA:589:U:C2	3.05	0.44
1:AA:675:A:C2'	1:AA:676:A:O5'	2.65	0.44
1:AA:767:A:H2'	1:AA:768:A:O4'	2.16	0.44
2:AB:135:MET:CA	2:AB:138:ARG:HG2	2.47	0.44
3:AC:147:GLY:HA3	3:AC:171:ARG:H	1.82	0.44
3:AC:71:ARG:HB3	3:AC:74:ILE:CG2	2.47	0.44
3:AC:84:GLU:C	3:AC:86:LEU:N	2.70	0.44
6:AF:51:ILE:CG1	6:AF:52:ASN:HB2	2.47	0.44
8:AH:39:LEU:HD23	8:AH:39:LEU:HA	1.79	0.44
10:AJ:17:LEU:HA	10:AJ:20:GLN:HB2	1.99	0.44
10:AJ:40:ILE:HG13	10:AJ:41:PRO:HD2	1.98	0.44
14:AN:14:ALA:O	14:AN:18:LYS:HG3	2.17	0.44
14:AN:13:VAL:HA	14:AN:16:ALA:HB2	1.98	0.44
17:AQ:11:VAL:HG12	17:AQ:12:VAL:H	1.80	0.44
17:AQ:59:GLU:HG2	17:AQ:75:VAL:CG2	2.47	0.44
20:AT:23:ARG:O	20:AT:24:ARG:C	2.55	0.44
24:AY:156:ARG:HH21	24:AY:159:ASP:HB3	1.82	0.44
24:AY:157:SER:C	24:AY:159:ASP:N	2.69	0.44
1:BA:1115:U:H5'	10:BJ:68:ARG:HH22	1.81	0.44
1:BA:1399:C:N3	1:BA:1401:G:C2	2.85	0.44
1:BA:159:G:C5'	1:BA:159:G:C8	3.00	0.44
1:BA:181:A:N1	1:BA:195:A:C5	2.85	0.44
1:BA:247:G:C5	1:BA:278:G:N2	2.85	0.44
1:BA:337:G:C6	1:BA:338:A:N6	2.85	0.44
1:BA:424:G:C2	1:BA:425:G:C4	3.05	0.44
1:BA:462:G:C5	1:BA:463:U:H6	2.34	0.44
1:BA:592:G:C6	1:BA:593:U:N3	2.84	0.44
1:BA:676:A:C2	1:BA:677:U:C2	3.05	0.44
1:BA:71:A:N3	1:BA:100:G:C4	2.86	0.44
1:BA:923:A:H2'	1:BA:924:C:O4'	2.17	0.44
1:BA:941:G:C6	1:BA:1343:G:N1	2.85	0.44
1:BA:954:G:C2	1:BA:955:U:C2	3.05	0.44
3:BC:11:LEU:O	3:BC:13:ILE:N	2.50	0.44
3:BC:149:LYS:HB3	3:BC:168:ARG:CB	2.47	0.44
3:BC:152:VAL:HA	3:BC:197:VAL:HG22	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:144:ILE:H	4:BD:144:ILE:HD12	1.81	0.44
4:BD:173:ASP:O	4:BD:174:ALA:CB	2.64	0.44
4:BD:30:LYS:CD	4:BD:30:LYS:N	2.81	0.44
6:BF:39:LEU:HD12	6:BF:40:GLU:C	2.37	0.44
9:BI:101:GLY:O	9:BI:103:VAL:N	2.49	0.44
10:BJ:19:ASP:HA	10:BJ:22:THR:CG2	2.48	0.44
12:BL:113:ARG:HB3	12:BL:118:VAL:HB	1.99	0.44
1:BA:728:A:C8	15:BO:53:ARG:CZ	3.00	0.44
19:BS:43:MET:O	19:BS:44:ILE:C	2.56	0.44
20:BT:54:GLN:N	20:BT:55:PRO:HD2	2.31	0.44
22:BV:61:C:H2'	22:BV:62:C:H6	1.82	0.44
25:CA:1373:A:H2'	25:CA:1374:G:O4'	2.16	0.44
25:CA:1408:G:O2'	25:CA:1409:U:H5'	2.16	0.44
25:CA:1724:G:C6	25:CA:1725:U:C4	3.05	0.44
25:CA:1875:G:H2'	25:CA:1876:A:OP2	2.17	0.44
25:CA:1889:A:H2'	25:CA:1890:A:O5'	2.17	0.44
25:CA:2124:G:H2'	25:CA:2125:G:O4'	2.17	0.44
25:CA:2142:A:H2'	25:CA:2143:C:H6	1.79	0.44
25:CA:2186:G:C4	25:CA:2187:U:C5	3.05	0.44
25:CA:2408:U:H2'	25:CA:2409:G:C8	2.52	0.44
25:CA:2550:G:O2'	25:CA:2551:C:H5'	2.16	0.44
25:CA:2703:C:C2	25:CA:2704:C:C5	3.05	0.44
25:CA:634:C:H2'	25:CA:635:C:O4'	2.17	0.44
25:CA:704:G:H1'	25:CA:726:G:N2	2.32	0.44
25:CA:707:G:N2	25:CA:708:G:H1'	2.32	0.44
25:CA:892:A:H2	25:CA:893:C:C6	2.34	0.44
25:CA:978:G:H2'	25:CA:979:A:C5'	2.46	0.44
26:CB:28:C:H2'	26:CB:29:A:O4'	2.17	0.44
26:CB:43:C:O2'	30:CF:91:ARG:HG3	2.17	0.44
26:CB:78:A:H61	26:CB:98:G:C2'	2.30	0.44
28:CD:49:GLN:OE1	28:CD:67:HIS:HE1	1.99	0.44
30:CF:69:ALA:CB	30:CF:82:TYR:O	2.65	0.44
32:CH:50:ARG:NH1	32:CH:50:ARG:HA	2.33	0.44
33:CI:104:GLN:O	33:CI:105:LEU:HB2	2.17	0.44
35:CK:77:ILE:N	35:CK:77:ILE:HD13	2.31	0.44
25:CA:2392:A:C2	36:CL:55:MET:CE	2.99	0.44
36:CL:99:ASN:ND2	36:CL:99:ASN:O	2.50	0.44
38:CN:23:ASN:O	38:CN:24:MET:C	2.54	0.44
38:CN:8:ARG:HD2	38:CN:43:GLU:CG	2.47	0.44
25:DA:126:A:C5	53:D2:18:PHE:CD2	3.05	0.44
25:DA:1071:G:C5	25:DA:1089:A:C6	3.05	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1203:U:C4	25:DA:1204:A:C5	3.05	0.44
25:DA:1334:G:C6	25:DA:1335:C:C4	3.05	0.44
25:DA:1372:U:C2'	25:DA:1373:A:C5'	2.95	0.44
25:DA:1432:G:N2	25:DA:1433:A:N3	2.66	0.44
25:DA:1458:U:C4'	25:DA:1459:G:O5'	2.57	0.44
25:DA:1490:A:H2'	25:DA:1490:A:N3	2.31	0.44
25:DA:1588:G:C2	25:DA:1589:U:N3	2.85	0.44
25:DA:1630:A:H2'	25:DA:1631:G:H5'	1.98	0.44
25:DA:1712:U:H2'	25:DA:1713:A:C8	2.51	0.44
25:DA:2133:G:N3	25:DA:2158:A:N1	2.64	0.44
25:DA:229:C:C2'	25:DA:230:G:O5'	2.65	0.44
25:DA:575:A:H4'	25:DA:2500:U:H5''	2.00	0.44
25:DA:2562:U:O2	25:DA:2562:U:H2'	2.17	0.44
25:DA:9:G:C6	25:DA:2629:U:C6	3.06	0.44
25:DA:2817:U:OP1	38:DN:99:LYS:CE	2.64	0.44
25:DA:181:A:C2	25:DA:435:C:C5	3.04	0.44
25:DA:443:A:N1	25:DA:1245:G:O2'	2.45	0.44
25:DA:648:G:H8	25:DA:648:G:O5'	2.01	0.44
27:DC:129:LEU:HD12	27:DC:133:ASN:HB2	1.98	0.44
27:DC:215:VAL:O	27:DC:215:VAL:CG1	2.65	0.44
29:DE:1:MET:HE2	29:DE:19:PHE:C	2.37	0.44
13:BM:6:ILE:HD11	30:DF:111:ARG:HD3	1.98	0.44
30:DF:7:TYR:CA	30:DF:11:VAL:HB	2.44	0.44
31:DG:106:LEU:HD21	31:DG:161:VAL:HG23	1.99	0.44
31:DG:139:VAL:O	31:DG:142:GLN:HB3	2.17	0.44
31:DG:51:PHE:CD2	31:DG:68:ARG:HA	2.52	0.44
32:DH:143:ILE:HG22	32:DH:144:VAL:N	2.31	0.44
34:DJ:105:VAL:HG11	34:DJ:122:LEU:CD2	2.47	0.44
35:DK:90:ASN:ND2	35:DK:90:ASN:H	2.14	0.44
37:DM:57:VAL:HG11	37:DM:105:MET:HE2	2.00	0.44
37:DM:74:THR:HA	37:DM:88:ASN:O	2.17	0.44
38:DN:22:ARG:HG2	38:DN:23:ASN:N	2.33	0.44
40:DP:97:TYR:CD2	40:DP:100:ARG:NH2	2.84	0.44
44:DT:30:ILE:HD13	44:DT:31:VAL:N	2.33	0.44
45:DU:6:ARG:HG3	45:DU:7:ASP:H	1.82	0.44
45:DU:94:PHE:CD1	45:DU:94:PHE:C	2.91	0.44
1:AA:1193:G:C2'	1:AA:1194:U:H5'	2.48	0.44
1:AA:1416:G:C2	1:AA:1485:U:O2	2.70	0.44
1:AA:721:G:H4'	1:AA:722:G:O4'	2.17	0.44
1:AA:918:A:H2'	1:AA:919:A:H8	1.78	0.44
1:AA:923:A:O5'	1:AA:923:A:H8	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:170:ILE:O	2:AB:171:ALA:C	2.55	0.44
2:AB:162:VAL:O	2:AB:184:ALA:HA	2.17	0.44
2:AB:184:ALA:HB3	2:AB:195:VAL:HG22	1.98	0.44
2:AB:53:LEU:HD12	2:AB:56:LEU:HD12	1.98	0.44
2:AB:57:ASN:HB2	2:AB:219:THR:O	2.18	0.44
3:AC:140:ALA:H	3:AC:142:ARG:HB3	1.82	0.44
3:AC:79:LYS:O	3:AC:81:GLU:N	2.51	0.44
4:AD:96:ARG:HB3	4:AD:98:ASP:OD1	2.16	0.44
5:AE:98:ALA:O	5:AE:100:GLU:N	2.50	0.44
6:AF:64:VAL:HG13	6:AF:65:GLU:N	2.31	0.44
6:AF:90:MET:O	6:AF:91:ARG:O	2.34	0.44
7:AG:65:LEU:O	7:AG:67:ASN:N	2.49	0.44
9:AI:25:GLY:N	9:AI:58:GLU:HG2	2.31	0.44
10:AJ:53:ILE:HD11	10:AJ:63:ASP:CG	2.38	0.44
1:AA:676:A:H5''	11:AK:114:PRO:HB3	2.00	0.44
13:AM:6:ILE:HG21	30:CF:144:LYS:HE3	2.00	0.44
17:AQ:10:ARG:HG3	17:AQ:10:ARG:HH11	1.83	0.44
1:AA:636:U:H5''	17:AQ:5:ARG:HG2	1.99	0.44
18:AR:71:ASP:OD1	18:AR:72:ARG:HG2	2.17	0.44
19:AS:63:ASP:HB3	30:CF:114:ARG:NH2	2.33	0.44
24:AY:56:ALA:CB	24:AY:70:VAL:HA	2.46	0.44
1:BA:1032:G:N2	1:BA:1033:G:O4'	2.50	0.44
1:BA:1097:C:H5''	2:BB:138:ARG:HH21	1.81	0.44
1:BA:1120:C:H2'	1:BA:1121:U:C6	2.50	0.44
1:BA:1165:U:C2'	1:BA:1166:G:H5'	2.46	0.44
1:BA:1261:A:H5'	1:BA:1262:C:OP2	2.17	0.44
1:BA:1317:C:O2'	1:BA:1318:A:OP1	2.34	0.44
1:BA:1491:G:C2'	1:BA:1492:A:O5'	2.65	0.44
1:BA:16:A:O2'	1:BA:17:U:H5'	2.18	0.44
1:BA:503:C:O2	1:BA:510:A:H2	2.01	0.44
1:BA:560:A:N7	1:BA:566:G:C5	2.84	0.44
1:BA:85:U:H4'	1:BA:86:G:H5'	1.99	0.44
1:BA:943:U:H2'	1:BA:944:G:H5'	1.99	0.44
2:BB:110:ILE:HD11	2:BB:147:LEU:HD22	2.00	0.44
2:BB:71:THR:O	2:BB:72:LYS:HG3	2.17	0.44
3:BC:17:TRP:CZ2	14:BN:95:GLY:CA	2.97	0.44
4:BD:160:LEU:O	4:BD:163:GLN:N	2.49	0.44
5:BE:100:GLU:O	5:BE:102:THR:CA	2.64	0.44
6:BF:88:MET:HG2	6:BF:90:MET:HG2	1.98	0.44
8:BH:48:PHE:O	8:BH:49:LYS:HB2	2.16	0.44
9:BI:5:TYR:HB2	9:BI:20:ILE:HG22	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:35:GLN:HG2	10:BJ:77:VAL:CB	2.47	0.44
11:BK:69:CYS:O	11:BK:73:VAL:CG1	2.65	0.44
17:BQ:10:ARG:NH2	17:BQ:12:VAL:N	2.65	0.44
25:CA:1084:A:C2'	25:CA:1085:A:C8	3.00	0.44
25:CA:120:U:H4'	25:CA:121:G:H5''	1.99	0.44
25:CA:1386:C:H2'	25:CA:1387:A:C8	2.52	0.44
25:CA:2146:C:H4'	25:CA:2147:A:C8	2.51	0.44
25:CA:2216:G:H2'	25:CA:2217:G:H8	1.82	0.44
25:CA:2343:U:H2'	25:CA:2344:U:C5	2.51	0.44
25:CA:2644:G:C2'	25:CA:2645:G:H5'	2.47	0.44
25:CA:2658:C:H2'	25:CA:2658:C:O2	2.16	0.44
25:CA:2768:U:H2'	25:CA:2769:U:O5'	2.17	0.44
25:CA:634:C:H2'	25:CA:635:C:C6	2.52	0.44
28:CD:4:LEU:HD23	28:CD:101:PHE:HE1	1.82	0.44
29:CE:136:GLN:HE22	29:CE:139:LYS:NZ	2.15	0.44
30:CF:107:VAL:HG12	30:CF:108:PRO:N	2.31	0.44
31:CG:71:LEU:O	31:CG:72:ASN:C	2.55	0.44
33:CI:57:VAL:HG23	33:CI:71:LYS:HZ1	1.79	0.44
33:CI:58:ILE:HA	33:CI:68:PHE:HB3	1.99	0.44
34:CJ:98:GLU:HB3	34:CJ:124:VAL:HG22	1.98	0.44
35:CK:77:ILE:HD12	40:CP:71:ARG:HG3	2.00	0.44
36:CL:124:GLY:C	36:CL:125:LEU:HD12	2.38	0.44
36:CL:23:ILE:O	36:CL:24:GLY:C	2.55	0.44
37:CM:16:ARG:HG2	37:CM:16:ARG:NH1	2.23	0.44
38:CN:12:ARG:NH1	38:CN:20:MET:HE1	2.32	0.44
39:CO:55:GLU:HG3	39:CO:58:ILE:HG13	1.99	0.44
40:CP:32:VAL:HG12	40:CP:34:GLY:O	2.17	0.44
42:CR:51:VAL:CG2	42:CR:52:PRO:HD2	2.46	0.44
44:CT:18:GLU:O	44:CT:22:THR:HG23	2.17	0.44
44:CT:67:VAL:HG12	44:CT:68:LYS:N	2.32	0.44
25:DA:1043:C:C4	25:DA:1044:C:C5	3.05	0.44
25:DA:1383:A:N1	25:DA:1384:A:N1	2.65	0.44
25:DA:1403:A:H2'	25:DA:1404:C:H6	1.82	0.44
25:DA:1448:G:N1	25:DA:1449:G:C5	2.85	0.44
25:DA:1489:C:N3	25:DA:1501:G:C2	2.84	0.44
25:DA:1526:C:N3	25:DA:1527:G:C5	2.86	0.44
25:DA:1669:A:H2'	25:DA:1669:A:N3	2.32	0.44
25:DA:1676:A:N1	25:DA:1677:A:C2	2.85	0.44
25:DA:1750:G:C2'	25:DA:1751:U:O5'	2.65	0.44
25:DA:2093:G:C5	25:DA:2225:A:C8	3.05	0.44
25:DA:2110:G:C5	25:DA:2120:G:C8	3.05	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2111:U:H1'	25:DA:2118:U:O4'	2.17	0.44
25:DA:2407:A:C2	25:DA:2408:U:C5	3.05	0.44
25:DA:2702:G:C6	25:DA:2703:C:N4	2.85	0.44
25:DA:2685:G:C2	25:DA:2725:A:C2	3.05	0.44
25:DA:501:A:N6	25:DA:502:A:C6	2.85	0.44
25:DA:54:G:C2'	25:DA:55:G:O5'	2.66	0.44
25:DA:609:A:C8	25:DA:610:C:C5	3.05	0.44
25:DA:920:A:C2'	25:DA:921:C:O5'	2.65	0.44
25:DA:945:A:C4'	25:DA:946:C:OP2	2.66	0.44
56:DB:42:C:C6	30:DF:65:LEU:HD22	2.52	0.44
27:DC:119:VAL:HG13	27:DC:133:ASN:HD21	1.82	0.44
13:BM:6:ILE:CG1	30:DF:111:ARG:HD3	2.46	0.44
30:DF:16:MET:HE3	30:DF:16:MET:HA	1.99	0.44
33:DI:116:MET:HE3	33:DI:128:ILE:CD1	2.47	0.44
34:DJ:58:ASN:ND2	34:DJ:61:LYS:HD3	2.33	0.44
35:DK:105:ARG:O	35:DK:108:ARG:CB	2.66	0.44
35:DK:13:ASN:OD1	35:DK:13:ASN:O	2.35	0.44
25:DA:636:G:OP2	36:DL:128:THR:HG22	2.17	0.44
36:DL:127:VAL:CG1	36:DL:131:ALA:HB3	2.42	0.44
37:DM:21:ALA:HB1	37:DM:100:LYS:CG	2.39	0.44
38:DN:27:SER:O	38:DN:31:HIS:HB2	2.17	0.44
39:DO:51:ALA:HB3	39:DO:78:VAL:CG2	2.41	0.44
41:DQ:103:VAL:O	41:DQ:104:ALA:C	2.56	0.44
41:DQ:48:ASP:O	41:DQ:49:ARG:C	2.54	0.44
42:DR:42:ALA:HA	42:DR:46:GLU:CB	2.47	0.44
44:DT:27:SER:O	44:DT:28:ASN:HB2	2.17	0.44
44:DT:55:VAL:HG12	44:DT:55:VAL:O	2.17	0.44
45:DU:85:ARG:HG3	45:DU:92:VAL:HG23	1.97	0.44
46:DV:26:PHE:HD2	46:DV:44:HIS:HB2	1.81	0.44
1:AA:1218:C:O2'	1:AA:1219:A:H5'	2.17	0.44
1:AA:1253:G:C2	1:AA:1254:A:C5	3.06	0.44
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.17	0.44
1:AA:287:U:H2'	1:AA:288:A:C8	2.53	0.44
1:AA:496:A:C2	1:AA:497:G:N7	2.85	0.44
1:AA:749:A:N1	1:AA:750:C:N3	2.66	0.44
2:AB:130:LYS:HA	2:AB:130:LYS:CE	2.43	0.44
2:AB:134:LEU:HA	2:AB:137:THR:HG23	2.00	0.44
3:AC:22:PHE:C	3:AC:22:PHE:HD2	2.20	0.44
4:AD:55:ARG:NH2	4:AD:58:GLN:HG2	2.33	0.44
4:AD:54:LEU:HD23	4:AD:58:GLN:HB2	1.99	0.44
5:AE:100:GLU:CB	5:AE:121:ASN:CB	2.95	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:12:PRO:O	6:AF:13:ASP:C	2.56	0.44
11:AK:22:ILE:CG1	11:AK:22:ILE:O	2.65	0.44
14:AN:1:ALA:HB3	14:AN:68:GLY:HA3	1.99	0.44
14:AN:64:CYS:HB2	14:AN:80:SER:CB	2.48	0.44
15:AO:88:ARG:NH1	25:CA:716:A:OP1	2.50	0.44
1:AA:452:A:H1'	16:AP:70:ARG:NH1	2.32	0.44
1:BA:1027:C:N4	1:BA:1034:G:O6	2.50	0.44
1:BA:1072:G:C4	1:BA:1073:U:C5	3.04	0.44
1:BA:1227:A:N1	1:BA:1228:C:C2	2.86	0.44
1:BA:1244:G:N1	1:BA:1294:G:C6	2.86	0.44
1:BA:1239:A:N6	1:BA:1299:A:H62	2.16	0.44
1:BA:1360:A:C8	14:BN:58:SER:HB3	2.52	0.44
1:BA:1429:A:C4	1:BA:1430:A:C8	3.06	0.44
1:BA:149:A:N1	1:BA:150:U:C2	2.86	0.44
1:BA:174:A:H2'	1:BA:175:C:C5'	2.48	0.44
1:BA:22:G:H2'	1:BA:23:C:H6	1.82	0.44
1:BA:232:G:C5	1:BA:233:C:C5	3.05	0.44
1:BA:802:A:H2'	1:BA:802:A:N3	2.32	0.44
1:BA:953:G:O6	1:BA:1228:C:N4	2.50	0.44
1:BA:982:U:C4'	1:BA:983:A:H5'	2.44	0.44
2:BB:40:ILE:O	2:BB:40:ILE:HD12	2.17	0.44
2:BB:58:LYS:H	2:BB:60:ALA:H	1.65	0.44
2:BB:58:LYS:O	2:BB:62:ARG:HB2	2.18	0.44
3:BC:27:GLU:HG2	3:BC:27:GLU:O	2.16	0.44
3:BC:36:PHE:HA	3:BC:39:ARG:HD2	1.99	0.44
5:BE:12:GLU:HB2	5:BE:63:MET:HE1	1.99	0.44
5:BE:95:MET:HB3	5:BE:95:MET:HE3	1.81	0.44
6:BF:16:GLU:O	6:BF:19:PRO:CD	2.62	0.44
6:BF:18:VAL:CA	6:BF:21:MET:HE2	2.47	0.44
5:BE:82:HIS:CG	8:BH:95:MET:CE	2.97	0.44
9:BI:42:THR:HA	9:BI:44:ARG:HH21	1.82	0.44
11:BK:58:THR:HB	11:BK:59:PRO:CD	2.48	0.44
11:BK:81:LEU:N	11:BK:81:LEU:CD2	2.81	0.44
11:BK:84:MET:CE	11:BK:112:VAL:HG11	2.47	0.44
1:BA:551:U:H5'	12:BL:115:LYS:HE2	2.00	0.44
12:BL:23:LEU:C	12:BL:25:ALA:H	2.20	0.44
14:BN:35:ALA:CB	14:BN:42:TRP:CH2	2.99	0.44
21:BU:36:PHE:HB3	21:BU:37:TYR:H	1.59	0.44
22:BV:60:U:H5''	22:BV:61:C:H5	1.83	0.44
23:BX:6:G:O2'	23:BX:7:G:H5'	2.16	0.44
25:CA:1078:U:O2	25:CA:1088:A:C2	2.71	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1315:C:C2'	25:CA:1316:U:O5'	2.65	0.44
25:CA:1420:A:O2'	25:CA:1421:G:C5'	2.64	0.44
25:CA:2120:G:HO2'	25:CA:2121:G:H5'	1.82	0.44
25:CA:2124:G:C2'	25:CA:2125:G:H5'	2.46	0.44
25:CA:2145:C:C5	25:CA:2147:A:C2	3.05	0.44
25:CA:2291:U:H5''	25:CA:2380:C:O2'	2.16	0.44
25:CA:2419:U:H2'	25:CA:2420:C:C6	2.53	0.44
25:CA:401:A:H2'	25:CA:402:A:O4'	2.16	0.44
25:CA:545:U:H2'	25:CA:546:U:O3'	2.16	0.44
25:CA:90:U:H2'	25:CA:91:A:N7	2.32	0.44
26:CB:20:G:C2	26:CB:64:G:N3	2.86	0.44
26:CB:33:G:H2'	26:CB:34:A:C5'	2.46	0.44
26:CB:85:G:H2'	26:CB:86:G:O5'	2.18	0.44
27:CC:86:ARG:HG3	27:CC:88:ALA:H	1.82	0.44
28:CD:4:LEU:CD2	28:CD:101:PHE:HE1	2.31	0.44
25:CA:2094:A:P	32:CH:22:LYS:HD2	2.57	0.44
35:CK:58:LEU:CD2	35:CK:58:LEU:N	2.81	0.44
35:CK:98:ARG:O	35:CK:99:ILE:HD13	2.18	0.44
25:CA:1244:A:OP1	36:CL:7:SER:HB2	2.16	0.44
39:CO:29:HIS:CD2	39:CO:30:ARG:H	2.36	0.44
41:CQ:40:LYS:O	41:CQ:41:ALA:C	2.54	0.44
44:CT:3:ARG:O	44:CT:6:ARG:HB3	2.18	0.44
25:CA:72:U:O2	49:CY:51:ALA:HB1	2.17	0.44
50:CZ:23:LEU:HD11	50:CZ:53:MET:HE2	1.99	0.44
50:CZ:2:LYS:H	50:CZ:2:LYS:HD3	1.82	0.44
25:DA:1063:G:C8	25:DA:1064:C:C5	3.05	0.44
25:DA:1142:A:C5	25:DA:1144:A:C5	3.05	0.44
25:DA:1157:G:H2'	25:DA:1158:C:H6	1.81	0.44
25:DA:1190:G:P	36:DL:32:GLY:HA2	2.57	0.44
25:DA:1396:U:O4'	25:DA:1396:U:O2	2.31	0.44
25:DA:1399:C:O2'	25:DA:1400:U:H5'	2.17	0.44
25:DA:2080:A:O5'	48:DX:18:SER:CB	2.64	0.44
25:DA:2148:G:C2'	25:DA:2149:U:H6	2.30	0.44
25:DA:2162:G:H21	25:DA:2163:A:H1'	1.81	0.44
25:DA:2324:U:C2'	25:DA:2325:G:OP1	2.65	0.44
25:DA:2661:G:C2'	25:DA:2662:A:O5'	2.66	0.44
25:DA:2688:G:H2'	25:DA:2689:U:OP2	2.17	0.44
25:DA:528:A:C2	25:DA:2043:C:C4'	3.00	0.44
25:DA:532:A:HO2'	25:DA:2021:C:H5	1.58	0.44
25:DA:549:G:N3	25:DA:549:G:H5'	2.31	0.44
25:DA:621:A:H2'	25:DA:622:G:O4'	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:640:C:H2'	25:DA:641:U:H6	1.82	0.44
25:DA:715:A:C6	25:DA:716:A:C6	3.05	0.44
25:DA:729:G:C2'	25:DA:729:G:N3	2.80	0.44
25:DA:60:G:N1	25:DA:74:A:C6	2.85	0.44
25:DA:797:G:C6	25:DA:798:G:C5	3.06	0.44
25:DA:858:G:H3'	25:DA:859:G:C8	2.52	0.44
25:DA:994:C:O2'	25:DA:996:A:OP1	2.32	0.44
56:DB:27:C:H2'	56:DB:28:C:O5'	2.18	0.44
27:DC:15:VAL:HG22	27:DC:205:GLY:HA3	1.99	0.44
29:DE:164:LEU:HB2	29:DE:167:VAL:HB	1.99	0.44
29:DE:200:LEU:CD1	29:DE:200:LEU:N	2.80	0.44
30:DF:105:ILE:C	30:DF:108:PRO:HD2	2.38	0.44
30:DF:36:ASN:ND2	30:DF:37:MET:N	2.65	0.44
31:DG:126:THR:HG22	31:DG:127:GLN:H	1.82	0.44
31:DG:152:ARG:HH21	31:DG:152:ARG:HB2	1.81	0.44
31:DG:39:ALA:O	31:DG:54:ARG:HB3	2.18	0.44
31:DG:30:GLY:C	31:DG:78:VAL:HG12	2.37	0.44
32:DH:2:GLN:HB3	32:DH:39:ALA:CB	2.48	0.44
35:DK:76:VAL:HG22	35:DK:77:ILE:N	2.32	0.44
37:DM:27:SER:O	37:DM:28:PHE:CD2	2.70	0.44
40:DP:32:VAL:HA	40:DP:36:LYS:O	2.18	0.44
45:DU:87:GLU:HB2	45:DU:92:VAL:HG21	1.99	0.44
45:DU:87:GLU:O	45:DU:88:ASP:CB	2.65	0.44
37:DM:136:MET:CE	46:DV:57:TYR:CD2	3.00	0.44
46:DV:60:VAL:HG22	46:DV:73:LYS:HG3	1.98	0.44
46:DV:6:ALA:HB1	46:DV:41:GLU:O	2.18	0.44
49:DY:56:LEU:CD2	49:DY:59:GLU:OE1	2.66	0.44
25:DA:988:A:P	50:DZ:11:SER:HB2	2.57	0.44
1:AA:1032:G:N3	1:AA:1032:G:H3'	2.32	0.44
1:AA:1118:U:H1'	1:AA:1179:A:C4	2.52	0.44
1:AA:1135:U:O4'	1:AA:1135:U:OP2	2.36	0.44
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.18	0.44
1:AA:15:G:H4'	5:AE:28:ARG:NH1	2.32	0.44
1:AA:380:G:C4	1:AA:382:A:OP2	2.71	0.44
1:AA:463:U:C2'	1:AA:463:U:O2	2.65	0.44
1:AA:788:U:C2'	1:AA:789:U:H5'	2.47	0.44
1:AA:865:A:C2	1:AA:918:A:H4'	2.53	0.44
1:AA:918:A:H2'	1:AA:919:A:O5'	2.16	0.44
1:AA:943:U:O2'	1:AA:944:G:H5'	2.18	0.44
2:AB:195:VAL:HG12	2:AB:197:PHE:C	2.37	0.44
3:AC:129:PHE:O	3:AC:130:ARG:C	2.55	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:171:ARG:O	3:AC:172:VAL:CG2	2.66	0.44
9:AI:38:PHE:HA	9:AI:41:GLU:OE1	2.17	0.44
10:AJ:53:ILE:HB	10:AJ:61:ALA:HB1	1.97	0.44
12:AL:34:THR:O	12:AL:35:ARG:HG3	2.17	0.44
12:AL:41:PRO:HD3	12:AL:47:ALA:O	2.17	0.44
16:AP:53:ASP:C	16:AP:53:ASP:OD1	2.55	0.44
18:AR:44:THR:OG1	18:AR:46:THR:HB	2.17	0.44
21:AU:13:VAL:O	21:AU:15:LEU:HD11	2.17	0.44
1:BA:1018:G:O6	1:BA:1019:A:N6	2.51	0.44
1:BA:1074:G:H4'	2:BB:102:ASN:HB3	2.00	0.44
1:BA:110:C:H2'	1:BA:111:G:O4'	2.17	0.44
1:BA:1533:C:H4'	1:BA:1534:A:OP1	2.16	0.44
1:BA:306:A:H2'	1:BA:307:C:H5'	1.99	0.44
1:BA:39:G:O2'	1:BA:40:C:H5'	2.17	0.44
1:BA:647:C:H2'	1:BA:647:C:O2	2.17	0.44
1:BA:782:A:H4'	1:BA:1514:G:O2'	2.16	0.44
1:BA:840:C:C3'	1:BA:841:C:C5'	2.96	0.44
3:BC:130:ARG:H	3:BC:130:ARG:NE	2.15	0.44
4:BD:47:LEU:HD23	4:BD:52:VAL:HG13	1.98	0.44
4:BD:87:GLU:O	4:BD:89:LEU:N	2.50	0.44
6:BF:76:THR:O	6:BF:79:ARG:HB2	2.18	0.44
8:BH:19:ALA:C	8:BH:21:LYS:N	2.71	0.44
14:BN:18:LYS:HB3	14:BN:19:TYR:HD1	1.83	0.44
14:BN:43:ASN:C	14:BN:45:VAL:H	2.19	0.44
15:BO:36:ASN:C	15:BO:38:LEU:N	2.70	0.44
17:BQ:13:SER:HB3	17:BQ:21:VAL:HG11	1.92	0.44
18:BR:32:ILE:HA	18:BR:39:VAL:HG23	1.98	0.44
1:BA:1014:A:O3'	19:BS:13:HIS:CE1	2.70	0.44
1:BA:1314:C:C5	19:BS:5:LYS:HE2	2.53	0.44
20:BT:42:ASP:O	20:BT:43:LYS:C	2.53	0.44
25:CA:100:U:N3	25:CA:101:A:N6	2.65	0.44
25:CA:1021:A:N3	25:CA:1021:A:H3'	2.32	0.44
25:CA:1072:C:P	25:CA:1075:C:N4	2.91	0.44
25:CA:1104:C:H2'	25:CA:1105:U:C6	2.52	0.44
25:CA:1483:G:C6	25:CA:1484:U:C4	3.05	0.44
25:CA:1509:A:H1'	25:CA:1510:G:H5'	1.99	0.44
25:CA:1586:A:H3'	25:CA:1586:A:C8	2.53	0.44
25:CA:1410:G:C2	25:CA:1593:A:C2	3.06	0.44
25:CA:1827:U:H2'	25:CA:1828:G:O5'	2.18	0.44
25:CA:2075:U:O2'	25:CA:2077:A:OP2	2.33	0.44
25:CA:2146:C:H5'	25:CA:2147:A:N7	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:361:G:O2'	25:CA:362:A:P	2.75	0.44
25:CA:272:A:C2	25:CA:366:C:O2	2.70	0.44
25:CA:812:C:H5''	25:CA:1250:G:O2'	2.17	0.44
25:CA:846:U:O2'	25:CA:847:U:C6	2.66	0.44
25:CA:838:C:C2	25:CA:941:A:C2	3.05	0.44
26:CB:94:A:C5	26:CB:95:U:C5	3.06	0.44
27:CC:24:HIS:CD2	27:CC:79:ARG:NH2	2.85	0.44
28:CD:84:LEU:HD23	28:CD:84:LEU:HA	1.73	0.44
29:CE:180:LEU:HD23	29:CE:180:LEU:HA	1.77	0.44
29:CE:189:THR:CG2	29:CE:191:ASP:N	2.80	0.44
30:CF:151:LEU:HD13	30:CF:151:LEU:HA	1.91	0.44
31:CG:54:ARG:O	31:CG:55:ASP:C	2.56	0.44
36:CL:47:ARG:HH21	36:CL:47:ARG:HG2	1.81	0.44
37:CM:2:LEU:HB2	37:CM:69:PRO:HG2	1.98	0.44
42:CR:49:ILE:O	42:CR:50:GLY:O	2.35	0.44
45:CU:60:LYS:HG3	45:CU:61:GLU:H	1.82	0.44
45:CU:71:ILE:CD1	45:CU:82:VAL:CG2	2.95	0.44
49:CY:5:GLU:HG3	49:CY:56:LEU:HD11	1.98	0.44
51:D0:16:ARG:O	51:D0:17:SER:C	2.55	0.44
51:D0:2:VAL:HG22	51:D0:3:GLN:N	2.33	0.44
25:DA:1043:C:N4	25:DA:1044:C:N4	2.65	0.44
25:DA:1078:U:H5''	25:DA:1079:C:P	2.57	0.44
25:DA:1105:U:HO2'	25:DA:1106:G:C5'	2.31	0.44
25:DA:1429:G:C2	25:DA:1430:G:C4	3.06	0.44
25:DA:1486:U:O5'	25:DA:1486:U:H6	2.01	0.44
25:DA:1794:A:H1'	25:DA:1900:A:N3	2.33	0.44
25:DA:2118:U:C5	25:DA:2149:U:H1'	2.53	0.44
25:DA:2291:U:H2'	25:DA:2292:U:H6	1.77	0.44
25:DA:2441:U:C2'	25:DA:2442:C:H5'	2.47	0.44
25:DA:2672:U:H2'	25:DA:2673:G:O5'	2.18	0.44
25:DA:2782:G:N2	25:DA:2783:U:N1	2.66	0.44
25:DA:404:A:O4'	25:DA:405:U:OP2	2.34	0.44
25:DA:669:G:N3	25:DA:669:G:C2'	2.80	0.44
25:DA:920:A:H2'	25:DA:921:C:O5'	2.18	0.44
56:DB:93:C:H2'	56:DB:94:A:C8	2.53	0.44
28:DD:3:GLY:O	28:DD:4:LEU:CD1	2.66	0.44
30:DF:3:LEU:O	30:DF:4:HIS:C	2.55	0.44
25:DA:2746:U:H4'	31:DG:138:GLN:HA	1.98	0.44
33:DI:72:THR:HG22	33:DI:112:LYS:HG2	1.99	0.44
37:DM:110:GLU:O	37:DM:110:GLU:HG2	2.17	0.44
40:DP:64:SER:N	40:DP:67:GLU:O	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DP:58:PHE:CE2	40:DP:73:PHE:HB2	2.51	0.44
43:DS:36:LEU:CD1	43:DS:48:LYS:CA	2.95	0.44
57:DW:22:PHE:O	57:DW:23:GLY:C	2.56	0.44
48:DX:4:CYS:SG	48:DX:51:SER:HB3	2.58	0.44
49:DY:24:GLU:C	49:DY:28:LEU:HD12	2.38	0.44
49:DY:32:ALA:O	49:DY:35:GLY:CA	2.65	0.44
50:DZ:9:THR:HG23	50:DZ:10:ARG:HG2	2.00	0.44
1:AA:103:U:H2'	1:AA:104:G:H8	1.82	0.44
1:AA:1000:A:N3	1:AA:1041:G:N2	2.66	0.44
1:AA:1060:U:O2'	10:AJ:54:SER:HB2	2.16	0.44
1:AA:1271:A:H2'	1:AA:1272:G:C8	2.52	0.44
1:AA:1286:U:O2	1:AA:1286:U:C2'	2.65	0.44
1:AA:1481:U:C2'	1:AA:1481:U:O2	2.62	0.44
1:AA:204:G:N3	1:AA:465:A:C2	2.84	0.44
1:AA:203:G:C2	1:AA:215:C:C2	3.06	0.44
1:AA:496:A:N3	1:AA:497:G:N7	2.65	0.44
2:AB:172:ILE:O	2:AB:175:ALA:HB3	2.17	0.44
2:AB:23:ASN:O	2:AB:26:MET:HB2	2.18	0.44
3:AC:16:PRO:O	3:AC:17:TRP:CE3	2.71	0.44
3:AC:59:PRO:O	3:AC:60:ALA:CB	2.65	0.44
4:AD:94:GLU:CG	4:AD:185:PRO:HG2	2.47	0.44
4:AD:62:ARG:HE	4:AD:62:ARG:CA	2.30	0.44
5:AE:141:ASP:O	5:AE:143:LEU:N	2.50	0.44
5:AE:158:LYS:O	8:AH:63:LYS:CE	2.65	0.44
1:AA:1280:A:H5''	10:AJ:42:LEU:HD21	1.98	0.44
13:AM:11:HIS:C	13:AM:43:LYS:HE3	2.38	0.44
13:AM:8:ILE:O	13:AM:8:ILE:HG22	2.18	0.44
1:AA:1308:U:O3'	13:AM:90:HIS:HE1	2.00	0.44
16:AP:60:TRP:HB3	16:AP:65:ALA:HB2	2.00	0.44
20:AT:27:MET:CG	20:AT:31:ILE:HD11	2.45	0.44
20:AT:73:ARG:O	20:AT:76:ALA:HB3	2.17	0.44
21:AU:9:GLU:OE2	21:AU:10:PRO:HD3	2.17	0.44
22:AV:50:U:N3	22:AV:51:U:C5	2.85	0.44
1:BA:1014:A:H4'	19:BS:13:HIS:CE1	2.52	0.44
1:BA:1061:G:C8	1:BA:1062:U:C5	3.06	0.44
1:BA:1113:C:O2'	3:BC:13:ILE:HD11	2.17	0.44
1:BA:1212:U:OP1	1:BA:1212:U:C6	2.70	0.44
1:BA:1441:A:H3'	1:BA:1441:A:H8	1.77	0.44
1:BA:1451:U:C5'	1:BA:1452:C:H5	2.30	0.44
1:BA:358:U:H2'	1:BA:359:G:H8	1.79	0.44
1:BA:445:G:H2'	1:BA:445:G:N3	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:68:G:C6	1:BA:69:G:H1'	2.51	0.44
1:BA:734:G:O2'	1:BA:735:C:H5'	2.18	0.44
1:BA:942:G:N2	1:BA:943:U:C2	2.86	0.44
2:BB:17:HIS:O	2:BB:188:THR:CG2	2.65	0.44
3:BC:80:GLY:O	3:BC:84:GLU:HG2	2.18	0.44
4:BD:36:ALA:H	4:BD:37:PRO:CD	2.27	0.44
5:BE:153:ALA:HA	5:BE:156:ARG:HB3	1.99	0.44
5:BE:65:LYS:O	5:BE:69:ASN:HB2	2.18	0.44
6:BF:20:GLY:O	6:BF:24:ARG:HD3	2.17	0.44
6:BF:29:ILE:HG22	6:BF:30:THR:N	2.31	0.44
8:BH:29:SER:N	8:BH:32:LYS:HB2	2.32	0.44
9:BI:9:GLY:H	9:BI:84:ARG:HD3	1.79	0.44
11:BK:22:ILE:O	11:BK:22:ILE:CG1	2.65	0.44
11:BK:64:VAL:C	11:BK:66:ALA:N	2.67	0.44
13:BM:73:SER:O	13:BM:77:LYS:HG3	2.17	0.44
15:BO:42:PHE:HE1	15:BO:55:LEU:HD22	1.82	0.44
16:BP:38:PHE:CE2	16:BP:51:ARG:CB	3.01	0.44
18:BR:45:GLY:O	18:BR:46:THR:HG23	2.18	0.44
19:BS:52:ASN:HB3	19:BS:74:ALA:O	2.17	0.44
21:BU:44:ARG:O	21:BU:45:LYS:CB	2.66	0.44
25:CA:108:G:H2'	25:CA:109:C:C5'	2.48	0.44
25:CA:1217:U:C2'	25:CA:1217:U:O2	2.62	0.44
25:CA:1278:C:O2'	25:CA:1279:G:H5'	2.17	0.44
25:CA:1418:G:O6	25:CA:1578:U:H3'	2.18	0.44
25:CA:141:G:H5''	25:CA:142:A:C5	2.52	0.44
25:CA:1840:G:C6	25:CA:1841:U:C4	3.05	0.44
25:CA:186:G:C2	25:CA:187:G:C5	3.06	0.44
25:CA:1956:U:H2'	25:CA:1956:U:O2	2.17	0.44
25:CA:2058:A:H8	25:CA:2058:A:O5'	2.00	0.44
25:CA:2147:A:C8	25:CA:2147:A:H3'	2.52	0.44
25:CA:2884:U:C5	51:C0:39:ARG:NH2	2.86	0.44
25:CA:319:G:H2'	25:CA:320:A:O4'	2.18	0.44
25:CA:588:U:H2'	25:CA:589:U:C6	2.52	0.44
25:CA:833:A:OP1	36:CL:39:LYS:HD3	2.18	0.44
25:CA:901:C:O2	25:CA:901:C:C2'	2.65	0.44
27:CC:110:LYS:H	27:CC:110:LYS:HE2	1.83	0.44
27:CC:83:ASP:OD1	27:CC:84:PRO:CD	2.66	0.44
29:CE:60:TRP:O	29:CE:61:ARG:C	2.56	0.44
31:CG:164:ALA:C	31:CG:166:GLU:H	2.21	0.44
36:CL:81:ASP:OD2	36:CL:100:ILE:HD13	2.17	0.44
38:CN:21:PHE:CE2	38:CN:24:MET:HE3	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CP:64:SER:O	40:CP:66:GLY:N	2.50	0.44
25:DA:1076:C:H2'	25:DA:1077:A:O5'	2.18	0.44
25:DA:1333:G:N2	25:DA:1334:G:N9	2.65	0.44
25:DA:1534:U:O2'	25:DA:1537:G:O6	2.35	0.44
25:DA:1635:A:C8	25:DA:1636:U:C5	3.06	0.44
25:DA:164:C:C2'	25:DA:165:A:H5'	2.46	0.44
25:DA:1872:A:H2'	25:DA:1873:G:O4'	2.18	0.44
25:DA:2146:C:H4'	25:DA:2147:A:OP1	2.17	0.44
25:DA:2296:U:O2	25:DA:2333:A:N1	2.50	0.44
25:DA:2417:C:H2'	25:DA:2417:C:O2	2.17	0.44
25:DA:2259:U:C5	25:DA:2427:C:N4	2.86	0.44
25:DA:2475:C:H2'	25:DA:2476:A:H5'	1.99	0.44
25:DA:2516:A:C2'	25:DA:2517:C:H5'	2.47	0.44
25:DA:2602:A:H4'	25:DA:2603:G:C5'	2.47	0.44
25:DA:2716:C:C2	25:DA:2717:C:C5	3.06	0.44
25:DA:770:G:C4	25:DA:771:G:C8	3.06	0.44
25:DA:845:A:H5'	25:DA:846:U:OP2	2.18	0.44
28:DD:62:LYS:N	28:DD:63:PRO:HD2	2.33	0.44
30:DF:98:PHE:O	30:DF:100:GLU:N	2.50	0.44
30:DF:98:PHE:HA	30:DF:101:ARG:NH2	2.33	0.44
31:DG:83:THR:CG2	31:DG:133:LYS:HG3	2.47	0.44
31:DG:89:VAL:HG23	31:DG:160:GLY:O	2.17	0.44
32:DH:3:VAL:N	32:DH:39:ALA:CB	2.81	0.44
25:DA:1070:A:H61	33:DI:10:LEU:HB3	1.82	0.44
33:DI:79:LEU:HD23	33:DI:83:ALA:HB2	2.00	0.44
38:DN:32:GLU:O	38:DN:114:GLU:HA	2.18	0.44
39:DO:14:ALA:O	39:DO:18:LEU:CD2	2.65	0.44
43:DS:36:LEU:HD13	43:DS:48:LYS:HB2	1.98	0.44
43:DS:70:LYS:O	43:DS:107:VAL:HA	2.16	0.44
45:DU:5:ARG:O	45:DU:8:ASP:CB	2.65	0.44
48:DX:29:LEU:HD22	48:DX:30:PRO:HD2	1.98	0.44
49:DY:57:LEU:HD12	49:DY:57:LEU:O	2.17	0.44
1:AA:1012:A:N6	1:AA:1013:G:C6	2.85	0.44
1:AA:1022:A:C6	1:AA:1023:U:C4	3.06	0.44
1:AA:1167:A:H5''	1:AA:1168:U:P	2.57	0.44
1:AA:1278:G:C4'	1:AA:1279:G:C8	3.01	0.44
1:AA:1320:C:O2	19:AS:35:ARG:NH1	2.50	0.44
1:AA:1378:C:H3'	1:AA:1378:C:C6	2.53	0.44
1:AA:259:G:C4	1:AA:260:G:C8	3.04	0.44
1:AA:429:U:H4'	1:AA:430:A:OP1	2.18	0.44
1:AA:583:A:H2'	1:AA:584:G:H5'	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:626:G:H2'	1:AA:627:G:C5'	2.46	0.44
1:AA:689:C:H2'	1:AA:690:G:O4'	2.18	0.44
1:AA:848:C:H2'	1:AA:849:G:O5'	2.17	0.44
1:AA:874:G:C6	1:AA:875:U:C4	3.05	0.44
4:AD:143:SER:HB2	4:AD:178:GLU:HA	1.99	0.44
4:AD:184:LYS:HA	4:AD:185:PRO:HD2	1.86	0.44
6:AF:50:PRO:O	6:AF:51:ILE:C	2.56	0.44
8:AH:48:PHE:O	8:AH:49:LYS:CG	2.65	0.44
8:AH:79:ARG:HB2	8:AH:80:PRO:HD2	2.00	0.44
9:AI:12:LYS:O	9:AI:12:LYS:HG2	2.17	0.44
9:AI:49:GLN:O	9:AI:51:LEU:N	2.51	0.44
10:AJ:15:HIS:CG	10:AJ:16:ARG:N	2.86	0.44
10:AJ:42:LEU:O	10:AJ:43:PRO:O	2.36	0.44
17:AQ:7:LEU:CB	17:AQ:60:ILE:HG22	2.46	0.44
24:AY:144:LEU:HA	24:AY:144:LEU:HD23	1.70	0.44
24:AY:50:THR:OG1	24:AY:55:LEU:HD21	2.17	0.44
1:BA:107:G:C2'	1:BA:108:G:H5''	2.47	0.44
1:BA:1142:G:C2	1:BA:1143:G:H1'	2.51	0.44
1:BA:1275:A:O2'	1:BA:1276:G:H5'	2.16	0.44
1:BA:154:U:O4	1:BA:167:A:N1	2.50	0.44
1:BA:59:A:C6	1:BA:331:G:N3	2.86	0.44
1:BA:376:G:H2'	1:BA:377:G:H8	1.83	0.44
1:BA:470:C:C6	1:BA:470:C:H3'	2.52	0.44
1:BA:663:A:N1	1:BA:743:A:C2	2.85	0.44
1:BA:883:C:C2'	1:BA:884:U:H5'	2.48	0.44
1:BA:892:A:C5	1:BA:893:C:C4	3.06	0.44
1:BA:74:A:N1	1:BA:97:G:C6	2.86	0.44
2:BB:206:ILE:N	2:BB:206:ILE:CD1	2.81	0.44
3:BC:153:SER:HB3	3:BC:164:THR:CB	2.47	0.44
3:BC:4:VAL:HG22	3:BC:5:HIS:N	2.33	0.44
3:BC:89:VAL:O	3:BC:93:ILE:HG13	2.18	0.44
4:BD:87:GLU:O	4:BD:88:ASN:C	2.54	0.44
5:BE:141:ASP:O	5:BE:145:ASN:ND2	2.51	0.44
7:BG:14:ASP:OD2	7:BG:14:ASP:C	2.56	0.44
21:BU:13:VAL:O	21:BU:15:LEU:CG	2.66	0.44
21:BU:17:ARG:O	21:BU:18:PHE:C	2.55	0.44
23:BX:14:A:N6	23:BX:15:A:N1	2.65	0.44
25:CA:1059:G:N2	25:CA:1080:A:H1'	2.33	0.44
25:CA:1079:C:C5	25:CA:1088:A:C2	3.05	0.44
25:CA:1355:G:C2'	25:CA:1356:G:O5'	2.66	0.44
25:CA:1535:A:C5'	25:CA:1536:C:C5	3.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1676:A:H2'	25:CA:1677:A:O5'	2.18	0.44
25:CA:1875:G:O2'	25:CA:1876:A:P	2.75	0.44
25:CA:2108:A:C6	25:CA:2109:U:O2	2.70	0.44
25:CA:2152:G:N7	25:CA:2153:C:C5	2.85	0.44
25:CA:2181:U:C2	25:CA:2182:U:C6	3.05	0.44
25:CA:2190:G:H3'	25:CA:2191:A:H8	1.82	0.44
25:CA:2297:A:C6	25:CA:2298:A:N7	2.85	0.44
25:CA:2757:A:N1	31:CG:66:THR:CG2	2.74	0.44
25:CA:2870:C:H2'	25:CA:2871:U:H5'	1.98	0.44
25:CA:2874:C:C2'	25:CA:2875:C:H5'	2.47	0.44
25:CA:382:A:C2'	25:CA:383:C:O5'	2.65	0.44
25:CA:825:A:C2	25:CA:833:A:C2	3.05	0.44
26:CB:51:G:C6	26:CB:52:A:N6	2.86	0.44
27:CC:176:ARG:HG2	27:CC:176:ARG:HH21	1.83	0.44
28:CD:187:LEU:O	28:CD:188:LEU:HD23	2.17	0.44
29:CE:145:ASP:HB3	29:CE:184:ASP:HB2	2.00	0.44
29:CE:52:VAL:CG1	29:CE:53:THR:N	2.81	0.44
29:CE:52:VAL:HG12	29:CE:53:THR:N	2.32	0.44
30:CF:105:ILE:HD12	30:CF:138:PRO:HG3	1.99	0.44
30:CF:51:ASN:HD22	30:CF:146:ASP:HB3	1.83	0.44
32:CH:41:LYS:O	32:CH:42:LYS:C	2.55	0.44
33:CI:16:MET:HA	33:CI:16:MET:CE	2.47	0.44
33:CI:17:ALA:O	33:CI:18:ASN:HB3	2.17	0.44
33:CI:37:PHE:CZ	33:CI:41:PHE:HD1	2.35	0.44
25:CA:1138:G:N3	34:CJ:108:MET:HE2	2.33	0.44
35:CK:91:SER:O	35:CK:92:GLU:C	2.56	0.44
40:CP:30:TRP:CD2	40:CP:39:LEU:HD11	2.52	0.44
44:CT:69:ARG:O	44:CT:69:ARG:HG3	2.18	0.44
44:CT:33:LYS:HG3	44:CT:80:TRP:CE3	2.52	0.44
49:CY:15:ASN:O	49:CY:19:LEU:HG	2.18	0.44
49:CY:43:LEU:HA	49:CY:43:LEU:HD23	1.76	0.44
55:D4:29:ALA:O	55:D4:31:PRO:HD3	2.18	0.44
25:DA:1125:G:C6	25:DA:1126:A:N6	2.86	0.44
25:DA:1127:A:C2'	25:DA:1128:G:H5'	2.48	0.44
25:DA:1208:C:C2	25:DA:1239:G:N2	2.86	0.44
25:DA:1268:A:H2'	25:DA:1269:A:O4'	2.18	0.44
25:DA:1421:G:H8	25:DA:1421:G:O5'	2.01	0.44
25:DA:1448:G:H2'	25:DA:1449:G:H8	1.83	0.44
25:DA:1452:G:H2'	25:DA:1457:U:O4	2.18	0.44
25:DA:1516:G:C2'	25:DA:1517:G:H5'	2.48	0.44
25:DA:1644:C:O2	25:DA:1644:C:H2'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1731:G:O2'	25:DA:1732:C:H2'	2.18	0.44
25:DA:1995:U:OP1	60:DA:3819:HOH:O	2.21	0.44
25:DA:2100:G:C5	25:DA:2190:G:C6	3.06	0.44
25:DA:2110:G:O2'	25:DA:2120:G:H5'	2.17	0.44
25:DA:2196:C:H2'	25:DA:2197:U:H5'	1.99	0.44
25:DA:2201:G:C5	25:DA:2223:G:C2	3.06	0.44
25:DA:22:C:C3'	25:DA:22:C:C6	3.01	0.44
25:DA:230:G:H2'	25:DA:231:A:H8	1.82	0.44
25:DA:2462:C:H2'	25:DA:2463:C:C6	2.53	0.44
25:DA:2511:U:H2'	25:DA:2512:C:H6	1.83	0.44
25:DA:283:G:H2'	25:DA:284:U:O4'	2.17	0.44
25:DA:295:G:C4	25:DA:344:A:C2	3.06	0.44
25:DA:381:G:C6	25:DA:382:A:C8	3.05	0.44
25:DA:391:A:H2'	25:DA:392:U:H5'	2.00	0.44
25:DA:734:A:C5	25:DA:735:A:C8	3.06	0.44
25:DA:869:G:C2'	25:DA:870:U:H5'	2.48	0.44
56:DB:57:A:C2'	56:DB:58:A:H5'	2.48	0.44
29:DE:170:ARG:NH2	29:DE:170:ARG:HG2	2.33	0.44
29:DE:28:VAL:HG12	29:DE:32:VAL:CG2	2.48	0.44
30:DF:131:VAL:O	30:DF:131:VAL:CG2	2.66	0.44
30:DF:16:MET:CE	30:DF:21:TYR:HB2	2.47	0.44
30:DF:72:SER:OG	30:DF:79:ARG:HA	2.17	0.44
31:DG:147:LEU:O	31:DG:150:TYR:HB2	2.18	0.44
36:DL:117:THR:HG22	36:DL:118:THR:N	2.32	0.44
37:DM:57:VAL:HG23	37:DM:58:LYS:O	2.18	0.44
38:DN:116:VAL:O	38:DN:116:VAL:CG1	2.61	0.44
39:DO:8:ILE:HG22	39:DO:9:ARG:N	2.32	0.44
41:DQ:105:PHE:C	41:DQ:107:ALA:N	2.71	0.44
43:DS:56:ALA:O	43:DS:57:ASN:C	2.56	0.44
45:DU:101:THR:CG2	45:DU:102:ILE:N	2.80	0.44
48:DX:70:LEU:O	48:DX:71:ARG:C	2.53	0.44
1:AA:1055:A:C6	1:AA:1056:U:C6	3.05	0.44
1:AA:1322:C:P	19:AS:77:ARG:HH21	2.41	0.44
1:AA:140:U:C2'	1:AA:141:G:O5'	2.66	0.44
1:AA:200:G:C2	1:AA:218:U:O2	2.71	0.44
1:AA:309:A:C2	1:AA:310:G:C8	3.05	0.44
1:AA:320:A:C2	1:AA:334:C:N3	2.86	0.44
1:AA:367:U:O2'	1:AA:368:U:H4'	2.18	0.44
1:AA:438:U:N3	1:AA:494:G:C6	2.86	0.44
1:AA:451:A:C8	1:AA:452:A:C2	3.06	0.44
1:AA:642:A:C6	1:AA:643:C:N3	2.85	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:646:G:C2	1:AA:647:C:C5	3.05	0.44
1:AA:980:C:C5	1:AA:981:U:N3	2.86	0.44
2:AB:132:GLU:O	2:AB:136:ARG:N	2.51	0.44
2:AB:199:ILE:O	2:AB:200:PRO:O	2.35	0.44
2:AB:34:ARG:HE	2:AB:35:ASN:N	2.16	0.44
5:AE:12:GLU:CB	5:AE:38:VAL:HG12	2.48	0.44
1:AA:1240:U:C2	7:AG:31:VAL:CG1	3.01	0.44
7:AG:91:ARG:NE	7:AG:93:VAL:HG21	2.32	0.44
8:AH:21:LYS:HE2	8:AH:21:LYS:CA	2.46	0.44
11:AK:37:GLN:N	11:AK:37:GLN:OE1	2.50	0.44
11:AK:52:ARG:O	11:AK:55:ARG:HG3	2.18	0.44
1:AA:552:U:H4'	12:AL:83:GLY:O	2.16	0.44
13:AM:52:ILE:HG22	13:AM:56:ARG:NH2	2.33	0.44
13:AM:65:GLU:O	13:AM:67:ASP:N	2.50	0.44
13:AM:80:MET:O	13:AM:81:ASP:C	2.56	0.44
19:AS:4:LEU:O	19:AS:5:LYS:CD	2.66	0.44
20:AT:72:ALA:O	20:AT:73:ARG:C	2.56	0.44
22:AV:65:G:H2'	22:AV:66:U:C6	2.52	0.44
24:AY:128:ALA:O	24:AY:129:VAL:C	2.56	0.44
24:AY:18:VAL:HG22	24:AY:172:ILE:CG1	2.48	0.44
1:BA:1275:A:C3'	1:BA:1276:G:H5'	2.43	0.44
1:BA:1310:G:C5	1:BA:1311:A:N7	2.86	0.44
1:BA:1350:A:C2	1:BA:1351:U:O2	2.71	0.44
1:BA:1381:U:C6	1:BA:1382:C:H5	2.36	0.44
1:BA:1428:A:C2	1:BA:1473:G:C2	3.06	0.44
1:BA:1458:G:H2'	1:BA:1459:G:C8	2.53	0.44
1:BA:247:G:C5	1:BA:278:G:C2	3.06	0.44
1:BA:338:A:O5'	1:BA:338:A:H8	2.00	0.44
1:BA:393:A:H5'	1:BA:483:C:O2'	2.17	0.44
1:BA:764:C:H2'	1:BA:765:G:C8	2.50	0.44
1:BA:878:A:OP1	8:BH:80:PRO:HD2	2.18	0.44
2:BB:205:ALA:O	2:BB:206:ILE:C	2.56	0.44
3:BC:79:LYS:N	3:BC:79:LYS:HD2	2.32	0.44
4:BD:7:LYS:HB2	4:BD:20:LEU:HD13	1.98	0.44
5:BE:22:LYS:O	5:BE:23:THR:CB	2.64	0.44
6:BF:62:MET:HG3	6:BF:64:VAL:HG23	2.00	0.44
9:BI:38:PHE:CE1	9:BI:75:ALA:HB2	2.52	0.44
9:BI:56:MET:HA	9:BI:59:LYS:CB	2.48	0.44
10:BJ:92:LEU:N	10:BJ:92:LEU:HD23	2.32	0.44
1:BA:1329:A:H4'	13:BM:23:GLY:O	2.17	0.44
17:BQ:16:MET:CB	17:BQ:19:SER:HB3	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BQ:10:ARG:CZ	17:BQ:55:GLY:HA2	2.47	0.44
17:BQ:77:VAL:C	17:BQ:78:VAL:CG2	2.86	0.44
20:BT:66:ILE:CG2	20:BT:67:HIS:H	2.31	0.44
21:BU:24:LYS:HD3	21:BU:25:ALA:H	1.83	0.44
25:CA:1269:A:O5'	25:CA:1269:A:H8	2.01	0.44
25:CA:1291:C:H2'	25:CA:1292:G:H5'	1.98	0.44
25:CA:1684:G:H2'	25:CA:1685:C:C6	2.53	0.44
25:CA:1737:G:C6	25:CA:1738:G:N2	2.86	0.44
25:CA:1818:U:OP2	27:CC:155:ARG:NH1	2.51	0.44
25:CA:2349:G:O6	25:CA:2350:C:C4	2.70	0.44
25:CA:2486:C:H2'	25:CA:2487:G:O4'	2.18	0.44
25:CA:2544:G:C2'	25:CA:2545:G:O5'	2.65	0.44
25:CA:2571:U:H2'	25:CA:2572:A:OP1	2.17	0.44
25:CA:2631:G:C2'	25:CA:2632:A:O5'	2.65	0.44
25:CA:272:A:H2'	25:CA:273:G:O4'	2.17	0.44
25:CA:2800:A:H3'	25:CA:2801:G:H5''	1.96	0.44
25:CA:2849:U:N3	25:CA:2867:G:O4'	2.51	0.44
25:CA:416:U:C5	25:CA:417:C:N4	2.85	0.44
25:CA:503:A:H5'	25:CA:504:A:H3'	1.99	0.44
25:CA:892:A:H2	25:CA:893:C:C2	2.36	0.44
26:CB:78:A:C2	26:CB:99:A:C4	3.05	0.44
28:CD:105:LYS:NZ	28:CD:105:LYS:HB3	2.33	0.44
29:CE:97:ASN:HB3	29:CE:100:MET:HG3	1.98	0.44
30:CF:42:ALA:HB1	30:CF:45:ASP:C	2.38	0.44
31:CG:97:VAL:O	31:CG:97:VAL:CG1	2.62	0.44
32:CH:18:GLN:O	32:CH:19:VAL:HG13	2.18	0.44
32:CH:46:PHE:CD2	32:CH:47:PHE:N	2.85	0.44
33:CI:29:GLN:HG2	33:CI:29:GLN:O	2.17	0.44
33:CI:34:ILE:HD13	33:CI:34:ILE:N	2.32	0.44
35:CK:113:MET:O	35:CK:116:ILE:N	2.50	0.44
35:CK:41:ILE:HD12	35:CK:41:ILE:C	2.38	0.44
36:CL:91:ASP:OD1	36:CL:92:LEU:HD12	2.18	0.44
37:CM:50:ARG:O	37:CM:51:ARG:C	2.56	0.44
37:CM:57:VAL:C	37:CM:58:LYS:HG2	2.38	0.44
39:CO:2:ASP:O	39:CO:4:LYS:N	2.51	0.44
40:CP:36:LYS:HE3	40:CP:38:ARG:NE	2.33	0.44
40:CP:30:TRP:CZ3	40:CP:39:LEU:CD1	3.00	0.44
40:CP:55:HIS:O	40:CP:56:SER:C	2.56	0.44
42:CR:76:LYS:O	42:CR:84:ARG:HA	2.17	0.44
51:D0:29:VAL:HG13	51:D0:34:GLY:C	2.38	0.44
54:D3:30:HIS:CE1	54:D3:31:ILE:CD1	3.01	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1005:C:C4	25:DA:1143:A:N3	2.86	0.44
25:DA:1080:A:C2	25:DA:1081:U:C2	3.06	0.44
25:DA:1330:C:H2'	25:DA:1331:G:O5'	2.17	0.44
25:DA:1358:G:O2'	25:DA:1359:A:H5'	2.17	0.44
25:DA:1441:G:C2	25:DA:1442:U:C5	3.05	0.44
25:DA:1477:A:C2	25:DA:1515:A:C2	3.05	0.44
25:DA:1670:C:C4	25:DA:1671:U:C2	3.05	0.44
25:DA:1967:C:O2	25:DA:1967:C:H2'	2.17	0.44
25:DA:2148:G:N3	25:DA:2149:U:C5	2.86	0.44
25:DA:442:G:O4'	29:DE:41:GLN:OE1	2.36	0.44
25:DA:463:G:N1	25:DA:467:G:C6	2.85	0.44
25:DA:528:A:H2'	25:DA:529:A:O5'	2.17	0.44
25:DA:59:U:O2'	25:DA:60:G:C5'	2.65	0.44
56:DB:72:G:N2	56:DB:103:U:C5	2.86	0.44
27:DC:144:GLU:CA	27:DC:151:GLY:HA2	2.43	0.44
27:DC:184:GLU:O	27:DC:187:CYS:SG	2.74	0.44
25:DA:773:U:H4'	27:DC:46:GLY:HA3	1.99	0.44
29:DE:182:ALA:HB2	36:DL:3:LEU:HD22	2.00	0.44
29:DE:21:ARG:O	29:DE:22:ASP:C	2.56	0.44
30:DF:7:TYR:O	30:DF:11:VAL:HB	2.18	0.44
31:DG:43:LYS:HE2	31:DG:43:LYS:N	2.32	0.44
31:DG:75:VAL:O	31:DG:76:ILE:C	2.56	0.44
32:DH:59:ALA:O	32:DH:62:LEU:CG	2.66	0.44
37:DM:20:LEU:N	37:DM:20:LEU:CD2	2.80	0.44
38:DN:28:LEU:O	38:DN:28:LEU:HD12	2.18	0.44
38:DN:83:LEU:HD21	38:DN:115:LEU:HD13	2.00	0.44
39:DO:67:ASN:O	39:DO:69:ASP:N	2.50	0.44
43:DS:29:VAL:CG1	43:DS:55:ILE:HD11	2.48	0.44
44:DT:17:SER:O	44:DT:18:GLU:C	2.56	0.44
45:DU:40:LEU:HD21	45:DU:61:GLU:HG3	1.99	0.44
1:AA:1212:U:O2	1:AA:1212:U:H2'	2.18	0.44
1:AA:135:C:O2	16:AP:1:MET:N	2.34	0.44
1:AA:190:A:C8	1:AA:190:A:H3'	2.53	0.44
1:AA:197:A:O2'	1:AA:221:C:H1'	2.18	0.44
1:AA:229:U:O2'	1:AA:230:G:H5'	2.17	0.44
1:AA:469:C:O5'	1:AA:469:C:H6	2.00	0.44
1:AA:510:A:N7	60:AA:1723:HOH:O	2.37	0.44
1:AA:569:C:H5''	1:AA:570:G:OP1	2.17	0.44
1:AA:836:G:C5	1:AA:851:G:C6	3.06	0.44
2:AB:95:TRP:CH2	2:AB:174:GLU:CD	2.91	0.44
3:AC:142:ARG:HH11	3:AC:142:ARG:HG3	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:21:MET:HE2	6:AF:21:MET:HB3	1.79	0.44
7:AG:46:LEU:HD12	7:AG:46:LEU:HA	1.85	0.44
9:AI:117:LEU:N	9:AI:117:LEU:HD12	2.33	0.44
1:AA:966:G:O2'	9:AI:128:LYS:O	2.36	0.44
9:AI:24:ASN:O	9:AI:60:LEU:N	2.50	0.44
13:AM:48:SER:O	13:AM:49:GLU:C	2.55	0.44
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.18	0.44
17:AQ:13:SER:HB3	17:AQ:16:MET:HE2	2.00	0.44
17:AQ:54:ILE:C	17:AQ:54:ILE:CD1	2.86	0.44
1:AA:1313:U:P	19:AS:5:LYS:HB2	2.58	0.44
19:AS:35:ARG:NH2	19:AS:76:THR:HG23	2.32	0.44
21:AU:16:ARG:HH11	21:AU:19:LYS:HG2	1.83	0.44
1:BA:1144:G:H3'	1:BA:1145:A:O4'	2.17	0.44
1:BA:1149:C:N4	1:BA:1150:A:C6	2.86	0.44
1:BA:1330:U:OP1	13:BM:24:VAL:O	2.35	0.44
1:BA:1399:C:H4'	1:BA:1400:C:O5'	2.17	0.44
1:BA:321:A:H2	1:BA:333:U:O2	2.00	0.44
1:BA:615:G:C2	1:BA:616:G:C8	3.06	0.44
1:BA:639:G:C4	1:BA:640:A:C8	3.06	0.44
1:BA:724:G:N2	1:BA:725:G:H1'	2.33	0.44
2:BB:134:LEU:HD11	2:BB:138:ARG:HB3	1.99	0.44
3:BC:61:LYS:HA	3:BC:61:LYS:HE3	2.00	0.44
4:BD:7:LYS:NZ	4:BD:21:LYS:HD2	2.33	0.44
5:BE:158:LYS:CG	5:BE:158:LYS:O	2.65	0.44
5:BE:45:VAL:O	5:BE:70:MET:HG3	2.17	0.44
5:BE:64:GLU:OE2	5:BE:68:ARG:NH1	2.51	0.44
6:BF:49:TYR:HB2	6:BF:50:PRO:HD3	1.98	0.44
7:BG:78:ARG:CG	7:BG:83:THR:HG23	2.48	0.44
9:BI:118:ARG:O	9:BI:118:ARG:HG2	2.18	0.44
12:BL:49:ARG:CB	12:BL:89:LEU:HD11	2.48	0.44
13:BM:24:VAL:HG22	13:BM:25:GLY:N	2.32	0.44
13:BM:32:ILE:HG23	13:BM:58:GLU:HB3	1.99	0.44
15:BO:55:LEU:O	15:BO:59:VAL:HG23	2.18	0.44
16:BP:79:ASN:ND2	16:BP:82:ALA:CB	2.81	0.44
16:BP:80:LYS:HB2	16:BP:80:LYS:HZ3	1.82	0.44
7:BG:80:GLY:CA	23:BX:11:U:H5''	2.48	0.44
25:CA:1063:G:H4'	33:CI:76:ALA:HB3	2.00	0.44
25:CA:1091:G:HO2'	25:CA:1092:C:H5	1.64	0.44
25:CA:1310:G:H1'	25:CA:1611:C:H5'	1.99	0.44
25:CA:1439:A:N7	25:CA:1552:A:H2	2.15	0.44
25:CA:1606:C:H6	25:CA:1606:C:H3'	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1726:C:C2'	25:CA:1727:C:H5'	2.48	0.44
25:CA:2008:C:H2'	25:CA:2009:A:O5'	2.18	0.44
25:CA:2247:A:H2'	25:CA:2248:C:C6	2.52	0.44
25:CA:2298:A:C6	25:CA:2321:U:C4	3.06	0.44
25:CA:2403:C:C2'	25:CA:2404:U:H5'	2.48	0.44
25:CA:306:U:O4	25:CA:307:G:C6	2.70	0.44
25:CA:643:A:H2'	25:CA:644:A:C8	2.53	0.44
26:CB:102:G:H2'	26:CB:103:U:C5'	2.48	0.44
27:CC:74:PRO:O	27:CC:75:ALA:HB2	2.18	0.44
29:CE:27:LEU:CD1	29:CE:100:MET:CE	2.96	0.44
30:CF:7:TYR:CA	30:CF:11:VAL:HG23	2.48	0.44
25:CA:2311:A:C8	30:CF:76:PHE:CD2	3.06	0.44
30:CF:79:ARG:HG2	30:CF:80:GLN:H	1.83	0.44
30:CF:93:GLU:O	30:CF:94:ARG:C	2.56	0.44
32:CH:128:HIS:O	32:CH:144:VAL:HG23	2.18	0.44
32:CH:25:TYR:HE1	32:CH:29:PHE:CD2	2.35	0.44
33:CI:10:LEU:O	33:CI:23:VAL:HG11	2.18	0.44
35:CK:105:ARG:O	35:CK:106:GLU:C	2.57	0.44
37:CM:111:GLU:OE1	37:CM:112:LEU:HA	2.17	0.44
39:CO:102:ARG:O	39:CO:105:ALA:HB3	2.17	0.44
45:CU:5:ARG:C	45:CU:6:ARG:O	2.54	0.44
46:CV:40:ILE:HG22	46:CV:42:LEU:HD23	2.00	0.44
50:CZ:53:MET:C	50:CZ:54:VAL:HG13	2.37	0.44
25:DA:1178:C:C5'	25:DA:1179:G:OP1	2.66	0.44
25:DA:1221:C:C4	25:DA:1222:U:C5	3.06	0.44
25:DA:1354:A:H5''	25:DA:1355:G:OP2	2.17	0.44
25:DA:1512:C:O5'	25:DA:1512:C:H6	2.00	0.44
25:DA:1717:A:H2'	25:DA:1718:G:C5'	2.48	0.44
25:DA:1731:G:C6	25:DA:1733:G:C5	3.05	0.44
25:DA:1741:C:H2'	25:DA:1742:U:H6	1.82	0.44
25:DA:1870:C:H3'	25:DA:1871:A:H5'	2.00	0.44
25:DA:1878:G:C2'	25:DA:1879:C:H5'	2.48	0.44
25:DA:2029:G:H2'	25:DA:2031:A:OP1	2.18	0.44
25:DA:2179:C:H2'	25:DA:2180:U:H6	1.82	0.44
25:DA:945:A:C4	25:DA:2448:A:C2	3.06	0.44
25:DA:2854:G:C2'	25:DA:2855:C:O5'	2.66	0.44
25:DA:78:U:OP2	49:DY:2:LYS:HD2	2.18	0.44
25:DA:901:C:C4	25:DA:902:C:C2	3.05	0.44
27:DC:110:LYS:O	27:DC:113:ASP:OD2	2.36	0.44
27:DC:136:VAL:HG22	27:DC:166:ARG:CB	2.47	0.44
27:DC:252:LYS:O	27:DC:253:GLY:O	2.35	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:151:GLY:O	29:DE:195:GLN:NE2	2.51	0.44
30:DF:101:ARG:HA	30:DF:105:ILE:HG23	1.99	0.44
30:DF:104:THR:O	30:DF:108:PRO:CG	2.63	0.44
30:DF:99:PHE:O	30:DF:103:ILE:HG12	2.18	0.44
31:DG:95:ALA:HB2	31:DG:104:LEU:HD23	2.00	0.44
31:DG:130:ILE:HG22	31:DG:131:VAL:N	2.33	0.44
31:DG:142:GLN:O	31:DG:143:VAL:C	2.56	0.44
31:DG:39:ALA:CB	31:DG:57:TYR:HB3	2.47	0.44
32:DH:102:ALA:O	32:DH:106:ALA:HB2	2.17	0.44
33:DI:27:LEU:HD11	33:DI:34:ILE:CD1	2.48	0.44
25:DA:636:G:H3'	36:DL:128:THR:HG21	1.99	0.44
37:DM:33:LEU:HD22	37:DM:117:PHE:HB3	2.00	0.44
38:DN:8:ARG:HE	38:DN:43:GLU:CG	2.31	0.44
39:DO:53:THR:HG22	39:DO:74:VAL:HG21	2.00	0.44
44:DT:2:ILE:HA	44:DT:3:ARG:CB	2.46	0.44
46:DV:48:MET:HA	46:DV:86:LEU:HD11	1.99	0.44
1:AA:1004:A:C5	1:AA:1026:G:C8	3.06	0.44
1:AA:1076:U:C2	1:AA:1082:A:C2	3.06	0.44
1:AA:1135:U:OP2	1:AA:1135:U:H6	2.01	0.44
1:AA:1310:G:N2	1:AA:1328:C:C2	2.86	0.44
1:AA:316:C:C2	1:AA:317:U:C5	3.06	0.44
1:AA:663:A:C2'	1:AA:664:G:H5'	2.48	0.44
2:AB:147:LEU:HD23	2:AB:147:LEU:HA	1.89	0.44
2:AB:164:ASP:O	2:AB:168:GLU:HG2	2.17	0.44
2:AB:20:ARG:HD3	2:AB:20:ARG:HA	1.79	0.44
2:AB:47:PRO:HA	2:AB:50:ASN:ND2	2.33	0.44
5:AE:135:VAL:HG22	5:AE:136:VAL:N	2.32	0.44
9:AI:6:TYR:CE2	9:AI:17:ARG:CB	3.01	0.44
10:AJ:42:LEU:HA	10:AJ:43:PRO:HD2	1.85	0.44
1:AA:568:G:O6	12:AL:1:ALA:HB2	2.18	0.44
12:AL:42:LYS:O	12:AL:44:PRO:N	2.50	0.44
13:AM:106:ARG:HH21	13:AM:112:ARG:HB3	1.82	0.44
14:AN:15:LEU:C	14:AN:17:ASP:N	2.71	0.44
15:AO:55:LEU:O	15:AO:58:MET:HB2	2.18	0.44
17:AQ:69:THR:CG2	17:AQ:69:THR:O	2.66	0.44
1:AA:663:A:H5''	18:AR:49:LYS:HD2	2.00	0.44
19:AS:43:MET:O	19:AS:46:LEU:HG	2.18	0.44
20:AT:34:VAL:HG12	20:AT:38:ILE:HD11	1.99	0.44
21:AU:32:ARG:NH1	21:AU:32:ARG:HG2	2.32	0.44
21:AU:3:ILE:HD13	21:AU:3:ILE:N	2.33	0.44
1:BA:1097:C:OP1	2:BB:138:ARG:NH2	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1157:A:N6	1:BA:1180:A:C5	2.85	0.44
1:BA:1262:C:H3'	1:BA:1263:C:H6	1.83	0.44
1:BA:1426:G:H2'	1:BA:1427:C:C6	2.53	0.44
1:BA:145:G:N2	1:BA:178:C:N3	2.66	0.44
1:BA:1526:G:H2'	1:BA:1527:U:C6	2.53	0.44
1:BA:425:G:H2'	1:BA:426:U:O4'	2.18	0.44
1:BA:459:A:C4	1:BA:460:A:C8	3.06	0.44
1:BA:550:G:H2'	1:BA:551:U:C6	2.53	0.44
1:BA:567:G:H2'	1:BA:568:G:O5'	2.18	0.44
1:BA:57:G:C5	1:BA:58:C:C4	3.06	0.44
1:BA:831:A:C2'	1:BA:832:G:O5'	2.66	0.44
1:BA:861:G:H2'	1:BA:862:C:H6	1.82	0.44
1:BA:864:A:C6	1:BA:865:A:C2	3.06	0.44
1:BA:72:A:N1	1:BA:99:C:H4'	2.33	0.44
2:BB:174:GLU:O	2:BB:178:LEU:HD23	2.18	0.44
3:BC:113:LYS:HD2	3:BC:113:LYS:O	2.17	0.44
3:BC:152:VAL:CG2	3:BC:156:LEU:HD21	2.47	0.44
3:BC:156:LEU:O	3:BC:159:ALA:HB2	2.17	0.44
4:BD:133:SER:O	4:BD:134:TYR:C	2.57	0.44
9:BI:20:ILE:HG22	9:BI:20:ILE:O	2.17	0.44
11:BK:24:ALA:HA	11:BK:29:THR:CG2	2.46	0.44
11:BK:39:ASN:O	11:BK:40:ALA:HB3	2.17	0.44
14:BN:9:GLU:O	14:BN:12:ARG:N	2.51	0.44
15:BO:16:ARG:HD3	15:BO:16:ARG:H	1.83	0.44
15:BO:22:GLY:O	15:BO:23:SER:C	2.54	0.44
18:BR:31:TYR:O	18:BR:39:VAL:CB	2.65	0.44
19:BS:14:LEU:O	19:BS:14:LEU:HD12	2.17	0.44
20:BT:29:THR:O	20:BT:32:LYS:N	2.51	0.44
20:BT:35:TYR:CE2	20:BT:36:ALA:CA	3.01	0.44
20:BT:60:GLN:O	20:BT:63:LYS:N	2.51	0.44
25:CA:2016:U:H1'	51:C0:2:VAL:HG21	1.99	0.44
52:C1:21:THR:HG23	54:C3:33:THR:HG23	2.00	0.44
55:C4:30:GLU:O	55:C4:33:HIS:N	2.51	0.44
25:CA:1060:U:OP2	33:CI:75:ALA:N	2.50	0.44
25:CA:1078:U:H1'	25:CA:1088:A:H2	1.83	0.44
25:CA:1082:U:H6	25:CA:1082:U:H3'	1.83	0.44
25:CA:1365:A:H2'	25:CA:1365:A:N3	2.33	0.44
25:CA:137:U:HO2'	25:CA:138:U:P	2.39	0.44
25:CA:1461:C:C2'	25:CA:1462:C:O5'	2.65	0.44
25:CA:1519:G:C6	25:CA:1520:U:C4	3.06	0.44
25:CA:1744:A:H5''	25:CA:1745:A:OP2	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2585:U:O2'	25:CA:2586:U:C5'	2.66	0.44
25:CA:2822:G:H8	25:CA:2822:G:O5'	2.01	0.44
25:CA:327:G:H2'	25:CA:328:U:O4'	2.18	0.44
25:CA:974:G:C2'	25:CA:974:G:N3	2.81	0.44
26:CB:17:C:H2'	26:CB:18:G:O5'	2.17	0.44
27:CC:83:ASP:OD1	27:CC:85:ASN:N	2.51	0.44
30:CF:7:TYR:CD2	30:CF:11:VAL:HB	2.53	0.44
30:CF:109:ARG:HH12	30:CF:138:PRO:HA	1.83	0.44
46:CV:20:LEU:O	46:CV:23:ALA:N	2.51	0.44
46:CV:80:HIS:CE1	46:CV:83:LYS:CE	3.01	0.44
52:D1:8:ILE:HG21	52:D1:24:LYS:HD2	2.00	0.44
52:D1:8:ILE:CG1	52:D1:22:THR:HG23	2.48	0.44
25:DA:2419:U:H3'	54:D3:32:LEU:HD12	2.00	0.44
54:D3:9:ALA:HB3	54:D3:61:LEU:HD21	2.00	0.44
25:DA:1002:G:H2'	25:DA:1003:G:O5'	2.18	0.44
25:DA:1104:C:N4	25:DA:1105:U:O4	2.51	0.44
25:DA:122:G:O2'	25:DA:123:G:H5'	2.17	0.44
25:DA:1356:G:C4	25:DA:1357:C:C5	3.06	0.44
25:DA:1477:A:C2	25:DA:1515:A:C6	3.06	0.44
25:DA:1589:U:O2	25:DA:1589:U:H2'	2.18	0.44
25:DA:1963:U:H3'	25:DA:1963:U:C6	2.53	0.44
25:DA:2093:G:C6	25:DA:2225:A:N7	2.86	0.44
25:DA:2365:G:N7	54:D3:38:LYS:NZ	2.64	0.44
25:DA:2391:G:H1'	25:DA:2424:C:N4	2.33	0.44
25:DA:2657:A:H2'	25:DA:2657:A:N3	2.33	0.44
25:DA:289:G:C6	25:DA:290:U:N3	2.86	0.44
25:DA:521:U:H2'	25:DA:522:A:C8	2.53	0.44
29:DE:132:LYS:O	29:DE:135:ALA:HB3	2.17	0.44
29:DE:48:THR:C	29:DE:50:ALA:N	2.71	0.44
31:DG:10:VAL:HG23	31:DG:14:VAL:CB	2.48	0.44
31:DG:145:ALA:O	31:DG:146:ASP:C	2.56	0.44
31:DG:84:LYS:HB2	31:DG:132:LEU:CD1	2.48	0.44
32:DH:104:THR:HG22	32:DH:110:VAL:H	1.83	0.44
33:DI:11:GLN:NE2	33:DI:54:ILE:H	2.16	0.44
34:DJ:119:PHE:HD1	34:DJ:119:PHE:C	2.20	0.44
34:DJ:55:ILE:HA	34:DJ:123:LYS:O	2.18	0.44
25:DA:258:G:H1'	36:DL:104:GLN:HE21	1.83	0.44
36:DL:127:VAL:CG1	36:DL:131:ALA:HB1	2.47	0.44
38:DN:55:ALA:CB	38:DN:79:LEU:HB2	2.48	0.44
39:DO:29:HIS:CD2	39:DO:30:ARG:N	2.86	0.44
41:DQ:79:ILE:HA	41:DQ:79:ILE:HD13	1.73	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DU:71:ILE:CD1	45:DU:82:VAL:CG2	2.96	0.44
57:DW:64:LYS:CE	57:DW:66:GLU:OE1	2.66	0.44
1:AA:1124:G:C3'	1:AA:1145:A:N6	2.69	0.43
1:AA:1144:G:C5'	1:AA:1145:A:OP2	2.66	0.43
1:AA:1211:U:H2'	1:AA:1212:U:OP2	2.17	0.43
1:AA:243:A:H4'	1:AA:244:U:H5''	1.99	0.43
1:AA:412:A:H4'	1:AA:412:A:OP1	2.18	0.43
1:AA:669:G:O2'	1:AA:670:G:H5'	2.18	0.43
2:AB:73:ARG:O	2:AB:74:ALA:CB	2.65	0.43
5:AE:93:VAL:CG2	5:AE:110:MET:CE	2.96	0.43
5:AE:93:VAL:CG2	5:AE:110:MET:SD	3.06	0.43
5:AE:35:LEU:HD22	5:AE:133:ILE:HA	1.99	0.43
5:AE:33:THR:HB	5:AE:49:TYR:CZ	2.53	0.43
6:AF:39:LEU:CD1	6:AF:40:GLU:N	2.81	0.43
7:AG:111:GLY:O	7:AG:112:ASP:O	2.35	0.43
7:AG:25:PHE:O	7:AG:27:ASN:N	2.51	0.43
8:AH:46:GLU:CA	8:AH:63:LYS:CG	2.96	0.43
8:AH:9:MET:HE1	8:AH:32:LYS:CA	2.43	0.43
1:AA:1116:U:O2'	9:AI:109:GLN:HG3	2.18	0.43
9:AI:113:LYS:HD3	9:AI:114:LYS:N	2.33	0.43
9:AI:117:LEU:HD23	9:AI:121:ARG:C	2.38	0.43
9:AI:122:ARG:NH1	9:AI:123:ARG:O	2.51	0.43
9:AI:30:ASN:O	9:AI:32:ARG:HB2	2.18	0.43
11:AK:110:THR:HG23	21:AU:4:LYS:HA	2.00	0.43
11:AK:41:LEU:HB2	11:AK:73:VAL:CG1	2.48	0.43
12:AL:113:ARG:O	12:AL:115:LYS:O	2.36	0.43
12:AL:74:GLN:O	12:AL:75:GLU:C	2.55	0.43
13:AM:21:ILE:CG2	13:AM:22:TYR:O	2.65	0.43
14:AN:64:CYS:HB2	14:AN:80:SER:HB2	2.00	0.43
15:AO:52:ARG:O	15:AO:55:LEU:HB3	2.18	0.43
15:AO:69:LEU:O	15:AO:70:LYS:C	2.54	0.43
17:AQ:54:ILE:HG23	17:AQ:54:ILE:O	2.18	0.43
20:AT:78:LEU:O	20:AT:81:GLN:HB2	2.17	0.43
21:AU:18:PHE:O	21:AU:21:SER:N	2.51	0.43
11:AK:109:ILE:HB	21:AU:5:VAL:HG22	2.00	0.43
24:AY:141:LYS:O	24:AY:145:LYS:HE3	2.18	0.43
24:AY:146:ASP:O	24:AY:147:LYS:C	2.56	0.43
1:BA:1036:A:H3'	1:BA:1037:C:C6	2.53	0.43
1:BA:1049:U:H5	1:BA:1203:C:OP1	2.00	0.43
1:BA:1092:A:C6	1:BA:1093:A:C5	3.06	0.43
1:BA:1114:C:C2	1:BA:1115:U:C6	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1144:G:C3'	1:BA:1145:A:O4'	2.66	0.43
1:BA:1170:A:H2'	1:BA:1171:A:O5'	2.17	0.43
1:BA:1265:C:N3	1:BA:1271:A:N1	2.65	0.43
1:BA:1323:G:O4'	1:BA:1362:A:C2	2.71	0.43
1:BA:1349:A:C2	1:BA:1350:A:H1'	2.54	0.43
1:BA:375:U:N3	1:BA:376:G:C8	2.86	0.43
1:BA:49:U:O2	1:BA:362:G:C1'	2.66	0.43
1:BA:558:G:H5''	1:BA:559:A:H3'	2.00	0.43
1:BA:625:U:O2'	1:BA:626:G:H5'	2.17	0.43
1:BA:852:G:C6	1:BA:853:C:C5	3.06	0.43
1:BA:864:A:C6	1:BA:865:A:N1	2.85	0.43
1:BA:976:G:C2	1:BA:1363:A:C2	3.06	0.43
1:BA:977:A:H1'	1:BA:982:U:O4	2.17	0.43
2:BB:49:PHE:CA	2:BB:52:ALA:HB3	2.48	0.43
3:BC:99:GLN:C	3:BC:100:ILE:HG22	2.37	0.43
3:BC:10:ARG:HH21	3:BC:181:ILE:CG1	2.31	0.43
4:BD:137:SER:CB	4:BD:138:PRO:HD2	2.47	0.43
4:BD:167:PRO:HG2	4:BD:170:LEU:CD1	2.47	0.43
4:BD:75:TYR:CE2	4:BD:203:TYR:HB2	2.52	0.43
5:BE:111:ARG:O	5:BE:112:ALA:C	2.57	0.43
6:BF:86:ARG:HG3	6:BF:86:ARG:HH11	1.81	0.43
1:BA:824:G:H1'	8:BH:1:SER:H2	1.82	0.43
10:BJ:67:ILE:CG1	14:BN:96:LEU:HA	2.47	0.43
13:BM:90:HIS:O	13:BM:91:ARG:C	2.57	0.43
15:BO:35:ILE:HD12	15:BO:62:ARG:HH11	1.83	0.43
16:BP:6:LEU:HD23	16:BP:17:TYR:HB2	2.00	0.43
17:BQ:10:ARG:HA	17:BQ:57:VAL:HA	1.99	0.43
17:BQ:57:VAL:HG12	17:BQ:58:VAL:N	2.33	0.43
23:BX:4:A:H2'	23:BX:5:A:C8	2.53	0.43
53:C2:33:ARG:O	53:C2:36:ALA:HB3	2.18	0.43
25:CA:1071:G:N9	25:CA:1089:A:N7	2.66	0.43
25:CA:1179:G:C6	25:CA:1180:U:H1'	2.52	0.43
25:CA:1502:A:C4	25:CA:1503:A:C8	3.06	0.43
25:CA:1687:G:HO2'	25:CA:1688:U:H5'	1.81	0.43
25:CA:1689:A:C6	25:CA:1700:A:C2	3.06	0.43
25:CA:1772:A:OP1	60:CA:3459:HOH:O	2.21	0.43
25:CA:2107:G:C2	25:CA:2108:A:C8	3.05	0.43
25:CA:2218:G:C2'	25:CA:2219:U:H5'	2.48	0.43
25:CA:2259:U:C4	25:CA:2427:C:N4	2.86	0.43
25:CA:2547:A:C5'	35:CK:29:HIS:NE2	2.81	0.43
25:CA:2591:C:OP2	27:CC:236:GLY:O	2.35	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2592:G:O5'	25:CA:2592:G:H8	2.01	0.43
25:CA:2670:A:H2'	25:CA:2671:G:O5'	2.18	0.43
25:CA:2733:A:H2'	25:CA:2734:A:H8	1.83	0.43
25:CA:479:A:HO2'	25:CA:481:G:H8	1.65	0.43
25:CA:551:G:H2'	25:CA:552:U:C5'	2.48	0.43
25:CA:818:G:H2'	25:CA:819:A:OP2	2.18	0.43
25:CA:969:G:H2'	25:CA:970:U:C6	2.53	0.43
25:CA:974:G:H2'	25:CA:974:G:N3	2.32	0.43
27:CC:135:PRO:O	27:CC:136:VAL:C	2.57	0.43
29:CE:183:PHE:N	29:CE:183:PHE:CD1	2.85	0.43
30:CF:142:TYR:HA	30:CF:145:VAL:CG1	2.48	0.43
31:CG:25:ILE:O	31:CG:78:VAL:CG1	2.62	0.43
32:CH:119:ASN:N	32:CH:120:GLY:HA3	2.31	0.43
32:CH:2:GLN:O	32:CH:3:VAL:HG13	2.18	0.43
25:CA:1062:G:H21	33:CI:134:SER:HB3	1.83	0.43
33:CI:57:VAL:H	33:CI:71:LYS:HE2	1.83	0.43
33:CI:92:PRO:HB3	33:CI:135:MET:O	2.18	0.43
33:CI:96:LYS:HG3	33:CI:138:VAL:CG2	2.42	0.43
34:CJ:58:ASN:HD21	34:CJ:128:ASN:HB2	1.82	0.43
40:CP:30:TRP:CZ2	40:CP:39:LEU:HD11	2.52	0.43
40:CP:60:VAL:HG12	40:CP:61:ARG:N	2.33	0.43
25:DA:1051:G:OP2	25:DA:1051:G:H8	2.01	0.43
25:DA:1366:A:C2	25:DA:1367:A:H1'	2.52	0.43
25:DA:1403:A:C6	25:DA:1404:C:C4	3.06	0.43
25:DA:1429:G:H2'	25:DA:1430:G:C8	2.53	0.43
25:DA:1441:G:N3	25:DA:1442:U:C5	2.86	0.43
25:DA:1428:C:N4	25:DA:1570:A:OP2	2.47	0.43
25:DA:1598:A:C6	25:DA:1599:U:N3	2.86	0.43
25:DA:1731:G:C2'	25:DA:1732:C:O5'	2.65	0.43
25:DA:1795:C:C4	25:DA:1796:U:C5	3.06	0.43
25:DA:1868:C:H2'	25:DA:1869:G:O4'	2.18	0.43
25:DA:1667:G:O2'	25:DA:1991:U:O4	2.19	0.43
25:DA:2333:A:O4'	25:DA:2335:A:H1'	2.18	0.43
25:DA:2678:C:O2'	25:DA:2679:A:H5'	2.18	0.43
25:DA:279:A:C5	25:DA:280:U:C6	3.06	0.43
25:DA:2838:G:C2'	25:DA:2839:G:H5'	2.48	0.43
25:DA:39:G:H2'	25:DA:39:G:N3	2.33	0.43
25:DA:60:G:P	25:DA:60:G:H3'	2.58	0.43
56:DB:116:G:O2'	56:DB:117:G:H5'	2.18	0.43
29:DE:178:VAL:HG12	29:DE:179:SER:N	2.32	0.43
25:DA:659:G:O5'	29:DE:95:LYS:CD	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DF:57:ALA:HB1	30:DF:62:GLN:O	2.18	0.43
31:DG:5:LYS:O	31:DG:6:ALA:CB	2.63	0.43
32:DH:135:HIS:CD2	32:DH:137:GLU:H	2.35	0.43
32:DH:8:LYS:O	32:DH:9:VAL:HB	2.17	0.43
25:DA:1070:A:N6	33:DI:10:LEU:HB3	2.32	0.43
33:DI:17:ALA:CB	33:DI:41:PHE:CE2	3.00	0.43
33:DI:79:LEU:HD23	33:DI:83:ALA:CB	2.48	0.43
34:DJ:9:GLU:O	34:DJ:10:THR:HG22	2.18	0.43
36:DL:91:ASP:HB3	36:DL:94:THR:CG2	2.48	0.43
38:DN:43:GLU:O	38:DN:44:LEU:C	2.56	0.43
40:DP:100:ARG:O	40:DP:101:GLU:HG2	2.17	0.43
40:DP:32:VAL:C	40:DP:34:GLY:N	2.70	0.43
42:DR:47:VAL:CG1	42:DR:54:VAL:CG2	2.96	0.43
43:DS:84:ARG:HB3	43:DS:96:ILE:HD11	2.00	0.43
45:DU:85:ARG:O	45:DU:92:VAL:HG22	2.16	0.43
48:DX:53:LYS:O	48:DX:54:GLY:C	2.57	0.43
49:DY:8:GLU:HB3	49:DY:13:GLU:HG3	2.00	0.43
1:AA:1032:G:N2	1:AA:1033:G:C8	2.86	0.43
1:AA:1029:U:O2	1:AA:1033:G:C4	2.71	0.43
1:AA:1033:G:N1	1:AA:1034:G:C8	2.86	0.43
1:AA:1357:A:C5	1:AA:1358:U:C5	3.06	0.43
1:AA:1426:G:H2'	1:AA:1427:C:O5'	2.18	0.43
1:AA:155:A:H2'	1:AA:156:C:C6	2.54	0.43
1:AA:194:C:O2'	1:AA:195:A:H5'	2.18	0.43
1:AA:290:C:C6	1:AA:290:C:H3'	2.53	0.43
1:AA:460:A:H5''	1:AA:461:A:OP2	2.18	0.43
1:AA:654:G:C6	1:AA:753:A:C8	3.06	0.43
1:AA:763:G:C4	1:AA:764:C:C5	3.06	0.43
2:AB:181:PRO:O	2:AB:182:VAL:C	2.56	0.43
4:AD:198:LEU:C	4:AD:200:VAL:H	2.20	0.43
5:AE:114:LEU:HD12	5:AE:114:LEU:HA	1.74	0.43
6:AF:4:TYR:CE2	6:AF:71:ILE:HG21	2.53	0.43
10:AJ:35:GLN:OE1	10:AJ:78:GLU:CB	2.66	0.43
10:AJ:49:PHE:CD2	14:AN:77:PHE:CE1	3.06	0.43
11:AK:113:THR:HA	11:AK:114:PRO:HD3	1.86	0.43
13:AM:18:LEU:O	13:AM:24:VAL:HG21	2.18	0.43
13:AM:59:VAL:C	13:AM:61:LYS:H	2.21	0.43
14:AN:64:CYS:CB	14:AN:80:SER:H	2.31	0.43
1:AA:1203:C:H4'	14:AN:67:THR:HG22	2.00	0.43
10:AJ:49:PHE:CE2	14:AN:77:PHE:CZ	3.05	0.43
19:AS:46:LEU:O	19:AS:61:VAL:HG23	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:18:PHE:O	21:AU:18:PHE:HD2	2.00	0.43
1:BA:1014:A:C5	1:BA:1015:G:C6	3.06	0.43
1:BA:1064:G:N2	1:BA:1190:G:HI'	2.33	0.43
1:BA:1090:U:N3	1:BA:1091:U:C4	2.85	0.43
1:BA:110:C:N4	1:BA:111:G:N1	2.66	0.43
1:BA:1125:U:C2	1:BA:1127:G:C8	3.06	0.43
1:BA:1161:C:N3	1:BA:1175:G:O6	2.51	0.43
1:BA:253:A:C2	1:BA:254:G:C5	3.06	0.43
1:BA:273:U:C4	1:BA:274:A:N7	2.86	0.43
1:BA:505:G:C6	1:BA:535:A:C2	3.06	0.43
1:BA:538:G:H5''	12:BL:110:LYS:HB2	1.99	0.43
1:BA:557:G:H3'	1:BA:558:G:H8	1.83	0.43
1:BA:560:A:C6	1:BA:566:G:O4'	2.71	0.43
1:BA:621:A:H2'	1:BA:622:A:C8	2.52	0.43
1:BA:933:G:C4	1:BA:935:A:C8	3.06	0.43
8:BH:58:LEU:C	8:BH:58:LEU:CD1	2.86	0.43
1:BA:135:C:N3	16:BP:1:MET:HB2	2.32	0.43
17:BQ:30:HIS:HA	17:BQ:31:PRO:HD3	1.87	0.43
1:BA:108:G:C5	20:BT:9:ARG:HG2	2.53	0.43
25:CA:1239:G:H2'	25:CA:1240:U:O4'	2.18	0.43
25:CA:1351:C:H2'	25:CA:1352:U:O4'	2.18	0.43
25:CA:1881:C:H2'	25:CA:1882:U:O4'	2.18	0.43
25:CA:2146:C:H4'	25:CA:2147:A:N7	2.33	0.43
25:CA:2152:G:C6	25:CA:2153:C:N3	2.85	0.43
25:CA:2193:G:C6	25:CA:2194:U:C5	3.06	0.43
25:CA:2238:G:N3	25:CA:2238:G:H2'	2.32	0.43
25:CA:2531:A:C2	25:CA:2532:G:N9	2.86	0.43
25:CA:2681:C:C2	25:CA:2724:U:O4	2.71	0.43
25:CA:277:G:H8	25:CA:361:G:O6	2.00	0.43
25:CA:528:A:C2	25:CA:2043:C:O5'	2.71	0.43
27:CC:121:ALA:O	27:CC:122:ALA:O	2.37	0.43
27:CC:1:ALA:HB3	27:CC:19:VAL:O	2.18	0.43
29:CE:10:SER:O	29:CE:11:ALA:C	2.55	0.43
25:CA:2305:U:O2'	30:CF:132:ARG:CZ	2.67	0.43
30:CF:39:VAL:O	30:CF:41:GLU:N	2.51	0.43
31:CG:136:ASP:O	31:CG:137:LYS:C	2.57	0.43
33:CI:28:GLY:O	33:CI:34:ILE:CD1	2.66	0.43
35:CK:75:SER:O	35:CK:76:VAL:HG23	2.18	0.43
36:CL:109:LYS:HE2	36:CL:128:THR:CG2	2.45	0.43
38:CN:23:ASN:O	38:CN:26:GLY:N	2.52	0.43
39:CO:19:GLN:C	39:CO:21:LEU:H	2.20	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CO:24:THR:HG22	39:CO:42:PRO:CG	2.47	0.43
39:CO:66:GLY:HA2	39:CO:102:ARG:HH22	1.83	0.43
43:CS:43:ALA:O	43:CS:47:VAL:CG1	2.57	0.43
43:CS:85:ILE:CG2	43:CS:86:MET:N	2.81	0.43
25:CA:142:A:C2	44:CT:1:MET:HE3	2.53	0.43
48:CX:57:VAL:HG12	48:CX:58:ILE:N	2.32	0.43
25:CA:72:U:H1'	49:CY:51:ALA:CB	2.48	0.43
50:CZ:9:THR:HG22	50:CZ:10:ARG:CG	2.48	0.43
52:D1:8:ILE:HG12	52:D1:22:THR:HG23	1.99	0.43
25:DA:1248:G:OP1	29:DE:44:ARG:NH1	2.52	0.43
25:DA:1268:A:C2'	25:DA:1269:A:O5'	2.67	0.43
25:DA:1408:G:H2'	25:DA:1409:U:C6	2.53	0.43
25:DA:1414:C:N3	25:DA:1415:U:C5	2.87	0.43
25:DA:1773:A:C2'	25:DA:1774:C:H5'	2.48	0.43
25:DA:1936:A:H2	25:DA:1943:U:O4	2.00	0.43
25:DA:2047:C:N4	60:DA:3680:HOH:O	2.51	0.43
25:DA:2148:G:H2'	25:DA:2149:U:OP2	2.18	0.43
25:DA:2370:G:O6	25:DA:2371:G:C6	2.71	0.43
25:DA:2531:A:C5	25:DA:2532:G:C8	3.06	0.43
25:DA:2648:G:C4	25:DA:2649:C:C6	3.05	0.43
25:DA:2803:G:C4	25:DA:2804:U:C5	3.05	0.43
25:DA:2839:G:C2'	25:DA:2840:C:O5'	2.67	0.43
25:DA:282:A:N1	25:DA:283:G:C6	2.86	0.43
25:DA:357:C:N4	25:DA:358:U:O4	2.51	0.43
25:DA:54:G:C6	25:DA:55:G:N7	2.86	0.43
25:DA:822:G:H2'	25:DA:823:C:H6	1.83	0.43
25:DA:846:U:O2'	25:DA:847:U:P	2.77	0.43
27:DC:171:VAL:HG23	27:DC:173:LEU:HD13	2.00	0.43
27:DC:147:PRO:CD	27:DC:184:GLU:OE2	2.66	0.43
27:DC:35:LYS:NZ	27:DC:37:SER:HB3	2.33	0.43
30:DF:89:THR:O	30:DF:89:THR:HG22	2.18	0.43
32:DH:29:PHE:CD2	32:DH:30:LEU:HD23	2.53	0.43
33:DI:36:GLU:HB2	33:DI:66:PHE:HE2	1.83	0.43
25:DA:2562:U:P	35:DK:40:LYS:HD3	2.58	0.43
35:DK:92:GLU:CA	35:DK:92:GLU:OE2	2.65	0.43
25:DA:811:U:H2'	36:DL:21:ARG:HA	1.98	0.43
37:DM:136:MET:HE2	46:DV:57:TYR:CD2	2.53	0.43
37:DM:66:ARG:HH11	37:DM:66:ARG:CG	2.30	0.43
38:DN:32:GLU:CG	38:DN:115:LEU:HD12	2.48	0.43
38:DN:55:ALA:HB1	38:DN:80:PHE:N	2.33	0.43
39:DO:106:LEU:CD2	39:DO:106:LEU:O	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DR:49:ILE:CG2	42:DR:53:PHE:CA	2.96	0.43
42:DR:68:ARG:HB3	42:DR:90:ARG:HD3	1.99	0.43
44:DT:7:LEU:HD21	44:DT:46:ALA:CB	2.47	0.43
48:DX:48:LEU:O	48:DX:50:VAL:HG13	2.17	0.43
1:AA:1004:A:H2'	1:AA:1005:A:C5'	2.49	0.43
1:AA:1188:A:C2'	1:AA:1189:U:H5'	2.48	0.43
1:AA:1201:A:H4'	1:AA:1202:U:O5'	2.18	0.43
1:AA:285:C:C2	1:AA:286:C:C5	3.06	0.43
1:AA:525:C:N4	1:AA:526:C:N4	2.65	0.43
1:AA:771:G:H2'	1:AA:772:U:H5'	2.00	0.43
1:AA:944:G:O6	1:AA:1337:G:H3'	2.18	0.43
2:AB:180:ILE:HA	2:AB:181:PRO:HD3	1.69	0.43
2:AB:195:VAL:CG1	2:AB:197:PHE:O	2.66	0.43
2:AB:53:LEU:HD12	2:AB:216:VAL:HA	2.00	0.43
3:AC:21:TRP:CD1	3:AC:58:ARG:CD	3.01	0.43
4:AD:14:GLU:HA	4:AD:14:GLU:OE1	2.17	0.43
4:AD:152:SER:OG	4:AD:153:ARG:N	2.50	0.43
4:AD:168:THR:CB	4:AD:183:ARG:HH22	2.27	0.43
9:AI:83:THR:HG21	9:AI:102:PHE:CB	2.48	0.43
9:AI:129:ARG:HB3	9:AI:129:ARG:NH1	2.33	0.43
9:AI:56:MET:SD	9:AI:56:MET:N	2.91	0.43
10:AJ:65:TYR:HB3	14:AN:96:LEU:CD1	2.45	0.43
13:AM:3:ILE:O	13:AM:3:ILE:HG12	2.18	0.43
13:AM:74:MET:SD	30:CF:111:ARG:CD	3.06	0.43
14:AN:82:ILE:HG22	14:AN:83:LYS:N	2.33	0.43
19:AS:44:ILE:CD1	19:AS:63:ASP:HA	2.47	0.43
20:AT:34:VAL:O	20:AT:35:TYR:C	2.56	0.43
24:AY:106:LEU:HD13	24:AY:106:LEU:HA	1.76	0.43
1:BA:1236:A:H4'	1:BA:1304:G:H4'	1.99	0.43
1:BA:1291:U:C2	1:BA:1292:G:N7	2.85	0.43
1:BA:128:G:N1	1:BA:129:A:C6	2.87	0.43
1:BA:1360:A:N6	1:BA:1361:G:N2	2.66	0.43
1:BA:1422:G:C2	1:BA:1423:G:C4	3.06	0.43
1:BA:1423:G:C4	1:BA:1424:U:C6	3.06	0.43
1:BA:1538:C:H3'	1:BA:1538:C:H6	1.83	0.43
1:BA:318:G:C6	1:BA:319:G:C5	3.07	0.43
1:BA:390:U:H2'	1:BA:391:G:C8	2.53	0.43
1:BA:303:A:O2'	1:BA:555:U:H4'	2.18	0.43
2:BB:180:ILE:HG22	2:BB:181:PRO:N	2.33	0.43
2:BB:19:THR:O	2:BB:20:ARG:CZ	2.67	0.43
2:BB:78:ALA:O	2:BB:81:ASP:OD2	2.35	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:57:GLU:OE1	10:BJ:94:ALA:HB1	2.18	0.43
3:BC:63:ILE:CG1	3:BC:65:VAL:HG23	2.47	0.43
4:BD:84:ASN:OD1	4:BD:87:GLU:HG3	2.19	0.43
6:BF:53:LYS:O	6:BF:54:LEU:CB	2.65	0.43
6:BF:63:ASN:ND2	6:BF:96:VAL:HG22	2.32	0.43
7:BG:100:MET:O	7:BG:101:ARG:C	2.55	0.43
9:BI:11:ARG:CZ	9:BI:106:ASP:OD1	2.66	0.43
9:BI:123:ARG:HG3	9:BI:124:PRO:N	2.33	0.43
10:BJ:46:LYS:HG2	10:BJ:68:ARG:HG2	2.00	0.43
12:BL:23:LEU:HD23	12:BL:24:GLU:HG3	2.01	0.43
12:BL:42:LYS:HE3	12:BL:43:LYS:CD	2.46	0.43
13:BM:58:GLU:O	13:BM:61:LYS:HB2	2.19	0.43
15:BO:86:LEU:O	15:BO:88:ARG:N	2.52	0.43
18:BR:72:ARG:HB2	18:BR:73:HIS:HD2	1.82	0.43
22:BV:18:G:N2	22:BV:57:G:H2'	2.34	0.43
51:C0:11:LYS:HA	51:C0:11:LYS:HD2	1.92	0.43
55:C4:9:LYS:C	55:C4:10:LEU:HD23	2.39	0.43
25:CA:1085:A:N6	25:CA:1086:A:H61	2.17	0.43
25:CA:1095:A:C6	25:CA:1096:A:N6	2.86	0.43
25:CA:1249:U:H4'	41:CQ:3:VAL:CG1	2.48	0.43
25:CA:1414:C:C6	25:CA:1415:U:C5	3.06	0.43
25:CA:1806:C:H2'	25:CA:1807:G:O5'	2.19	0.43
25:CA:1915:U:H3'	25:CA:1916:A:H8	1.83	0.43
25:CA:2120:G:C8	25:CA:2120:G:H3'	2.52	0.43
25:CA:2650:U:H2'	25:CA:2651:C:C6	2.53	0.43
25:CA:2723:C:N4	25:CA:2724:U:C4	2.85	0.43
25:CA:275:C:C4	25:CA:276:U:C6	3.07	0.43
25:CA:404:A:C8	25:CA:406:G:C6	3.07	0.43
25:CA:527:C:H4'	25:CA:528:A:O5'	2.18	0.43
25:CA:71:A:C5'	25:CA:72:U:H3'	2.47	0.43
25:CA:96:C:O2'	25:CA:97:C:H5'	2.17	0.43
26:CB:20:G:C2'	26:CB:21:G:C5'	2.96	0.43
28:CD:132:ALA:HA	28:CD:140:HIS:ND1	2.33	0.43
29:CE:155:GLU:HG3	29:CE:159:LEU:HD22	2.00	0.43
30:CF:27:VAL:O	30:CF:27:VAL:HG13	2.18	0.43
30:CF:94:ARG:HH11	30:CF:94:ARG:HB3	1.84	0.43
33:CI:121:ILE:HG22	33:CI:121:ILE:O	2.19	0.43
33:CI:79:LEU:HD22	33:CI:137:LEU:HD11	2.00	0.43
33:CI:57:VAL:CG1	33:CI:59:THR:OG1	2.67	0.43
25:CA:626:A:C2	36:CL:78:ARG:HD3	2.53	0.43
37:CM:125:PRO:C	37:CM:126:ILE:CG2	2.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CR:34:GLU:CD	42:CR:60:LYS:HE2	2.38	0.43
46:CV:50:MET:C	46:CV:52:ALA:H	2.20	0.43
49:CY:9:LYS:HG2	49:CY:11:VAL:H	1.82	0.43
25:CA:929:U:H4'	50:CZ:37:ARG:NH2	2.33	0.43
51:D0:29:VAL:HG12	51:D0:30:ASP:N	2.33	0.43
52:D1:6:GLU:CD	52:D1:26:LYS:HB2	2.38	0.43
54:D3:38:LYS:O	54:D3:38:LYS:HG3	2.18	0.43
25:DA:1064:C:N3	25:DA:1074:G:N2	2.65	0.43
25:DA:1136:G:C2'	25:DA:1137:G:H5'	2.47	0.43
25:DA:1341:G:OP2	25:DA:1394:U:H1'	2.19	0.43
25:DA:1471:G:H2'	25:DA:1471:G:N3	2.33	0.43
25:DA:1517:G:N2	25:DA:1732:C:N3	2.66	0.43
25:DA:1410:G:N2	25:DA:1593:A:C5	2.86	0.43
25:DA:1594:U:O5'	25:DA:1594:U:H6	2.01	0.43
25:DA:1724:G:C6	25:DA:1725:U:C4	3.06	0.43
25:DA:1857:G:H1'	25:DA:1884:G:N2	2.32	0.43
25:DA:1885:A:C2'	25:DA:1886:U:H5'	2.49	0.43
25:DA:1914:C:O4'	25:DA:1914:C:O2	2.34	0.43
25:DA:200:U:H2'	25:DA:201:C:H5'	2.00	0.43
25:DA:1133:A:C8	25:DA:2026:U:H4'	2.53	0.43
25:DA:2080:A:C5'	48:DX:18:SER:HB3	2.49	0.43
25:DA:2304:G:O2'	30:DF:152:ASP:HB2	2.19	0.43
25:DA:2399:G:H2'	25:DA:2400:G:O4'	2.17	0.43
25:DA:250:G:C6	25:DA:251:A:C6	3.06	0.43
25:DA:2618:G:C6	25:DA:2619:C:C4	3.07	0.43
25:DA:264:C:C2'	25:DA:264:C:O2	2.64	0.43
25:DA:2746:U:C4	25:DA:2747:G:C5	3.05	0.43
25:DA:2745:C:C2	25:DA:2746:U:C6	3.06	0.43
25:DA:2769:U:H2'	25:DA:2770:G:O4'	2.17	0.43
25:DA:353:C:N4	25:DA:354:A:N6	2.66	0.43
25:DA:370:G:OP2	60:DA:3567:HOH:O	2.21	0.43
25:DA:262:A:C2	25:DA:430:A:N3	2.86	0.43
25:DA:88:G:C2	25:DA:89:A:C8	3.05	0.43
25:DA:861:A:C2	25:DA:917:A:N3	2.86	0.43
25:DA:935:C:C2'	25:DA:936:A:H5'	2.49	0.43
25:DA:948:C:H2'	25:DA:949:G:C8	2.54	0.43
27:DC:124:LYS:HG2	27:DC:127:ASN:ND2	2.33	0.43
28:DD:1:MET:N	28:DD:1:MET:CE	2.82	0.43
35:DK:76:VAL:HG12	40:DP:72:VAL:HG21	1.94	0.43
36:DL:119:PRO:CG	36:DL:138:ALA:O	2.65	0.43
37:DM:49:ALA:HB2	37:DM:124:LEU:CD2	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:42:THR:O	37:DM:43:ALA:C	2.55	0.43
40:DP:1:SER:H2	40:DP:3:ILE:H	1.66	0.43
41:DQ:75:TYR:CZ	41:DQ:79:ILE:HG13	2.54	0.43
42:DR:37:GLU:OE2	42:DR:53:PHE:CE2	2.72	0.43
46:DV:21:ARG:HA	46:DV:25:LYS:O	2.17	0.43
1:AA:100:G:C5	1:AA:101:A:C5	3.06	0.43
1:AA:1031:C:O2'	1:AA:1032:G:P	2.76	0.43
1:AA:10:A:OP2	5:AE:130:THR:OG1	2.32	0.43
1:AA:1124:G:O4'	10:AJ:40:ILE:HD11	2.18	0.43
1:AA:1150:A:O2'	10:AJ:43:PRO:HD3	2.19	0.43
1:AA:1257:A:H4'	1:AA:1258:G:OP2	2.18	0.43
1:AA:1347:G:C8	9:AI:108:ARG:CB	3.01	0.43
1:AA:1494:G:C2	1:AA:1495:U:C5	3.06	0.43
1:AA:212:G:C2	1:AA:213:G:C5	3.06	0.43
1:AA:445:G:H2'	1:AA:446:G:O4'	2.18	0.43
1:AA:499:A:H61	1:AA:547:A:H5''	1.83	0.43
1:AA:674:G:C2'	1:AA:675:A:O5'	2.66	0.43
1:AA:833:G:C6	1:AA:834:U:C4	3.06	0.43
1:AA:879:C:C6	1:AA:879:C:H3'	2.54	0.43
2:AB:116:LEU:CB	2:AB:140:LEU:HD11	2.48	0.43
2:AB:40:ILE:HG12	2:AB:41:ASN:N	2.32	0.43
2:AB:63:LYS:CB	2:AB:65:LYS:HE2	2.48	0.43
2:AB:69:VAL:O	2:AB:162:VAL:HA	2.18	0.43
2:AB:71:THR:HG22	2:AB:92:ASN:O	2.18	0.43
3:AC:13:ILE:HG13	3:AC:14:VAL:HG13	2.00	0.43
4:AD:104:MET:SD	4:AD:106:PHE:CE2	3.12	0.43
4:AD:159:GLU:O	4:AD:162:GLU:OE1	2.37	0.43
4:AD:189:ASP:O	4:AD:190:LEU:CG	2.66	0.43
8:AH:122:GLY:O	8:AH:123:GLU:C	2.56	0.43
14:AN:7:ALA:O	14:AN:10:VAL:HB	2.18	0.43
3:AC:5:HIS:CB	14:AN:89:MET:HG3	2.49	0.43
15:AO:29:ALA:HA	15:AO:84:LEU:HD21	2.01	0.43
17:AQ:56:ASP:N	17:AQ:56:ASP:OD2	2.51	0.43
17:AQ:76:ARG:HH21	17:AQ:78:VAL:HG22	1.84	0.43
19:AS:33:TRP:CZ2	19:AS:56:HIS:HE1	2.37	0.43
1:AA:1321:U:O3'	19:AS:77:ARG:NH2	2.52	0.43
20:AT:71:ALA:O	20:AT:74:HIS:HB2	2.18	0.43
20:AT:34:VAL:HG11	20:AT:78:LEU:HD22	2.01	0.43
21:AU:14:ALA:O	21:AU:15:LEU:HB2	2.18	0.43
24:AY:110:ARG:HE	24:AY:114:LEU:HD11	1.84	0.43
24:AY:140:VAL:HG12	24:AY:154:ASP:OD2	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1018:G:C6	1:BA:1019:A:C6	3.06	0.43
1:BA:102:G:C4	1:BA:103:U:C5	3.07	0.43
1:BA:1275:A:C6	1:BA:1276:G:C4	3.06	0.43
1:BA:1387:G:C2'	1:BA:1388:C:H5'	2.48	0.43
1:BA:1538:C:OP2	1:BA:1538:C:C5	2.72	0.43
1:BA:69:G:C4	1:BA:70:U:H5	2.36	0.43
2:BB:183:PHE:CE1	2:BB:197:PHE:CD2	3.06	0.43
3:BC:150:VAL:CG1	3:BC:199:VAL:HB	2.48	0.43
5:BE:111:ARG:CZ	5:BE:111:ARG:HB2	2.48	0.43
5:BE:9:GLU:O	5:BE:11:GLN:HB3	2.19	0.43
5:BE:81:GLN:CD	5:BE:149:PRO:HD3	2.38	0.43
6:BF:38:ARG:NH1	6:BF:63:ASN:HB2	2.33	0.43
9:BI:114:LYS:HB2	9:BI:117:LEU:HD22	1.99	0.43
9:BI:18:VAL:CG1	9:BI:85:ALA:CB	2.96	0.43
10:BJ:35:GLN:CD	10:BJ:77:VAL:HB	2.38	0.43
11:BK:69:CYS:O	11:BK:73:VAL:HG11	2.18	0.43
12:BL:98:ARG:HB2	12:BL:116:TYR:HA	2.00	0.43
14:BN:32:ASP:OD2	14:BN:32:ASP:C	2.56	0.43
14:BN:43:ASN:O	14:BN:47:LYS:CG	2.66	0.43
15:BO:69:LEU:HD13	15:BO:77:TYR:HA	2.00	0.43
16:BP:10:GLY:HA3	16:BP:15:PRO:CA	2.45	0.43
19:BS:49:ALA:HB1	19:BS:56:HIS:HB3	2.00	0.43
21:BU:36:PHE:CD1	21:BU:40:PRO:HG3	2.54	0.43
52:C1:9:LYS:O	52:C1:50:GLU:HG3	2.19	0.43
25:CA:100:U:H4'	25:CA:101:A:O5'	2.16	0.43
25:CA:1452:G:C8	25:CA:1457:U:N3	2.86	0.43
25:CA:1484:U:C2	25:CA:1485:U:C5	3.06	0.43
25:CA:1683:U:H6	25:CA:1683:U:O5'	2.01	0.43
25:CA:1693:U:O4	25:CA:1977:A:C5	2.71	0.43
25:CA:2008:C:C2'	25:CA:2009:A:O5'	2.66	0.43
25:CA:2078:C:C2'	25:CA:2079:U:H5'	2.48	0.43
25:CA:2172:U:P	25:CA:2174:C:H5	2.41	0.43
25:CA:2190:G:N3	25:CA:2190:G:H2'	2.33	0.43
25:CA:2452:C:C4	25:CA:2453:A:C6	3.07	0.43
25:CA:677:A:O3'	25:CA:2071:A:H5''	2.19	0.43
25:CA:919:U:C2	25:CA:920:A:C8	3.06	0.43
28:CD:107:VAL:HA	28:CD:206:ALA:H	1.83	0.43
32:CH:45:GLU:O	32:CH:48:GLU:HB3	2.18	0.43
25:CA:538:A:O2'	34:CJ:8:PRO:HD2	2.18	0.43
35:CK:109:SER:O	35:CK:110:GLU:C	2.57	0.43
35:CK:74:GLY:O	35:CK:75:SER:O	2.36	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CL:85:VAL:CG1	36:CL:94:THR:CG2	2.95	0.43
44:CT:12:ARG:O	49:CY:29:ARG:HD2	2.18	0.43
45:CU:88:ASP:CG	45:CU:89:GLY:H	2.22	0.43
46:CV:24:ASN:OD1	46:CV:44:HIS:HB3	2.18	0.43
37:CM:136:MET:SD	46:CV:75:GLN:O	2.76	0.43
25:CA:2356:U:O3'	47:CW:16:ARG:HD3	2.19	0.43
49:CY:61:ALA:O	49:CY:63:ALA:N	2.51	0.43
49:CY:9:LYS:C	49:CY:11:VAL:N	2.72	0.43
51:D0:14:MET:O	51:D0:17:SER:CB	2.65	0.43
54:D3:6:VAL:HB	54:D3:60:CYS:HB3	2.00	0.43
25:DA:1045:C:O2	25:DA:1047:G:N1	2.51	0.43
25:DA:136:G:H1	25:DA:143:C:H42	1.66	0.43
25:DA:1373:A:C5	25:DA:1374:G:H1'	2.53	0.43
25:DA:1401:G:C8	25:DA:1402:U:C5	3.06	0.43
25:DA:1579:A:O2'	25:DA:1580:A:H5'	2.18	0.43
25:DA:1582:C:C5	25:DA:1583:A:C2	3.06	0.43
25:DA:1599:U:OP2	44:DT:40:LYS:HD2	2.18	0.43
25:DA:1856:U:C5	25:DA:1857:G:C5	3.07	0.43
25:DA:1878:G:H2'	25:DA:1879:C:H6	1.82	0.43
25:DA:2048:G:C2'	25:DA:2049:G:O5'	2.67	0.43
25:DA:2176:A:H2'	25:DA:2177:C:C6	2.53	0.43
25:DA:224:U:C4	25:DA:225:C:C5	3.06	0.43
25:DA:231:A:C6	25:DA:232:G:N1	2.86	0.43
25:DA:2354:C:O2'	57:DW:32:ILE:N	2.51	0.43
25:DA:2449:U:H4'	25:DA:2450:A:OP1	2.18	0.43
25:DA:2722:G:O2'	25:DA:2723:C:H5'	2.17	0.43
25:DA:2742:G:OP1	55:D4:36:ARG:HD3	2.19	0.43
25:DA:2758:A:C6	25:DA:2759:G:C8	3.07	0.43
25:DA:2808:G:C2	25:DA:2891:U:C5	3.07	0.43
25:DA:318:C:C2'	25:DA:319:G:O5'	2.66	0.43
25:DA:783:A:H3'	25:DA:783:A:C8	2.54	0.43
25:DA:7:G:H4'	34:DJ:15:TRP:CH2	2.53	0.43
56:DB:17:C:C2'	56:DB:18:G:H5'	2.48	0.43
56:DB:48:U:H4'	39:DO:100:HIS:NE2	2.33	0.43
27:DC:216:ARG:HB3	27:DC:217:PRO:HD2	1.98	0.43
25:DA:1789:A:OP1	27:DC:219:VAL:HA	2.19	0.43
28:DD:38:LYS:HD2	28:DD:45:TYR:OH	2.18	0.43
29:DE:21:ARG:O	29:DE:22:ASP:O	2.37	0.43
31:DG:123:GLU:O	31:DG:125:PRO:HD2	2.18	0.43
32:DH:21:VAL:CG2	32:DH:25:TYR:CD2	3.02	0.43
32:DH:32:PRO:HB3	48:DX:38:TRP:HB3	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:55:ALA:HB2	38:DN:79:LEU:HB2	1.99	0.43
39:DO:74:VAL:O	39:DO:77:ALA:HB3	2.19	0.43
40:DP:11:GLN:HB2	40:DP:54:LEU:CD2	2.48	0.43
42:DR:42:ALA:HA	42:DR:46:GLU:HB2	2.00	0.43
49:DY:8:GLU:CG	49:DY:12:GLU:HB3	2.49	0.43
1:AA:61:G:C5	1:AA:107:G:N2	2.87	0.43
1:AA:1125:U:HO2'	1:AA:1126:U:P	2.42	0.43
1:AA:1191:A:C2'	1:AA:1192:C:H5'	2.47	0.43
1:AA:1253:G:C2	1:AA:1254:A:C4	3.06	0.43
1:AA:1299:A:C5	1:AA:1301:U:O2	2.72	0.43
1:AA:1306:A:C5	1:AA:1307:U:C6	3.06	0.43
1:AA:1337:G:C4'	1:AA:1338:G:OP1	2.66	0.43
1:AA:1337:G:H5'	1:AA:1338:G:OP1	2.18	0.43
1:AA:1520:C:H2'	1:AA:1521:C:H6	1.83	0.43
1:AA:346:G:N2	1:AA:347:G:C8	2.86	0.43
1:AA:849:G:H2'	1:AA:850:U:O5'	2.17	0.43
1:AA:893:C:H2'	1:AA:894:G:C8	2.53	0.43
1:AA:915:A:C2'	1:AA:916:U:H5'	2.48	0.43
2:AB:29:PHE:O	2:AB:41:ASN:N	2.51	0.43
5:AE:24:VAL:O	5:AE:25:LYS:C	2.57	0.43
6:AF:14:GLN:OE1	6:AF:17:GLN:HB2	2.18	0.43
12:AL:49:ARG:HB3	12:AL:89:LEU:HD21	1.99	0.43
13:AM:17:ALA:O	13:AM:20:SER:HB2	2.19	0.43
13:AM:65:GLU:O	13:AM:68:LEU:HB3	2.18	0.43
16:AP:36:VAL:O	16:AP:36:VAL:HG13	2.18	0.43
16:AP:45:GLU:HG2	16:AP:45:GLU:O	2.19	0.43
16:AP:51:ARG:CG	16:AP:51:ARG:NH1	2.79	0.43
18:AR:40:PRO:O	18:AR:44:THR:HG23	2.18	0.43
22:AV:11:C:H6	22:AV:11:C:O5'	2.01	0.43
22:AV:41:C:O5'	22:AV:41:C:H6	2.01	0.43
22:AV:62:C:N3	22:AV:63:G:N7	2.67	0.43
1:BA:100:G:O6	1:BA:101:A:C6	2.72	0.43
1:BA:1095:U:C4	1:BA:1096:C:C4	3.06	0.43
1:BA:1275:A:N7	1:BA:1276:G:N7	2.66	0.43
1:BA:16:A:N1	1:BA:919:A:H2	2.14	0.43
1:BA:363:A:OP1	12:BL:30:ARG:HB3	2.18	0.43
1:BA:459:A:C2'	1:BA:460:A:O4'	2.65	0.43
1:BA:471:U:C4	1:BA:472:U:C4	3.06	0.43
1:BA:49:U:C4	1:BA:364:A:C5	3.06	0.43
1:BA:596:A:C6	1:BA:645:G:C2	3.06	0.43
1:BA:663:A:C2	1:BA:743:A:C2	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:942:G:C2	1:BA:1342:C:O2	2.72	0.43
1:BA:949:A:H2'	1:BA:950:U:O4'	2.18	0.43
1:BA:956:U:C4	1:BA:957:U:C5	3.07	0.43
1:BA:72:A:H61	1:BA:99:C:H1'	1.83	0.43
2:BB:32:GLY:O	2:BB:33:ALA:CB	2.66	0.43
3:BC:129:PHE:CD2	3:BC:156:LEU:HD23	2.54	0.43
4:BD:168:THR:HB	4:BD:183:ARG:HH21	1.84	0.43
4:BD:60:VAL:O	4:BD:63:ILE:N	2.51	0.43
6:BF:19:PRO:CA	6:BF:22:ILE:HD12	2.44	0.43
6:BF:74:LEU:HA	6:BF:74:LEU:HD12	1.78	0.43
10:BJ:77:VAL:O	10:BJ:79:PRO:HD3	2.19	0.43
13:BM:47:LEU:HD13	13:BM:52:ILE:CG1	2.48	0.43
14:BN:27:LYS:CA	14:BN:30:ILE:HB	2.48	0.43
21:BU:13:VAL:O	21:BU:15:LEU:HG	2.18	0.43
52:C1:38:PHE:CE2	52:C1:40:PRO:HA	2.53	0.43
25:CA:1070:A:C6	33:CI:9:LYS:O	2.71	0.43
25:CA:1102:C:H2'	25:CA:1103:A:C8	2.53	0.43
25:CA:1142:A:C2	25:CA:1144:A:N9	2.86	0.43
25:CA:1406:U:H2'	25:CA:1407:G:C8	2.53	0.43
25:CA:1464:G:O2'	25:CA:1465:G:H5'	2.18	0.43
25:CA:178:G:H8	25:CA:178:G:O5'	2.02	0.43
25:CA:1872:A:H8	25:CA:1873:G:C1'	2.32	0.43
25:CA:1883:U:H2'	25:CA:1884:G:O4'	2.18	0.43
25:CA:2093:G:O2'	25:CA:2094:A:H5'	2.18	0.43
25:CA:2145:C:C6	25:CA:2145:C:C3'	3.02	0.43
25:CA:2133:G:H2'	25:CA:2158:A:N6	2.32	0.43
25:CA:2281:A:O2'	25:CA:2282:G:H5'	2.18	0.43
25:CA:2474:U:C5'	25:CA:2475:C:OP2	2.67	0.43
25:CA:2703:C:N4	25:CA:2704:C:H41	2.16	0.43
25:CA:5:A:C2	25:CA:2899:A:C2	3.07	0.43
25:CA:328:U:H2'	25:CA:329:G:OP1	2.18	0.43
25:CA:586:A:H8	25:CA:586:A:H5''	1.83	0.43
25:CA:919:U:C2'	25:CA:920:A:H5'	2.49	0.43
26:CB:42:C:P	30:CF:63:LYS:HE3	2.58	0.43
26:CB:51:G:O2'	26:CB:52:A:H5'	2.18	0.43
27:CC:17:LYS:CE	27:CC:17:LYS:CA	2.95	0.43
27:CC:56:GLY:HA2	27:CC:212:TRP:HA	2.00	0.43
33:CI:33:ASN:HB3	33:CI:36:GLU:HB2	2.01	0.43
36:CL:130:GLY:O	36:CL:131:ALA:C	2.57	0.43
39:CO:2:ASP:O	39:CO:3:LYS:C	2.57	0.43
39:CO:66:GLY:CA	39:CO:102:ARG:HH22	2.31	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CO:74:VAL:O	39:CO:78:VAL:HG22	2.19	0.43
39:CO:88:LYS:O	39:CO:89:ASP:HB2	2.18	0.43
43:CS:3:THR:HG21	43:CS:58:ALA:N	2.34	0.43
45:CU:46:LYS:HB3	45:CU:46:LYS:HE2	1.85	0.43
45:CU:5:ARG:O	45:CU:6:ARG:O	2.35	0.43
46:CV:50:MET:C	46:CV:52:ALA:N	2.68	0.43
49:CY:37:LEU:C	49:CY:37:LEU:CD1	2.87	0.43
25:DA:1096:A:C6	25:DA:1097:U:H5	2.35	0.43
25:DA:1252:G:C2	41:DQ:32:ARG:HG2	2.54	0.43
25:DA:1424:G:C2	25:DA:1425:G:H1'	2.53	0.43
25:DA:1459:G:H2'	25:DA:1460:U:O5'	2.18	0.43
25:DA:1519:G:N1	25:DA:1520:U:C2	2.86	0.43
25:DA:1556:C:H2'	25:DA:1557:C:H5'	1.98	0.43
25:DA:1675:C:C2'	25:DA:1676:A:H5'	2.49	0.43
25:DA:2364:C:H2'	25:DA:2365:G:H5'	2.00	0.43
25:DA:2402:U:C2'	25:DA:2403:C:OP2	2.67	0.43
25:DA:277:G:O2'	25:DA:361:G:N1	2.52	0.43
25:DA:412:A:C2'	25:DA:413:C:H5'	2.47	0.43
25:DA:480:A:H2'	25:DA:480:A:N3	2.33	0.43
25:DA:543:G:C5'	25:DA:543:G:C8	3.02	0.43
25:DA:756:A:H2'	25:DA:757:G:O4'	2.18	0.43
27:DC:215:VAL:HG12	27:DC:215:VAL:O	2.18	0.43
31:DG:3:VAL:O	31:DG:4:ALA:C	2.55	0.43
32:DH:3:VAL:CA	32:DH:39:ALA:HB2	2.49	0.43
33:DI:100:ILE:O	33:DI:101:SER:CB	2.64	0.43
34:DJ:55:ILE:CD1	34:DJ:132:HIS:HB2	2.48	0.43
36:DL:4:ASN:HD22	36:DL:4:ASN:N	2.17	0.43
36:DL:98:ALA:O	36:DL:100:ILE:HG22	2.19	0.43
37:DM:64:TRP:HZ3	37:DM:106:ASP:HB3	1.82	0.43
38:DN:81:ASN:OD1	38:DN:81:ASN:N	2.50	0.43
40:DP:69:VAL:C	40:DP:70:GLU:HG3	2.39	0.43
42:DR:6:GLN:O	42:DR:7:SER:HB2	2.18	0.43
44:DT:39:THR:HG23	44:DT:41:ALA:N	2.32	0.43
46:DV:30:ILE:HG12	46:DV:91:PHE:HB2	1.99	0.43
46:DV:8:VAL:O	46:DV:9:ARG:C	2.56	0.43
49:DY:45:GLN:O	49:DY:48:ARG:HB2	2.19	0.43
1:AA:1258:G:C2	1:AA:1259:C:C2	3.06	0.43
1:AA:1285:A:C5'	1:AA:1286:U:O4	2.67	0.43
1:AA:1449:C:H1'	1:AA:1455:G:N2	2.34	0.43
1:AA:1508:A:H2'	1:AA:1509:C:O4'	2.18	0.43
1:AA:250:A:N3	1:AA:250:A:H5'	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:257:G:C2	1:AA:258:G:N7	2.87	0.43
1:AA:33:A:O2'	1:AA:363:A:H1'	2.18	0.43
1:AA:380:G:H3'	1:AA:380:G:C8	2.53	0.43
1:AA:650:G:C2'	1:AA:651:C:H5'	2.49	0.43
1:AA:815:A:O2'	1:AA:816:A:OP1	2.26	0.43
1:AA:89:U:O2'	1:AA:90:C:H5'	2.18	0.43
1:AA:949:A:C6	1:AA:950:U:C4	3.07	0.43
2:AB:159:ALA:O	2:AB:160:LEU:HB2	2.18	0.43
2:AB:53:LEU:HA	2:AB:56:LEU:HB3	2.01	0.43
1:AA:426:U:H5''	4:AD:36:ALA:HB1	2.00	0.43
4:AD:73:ASN:O	4:AD:77:GLU:HB2	2.18	0.43
5:AE:149:PRO:HA	8:AH:98:LEU:CD1	2.48	0.43
6:AF:11:HIS:HA	6:AF:12:PRO:HD2	1.77	0.43
6:AF:62:MET:O	6:AF:63:ASN:CB	2.66	0.43
6:AF:69:GLU:O	6:AF:72:ASP:HB3	2.18	0.43
6:AF:92:THR:CG2	6:AF:93:LYS:H	2.31	0.43
7:AG:148:LYS:C	7:AG:150:PHE:N	2.69	0.43
9:AI:49:GLN:C	9:AI:51:LEU:H	2.22	0.43
9:AI:53:LEU:HD12	9:AI:53:LEU:N	2.34	0.43
11:AK:107:THR:HG22	11:AK:108:ASN:ND2	2.33	0.43
12:AL:93:ARG:O	12:AL:94:TYR:CG	2.72	0.43
14:AN:48:LEU:HD23	14:AN:51:LEU:HD21	1.99	0.43
19:AS:50:VAL:CG2	19:AS:70:LEU:CD1	2.90	0.43
20:AT:57:VAL:HG12	20:AT:58:ASP:N	2.33	0.43
20:AT:5:SER:OG	20:AT:6:ALA:N	2.52	0.43
24:AY:9:ASP:HB3	24:AY:13:ARG:HH22	1.78	0.43
24:AY:12:VAL:HG12	24:AY:13:ARG:N	2.32	0.43
1:BA:1136:C:H4'	1:BA:1137:C:OP2	2.19	0.43
1:BA:1285:A:H5'	1:BA:1286:U:O4	2.18	0.43
1:BA:1347:G:C8	9:BI:108:ARG:CB	3.02	0.43
1:BA:148:G:H2'	1:BA:149:A:O5'	2.18	0.43
1:BA:1491:G:C8	1:BA:1492:A:N7	2.86	0.43
1:BA:392:C:O2'	1:BA:483:C:H1'	2.18	0.43
1:BA:620:C:O2	4:BD:131:ILE:HG21	2.18	0.43
1:BA:81:A:H2'	1:BA:82:G:C8	2.54	0.43
1:BA:901:A:C5	1:BA:902:G:H1'	2.53	0.43
2:BB:141:GLU:HG2	2:BB:142:LYS:H	1.83	0.43
2:BB:67:LEU:HA	2:BB:89:PHE:O	2.19	0.43
3:BC:71:ARG:CB	3:BC:74:ILE:CG2	2.94	0.43
5:BE:29:ILE:O	5:BE:29:ILE:HG23	2.18	0.43
6:BF:29:ILE:CD1	6:BF:29:ILE:N	2.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:47:LEU:HD13	6:BF:51:ILE:CG2	2.48	0.43
6:BF:82:ASP:C	6:BF:84:VAL:H	2.22	0.43
6:BF:88:MET:HG2	6:BF:90:MET:CG	2.49	0.43
7:BG:137:ARG:NH2	7:BG:138:GLU:CG	2.81	0.43
9:BI:41:GLU:O	9:BI:42:THR:C	2.56	0.43
9:BI:6:TYR:HA	9:BI:18:VAL:O	2.19	0.43
10:BJ:35:GLN:NE2	10:BJ:77:VAL:HB	2.33	0.43
10:BJ:36:VAL:HG12	10:BJ:38:GLY:HA2	2.01	0.43
11:BK:62:ALA:HB3	11:BK:91:GLY:HA2	1.99	0.43
14:BN:20:PHE:CA	14:BN:24:ALA:HB2	2.49	0.43
14:BN:33:VAL:O	14:BN:33:VAL:HG12	2.18	0.43
15:BO:30:LEU:O	15:BO:34:GLN:HB2	2.18	0.43
15:BO:48:ASP:CG	15:BO:51:SER:HB2	2.39	0.43
17:BQ:46:HIS:HB2	17:BQ:70:LYS:HE2	2.01	0.43
19:BS:10:ILE:HG12	19:BS:15:LEU:HD22	2.01	0.43
19:BS:17:LYS:HA	19:BS:20:LYS:HB3	2.01	0.43
20:BT:66:ILE:CG2	20:BT:67:HIS:N	2.80	0.43
25:CA:1058:U:O2	25:CA:1058:U:H2'	2.18	0.43
25:CA:1059:G:C4	25:CA:1060:U:C5	3.07	0.43
25:CA:1071:G:C4	25:CA:1089:A:C5	3.07	0.43
25:CA:1180:U:C2'	25:CA:1181:U:C5'	2.95	0.43
25:CA:1483:G:C2	25:CA:1507:C:O2	2.71	0.43
25:CA:1559:U:H4'	25:CA:1560:G:OP2	2.19	0.43
25:CA:2114:A:N3	25:CA:2114:A:C2'	2.79	0.43
25:CA:2161:C:C2'	25:CA:2161:C:O2	2.62	0.43
25:CA:2304:G:C2'	25:CA:2305:U:H5''	2.47	0.43
25:CA:2516:A:C6	25:CA:2517:C:C4	3.06	0.43
25:CA:2552:U:H2'	25:CA:2554:U:H5''	2.00	0.43
25:CA:2051:A:H5'	25:CA:2578:G:O4'	2.19	0.43
25:CA:2636:C:H2'	25:CA:2636:C:O2	2.18	0.43
25:CA:2831:G:H1'	25:CA:2883:A:H2'	2.01	0.43
25:CA:306:U:C4	25:CA:307:G:C5	3.07	0.43
25:CA:323:C:O2	25:CA:323:C:O4'	2.31	0.43
25:CA:570:G:OP1	25:CA:972:A:O2'	2.27	0.43
25:CA:811:U:O4	36:CL:21:ARG:NH2	2.51	0.43
25:CA:848:C:H2'	25:CA:849:A:C8	2.53	0.43
25:CA:852:U:H2'	25:CA:853:C:C6	2.53	0.43
25:CA:86:G:C2	25:CA:87:U:C4	3.06	0.43
25:CA:67:U:O2	25:CA:88:G:C2	2.71	0.43
27:CC:92:LEU:HD11	27:CC:100:ARG:HD3	2.00	0.43
27:CC:35:LYS:O	27:CC:36:ASN:HB2	2.14	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:2:ILE:HG23	28:CD:88:GLU:OE2	2.18	0.43
28:CD:61:THR:OG1	28:CD:64:GLU:HG3	2.19	0.43
30:CF:127:TYR:CE2	30:CF:129:MET:HG2	2.53	0.43
31:CG:25:ILE:HG21	31:CG:74:MET:O	2.19	0.43
31:CG:42:VAL:HB	31:CG:51:PHE:CD1	2.53	0.43
32:CH:142:VAL:HG12	32:CH:143:ILE:H	1.83	0.43
33:CI:107:GLU:HA	33:CI:110:GLN:OE1	2.18	0.43
25:CA:1063:G:H4'	33:CI:76:ALA:HB1	2.00	0.43
35:CK:103:VAL:O	35:CK:122:VAL:HB	2.17	0.43
38:CN:32:GLU:OE1	38:CN:118:ARG:HA	2.18	0.43
39:CO:59:ALA:O	39:CO:60:GLU:C	2.56	0.43
42:CR:40:MET:HE2	42:CR:48:LYS:HE2	1.99	0.43
42:CR:48:LYS:HE3	42:CR:48:LYS:HB3	1.52	0.43
41:CQ:87:VAL:CG1	42:CR:49:ILE:HD11	2.48	0.43
42:CR:49:ILE:O	42:CR:51:VAL:O	2.37	0.43
45:CU:68:ASN:C	45:CU:69:VAL:HG13	2.38	0.43
46:CV:60:VAL:C	46:CV:61:LEU:HD13	2.39	0.43
52:D1:16:THR:HG21	52:D1:39:ASP:OD1	2.18	0.43
55:D4:10:LEU:N	55:D4:14:CYS:SG	2.92	0.43
55:D4:1:MET:SD	55:D4:36:ARG:HB2	2.59	0.43
25:DA:1221:C:H2'	25:DA:1222:U:O4'	2.19	0.43
25:DA:1301:A:N3	25:DA:1301:A:C2'	2.82	0.43
25:DA:1398:C:C2'	25:DA:1399:C:O5'	2.65	0.43
25:DA:1402:U:H2'	25:DA:1402:U:O2	2.17	0.43
25:DA:1487:U:N3	25:DA:1503:A:C2	2.86	0.43
25:DA:1681:G:C8	25:DA:1762:A:C2	3.06	0.43
25:DA:2111:U:C4	25:DA:2147:A:H2	2.37	0.43
25:DA:2114:A:C2'	25:DA:2114:A:N3	2.80	0.43
25:DA:2407:A:C2	25:DA:2408:U:C6	3.06	0.43
25:DA:2511:U:H2'	25:DA:2512:C:O4'	2.17	0.43
25:DA:2540:C:C2'	25:DA:2541:A:H5'	2.49	0.43
25:DA:2588:G:C6	25:DA:2607:G:C2	3.06	0.43
25:DA:2751:G:H2'	25:DA:2751:G:N3	2.34	0.43
25:DA:2794:C:O2	25:DA:2795:C:N1	2.52	0.43
25:DA:42:A:N3	25:DA:438:G:C2	2.87	0.43
25:DA:784:G:P	60:DA:3317:HOH:O	2.76	0.43
25:DA:796:C:OP1	29:DE:57:LYS:NZ	2.47	0.43
25:DA:80:G:H2'	25:DA:81:G:H5'	2.00	0.43
25:DA:864:G:O2'	25:DA:865:C:H5'	2.19	0.43
27:DC:243:PRO:C	27:DC:244:VAL:HG13	2.38	0.43
28:DD:62:LYS:N	28:DD:63:PRO:CD	2.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:114:ARG:HE	29:DE:114:ARG:HB2	1.61	0.43
25:DA:659:G:O5'	29:DE:95:LYS:HD3	2.18	0.43
30:DF:41:GLU:O	30:DF:45:ASP:OD1	2.36	0.43
31:DG:136:ASP:HB3	31:DG:139:VAL:HG23	2.01	0.43
31:DG:53:PRO:HG3	31:DG:61:TRP:CD2	2.53	0.43
34:DJ:98:GLU:O	34:DJ:102:GLU:HG3	2.19	0.43
34:DJ:122:LEU:HD12	34:DJ:123:LYS:N	2.33	0.43
34:DJ:39:LYS:NZ	34:DJ:44:TYR:CZ	2.86	0.43
34:DJ:80:HIS:HB3	34:DJ:81:ILE:CG2	2.46	0.43
39:DO:36:TYR:N	39:DO:36:TYR:CD2	2.83	0.43
39:DO:26:LEU:CD1	39:DO:39:VAL:CG2	2.92	0.43
44:DT:34:VAL:HG21	44:DT:43:ILE:HD11	2.00	0.43
45:DU:23:LYS:HB3	45:DU:36:GLU:CD	2.39	0.43
46:DV:80:HIS:HE1	46:DV:82:TYR:CD2	2.36	0.43
49:DY:9:LYS:H	49:DY:12:GLU:HG3	1.81	0.43
1:AA:108:G:N2	1:AA:109:A:N1	2.66	0.43
1:AA:1140:C:HO2'	1:AA:1141:C:P	2.40	0.43
1:AA:1374:A:O2'	1:AA:1375:A:H5'	2.19	0.43
1:AA:182:A:N7	1:AA:184:G:C5	2.87	0.43
1:AA:199:A:C2	1:AA:200:G:C5	3.06	0.43
1:AA:283:U:H2'	1:AA:284:C:C6	2.53	0.43
1:AA:518:C:H5''	1:AA:519:C:C6	2.54	0.43
1:AA:66:A:O4'	1:AA:173:U:C4	2.71	0.43
2:AB:110:ILE:CD1	2:AB:147:LEU:HD13	2.49	0.43
4:AD:106:PHE:CG	4:AD:144:ILE:HD11	2.53	0.43
4:AD:123:MET:O	4:AD:142:VAL:HA	2.18	0.43
4:AD:194:ILE:HG13	4:AD:196:GLU:OE2	2.18	0.43
9:AI:24:ASN:C	9:AI:58:GLU:CA	2.87	0.43
9:AI:35:GLU:OE2	9:AI:39:GLY:HA3	2.18	0.43
9:AI:49:GLN:N	9:AI:50:PRO:HD2	2.34	0.43
10:AJ:83:THR:CG2	10:AJ:84:VAL:N	2.82	0.43
14:AN:20:PHE:O	14:AN:21:ALA:HB3	2.19	0.43
14:AN:41:ARG:CB	14:AN:42:TRP:CE3	3.01	0.43
16:AP:15:PRO:O	16:AP:16:PHE:HB2	2.19	0.43
16:AP:3:THR:HG22	16:AP:4:ILE:H	1.82	0.43
19:AS:54:ARG:HG3	19:AS:54:ARG:H	1.69	0.43
20:AT:23:ARG:O	20:AT:26:MET:N	2.51	0.43
1:AA:1539:C:P	21:AU:17:ARG:CZ	3.07	0.43
1:BA:1000:A:C6	1:BA:1001:C:N3	2.87	0.43
1:BA:1148:U:C4	1:BA:1149:C:N3	2.86	0.43
1:BA:1151:A:C2	1:BA:1152:A:C6	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1233:G:C6	1:BA:1234:C:C4	3.07	0.43
1:BA:1276:G:H2'	1:BA:1277:C:C6	2.54	0.43
1:BA:1317:C:H2'	1:BA:1318:A:C5'	2.49	0.43
1:BA:1317:C:C2'	1:BA:1318:A:O5'	2.66	0.43
1:BA:1486:G:N1	1:BA:1487:G:C2	2.86	0.43
1:BA:926:G:C6	1:BA:1505:G:C6	3.07	0.43
1:BA:174:A:C5	1:BA:175:C:C5	3.07	0.43
1:BA:762:U:H2'	1:BA:763:G:C8	2.53	0.43
1:BA:782:A:C6	1:BA:801:U:C2	3.07	0.43
1:BA:807:A:H2'	1:BA:808:C:C6	2.54	0.43
1:BA:905:U:C2'	1:BA:906:A:H5'	2.48	0.43
1:BA:98:A:O2'	1:BA:99:C:H5'	2.19	0.43
2:BB:117:GLU:HA	2:BB:120:SER:HB2	2.00	0.43
2:BB:130:LYS:O	2:BB:134:LEU:N	2.51	0.43
2:BB:18:GLN:O	2:BB:37:VAL:CG2	2.67	0.43
2:BB:9:LEU:HB2	2:BB:42:LEU:HD22	2.00	0.43
2:BB:71:THR:O	2:BB:72:LYS:HG2	2.19	0.43
4:BD:30:LYS:HE2	4:BD:30:LYS:H	1.84	0.43
6:BF:40:GLU:OE1	6:BF:100:SER:CB	2.66	0.43
7:BG:13:PRO:HA	7:BG:20:GLU:HG3	1.99	0.43
7:BG:23:ALA:O	7:BG:26:VAL:CG2	2.66	0.43
10:BJ:10:LEU:N	10:BJ:10:LEU:CD1	2.77	0.43
10:BJ:35:GLN:HG2	10:BJ:77:VAL:HB	2.00	0.43
10:BJ:84:VAL:O	10:BJ:88:MET:CG	2.67	0.43
12:BL:54:VAL:CG2	12:BL:79:ILE:HD11	2.48	0.43
13:BM:14:ALA:HA	13:BM:44:ILE:HD11	2.01	0.43
19:BS:39:ILE:HG22	19:BS:66:VAL:HA	2.00	0.43
20:BT:35:TYR:HE1	20:BT:39:GLU:OE2	2.01	0.43
25:CA:1039:A:C2'	25:CA:1040:A:O5'	2.66	0.43
25:CA:130:C:H2'	25:CA:131:A:O5'	2.19	0.43
25:CA:1414:C:H6	25:CA:1414:C:H3'	1.83	0.43
25:CA:1434:A:O2'	25:CA:1435:G:O4'	2.37	0.43
25:CA:1583:A:O4'	25:CA:1583:A:N3	2.50	0.43
25:CA:1870:C:H2'	25:CA:1871:A:N3	2.33	0.43
25:CA:1875:G:HO2'	25:CA:1876:A:P	2.41	0.43
25:CA:1826:G:O2'	25:CA:1971:U:OP2	2.36	0.43
25:CA:2221:G:C2'	25:CA:2222:C:C5'	2.96	0.43
25:CA:2655:G:HO2'	25:CA:2656:U:P	2.40	0.43
25:CA:671:C:H2'	25:CA:672:C:C6	2.54	0.43
25:CA:684:G:C2	25:CA:794:A:C2	3.07	0.43
25:CA:877:A:C2	25:CA:899:A:C2	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:928:A:C2'	25:CA:929:U:H5'	2.48	0.43
27:CC:134:ILE:HG23	27:CC:135:PRO:CD	2.49	0.43
29:CE:109:LEU:O	29:CE:111:GLU:N	2.52	0.43
30:CF:116:LEU:HD22	30:CF:116:LEU:N	2.33	0.43
30:CF:63:LYS:HA	30:CF:64:PRO:HD3	1.87	0.43
32:CH:4:ILE:CG2	32:CH:5:LEU:N	2.80	0.43
33:CI:106:GLN:O	33:CI:110:GLN:N	2.52	0.43
33:CI:57:VAL:CG1	33:CI:68:PHE:HA	2.49	0.43
35:CK:108:ARG:NH1	40:CP:34:GLY:HA2	2.34	0.43
35:CK:66:LYS:HD2	35:CK:66:LYS:HA	1.79	0.43
35:CK:13:ASN:HD21	35:CK:98:ARG:HG3	1.83	0.43
36:CL:126:ARG:HD3	36:CL:126:ARG:N	2.32	0.43
39:CO:110:ALA:O	39:CO:115:LEU:HB2	2.18	0.43
40:CP:14:GLN:O	40:CP:15:ASP:CB	2.59	0.43
40:CP:3:ILE:CD1	40:CP:3:ILE:N	2.82	0.43
25:DA:241:A:O2'	54:D3:2:LYS:NZ	2.52	0.43
55:D4:9:LYS:HG2	55:D4:14:CYS:CB	2.48	0.43
25:DA:1117:C:O2	25:DA:1117:C:C2'	2.65	0.43
25:DA:1178:C:H5'	25:DA:1179:G:OP1	2.18	0.43
25:DA:1353:A:C6	25:DA:1354:A:C2	3.07	0.43
25:DA:1370:C:H2'	25:DA:1371:G:O4'	2.18	0.43
25:DA:1344:U:H1'	25:DA:1384:A:H2'	2.01	0.43
25:DA:1386:C:H2'	25:DA:1387:A:H8	1.83	0.43
25:DA:1414:C:C3'	25:DA:1414:C:C6	3.01	0.43
25:DA:1559:U:H3'	25:DA:1560:G:C5'	2.49	0.43
25:DA:1722:A:C2	25:DA:1739:A:N3	2.86	0.43
25:DA:1856:U:O4	25:DA:1857:G:C6	2.71	0.43
25:DA:202:U:H2'	25:DA:203:A:C8	2.52	0.43
25:DA:205:G:HO2'	25:DA:206:U:P	2.41	0.43
25:DA:2080:A:C5	25:DA:2081:U:C4	3.07	0.43
25:DA:2150:C:C4	25:DA:2151:U:C5	3.07	0.43
25:DA:2603:G:C6	25:DA:2604:U:C4	3.07	0.43
25:DA:2772:C:H2'	25:DA:2773:C:C6	2.53	0.43
25:DA:2808:G:N2	25:DA:2891:U:C6	2.86	0.43
25:DA:537:G:C2	25:DA:555:G:C2	3.07	0.43
25:DA:616:A:O2'	25:DA:617:G:H5'	2.18	0.43
25:DA:67:U:H2'	25:DA:68:G:O4'	2.18	0.43
25:DA:973:A:H5'	25:DA:1188:U:H1'	2.01	0.43
56:DB:33:G:H2'	56:DB:34:A:C8	2.53	0.43
27:DC:70:LYS:HG2	27:DC:101:ARG:NH1	2.33	0.43
29:DE:157:LEU:HD23	29:DE:169:VAL:HG11	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:168:ASP:HB2	29:DE:183:PHE:CZ	2.53	0.43
30:DF:109:ARG:NH1	30:DF:138:PRO:HG3	2.34	0.43
31:DG:131:VAL:O	31:DG:131:VAL:HG12	2.18	0.43
31:DG:26:LYS:HB3	31:DG:31:GLU:CD	2.39	0.43
32:DH:61:VAL:O	32:DH:64:ALA:HB3	2.18	0.43
33:DI:12:VAL:HG23	33:DI:16:MET:HB2	2.00	0.43
33:DI:102:ARG:H	33:DI:141:ASP:HB2	1.84	0.43
38:DN:103:ARG:NE	38:DN:110:MET:HE3	2.33	0.43
39:DO:35:ILE:HG23	39:DO:35:ILE:O	2.19	0.43
40:DP:112:ARG:O	40:DP:113:LEU:HD23	2.18	0.43
42:DR:47:VAL:CG1	42:DR:54:VAL:HG22	2.48	0.43
43:DS:35:ILE:O	43:DS:36:LEU:C	2.53	0.43
43:DS:85:ILE:N	43:DS:96:ILE:HD11	2.33	0.43
48:DX:29:LEU:HD22	48:DX:30:PRO:CD	2.49	0.43
1:AA:1004:A:O2'	1:AA:1005:A:H5'	2.18	0.43
1:AA:1135:U:C2	1:AA:1137:C:N3	2.87	0.43
1:AA:1271:A:C5'	1:AA:1314:C:H5''	2.49	0.43
1:AA:1324:A:C2	1:AA:1325:C:C2	3.06	0.43
1:AA:1346:A:O2'	7:AG:9:ARG:NH1	2.51	0.43
1:AA:927:G:C2	1:AA:1391:U:O2	2.71	0.43
1:AA:145:G:C2'	1:AA:146:G:O5'	2.67	0.43
1:AA:1405:G:H1'	1:AA:1518:A:O2'	2.19	0.43
1:AA:295:C:H2'	1:AA:296:U:H6	1.84	0.43
1:AA:377:G:C2	1:AA:387:U:O2	2.71	0.43
1:AA:541:G:H2'	1:AA:542:G:H8	1.83	0.43
1:AA:645:G:C5	1:AA:646:G:N7	2.87	0.43
1:AA:677:U:H3	1:AA:713:G:H1	1.66	0.43
2:AB:101:THR:HB	2:AB:174:GLU:OE1	2.19	0.43
3:AC:35:ASP:HA	3:AC:38:VAL:HG22	2.01	0.43
4:AD:109:THR:HG1	4:AD:111:ALA:HB3	1.84	0.43
4:AD:11:SER:O	4:AD:12:ARG:C	2.57	0.43
4:AD:149:LYS:O	4:AD:150:LYS:C	2.56	0.43
4:AD:156:ALA:O	4:AD:160:LEU:HD22	2.19	0.43
4:AD:11:SER:OG	4:AD:18:LEU:HG	2.19	0.43
4:AD:193:ASP:OD2	4:AD:193:ASP:N	2.50	0.43
5:AE:45:VAL:HG22	5:AE:117:ALA:HB1	2.01	0.43
5:AE:104:ILE:HD12	5:AE:122:VAL:HG23	2.01	0.43
1:AA:1298:U:O4	7:AG:113:LYS:O	2.37	0.43
7:AG:13:PRO:O	7:AG:14:ASP:O	2.37	0.43
7:AG:65:LEU:C	7:AG:67:ASN:H	2.22	0.43
10:AJ:16:ARG:O	10:AJ:17:LEU:CB	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:42:LYS:O	12:AL:44:PRO:HD2	2.19	0.43
12:AL:56:LEU:CB	12:AL:58:ASN:OD1	2.67	0.43
13:AM:21:ILE:O	13:AM:24:VAL:HG22	2.19	0.43
15:AO:65:LEU:HD23	15:AO:65:LEU:HA	1.75	0.43
15:AO:78:THR:C	15:AO:82:GLU:OE1	2.57	0.43
22:AV:55:U:C2'	22:AV:57:G:N7	2.81	0.43
23:AX:14:A:N6	23:AX:15:A:C6	2.86	0.43
1:BA:1088:G:N1	1:BA:1089:G:C5	2.87	0.43
1:BA:1137:C:O4'	1:BA:1137:C:O2	2.36	0.43
1:BA:154:U:O2	1:BA:168:G:N2	2.52	0.43
1:BA:357:G:C2'	1:BA:358:U:O5'	2.67	0.43
1:BA:462:G:C6	1:BA:463:U:C6	3.07	0.43
1:BA:559:A:H4'	1:BA:560:A:H5''	1.99	0.43
1:BA:560:A:C8	1:BA:566:G:C2	3.06	0.43
1:BA:81:A:C2	1:BA:89:U:C2	3.07	0.43
1:BA:971:G:H1'	1:BA:1365:G:O2'	2.19	0.43
2:BB:102:ASN:O	2:BB:103:TRP:C	2.57	0.43
3:BC:178:ARG:CD	3:BC:178:ARG:O	2.67	0.43
6:BF:1:MET:SD	6:BF:67:PRO:HD3	2.59	0.43
6:BF:68:GLN:HA	6:BF:71:ILE:HG22	2.00	0.43
6:BF:9:MET:SD	6:BF:59:TYR:CE1	3.12	0.43
7:BG:131:GLY:H	7:BG:134:VAL:CG2	2.30	0.43
8:BH:36:ALA:O	8:BH:39:LEU:N	2.52	0.43
12:BL:41:PRO:HB3	12:BL:88:ASP:OD1	2.18	0.43
14:BN:19:TYR:O	14:BN:20:PHE:O	2.36	0.43
16:BP:35:ARG:HG2	16:BP:36:VAL:H	1.83	0.43
17:BQ:16:MET:SD	17:BQ:16:MET:N	2.92	0.43
17:BQ:31:PRO:HB2	17:BQ:32:ILE:CD1	2.48	0.43
20:BT:80:ALA:O	20:BT:81:GLN:C	2.57	0.43
21:BU:14:ALA:C	21:BU:16:ARG:H	2.22	0.43
25:CA:1069:A:C4'	25:CA:1070:A:H8	2.32	0.43
25:CA:1416:G:O2'	25:CA:1417:C:OP2	2.37	0.43
25:CA:163:C:H2'	25:CA:164:C:O4'	2.19	0.43
25:CA:2078:C:H2'	25:CA:2079:U:O4'	2.19	0.43
25:CA:2156:G:N7	25:CA:2157:G:C6	2.87	0.43
25:CA:858:G:O2'	25:CA:2268:A:H1'	2.19	0.43
25:CA:2555:U:C3'	25:CA:2556:C:H5'	2.49	0.43
25:CA:2568:U:H2'	25:CA:2569:G:O4'	2.18	0.43
25:CA:2734:A:H2'	25:CA:2735:G:O4'	2.18	0.43
25:CA:2853:C:C2	25:CA:2854:G:C8	3.06	0.43
25:CA:2808:G:C2	25:CA:2891:U:C6	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:319:G:H2'	25:CA:320:A:O5'	2.18	0.43
25:CA:408:G:O6	25:CA:409:G:C6	2.72	0.43
25:CA:545:U:O2	25:CA:545:U:P	2.77	0.43
25:CA:811:U:C2	25:CA:1251:C:C5	3.06	0.43
25:CA:915:C:H2'	25:CA:916:G:O5'	2.18	0.43
28:CD:39:ASP:OD2	28:CD:40:LEU:CB	2.67	0.43
30:CF:36:ASN:ND2	30:CF:37:MET:H	2.17	0.43
30:CF:43:ILE:HA	30:CF:82:TYR:OH	2.19	0.43
31:CG:148:ARG:HG2	31:CG:148:ARG:NH1	2.34	0.43
32:CH:97:ARG:HE	32:CH:112:LYS:NZ	2.16	0.43
32:CH:135:HIS:CD2	32:CH:138:VAL:HG23	2.54	0.43
32:CH:21:VAL:HG22	32:CH:25:TYR:HB3	2.00	0.43
33:CI:32:VAL:CG1	33:CI:33:ASN:N	2.81	0.43
33:CI:79:LEU:HD11	33:CI:132:ALA:CA	2.49	0.43
35:CK:10:VAL:HB	35:CK:16:ALA:O	2.18	0.43
37:CM:4:PRO:HG3	37:CM:70:ASP:HA	2.01	0.43
38:CN:33:ILE:O	38:CN:33:ILE:HG23	2.19	0.43
43:CS:4:ILE:CD1	43:CS:4:ILE:N	2.80	0.43
47:CW:52:ASP:N	47:CW:52:ASP:OD1	2.52	0.43
49:CY:18:LEU:O	49:CY:22:LEU:HB2	2.18	0.43
25:DA:1092:C:H3'	25:DA:1093:G:C8	2.54	0.43
25:DA:1324:G:H1'	25:DA:1616:A:N6	2.33	0.43
25:DA:1406:U:N3	25:DA:1407:G:N7	2.66	0.43
25:DA:1540:G:H2'	25:DA:1541:C:H6	1.83	0.43
25:DA:1544:A:N6	25:DA:1545:A:C6	2.86	0.43
25:DA:1856:U:C4	25:DA:1857:G:C6	3.07	0.43
25:DA:2131:U:C5'	25:DA:2132:U:H5''	2.45	0.43
25:DA:2168:G:C6	25:DA:2169:A:C6	3.07	0.43
25:DA:2339:C:O2'	25:DA:2340:A:H5'	2.19	0.43
25:DA:2406:A:H2'	25:DA:2406:A:OP2	2.18	0.43
25:DA:1956:U:H1'	25:DA:2552:U:OP1	2.18	0.43
25:DA:2818:U:H4'	25:DA:2837:A:O4'	2.19	0.43
25:DA:546:U:O2	25:DA:546:U:H3'	2.19	0.43
25:DA:970:U:H1'	25:DA:985:C:OP1	2.18	0.43
27:DC:146:LYS:HB2	27:DC:149:LYS:HD2	1.99	0.43
27:DC:212:TRP:C	27:DC:214:GLY:H	2.22	0.43
28:DD:39:ASP:O	28:DD:43:ASP:CB	2.67	0.43
29:DE:10:SER:O	29:DE:11:ALA:O	2.37	0.43
30:DF:57:ALA:HB2	30:DF:64:PRO:HD3	2.01	0.43
30:DF:95:MET:O	30:DF:96:TRP:C	2.57	0.43
32:DH:8:LYS:O	32:DH:9:VAL:CB	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:133:ARG:CZ	33:DI:139:VAL:HB	2.49	0.43
33:DI:35:MET:SD	33:DI:39:LYS:HB2	2.58	0.43
33:DI:58:ILE:CD1	33:DI:66:PHE:CE1	3.02	0.43
35:DK:35:VAL:HG12	35:DK:36:GLY:N	2.33	0.43
35:DK:61:VAL:O	35:DK:61:VAL:HG13	2.19	0.43
25:DA:250:G:O5'	36:DL:59:ARG:HD2	2.19	0.43
25:DA:910:A:N7	37:DM:13:HIS:CD2	2.87	0.43
37:DM:78:LEU:HD23	37:DM:79:ALA:N	2.33	0.43
38:DN:48:VAL:O	38:DN:49:GLU:C	2.56	0.43
39:DO:40:ILE:CG2	39:DO:41:ALA:N	2.82	0.43
40:DP:100:ARG:C	40:DP:101:GLU:CG	2.85	0.43
40:DP:89:GLY:O	40:DP:112:ARG:HD3	2.19	0.43
40:DP:8:GLU:O	40:DP:54:LEU:CD2	2.67	0.43
41:DQ:13:HIS:O	41:DQ:14:LYS:C	2.57	0.43
42:DR:95:ASP:C	42:DR:96:VAL:HG13	2.38	0.43
45:DU:17:ASP:OD1	45:DU:38:ILE:O	2.37	0.43
48:DX:66:VAL:HG12	48:DX:67:LEU:N	2.34	0.43
49:DY:20:ASN:O	49:DY:21:LEU:O	2.37	0.43
49:DY:24:GLU:HB3	49:DY:28:LEU:HD11	2.00	0.43
1:AA:1178:G:H2'	1:AA:1180:A:OP2	2.18	0.43
1:AA:1190:G:OP1	3:AC:4:VAL:HG12	2.18	0.43
1:AA:1267:C:H2'	1:AA:1268:G:O4'	2.19	0.43
1:AA:1332:A:C2'	1:AA:1333:A:O5'	2.67	0.43
1:AA:1338:G:O5'	1:AA:1338:G:H8	2.02	0.43
1:AA:134:G:H1'	1:AA:325:A:C5	2.54	0.43
1:AA:141:G:C5	1:AA:142:G:N7	2.87	0.43
1:AA:257:G:H2'	1:AA:258:G:H8	1.84	0.43
1:AA:427:U:C4	1:AA:428:G:C6	3.07	0.43
1:AA:45:G:C2	1:AA:398:U:N3	2.87	0.43
1:AA:687:A:C5	1:AA:701:U:C5	3.07	0.43
1:AA:687:A:C8	1:AA:701:U:O4	2.72	0.43
1:AA:839:C:H6	1:AA:839:C:O5'	2.00	0.43
2:AB:145:ASN:OD1	2:AB:145:ASN:N	2.52	0.43
2:AB:163:ILE:HG23	2:AB:164:ASP:N	2.28	0.43
2:AB:175:ALA:CB	2:AB:182:VAL:CG2	2.96	0.43
2:AB:21:TYR:N	2:AB:21:TYR:CD1	2.87	0.43
3:AC:69:THR:HG21	3:AC:75:VAL:HG21	2.00	0.43
4:AD:25:ARG:HD2	4:AD:30:LYS:CE	2.45	0.43
4:AD:8:LEU:O	4:AD:10:LEU:N	2.52	0.43
1:AA:9:G:H5'	5:AE:107:GLY:HA3	2.00	0.43
5:AE:33:THR:HG21	5:AE:49:TYR:OH	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:18:VAL:O	6:AF:21:MET:N	2.51	0.43
7:AG:68:VAL:HG12	7:AG:134:VAL:HG12	2.01	0.43
9:AI:100:ALA:HB1	9:AI:102:PHE:CZ	2.54	0.43
9:AI:25:GLY:HA3	9:AI:58:GLU:HA	2.01	0.43
9:AI:90:ASP:OD2	9:AI:92:SER:N	2.52	0.43
10:AJ:40:ILE:HB	10:AJ:73:LEU:HB2	2.00	0.43
14:AN:87:ALA:HA	14:AN:90:ARG:NH1	2.33	0.43
17:AQ:47:ASP:O	17:AQ:48:GLU:C	2.56	0.43
22:AV:48:C:C2	22:AV:59:U:C1'	3.02	0.43
22:AV:59:U:H3'	22:AV:60:U:C5	2.53	0.43
22:AV:65:G:C2	22:AV:66:U:C4	3.06	0.43
24:AY:145:LYS:H	24:AY:145:LYS:CD	2.31	0.43
1:BA:1038:C:H2'	1:BA:1039:G:C8	2.53	0.43
1:BA:1134:G:C5	1:BA:1135:U:C5	3.07	0.43
1:BA:1155:A:C2'	1:BA:1156:G:O5'	2.66	0.43
1:BA:1159:U:C4	1:BA:1182:G:C5	3.07	0.43
1:BA:1216:A:C2	1:BA:1217:C:C4	3.07	0.43
1:BA:1277:C:H2'	1:BA:1278:G:H5''	2.01	0.43
1:BA:1312:G:C2	1:BA:1326:U:C2	3.07	0.43
1:BA:1338:G:H2'	1:BA:1339:A:H8	1.80	0.43
1:BA:1359:C:O2'	1:BA:1361:G:N7	2.51	0.43
1:BA:1406:U:H2'	1:BA:1407:C:O4'	2.19	0.43
1:BA:1416:G:C6	1:BA:1417:G:C4	3.06	0.43
1:BA:1461:G:H8	1:BA:1461:G:O5'	2.01	0.43
1:BA:1460:C:C2'	1:BA:1461:G:O5'	2.66	0.43
1:BA:1535:C:HO2'	1:BA:1536:C:P	2.36	0.43
1:BA:174:A:C4	1:BA:175:C:C6	3.07	0.43
1:BA:433:G:C6	1:BA:434:U:C4	3.06	0.43
1:BA:457:G:N7	1:BA:458:U:C5	2.87	0.43
1:BA:603:U:H2'	1:BA:604:G:O5'	2.18	0.43
1:BA:675:A:C4	1:BA:676:A:C8	3.07	0.43
1:BA:979:C:H2'	1:BA:979:C:O2	2.19	0.43
3:BC:178:ARG:HD2	3:BC:178:ARG:O	2.19	0.43
4:BD:117:VAL:HG22	4:BD:122:ILE:HG13	2.01	0.43
4:BD:165:GLU:O	4:BD:166:LYS:C	2.57	0.43
5:BE:106:ALA:CB	5:BE:124:ALA:HB3	2.48	0.43
5:BE:74:ALA:HB1	5:BE:81:GLN:NE2	2.34	0.43
6:BF:71:ILE:HG22	6:BF:72:ASP:N	2.34	0.43
6:BF:80:PHE:CD2	6:BF:81:ASN:N	2.86	0.43
7:BG:106:ALA:HB2	7:BG:133:ALA:HB2	2.00	0.43
14:BN:46:LEU:CD1	14:BN:49:GLN:HG2	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BO:34:GLN:O	15:BO:35:ILE:C	2.56	0.43
16:BP:40:ASN:OD1	16:BP:42:ILE:HB	2.18	0.43
6:BF:88:MET:CE	18:BR:63:TYR:HD2	2.29	0.43
1:BA:1220:G:H21	19:BS:53:GLY:HA2	1.83	0.43
21:BU:13:VAL:HG12	21:BU:15:LEU:HG	2.01	0.43
22:BV:6:G:O2'	22:BV:7:A:H5'	2.19	0.43
54:C3:54:LEU:HD23	54:C3:54:LEU:HA	1.79	0.43
25:CA:1059:G:OP2	25:CA:1060:U:C3'	2.67	0.43
25:CA:1078:U:C5'	25:CA:1079:C:OP1	2.67	0.43
25:CA:1280:G:H2'	25:CA:1281:G:O5'	2.18	0.43
25:CA:1370:C:O2'	25:CA:1811:G:O2'	2.37	0.43
25:CA:1467:U:C4	25:CA:1546:G:N2	2.87	0.43
25:CA:1684:G:C6	25:CA:1685:C:N4	2.87	0.43
25:CA:182:A:C5	25:CA:183:C:C4	3.07	0.43
25:CA:192:C:C2'	25:CA:193:U:H5'	2.47	0.43
25:CA:2183:A:C2	25:CA:2184:A:C5	3.07	0.43
25:CA:2458:G:O2'	25:CA:2460:U:O4	2.32	0.43
25:CA:357:C:H2'	25:CA:358:U:C6	2.54	0.43
25:CA:668:A:H2'	25:CA:670:A:H62	1.84	0.43
25:CA:834:G:H5'	54:C3:56:LEU:HD11	2.00	0.43
28:CD:142:VAL:CB	28:CD:143:PRO:CD	2.97	0.43
28:CD:177:VAL:O	28:CD:177:VAL:HG22	2.19	0.43
28:CD:38:LYS:O	28:CD:46:ARG:HA	2.19	0.43
28:CD:4:LEU:HD11	28:CD:96:ILE:CG2	2.49	0.43
29:CE:125:SER:OG	29:CE:126:VAL:N	2.52	0.43
33:CI:68:PHE:CG	33:CI:68:PHE:O	2.72	0.43
39:CO:77:ALA:O	39:CO:81:ARG:HG3	2.19	0.43
41:CQ:26:ALA:HB1	41:CQ:33:VAL:CG2	2.48	0.43
42:CR:21:ARG:NH1	42:CR:93:PHE:CZ	2.86	0.43
43:CS:74:ILE:O	43:CS:75:PHE:HB3	2.19	0.43
44:CT:51:PHE:N	44:CT:51:PHE:CD1	2.86	0.43
46:CV:24:ASN:O	46:CV:25:LYS:HG2	2.18	0.43
47:CW:64:LYS:HD3	47:CW:79:GLU:OE2	2.19	0.43
51:D0:28:SER:O	51:D0:37:HIS:CD2	2.71	0.43
51:D0:53:VAL:O	51:D0:55:ALA:N	2.52	0.43
25:DA:1091:G:C2	25:DA:1092:C:C4	3.07	0.43
25:DA:1139:G:H2'	25:DA:1140:C:O5'	2.19	0.43
25:DA:1174:U:H5'	25:DA:1175:A:OP2	2.18	0.43
25:DA:1206:G:C5	25:DA:1207:C:C5	3.07	0.43
25:DA:1347:A:C6	25:DA:1348:C:N3	2.86	0.43
25:DA:1419:A:C8	25:DA:1421:G:C6	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1483:G:C6	25:DA:1484:U:C5	3.07	0.43
25:DA:1494:A:C2	25:DA:1495:A:C8	3.06	0.43
25:DA:2280:G:C2'	25:DA:2281:A:H5'	2.49	0.43
25:DA:2323:G:C2'	25:DA:2324:U:H5'	2.49	0.43
25:DA:2577:A:H5''	25:DA:2578:G:H5'	1.99	0.43
25:DA:2672:U:C2'	25:DA:2673:G:O5'	2.66	0.43
25:DA:2705:A:H2	38:DN:64:ARG:NH1	2.16	0.43
25:DA:2784:U:H6	25:DA:2784:U:O5'	2.02	0.43
25:DA:303:G:H2'	25:DA:304:U:O4'	2.19	0.43
25:DA:61:C:OP2	49:DY:44:LYS:HB2	2.19	0.43
25:DA:645:C:O2	25:DA:645:C:C2'	2.65	0.43
25:DA:602:A:O2'	25:DA:655:A:N1	2.45	0.43
28:DD:105:LYS:C	28:DD:177:VAL:HG12	2.39	0.43
29:DE:104:ALA:O	29:DE:108:ILE:HG23	2.19	0.43
29:DE:96:VAL:HG12	29:DE:97:ASN:O	2.19	0.43
30:DF:64:PRO:HB3	30:DF:88:VAL:CG2	2.48	0.43
30:DF:94:ARG:HE	30:DF:94:ARG:HB2	1.63	0.43
32:DH:133:GLN:HA	32:DH:139:PHE:CE1	2.53	0.43
33:DI:3:LYS:CD	33:DI:4:VAL:H	2.32	0.43
36:DL:95:LEU:O	36:DL:98:ALA:N	2.52	0.43
38:DN:43:GLU:C	38:DN:45:ARG:N	2.71	0.43
39:DO:47:VAL:O	39:DO:48:LEU:HD23	2.18	0.43
39:DO:28:VAL:O	39:DO:95:SER:CB	2.67	0.43
43:DS:36:LEU:O	43:DS:37:THR:C	2.57	0.43
44:DT:1:MET:C	44:DT:2:ILE:HD12	2.39	0.43
48:DX:30:PRO:HB2	48:DX:32:LEU:HD13	2.00	0.43
50:DZ:9:THR:CG2	50:DZ:10:ARG:N	2.81	0.43
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.54	0.43
1:AA:1161:C:H2'	1:AA:1162:C:C5	2.52	0.43
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.52	0.43
1:AA:1235:U:C2'	1:AA:1236:A:O5'	2.66	0.43
1:AA:1426:G:C2'	1:AA:1427:C:O5'	2.66	0.43
1:AA:145:G:C2	1:AA:146:G:C8	3.07	0.43
1:AA:1537:U:H2'	1:AA:1538:C:O4'	2.19	0.43
1:AA:219:U:C2	1:AA:220:G:C8	3.07	0.43
1:AA:246:A:N3	1:AA:279:A:N6	2.67	0.43
1:AA:27:G:O2'	1:AA:28:A:O5'	2.34	0.43
1:AA:404:G:H2'	1:AA:405:U:O4'	2.18	0.43
1:AA:408:A:H2'	1:AA:409:U:H5'	1.99	0.43
1:AA:429:U:C4'	1:AA:430:A:O5'	2.67	0.43
1:AA:432:A:C2'	1:AA:433:G:O5'	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:57:G:H2'	1:AA:58:C:O4'	2.18	0.43
1:AA:623:C:N4	1:AA:624:C:N4	2.67	0.43
1:AA:662:U:H2'	1:AA:663:A:C8	2.54	0.43
1:AA:711:G:C2'	1:AA:712:A:H5'	2.49	0.43
1:AA:737:C:H2'	1:AA:738:C:O5'	2.19	0.43
2:AB:47:PRO:O	2:AB:50:ASN:HB2	2.19	0.43
3:AC:133:MET:O	3:AC:137:VAL:HG23	2.19	0.43
3:AC:140:ALA:HB1	3:AC:148:ILE:HD12	2.00	0.43
3:AC:26:LYS:CD	3:AC:26:LYS:H	2.15	0.43
4:AD:97:LEU:HD23	4:AD:117:VAL:HG21	2.01	0.43
5:AE:105:ILE:CD1	5:AE:123:LEU:HB3	2.49	0.43
6:AF:35:LYS:CE	6:AF:65:GLU:OE2	2.67	0.43
8:AH:31:LEU:HD13	8:AH:31:LEU:O	2.18	0.43
11:AK:83:VAL:O	11:AK:83:VAL:HG12	2.18	0.43
16:AP:40:ASN:HA	16:AP:41:PRO:HD2	1.91	0.43
16:AP:7:ALA:O	16:AP:9:HIS:N	2.51	0.43
18:AR:40:PRO:HG2	18:AR:43:ILE:HG12	2.00	0.43
21:AU:18:PHE:O	21:AU:21:SER:HB2	2.18	0.43
24:AY:18:VAL:HG22	24:AY:172:ILE:HG13	2.00	0.43
1:BA:1015:G:H2'	1:BA:1016:A:O4'	2.18	0.43
1:BA:1103:C:N3	1:BA:1104:G:C8	2.87	0.43
1:BA:1103:C:C2	1:BA:1104:G:C8	3.07	0.43
1:BA:1160:G:N2	1:BA:1161:C:C2	2.87	0.43
1:BA:1192:C:N4	1:BA:1193:G:C5	2.87	0.43
1:BA:1194:U:H2'	1:BA:1195:C:C6	2.53	0.43
1:BA:1232:U:OP1	9:BI:125:GLN:NE2	2.52	0.43
1:BA:1241:G:H8	1:BA:1241:G:O5'	2.01	0.43
1:BA:1255:G:C6	1:BA:1279:G:C5	3.06	0.43
1:BA:1363:A:C5	1:BA:1365:G:N1	2.87	0.43
1:BA:1365:G:C5	1:BA:1366:C:C5	3.07	0.43
1:BA:1501:C:C6	1:BA:1504:G:C8	3.07	0.43
1:BA:171:A:C2	1:BA:172:A:C4	3.07	0.43
1:BA:495:A:C2	1:BA:496:A:C6	3.06	0.43
2:BB:69:VAL:HB	2:BB:162:VAL:CG1	2.49	0.43
3:BC:189:HIS:O	3:BC:190:THR:O	2.36	0.43
4:BD:141:VAL:HG12	4:BD:180:THR:OG1	2.19	0.43
6:BF:88:MET:HE3	18:BR:63:TYR:CD2	2.50	0.43
7:BG:124:SER:C	7:BG:126:ALA:N	2.70	0.43
8:BH:20:ASN:O	8:BH:22:ALA:N	2.52	0.43
8:BH:55:LYS:N	8:BH:56:PRO:HD3	2.34	0.43
1:BA:1343:G:O2'	9:BI:122:ARG:HD2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:24:GLU:C	12:BL:26:CYS:N	2.65	0.43
13:BM:100:ARG:HD2	13:BM:103:THR:OG1	2.19	0.43
13:BM:46:GLU:HG3	13:BM:46:GLU:O	2.19	0.43
13:BM:50:GLY:C	13:BM:52:ILE:H	2.21	0.43
15:BO:58:MET:O	15:BO:59:VAL:C	2.56	0.43
17:BQ:16:MET:O	17:BQ:17:GLU:CB	2.66	0.43
19:BS:18:VAL:CG2	19:BS:43:MET:HG2	2.49	0.43
19:BS:30:LEU:HB2	19:BS:48:ILE:HG22	2.00	0.43
19:BS:38:THR:HG22	19:BS:68:HIS:O	2.19	0.43
21:BU:10:PRO:O	21:BU:10:PRO:HD2	2.19	0.43
21:BU:8:ASN:N	21:BU:11:PHE:CE2	2.80	0.43
43:CS:19:LEU:HB3	51:C0:21:LEU:HD12	2.00	0.43
25:CA:124:G:H3'	53:C2:19:ARG:HH21	1.84	0.43
54:C3:3:ILE:HG21	54:C3:62:PRO:HG3	2.00	0.43
25:CA:1069:A:O2'	25:CA:1070:A:H2'	2.19	0.43
25:CA:1301:A:C4	25:CA:1303:G:N7	2.86	0.43
25:CA:1586:A:O5'	25:CA:1586:A:H8	2.02	0.43
25:CA:1799:G:O6	27:CC:177:SER:HB3	2.18	0.43
25:CA:186:G:N2	25:CA:187:G:C5	2.87	0.43
25:CA:188:G:H8	25:CA:188:G:H5''	1.83	0.43
25:CA:1981:A:O5'	25:CA:1982:U:OP2	2.37	0.43
25:CA:185:G:H4'	25:CA:218:A:H4'	1.99	0.43
25:CA:740:C:O2	25:CA:740:C:H2'	2.18	0.43
30:CF:146:ASP:HB2	30:CF:149:ARG:NH2	2.34	0.43
33:CI:41:PHE:CD2	33:CI:42:ASN:OD1	2.72	0.43
33:CI:54:ILE:HG21	33:CI:71:LYS:O	2.19	0.43
33:CI:56:VAL:HG21	33:CI:70:THR:HA	2.01	0.43
36:CL:29:LYS:O	36:CL:31:GLY:N	2.51	0.43
36:CL:85:VAL:HB	36:CL:94:THR:CG2	2.48	0.43
38:CN:13:ASN:ND2	38:CN:16:HIS:H	2.17	0.43
41:CQ:39:ILE:HG22	41:CQ:40:LYS:N	2.34	0.43
44:CT:87:LEU:HD23	44:CT:87:LEU:HA	1.78	0.43
45:CU:71:ILE:HD13	45:CU:82:VAL:CG2	2.49	0.43
45:CU:98:ASN:C	45:CU:100:GLU:N	2.70	0.43
48:CX:34:SER:HA	48:CX:48:LEU:O	2.19	0.43
51:D0:52:LYS:HE3	51:D0:55:ALA:CA	2.49	0.43
25:DA:1142:A:N3	25:DA:1144:A:C8	2.87	0.43
25:DA:1650:A:H2'	25:DA:1651:G:O4'	2.19	0.43
25:DA:1713:A:C2	25:DA:1716:U:C6	3.07	0.43
25:DA:1747:U:O2'	25:DA:1748:C:H5'	2.19	0.43
25:DA:1788:C:O5'	25:DA:1788:C:H6	2.02	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1794:A:C1'	25:DA:1900:A:C2	3.02	0.43
25:DA:1810:A:H8	25:DA:1810:A:O5'	2.01	0.43
25:DA:2052:A:O4'	28:DD:147:GLY:HA3	2.19	0.43
25:DA:2146:C:C4'	25:DA:2147:A:OP1	2.67	0.43
25:DA:2335:A:N7	25:DA:2337:G:C4	2.84	0.43
25:DA:2383:G:C4	25:DA:2384:U:C5	3.07	0.43
25:DA:2400:G:N1	25:DA:2401:U:O2	2.52	0.43
25:DA:2533:U:OP1	25:DA:2665:A:O2'	2.35	0.43
25:DA:265:A:H2	25:DA:427:U:O2	2.02	0.43
25:DA:2782:G:C2	25:DA:2783:U:C6	3.07	0.43
25:DA:2798:U:O5'	25:DA:2798:U:H6	2.02	0.43
25:DA:300:A:H5''	25:DA:301:G:OP2	2.19	0.43
25:DA:365:U:N3	25:DA:366:C:C4	2.87	0.43
25:DA:381:G:C6	25:DA:382:A:N7	2.87	0.43
25:DA:464:U:C4	25:DA:465:G:C6	3.07	0.43
25:DA:574:A:C8	60:DA:3579:HOH:O	2.71	0.43
25:DA:59:U:C6	25:DA:59:U:H3'	2.52	0.43
25:DA:807:U:C2'	25:DA:808:G:H5'	2.49	0.43
25:DA:872:U:H2'	25:DA:873:C:C6	2.54	0.43
25:DA:900:A:C5	25:DA:901:C:C6	3.07	0.43
25:DA:973:A:H5'	25:DA:1188:U:C1'	2.49	0.43
56:DB:9:G:N2	56:DB:10:G:H1'	2.34	0.43
29:DE:188:MET:HE3	29:DE:192:ALA:HB1	2.00	0.43
30:DF:51:ASN:O	30:DF:53:ALA:N	2.52	0.43
31:DG:128:THR:O	31:DG:129:GLU:CG	2.65	0.43
31:DG:88:LEU:HB2	31:DG:128:THR:HG22	2.01	0.43
33:DI:123:ALA:C	33:DI:125:THR:H	2.23	0.43
35:DK:35:VAL:CG1	35:DK:106:GLU:HG2	2.49	0.43
36:DL:135:ILE:O	36:DL:140:GLY:CA	2.67	0.43
36:DL:41:ARG:O	36:DL:42:SER:C	2.57	0.43
37:DM:56:ALA:C	37:DM:58:LYS:N	2.72	0.43
38:DN:48:VAL:C	38:DN:50:PRO:HD2	2.39	0.43
39:DO:36:TYR:O	39:DO:37:ALA:HB2	2.17	0.43
40:DP:96:LEU:O	40:DP:98:TYR:N	2.52	0.43
50:DZ:16:LEU:HB3	50:DZ:17:PRO:CD	2.49	0.43
1:AA:1154:G:H2'	1:AA:1154:G:N3	2.32	0.42
1:AA:1260:G:H4'	1:AA:1283:U:O2'	2.19	0.42
1:AA:212:G:H2'	1:AA:213:G:H8	1.84	0.42
1:AA:240:G:C2	1:AA:287:U:O2	2.70	0.42
1:AA:290:C:C6	1:AA:290:C:C3'	3.02	0.42
1:AA:439:U:HO2'	1:AA:440:C:P	2.41	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:441:A:C2'	1:AA:442:G:H5'	2.49	0.42
1:AA:456:A:C5	1:AA:457:G:N7	2.87	0.42
1:AA:459:A:C8	1:AA:459:A:OP2	2.72	0.42
1:AA:495:A:C2	1:AA:496:A:C6	3.07	0.42
1:AA:603:U:O2'	1:AA:604:G:H5'	2.18	0.42
1:AA:736:C:H2'	1:AA:736:C:O2	2.19	0.42
1:AA:825:A:C6	1:AA:826:C:C4	3.07	0.42
1:AA:938:A:H8	1:AA:938:A:OP2	2.02	0.42
3:AC:10:ARG:O	3:AC:13:ILE:HG12	2.19	0.42
4:AD:158:LEU:O	4:AD:159:GLU:O	2.37	0.42
6:AF:10:VAL:HG13	6:AF:11:HIS:H	1.82	0.42
8:AH:1:SER:HB3	8:AH:2:MET:HG3	2.00	0.42
10:AJ:17:LEU:HD23	10:AJ:18:ILE:N	2.33	0.42
10:AJ:88:MET:O	10:AJ:89:ARG:CB	2.67	0.42
12:AL:57:THR:CG2	12:AL:58:ASN:N	2.82	0.42
13:AM:89:ARG:HB3	13:AM:96:VAL:HG22	2.01	0.42
17:AQ:16:MET:HB2	17:AQ:19:SER:CB	2.49	0.42
17:AQ:69:THR:O	17:AQ:69:THR:HG22	2.19	0.42
18:AR:33:THR:HG22	18:AR:37:LYS:N	2.34	0.42
1:AA:1314:C:P	19:AS:5:LYS:HZ3	2.41	0.42
20:AT:26:MET:HG3	20:AT:27:MET:N	2.33	0.42
22:AV:65:G:C2	22:AV:66:U:C2	3.07	0.42
1:BA:1050:G:H2'	1:BA:1051:C:H6	1.81	0.42
1:BA:1158:C:N3	1:BA:1160:G:N7	2.67	0.42
1:BA:1161:C:O2'	1:BA:1162:C:H5'	2.18	0.42
1:BA:1313:U:OP2	19:BS:5:LYS:CA	2.62	0.42
1:BA:142:G:C6	1:BA:143:A:C5	3.07	0.42
1:BA:149:A:C2	1:BA:150:U:C1'	3.02	0.42
1:BA:523:A:H61	12:BL:49:ARG:HH12	1.67	0.42
1:BA:853:C:H2'	1:BA:854:U:O4'	2.19	0.42
1:BA:979:C:C5	1:BA:980:C:C4	3.06	0.42
2:BB:170:ILE:O	2:BB:174:GLU:HG3	2.18	0.42
2:BB:49:PHE:C	2:BB:52:ALA:HB3	2.39	0.42
2:BB:56:LEU:HD13	2:BB:57:ASN:H	1.83	0.42
3:BC:25:THR:HG22	3:BC:26:LYS:CD	2.49	0.42
3:BC:80:GLY:O	3:BC:81:GLU:C	2.57	0.42
3:BC:95:GLY:O	3:BC:96:VAL:CG1	2.67	0.42
4:BD:169:TRP:CZ3	4:BD:189:ASP:HB3	2.54	0.42
6:BF:47:LEU:HD11	6:BF:51:ILE:HG23	2.00	0.42
6:BF:67:PRO:C	6:BF:69:GLU:N	2.70	0.42
7:BG:27:ASN:O	7:BG:28:ILE:C	2.56	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:65:PHE:CG	8:BH:66:GLN:N	2.86	0.42
10:BJ:26:VAL:CG1	10:BJ:27:GLU:N	2.82	0.42
11:BK:13:LYS:O	11:BK:13:LYS:CD	2.67	0.42
13:BM:73:SER:HB3	13:BM:77:LYS:HZ1	1.84	0.42
14:BN:23:ARG:HG2	14:BN:26:LEU:HD12	2.00	0.42
16:BP:35:ARG:HG2	16:BP:36:VAL:N	2.34	0.42
17:BQ:12:VAL:HG13	17:BQ:21:VAL:HG13	1.99	0.42
20:BT:19:HIS:HD2	20:BT:20:ASN:ND2	2.17	0.42
20:BT:53:MET:O	20:BT:54:GLN:C	2.58	0.42
51:C0:10:SER:O	51:C0:11:LYS:C	2.56	0.42
25:CA:1421:G:C2'	25:CA:1422:G:O5'	2.67	0.42
25:CA:2126:A:C8	25:CA:2162:G:C2	3.07	0.42
25:CA:2218:G:C4	25:CA:2219:U:C5	3.07	0.42
25:CA:2303:G:C4	25:CA:2304:G:N7	2.86	0.42
25:CA:324:A:C2'	25:CA:325:G:O5'	2.67	0.42
25:CA:409:G:H2'	25:CA:410:G:C8	2.54	0.42
25:CA:457:A:O4'	25:CA:459:U:C6	2.72	0.42
25:CA:514:A:H2'	25:CA:515:A:O4'	2.19	0.42
25:CA:697:G:C2	25:CA:766:U:O2	2.72	0.42
26:CB:77:U:O2'	26:CB:78:A:H5'	2.19	0.42
27:CC:159:THR:O	27:CC:194:VAL:HG12	2.19	0.42
27:CC:6:LYS:HA	27:CC:7:PRO:HD3	1.91	0.42
28:CD:97:SER:C	28:CD:99:GLU:H	2.22	0.42
29:CE:171:ASP:O	29:CE:172:ALA:C	2.58	0.42
31:CG:102:ILE:HG22	31:CG:103:ASN:N	2.34	0.42
31:CG:75:VAL:C	31:CG:77:GLY:N	2.67	0.42
33:CI:5:GLN:HG2	33:CI:60:VAL:O	2.19	0.42
33:CI:97:VAL:HG12	33:CI:98:GLY:N	2.34	0.42
35:CK:113:MET:C	35:CK:115:ILE:N	2.68	0.42
36:CL:59:ARG:NH1	60:CL:206:HOH:O	2.51	0.42
37:CM:47:GLU:O	37:CM:48:ALA:C	2.56	0.42
35:CK:108:ARG:HH12	40:CP:34:GLY:CA	2.32	0.42
40:CP:32:VAL:CG1	40:CP:34:GLY:O	2.68	0.42
41:CQ:35:PHE:C	41:CQ:37:ALA:H	2.22	0.42
43:CS:85:ILE:HG22	43:CS:86:MET:N	2.32	0.42
44:CT:30:ILE:CD1	44:CT:32:LEU:HD21	2.48	0.42
49:CY:39:GLN:HB2	49:CY:41:HIS:ND1	2.33	0.42
49:CY:28:LEU:HB3	49:CY:43:LEU:HD21	2.01	0.42
25:DA:1063:G:P	25:DA:1063:G:H8	2.42	0.42
25:DA:1168:G:N2	25:DA:1182:G:H1'	2.33	0.42
25:DA:130:C:H2'	25:DA:131:A:O5'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1338:G:H2'	25:DA:1339:G:C5'	2.49	0.42
25:DA:1341:G:C6	44:DT:84:TYR:CE2	3.07	0.42
25:DA:1400:U:O2'	25:DA:1401:G:H5'	2.19	0.42
25:DA:1429:G:N3	25:DA:1568:G:N2	2.66	0.42
25:DA:1483:G:C6	25:DA:1484:U:C4	3.07	0.42
25:DA:1476:U:C4	25:DA:1514:G:N2	2.87	0.42
25:DA:1557:C:H2'	25:DA:1558:C:C6	2.54	0.42
25:DA:1299:G:O6	25:DA:1639:C:H5''	2.19	0.42
25:DA:1874:C:H2'	25:DA:1875:G:O4'	2.19	0.42
25:DA:185:G:C6	25:DA:212:G:N1	2.87	0.42
25:DA:962:G:N2	25:DA:2250:G:H1	2.17	0.42
25:DA:22:C:H3'	25:DA:22:C:C6	2.54	0.42
25:DA:2491:U:H5'	25:DA:2570:G:H5'	2.01	0.42
25:DA:2495:G:C2'	25:DA:2496:C:H5'	2.49	0.42
25:DA:352:A:H2'	25:DA:353:C:O4'	2.18	0.42
25:DA:396:G:C5	25:DA:397:U:C5	3.07	0.42
25:DA:447:A:C6	25:DA:454:A:C5	3.07	0.42
27:DC:100:ARG:NH1	27:DC:100:ARG:HG3	2.34	0.42
29:DE:105:LEU:HA	29:DE:108:ILE:HG23	2.01	0.42
25:DA:2305:U:C5	30:DF:151:LEU:HA	2.54	0.42
31:DG:69:ALA:O	31:DG:73:SER:HB3	2.19	0.42
32:DH:17:ASP:N	32:DH:17:ASP:OD1	2.51	0.42
33:DI:23:VAL:CG2	33:DI:27:LEU:HD23	2.49	0.42
35:DK:122:VAL:OXT	35:DK:122:VAL:HG12	2.19	0.42
35:DK:53:LYS:HG2	35:DK:56:ASP:OD1	2.19	0.42
36:DL:125:LEU:N	36:DL:125:LEU:HD12	2.34	0.42
39:DO:67:ASN:H	39:DO:70:ALA:HB3	1.84	0.42
39:DO:80:GLU:HA	39:DO:83:LEU:HD12	2.01	0.42
40:DP:47:ILE:HA	40:DP:96:LEU:HB2	2.01	0.42
41:DQ:98:ALA:HB2	41:DQ:105:PHE:CD2	2.54	0.42
43:DS:15:GLN:HG3	51:D0:16:ARG:NH1	2.34	0.42
44:DT:1:MET:O	44:DT:2:ILE:CG1	2.64	0.42
1:AA:108:G:N3	1:AA:108:G:O4'	2.52	0.42
1:AA:1133:G:C4	1:AA:1134:G:C8	3.06	0.42
1:AA:1431:A:C6	1:AA:1432:G:O6	2.72	0.42
1:AA:1454:G:C2	1:AA:1455:G:C8	3.06	0.42
1:AA:36:C:H2'	1:AA:37:U:O4'	2.19	0.42
1:AA:446:G:N2	1:AA:489:C:C2	2.88	0.42
1:AA:50:A:N6	1:AA:361:G:H4'	2.34	0.42
1:AA:73:C:C2	1:AA:74:A:C8	3.07	0.42
1:AA:972:C:H4'	10:AJ:59:LYS:HE3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:106:VAL:O	2:AB:110:ILE:HD13	2.19	0.42
2:AB:110:ILE:CG1	2:AB:150:ILE:CG1	2.97	0.42
1:AA:831:A:OP1	2:AB:20:ARG:HG3	2.19	0.42
2:AB:94:ARG:HH12	2:AB:96:LEU:HA	1.84	0.42
3:AC:72:PRO:CG	3:AC:104:GLU:HG3	2.48	0.42
3:AC:140:ALA:N	3:AC:142:ARG:HB3	2.34	0.42
3:AC:151:GLU:HG2	3:AC:198:LYS:HB2	2.02	0.42
3:AC:81:GLU:O	3:AC:84:GLU:HB3	2.19	0.42
4:AD:117:VAL:O	4:AD:130:ASN:HA	2.19	0.42
4:AD:152:SER:O	4:AD:155:LYS:HB2	2.20	0.42
4:AD:14:GLU:HB3	4:AD:59:LYS:HG3	2.01	0.42
5:AE:100:GLU:CG	5:AE:100:GLU:O	2.67	0.42
5:AE:113:VAL:O	5:AE:115:GLU:N	2.52	0.42
5:AE:84:VAL:HG21	5:AE:142:GLY:O	2.19	0.42
6:AF:17:GLN:OE1	6:AF:21:MET:HG3	2.19	0.42
1:AA:674:G:OP1	6:AF:86:ARG:NH2	2.52	0.42
8:AH:6:ILE:O	8:AH:10:LEU:CD2	2.65	0.42
9:AI:18:VAL:HG22	9:AI:64:ILE:CG2	2.49	0.42
10:AJ:84:VAL:O	10:AJ:88:MET:HG2	2.18	0.42
14:AN:17:ASP:C	14:AN:19:TYR:N	2.71	0.42
14:AN:68:GLY:O	14:AN:69:ARG:O	2.37	0.42
20:AT:84:LYS:HD2	20:AT:84:LYS:HA	1.84	0.42
22:AV:65:G:H2'	22:AV:66:U:H6	1.84	0.42
1:BA:1007:U:C2'	1:BA:1008:U:H5''	2.46	0.42
1:BA:1099:G:C4	1:BA:1100:C:C6	3.07	0.42
1:BA:1101:A:N3	1:BA:1102:A:H1'	2.34	0.42
1:BA:1159:U:N3	1:BA:1182:G:C4	2.87	0.42
1:BA:1297:G:H4'	1:BA:1298:U:O5'	2.19	0.42
1:BA:1404:C:O5'	1:BA:1404:C:H6	2.02	0.42
1:BA:26:A:H61	1:BA:558:G:H2'	1.85	0.42
1:BA:247:G:C6	1:BA:278:G:N1	2.87	0.42
1:BA:340:U:H2'	1:BA:340:U:O2	2.18	0.42
1:BA:414:A:C2	1:BA:415:A:C4	3.08	0.42
1:BA:491:G:O2'	1:BA:492:C:H5'	2.19	0.42
1:BA:511:C:N1	1:BA:512:U:C5	2.86	0.42
1:BA:939:G:C2	1:BA:940:C:C2	3.07	0.42
1:BA:97:G:H2'	1:BA:98:A:O5'	2.18	0.42
2:BB:98:GLY:CA	2:BB:101:THR:CG2	2.97	0.42
2:BB:181:PRO:O	2:BB:182:VAL:HG23	2.19	0.42
2:BB:53:LEU:HD12	2:BB:219:THR:CG2	2.49	0.42
3:BC:150:VAL:HG13	3:BC:199:VAL:HB	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:81:GLN:HE22	5:BE:148:SER:HA	1.84	0.42
6:BF:74:LEU:O	6:BF:77:THR:N	2.52	0.42
7:BG:119:LEU:O	7:BG:123:LEU:CG	2.68	0.42
8:BH:31:LEU:HD11	8:BH:35:ILE:HG13	2.01	0.42
9:BI:14:SER:HB3	9:BI:74:GLN:HA	2.00	0.42
12:BL:40:THR:HA	12:BL:41:PRO:HD3	1.75	0.42
16:BP:71:VAL:O	16:BP:75:ILE:HG13	2.19	0.42
1:BA:1320:C:N3	19:BS:35:ARG:NH1	2.66	0.42
25:CA:1098:A:N6	25:CA:1099:G:H1	2.16	0.42
25:CA:118:A:N3	25:CA:178:G:H1'	2.33	0.42
25:CA:1297:C:O2'	25:CA:1302:A:N1	2.46	0.42
25:CA:1394:U:C4	25:CA:1395:A:C6	3.08	0.42
25:CA:1717:A:C2'	25:CA:1718:G:O5'	2.67	0.42
25:CA:1738:G:HO2'	25:CA:1739:A:H8	1.65	0.42
25:CA:1936:A:H2	25:CA:1943:U:N3	2.17	0.42
25:CA:196:A:C4	25:CA:805:G:C6	3.07	0.42
25:CA:1979:U:H2'	25:CA:1980:G:C5'	2.48	0.42
25:CA:2300:C:N3	25:CA:2317:A:C2	2.87	0.42
25:CA:1956:U:H1'	25:CA:2552:U:OP1	2.20	0.42
27:CC:15:VAL:HG13	27:CC:16:VAL:N	2.34	0.42
28:CD:127:PHE:HZ	28:CD:160:LYS:HB2	1.84	0.42
28:CD:67:HIS:O	28:CD:68:PHE:C	2.57	0.42
29:CE:148:ILE:HB	29:CE:169:VAL:HG22	2.01	0.42
30:CF:157:THR:HG21	30:CF:159:ALA:HB3	1.98	0.42
35:CK:113:MET:O	35:CK:115:ILE:N	2.52	0.42
35:CK:95:ILE:O	35:CK:95:ILE:HG22	2.19	0.42
46:CV:29:ILE:HD13	46:CV:38:LEU:O	2.19	0.42
48:CX:63:ILE:CD1	48:CX:67:LEU:HG	2.50	0.42
49:CY:53:VAL:CG1	49:CY:53:VAL:O	2.67	0.42
52:D1:45:HIS:O	52:D1:46:VAL:HG23	2.18	0.42
25:DA:1049:C:C2'	25:DA:1050:A:H5'	2.48	0.42
25:DA:1118:C:N4	25:DA:1119:U:C4	2.87	0.42
25:DA:1137:G:C2'	25:DA:1138:G:O5'	2.68	0.42
25:DA:1142:A:C4	25:DA:1144:A:C8	3.07	0.42
25:DA:1190:G:OP1	36:DL:32:GLY:CA	2.66	0.42
25:DA:1315:C:H2'	25:DA:1316:U:O5'	2.19	0.42
25:DA:1378:A:O2'	25:DA:1380:G:N7	2.42	0.42
25:DA:1403:A:C4	25:DA:1404:C:C5	3.07	0.42
25:DA:1760:C:H2'	25:DA:1761:C:H5'	2.01	0.42
25:DA:1817:G:H2'	25:DA:1817:G:N3	2.34	0.42
25:DA:1855:U:H2'	25:DA:1856:U:H5'	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1994:C:OP1	28:DD:132:ALA:CB	2.68	0.42
25:DA:2126:A:C4	25:DA:2162:G:C6	3.07	0.42
25:DA:2209:G:C2	25:DA:2216:G:N1	2.87	0.42
25:DA:2438:U:O3'	25:DA:2439:A:H3'	2.19	0.42
25:DA:2707:U:O2	38:DN:71:ARG:NH1	2.53	0.42
25:DA:930:G:H1'	50:DZ:24:LEU:CD2	2.49	0.42
27:DC:134:ILE:HG22	27:DC:135:PRO:HD2	2.01	0.42
27:DC:220:ARG:O	27:DC:221:GLY:C	2.57	0.42
27:DC:244:VAL:CG2	27:DC:248:GLY:HA2	2.49	0.42
28:DD:108:ASP:OD1	28:DD:207:VAL:HG12	2.19	0.42
29:DE:131:THR:O	29:DE:133:LEU:N	2.52	0.42
29:DE:88:ARG:HB3	29:DE:89:PRO:HD2	2.00	0.42
32:DH:131:SER:C	32:DH:132:PHE:CD2	2.92	0.42
33:DI:39:LYS:HD3	33:DI:39:LYS:HA	1.84	0.42
29:DE:26:ALA:CB	36:DL:9:ALA:HB2	2.49	0.42
37:DM:108:VAL:HG11	37:DM:112:LEU:HD23	2.01	0.42
37:DM:53:MET:HE3	37:DM:103:TYR:CG	2.54	0.42
39:DO:69:ASP:C	39:DO:71:ALA:N	2.73	0.42
42:DR:21:ARG:HB2	42:DR:21:ARG:HE	1.75	0.42
50:DZ:2:LYS:N	50:DZ:2:LYS:CD	2.82	0.42
1:AA:1182:G:H5''	1:AA:1183:U:H5'	2.01	0.42
1:AA:1215:G:C2	1:AA:1216:A:N9	2.88	0.42
1:AA:1246:A:C5	1:AA:1247:U:C4	3.07	0.42
1:AA:946:A:O2'	1:AA:1333:A:N3	2.47	0.42
1:AA:1368:A:C2	1:AA:1369:C:C6	3.06	0.42
1:AA:1531:A:C2'	1:AA:1532:U:H5'	2.50	0.42
1:AA:499:A:C4'	1:AA:500:G:OP1	2.65	0.42
1:AA:300:A:H2	1:AA:566:G:O6	2.03	0.42
1:AA:610:U:C2'	1:AA:611:C:O5'	2.68	0.42
1:AA:779:C:O2'	1:AA:780:A:H5'	2.18	0.42
1:AA:805:C:H2'	1:AA:806:C:H5'	2.01	0.42
1:AA:844:G:C4	1:AA:846:G:O2'	2.72	0.42
1:AA:850:U:H2'	1:AA:851:G:C5'	2.48	0.42
1:AA:877:G:H21	8:AH:1:SER:N	2.17	0.42
1:AA:894:G:C2	1:AA:895:G:C8	3.07	0.42
1:AA:979:C:O5'	1:AA:980:C:OP2	2.37	0.42
1:AA:977:A:O2'	1:AA:979:C:OP2	2.32	0.42
4:AD:2:ARG:HH21	4:AD:114:ARG:HD3	1.84	0.42
4:AD:186:GLU:O	4:AD:187:ARG:C	2.56	0.42
4:AD:18:LEU:HD12	4:AD:20:LEU:HD11	2.02	0.42
4:AD:57:LYS:HG3	4:AD:58:GLN:N	2.33	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:82:HIS:CE1	5:AE:146:MET:CG	3.02	0.42
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.33	0.42
9:AI:46:VAL:HG23	9:AI:47:VAL:N	2.34	0.42
9:AI:9:GLY:CA	9:AI:80:HIS:HB3	2.49	0.42
10:AJ:47:GLU:HB2	10:AJ:49:PHE:CE1	2.54	0.42
10:AJ:63:ASP:OD2	14:AN:98:LYS:CD	2.67	0.42
11:AK:127:ARG:CG	11:AK:127:ARG:HH11	2.30	0.42
12:AL:85:ARG:CZ	12:AL:87:LYS:HB3	2.49	0.42
13:AM:38:ILE:HG22	13:AM:39:ALA:N	2.34	0.42
16:AP:67:ILE:HG13	16:AP:71:VAL:HG11	2.01	0.42
24:AY:61:GLU:O	24:AY:61:GLU:CG	2.68	0.42
1:BA:1143:G:C6	1:BA:1144:G:C6	3.07	0.42
1:BA:1191:A:C8	1:BA:1191:A:O5'	2.72	0.42
1:BA:1233:G:H2'	1:BA:1234:C:C6	2.54	0.42
1:BA:1314:C:OP2	19:BS:5:LYS:HG2	2.19	0.42
1:BA:1317:C:N3	14:BN:53:ARG:CD	2.83	0.42
1:BA:15:G:C4	1:BA:16:A:C8	3.08	0.42
1:BA:346:G:H3'	1:BA:346:G:N3	2.33	0.42
1:BA:390:U:H2'	1:BA:391:G:H8	1.84	0.42
1:BA:394:G:C5	1:BA:395:C:C5	3.08	0.42
1:BA:679:C:O2	1:BA:712:A:C2	2.73	0.42
1:BA:960:U:C5	1:BA:1225:A:C8	3.07	0.42
4:BD:104:MET:SD	4:BD:142:VAL:HG13	2.59	0.42
1:BA:1240:U:OP2	7:BG:115:MET:HB3	2.19	0.42
7:BG:14:ASP:OD2	7:BG:15:PRO:N	2.52	0.42
7:BG:41:ILE:HA	7:BG:44:SER:HB3	2.01	0.42
9:BI:11:ARG:HB3	9:BI:77:ALA:HB2	2.01	0.42
9:BI:20:ILE:HD12	9:BI:85:ALA:CB	2.50	0.42
10:BJ:87:LEU:HD22	10:BJ:88:MET:N	2.34	0.42
11:BK:106:ILE:HD13	11:BK:107:THR:N	2.33	0.42
11:BK:30:ILE:CG1	11:BK:30:ILE:O	2.60	0.42
11:BK:19:VAL:HB	11:BK:34:THR:HG23	2.01	0.42
13:BM:101:THR:C	13:BM:103:THR:N	2.73	0.42
15:BO:44:GLU:HG2	15:BO:45:HIS:H	1.85	0.42
16:BP:79:ASN:O	16:BP:80:LYS:NZ	2.52	0.42
17:BQ:7:LEU:HB2	17:BQ:60:ILE:HG21	2.01	0.42
17:BQ:60:ILE:HG12	17:BQ:61:ARG:H	1.84	0.42
18:BR:70:THR:HG23	18:BR:71:ASP:N	2.33	0.42
1:BA:957:U:H4'	19:BS:78:THR:O	2.19	0.42
21:BU:25:ALA:O	21:BU:27:VAL:N	2.51	0.42
25:CA:1045:C:C3'	25:CA:1046:A:C5'	2.96	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1443:U:H2'	25:CA:1444:G:O4'	2.19	0.42
25:CA:1730:C:O2'	25:CA:1731:G:C4	2.59	0.42
25:CA:212:G:H2'	25:CA:213:A:O4'	2.20	0.42
25:CA:2144:G:HO2'	25:CA:2147:A:H61	1.67	0.42
25:CA:2668:G:H2'	25:CA:2669:G:O5'	2.19	0.42
26:CB:33:G:C2'	26:CB:34:A:C5'	2.94	0.42
26:CB:96:G:C2'	26:CB:97:C:H5'	2.49	0.42
27:CC:176:ARG:NH2	27:CC:176:ARG:CG	2.81	0.42
27:CC:221:GLY:HA2	27:CC:224:MET:HG3	2.00	0.42
27:CC:257:ARG:HG3	27:CC:258:SER:N	2.33	0.42
27:CC:265:PHE:HD1	27:CC:265:PHE:N	2.16	0.42
28:CD:142:VAL:HB	28:CD:143:PRO:HD2	2.02	0.42
28:CD:2:ILE:CD1	28:CD:90:PHE:CZ	3.02	0.42
31:CG:146:ASP:O	31:CG:149:ALA:HB3	2.19	0.42
31:CG:25:ILE:O	31:CG:25:ILE:HG22	2.19	0.42
25:CA:2751:G:C5	31:CG:2:ARG:HD3	2.54	0.42
33:CI:56:VAL:HG21	33:CI:70:THR:CA	2.49	0.42
36:CL:109:LYS:CE	36:CL:128:THR:HG22	2.46	0.42
36:CL:127:VAL:CG1	36:CL:128:THR:N	2.80	0.42
37:CM:110:GLU:HG3	37:CM:110:GLU:O	2.18	0.42
25:CA:1279:G:O4'	38:CN:31:HIS:CE1	2.73	0.42
38:CN:52:ILE:O	38:CN:53:THR:C	2.57	0.42
39:CO:66:GLY:C	39:CO:102:ARG:NH2	2.72	0.42
39:CO:88:LYS:O	39:CO:89:ASP:CB	2.67	0.42
42:CR:12:HIS:CE1	42:CR:22:LEU:CD2	3.02	0.42
44:CT:56:GLU:HB2	44:CT:88:LYS:HA	2.01	0.42
48:CX:63:ILE:HD12	48:CX:63:ILE:O	2.19	0.42
25:DA:1097:U:C3'	25:DA:1098:A:C5'	2.97	0.42
25:DA:1331:G:C5	25:DA:1333:G:N7	2.88	0.42
25:DA:1392:A:N6	25:DA:1393:A:N6	2.67	0.42
25:DA:150:U:H2'	25:DA:151:C:C6	2.55	0.42
25:DA:1526:C:C2	25:DA:1527:G:C8	3.07	0.42
25:DA:1339:G:N2	25:DA:1603:A:H1'	2.34	0.42
25:DA:1655:A:H3'	25:DA:1656:C:C6	2.54	0.42
25:DA:1657:U:H2'	25:DA:1658:C:C6	2.54	0.42
25:DA:1657:U:H2'	25:DA:1658:C:H6	1.84	0.42
25:DA:1717:A:C2'	25:DA:1718:G:H5'	2.50	0.42
25:DA:1927:A:C6	25:DA:1928:A:C6	3.08	0.42
25:DA:2049:G:H2'	25:DA:2050:C:H5'	2.01	0.42
25:DA:189:G:H2'	25:DA:205:G:N2	2.33	0.42
25:DA:2109:U:H4'	25:DA:2110:G:OP2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2201:G:C6	25:DA:2223:G:N1	2.87	0.42
25:DA:2221:G:C6	25:DA:2222:C:C4	3.07	0.42
25:DA:2221:G:O2'	25:DA:2222:C:H5'	2.19	0.42
25:DA:2369:A:H2'	25:DA:2370:G:O4'	2.19	0.42
25:DA:2414:G:C2	25:DA:2415:G:C8	3.07	0.42
25:DA:2507:C:O5'	25:DA:2507:C:H6	2.02	0.42
25:DA:2517:C:C6	25:DA:2542:A:C8	3.08	0.42
25:DA:1050:A:H1'	25:DA:2751:G:H21	1.84	0.42
25:DA:377:G:H2'	25:DA:378:C:O4'	2.18	0.42
25:DA:386:G:H4'	25:DA:387:U:OP2	2.19	0.42
25:DA:471:A:O5'	25:DA:471:A:H8	2.02	0.42
25:DA:480:A:C2'	25:DA:480:A:N3	2.79	0.42
25:DA:481:G:H1'	25:DA:507:A:N1	2.33	0.42
25:DA:96:C:H2'	25:DA:97:C:H6	1.84	0.42
56:DB:25:U:O5'	56:DB:25:U:H6	2.03	0.42
27:DC:234:GLY:O	27:DC:235:GLU:HB2	2.20	0.42
27:DC:93:VAL:O	27:DC:93:VAL:CG2	2.67	0.42
28:DD:20:VAL:HG12	28:DD:21:SER:N	2.33	0.42
30:DF:35:LEU:HD21	30:DF:90:LEU:HD11	2.01	0.42
25:DA:2299:U:OP2	30:DF:70:ARG:NH2	2.52	0.42
31:DG:24:THR:O	31:DG:25:ILE:HG13	2.18	0.42
31:DG:59:ASP:OD2	31:DG:63:GLN:CG	2.62	0.42
35:DK:15:GLY:HA2	35:DK:47:ILE:HD11	2.00	0.42
37:DM:83:GLY:O	37:DM:84:LYS:HB2	2.19	0.42
38:DN:70:THR:OG1	38:DN:71:ARG:N	2.52	0.42
39:DO:48:LEU:HD12	39:DO:87:ILE:HD11	2.01	0.42
41:DQ:7:VAL:HG12	41:DQ:8:ILE:N	2.34	0.42
42:DR:39:LEU:O	42:DR:40:MET:HB2	2.18	0.42
42:DR:40:MET:C	42:DR:41:ILE:HG13	2.39	0.42
43:DS:66:ILE:O	43:DS:69:LEU:HB3	2.20	0.42
57:DW:14:ALA:HB3	57:DW:16:ARG:HH21	1.84	0.42
48:DX:1:SER:C	48:DX:3:VAL:HG23	2.40	0.42
49:DY:16:THR:HG23	49:DY:20:ASN:HD21	1.84	0.42
1:AA:1268:G:N1	1:AA:1269:A:C6	2.87	0.42
1:AA:1293:C:N3	1:AA:1294:G:C8	2.88	0.42
1:AA:1296:C:C4'	1:AA:1302:C:N4	2.83	0.42
1:AA:1314:C:OP2	19:AS:5:LYS:CD	2.67	0.42
1:AA:1310:G:C2	1:AA:1328:C:C2	3.07	0.42
1:AA:1329:A:H2'	1:AA:1329:A:N3	2.34	0.42
1:AA:259:G:N1	1:AA:260:G:C4	2.87	0.42
1:AA:399:G:O2'	1:AA:400:C:H5'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:451:A:N6	1:AA:481:G:C5'	2.83	0.42
1:AA:528:C:H5'	1:AA:529:G:OP2	2.19	0.42
1:AA:542:G:N1	1:AA:543:U:C4	2.88	0.42
1:AA:57:G:H2'	1:AA:58:C:C6	2.55	0.42
1:AA:77:A:H8	1:AA:77:A:OP2	2.03	0.42
1:AA:782:A:H2'	1:AA:783:C:O4'	2.19	0.42
1:AA:849:G:C2'	1:AA:850:U:O5'	2.68	0.42
1:AA:923:A:H2	1:AA:1395:C:C2	2.37	0.42
1:AA:999:C:H2'	1:AA:1000:A:H8	1.84	0.42
2:AB:143:LEU:O	2:AB:147:LEU:HB2	2.20	0.42
2:AB:40:ILE:HG21	2:AB:201:GLY:N	2.34	0.42
2:AB:187:ASP:OD2	2:AB:202:ASN:HA	2.19	0.42
2:AB:205:ALA:C	2:AB:206:ILE:HD13	2.39	0.42
2:AB:56:LEU:HB2	2:AB:183:PHE:CE1	2.54	0.42
2:AB:77:GLU:HG3	2:AB:78:ALA:N	2.35	0.42
3:AC:119:ILE:HG22	3:AC:123:LEU:HD12	2.01	0.42
4:AD:16:THR:CG2	4:AD:17:ASP:H	2.30	0.42
4:AD:88:ASN:O	4:AD:92:LEU:HD23	2.20	0.42
6:AF:20:GLY:O	6:AF:21:MET:C	2.58	0.42
7:AG:11:ILE:CD1	7:AG:23:ALA:HB3	2.49	0.42
1:AA:1367:C:P	9:AI:113:LYS:HZ1	2.42	0.42
9:AI:20:ILE:CG2	9:AI:60:LEU:HD12	2.49	0.42
11:AK:112:VAL:O	11:AK:113:THR:C	2.54	0.42
11:AK:34:THR:HB	11:AK:40:ALA:HA	2.01	0.42
13:AM:113:LYS:HB3	13:AM:114:PRO:CD	2.46	0.42
14:AN:92:GLU:H	14:AN:92:GLU:HG2	1.77	0.42
20:AT:68:LYS:HB2	20:AT:69:ASN:OD1	2.19	0.42
23:AX:8:A:H2'	23:AX:9:G:O4'	2.19	0.42
24:AY:52:LEU:O	24:AY:52:LEU:HD12	2.20	0.42
24:AY:67:LYS:O	24:AY:67:LYS:HG2	2.18	0.42
1:BA:1048:G:H2'	1:BA:1050:G:C8	2.54	0.42
1:BA:1162:C:O2	1:BA:1175:G:C2	2.72	0.42
1:BA:1269:A:C8	1:BA:1270:G:O4'	2.73	0.42
1:BA:1461:G:O2'	1:BA:1462:C:H5'	2.20	0.42
1:BA:181:A:C2	1:BA:195:A:C5	3.07	0.42
1:BA:980:C:C2'	1:BA:981:U:H5'	2.49	0.42
4:BD:30:LYS:H	4:BD:30:LYS:CD	2.32	0.42
5:BE:93:VAL:HG11	5:BE:110:MET:HE3	2.01	0.42
5:BE:36:THR:O	5:BE:47:PHE:HA	2.18	0.42
6:BF:11:HIS:ND1	6:BF:12:PRO:CD	2.83	0.42
6:BF:70:VAL:O	6:BF:71:ILE:C	2.57	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:117:LEU:O	7:BG:121:ASN:N	2.52	0.42
7:BG:16:LYS:HD3	7:BG:17:PHE:CD1	2.54	0.42
9:BI:81:GLY:O	9:BI:82:ILE:C	2.58	0.42
14:BN:88:ALA:N	14:BN:93:ILE:HD13	2.35	0.42
3:BC:9:ILE:HD12	14:BN:98:LYS:HG3	2.01	0.42
15:BO:35:ILE:HD12	15:BO:62:ARG:NH1	2.34	0.42
19:BS:51:HIS:ND1	19:BS:55:GLN:O	2.52	0.42
21:BU:35:GLU:HB3	21:BU:36:PHE:H	1.71	0.42
22:BV:61:C:H2'	22:BV:62:C:C6	2.54	0.42
25:CA:1467:U:C4	25:CA:1546:G:N3	2.87	0.42
25:CA:1735:A:C2	25:CA:1736:U:N1	2.87	0.42
25:CA:1770:G:C6	25:CA:1983:G:C5	3.08	0.42
25:CA:2140:G:C2	25:CA:2141:G:C8	3.08	0.42
25:CA:2144:G:HO2'	25:CA:2147:A:N6	2.18	0.42
25:CA:2179:C:C2'	25:CA:2180:U:H5'	2.49	0.42
25:CA:2430:A:H5'	25:CA:2431:U:OP2	2.19	0.42
25:CA:2636:C:C2'	25:CA:2636:C:O2	2.63	0.42
25:CA:1050:A:C2	25:CA:2751:G:C4	3.07	0.42
25:CA:2784:U:H2'	25:CA:2785:C:H6	1.83	0.42
25:CA:380:G:H2'	25:CA:381:G:O4'	2.19	0.42
25:CA:528:A:C2	25:CA:2043:C:C4'	3.00	0.42
27:CC:156:SER:O	27:CC:159:THR:HG23	2.18	0.42
29:CE:176:ASP:OD1	29:CE:177:PRO:N	2.53	0.42
29:CE:65:THR:HG23	29:CE:65:THR:O	2.19	0.42
30:CF:111:ARG:HG2	30:CF:112:ASP:HB2	2.01	0.42
30:CF:24:VAL:HG22	30:CF:24:VAL:O	2.20	0.42
31:CG:164:ALA:C	31:CG:166:GLU:N	2.69	0.42
31:CG:24:THR:C	31:CG:25:ILE:HG12	2.39	0.42
33:CI:111:THR:O	33:CI:112:LYS:C	2.57	0.42
33:CI:5:GLN:CG	33:CI:5:GLN:O	2.67	0.42
38:CN:45:ARG:HB2	38:CN:45:ARG:HE	1.60	0.42
26:CB:51:G:O6	39:CO:32:PRO:HB3	2.19	0.42
40:CP:29:VAL:HG13	40:CP:79:VAL:CG1	2.48	0.42
41:CQ:26:ALA:O	41:CQ:27:ARG:C	2.56	0.42
45:CU:31:GLY:O	45:CU:66:VAL:HG12	2.20	0.42
47:CW:45:ALA:H	47:CW:77:SER:HB3	1.84	0.42
25:CA:102:U:C6	49:CY:2:LYS:HD2	2.54	0.42
25:DA:1215:G:H5''	41:DQ:7:VAL:HG21	2.01	0.42
25:DA:136:G:C6	25:DA:137:U:O4	2.71	0.42
25:DA:1374:G:C6	25:DA:1375:U:N3	2.88	0.42
25:DA:1408:G:O6	25:DA:1594:U:O2	2.36	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1520:U:O4	25:DA:1521:G:C6	2.72	0.42
25:DA:1675:C:H2'	25:DA:1676:A:H5'	2.01	0.42
25:DA:1738:G:O2'	25:DA:1739:A:H8	2.03	0.42
25:DA:1748:C:O2'	25:DA:1749:A:C5'	2.67	0.42
25:DA:2199:A:H2'	25:DA:2200:C:C6	2.53	0.42
25:DA:2204:G:C6	25:DA:2205:A:C5	3.07	0.42
25:DA:2309:A:C2'	25:DA:2310:C:O5'	2.68	0.42
25:DA:2338:C:N3	25:DA:2339:C:C5	2.87	0.42
25:DA:2416:C:N3	25:DA:2417:C:C5	2.88	0.42
25:DA:2850:A:C2	25:DA:2851:A:C4	3.08	0.42
25:DA:318:C:H2'	25:DA:319:G:O5'	2.18	0.42
25:DA:638:G:C5	25:DA:639:U:C4	3.07	0.42
56:DB:69:G:C2	56:DB:70:C:H1'	2.53	0.42
27:DC:131:MET:HA	27:DC:134:ILE:HD12	2.02	0.42
27:DC:153:LEU:O	27:DC:154:ALA:HB3	2.19	0.42
28:DD:179:ARG:NH1	40:DP:7:LEU:HD21	2.34	0.42
29:DE:134:LEU:O	29:DE:134:LEU:HD12	2.19	0.42
31:DG:119:GLY:C	31:DG:120:ILE:HD13	2.38	0.42
32:DH:1:MET:HE2	32:DH:23:ALA:CB	2.49	0.42
32:DH:70:GLU:O	32:DH:72:ILE:N	2.52	0.42
35:DK:68:GLY:C	35:DK:69:VAL:HG13	2.40	0.42
36:DL:133:ALA:O	36:DL:136:GLU:HB2	2.19	0.42
36:DL:95:LEU:HB2	36:DL:101:ILE:HG12	2.01	0.42
37:DM:3:GLN:O	37:DM:3:GLN:HG2	2.19	0.42
37:DM:54:THR:HA	37:DM:57:VAL:HG22	2.00	0.42
38:DN:49:GLU:O	38:DN:50:PRO:C	2.58	0.42
39:DO:79:ALA:HB1	39:DO:113:ALA:HB3	2.02	0.42
39:DO:76:LYS:O	39:DO:79:ALA:HB3	2.20	0.42
43:DS:86:MET:HA	43:DS:87:PRO:HD3	1.86	0.42
44:DT:8:LEU:O	44:DT:9:LYS:C	2.57	0.42
45:DU:38:ILE:HG22	45:DU:39:ASN:N	2.35	0.42
1:AA:1056:U:O2	1:AA:1057:G:C8	2.73	0.42
1:AA:1102:A:H2'	1:AA:1103:C:H5'	1.99	0.42
1:AA:1434:A:O5'	1:AA:1434:A:H8	2.02	0.42
1:AA:298:A:N6	1:AA:299:G:C2	2.88	0.42
1:AA:626:G:H2'	1:AA:627:G:O4'	2.20	0.42
1:AA:903:G:H2'	1:AA:904:U:C6	2.53	0.42
2:AB:110:ILE:HG12	2:AB:150:ILE:CG1	2.49	0.42
2:AB:14:HIS:HB3	2:AB:208:ALA:HB2	2.01	0.42
2:AB:30:ILE:HD11	2:AB:38:HIS:CG	2.55	0.42
4:AD:120:LYS:HB2	4:AD:128:VAL:HG21	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:110:MET:O	5:AE:114:LEU:HB2	2.20	0.42
7:AG:28:ILE:HD12	7:AG:100:MET:CE	2.50	0.42
8:AH:5:PRO:O	8:AH:8:ASP:CB	2.64	0.42
5:AE:154:ALA:CB	8:AH:65:PHE:CE2	3.03	0.42
8:AH:78:SER:HA	8:AH:84:ILE:CG1	2.50	0.42
8:AH:87:ARG:H	8:AH:90:GLU:HB2	1.83	0.42
14:AN:81:ARG:O	14:AN:82:ILE:C	2.58	0.42
16:AP:44:SER:OG	16:AP:46:LYS:HD2	2.20	0.42
18:AR:40:PRO:HG2	18:AR:43:ILE:CG1	2.50	0.42
18:AR:22:TYR:HB2	18:AR:57:ALA:O	2.20	0.42
19:AS:30:LEU:HD12	19:AS:30:LEU:HA	1.86	0.42
1:AA:1539:C:P	21:AU:17:ARG:NE	2.92	0.42
21:AU:25:ALA:HB3	23:AX:9:G:H4'	2.01	0.42
21:AU:44:ARG:O	21:AU:45:LYS:C	2.58	0.42
24:AY:157:SER:O	24:AY:159:ASP:N	2.53	0.42
1:BA:1219:A:N6	1:BA:1220:G:O6	2.53	0.42
1:BA:1304:G:H2'	1:BA:1305:G:C1'	2.49	0.42
1:BA:1346:A:C8	1:BA:1348:U:C2	3.07	0.42
1:BA:1436:U:H2'	1:BA:1437:A:C8	2.54	0.42
1:BA:1465:A:H2'	1:BA:1466:C:C6	2.54	0.42
1:BA:1496:C:H2'	1:BA:1497:G:O4'	2.19	0.42
1:BA:1537:U:H5''	1:BA:1538:C:P	2.58	0.42
1:BA:429:U:H3'	4:BD:8:LEU:CD2	2.49	0.42
1:BA:596:A:C2	1:BA:645:G:N3	2.86	0.42
1:BA:648:A:C2	1:BA:649:A:C4	3.07	0.42
1:BA:803:G:OP1	60:BA:1802:HOH:O	2.21	0.42
1:BA:841:C:H2'	1:BA:843:U:C5'	2.49	0.42
1:BA:883:C:O2'	1:BA:884:U:H5'	2.20	0.42
2:BB:223:GLY:O	2:BB:225:SER:N	2.52	0.42
1:BA:1055:A:H2'	3:BC:155:ARG:HE	1.84	0.42
3:BC:26:LYS:NZ	3:BC:26:LYS:HB3	2.34	0.42
5:BE:100:GLU:HA	5:BE:121:ASN:HB3	2.02	0.42
5:BE:68:ARG:H	5:BE:68:ARG:HE	1.66	0.42
6:BF:45:ARG:HD2	6:BF:59:TYR:CE2	2.55	0.42
7:BG:124:SER:O	7:BG:126:ALA:N	2.53	0.42
7:BG:26:VAL:O	7:BG:27:ASN:C	2.57	0.42
8:BH:33:VAL:O	8:BH:35:ILE:N	2.53	0.42
9:BI:24:ASN:HA	9:BI:58:GLU:O	2.18	0.42
9:BI:88:GLU:OE2	9:BI:88:GLU:C	2.58	0.42
10:BJ:42:LEU:CD1	10:BJ:73:LEU:HB2	2.49	0.42
11:BK:84:MET:HE2	11:BK:112:VAL:HG11	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:13:HIS:H	13:BM:16:ILE:HD12	1.83	0.42
13:BM:92:ARG:HH11	13:BM:92:ARG:CG	2.32	0.42
16:BP:22:ALA:HA	16:BP:33:ILE:HD12	2.02	0.42
17:BQ:30:HIS:NE2	17:BQ:32:ILE:HD13	2.33	0.42
17:BQ:35:LYS:CG	17:BQ:37:ILE:CD1	2.98	0.42
18:BR:24:ASP:HB3	18:BR:27:THR:OG1	2.19	0.42
21:BU:19:LYS:C	21:BU:21:SER:N	2.73	0.42
25:CA:1084:A:C6	25:CA:1085:A:N6	2.88	0.42
25:CA:11:C:H2'	25:CA:12:U:C5'	2.49	0.42
25:CA:1392:A:C6	25:CA:1393:A:C6	3.07	0.42
25:CA:1419:A:N7	25:CA:1421:G:C6	2.87	0.42
25:CA:1445:G:C5	25:CA:1446:C:C4	3.08	0.42
25:CA:1483:G:N2	25:CA:1507:C:C2	2.87	0.42
25:CA:1590:A:H2'	25:CA:1591:A:C8	2.55	0.42
25:CA:1599:U:OP2	44:CT:40:LYS:HG3	2.19	0.42
25:CA:1751:U:H2'	25:CA:1752:C:C6	2.55	0.42
25:CA:1827:U:C2'	25:CA:1828:G:O5'	2.68	0.42
25:CA:1979:U:HO2'	25:CA:1980:G:H5'	1.82	0.42
25:CA:2130:U:O2	25:CA:2158:A:H2	2.02	0.42
25:CA:2164:C:H3'	25:CA:2165:C:C5	2.55	0.42
25:CA:2170:A:N3	25:CA:2171:A:N7	2.67	0.42
25:CA:2243:U:O2'	25:CA:2244:U:H5'	2.20	0.42
25:CA:2294:G:C5	25:CA:2295:C:C5	3.07	0.42
25:CA:2339:C:H2'	25:CA:2340:A:H8	1.84	0.42
25:CA:2379:G:H2'	25:CA:2380:C:C6	2.54	0.42
25:CA:2585:U:O2'	25:CA:2586:U:O5'	2.33	0.42
25:CA:31:C:O2'	25:CA:32:C:H5'	2.19	0.42
25:CA:566:U:H2'	25:CA:567:U:O4'	2.19	0.42
25:CA:924:G:H2'	25:CA:925:A:O4'	2.19	0.42
28:CD:101:PHE:HE2	28:CD:203:VAL:HG12	1.81	0.42
36:CL:75:ALA:HB3	36:CL:108:ALA:HB2	2.01	0.42
38:CN:108:ALA:HA	38:CN:109:PRO:HD3	1.91	0.42
40:CP:22:GLY:O	40:CP:109:ILE:HD11	2.18	0.42
25:CA:812:C:H4'	41:CQ:12:ARG:HH22	1.85	0.42
42:CR:20:VAL:HG13	42:CR:21:ARG:N	2.32	0.42
42:CR:39:LEU:CD1	42:CR:39:LEU:N	2.83	0.42
44:CT:8:LEU:CD2	49:CY:22:LEU:HA	2.50	0.42
48:CX:17:ARG:HD2	48:CX:17:ARG:HA	1.76	0.42
49:CY:16:THR:HA	49:CY:19:LEU:HD12	2.02	0.42
49:CY:39:GLN:O	49:CY:40:SER:C	2.55	0.42
25:DA:1003:G:N2	25:DA:1004:U:C2	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1020:A:C2	25:DA:1141:U:C2	3.08	0.42
25:DA:1115:G:C2	25:DA:1116:G:C5	3.07	0.42
25:DA:1176:U:C6	25:DA:1177:G:C5	3.07	0.42
25:DA:157:C:C6	25:DA:157:C:H3'	2.54	0.42
25:DA:1579:A:N1	25:DA:1580:A:C2	2.87	0.42
25:DA:1596:A:O2'	25:DA:1597:A:H5'	2.19	0.42
25:DA:2016:U:H1'	51:D0:2:VAL:CG2	2.50	0.42
25:DA:2093:G:H2'	25:DA:2094:A:O5'	2.19	0.42
25:DA:2094:A:N1	25:DA:2196:C:C2	2.88	0.42
25:DA:2249:U:C4'	25:DA:2250:G:OP2	2.68	0.42
25:DA:2413:G:H2'	25:DA:2414:G:O5'	2.18	0.42
25:DA:2484:G:OP1	37:DM:44:ARG:HD3	2.19	0.42
25:DA:2555:U:C2'	25:DA:2556:C:H5'	2.49	0.42
25:DA:2677:G:O2'	25:DA:2678:C:H5'	2.19	0.42
25:DA:36:G:C5	25:DA:37:C:C5	3.07	0.42
25:DA:411:G:P	25:DA:2407:A:OP2	2.77	0.42
25:DA:478:A:C6	25:DA:480:A:C6	3.08	0.42
25:DA:639:U:H2'	25:DA:640:C:C6	2.53	0.42
25:DA:747:U:C5	25:DA:2613:U:C5	3.07	0.42
25:DA:780:G:H21	25:DA:783:A:H62	1.68	0.42
25:DA:783:A:C4	25:DA:785:G:H1'	2.54	0.42
25:DA:800:A:OP1	25:DA:800:A:H8	2.02	0.42
25:DA:928:A:H2	50:DZ:46:MET:HE1	1.85	0.42
56:DB:111:U:O2	56:DB:112:G:N7	2.53	0.42
56:DB:39:A:C2	56:DB:44:G:C4	3.08	0.42
27:DC:66:PHE:CD2	27:DC:155:ARG:NH2	2.88	0.42
30:DF:24:VAL:HG13	30:DF:25:MET:N	2.34	0.42
31:DG:39:ALA:HB2	31:DG:57:TYR:CG	2.55	0.42
32:DH:96:THR:O	32:DH:97:ARG:C	2.57	0.42
34:DJ:119:PHE:O	34:DJ:119:PHE:CD1	2.72	0.42
36:DL:41:ARG:O	36:DL:43:GLY:N	2.53	0.42
38:DN:24:MET:O	38:DN:25:ALA:C	2.58	0.42
39:DO:9:ARG:CG	39:DO:10:ARG:N	2.82	0.42
39:DO:92:PHE:HB2	39:DO:117:PHE:CE1	2.54	0.42
40:DP:12:MET:HG3	40:DP:54:LEU:HD22	2.02	0.42
42:DR:15:SER:O	42:DR:18:GLN:HB2	2.19	0.42
25:DA:480:A:P	45:DU:43:LYS:HZ3	2.42	0.42
46:DV:9:ARG:HG3	46:DV:40:ILE:O	2.19	0.42
57:DW:34:VAL:HG21	57:DW:76:ILE:CD1	2.50	0.42
48:DX:15:ASN:HA	48:DX:24:THR:O	2.19	0.42
49:DY:14:LEU:O	49:DY:17:GLU:HB3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1114:C:O2	1:AA:1115:U:C6	2.72	0.42
1:AA:1255:G:H5''	1:AA:1256:A:OP1	2.19	0.42
1:AA:1325:C:O2'	1:AA:1326:U:H5'	2.18	0.42
1:AA:1367:C:N3	1:AA:1368:A:C8	2.87	0.42
1:AA:1416:G:C6	1:AA:1417:G:C5	3.08	0.42
1:AA:164:G:N2	1:AA:165:G:H1'	2.34	0.42
1:AA:195:A:H1'	1:AA:222:C:O2'	2.20	0.42
1:AA:406:G:C8	1:AA:495:A:C4	3.07	0.42
1:AA:64:G:C8	1:AA:99:C:C4	3.08	0.42
1:AA:93:U:C2'	1:AA:94:G:C5'	2.97	0.42
1:AA:976:G:C8	1:AA:1358:U:C2	3.07	0.42
1:AA:978:A:C6	1:AA:1318:A:C6	3.08	0.42
2:AB:159:ALA:O	2:AB:160:LEU:CB	2.68	0.42
2:AB:167:HIS:ND1	2:AB:167:HIS:O	2.52	0.42
2:AB:175:ALA:C	2:AB:177:ASN:N	2.73	0.42
2:AB:95:TRP:O	2:AB:97:GLY:N	2.52	0.42
3:AC:152:VAL:CG2	3:AC:156:LEU:CD2	2.96	0.42
8:AH:36:ALA:O	8:AH:45:ILE:HD11	2.20	0.42
9:AI:6:TYR:CE2	9:AI:17:ARG:HB2	2.55	0.42
10:AJ:10:LEU:HB2	10:AJ:72:ARG:CB	2.41	0.42
10:AJ:53:ILE:HB	10:AJ:62:ARG:N	2.33	0.42
10:AJ:59:LYS:HD2	10:AJ:60:ASP:N	2.35	0.42
11:AK:125:LYS:CD	11:AK:125:LYS:N	2.82	0.42
15:AO:24:THR:O	15:AO:25:GLU:C	2.58	0.42
15:AO:59:VAL:HG11	25:CA:715:A:C8	2.55	0.42
18:AR:41:SER:N	18:AR:51:GLN:NE2	2.66	0.42
24:AY:140:VAL:O	24:AY:143:LEU:N	2.53	0.42
24:AY:59:THR:CG2	24:AY:60:VAL:N	2.81	0.42
1:BA:1085:U:O4'	1:BA:1094:G:C6	2.73	0.42
1:BA:1225:A:H2'	1:BA:1226:C:C4	2.53	0.42
1:BA:1239:A:H2	1:BA:1297:G:C2	2.37	0.42
1:BA:1310:G:C6	1:BA:1311:A:N7	2.88	0.42
1:BA:1483:A:H1'	25:DA:1948:G:H1'	2.02	0.42
1:BA:1538:C:H3'	1:BA:1538:C:C6	2.54	0.42
1:BA:16:A:C4	1:BA:17:U:C6	3.08	0.42
1:BA:59:A:C4	1:BA:331:G:N2	2.87	0.42
1:BA:59:A:C5	1:BA:354:G:C6	3.07	0.42
1:BA:394:G:H2'	1:BA:395:C:C6	2.53	0.42
1:BA:457:G:C6	1:BA:458:U:N3	2.87	0.42
1:BA:626:G:H2'	1:BA:627:G:O5'	2.19	0.42
1:BA:737:C:O2'	1:BA:738:C:H5'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:837:U:O5'	1:BA:837:U:H6	2.03	0.42
1:BA:840:C:C4	1:BA:842:U:H5'	2.55	0.42
1:BA:842:U:O2'	1:BA:846:G:N1	2.52	0.42
3:BC:41:TYR:OH	3:BC:45:GLU:CG	2.67	0.42
4:BD:150:LYS:O	4:BD:150:LYS:HG3	2.19	0.42
7:BG:109:LYS:O	7:BG:110:ARG:C	2.57	0.42
8:BH:10:LEU:HD22	8:BH:10:LEU:HA	1.85	0.42
8:BH:41:GLU:CD	8:BH:41:GLU:C	2.77	0.42
8:BH:92:PRO:HG3	8:BH:124:ILE:HD12	2.01	0.42
9:BI:29:ILE:O	9:BI:29:ILE:HG23	2.20	0.42
11:BK:113:THR:HA	11:BK:114:PRO:HD3	1.83	0.42
11:BK:20:ALA:CB	11:BK:33:ILE:CD1	2.98	0.42
11:BK:27:ASN:HB3	11:BK:56:LYS:HE3	2.02	0.42
6:BF:86:ARG:HD3	18:BR:63:TYR:CE1	2.54	0.42
19:BS:44:ILE:HD11	19:BS:63:ASP:HA	2.01	0.42
20:BT:50:PHE:O	20:BT:53:MET:N	2.52	0.42
21:BU:8:ASN:C	21:BU:11:PHE:CE2	2.93	0.42
23:BX:5:A:H2'	23:BX:6:G:H5'	2.01	0.42
54:C3:53:ASP:O	54:C3:54:LEU:C	2.57	0.42
25:CA:1056:G:O2'	25:CA:1086:A:H8	2.02	0.42
25:CA:1085:A:C4	25:CA:1086:A:N1	2.88	0.42
25:CA:1090:A:N1	25:CA:1091:G:C5	2.87	0.42
25:CA:1104:C:O2	25:CA:1105:U:C5	2.72	0.42
25:CA:1117:C:C2'	25:CA:1118:C:H5'	2.50	0.42
25:CA:114:U:H2'	25:CA:115:C:C6	2.55	0.42
25:CA:2111:U:C4	25:CA:2145:C:O2	2.73	0.42
25:CA:2839:G:C6	25:CA:2840:C:C4	3.07	0.42
25:CA:2852:G:C4	25:CA:2853:C:C5	3.07	0.42
25:CA:2875:C:C2'	25:CA:2876:G:O5'	2.68	0.42
25:CA:273:G:C2	25:CA:365:U:O2	2.73	0.42
25:CA:587:C:C2	36:CL:33:ARG:NH2	2.87	0.42
25:CA:779:U:H2'	25:CA:780:G:O5'	2.19	0.42
25:CA:751:A:C6	25:CA:789:A:C5	3.07	0.42
25:CA:846:U:C2'	25:CA:847:U:OP2	2.67	0.42
26:CB:8:C:H2'	26:CB:9:G:O4'	2.20	0.42
28:CD:48:ILE:HG13	28:CD:50:VAL:HG13	2.02	0.42
30:CF:56:LEU:HD12	30:CF:64:PRO:HB3	2.00	0.42
31:CG:8:VAL:HG12	31:CG:49:LEU:CB	2.48	0.42
32:CH:66:ASN:HA	32:CH:138:VAL:HG11	2.02	0.42
29:CE:108:ILE:CD1	36:CL:2:ARG:HH12	2.32	0.42
37:CM:62:LYS:O	37:CM:105:MET:HA	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CO:72:ALA:HA	39:CO:109:ALA:HB2	2.01	0.42
40:CP:21:PRO:HA	40:CP:46:VAL:HG12	2.01	0.42
40:CP:52:ARG:CG	40:CP:52:ARG:NH1	2.80	0.42
41:CQ:63:ARG:O	41:CQ:64:ILE:C	2.58	0.42
49:CY:9:LYS:H	49:CY:12:GLU:HG3	1.83	0.42
52:D1:18:HIS:HE2	52:D1:20:TYR:HE2	1.68	0.42
55:D4:9:LYS:HG2	55:D4:14:CYS:HB3	2.01	0.42
25:DA:1050:A:H1'	25:DA:2751:G:N2	2.35	0.42
25:DA:1188:U:C2'	25:DA:1189:A:O5'	2.67	0.42
25:DA:1421:G:H2'	25:DA:1422:G:H5'	2.01	0.42
25:DA:145:C:H3'	25:DA:145:C:C6	2.54	0.42
25:DA:149:A:C5	25:DA:150:U:C5	3.08	0.42
25:DA:1675:C:OP2	60:DA:3772:HOH:O	2.21	0.42
25:DA:1692:U:O2	25:DA:1696:G:C2	2.73	0.42
25:DA:1866:A:N3	25:DA:1876:A:C6	2.88	0.42
25:DA:1885:A:H2'	25:DA:1886:U:H5'	2.00	0.42
25:DA:1891:G:C5	25:DA:1892:C:C4	3.07	0.42
25:DA:1936:A:H2	25:DA:1943:U:C4	2.36	0.42
25:DA:2146:C:C5'	25:DA:2147:A:OP1	2.66	0.42
25:DA:2162:G:P	25:DA:2162:G:H3'	2.59	0.42
25:DA:2179:C:C2	25:DA:2180:U:C5	3.07	0.42
25:DA:1955:U:H2'	25:DA:2551:C:O2'	2.19	0.42
25:DA:2491:U:H5'	25:DA:2570:G:C5'	2.50	0.42
25:DA:2746:U:H2'	25:DA:2747:G:H5'	2.00	0.42
25:DA:2844:G:C2'	25:DA:2845:U:H5'	2.50	0.42
25:DA:458:G:H22	25:DA:469:G:H2'	1.85	0.42
25:DA:52:A:H2'	25:DA:53:A:O5'	2.18	0.42
25:DA:56:A:H2'	25:DA:57:C:O4'	2.20	0.42
25:DA:714:U:H2'	25:DA:716:A:N7	2.34	0.42
25:DA:817:C:H2'	25:DA:818:G:O4'	2.19	0.42
27:DC:68:ARG:NH1	27:DC:128:THR:OG1	2.52	0.42
27:DC:161:VAL:HG13	27:DC:174:ARG:O	2.19	0.42
27:DC:83:ASP:OD1	27:DC:84:PRO:HD2	2.19	0.42
28:DD:124:ARG:HD3	28:DD:125:TRP:HE1	1.84	0.42
25:DA:2730:C:H5'	28:DD:175:LEU:CD2	2.50	0.42
28:DD:33:ARG:NH2	28:DD:74:GLU:O	2.53	0.42
29:DE:67:ARG:HE	29:DE:67:ARG:HB3	1.65	0.42
30:DF:43:ILE:HA	30:DF:82:TYR:CE1	2.54	0.42
31:DG:147:LEU:HA	31:DG:150:TYR:HD1	1.85	0.42
32:DH:80:ILE:CD1	32:DH:144:VAL:CG1	2.97	0.42
33:DI:75:ALA:HB3	33:DI:131:THR:HG21	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DJ:21:THR:HG23	34:DJ:61:LYS:HB3	2.00	0.42
35:DK:113:MET:O	35:DK:116:ILE:HG13	2.20	0.42
35:DK:92:GLU:N	35:DK:92:GLU:OE2	2.53	0.42
36:DL:19:LEU:CD1	36:DL:19:LEU:N	2.82	0.42
39:DO:101:GLY:O	39:DO:102:ARG:C	2.58	0.42
39:DO:70:ALA:O	39:DO:74:VAL:HB	2.19	0.42
45:DU:12:VAL:HB	45:DU:17:ASP:O	2.20	0.42
48:DX:39:VAL:O	48:DX:40:GLU:C	2.57	0.42
48:DX:56:ARG:O	48:DX:59:ASP:HB2	2.19	0.42
49:DY:13:GLU:C	49:DY:15:ASN:H	2.22	0.42
49:DY:8:GLU:C	49:DY:12:GLU:HB2	2.39	0.42
50:DZ:4:ILE:HG22	50:DZ:37:ARG:O	2.19	0.42
1:AA:1008:U:N3	1:AA:1022:A:C2	2.87	0.42
1:AA:1053:G:O5'	1:AA:1054:C:H5'	2.19	0.42
1:AA:1068:G:C2'	1:AA:1069:C:H5'	2.50	0.42
1:AA:1119:C:H2'	1:AA:1120:C:C6	2.54	0.42
1:AA:1160:G:HO2'	1:AA:1161:C:P	2.43	0.42
1:AA:1410:A:O2'	1:AA:1411:C:H5'	2.20	0.42
1:AA:171:A:C6	1:AA:172:A:C6	3.07	0.42
1:AA:262:A:C6	1:AA:263:A:C6	3.07	0.42
1:AA:293:G:C4	1:AA:294:U:C5	3.08	0.42
1:AA:511:C:N1	1:AA:512:U:C5	2.87	0.42
1:AA:540:G:C5	1:AA:541:G:C8	3.08	0.42
1:AA:721:G:O4'	1:AA:722:G:C5	2.73	0.42
1:AA:986:U:O2'	1:AA:987:G:H5'	2.20	0.42
2:AB:137:THR:O	2:AB:141:GLU:HG3	2.19	0.42
3:AC:135:ARG:O	3:AC:138:GLN:N	2.53	0.42
3:AC:28:PHE:HD2	3:AC:28:PHE:C	2.23	0.42
4:AD:162:GLU:HA	4:AD:166:LYS:HE2	2.00	0.42
4:AD:64:TYR:HE2	4:AD:99:ASN:OD1	2.02	0.42
5:AE:108:GLY:HA2	5:AE:111:ARG:HB2	2.01	0.42
5:AE:131:ASN:HA	5:AE:132:PRO:HD3	1.94	0.42
5:AE:148:SER:O	5:AE:152:VAL:CG1	2.67	0.42
6:AF:4:TYR:HA	6:AF:90:MET:O	2.19	0.42
7:AG:69:ARG:O	7:AG:137:ARG:HD3	2.20	0.42
8:AH:21:LYS:N	8:AH:64:TYR:OH	2.52	0.42
10:AJ:28:THR:CG2	10:AJ:86:ALA:HB1	2.49	0.42
10:AJ:27:GLU:C	10:AJ:29:ALA:N	2.73	0.42
10:AJ:44:THR:O	10:AJ:45:ARG:C	2.57	0.42
10:AJ:59:LYS:CE	10:AJ:59:LYS:H	2.29	0.42
10:AJ:42:LEU:HB3	10:AJ:71:LEU:CB	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:23:HIS:CD2	11:AK:23:HIS:O	2.73	0.42
11:AK:52:ARG:N	11:AK:55:ARG:CB	2.83	0.42
12:AL:37:TYR:CD2	12:AL:37:TYR:N	2.87	0.42
13:AM:78:ARG:O	13:AM:81:ASP:HB2	2.19	0.42
17:AQ:80:LYS:CD	17:AQ:80:LYS:N	2.82	0.42
22:AV:59:U:H3'	22:AV:60:U:C6	2.54	0.42
24:AY:130:ARG:O	24:AY:133:ARG:HB2	2.19	0.42
1:BA:100:G:C5	1:BA:101:A:N7	2.87	0.42
1:BA:1096:C:C4	1:BA:1097:C:N4	2.88	0.42
1:BA:1155:A:H2'	1:BA:1156:G:O5'	2.19	0.42
1:BA:1057:G:C6	1:BA:1204:A:C2	3.08	0.42
1:BA:1272:G:C2	1:BA:1273:C:C2	3.07	0.42
1:BA:1304:G:H2'	1:BA:1305:G:H1'	2.02	0.42
1:BA:1360:A:C8	14:BN:58:SER:CB	3.03	0.42
1:BA:1361:G:C8	1:BA:1362:A:H5''	2.55	0.42
1:BA:1323:G:H1'	1:BA:1362:A:C2	2.55	0.42
1:BA:1478:U:H2'	1:BA:1479:C:C6	2.55	0.42
1:BA:164:G:O2'	1:BA:165:G:H5'	2.19	0.42
1:BA:188:C:N3	1:BA:189:A:C5	2.87	0.42
1:BA:253:A:N1	1:BA:254:G:C5	2.88	0.42
1:BA:794:A:H2'	1:BA:795:C:C6	2.54	0.42
1:BA:927:G:H4'	1:BA:1503:A:N7	2.34	0.42
1:BA:943:U:C2'	1:BA:944:G:H5'	2.50	0.42
3:BC:129:PHE:CD2	3:BC:130:ARG:HD3	2.54	0.42
3:BC:179:ALA:HB1	3:BC:202:PHE:CE1	2.55	0.42
3:BC:22:PHE:CD2	3:BC:23:ALA:CA	3.01	0.42
3:BC:88:LYS:HG2	3:BC:89:VAL:N	2.35	0.42
5:BE:115:GLU:O	5:BE:118:GLY:N	2.52	0.42
5:BE:152:VAL:HG23	5:BE:153:ALA:N	2.34	0.42
6:BF:6:ILE:C	6:BF:7:VAL:HG12	2.40	0.42
7:BG:59:GLU:HA	7:BG:62:GLU:HB3	2.00	0.42
7:BG:78:ARG:HG2	7:BG:83:THR:HG23	2.02	0.42
8:BH:85:TYR:O	8:BH:86:LYS:CD	2.67	0.42
9:BI:60:LEU:CD2	9:BI:60:LEU:N	2.82	0.42
9:BI:115:VAL:HG21	10:BJ:62:ARG:HB2	2.02	0.42
11:BK:12:ARG:CZ	11:BK:76:TYR:OH	2.68	0.42
13:BM:47:LEU:HD13	13:BM:52:ILE:HG13	2.02	0.42
13:BM:88:LEU:C	13:BM:90:HIS:N	2.72	0.42
15:BO:44:GLU:O	15:BO:45:HIS:HB2	2.19	0.42
17:BQ:17:GLU:O	17:BQ:18:LYS:HB2	2.19	0.42
17:BQ:31:PRO:CB	17:BQ:32:ILE:HD12	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BQ:64:ARG:HD3	17:BQ:64:ARG:H	1.85	0.42
20:BT:35:TYR:CD1	20:BT:35:TYR:O	2.73	0.42
21:BU:25:ALA:HB1	23:BX:8:A:H5''	2.00	0.42
25:CA:1058:U:H1'	25:CA:1081:U:C2	2.55	0.42
25:CA:1076:C:C2'	25:CA:1077:A:O4'	2.68	0.42
25:CA:1446:C:H2'	25:CA:1447:C:H6	1.84	0.42
25:CA:1485:U:C2	25:CA:1505:A:C2	3.08	0.42
25:CA:1547:C:C4'	25:CA:1547:C:C6	3.02	0.42
25:CA:1585:C:O2'	25:CA:1586:A:C5'	2.62	0.42
25:CA:1588:G:C4	25:CA:1589:U:C5	3.08	0.42
25:CA:186:G:C2	25:CA:187:G:C8	3.07	0.42
25:CA:2162:G:OP2	25:CA:2164:C:N4	2.52	0.42
25:CA:2181:U:H2'	25:CA:2182:U:H6	1.83	0.42
25:CA:2301:C:C2'	25:CA:2302:U:H5'	2.50	0.42
25:CA:2328:A:H2'	25:CA:2329:U:H6	1.80	0.42
25:CA:2469:A:N6	25:CA:2481:G:H1'	2.35	0.42
25:CA:2555:U:C5	25:CA:2556:C:C2	3.08	0.42
25:CA:2555:U:C2'	25:CA:2556:C:H5'	2.50	0.42
25:CA:2800:A:C2	25:CA:2895:G:H1'	2.55	0.42
25:CA:623:C:H2'	25:CA:624:C:C6	2.54	0.42
25:CA:665:U:H2'	25:CA:666:A:H8	1.85	0.42
25:CA:740:C:O2	25:CA:740:C:C2'	2.66	0.42
25:CA:908:C:H2'	25:CA:909:A:O5'	2.19	0.42
25:CA:936:A:H2'	25:CA:937:C:C6	2.55	0.42
27:CC:163:ILE:HA	27:CC:173:LEU:HD12	2.01	0.42
28:CD:111:GLY:HA3	28:CD:194:PRO:HB2	2.01	0.42
29:CE:118:LEU:HD12	29:CE:119:ILE:H	1.81	0.42
29:CE:24:ASN:OD1	29:CE:27:LEU:CB	2.68	0.42
30:CF:51:ASN:OD1	30:CF:51:ASN:N	2.51	0.42
30:CF:68:LYS:O	30:CF:69:ALA:C	2.58	0.42
30:CF:6:TYR:CE2	30:CF:11:VAL:HG22	2.54	0.42
30:CF:88:VAL:CG1	30:CF:89:THR:N	2.83	0.42
31:CG:100:ASN:H	31:CG:100:ASN:ND2	2.13	0.42
32:CH:78:VAL:O	32:CH:145:ASN:N	2.53	0.42
33:CI:95:ASP:CG	33:CI:97:VAL:H	2.23	0.42
35:CK:114:LYS:HD2	35:CK:114:LYS:HA	1.82	0.42
37:CM:50:ARG:O	37:CM:53:MET:HG2	2.19	0.42
38:CN:1:MET:O	38:CN:2:ARG:HB3	2.20	0.42
40:CP:59:THR:HG23	40:CP:72:VAL:HG12	2.00	0.42
41:CQ:96:ASP:OD1	41:CQ:100:PHE:CD1	2.73	0.42
48:CX:1:SER:O	48:CX:3:VAL:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:D4:12:ARG:HB2	55:D4:12:ARG:NH1	2.34	0.42
25:DA:1062:G:H2'	25:DA:1063:G:N9	2.34	0.42
25:DA:1356:G:C6	25:DA:1357:C:C4	3.08	0.42
25:DA:1668:A:C2	25:DA:1670:C:N3	2.88	0.42
25:DA:1717:A:C5	25:DA:1718:G:C8	3.08	0.42
25:DA:1795:C:C2	25:DA:1796:U:C6	3.08	0.42
25:DA:2093:G:O2'	25:DA:2094:A:H5'	2.19	0.42
25:DA:2181:U:H2'	25:DA:2182:U:H6	1.85	0.42
25:DA:2298:A:H2'	25:DA:2299:U:H6	1.81	0.42
25:DA:2311:A:O2'	25:DA:2312:U:O5'	2.37	0.42
25:DA:2473:U:C2	25:DA:2474:U:C6	3.07	0.42
25:DA:24:G:H2'	25:DA:25:U:O4'	2.20	0.42
25:DA:2531:A:H2'	25:DA:2531:A:N3	2.34	0.42
25:DA:1637:A:H4'	25:DA:2711:A:O2'	2.20	0.42
25:DA:2769:U:C2	25:DA:2770:G:C8	3.08	0.42
25:DA:294:A:C5	25:DA:345:A:C2	3.07	0.42
25:DA:413:C:C2'	25:DA:414:C:O5'	2.68	0.42
25:DA:65:U:H4'	44:DT:73:ARG:HH11	1.85	0.42
25:DA:846:U:C2'	25:DA:847:U:OP2	2.68	0.42
25:DA:93:G:O2'	25:DA:94:A:H5'	2.19	0.42
56:DB:52:A:H2'	56:DB:52:A:OP2	2.20	0.42
27:DC:118:GLY:C	27:DC:120:ASP:N	2.71	0.42
27:DC:134:ILE:HA	27:DC:135:PRO:HD3	1.81	0.42
27:DC:139:THR:C	27:DC:140:VAL:CG2	2.88	0.42
29:DE:167:VAL:O	29:DE:167:VAL:HG12	2.20	0.42
25:DA:443:A:C5	29:DE:40:ARG:HD3	2.54	0.42
32:DH:51:ARG:O	32:DH:55:GLU:HB2	2.20	0.42
32:DH:86:ASP:O	32:DH:87:GLU:CB	2.61	0.42
56:DB:49:C:H4'	39:DO:68:LYS:HE2	2.01	0.42
41:DQ:40:LYS:C	41:DQ:42:GLY:N	2.73	0.42
43:DS:29:VAL:CG1	43:DS:55:ILE:CD1	2.98	0.42
45:DU:94:PHE:CA	45:DU:102:ILE:CD1	2.97	0.42
49:DY:8:GLU:CB	49:DY:12:GLU:HB3	2.50	0.42
1:AA:1062:U:H5''	1:AA:1063:C:OP1	2.20	0.42
1:AA:113:G:C1'	1:AA:354:G:H5'	2.50	0.42
1:AA:1141:C:O2'	1:AA:1142:G:P	2.78	0.42
1:AA:1164:G:C2	1:AA:1165:U:C6	3.08	0.42
1:AA:208:U:O4	1:AA:210:C:N3	2.53	0.42
1:AA:258:G:C2	1:AA:259:G:C1'	3.01	0.42
1:AA:617:G:N1	1:AA:618:C:C4	2.88	0.42
1:AA:646:G:C5	1:AA:647:C:C5	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:A:C6	1:AA:67:C:C5	3.08	0.42
1:AA:71:A:H3'	1:AA:71:A:P	2.60	0.42
1:AA:807:A:H2'	1:AA:808:C:O4'	2.19	0.42
1:AA:980:C:H5	1:AA:981:U:C4	2.37	0.42
2:AB:174:GLU:O	2:AB:177:ASN:HB3	2.19	0.42
2:AB:216:VAL:O	2:AB:219:THR:CG2	2.63	0.42
2:AB:46:VAL:HB	2:AB:47:PRO:CD	2.42	0.42
3:AC:125:ARG:O	3:AC:126:ARG:CB	2.66	0.42
3:AC:134:LYS:O	3:AC:135:ARG:C	2.57	0.42
5:AE:82:HIS:HE1	5:AE:146:MET:CG	2.33	0.42
1:AA:673:A:H5''	6:AF:86:ARG:NH1	2.35	0.42
7:AG:39:GLU:C	7:AG:41:ILE:N	2.71	0.42
8:AH:100:ILE:HD12	8:AH:100:ILE:C	2.40	0.42
8:AH:100:ILE:HD11	8:AH:128:VAL:CB	2.49	0.42
8:AH:2:MET:O	8:AH:5:PRO:HD3	2.19	0.42
1:AA:1179:A:O3'	9:AI:104:THR:HG23	2.19	0.42
10:AJ:56:HIS:C	10:AJ:57:VAL:HG12	2.40	0.42
11:AK:106:ILE:HD13	11:AK:106:ILE:C	2.40	0.42
11:AK:52:ARG:CZ	11:AK:56:LYS:HE2	2.50	0.42
1:AA:502:A:OP1	12:AL:114:SER:HB3	2.20	0.42
12:AL:27:PRO:O	12:AL:28:GLN:HB3	2.20	0.42
13:AM:106:ARG:HA	13:AM:106:ARG:HD3	1.77	0.42
13:AM:53:ASP:O	13:AM:56:ARG:CB	2.68	0.42
14:AN:43:ASN:C	14:AN:45:VAL:N	2.73	0.42
15:AO:86:LEU:O	15:AO:87:ARG:CB	2.68	0.42
16:AP:70:ARG:HD3	16:AP:70:ARG:HA	1.79	0.42
17:AQ:27:PHE:CE1	17:AQ:36:PHE:HB3	2.54	0.42
21:AU:9:GLU:CD	21:AU:10:PRO:HG3	2.40	0.42
22:AV:45:U:H2'	22:AV:45:U:O2	2.18	0.42
24:AY:132:VAL:HA	24:AY:135:ASP:OD2	2.20	0.42
24:AY:144:LEU:O	24:AY:147:LYS:HA	2.20	0.42
24:AY:162:GLN:NE2	24:AY:162:GLN:HA	2.33	0.42
1:BA:1255:G:C6	1:BA:1279:G:N7	2.88	0.42
1:BA:1371:G:OP2	9:BI:12:LYS:HD3	2.20	0.42
1:BA:1386:G:H2'	1:BA:1387:G:H8	1.84	0.42
1:BA:1492:A:OP1	12:BL:43:LYS:HA	2.20	0.42
1:BA:594:U:H2'	1:BA:595:A:H8	1.81	0.42
1:BA:615:G:C4	1:BA:616:G:C8	3.08	0.42
1:BA:659:U:H2'	1:BA:660:C:C6	2.55	0.42
2:BB:112:ARG:HH22	2:BB:136:ARG:HD3	1.85	0.42
3:BC:118:SER:O	3:BC:121:SER:HB2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:127:VAL:HG23	3:BC:128:MET:N	2.34	0.42
3:BC:154:GLY:C	3:BC:156:LEU:HD12	2.40	0.42
3:BC:70:ALA:C	3:BC:72:PRO:HD3	2.39	0.42
4:BD:123:MET:O	4:BD:142:VAL:HA	2.20	0.42
5:BE:115:GLU:CG	5:BE:116:VAL:N	2.82	0.42
5:BE:22:LYS:O	5:BE:23:THR:HB	2.19	0.42
8:BH:79:ARG:O	8:BH:83:ARG:HD3	2.19	0.42
9:BI:125:GLN:C	9:BI:125:GLN:HE21	2.23	0.42
10:BJ:27:GLU:C	10:BJ:29:ALA:N	2.73	0.42
1:BA:684:U:C2'	11:BK:39:ASN:O	2.67	0.42
11:BK:93:GLU:O	11:BK:96:ILE:HG13	2.20	0.42
12:BL:73:LEU:O	12:BL:74:GLN:HB3	2.19	0.42
18:BR:58:ILE:HG22	18:BR:62:ARG:HD2	2.01	0.42
51:C0:53:VAL:O	51:C0:55:ALA:N	2.53	0.42
25:CA:1056:G:H4'	25:CA:1086:A:N7	2.34	0.42
25:CA:1178:C:H5'	25:CA:1179:G:OP1	2.20	0.42
25:CA:1315:C:H2'	25:CA:1316:U:O5'	2.19	0.42
25:CA:1359:A:C8	25:CA:1373:A:C2	3.08	0.42
25:CA:1407:G:C2'	25:CA:1408:G:H5'	2.49	0.42
25:CA:1474:U:C5	25:CA:1475:G:N2	2.87	0.42
25:CA:1524:G:H2'	25:CA:1525:A:O4'	2.20	0.42
25:CA:1535:A:H5''	25:CA:1536:C:C5	2.54	0.42
25:CA:1925:C:H5''	25:CA:1926:U:C5	2.54	0.42
25:CA:2312:U:OP2	25:CA:2312:U:C5	2.73	0.42
25:CA:270:A:OP1	25:CA:271:G:H2'	2.20	0.42
25:CA:2727:A:H2'	25:CA:2728:U:H5'	2.01	0.42
25:CA:556:A:H2'	25:CA:557:C:O5'	2.19	0.42
25:CA:631:A:H1'	36:CL:65:GLY:HA2	2.02	0.42
25:CA:682:G:H5'	53:C2:26:ASN:CG	2.40	0.42
25:CA:713:G:O5'	25:CA:713:G:H8	2.03	0.42
25:CA:927:A:H2'	25:CA:928:A:O5'	2.20	0.42
26:CB:111:U:H2'	26:CB:112:G:H8	1.83	0.42
27:CC:134:ILE:HG23	27:CC:135:PRO:HD2	2.00	0.42
30:CF:114:ARG:HD3	30:CF:114:ARG:HA	1.90	0.42
32:CH:116:ARG:HB2	32:CH:131:SER:O	2.19	0.42
33:CI:102:ARG:HE	33:CI:103:ALA:H	1.68	0.42
33:CI:56:VAL:HG21	33:CI:70:THR:HB	2.02	0.42
38:CN:103:ARG:CD	38:CN:110:MET:CE	2.93	0.42
42:CR:63:VAL:HA	42:CR:96:VAL:HG12	2.01	0.42
45:CU:6:ARG:HG3	45:CU:7:ASP:N	2.35	0.42
45:CU:85:ARG:HH12	45:CU:99:SER:CB	2.33	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CW:11:ASP:OD2	47:CW:12:SER:N	2.52	0.42
47:CW:52:ASP:O	47:CW:53:HIS:HB2	2.20	0.42
25:DA:1076:C:C2'	25:DA:1077:A:O5'	2.68	0.42
25:DA:110:G:H2'	25:DA:110:G:N3	2.34	0.42
25:DA:1257:C:H5'	29:DE:78:TRP:CH2	2.54	0.42
25:DA:1362:C:H2'	25:DA:1363:C:C5'	2.49	0.42
25:DA:140:C:O2	25:DA:140:C:OP2	2.38	0.42
25:DA:1411:U:C6	25:DA:1411:U:H3'	2.54	0.42
25:DA:1446:C:O5'	25:DA:1446:C:H6	2.02	0.42
25:DA:1700:A:H5'	25:DA:1701:A:OP2	2.19	0.42
25:DA:1682:G:C8	25:DA:1757:A:N3	2.87	0.42
25:DA:184:C:O2'	25:DA:217:A:H1'	2.20	0.42
25:DA:1826:G:O2'	25:DA:1971:U:OP2	2.37	0.42
25:DA:1994:C:OP1	28:DD:132:ALA:HB2	2.20	0.42
25:DA:2111:U:O4	25:DA:2145:C:H3'	2.19	0.42
25:DA:2259:U:H2'	25:DA:2260:C:C6	2.54	0.42
25:DA:2445:G:C2'	25:DA:2446:G:H5'	2.50	0.42
25:DA:24:G:C2	25:DA:517:C:C2	3.07	0.42
25:DA:271:G:C6	25:DA:367:G:C6	3.08	0.42
25:DA:2902:C:H6	25:DA:2902:C:OP2	2.03	0.42
25:DA:406:G:O2'	25:DA:407:G:H5'	2.19	0.42
25:DA:690:G:H2'	25:DA:691:C:O4'	2.20	0.42
25:DA:692:C:O2'	25:DA:693:A:O5'	2.37	0.42
25:DA:769:U:HO2'	25:DA:1379:U:H6	1.65	0.42
25:DA:779:U:H6	25:DA:779:U:O5'	2.02	0.42
25:DA:830:G:C4	25:DA:2448:A:C5	3.08	0.42
56:DB:27:C:C2'	56:DB:28:C:O5'	2.67	0.42
29:DE:127:GLU:OE1	29:DE:127:GLU:HA	2.19	0.42
30:DF:170:ALA:C	30:DF:172:PHE:N	2.72	0.42
35:DK:53:LYS:HG3	35:DK:56:ASP:OD2	2.20	0.42
36:DL:29:LYS:HG2	36:DL:30:THR:HG23	2.02	0.42
37:DM:111:GLU:OE1	37:DM:115:GLU:HG2	2.18	0.42
38:DN:72:ASP:HB3	38:DN:75:ILE:CG1	2.49	0.42
41:DQ:77:LYS:O	41:DQ:80:ASN:HB3	2.19	0.42
42:DR:67:GLY:CA	42:DR:93:PHE:CE2	3.03	0.42
43:DS:27:LYS:O	43:DS:71:VAL:HG23	2.19	0.42
44:DT:39:THR:HG22	44:DT:42:GLU:H	1.85	0.42
49:DY:16:THR:O	49:DY:17:GLU:C	2.57	0.42
44:DT:8:LEU:HD11	49:DY:22:LEU:HA	2.02	0.42
25:DA:78:U:OP1	49:DY:2:LYS:HB2	2.20	0.42
49:DY:36:GLN:O	49:DY:37:LEU:C	2.58	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:930:G:C1'	50:DZ:24:LEU:CD2	2.98	0.42
1:AA:100:G:C5	1:AA:101:A:C8	3.07	0.42
1:AA:1038:C:C2	1:AA:1039:G:C8	3.08	0.42
1:AA:1214:C:H4'	1:AA:1215:G:OP2	2.19	0.42
1:AA:1446:A:H2'	1:AA:1447:A:C5'	2.49	0.42
1:AA:304:U:C2'	1:AA:305:G:H5'	2.49	0.42
1:AA:538:G:OP2	12:AL:111:GLN:HG3	2.19	0.42
1:AA:859:G:H2'	1:AA:860:A:H8	1.83	0.42
1:AA:885:G:O2'	1:AA:914:A:N1	2.27	0.42
2:AB:177:ASN:OD1	2:AB:178:LEU:HD23	2.19	0.42
2:AB:52:ALA:HB3	2:AB:212:TYR:OH	2.19	0.42
2:AB:93:HIS:ND1	2:AB:145:ASN:CB	2.83	0.42
3:AC:122:GLN:O	3:AC:125:ARG:HB2	2.20	0.42
3:AC:16:PRO:CG	3:AC:53:ARG:NH2	2.83	0.42
4:AD:109:THR:OG1	4:AD:111:ALA:HB3	2.20	0.42
4:AD:121:ALA:O	4:AD:122:ILE:HG23	2.20	0.42
4:AD:193:ASP:O	4:AD:194:ILE:HG22	2.20	0.42
5:AE:104:ILE:HD12	5:AE:104:ILE:HA	1.79	0.42
5:AE:66:ALA:O	5:AE:67:ARG:C	2.58	0.42
5:AE:64:GLU:OE2	5:AE:68:ARG:CZ	2.68	0.42
9:AI:119:LYS:O	9:AI:120:ALA:CB	2.68	0.42
12:AL:56:LEU:HA	12:AL:56:LEU:HD23	1.87	0.42
12:AL:81:ILE:HA	12:AL:97:VAL:HG23	2.02	0.42
14:AN:27:LYS:CA	14:AN:30:ILE:HB	2.50	0.42
16:AP:19:VAL:CG2	16:AP:19:VAL:O	2.67	0.42
16:AP:4:ILE:HA	16:AP:20:VAL:O	2.20	0.42
16:AP:39:PHE:CD1	16:AP:40:ASN:N	2.87	0.42
17:AQ:47:ASP:O	17:AQ:47:ASP:CG	2.57	0.42
17:AQ:48:GLU:O	17:AQ:49:ASN:C	2.58	0.42
20:AT:56:ILE:O	20:AT:56:ILE:HD12	2.20	0.42
12:AL:35:ARG:NH2	24:AY:110:ARG:HD2	2.35	0.42
1:BA:1074:G:H2'	1:BA:1075:U:O4'	2.20	0.42
1:BA:1134:G:C6	1:BA:1135:U:C4	3.08	0.42
1:BA:1211:U:O2'	1:BA:1212:U:O5'	2.37	0.42
1:BA:1251:A:C2	1:BA:1252:A:C4	3.08	0.42
1:BA:1337:G:H5''	1:BA:1338:G:OP1	2.19	0.42
1:BA:361:G:C2'	1:BA:362:G:H5'	2.50	0.42
1:BA:474:G:C6	1:BA:475:C:C4	3.08	0.42
1:BA:687:A:N3	1:BA:688:G:H1'	2.35	0.42
1:BA:737:C:C2	1:BA:738:C:C5	3.08	0.42
1:BA:811:C:O2'	1:BA:901:A:N1	2.46	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:919:A:H2'	1:BA:920:U:H6	1.83	0.42
3:BC:113:LYS:HB2	3:BC:184:ASN:ND2	2.34	0.42
3:BC:115:VAL:O	3:BC:118:SER:HB3	2.20	0.42
3:BC:116:ALA:O	3:BC:119:ILE:N	2.52	0.42
3:BC:148:ILE:HA	3:BC:200:TRP:O	2.20	0.42
3:BC:34:SER:O	3:BC:38:VAL:HG13	2.20	0.42
4:BD:134:TYR:C	4:BD:134:TYR:CD2	2.93	0.42
4:BD:201:GLU:O	4:BD:204:SER:HB2	2.20	0.42
5:BE:155:LYS:CE	5:BE:155:LYS:H	2.31	0.42
1:BA:6:G:C6	5:BE:98:ALA:HB1	2.55	0.42
7:BG:74:VAL:HG21	7:BG:143:MET:CG	2.47	0.42
9:BI:89:TYR:CA	9:BI:93:LEU:HD11	2.49	0.42
10:BJ:22:THR:O	10:BJ:22:THR:HG23	2.19	0.42
10:BJ:58:ASN:O	10:BJ:59:LYS:C	2.58	0.42
10:BJ:80:THR:CB	10:BJ:83:THR:HG22	2.49	0.42
12:BL:43:LYS:HB2	12:BL:44:PRO:CD	2.50	0.42
13:BM:18:LEU:C	13:BM:20:SER:N	2.73	0.42
18:BR:26:ALA:O	18:BR:27:THR:C	2.58	0.42
18:BR:28:LEU:N	18:BR:28:LEU:CD1	2.83	0.42
19:BS:14:LEU:HD23	19:BS:37:SER:CB	2.50	0.42
19:BS:39:ILE:O	19:BS:66:VAL:HG13	2.19	0.42
19:BS:57:VAL:HG11	19:BS:74:ALA:CB	2.50	0.42
20:BT:7:LYS:O	20:BT:10:ALA:HB3	2.20	0.42
21:BU:18:PHE:HA	21:BU:21:SER:HB3	2.01	0.42
51:C0:28:SER:O	51:C0:36:LYS:HA	2.20	0.42
54:C3:16:THR:CG2	54:C3:20:GLY:O	2.68	0.42
54:C3:6:VAL:HG21	54:C3:60:CYS:SG	2.60	0.42
25:CA:123:G:H4'	25:CA:1376:C:O5'	2.20	0.42
25:CA:1444:G:C4	25:CA:1445:G:C8	3.07	0.42
25:CA:1712:U:H2'	25:CA:1713:A:C8	2.55	0.42
25:CA:1726:C:C4	25:CA:1727:C:C5	3.07	0.42
25:CA:1914:C:C5	25:CA:1915:U:C5	3.08	0.42
25:CA:2174:C:C2	25:CA:2175:C:C5	3.08	0.42
25:CA:2179:C:N3	25:CA:2180:U:C5	2.87	0.42
25:CA:2415:G:H2'	25:CA:2416:C:H6	1.85	0.42
25:CA:2732:G:C3'	25:CA:2733:A:C5'	2.98	0.42
25:CA:368:A:C8	25:CA:368:A:C3'	3.03	0.42
25:CA:45:G:H5'	25:CA:46:G:H5'	2.01	0.42
25:CA:559:G:H2'	25:CA:560:C:H5'	2.02	0.42
25:CA:594:U:H2'	25:CA:595:C:H6	1.80	0.42
25:CA:4:U:C2'	25:CA:5:A:H5'	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CB:78:A:H61	26:CB:98:G:H2'	1.83	0.42
27:CC:221:GLY:C	27:CC:223:ALA:N	2.72	0.42
27:CC:23:LEU:HD12	27:CC:23:LEU:HA	1.82	0.42
29:CE:193:VAL:O	29:CE:197:GLU:HB2	2.19	0.42
32:CH:130:VAL:HG21	32:CH:144:VAL:HG21	2.01	0.42
1:BA:55:A:C2	32:CH:91:PHE:CD2	3.07	0.42
35:CK:44:LYS:HA	35:CK:44:LYS:HD3	1.91	0.42
36:CL:120:VAL:CG2	36:CL:121:THR:N	2.83	0.42
37:CM:29:GLY:CA	37:CM:106:ASP:HB2	2.50	0.42
38:CN:58:ASP:OD2	38:CN:58:ASP:C	2.58	0.42
39:CO:14:ALA:O	39:CO:18:LEU:HD22	2.19	0.42
40:CP:30:TRP:CD2	40:CP:39:LEU:HD12	2.55	0.42
42:CR:43:ASN:HD22	42:CR:43:ASN:HA	1.63	0.42
47:CW:17:LEU:HD23	47:CW:35:ARG:CB	2.50	0.42
50:CZ:2:LYS:N	50:CZ:2:LYS:HD3	2.35	0.42
53:D2:21:ARG:O	53:D2:27:GLY:HA3	2.20	0.42
55:D4:19:ARG:O	55:D4:20:ASP:HB2	2.20	0.42
25:DA:1045:C:H4'	25:DA:1046:A:H5'	2.02	0.42
25:DA:107:G:H2'	25:DA:108:G:H8	1.85	0.42
25:DA:129:C:C2'	25:DA:130:C:H5'	2.50	0.42
25:DA:1327:A:C2'	25:DA:1328:A:H5'	2.50	0.42
25:DA:1286:A:C6	25:DA:1329:U:C2	3.08	0.42
25:DA:1367:A:C5	25:DA:1368:G:H1'	2.54	0.42
25:DA:1378:A:C2	25:DA:1380:G:N9	2.87	0.42
25:DA:1443:U:H2'	25:DA:1444:G:C8	2.54	0.42
25:DA:1448:G:N1	25:DA:1449:G:C4	2.88	0.42
25:DA:1562:U:H2'	25:DA:1563:U:O4'	2.20	0.42
25:DA:1579:A:C2	25:DA:1580:A:C2	3.07	0.42
25:DA:1712:U:C2	25:DA:1713:A:N7	2.88	0.42
25:DA:1885:A:C5	25:DA:1886:U:C5	3.08	0.42
25:DA:2119:A:C2	25:DA:2169:A:H2'	2.55	0.42
25:DA:2338:C:O2	25:DA:2339:C:C6	2.73	0.42
25:DA:2350:C:C2'	25:DA:2351:G:O5'	2.68	0.42
25:DA:2433:A:H5''	25:DA:2434:A:OP1	2.19	0.42
25:DA:255:A:H2'	25:DA:256:A:O4'	2.20	0.42
25:DA:2721:A:H2'	25:DA:2722:G:C8	2.54	0.42
25:DA:2731:G:O2'	25:DA:2732:G:O5'	2.38	0.42
25:DA:2784:U:C2	25:DA:2785:C:C5	3.08	0.42
25:DA:2794:C:O2	25:DA:2795:C:C2	2.73	0.42
25:DA:317:G:C4	25:DA:318:C:C5	3.08	0.42
25:DA:321:U:C2	29:DE:159:LEU:CD2	3.03	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:494:G:H4'	43:DS:6:LYS:HG3	2.01	0.42
25:DA:511:U:O4	25:DA:512:G:N1	2.53	0.42
25:DA:53:A:C2'	25:DA:54:G:H5'	2.49	0.42
56:DB:82:U:C2	56:DB:83:G:C8	3.08	0.42
27:DC:225:ASN:O	27:DC:226:PRO:C	2.57	0.42
27:DC:74:PRO:O	27:DC:96:LYS:HG2	2.20	0.42
25:DA:616:A:N3	29:DE:173:THR:HG21	2.34	0.42
30:DF:128:SER:OG	30:DF:154:THR:HG23	2.19	0.42
30:DF:132:ARG:CG	30:DF:132:ARG:HH21	2.33	0.42
31:DG:26:LYS:CB	31:DG:31:GLU:CD	2.87	0.42
31:DG:26:LYS:HB3	31:DG:31:GLU:CG	2.48	0.42
31:DG:39:ALA:HB2	31:DG:57:TYR:CD2	2.55	0.42
31:DG:3:VAL:O	31:DG:6:ALA:HB3	2.20	0.42
31:DG:8:VAL:CG2	31:DG:72:ASN:HB2	2.49	0.42
33:DI:72:THR:CG2	33:DI:112:LYS:HG2	2.50	0.42
33:DI:7:TYR:O	33:DI:7:TYR:CD1	2.72	0.42
34:DJ:62:VAL:O	34:DJ:62:VAL:HG13	2.18	0.42
36:DL:10:GLU:HG3	36:DL:10:GLU:O	2.20	0.42
37:DM:111:GLU:OE1	37:DM:112:LEU:HA	2.20	0.42
37:DM:32:GLY:C	37:DM:117:PHE:HE2	2.23	0.42
44:DT:7:LEU:O	44:DT:7:LEU:CD2	2.68	0.42
45:DU:17:ASP:O	45:DU:19:GLY:N	2.53	0.42
50:DZ:26:LEU:HD21	50:DZ:46:MET:CB	2.49	0.42
1:AA:1001:C:H3'	1:AA:1001:C:H6	1.85	0.42
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.55	0.42
1:AA:1178:G:H3'	1:AA:1178:G:C8	2.55	0.42
1:AA:1345:U:C4	1:AA:1377:A:C2	3.08	0.42
1:AA:1446:A:C2'	1:AA:1447:A:C5'	2.97	0.42
1:AA:1394:A:C5	1:AA:1501:C:H4'	2.54	0.42
1:AA:1405:G:O4'	1:AA:1519:A:H4'	2.20	0.42
1:AA:233:C:N3	1:AA:234:C:C5	2.87	0.42
1:AA:386:C:H2'	1:AA:387:U:C5'	2.50	0.42
1:AA:451:A:C2	1:AA:480:U:N3	2.88	0.42
1:AA:490:C:C2	1:AA:491:G:C8	3.08	0.42
1:AA:508:U:H1'	1:AA:509:A:N7	2.35	0.42
1:AA:585:G:C6	1:AA:586:C:C4	3.08	0.42
1:AA:613:C:C2	1:AA:628:G:N2	2.87	0.42
1:AA:96:U:O2'	1:AA:97:G:P	2.77	0.42
2:AB:31:PHE:CD2	2:AB:31:PHE:O	2.73	0.42
3:AC:28:PHE:CE2	3:AC:32:LEU:HD23	2.55	0.42
3:AC:51:VAL:CG2	3:AC:67:ILE:CG2	2.98	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:106:PHE:HD1	4:AD:158:LEU:CD2	2.32	0.42
4:AD:151:GLN:O	4:AD:154:VAL:HG12	2.19	0.42
6:AF:51:ILE:HG13	6:AF:52:ASN:HB2	2.02	0.42
7:AG:91:ARG:HB2	7:AG:94:ARG:HG2	2.02	0.42
8:AH:102:VAL:HG21	8:AH:126:CYS:SG	2.60	0.42
8:AH:85:TYR:CD2	8:AH:123:GLU:HA	2.48	0.42
9:AI:89:TYR:HB3	9:AI:93:LEU:HD21	2.01	0.42
10:AJ:72:ARG:HA	10:AJ:72:ARG:HD3	1.94	0.42
14:AN:25:GLU:O	14:AN:28:ALA:HB3	2.20	0.42
1:AA:108:G:N7	20:AT:9:ARG:HG2	2.34	0.42
1:BA:1023:U:H2'	1:BA:1024:G:O4'	2.19	0.42
1:BA:1088:G:N3	1:BA:1089:G:C8	2.88	0.42
1:BA:1117:A:H4'	9:BI:105:ARG:CD	2.50	0.42
1:BA:1134:G:N1	1:BA:1141:C:N4	2.67	0.42
1:BA:1240:U:H3'	1:BA:1241:G:C5'	2.49	0.42
1:BA:1308:U:C6	13:BM:97:ARG:NH2	2.87	0.42
1:BA:1446:A:N6	1:BA:1447:A:N6	2.68	0.42
1:BA:1533:C:H4'	1:BA:1533:C:OP1	2.20	0.42
1:BA:318:G:C4	1:BA:319:G:C8	3.08	0.42
1:BA:385:C:H6	1:BA:385:C:H3'	1.85	0.42
1:BA:488:C:C2	1:BA:489:C:C5	3.08	0.42
1:BA:506:G:C5	1:BA:507:C:C4	3.07	0.42
1:BA:645:G:C5	1:BA:646:G:N7	2.88	0.42
1:BA:82:G:C5	1:BA:83:C:C2	3.08	0.42
1:BA:840:C:C5	1:BA:842:U:H5''	2.55	0.42
2:BB:186:VAL:HG23	2:BB:186:VAL:O	2.20	0.42
2:BB:59:ILE:O	2:BB:63:LYS:HA	2.20	0.42
3:BC:129:PHE:CE2	3:BC:156:LEU:CD2	3.03	0.42
7:BG:65:LEU:HD21	7:BG:69:ARG:CZ	2.50	0.42
8:BH:11:THR:HA	8:BH:14:ARG:NH1	2.35	0.42
9:BI:53:LEU:O	9:BI:54:VAL:CG2	2.67	0.42
10:BJ:17:LEU:N	10:BJ:20:GLN:HG2	2.35	0.42
16:BP:23:ASP:OD1	16:BP:23:ASP:C	2.57	0.42
23:BX:18:C:H3'	23:BX:19:U:C5'	2.49	0.42
25:CA:1079:C:C5	25:CA:1088:A:N1	2.88	0.42
25:CA:1197:G:H2'	25:CA:1198:U:C6	2.55	0.42
25:CA:1255:U:C5	29:CE:68:ALA:HA	2.55	0.42
25:CA:1575:C:H2'	25:CA:1576:U:O5'	2.20	0.42
25:CA:699:A:H4'	25:CA:1634:A:N7	2.35	0.42
25:CA:1637:A:H5'	25:CA:1760:C:HO2'	1.85	0.42
25:CA:1911:U:C2	25:CA:1918:A:C2	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2038:G:H2'	25:CA:2039:U:O4'	2.20	0.42
25:CA:2141:G:C2	25:CA:2142:A:C1'	3.02	0.42
25:CA:2314:A:C4	25:CA:2315:G:C8	3.07	0.42
25:CA:2331:G:C5'	25:CA:2331:G:H8	2.32	0.42
25:CA:2482:A:H2'	25:CA:2483:C:O4'	2.20	0.42
25:CA:623:C:H2'	25:CA:624:C:H6	1.84	0.42
26:CB:59:A:C2'	26:CB:60:C:O5'	2.67	0.42
26:CB:68:C:C6	26:CB:68:C:H3'	2.55	0.42
27:CC:174:ARG:O	27:CC:174:ARG:HG2	2.20	0.42
27:CC:190:THR:HG22	27:CC:191:LEU:O	2.20	0.42
28:CD:121:THR:HG22	28:CD:125:TRP:HD1	1.85	0.42
28:CD:205:PRO:O	28:CD:206:ALA:O	2.38	0.42
29:CE:48:THR:O	29:CE:50:ALA:N	2.53	0.42
31:CG:8:VAL:O	31:CG:8:VAL:HG13	2.19	0.42
33:CI:18:ASN:H	33:CI:19:PRO:CD	2.33	0.42
33:CI:75:ALA:HB1	33:CI:128:ILE:HG22	1.98	0.42
35:CK:53:LYS:O	35:CK:56:ASP:HB2	2.20	0.42
38:CN:79:LEU:HG	38:CN:83:LEU:HD12	2.02	0.42
42:CR:25:LEU:N	42:CR:94:THR:CG2	2.77	0.42
25:CA:1262:A:OP2	43:CS:99:ARG:NH2	2.52	0.42
44:CT:51:PHE:O	44:CT:53:VAL:HG13	2.20	0.42
48:CX:67:LEU:HD23	48:CX:67:LEU:HA	1.89	0.42
49:CY:59:GLU:O	49:CY:63:ALA:CB	2.68	0.42
25:DA:1121:C:H2'	25:DA:1122:G:O4'	2.20	0.42
25:DA:1168:G:C2'	25:DA:1169:A:O5'	2.68	0.42
25:DA:1178:C:C5	25:DA:1180:U:C4	3.08	0.42
25:DA:1469:A:C2'	25:DA:1470:A:C8	3.00	0.42
25:DA:1656:C:H6	25:DA:1656:C:O5'	2.01	0.42
25:DA:1709:U:C2'	25:DA:1710:G:O5'	2.68	0.42
25:DA:1856:U:C2'	25:DA:1857:G:H5'	2.49	0.42
25:DA:201:C:H2'	25:DA:202:U:O5'	2.18	0.42
25:DA:570:G:C4	25:DA:2030:A:N7	2.88	0.42
25:DA:2165:C:O2	25:DA:2166:U:C1'	2.67	0.42
25:DA:2177:C:C4	25:DA:2178:C:N4	2.88	0.42
25:DA:2192:U:H2'	25:DA:2193:G:C8	2.55	0.42
25:DA:2393:U:H2'	25:DA:2394:C:H6	1.84	0.42
25:DA:2462:C:H2'	25:DA:2463:C:H6	1.85	0.42
25:DA:2477:U:H4'	25:DA:2479:U:O4	2.19	0.42
25:DA:2585:U:HO2'	25:DA:2586:U:C5'	2.24	0.42
25:DA:2862:G:C4	25:DA:2863:C:C5	3.08	0.42
25:DA:2886:A:H3'	25:DA:2887:A:H8	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:545:U:C5	25:DA:547:A:O3'	2.73	0.42
25:DA:54:G:C6	25:DA:55:G:C5	3.07	0.42
25:DA:900:A:C5	25:DA:901:C:C5	3.07	0.42
56:DB:112:G:H8	56:DB:112:G:O5'	2.02	0.42
28:DD:47:ALA:HB2	28:DD:83:ARG:HA	2.02	0.42
29:DE:137:LYS:O	29:DE:140:ASP:HB2	2.20	0.42
30:DF:169:LEU:HD13	30:DF:174:PHE:CE1	2.55	0.42
31:DG:10:VAL:O	31:DG:47:ASN:ND2	2.53	0.42
32:DH:118:PRO:O	32:DH:119:ASN:HB2	2.20	0.42
32:DH:21:VAL:HG13	32:DH:21:VAL:O	2.20	0.42
33:DI:58:ILE:HD13	33:DI:66:PHE:CD1	2.55	0.42
36:DL:92:LEU:HD23	36:DL:124:GLY:HA3	2.02	0.42
29:DE:181:ILE:HD13	36:DL:2:ARG:NH1	2.35	0.42
37:DM:26:VAL:HB	37:DM:133:LYS:HA	2.02	0.42
37:DM:66:ARG:HB2	37:DM:102:LEU:O	2.20	0.42
39:DO:31:THR:HG22	39:DO:33:ARG:O	2.20	0.42
44:DT:69:ARG:HB2	44:DT:74:ILE:HG21	2.02	0.42
44:DT:69:ARG:CB	44:DT:74:ILE:HG22	2.50	0.42
48:DX:1:SER:O	48:DX:3:VAL:N	2.53	0.42
48:DX:51:SER:O	48:DX:52:ALA:O	2.37	0.42
49:DY:60:LYS:HB2	49:DY:60:LYS:HE3	1.94	0.42
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.54	0.41
1:AA:1165:U:H2'	1:AA:1166:G:H5'	2.02	0.41
1:AA:282:A:H5''	1:AA:283:U:OP2	2.20	0.41
1:AA:289:G:H5''	1:AA:289:G:H8	1.85	0.41
1:AA:299:G:C2'	1:AA:300:A:O5'	2.68	0.41
1:AA:386:C:H2'	1:AA:387:U:H5'	2.00	0.41
1:AA:430:A:OP2	4:AD:7:LYS:CG	2.68	0.41
1:AA:489:C:H2'	1:AA:490:C:O5'	2.18	0.41
1:AA:527:G:O2'	1:AA:535:A:N1	2.52	0.41
1:AA:957:U:C2	1:AA:959:A:OP2	2.73	0.41
2:AB:72:LYS:HE3	2:AB:204:ASP:HB2	2.02	0.41
2:AB:67:LEU:HA	2:AB:89:PHE:O	2.19	0.41
2:AB:68:PHE:CE2	2:AB:88:GLN:CB	3.03	0.41
4:AD:24:VAL:HG12	4:AD:25:ARG:H	1.83	0.41
4:AD:61:ARG:NH2	4:AD:67:LEU:HD13	2.35	0.41
6:AF:47:LEU:HD13	6:AF:51:ILE:CG2	2.49	0.41
7:AG:70:PRO:O	7:AG:95:ARG:CD	2.68	0.41
10:AJ:71:LEU:O	10:AJ:72:ARG:NE	2.53	0.41
10:AJ:5:ARG:CG	10:AJ:79:PRO:HG3	2.49	0.41
11:AK:13:LYS:HB3	11:AK:14:GLN:H	1.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:63:GLN:O	11:AK:64:VAL:C	2.58	0.41
11:AK:88:PRO:HB3	21:AU:28:LEU:HD13	2.00	0.41
13:AM:2:ARG:C	13:AM:3:ILE:HD13	2.40	0.41
13:AM:22:TYR:CE2	13:AM:68:LEU:HD23	2.54	0.41
10:AJ:51:VAL:HB	14:AN:81:ARG:HB2	2.02	0.41
16:AP:20:VAL:HG11	16:AP:32:PHE:HB3	2.02	0.41
17:AQ:60:ILE:HG23	17:AQ:72:TRP:CE3	2.55	0.41
19:AS:44:ILE:HG23	19:AS:62:THR:HA	2.03	0.41
20:AT:34:VAL:HG11	20:AT:78:LEU:HD13	2.02	0.41
11:AK:92:ARG:NH2	21:AU:19:LYS:HG3	2.35	0.41
24:AY:6:ILE:HG12	24:AY:139:LYS:HD3	2.02	0.41
1:BA:1130:A:C4	1:BA:1146:A:C2	3.07	0.41
1:BA:1422:G:C2	1:BA:1423:G:C5	3.08	0.41
1:BA:293:G:C6	1:BA:305:G:C2	3.08	0.41
1:BA:437:U:C2'	4:BD:119:HIS:HD2	2.33	0.41
1:BA:439:U:H2'	1:BA:440:C:O5'	2.20	0.41
1:BA:464:U:C2	1:BA:466:A:OP2	2.74	0.41
1:BA:511:C:H1'	1:BA:512:U:H6	1.85	0.41
1:BA:734:G:H2'	1:BA:735:C:C6	2.54	0.41
1:BA:808:C:H2'	1:BA:809:G:O5'	2.20	0.41
1:BA:723:U:O2'	1:BA:855:U:H4'	2.20	0.41
1:BA:862:C:H2'	1:BA:862:C:O2	2.19	0.41
1:BA:585:G:N3	1:BA:879:C:C5'	2.83	0.41
1:BA:959:A:H5''	1:BA:960:U:OP2	2.20	0.41
2:BB:53:LEU:HD13	2:BB:56:LEU:HD12	2.00	0.41
3:BC:14:VAL:O	3:BC:15:LYS:HB2	2.19	0.41
4:BD:30:LYS:HD3	4:BD:30:LYS:H	1.85	0.41
4:BD:99:ASN:O	4:BD:100:VAL:C	2.57	0.41
7:BG:16:LYS:HD3	7:BG:43:TYR:CE1	2.54	0.41
8:BH:91:LEU:HD21	8:BH:103:VAL:HG11	2.01	0.41
9:BI:18:VAL:O	9:BI:18:VAL:HG12	2.19	0.41
12:BL:35:ARG:HD2	12:BL:53:ARG:NH2	2.35	0.41
13:BM:20:SER:C	13:BM:21:ILE:HD12	2.39	0.41
1:BA:1328:C:H5''	13:BM:27:THR:CB	2.50	0.41
14:BN:13:VAL:HA	14:BN:60:GLN:NE2	2.35	0.41
17:BQ:10:ARG:NH2	17:BQ:55:GLY:HA2	2.35	0.41
21:BU:18:PHE:CD2	21:BU:18:PHE:O	2.73	0.41
51:C0:48:TYR:O	51:C0:49:ARG:HB2	2.20	0.41
51:C0:5:ASN:O	51:C0:7:PRO:HD3	2.20	0.41
25:CA:2286:G:OP1	52:C1:29:LYS:HE3	2.20	0.41
54:C3:14:LYS:HD2	54:C3:22:LYS:HE2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:C4:36:ARG:CG	55:C4:37:GLN:H	2.26	0.41
25:CA:1044:C:H1'	25:CA:1048:A:H1'	2.02	0.41
25:CA:1114:C:O2'	25:CA:1115:G:H5'	2.20	0.41
25:CA:1165:A:O2'	25:CA:1166:G:H5'	2.20	0.41
25:CA:1414:C:C2	25:CA:1415:U:C5	3.08	0.41
25:CA:1415:U:C6	25:CA:1588:G:N1	2.88	0.41
25:CA:1591:A:H2'	25:CA:1592:C:H6	1.84	0.41
25:CA:1606:C:O2'	25:CA:1607:C:C5'	2.67	0.41
25:CA:2031:A:C6	25:CA:2498:C:H1'	2.55	0.41
25:CA:2858:C:H6	25:CA:2858:C:O5'	2.02	0.41
25:CA:2863:C:H2'	25:CA:2863:C:O2	2.19	0.41
25:CA:322:A:H5'	25:CA:340:A:C1'	2.47	0.41
25:CA:416:U:C4	25:CA:417:C:C4	3.08	0.41
25:CA:93:G:C6	25:CA:94:A:C5	3.08	0.41
31:CG:123:GLU:OE1	31:CG:123:GLU:CA	2.66	0.41
32:CH:14:SER:O	32:CH:15:LEU:HB2	2.19	0.41
32:CH:45:GLU:O	32:CH:46:PHE:C	2.59	0.41
32:CH:75:LEU:O	32:CH:76:GLU:HB3	2.20	0.41
33:CI:75:ALA:CB	33:CI:128:ILE:HG23	2.50	0.41
34:CJ:23:LYS:CE	34:CJ:142:ILE:OXT	2.67	0.41
36:CL:101:ILE:O	36:CL:102:GLY:O	2.39	0.41
37:CM:110:GLU:O	37:CM:111:GLU:C	2.57	0.41
38:CN:2:ARG:C	38:CN:2:ARG:HD2	2.39	0.41
38:CN:70:THR:O	38:CN:71:ARG:C	2.58	0.41
45:CU:33:VAL:O	45:CU:64:ILE:HG22	2.19	0.41
49:CY:22:LEU:CG	49:CY:23:ARG:N	2.83	0.41
52:D1:8:ILE:HD11	52:D1:22:THR:HG23	2.01	0.41
25:DA:468:G:OP2	53:D2:37:LYS:NZ	2.53	0.41
25:DA:106:C:O2	25:DA:106:C:H2'	2.19	0.41
25:DA:1035:U:O2	25:DA:1120:G:C6	2.73	0.41
25:DA:1193:G:O2'	25:DA:1194:A:H5'	2.20	0.41
25:DA:1333:G:N2	25:DA:1334:G:C8	2.88	0.41
25:DA:1474:U:H2'	25:DA:1475:G:O5'	2.20	0.41
25:DA:1489:C:N3	25:DA:1501:G:N2	2.68	0.41
25:DA:168:G:N2	25:DA:169:G:H1'	2.34	0.41
25:DA:1750:G:O2'	25:DA:1751:U:H5'	2.20	0.41
25:DA:1796:U:H2'	25:DA:1797:G:H8	1.83	0.41
25:DA:1825:U:H2'	25:DA:1826:G:H8	1.84	0.41
25:DA:1828:G:OP1	60:DA:3460:HOH:O	2.22	0.41
25:DA:1857:G:N9	25:DA:1884:G:N2	2.68	0.41
25:DA:2407:A:H5''	25:DA:2408:U:OP2	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2422:C:C5	25:DA:2424:C:N4	2.88	0.41
25:DA:2428:G:H5''	25:DA:2429:G:P	2.60	0.41
25:DA:2702:G:H2'	25:DA:2703:C:H6	1.84	0.41
25:DA:542:C:H6	25:DA:542:C:OP2	2.03	0.41
25:DA:559:G:H2'	25:DA:560:C:H6	1.85	0.41
25:DA:995:C:OP2	41:DQ:53:LYS:HE3	2.19	0.41
56:DB:50:A:P	39:DO:68:LYS:HG3	2.60	0.41
27:DC:143:VAL:C	27:DC:151:GLY:HA2	2.40	0.41
27:DC:221:GLY:O	27:DC:224:MET:HG3	2.20	0.41
27:DC:47:ARG:O	27:DC:49:THR:HG23	2.19	0.41
27:DC:64:VAL:HB	27:DC:66:PHE:CE1	2.55	0.41
28:DD:173:GLN:OE1	28:DD:208:LYS:HE3	2.20	0.41
28:DD:180:VAL:O	28:DD:180:VAL:CG1	2.68	0.41
28:DD:3:GLY:O	28:DD:4:LEU:HD13	2.20	0.41
29:DE:158:PHE:CD1	29:DE:159:LEU:N	2.88	0.41
30:DF:3:LEU:CD2	30:DF:3:LEU:H	2.24	0.41
31:DG:8:VAL:HG11	31:DG:72:ASN:HA	2.01	0.41
31:DG:85:LYS:O	31:DG:86:LEU:HD12	2.20	0.41
25:DA:1063:G:C2	33:DI:89:SER:OG	2.72	0.41
36:DL:132:ARG:O	36:DL:133:ALA:C	2.58	0.41
37:DM:109:PRO:O	37:DM:112:LEU:N	2.53	0.41
42:DR:61:ALA:HB2	42:DR:98:ILE:HD13	2.02	0.41
43:DS:68:ASP:O	43:DS:109:ASP:HA	2.20	0.41
45:DU:3:LYS:HD3	45:DU:82:VAL:HB	2.01	0.41
1:AA:865:A:H5'	1:AA:1078:U:O4	2.19	0.41
1:AA:1094:G:O2'	60:AA:1863:HOH:O	2.14	0.41
1:AA:1130:A:C1'	1:AA:1146:A:C2	3.02	0.41
1:AA:1134:G:C6	1:AA:1141:C:N4	2.89	0.41
1:AA:1246:A:C6	1:AA:1292:G:C6	3.07	0.41
1:AA:255:G:H2'	1:AA:256:U:O4'	2.21	0.41
1:AA:623:C:N3	1:AA:624:C:C5	2.88	0.41
1:AA:73:C:HO2'	1:AA:74:A:H5''	1.85	0.41
1:AA:948:C:C5	13:AM:104:ASN:OD1	2.73	0.41
1:AA:96:U:C2	1:AA:97:G:C8	3.08	0.41
2:AB:12:GLY:HA3	2:AB:207:ARG:HH22	1.85	0.41
4:AD:115:GLN:HE21	4:AD:115:GLN:CA	2.33	0.41
4:AD:120:LYS:HA	4:AD:122:ILE:CD1	2.50	0.41
4:AD:159:GLU:OE1	4:AD:160:LEU:HD13	2.19	0.41
4:AD:57:LYS:CB	4:AD:199:ILE:CG2	2.95	0.41
4:AD:53:GLN:O	4:AD:202:LEU:HD13	2.20	0.41
5:AE:110:MET:HE3	5:AE:139:THR:HG21	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:130:THR:O	5:AE:131:ASN:C	2.58	0.41
5:AE:20:VAL:O	5:AE:20:VAL:HG22	2.19	0.41
5:AE:37:VAL:HG23	5:AE:47:PHE:HB3	2.01	0.41
5:AE:81:GLN:HB2	5:AE:146:MET:HE2	2.02	0.41
9:AI:33:SER:HB3	9:AI:36:GLN:CB	2.50	0.41
9:AI:33:SER:HB3	9:AI:36:GLN:HB2	2.02	0.41
11:AK:41:LEU:HB2	11:AK:73:VAL:HG12	2.01	0.41
18:AR:51:GLN:HG3	18:AR:51:GLN:O	2.20	0.41
19:AS:39:ILE:HB	19:AS:65:MET:O	2.19	0.41
19:AS:79:TYR:CD2	19:AS:79:TYR:C	2.93	0.41
24:AY:140:VAL:C	24:AY:142:ALA:N	2.73	0.41
1:BA:1029:U:O2	1:BA:1029:U:C2'	2.66	0.41
1:BA:1072:G:C5	1:BA:1073:U:C4	3.07	0.41
1:BA:1130:A:N9	1:BA:1146:A:C2	2.88	0.41
1:BA:429:U:H1'	1:BA:430:A:H5''	2.02	0.41
1:BA:654:G:C2	1:BA:753:A:C4	3.08	0.41
1:BA:799:G:H2'	1:BA:800:G:O4'	2.19	0.41
1:BA:840:C:C2	1:BA:842:U:H5''	2.56	0.41
2:BB:69:VAL:O	2:BB:162:VAL:HA	2.20	0.41
2:BB:181:PRO:O	2:BB:182:VAL:CG2	2.68	0.41
2:BB:80:LYS:CG	2:BB:84:LEU:CD2	2.98	0.41
2:BB:94:ARG:N	2:BB:94:ARG:NE	2.68	0.41
4:BD:3:TYR:O	4:BD:4:LEU:CB	2.67	0.41
5:BE:76:ASN:O	5:BE:77:ASN:CB	2.68	0.41
5:BE:75:LEU:HB3	5:BE:77:ASN:O	2.20	0.41
7:BG:49:LEU:C	7:BG:51:GLN:N	2.72	0.41
8:BH:105:THR:HG21	8:BH:115:ALA:CB	2.49	0.41
9:BI:98:ARG:CA	9:BI:103:VAL:HG11	2.48	0.41
9:BI:11:ARG:HG2	9:BI:73:GLY:HA2	2.02	0.41
9:BI:88:GLU:HG3	9:BI:89:TYR:N	2.35	0.41
13:BM:7:ASN:O	13:BM:9:PRO:HD3	2.21	0.41
14:BN:83:LYS:HE2	14:BN:86:GLU:HG3	2.01	0.41
15:BO:23:SER:O	15:BO:26:VAL:HB	2.20	0.41
15:BO:55:LEU:O	15:BO:58:MET:N	2.53	0.41
6:BF:86:ARG:HD3	18:BR:63:TYR:CZ	2.55	0.41
19:BS:12:LEU:HD22	19:BS:16:LYS:HE3	2.03	0.41
13:BM:84:CYS:CA	19:BS:72:GLU:O	2.65	0.41
20:BT:34:VAL:C	20:BT:36:ALA:N	2.72	0.41
20:BT:53:MET:HE3	20:BT:53:MET:HB2	1.98	0.41
20:BT:66:ILE:HG12	20:BT:70:LYS:HG2	2.02	0.41
21:BU:40:PRO:C	21:BU:42:THR:H	2.22	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BV:26:A:C4	22:BV:27:G:C8	3.08	0.41
52:C1:9:LYS:C	52:C1:10:LEU:HD23	2.41	0.41
25:CA:1088:A:N3	25:CA:1088:A:C5'	2.83	0.41
25:CA:1139:G:O3'	34:CJ:26:GLY:HA3	2.20	0.41
25:CA:1355:G:H2'	25:CA:1356:G:O5'	2.20	0.41
25:CA:1840:G:C2'	25:CA:1841:U:H5'	2.50	0.41
25:CA:189:G:OP1	48:CX:25:LYS:HD2	2.19	0.41
25:CA:2017:U:H4'	51:C0:4:GLN:O	2.19	0.41
25:CA:2170:A:H1'	25:CA:2171:A:C8	2.56	0.41
25:CA:2232:C:O2	25:CA:2232:C:C2'	2.64	0.41
25:CA:2255:G:H2'	25:CA:2256:G:H5'	2.03	0.41
25:CA:2309:A:C6	25:CA:2310:C:C4	3.08	0.41
25:CA:2508:G:HO2'	25:CA:2554:U:HO2'	1.67	0.41
25:CA:2758:A:H2'	25:CA:2759:G:H5'	2.02	0.41
25:CA:28:A:C2'	25:CA:29:U:H5'	2.50	0.41
25:CA:360:U:O2	25:CA:360:U:H2'	2.21	0.41
25:CA:196:A:C2'	25:CA:805:G:O6	2.69	0.41
26:CB:30:C:OP1	39:CO:3:LYS:NZ	2.52	0.41
27:CC:124:LYS:CB	27:CC:125:PRO:CD	2.98	0.41
27:CC:270:ARG:CG	27:CC:270:ARG:HH11	2.33	0.41
28:CD:62:LYS:N	28:CD:63:PRO:HD2	2.34	0.41
29:CE:130:LYS:HA	29:CE:130:LYS:HD3	1.89	0.41
29:CE:143:LEU:HB3	29:CE:146:VAL:HG11	2.01	0.41
29:CE:196:VAL:O	29:CE:200:LEU:HD23	2.20	0.41
30:CF:162:ASP:O	30:CF:163:GLU:C	2.58	0.41
30:CF:3:LEU:HG	30:CF:100:GLU:HG3	2.01	0.41
31:CG:10:VAL:O	31:CG:10:VAL:CG2	2.68	0.41
31:CG:59:ASP:O	31:CG:61:TRP:N	2.53	0.41
31:CG:76:ILE:HD13	31:CG:76:ILE:N	2.35	0.41
33:CI:66:PHE:CD1	33:CI:68:PHE:CE1	3.08	0.41
36:CL:110:VAL:CA	36:CL:111:ILE:HD12	2.51	0.41
37:CM:7:THR:O	37:CM:8:LYS:C	2.57	0.41
43:CS:31:GLN:O	43:CS:35:ILE:HG12	2.19	0.41
45:CU:39:ASN:CB	45:CU:62:ALA:O	2.68	0.41
51:D0:6:LYS:HA	51:D0:7:PRO:HD3	1.86	0.41
54:D3:21:PHE:O	54:D3:49:VAL:HG23	2.20	0.41
25:DA:1011:G:C2	25:DA:1151:A:N3	2.88	0.41
25:DA:1018:U:C2'	25:DA:1019:U:H5'	2.50	0.41
25:DA:1062:G:C3'	25:DA:1063:G:C8	3.03	0.41
25:DA:1135:C:C2'	25:DA:1136:G:OP1	2.68	0.41
25:DA:1157:G:H2'	25:DA:1158:C:C6	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1319:C:O2	25:DA:1334:G:C2	2.73	0.41
25:DA:1474:U:C2'	25:DA:1475:G:H5'	2.49	0.41
25:DA:1557:C:H2'	25:DA:1558:C:C5	2.55	0.41
25:DA:1606:C:C3'	25:DA:1606:C:C6	3.02	0.41
25:DA:1606:C:H2'	25:DA:1607:C:OP2	2.19	0.41
25:DA:1723:G:O2'	25:DA:1724:G:H5'	2.20	0.41
25:DA:1744:A:C8	25:DA:1745:A:N7	2.88	0.41
25:DA:1845:G:OP1	27:DC:255:LYS:HE3	2.20	0.41
25:DA:1946:U:O2'	25:DA:1947:C:H5'	2.19	0.41
25:DA:2195:U:C2	25:DA:2196:C:C5	3.08	0.41
25:DA:2306:C:C5	25:DA:2307:G:H2'	2.55	0.41
25:DA:2392:A:C8	25:DA:2429:G:C2	3.09	0.41
25:DA:2898:U:O2	34:DJ:134:ALA:HB1	2.20	0.41
25:DA:36:G:N3	25:DA:450:G:O2'	2.51	0.41
25:DA:616:A:H4'	29:DE:101:TYR:CE2	2.55	0.41
25:DA:826:U:H2'	25:DA:828:U:O4'	2.20	0.41
25:DA:864:G:N2	25:DA:913:U:C2	2.88	0.41
56:DB:71:C:H2'	56:DB:72:G:H5'	2.01	0.41
56:DB:7:G:H5'	39:DO:29:HIS:ND1	2.35	0.41
27:DC:70:LYS:HB3	27:DC:95:TYR:CE2	2.56	0.41
28:DD:45:TYR:CD1	28:DD:45:TYR:C	2.91	0.41
29:DE:127:GLU:OE1	29:DE:127:GLU:CA	2.68	0.41
29:DE:14:VAL:HB	29:DE:197:GLU:OE1	2.20	0.41
29:DE:5:LEU:N	29:DE:5:LEU:HD12	2.35	0.41
13:BM:6:ILE:CD1	30:DF:111:ARG:HD3	2.50	0.41
30:DF:39:VAL:H	30:DF:85:GLY:HA2	1.84	0.41
30:DF:92:GLY:O	30:DF:95:MET:N	2.53	0.41
25:DA:2093:G:H4'	32:DH:25:TYR:N	2.35	0.41
32:DH:59:ALA:O	32:DH:60:GLU:C	2.58	0.41
34:DJ:119:PHE:C	34:DJ:121:LYS:N	2.73	0.41
34:DJ:7:LYS:HA	34:DJ:8:PRO:HD3	1.88	0.41
39:DO:41:ALA:HB1	39:DO:43:ASN:ND2	2.35	0.41
39:DO:40:ILE:HA	39:DO:47:VAL:HA	2.01	0.41
41:DQ:65:ASN:O	41:DQ:66:ALA:C	2.57	0.41
42:DR:69:GLY:O	42:DR:70:GLU:C	2.59	0.41
44:DT:18:GLU:CD	44:DT:18:GLU:N	2.73	0.41
45:DU:62:ALA:O	45:DU:63:ALA:C	2.57	0.41
45:DU:73:ASN:O	45:DU:74:ALA:HB3	2.19	0.41
45:DU:73:ASN:OD1	45:DU:75:ALA:HB3	2.20	0.41
49:DY:35:GLY:O	49:DY:36:GLN:HG2	2.20	0.41
49:DY:6:LEU:HA	49:DY:56:LEU:HD13	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DZ:2:LYS:O	50:DZ:3:THR:O	2.38	0.41
1:AA:1092:A:N6	1:AA:1093:A:N6	2.68	0.41
1:AA:1131:G:H22	1:AA:1144:G:H4'	1.85	0.41
1:AA:1233:G:H2'	1:AA:1234:C:H6	1.85	0.41
1:AA:190:A:H8	1:AA:190:A:H3'	1.85	0.41
1:AA:22:G:C5	1:AA:23:C:C4	3.08	0.41
1:AA:243:A:N1	1:AA:246:A:C8	2.89	0.41
1:AA:267:C:OP1	17:AQ:68:LYS:HB2	2.20	0.41
1:AA:375:U:OP1	16:AP:70:ARG:NH1	2.53	0.41
1:AA:416:G:C2'	1:AA:417:G:H5'	2.50	0.41
2:AB:110:ILE:O	2:AB:113:LEU:N	2.53	0.41
2:AB:129:THR:CG2	2:AB:131:LYS:HB3	2.50	0.41
2:AB:14:HIS:CD2	2:AB:15:PHE:N	2.87	0.41
3:AC:163:ARG:O	3:AC:164:THR:HG23	2.20	0.41
4:AD:8:LEU:C	4:AD:10:LEU:N	2.74	0.41
4:AD:8:LEU:HD22	4:AD:21:LYS:HB2	2.02	0.41
5:AE:31:SER:C	5:AE:32:PHE:CD2	2.94	0.41
6:AF:18:VAL:HG21	6:AF:58:HIS:CE1	2.55	0.41
7:AG:108:ARG:HE	7:AG:108:ARG:HA	1.84	0.41
7:AG:75:LYS:HB3	7:AG:88:VAL:HG11	2.01	0.41
9:AI:16:ALA:HB2	9:AI:66:VAL:CG2	2.50	0.41
9:AI:20:ILE:HG22	9:AI:21:LYS:N	2.35	0.41
9:AI:24:ASN:O	9:AI:60:LEU:C	2.58	0.41
9:AI:48:ARG:C	9:AI:50:PRO:HD2	2.40	0.41
10:AJ:33:GLY:O	10:AJ:34:ALA:CB	2.68	0.41
10:AJ:41:PRO:O	10:AJ:42:LEU:CB	2.68	0.41
11:AK:41:LEU:CB	11:AK:73:VAL:HG12	2.50	0.41
12:AL:116:TYR:N	12:AL:116:TYR:CD1	2.87	0.41
15:AO:44:GLU:O	15:AO:45:HIS:HB2	2.19	0.41
17:AQ:43:LEU:HA	17:AQ:43:LEU:HD23	1.82	0.41
1:BA:1004:A:H5'	1:BA:1025:U:O2	2.20	0.41
1:BA:1220:G:C4	1:BA:1221:G:C8	3.07	0.41
1:BA:1250:A:C5	1:BA:1287:A:C5	3.08	0.41
1:BA:1305:G:H21	1:BA:1332:A:H2	1.67	0.41
1:BA:1445:U:C2'	1:BA:1446:A:OP2	2.68	0.41
1:BA:1491:G:O2'	1:BA:1492:A:O5'	2.25	0.41
1:BA:174:A:H2'	1:BA:175:C:H5'	2.02	0.41
1:BA:17:U:N3	1:BA:18:C:C4	2.88	0.41
1:BA:17:U:H2'	1:BA:17:U:O2	2.18	0.41
1:BA:201:G:O6	1:BA:216:U:O2	2.37	0.41
1:BA:234:C:H2'	1:BA:235:C:H6	1.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:376:G:N3	1:BA:377:G:C8	2.88	0.41
1:BA:468:A:N7	1:BA:469:C:C2	2.88	0.41
1:BA:575:G:C8	1:BA:881:G:N2	2.88	0.41
1:BA:671:G:C4	1:BA:672:U:C6	3.08	0.41
1:BA:827:U:H5''	1:BA:828:U:OP2	2.19	0.41
1:BA:976:G:H5'	1:BA:977:A:OP1	2.19	0.41
4:BD:58:GLN:O	4:BD:59:LYS:C	2.58	0.41
7:BG:115:MET:CA	7:BG:118:ARG:HD3	2.50	0.41
8:BH:25:THR:O	8:BH:26:MET:HB3	2.21	0.41
9:BI:29:ILE:HB	9:BI:64:ILE:HD11	2.02	0.41
13:BM:88:LEU:O	13:BM:89:ARG:C	2.58	0.41
19:BS:13:HIS:O	19:BS:17:LYS:CD	2.68	0.41
1:BA:1223:C:OP1	19:BS:77:ARG:NH1	2.53	0.41
20:BT:32:LYS:O	20:BT:35:TYR:HD2	2.04	0.41
20:BT:6:ALA:O	20:BT:9:ARG:HB2	2.20	0.41
21:BU:25:ALA:CB	23:BX:8:A:C5'	2.89	0.41
52:C1:34:GLU:HA	52:C1:48:TYR:O	2.20	0.41
53:C2:21:ARG:O	53:C2:27:GLY:HA3	2.20	0.41
25:CA:1056:G:H5''	25:CA:1057:A:H5'	2.02	0.41
25:CA:1056:G:C4'	25:CA:1086:A:H8	2.33	0.41
25:CA:1101:U:H2'	25:CA:1101:U:O2	2.20	0.41
25:CA:1103:A:N7	25:CA:1104:C:C5	2.89	0.41
25:CA:126:A:C5	53:C2:18:PHE:CD2	3.09	0.41
25:CA:1293:C:C4	25:CA:1294:U:C5	3.08	0.41
25:CA:1407:G:O2'	25:CA:1408:G:H5'	2.20	0.41
25:CA:1428:C:O2'	25:CA:1569:A:OP2	2.31	0.41
25:CA:1588:G:C6	25:CA:1589:U:C5	3.09	0.41
25:CA:1631:G:N2	25:CA:1633:G:H3'	2.34	0.41
25:CA:1748:C:C4	25:CA:1749:A:N7	2.88	0.41
25:CA:1754:A:C6	25:CA:1755:A:C6	3.08	0.41
25:CA:1909:C:O2	25:CA:1909:C:H2'	2.21	0.41
25:CA:2173:A:C3'	25:CA:2174:C:H6	2.33	0.41
25:CA:2317:A:C2'	25:CA:2318:G:H5'	2.51	0.41
25:CA:2332:C:H5''	25:CA:2333:A:P	2.60	0.41
25:CA:2469:A:H4'	37:CM:55:ARG:NH2	2.34	0.41
25:CA:747:U:C5	25:CA:2613:U:C5	3.08	0.41
25:CA:2663:G:H2'	25:CA:2664:G:O5'	2.21	0.41
25:CA:2882:A:H2'	25:CA:2883:A:O5'	2.19	0.41
25:CA:404:A:C2'	25:CA:405:U:OP2	2.69	0.41
25:CA:417:C:C2	25:CA:418:C:C6	3.09	0.41
25:CA:434:U:H1'	25:CA:435:C:H5	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:883:G:H22	25:CA:894:U:H1'	1.85	0.41
26:CB:85:G:C2'	26:CB:86:G:O5'	2.68	0.41
28:CD:4:LEU:CD2	28:CD:100:LEU:HD23	2.47	0.41
29:CE:75:SER:O	29:CE:81:GLY:HA3	2.21	0.41
33:CI:58:ILE:HG22	33:CI:60:VAL:HG23	2.02	0.41
34:CJ:46:PRO:HD3	41:CQ:59:LEU:HD13	2.03	0.41
37:CM:123:LYS:N	37:CM:123:LYS:HD3	2.34	0.41
37:CM:124:LEU:HD23	37:CM:124:LEU:HA	1.84	0.41
38:CN:115:LEU:HA	38:CN:115:LEU:HD23	1.81	0.41
43:CS:48:LYS:CG	43:CS:48:LYS:O	2.68	0.41
44:CT:28:ASN:OD1	44:CT:91:GLN:HB3	2.19	0.41
45:CU:71:ILE:CD1	45:CU:82:VAL:HG23	2.49	0.41
46:CV:1:MET:HG3	46:CV:2:PHE:N	2.35	0.41
49:CY:22:LEU:HD12	49:CY:23:ARG:N	2.35	0.41
52:D1:34:GLU:O	52:D1:35:LEU:HG	2.20	0.41
25:DA:1025:G:C4	25:DA:1135:C:O4'	2.73	0.41
25:DA:1057:A:N1	25:DA:1058:U:C4	2.88	0.41
25:DA:1027:A:N1	25:DA:1126:A:C1'	2.84	0.41
25:DA:1173:U:C6	25:DA:1173:U:OP2	2.74	0.41
25:DA:1171:G:H1	25:DA:1177:G:H1	1.67	0.41
25:DA:1441:G:H2'	25:DA:1442:U:C6	2.55	0.41
25:DA:1508:A:C2'	25:DA:1509:A:O5'	2.68	0.41
25:DA:1590:A:C2'	25:DA:1591:A:H8	2.30	0.41
25:DA:1598:A:C6	25:DA:1599:U:C2	3.08	0.41
25:DA:1272:A:C5	25:DA:1618:A:H1'	2.54	0.41
25:DA:1744:A:H3'	25:DA:1745:A:C8	2.53	0.41
25:DA:1805:A:C2	25:DA:1813:G:C2	3.09	0.41
25:DA:2116:G:C5'	25:DA:2117:A:OP2	2.68	0.41
25:DA:239:C:N4	25:DA:240:C:N3	2.68	0.41
25:DA:2701:U:H5''	25:DA:2702:G:C5'	2.47	0.41
25:DA:2856:A:C2'	25:DA:2857:G:H5'	2.50	0.41
25:DA:297:G:H8	25:DA:297:G:O5'	2.03	0.41
25:DA:42:A:C2	25:DA:438:G:C2	3.09	0.41
25:DA:96:C:H4'	49:DY:41:HIS:ND1	2.35	0.41
30:DF:121:PHE:O	30:DF:122:ASP:C	2.58	0.41
30:DF:53:ALA:O	30:DF:55:ASP:N	2.54	0.41
30:DF:64:PRO:HB3	30:DF:88:VAL:HG23	2.01	0.41
31:DG:75:VAL:O	31:DG:77:GLY:N	2.54	0.41
32:DH:15:LEU:CD2	32:DH:15:LEU:N	2.84	0.41
32:DH:1:MET:HE2	32:DH:23:ALA:CA	2.50	0.41
33:DI:135:MET:HG3	33:DI:137:LEU:CD1	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:44:LYS:O	33:DI:48:ILE:CG1	2.69	0.41
33:DI:44:LYS:O	33:DI:48:ILE:HG13	2.19	0.41
33:DI:56:VAL:HG23	33:DI:70:THR:CA	2.49	0.41
35:DK:73:ASP:OD1	35:DK:75:SER:HB2	2.20	0.41
38:DN:37:THR:OG1	38:DN:39:PRO:HD2	2.20	0.41
39:DO:21:LEU:HA	39:DO:21:LEU:HD23	1.85	0.41
42:DR:10:LYS:O	42:DR:12:HIS:CE1	2.73	0.41
44:DT:2:ILE:CG2	44:DT:4:GLU:HG2	2.50	0.41
45:DU:38:ILE:N	45:DU:40:LEU:HD21	2.34	0.41
45:DU:88:ASP:HB3	45:DU:90:LYS:HG2	2.01	0.41
1:AA:1072:G:C5	1:AA:1073:U:C4	3.08	0.41
1:AA:1137:C:H1'	1:AA:1138:G:N2	2.35	0.41
1:AA:956:U:C2	1:AA:1225:A:C2	3.08	0.41
1:AA:1294:G:C4	1:AA:1295:U:C5	3.08	0.41
1:AA:1309:G:C2	1:AA:1329:A:C4	3.09	0.41
1:AA:1253:G:O2'	1:AA:1356:G:H4'	2.20	0.41
1:AA:1480:A:C6	1:AA:1481:U:C4	3.08	0.41
1:AA:199:A:C2	1:AA:200:G:C8	3.09	0.41
1:AA:273:U:O4	1:AA:274:A:N6	2.53	0.41
1:AA:382:A:N1	1:AA:383:A:C6	2.88	0.41
1:AA:380:G:C2	1:AA:384:G:C6	3.07	0.41
1:AA:456:A:C2	1:AA:477:C:O2	2.73	0.41
1:AA:481:G:C5'	1:AA:481:G:C8	2.97	0.41
1:AA:696:A:H2'	1:AA:697:U:C6	2.55	0.41
1:AA:730:G:N2	1:AA:765:G:H5''	2.35	0.41
1:AA:87:C:H2'	1:AA:88:U:C4'	2.50	0.41
1:AA:962:C:H2'	1:AA:963:G:O4'	2.21	0.41
2:AB:142:LYS:C	2:AB:144:GLU:N	2.74	0.41
3:AC:112:ALA:O	3:AC:113:LYS:C	2.57	0.41
3:AC:199:VAL:O	3:AC:199:VAL:CG2	2.65	0.41
3:AC:41:TYR:CZ	3:AC:45:GLU:HG3	2.55	0.41
5:AE:122:VAL:HG23	5:AE:122:VAL:O	2.20	0.41
7:AG:68:VAL:HA	7:AG:137:ARG:NE	2.35	0.41
8:AH:20:ASN:HA	8:AH:64:TYR:OH	2.20	0.41
9:AI:29:ILE:CG2	9:AI:34:LEU:HD12	2.49	0.41
9:AI:30:ASN:HB2	9:AI:37:TYR:CE1	2.56	0.41
9:AI:43:ALA:O	9:AI:46:VAL:HG22	2.19	0.41
9:AI:48:ARG:NH2	9:AI:52:GLU:HA	2.35	0.41
11:AK:52:ARG:H	11:AK:55:ARG:HG3	1.86	0.41
13:AM:52:ILE:CG2	13:AM:56:ARG:NH2	2.84	0.41
14:AN:64:CYS:HB2	14:AN:80:SER:H	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:33:ARG:NE	21:AU:34:ARG:HB2	2.34	0.41
21:AU:43:GLU:HB3	21:AU:44:ARG:NH1	2.35	0.41
22:AV:10:G:H2'	22:AV:11:C:C6	2.55	0.41
1:BA:1088:G:C2	1:BA:1089:G:C5	3.08	0.41
1:BA:108:G:N2	1:BA:109:A:C2	2.88	0.41
1:BA:1138:G:C4	1:BA:1140:C:C6	3.08	0.41
1:BA:1324:A:N6	1:BA:1325:C:N4	2.69	0.41
1:BA:35:G:H2'	1:BA:36:C:H6	1.85	0.41
1:BA:430:A:OP1	4:BD:8:LEU:HB2	2.20	0.41
1:BA:49:U:C5	1:BA:364:A:C6	3.08	0.41
1:BA:580:C:H2'	1:BA:581:G:O4'	2.20	0.41
1:BA:613:C:C2'	1:BA:614:C:H5'	2.50	0.41
1:BA:645:G:C2	1:BA:646:G:C8	3.08	0.41
1:BA:712:A:H2'	1:BA:713:G:O5'	2.19	0.41
1:BA:908:A:C2	1:BA:909:A:C4	3.08	0.41
1:BA:936:C:C5	1:BA:937:A:N7	2.87	0.41
2:BB:137:THR:C	2:BB:139:GLU:N	2.73	0.41
2:BB:139:GLU:O	2:BB:143:LEU:HD23	2.19	0.41
2:BB:53:LEU:CA	2:BB:56:LEU:HB3	2.48	0.41
4:BD:40:HIS:C	4:BD:42:ALA:N	2.72	0.41
5:BE:152:VAL:C	5:BE:154:ALA:N	2.73	0.41
6:BF:81:ASN:HD21	6:BF:83:ALA:HB3	1.85	0.41
7:BG:135:LYS:O	7:BG:139:ASP:HB2	2.20	0.41
7:BG:137:ARG:HG2	7:BG:137:ARG:O	2.21	0.41
9:BI:7:GLY:HA3	9:BI:84:ARG:HB3	2.01	0.41
11:BK:81:LEU:HD13	11:BK:104:PHE:CZ	2.55	0.41
12:BL:21:PRO:O	12:BL:23:LEU:N	2.54	0.41
12:BL:73:LEU:N	12:BL:73:LEU:HD22	2.36	0.41
15:BO:45:HIS:C	15:BO:47:LYS:H	2.23	0.41
15:BO:24:THR:HG23	15:BO:65:LEU:HD12	2.02	0.41
17:BQ:20:ILE:HA	17:BQ:20:ILE:HD12	1.82	0.41
17:BQ:27:PHE:C	17:BQ:28:VAL:HG12	2.40	0.41
18:BR:33:THR:HG23	18:BR:36:GLY:N	2.36	0.41
21:BU:39:LYS:HB3	21:BU:40:PRO:HD3	2.03	0.41
51:C0:33:SER:OG	51:C0:35:GLU:CG	2.68	0.41
53:C2:1:MET:HB2	53:C2:1:MET:HE2	1.94	0.41
55:C4:14:CYS:HA	55:C4:26:ILE:O	2.20	0.41
25:CA:108:G:O2'	25:CA:109:C:H5'	2.20	0.41
25:CA:1104:C:N3	25:CA:1105:U:C5	2.88	0.41
25:CA:1287:A:OP2	38:CN:103:ARG:HG3	2.20	0.41
25:CA:1427:A:C2	25:CA:1570:A:OP2	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1467:U:C5	25:CA:1546:G:N3	2.89	0.41
25:CA:1494:A:N6	25:CA:1495:A:N1	2.68	0.41
22:AV:71:G:H4'	25:CA:1892:C:O2	2.20	0.41
25:CA:1983:G:O2'	25:CA:1984:G:H5'	2.21	0.41
25:CA:2135:A:N6	25:CA:2156:G:O2'	2.54	0.41
25:CA:2141:G:N2	25:CA:2142:A:H1'	2.35	0.41
25:CA:2133:G:H1'	25:CA:2158:A:H61	1.85	0.41
25:CA:2193:G:C5	25:CA:2194:U:C5	3.08	0.41
25:CA:2329:U:H2'	25:CA:2330:G:O4'	2.20	0.41
25:CA:2634:A:H5''	25:CA:2634:A:H8	1.85	0.41
25:CA:2654:A:O4'	25:CA:2656:U:H1'	2.20	0.41
25:CA:2678:C:H2'	25:CA:2679:A:O4'	2.21	0.41
25:CA:2716:C:H6	25:CA:2716:C:H5''	1.85	0.41
25:CA:443:A:C2	25:CA:1245:G:N3	2.88	0.41
25:CA:545:U:O2	25:CA:545:U:OP2	2.38	0.41
25:CA:612:G:H2'	25:CA:614:A:C8	2.55	0.41
25:CA:837:C:H6	25:CA:837:C:O5'	2.03	0.41
25:CA:84:A:H4'	25:CA:85:G:O5'	2.20	0.41
25:CA:901:C:H2'	25:CA:901:C:O2	2.20	0.41
25:CA:1792:G:OP1	27:CC:204:LEU:HB2	2.20	0.41
25:CA:1824:G:O2'	27:CC:245:THR:HG22	2.20	0.41
28:CD:133:THR:HG23	28:CD:134:HIS:N	2.36	0.41
28:CD:46:ARG:HB3	28:CD:84:LEU:HB2	2.01	0.41
30:CF:105:ILE:O	30:CF:108:PRO:HD2	2.20	0.41
30:CF:6:TYR:C	30:CF:6:TYR:CD2	2.93	0.41
30:CF:46:LYS:HZ3	30:CF:83:PRO:HG2	1.86	0.41
31:CG:156:TYR:CE2	31:CG:171:LYS:HG3	2.55	0.41
31:CG:86:LEU:HD12	31:CG:86:LEU:H	1.86	0.41
33:CI:85:ILE:N	33:CI:85:ILE:HD12	2.35	0.41
34:CJ:61:LYS:O	34:CJ:62:VAL:C	2.58	0.41
35:CK:58:LEU:HD22	35:CK:58:LEU:H	1.84	0.41
35:CK:77:ILE:CG2	35:CK:78:ARG:N	2.83	0.41
25:CA:2485:G:H5''	37:CM:45:GLN:NE2	2.35	0.41
38:CN:103:ARG:HB3	38:CN:106:ASP:OD1	2.20	0.41
39:CO:67:ASN:HA	39:CO:102:ARG:HD3	2.02	0.41
40:CP:33:GLU:HB2	40:CP:36:LYS:HB2	2.01	0.41
40:CP:80:VAL:CG1	40:CP:83:ILE:HD11	2.47	0.41
45:CU:48:VAL:O	45:CU:48:VAL:HG13	2.20	0.41
52:D1:12:SER:HB2	52:D1:48:TYR:CZ	2.54	0.41
25:DA:1315:C:C2	25:DA:1316:U:C6	3.08	0.41
25:DA:1347:A:C2'	25:DA:1348:C:O5'	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1446:C:C2'	25:DA:1447:C:H5'	2.50	0.41
25:DA:1581:G:H2'	25:DA:1582:C:C6	2.55	0.41
25:DA:158:U:O2	25:DA:169:G:C2	2.73	0.41
25:DA:1652:A:OP1	38:DN:8:ARG:HD3	2.19	0.41
25:DA:1660:G:H8	25:DA:1660:G:H5''	1.86	0.41
25:DA:1790:C:C6	25:DA:1828:G:N2	2.89	0.41
25:DA:1895:C:O5'	25:DA:1895:C:H6	2.03	0.41
25:DA:191:A:H1'	25:DA:679:C:H1'	2.02	0.41
25:DA:1963:U:C3'	25:DA:1963:U:C6	3.03	0.41
25:DA:2111:U:H4'	25:DA:2112:G:OP1	2.19	0.41
25:DA:224:U:C2'	25:DA:225:C:O5'	2.69	0.41
25:DA:2395:C:H2'	25:DA:2396:G:O4'	2.20	0.41
25:DA:2784:U:C2'	25:DA:2785:C:H5'	2.51	0.41
25:DA:501:A:C6	25:DA:502:A:C6	3.08	0.41
25:DA:616:A:C2'	25:DA:617:G:H5'	2.49	0.41
25:DA:634:C:OP1	36:DL:70:LYS:HE2	2.20	0.41
25:DA:736:C:H2'	25:DA:737:C:C6	2.55	0.41
25:DA:760:G:H4'	25:DA:1776:G:OP1	2.20	0.41
25:DA:88:G:C2'	25:DA:89:A:C5'	2.98	0.41
56:DB:33:G:H2'	56:DB:34:A:O5'	2.15	0.41
28:DD:51:THR:OG1	28:DD:52:THR:N	2.52	0.41
31:DG:83:THR:HG23	31:DG:132:LEU:O	2.21	0.41
32:DH:12:LEU:HG	32:DH:13:GLY:N	2.35	0.41
32:DH:27:ARG:HA	32:DH:27:ARG:HD3	1.92	0.41
33:DI:79:LEU:HD13	33:DI:135:MET:CE	2.51	0.41
38:DN:52:ILE:CG2	38:DN:94:TYR:CD2	3.04	0.41
39:DO:32:PRO:HA	39:DO:102:ARG:NH1	2.34	0.41
39:DO:61:GLN:C	39:DO:62:LEU:HG	2.40	0.41
40:DP:90:ALA:HB2	40:DP:112:ARG:HG3	2.02	0.41
40:DP:4:ILE:O	40:DP:5:LYS:C	2.56	0.41
1:AA:1068:G:O2'	1:AA:1069:C:H5'	2.21	0.41
1:AA:1160:G:C6	1:AA:1181:G:O6	2.74	0.41
1:AA:1186:G:C2'	1:AA:1187:G:O5'	2.69	0.41
1:AA:1317:C:C2'	1:AA:1318:A:O5'	2.68	0.41
1:AA:1325:C:C2'	1:AA:1326:U:H5'	2.50	0.41
1:AA:131:A:C2	1:AA:132:C:C4	3.08	0.41
1:AA:1300:G:C4	1:AA:1334:G:O6	2.73	0.41
1:AA:1451:U:H3'	1:AA:1452:C:H6	1.86	0.41
1:AA:1495:U:O2	1:AA:1495:U:H2'	2.20	0.41
1:AA:164:G:H2'	1:AA:165:G:C5'	2.49	0.41
1:AA:410:G:C5'	1:AA:411:A:P	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:G:H2'	1:AA:543:U:C6	2.53	0.41
1:AA:704:A:C2	1:AA:705:G:H1'	2.56	0.41
1:AA:958:A:C5	19:AS:54:ARG:HG2	2.55	0.41
2:AB:122:ASP:O	2:AB:123:GLY:C	2.59	0.41
3:AC:156:LEU:C	3:AC:158:GLY:H	2.24	0.41
7:AG:94:ARG:O	7:AG:97:ALA:N	2.54	0.41
8:AH:88:LYS:HA	8:AH:91:LEU:HG	2.01	0.41
1:AA:503:C:OP2	12:AL:112:ALA:HB2	2.20	0.41
17:AQ:62:GLU:HB2	17:AQ:72:TRP:CZ3	2.55	0.41
17:AQ:78:VAL:O	17:AQ:79:GLU:HB2	2.21	0.41
24:AY:114:LEU:N	24:AY:114:LEU:HD12	2.36	0.41
24:AY:114:LEU:O	24:AY:117:ILE:HB	2.20	0.41
24:AY:40:GLY:O	24:AY:41:ILE:C	2.57	0.41
1:BA:988:G:H1'	1:BA:1015:G:H22	1.86	0.41
1:BA:1053:G:N7	1:BA:1199:U:C3'	2.74	0.41
1:BA:1109:C:H2'	1:BA:1109:C:O2	2.20	0.41
1:BA:1135:U:O2	1:BA:1135:U:H2'	2.20	0.41
1:BA:1197:A:OP2	1:BA:1197:A:H3'	2.20	0.41
1:BA:1273:C:C2	1:BA:1274:A:C8	3.08	0.41
1:BA:1317:C:C4	14:BN:53:ARG:HD3	2.55	0.41
1:BA:1337:G:C5'	1:BA:1338:G:OP1	2.68	0.41
1:BA:144:G:C2'	1:BA:145:G:O5'	2.69	0.41
1:BA:560:A:H4'	1:BA:561:U:C5'	2.49	0.41
1:BA:892:A:O2'	1:BA:1415:G:H4'	2.21	0.41
1:BA:893:C:H2'	1:BA:894:G:C8	2.55	0.41
1:BA:963:G:O2'	1:BA:964:A:H5'	2.21	0.41
1:BA:980:C:H4'	14:BN:59:ARG:NH1	2.35	0.41
2:BB:102:ASN:O	2:BB:102:ASN:CG	2.59	0.41
2:BB:219:THR:N	2:BB:221:ARG:HD3	2.32	0.41
3:BC:119:ILE:HA	3:BC:122:GLN:HE21	1.86	0.41
3:BC:84:GLU:CG	3:BC:85:LYS:N	2.83	0.41
4:BD:152:SER:O	4:BD:154:VAL:N	2.54	0.41
4:BD:60:VAL:O	4:BD:61:ARG:C	2.59	0.41
5:BE:92:ARG:C	5:BE:93:VAL:HG23	2.40	0.41
7:BG:39:GLU:O	7:BG:43:TYR:CD2	2.73	0.41
7:BG:77:ARG:HG3	7:BG:86:VAL:HG21	2.02	0.41
8:BH:115:ALA:HA	8:BH:118:ALA:CB	2.48	0.41
9:BI:45:MET:O	9:BI:48:ARG:HB3	2.21	0.41
10:BJ:35:GLN:O	10:BJ:36:VAL:CB	2.68	0.41
12:BL:39:THR:HG22	12:BL:40:THR:O	2.21	0.41
12:BL:3:VAL:HG13	12:BL:4:ASN:H	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:103:THR:O	13:BM:104:ASN:C	2.59	0.41
1:BA:1302:C:N4	13:BM:16:ILE:HD11	2.35	0.41
1:BA:1317:C:OP1	14:BN:57:PRO:HD2	2.20	0.41
14:BN:93:ILE:HG21	14:BN:96:LEU:CB	2.50	0.41
15:BO:44:GLU:CG	15:BO:45:HIS:N	2.83	0.41
16:BP:38:PHE:CE2	16:BP:51:ARG:HB3	2.56	0.41
16:BP:6:LEU:HB3	16:BP:17:TYR:HB3	2.00	0.41
20:BT:36:ALA:O	20:BT:37:ALA:C	2.57	0.41
20:BT:59:ARG:O	20:BT:59:ARG:HG2	2.20	0.41
22:BV:66:U:H2'	22:BV:67:C:O4'	2.20	0.41
51:C0:29:VAL:CG1	51:C0:34:GLY:HA2	2.51	0.41
25:CA:242:G:P	54:C3:2:LYS:HE2	2.60	0.41
25:CA:1350:C:C2	25:CA:1382:G:C2	3.09	0.41
25:CA:1533:C:C2'	25:CA:1533:C:O2	2.69	0.41
25:CA:1628:G:H2'	25:CA:1629:U:O5'	2.20	0.41
25:CA:1936:A:C2	25:CA:1943:U:N3	2.81	0.41
25:CA:2281:A:C2'	25:CA:2282:G:H5'	2.50	0.41
25:CA:2345:G:H5'	25:CA:2347:C:O4'	2.19	0.41
25:CA:1864:U:OP1	25:CA:2411:A:H5'	2.20	0.41
25:CA:2560:A:H2'	25:CA:2561:U:O4'	2.21	0.41
25:CA:340:A:H2'	25:CA:341:C:O4'	2.20	0.41
25:CA:498:G:HO2'	45:CU:44:HIS:CE1	2.37	0.41
25:CA:760:G:H2'	25:CA:761:A:O4'	2.20	0.41
25:CA:782:A:C2	27:CC:224:MET:SD	3.13	0.41
30:CF:147:ARG:CG	30:CF:148:VAL:H	2.33	0.41
30:CF:157:THR:HG22	30:CF:159:ALA:HB3	2.01	0.41
30:CF:157:THR:CG2	30:CF:159:ALA:H	2.29	0.41
33:CI:96:LYS:CG	33:CI:138:VAL:HG22	2.40	0.41
38:CN:21:PHE:CD2	38:CN:24:MET:HE2	2.55	0.41
40:CP:19:PHE:C	40:CP:19:PHE:CD1	2.93	0.41
40:CP:6:GLN:O	40:CP:6:GLN:HG2	2.20	0.41
40:CP:86:LYS:O	40:CP:87:ARG:HB2	2.20	0.41
45:CU:80:ASP:OD1	45:CU:80:ASP:C	2.59	0.41
46:CV:40:ILE:CG2	46:CV:42:LEU:CD2	2.98	0.41
46:CV:93:ARG:O	46:CV:94:ALA:CB	2.69	0.41
48:CX:40:GLU:O	48:CX:41:SER:C	2.58	0.41
25:DA:125:A:OP2	53:D2:19:ARG:NH2	2.44	0.41
25:DA:1314:C:OP1	25:DA:1332:G:H5''	2.20	0.41
25:DA:1440:U:C4	25:DA:1552:A:C2	3.08	0.41
25:DA:1515:A:H3'	25:DA:1516:G:H8	1.85	0.41
25:DA:2634:A:H2'	25:DA:2635:A:O4'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2661:G:N1	25:DA:2662:A:C4	2.88	0.41
25:DA:2759:G:C6	25:DA:2760:C:C5	3.09	0.41
25:DA:2870:C:N4	25:DA:2871:U:C4	2.89	0.41
25:DA:393:C:H2'	25:DA:394:C:H6	1.85	0.41
25:DA:416:U:H2'	25:DA:417:C:C6	2.55	0.41
25:DA:60:G:C8	25:DA:62:U:C5	3.08	0.41
25:DA:664:G:C4	25:DA:665:U:C6	3.08	0.41
25:DA:671:C:H2'	25:DA:672:C:C6	2.56	0.41
25:DA:864:G:N2	25:DA:913:U:N3	2.69	0.41
25:DA:1829:A:O2'	27:DC:14:HIS:CD2	2.74	0.41
28:DD:46:ARG:NH2	28:DD:89:GLU:OE2	2.54	0.41
29:DE:28:VAL:O	29:DE:29:HIS:C	2.59	0.41
31:DG:52:GLY:HA2	31:DG:53:PRO:HD2	1.85	0.41
32:DH:9:VAL:HG11	32:DH:12:LEU:HG	2.01	0.41
32:DH:30:LEU:HB3	32:DH:36:ALA:HB2	2.03	0.41
32:DH:66:ASN:O	32:DH:69:ALA:CB	2.64	0.41
32:DH:7:ASP:HB3	32:DH:35:LYS:NZ	2.35	0.41
25:DA:636:G:P	36:DL:128:THR:HG22	2.61	0.41
36:DL:68:SER:C	36:DL:69:ARG:HG3	2.41	0.41
56:DB:29:A:OP2	39:DO:32:PRO:HD2	2.20	0.41
39:DO:75:GLY:CA	39:DO:106:LEU:CD2	2.97	0.41
41:DQ:75:TYR:C	41:DQ:75:TYR:CD2	2.93	0.41
42:DR:14:VAL:HA	42:DR:18:GLN:HE22	1.85	0.41
44:DT:34:VAL:HG11	44:DT:83:ALA:CB	2.51	0.41
44:DT:37:ASP:O	44:DT:38:ALA:HB3	2.21	0.41
46:DV:23:ALA:O	46:DV:24:ASN:HB3	2.21	0.41
25:DA:2271:G:OP1	57:DW:14:ALA:HB1	2.21	0.41
49:DY:37:LEU:HD23	49:DY:37:LEU:O	2.20	0.41
1:AA:1066:C:H5'	1:AA:1067:A:OP2	2.19	0.41
1:AA:1093:A:N3	1:AA:1109:C:O2'	2.33	0.41
1:AA:1277:C:C1'	1:AA:1282:C:H1'	2.51	0.41
1:AA:1306:A:C4	1:AA:1307:U:C6	3.08	0.41
1:AA:1346:A:C5'	9:AI:121:ARG:HH12	2.33	0.41
1:AA:201:G:H2'	1:AA:202:G:O4'	2.21	0.41
1:AA:597:G:N7	1:AA:598:U:C5	2.88	0.41
1:AA:728:A:C6	1:AA:729:A:C6	3.09	0.41
1:AA:794:A:C5	1:AA:795:C:C4	3.08	0.41
1:AA:79:G:N2	1:AA:91:U:O4	2.54	0.41
1:AA:826:C:H2'	1:AA:826:C:O2	2.20	0.41
2:AB:115:ASP:O	2:AB:116:LEU:CB	2.69	0.41
2:AB:135:MET:C	2:AB:138:ARG:HG2	2.41	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:140:LEU:O	2:AB:144:GLU:HB2	2.20	0.41
2:AB:110:ILE:HG12	2:AB:150:ILE:HG12	2.00	0.41
2:AB:56:LEU:HD13	2:AB:57:ASN:H	1.85	0.41
2:AB:96:LEU:N	2:AB:99:MET:CE	2.84	0.41
3:AC:23:ALA:CB	3:AC:28:PHE:HA	2.51	0.41
3:AC:51:VAL:CG2	3:AC:67:ILE:HG22	2.51	0.41
4:AD:131:ILE:CD1	4:AD:134:TYR:HB2	2.51	0.41
4:AD:164:ARG:C	4:AD:166:LYS:H	2.24	0.41
5:AE:113:VAL:O	5:AE:114:LEU:C	2.58	0.41
5:AE:72:ASN:N	5:AE:72:ASN:HD22	2.13	0.41
6:AF:24:ARG:HH11	6:AF:24:ARG:CG	2.32	0.41
9:AI:28:VAL:CG1	9:AI:31:GLN:HA	2.51	0.41
9:AI:56:MET:HA	9:AI:59:LYS:HB3	2.01	0.41
9:AI:50:PRO:HB3	9:AI:83:THR:CG2	2.50	0.41
10:AJ:80:THR:HB	10:AJ:83:THR:H	1.85	0.41
13:AM:10:ASP:O	13:AM:11:HIS:CB	2.68	0.41
15:AO:23:SER:O	15:AO:27:GLN:HG3	2.19	0.41
16:AP:16:PHE:HD1	16:AP:16:PHE:C	2.23	0.41
16:AP:75:ILE:HA	16:AP:78:VAL:HG12	2.03	0.41
21:AU:9:GLU:CD	21:AU:10:PRO:CD	2.82	0.41
24:AY:56:ALA:HB2	24:AY:70:VAL:HA	2.02	0.41
24:AY:61:GLU:O	24:AY:62:ASP:HB3	2.20	0.41
1:BA:1160:G:O2'	1:BA:1161:C:C6	2.61	0.41
1:BA:1316:G:C6	1:BA:1318:A:OP2	2.73	0.41
1:BA:152:A:N6	1:BA:170:U:N3	2.69	0.41
1:BA:173:U:C2	1:BA:197:A:C6	3.08	0.41
1:BA:279:A:C5'	1:BA:281:G:O4'	2.64	0.41
1:BA:59:A:C4	1:BA:331:G:C2	3.08	0.41
1:BA:612:C:H2'	1:BA:613:C:C6	2.51	0.41
1:BA:621:A:H2'	1:BA:622:A:O4'	2.21	0.41
1:BA:64:G:N7	1:BA:99:C:C4	2.88	0.41
1:BA:71:A:C5'	1:BA:71:A:H8	2.29	0.41
1:BA:763:G:H2'	1:BA:764:C:O5'	2.20	0.41
1:BA:873:A:H4'	1:BA:874:G:OP2	2.19	0.41
1:BA:933:G:C2	1:BA:935:A:C8	3.08	0.41
1:BA:978:A:P	1:BA:1362:A:H61	2.41	0.41
1:BA:96:U:C2'	1:BA:97:G:O5'	2.69	0.41
2:BB:139:GLU:C	2:BB:143:LEU:HD23	2.41	0.41
2:BB:57:ASN:OD1	2:BB:60:ALA:HB3	2.20	0.41
2:BB:86:CYS:N	2:BB:88:GLN:NE2	2.68	0.41
4:BD:176:LYS:O	4:BD:177:MET:CB	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:28:ASP:C	4:BD:30:LYS:N	2.74	0.41
4:BD:33:ILE:O	4:BD:33:ILE:HG23	2.21	0.41
5:BE:116:VAL:HG23	5:BE:117:ALA:N	2.35	0.41
5:BE:49:TYR:O	5:BE:50:GLY:O	2.38	0.41
7:BG:11:ILE:HD13	7:BG:27:ASN:ND2	2.34	0.41
7:BG:68:VAL:O	7:BG:69:ARG:C	2.59	0.41
8:BH:13:ILE:O	8:BH:14:ARG:C	2.59	0.41
8:BH:48:PHE:O	8:BH:49:LYS:CB	2.68	0.41
10:BJ:35:GLN:O	10:BJ:36:VAL:HG23	2.21	0.41
11:BK:15:VAL:O	11:BK:16:SER:HB3	2.20	0.41
13:BM:69:ARG:O	13:BM:73:SER:N	2.51	0.41
15:BO:38:LEU:HG	15:BO:42:PHE:CE1	2.55	0.41
19:BS:51:HIS:HA	19:BS:55:GLN:O	2.21	0.41
20:BT:43:LYS:HB3	20:BT:86:ALA:HB1	2.01	0.41
20:BT:65:LEU:C	20:BT:67:HIS:CD2	2.93	0.41
22:BV:37:A:H2'	22:BV:38:A:H5'	2.02	0.41
22:BV:52:G:C2	22:BV:63:G:C6	3.09	0.41
25:CA:1043:C:H2'	25:CA:1044:C:C6	2.56	0.41
25:CA:1079:C:H2'	25:CA:1080:A:C8	2.54	0.41
25:CA:124:G:H3'	53:C2:19:ARG:NH2	2.35	0.41
25:CA:1467:U:C4	25:CA:1468:U:C5	3.08	0.41
25:CA:1478:G:H2'	25:CA:1479:G:H8	1.85	0.41
25:CA:1519:G:H2'	25:CA:1520:U:H6	1.85	0.41
25:CA:13:A:N3	25:CA:15:G:C6	2.88	0.41
25:CA:2006:C:O5'	25:CA:2006:C:C6	2.73	0.41
25:CA:2116:G:C5'	25:CA:2117:A:OP2	2.68	0.41
25:CA:2419:U:H5	60:CA:3675:HOH:O	2.02	0.41
25:CA:2458:G:N3	25:CA:2490:G:N2	2.69	0.41
25:CA:279:A:H2'	25:CA:279:A:N3	2.36	0.41
25:CA:2839:G:C5	25:CA:2840:C:C4	3.09	0.41
25:CA:303:G:H2'	25:CA:304:U:H6	1.85	0.41
25:CA:487:C:O5'	25:CA:487:C:H6	2.03	0.41
25:CA:548:G:O2'	25:CA:549:G:N1	2.53	0.41
25:CA:772:C:H2'	25:CA:773:U:O5'	2.20	0.41
27:CC:130:PRO:HB2	27:CC:133:ASN:HD22	1.85	0.41
28:CD:57:ALA:O	28:CD:59:ARG:N	2.54	0.41
29:CE:143:LEU:HB3	29:CE:146:VAL:CG1	2.50	0.41
29:CE:23:PHE:HE1	29:CE:28:VAL:HG21	1.84	0.41
29:CE:31:VAL:HG21	29:CE:104:ALA:HB2	2.01	0.41
30:CF:172:PHE:O	30:CF:173:ASP:HB3	2.20	0.41
31:CG:124:CYS:C	31:CG:126:THR:N	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:11:PRO:O	31:CG:14:VAL:HG23	2.21	0.41
31:CG:27:GLY:O	31:CG:29:ASN:N	2.53	0.41
31:CG:88:LEU:N	31:CG:88:LEU:CD1	2.80	0.41
32:CH:76:GLU:CG	32:CH:76:GLU:O	2.62	0.41
33:CI:114:ALA:O	33:CI:115:ASP:CB	2.67	0.41
33:CI:56:VAL:HG22	33:CI:57:VAL:N	2.36	0.41
33:CI:54:ILE:HG12	33:CI:73:PRO:CB	2.50	0.41
39:CO:106:LEU:O	39:CO:106:LEU:HD23	2.20	0.41
39:CO:94:ARG:O	39:CO:95:SER:C	2.59	0.41
39:CO:94:ARG:O	39:CO:97:PHE:N	2.48	0.41
1:AA:346:G:O5'	40:CP:33:GLU:HG2	2.20	0.41
48:CX:15:ASN:HA	48:CX:24:THR:O	2.21	0.41
25:DA:1073:A:C3'	25:DA:1074:G:C5'	2.99	0.41
25:DA:1084:A:N6	25:DA:1085:A:C6	2.86	0.41
25:DA:10:A:N3	25:DA:10:A:H2'	2.35	0.41
25:DA:1265:A:H61	25:DA:2013:A:H3'	1.85	0.41
25:DA:1401:G:H2'	25:DA:1402:U:H6	1.86	0.41
25:DA:1495:A:OP2	25:DA:1495:A:H8	2.04	0.41
25:DA:1471:G:O6	25:DA:1521:G:N2	2.54	0.41
25:DA:1551:A:N6	25:DA:1552:A:N1	2.69	0.41
25:DA:2131:U:C5'	25:DA:2132:U:C5'	2.98	0.41
25:DA:2427:C:P	60:DA:3703:HOH:O	2.79	0.41
25:DA:2537:U:H2'	25:DA:2538:C:H6	1.85	0.41
25:DA:2583:G:C5	25:DA:2584:U:C4	3.08	0.41
25:DA:2663:G:H2'	25:DA:2664:G:H8	1.85	0.41
25:DA:2756:U:C5	25:DA:2759:G:O6	2.73	0.41
25:DA:547:A:C3'	25:DA:548:G:H5'	2.45	0.41
25:DA:574:A:N7	60:DA:3579:HOH:O	2.37	0.41
25:DA:612:G:H2'	25:DA:614:A:C8	2.56	0.41
25:DA:945:A:C2	25:DA:2448:A:C4	3.09	0.41
56:DB:99:A:C5	56:DB:100:G:C5	3.09	0.41
56:DB:33:G:HO2'	56:DB:34:A:C5'	2.33	0.41
27:DC:204:LEU:HA	27:DC:204:LEU:HD12	1.72	0.41
27:DC:244:VAL:HG21	27:DC:248:GLY:HA2	2.01	0.41
27:DC:64:VAL:HG22	27:DC:102:TYR:HB3	2.03	0.41
28:DD:171:THR:HG22	28:DD:171:THR:O	2.19	0.41
29:DE:143:LEU:O	29:DE:144:GLU:HB2	2.21	0.41
31:DG:128:THR:C	31:DG:129:GLU:CG	2.89	0.41
31:DG:150:TYR:O	31:DG:151:ARG:HB2	2.21	0.41
31:DG:17:LYS:HB2	31:DG:24:THR:HB	2.01	0.41
32:DH:124:THR:O	32:DH:146:VAL:HG11	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:134:VAL:CG1	32:DH:138:VAL:HB	2.51	0.41
25:DA:2199:A:C1'	32:DH:28:ASN:HD21	2.33	0.41
33:DI:101:SER:CB	33:DI:140:GLU:O	2.68	0.41
33:DI:35:MET:C	33:DI:37:PHE:N	2.74	0.41
34:DJ:96:ARG:CG	34:DJ:96:ARG:HH21	2.33	0.41
37:DM:57:VAL:HG23	37:DM:60:GLN:O	2.20	0.41
42:DR:1:MET:HE1	42:DR:101:ILE:HB	2.03	0.41
49:DY:9:LYS:N	49:DY:12:GLU:HG2	2.35	0.41
1:AA:104:G:C2	1:AA:105:G:C5	3.09	0.41
1:AA:1063:C:H3'	1:AA:1064:G:H2'	2.02	0.41
1:AA:1239:A:N3	1:AA:1241:G:C6	2.89	0.41
1:AA:1310:G:C2	1:AA:1328:C:O2	2.74	0.41
1:AA:1526:G:H2'	1:AA:1527:U:C6	2.55	0.41
1:AA:435:A:N6	1:AA:436:C:C4	2.88	0.41
1:AA:439:U:H4'	4:AD:120:LYS:HE3	2.03	0.41
1:AA:52:C:H2'	1:AA:53:A:C8	2.55	0.41
1:AA:585:G:C5	1:AA:586:C:C5	3.09	0.41
1:AA:693:G:C6	1:AA:694:A:C6	3.09	0.41
1:AA:806:C:O2	1:AA:806:C:H2'	2.20	0.41
1:AA:977:A:C2'	1:AA:978:A:H5''	2.51	0.41
1:AA:990:C:O2'	1:AA:991:U:H5'	2.21	0.41
2:AB:50:ASN:O	2:AB:51:GLU:CB	2.62	0.41
3:AC:142:ARG:NH1	3:AC:142:ARG:HG3	2.36	0.41
3:AC:140:ALA:O	3:AC:145:ALA:CB	2.68	0.41
3:AC:13:ILE:C	3:AC:15:LYS:H	2.24	0.41
3:AC:13:ILE:O	3:AC:15:LYS:N	2.54	0.41
3:AC:39:ARG:O	3:AC:41:TYR:N	2.53	0.41
3:AC:6:PRO:O	3:AC:9:ILE:HG22	2.21	0.41
4:AD:156:ALA:C	4:AD:159:GLU:HB3	2.41	0.41
4:AD:42:ALA:O	4:AD:43:ARG:C	2.59	0.41
1:AA:1377:A:C2	7:AG:6:ILE:CD1	3.03	0.41
11:AK:93:GLU:O	11:AK:94:SER:C	2.57	0.41
13:AM:51:GLN:O	13:AM:54:THR:HG23	2.21	0.41
14:AN:26:LEU:O	14:AN:27:LYS:CB	2.65	0.41
18:AR:24:ASP:C	18:AR:26:ALA:N	2.72	0.41
20:AT:68:LYS:HB2	20:AT:68:LYS:NZ	2.36	0.41
22:AV:2:C:H2'	22:AV:3:C:C6	2.55	0.41
1:BA:1014:A:N7	1:BA:1015:G:C6	2.89	0.41
1:BA:1053:G:N2	1:BA:1056:U:C4	2.89	0.41
1:BA:1256:A:C4	1:BA:1278:G:C5	3.08	0.41
1:BA:126:G:N2	1:BA:127:G:H1'	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1277:C:HO2'	1:BA:1279:G:H1'	1.83	0.41
1:BA:1323:G:C4'	1:BA:1362:A:H2	2.33	0.41
1:BA:1537:U:H5''	1:BA:1538:C:OP2	2.21	0.41
1:BA:209:U:OP2	1:BA:210:C:C5	2.74	0.41
1:BA:392:C:OP1	16:BP:8:ARG:NH2	2.53	0.41
1:BA:401:C:H2'	1:BA:402:G:C8	2.56	0.41
1:BA:579:A:H2'	1:BA:580:C:H5'	2.02	0.41
1:BA:827:U:C4	1:BA:870:U:O2	2.73	0.41
1:BA:841:C:H2'	1:BA:843:U:O4'	2.20	0.41
1:BA:846:G:H2'	1:BA:847:G:H5'	2.02	0.41
1:BA:891:U:P	60:BA:1825:HOH:O	2.78	0.41
2:BB:216:VAL:O	2:BB:219:THR:HG22	2.21	0.41
3:BC:110:LEU:N	3:BC:110:LEU:HD23	2.36	0.41
5:BE:110:MET:HA	5:BE:113:VAL:HG13	2.02	0.41
5:BE:80:LEU:CD1	5:BE:119:VAL:HG11	2.51	0.41
1:BA:560:A:C4	5:BE:127:TYR:CE2	3.09	0.41
5:BE:153:ALA:CA	5:BE:156:ARG:HB3	2.50	0.41
7:BG:44:SER:OG	7:BG:116:ALA:HB1	2.20	0.41
7:BG:125:ASP:HA	7:BG:128:GLU:OE1	2.21	0.41
7:BG:142:ARG:O	7:BG:146:ALA:CB	2.69	0.41
8:BH:4:ASP:CG	8:BH:7:ALA:CB	2.89	0.41
11:BK:109:ILE:HG21	21:BU:16:ARG:NE	2.36	0.41
12:BL:24:GLU:O	12:BL:26:CYS:N	2.53	0.41
13:BM:24:VAL:HG23	13:BM:28:ARG:HB3	2.03	0.41
17:BQ:11:VAL:HG12	17:BQ:12:VAL:H	1.83	0.41
22:BV:56:C:O2	22:BV:56:C:C2'	2.69	0.41
23:BX:8:A:C6	23:BX:9:G:C6	3.09	0.41
52:C1:18:HIS:NE2	52:C1:40:PRO:HD2	2.36	0.41
54:C3:16:THR:CG2	54:C3:20:GLY:C	2.89	0.41
25:CA:1027:A:H5''	25:CA:1028:A:OP1	2.21	0.41
25:CA:1066:U:H2'	25:CA:1066:U:O2	2.19	0.41
25:CA:1408:G:H2'	25:CA:1409:U:C5'	2.51	0.41
25:CA:1606:C:C6	25:CA:1606:C:H3'	2.55	0.41
25:CA:1721:G:O6	25:CA:1738:G:O6	2.39	0.41
25:CA:182:A:C6	25:CA:183:C:C4	3.08	0.41
25:CA:1880:U:H2'	25:CA:1881:C:H6	1.86	0.41
25:CA:2120:G:H2'	25:CA:2121:G:H8	1.85	0.41
25:CA:2206:C:C2'	25:CA:2206:C:O2	2.66	0.41
25:CA:2415:G:H2'	25:CA:2416:C:C6	2.56	0.41
25:CA:242:G:H5''	54:C3:63:TYR:CE2	2.56	0.41
25:CA:2626:C:H2'	25:CA:2627:G:O4'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2840:C:H2'	25:CA:2841:C:C6	2.55	0.41
25:CA:2855:C:O2	25:CA:2855:C:H2'	2.20	0.41
25:CA:303:G:H2'	25:CA:304:U:C6	2.56	0.41
25:CA:358:U:H2'	25:CA:359:G:H8	1.84	0.41
25:CA:362:A:C2	25:CA:363:G:C4	3.08	0.41
25:CA:388:G:N7	25:CA:390:U:H2'	2.36	0.41
25:CA:412:A:H8	25:CA:412:A:O5'	2.04	0.41
25:CA:483:A:C8	25:CA:484:C:C5	3.08	0.41
25:CA:70:G:H4'	25:CA:71:A:OP1	2.21	0.41
25:CA:902:C:H6	25:CA:902:C:O5'	2.04	0.41
26:CB:104:A:H2'	26:CB:105:G:O4'	2.21	0.41
26:CB:32:U:O2'	26:CB:33:G:H5'	2.21	0.41
27:CC:166:ARG:NH2	27:CC:166:ARG:HB2	2.35	0.41
27:CC:144:GLU:HB2	27:CC:187:CYS:HB3	2.02	0.41
29:CE:145:ASP:HB3	29:CE:184:ASP:CG	2.40	0.41
29:CE:146:VAL:HA	29:CE:185:LYS:O	2.20	0.41
26:CB:56:G:OP1	30:CF:23:SER:HB2	2.21	0.41
32:CH:129:GLU:HA	32:CH:143:ILE:HA	2.01	0.41
32:CH:76:GLU:HG2	32:CH:143:ILE:CD1	2.49	0.41
33:CI:4:VAL:O	33:CI:5:GLN:HB2	2.19	0.41
34:CJ:77:HIS:CD2	34:CJ:79:GLY:N	2.85	0.41
35:CK:23:LYS:HA	35:CK:23:LYS:HD3	1.93	0.41
38:CN:79:LEU:O	38:CN:81:ASN:N	2.54	0.41
40:CP:87:ARG:NH2	40:CP:111:GLU:HB2	2.35	0.41
43:CS:58:ALA:O	43:CS:62:ASP:HB2	2.20	0.41
45:CU:19:GLY:O	45:CU:20:LYS:C	2.59	0.41
46:CV:1:MET:SD	46:CV:1:MET:C	2.99	0.41
47:CW:36:GLN:OE1	47:CW:40:LYS:N	2.54	0.41
52:D1:42:VAL:HG12	52:D1:44:GLN:HB2	2.03	0.41
52:D1:47:ILE:H	52:D1:47:ILE:HD12	1.86	0.41
53:D2:24:THR:HG23	53:D2:27:GLY:H	1.85	0.41
54:D3:54:LEU:O	54:D3:58:ILE:HG13	2.21	0.41
55:D4:10:LEU:HB2	55:D4:33:HIS:ND1	2.36	0.41
25:DA:987:C:O2'	25:DA:1000:A:N3	2.40	0.41
25:DA:1045:C:H41	25:DA:1111:A:H2'	1.86	0.41
25:DA:1096:A:C8	25:DA:1096:A:C3'	3.04	0.41
25:DA:1022:G:C6	25:DA:1140:C:C5	3.09	0.41
25:DA:1356:G:C6	25:DA:1357:C:C5	3.08	0.41
25:DA:1359:A:C8	25:DA:1360:G:C8	3.09	0.41
25:DA:1378:A:C4	25:DA:1380:G:N7	2.89	0.41
25:DA:1382:G:C5'	25:DA:1383:A:OP2	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1531:C:H2'	25:DA:1532:A:O4'	2.20	0.41
25:DA:1567:G:O5'	25:DA:1567:G:H2'	2.21	0.41
25:DA:1589:U:N3	25:DA:1590:A:N7	2.68	0.41
25:DA:167:A:C5	25:DA:168:G:C8	3.09	0.41
25:DA:1685:C:H2'	25:DA:1686:C:C6	2.55	0.41
25:DA:1696:G:C6	25:DA:1697:G:C4	3.08	0.41
25:DA:1744:A:H2'	25:DA:1745:A:O4'	2.21	0.41
25:DA:1786:A:H1'	25:DA:1938:A:H61	1.82	0.41
25:DA:2080:A:H2'	25:DA:2081:U:H6	1.83	0.41
25:DA:2165:C:O2	25:DA:2166:U:O4'	2.38	0.41
25:DA:2218:G:C2'	25:DA:2219:U:H5'	2.51	0.41
25:DA:2317:A:N6	25:DA:2318:G:C2	2.89	0.41
25:DA:2420:C:O2'	25:DA:2421:G:H5'	2.21	0.41
25:DA:2543:G:H2'	25:DA:2544:G:O4'	2.20	0.41
25:DA:2677:G:H2'	25:DA:2678:C:C6	2.55	0.41
25:DA:2694:G:H2'	25:DA:2695:U:C6	2.56	0.41
25:DA:2702:G:C6	25:DA:2703:C:C4	3.09	0.41
25:DA:2728:U:O2'	25:DA:2729:G:C5'	2.69	0.41
25:DA:2734:A:C5	25:DA:2735:G:C8	3.09	0.41
25:DA:338:G:N2	25:DA:339:U:H1'	2.36	0.41
25:DA:408:G:C6	25:DA:409:G:C5	3.08	0.41
25:DA:522:A:H2'	25:DA:523:C:C6	2.56	0.41
25:DA:557:C:H6	25:DA:557:C:O5'	2.04	0.41
25:DA:593:U:O2	25:DA:593:U:H2'	2.19	0.41
25:DA:60:G:C2	25:DA:74:A:N1	2.88	0.41
25:DA:627:A:C5	25:DA:637:A:N7	2.89	0.41
25:DA:876:C:H41	25:DA:877:A:N6	2.19	0.41
56:DB:17:C:H2'	56:DB:18:G:H5'	2.03	0.41
56:DB:51:G:H21	56:DB:53:A:H62	1.67	0.41
56:DB:71:C:H2'	56:DB:71:C:O2	2.21	0.41
27:DC:203:VAL:O	27:DC:204:LEU:CB	2.68	0.41
29:DE:164:LEU:N	29:DE:164:LEU:HD13	2.35	0.41
29:DE:46:GLN:HB2	29:DE:83:VAL:HG11	2.02	0.41
30:DF:29:ARG:O	30:DF:29:ARG:HG3	2.20	0.41
31:DG:143:VAL:O	31:DG:144:ALA:O	2.37	0.41
32:DH:5:LEU:HA	32:DH:35:LYS:O	2.20	0.41
33:DI:99:LYS:O	33:DI:100:ILE:HD13	2.21	0.41
34:DJ:4:PHE:CG	34:DJ:5:THR:N	2.89	0.41
25:DA:1131:G:H4'	34:DJ:84:ILE:HD13	2.02	0.41
36:DL:91:ASP:O	36:DL:93:ASN:O	2.39	0.41
37:DM:130:PHE:HD2	37:DM:130:PHE:C	2.23	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:101:GLY:C	38:DN:102:PHE:CD2	2.94	0.41
38:DN:49:GLU:HB2	38:DN:50:PRO:HD3	2.03	0.41
39:DO:24:THR:HG22	39:DO:40:ILE:O	2.20	0.41
39:DO:75:GLY:C	39:DO:77:ALA:N	2.72	0.41
39:DO:7:ARG:CG	39:DO:96:GLY:HA3	2.51	0.41
42:DR:4:VAL:HA	42:DR:12:HIS:O	2.20	0.41
25:DA:2011:U:OP2	43:DS:16:LYS:HE2	2.20	0.41
43:DS:33:LEU:HD21	43:DS:52:GLU:CG	2.50	0.41
44:DT:31:VAL:HG13	44:DT:84:TYR:HA	2.02	0.41
44:DT:61:LEU:HD12	44:DT:62:VAL:N	2.36	0.41
48:DX:44:ARG:HH21	48:DX:46:VAL:HG22	1.86	0.41
49:DY:3:ALA:O	49:DY:4:LYS:C	2.58	0.41
1:AA:1033:G:C2	1:AA:1034:G:C8	3.09	0.41
1:AA:1113:C:C2	1:AA:1114:C:C5	3.09	0.41
1:AA:1152:A:N6	1:AA:1153:G:C6	2.88	0.41
1:AA:1210:C:C4'	1:AA:1214:C:H5	2.33	0.41
1:AA:1277:C:C2'	1:AA:1279:G:H8	2.33	0.41
1:AA:1505:G:H4'	1:AA:1506:U:O5'	2.21	0.41
1:AA:184:G:O4'	1:AA:224:U:H4'	2.21	0.41
1:AA:293:G:C4	1:AA:294:U:C6	3.08	0.41
1:AA:581:G:O5'	1:AA:581:G:H8	2.04	0.41
1:AA:642:A:C5	1:AA:643:C:C4	3.08	0.41
1:AA:792:A:H4'	1:AA:793:U:C5'	2.50	0.41
2:AB:27:LYS:HB2	2:AB:27:LYS:HE3	1.94	0.41
3:AC:23:ALA:HB2	3:AC:31:ASN:HD22	1.85	0.41
4:AD:149:LYS:HE2	4:AD:176:LYS:O	2.20	0.41
8:AH:28:SER:HB3	8:AH:56:PRO:CB	2.50	0.41
1:AA:1347:G:C8	9:AI:108:ARG:HB2	2.56	0.41
9:AI:118:ARG:O	9:AI:119:LYS:CB	2.69	0.41
9:AI:24:ASN:HB2	9:AI:61:ASP:OD2	2.21	0.41
9:AI:49:GLN:CB	9:AI:50:PRO:CD	2.98	0.41
9:AI:79:ARG:O	9:AI:83:THR:HG23	2.20	0.41
10:AJ:19:ASP:HA	10:AJ:22:THR:HB	2.03	0.41
10:AJ:27:GLU:HA	10:AJ:30:LYS:CD	2.51	0.41
10:AJ:65:TYR:CE2	14:AN:98:LYS:HG2	2.56	0.41
11:AK:52:ARG:O	11:AK:55:ARG:CB	2.69	0.41
11:AK:69:CYS:O	11:AK:70:ALA:C	2.59	0.41
13:AM:70:ARG:HA	30:CF:142:TYR:CE2	2.56	0.41
14:AN:13:VAL:HA	14:AN:16:ALA:CB	2.50	0.41
14:AN:43:ASN:C	14:AN:45:VAL:HG22	2.41	0.41
14:AN:88:ALA:CA	14:AN:93:ILE:HD12	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:23:SER:HB3	15:AO:26:VAL:HG21	2.03	0.41
16:AP:12:LYS:C	16:AP:14:ARG:H	2.24	0.41
16:AP:46:LYS:HD3	16:AP:47:GLU:N	2.35	0.41
19:AS:19:GLU:HA	19:AS:19:GLU:OE2	2.21	0.41
20:AT:57:VAL:CG1	20:AT:71:ALA:CB	2.99	0.41
22:AV:48:C:H2'	22:AV:59:U:C4'	2.51	0.41
1:BA:1026:G:C6	1:BA:1027:C:N4	2.89	0.41
1:BA:1142:G:N1	1:BA:1143:G:H1'	2.35	0.41
1:BA:1068:G:O2'	1:BA:1191:A:N1	2.45	0.41
1:BA:1315:U:C4	1:BA:1316:G:C6	3.09	0.41
1:BA:1386:G:N2	1:BA:1387:G:C8	2.88	0.41
1:BA:1473:G:H2'	1:BA:1474:U:O4'	2.20	0.41
1:BA:1478:U:H2'	1:BA:1479:C:H6	1.85	0.41
1:BA:15:G:H4'	5:BE:28:ARG:NH1	2.36	0.41
1:BA:49:U:O4	1:BA:365:U:C5	2.73	0.41
1:BA:469:C:C5	1:BA:470:C:C5	3.08	0.41
1:BA:574:A:P	60:BA:1785:HOH:O	2.79	0.41
1:BA:676:A:N1	1:BA:677:U:C4	2.89	0.41
1:BA:745:G:H1'	1:BA:836:G:O2'	2.21	0.41
1:BA:575:G:O2'	1:BA:821:G:OP2	2.26	0.41
2:BB:84:LEU:O	2:BB:85:SER:HB3	2.21	0.41
3:BC:8:GLY:HA2	3:BC:11:LEU:HG	2.02	0.41
6:AF:16:GLU:OE1	4:BD:190:LEU:O	2.39	0.41
9:BI:74:GLN:O	9:BI:78:ILE:HG13	2.19	0.41
10:BJ:50:THR:OG1	10:BJ:64:GLN:CG	2.69	0.41
13:BM:70:ARG:HA	13:BM:73:SER:HB2	2.02	0.41
13:BM:67:ASP:HA	13:BM:70:ARG:HG2	2.02	0.41
14:BN:41:ARG:NH2	14:BN:45:VAL:HG21	2.36	0.41
14:BN:5:MET:HB3	14:BN:63:ARG:CZ	2.51	0.41
15:BO:86:LEU:C	15:BO:88:ARG:N	2.74	0.41
19:BS:10:ILE:CD1	19:BS:15:LEU:HD22	2.50	0.41
21:BU:33:ARG:CD	21:BU:34:ARG:HB2	2.51	0.41
11:BK:124:LYS:O	21:BU:34:ARG:HD2	2.21	0.41
25:CA:1038:G:C2'	25:CA:1039:A:H5'	2.51	0.41
25:CA:1056:G:O2'	25:CA:1086:A:C8	2.70	0.41
25:CA:1116:G:C6	25:CA:1117:C:C4	3.08	0.41
25:CA:1269:A:H2'	25:CA:1270:C:C6	2.55	0.41
25:CA:2055:C:C5'	25:CA:2056:G:OP1	2.67	0.41
25:CA:2092:U:H4'	25:CA:2093:G:O5'	2.20	0.41
25:CA:2448:A:H4'	25:CA:2449:U:OP2	2.21	0.41
25:CA:2703:C:O5'	25:CA:2703:C:H6	2.04	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2692:G:H4'	25:CA:2870:C:O2	2.21	0.41
25:CA:319:G:C2'	25:CA:320:A:O5'	2.69	0.41
25:CA:437:U:C2'	25:CA:438:G:O5'	2.69	0.41
25:CA:64:A:H2'	25:CA:65:U:H6	1.86	0.41
25:CA:703:U:H2'	25:CA:704:G:H5'	2.02	0.41
25:CA:71:A:H5''	25:CA:72:U:C2'	2.51	0.41
25:CA:723:C:H2'	25:CA:724:U:O4'	2.21	0.41
25:CA:787:C:P	60:CA:3765:HOH:O	2.79	0.41
25:CA:2599:G:N7	27:CC:235:GLU:HB2	2.35	0.41
31:CG:163:TYR:O	31:CG:166:GLU:HB3	2.20	0.41
31:CG:171:LYS:HG3	31:CG:172:GLU:O	2.21	0.41
32:CH:111:ALA:C	32:CH:113:SER:H	2.22	0.41
36:CL:135:ILE:HD12	36:CL:142:ILE:HD11	2.03	0.41
37:CM:33:LEU:HD12	37:CM:33:LEU:HA	1.83	0.41
37:CM:5:LYS:O	37:CM:6:ARG:HB2	2.20	0.41
38:CN:113:ILE:HG23	38:CN:113:ILE:O	2.21	0.41
38:CN:49:GLU:N	38:CN:50:PRO:HD2	2.36	0.41
40:CP:89:GLY:HA3	40:CP:109:ILE:HD11	2.03	0.41
43:CS:18:ARG:O	43:CS:19:LEU:C	2.58	0.41
48:CX:37:PHE:O	48:CX:45:PHE:HA	2.21	0.41
48:CX:76:LYS:HA	48:CX:76:LYS:HD2	1.75	0.41
49:CY:44:LYS:O	49:CY:47:ARG:HB3	2.20	0.41
53:D2:41:ARG:HH21	53:D2:41:ARG:HB2	1.84	0.41
54:D3:31:ILE:O	54:D3:35:LYS:CD	2.68	0.41
25:DA:1021:A:C6	25:DA:1023:U:C5	3.08	0.41
25:DA:1173:U:O2'	25:DA:1176:U:O2	2.28	0.41
25:DA:1364:G:H2'	25:DA:1365:A:C5'	2.51	0.41
25:DA:1386:C:C2'	25:DA:1386:C:O2	2.65	0.41
25:DA:1403:A:C2	25:DA:1404:C:C6	3.09	0.41
25:DA:1455:G:C6	25:DA:1456:G:C5	3.09	0.41
25:DA:1476:U:C5	25:DA:1514:G:C2	3.08	0.41
25:DA:168:G:C2'	25:DA:168:G:N3	2.80	0.41
25:DA:1746:A:C2	25:DA:1747:U:C5	3.08	0.41
25:DA:1754:A:C2	25:DA:1755:A:C4	3.09	0.41
25:DA:1915:U:C2'	25:DA:1916:A:O5'	2.68	0.41
25:DA:2273:A:H2'	25:DA:2274:A:C8	2.55	0.41
25:DA:2291:U:H4'	25:DA:2380:C:O2	2.21	0.41
25:DA:2428:G:H5''	25:DA:2429:G:O5'	2.20	0.41
25:DA:2573:C:H3'	60:DA:3716:HOH:O	2.20	0.41
25:DA:2584:U:C2'	25:DA:2585:U:H5'	2.50	0.41
25:DA:260:G:C4	25:DA:261:G:C8	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2723:C:C2'	25:DA:2724:U:O5'	2.68	0.41
25:DA:2816:G:H2'	25:DA:2817:U:O5'	2.20	0.41
25:DA:797:G:C4	25:DA:798:G:C8	3.08	0.41
25:DA:857:G:C6	25:DA:858:G:C6	3.09	0.41
25:DA:908:C:O2'	25:DA:909:A:H5'	2.20	0.41
27:DC:153:LEU:N	27:DC:153:LEU:HD23	2.36	0.41
28:DD:30:GLU:O	28:DD:31:ALA:C	2.59	0.41
28:DD:58:ASN:ND2	28:DD:59:ARG:N	2.68	0.41
30:DF:29:ARG:CG	30:DF:29:ARG:O	2.69	0.41
30:DF:48:LEU:HG	30:DF:48:LEU:O	2.21	0.41
30:DF:6:TYR:CD1	30:DF:6:TYR:C	2.91	0.41
32:DH:31:VAL:CG1	32:DH:32:PRO:HD2	2.49	0.41
32:DH:40:THR:O	32:DH:43:ASN:N	2.53	0.41
36:DL:119:PRO:CB	36:DL:138:ALA:O	2.69	0.41
25:DA:2822:G:O6	38:DN:2:ARG:CB	2.69	0.41
56:DB:49:C:O2'	39:DO:68:LYS:HE2	2.21	0.41
41:DQ:86:SER:OG	42:DR:51:VAL:HG12	2.20	0.41
43:DS:96:ILE:HD13	43:DS:96:ILE:N	2.36	0.41
43:DS:97:LEU:HD12	43:DS:97:LEU:HA	1.97	0.41
57:DW:32:ILE:HG22	57:DW:33:ILE:N	2.36	0.41
32:DH:32:PRO:CG	48:DX:38:TRP:HB3	2.51	0.41
49:DY:9:LYS:N	49:DY:12:GLU:CB	2.84	0.41
1:AA:1031:C:C3'	1:AA:1032:G:H5''	2.50	0.41
1:AA:116:A:OP2	1:AA:116:A:C8	2.73	0.41
1:AA:1349:A:C2	1:AA:1350:A:H1'	2.56	0.41
1:AA:176:C:O4'	1:AA:1447:A:C2	2.74	0.41
1:AA:179:A:C2'	1:AA:180:U:H5'	2.51	0.41
1:AA:207:C:H2'	1:AA:208:U:O2	2.19	0.41
1:AA:274:A:H5'	17:AQ:15:LYS:HE3	2.03	0.41
1:AA:436:C:H4'	4:AD:152:SER:HB2	2.00	0.41
1:AA:637:C:N3	1:AA:638:U:C5	2.89	0.41
1:AA:66:A:C2	1:AA:67:C:N1	2.89	0.41
1:AA:725:G:H2'	1:AA:726:C:H5'	2.02	0.41
1:AA:847:G:C6	1:AA:848:C:C4	3.08	0.41
1:AA:882:C:O2'	1:AA:883:C:H5'	2.20	0.41
1:AA:91:U:C5	1:AA:92:U:C6	3.09	0.41
1:AA:993:G:C2'	1:AA:993:G:N3	2.82	0.41
2:AB:68:PHE:HE2	2:AB:88:GLN:HB3	1.86	0.41
3:AC:120:THR:CG2	3:AC:121:SER:N	2.80	0.41
3:AC:43:THR:O	3:AC:47:ALA:HA	2.21	0.41
3:AC:57:GLU:O	3:AC:63:ILE:HA	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:87:ARG:HG3	3:AC:100:ILE:CG2	2.51	0.41
4:AD:173:ASP:HB3	4:AD:176:LYS:HB2	2.03	0.41
5:AE:131:ASN:ND2	5:AE:133:ILE:HG22	2.35	0.41
7:AG:102:TRP:CH2	7:AG:140:VAL:HG21	2.56	0.41
9:AI:116:GLY:O	9:AI:124:PRO:CG	2.69	0.41
9:AI:30:ASN:C	9:AI:32:ARG:N	2.73	0.41
9:AI:53:LEU:HD12	9:AI:53:LEU:H	1.85	0.41
12:AL:100:ALA:O	12:AL:101:LEU:C	2.58	0.41
13:AM:105:ALA:O	13:AM:106:ARG:C	2.59	0.41
13:AM:35:ALA:CB	13:AM:58:GLU:OE1	2.69	0.41
13:AM:65:GLU:OE1	13:AM:65:GLU:HA	2.19	0.41
13:AM:22:TYR:CE2	13:AM:69:ARG:HG2	2.55	0.41
1:AA:1317:C:C4	14:AN:53:ARG:HD2	2.56	0.41
1:AA:1202:U:N3	14:AN:82:ILE:HG21	2.35	0.41
17:AQ:21:VAL:C	17:AQ:22:VAL:CG2	2.89	0.41
18:AR:54:LEU:O	18:AR:54:LEU:HD13	2.21	0.41
19:AS:12:LEU:C	19:AS:14:LEU:N	2.72	0.41
1:AA:1322:C:P	19:AS:77:ARG:NH2	2.94	0.41
20:AT:47:GLN:C	20:AT:47:GLN:NE2	2.74	0.41
20:AT:4:LYS:HA	20:AT:4:LYS:HE2	2.03	0.41
21:AU:11:PHE:C	21:AU:12:ASP:OD2	2.58	0.41
21:AU:31:VAL:O	21:AU:31:VAL:CG1	2.69	0.41
11:AK:124:LYS:HE3	21:AU:34:ARG:CZ	2.50	0.41
21:AU:43:GLU:OE2	21:AU:44:ARG:NH1	2.54	0.41
22:AV:41:C:H2'	22:AV:42:C:C6	2.56	0.41
24:AY:144:LEU:C	24:AY:145:LYS:O	2.58	0.41
1:BA:1247:U:O2'	1:BA:1248:A:H5'	2.21	0.41
1:BA:1424:U:H2'	1:BA:1425:U:O4'	2.21	0.41
1:BA:1501:C:C5	1:BA:1504:G:C4	3.09	0.41
1:BA:168:G:H5''	1:BA:168:G:H8	1.85	0.41
1:BA:246:A:N1	1:BA:278:G:O2'	2.50	0.41
1:BA:375:U:N3	1:BA:376:G:N7	2.69	0.41
1:BA:402:G:C5	1:BA:403:C:C5	3.08	0.41
1:BA:570:G:H2'	1:BA:571:U:C6	2.56	0.41
1:BA:969:A:H2'	1:BA:970:C:O5'	2.20	0.41
1:BA:94:G:N2	1:BA:96:U:C4	2.89	0.41
2:BB:175:ALA:C	2:BB:177:ASN:N	2.70	0.41
2:BB:95:TRP:CE3	2:BB:96:LEU:O	2.74	0.41
3:BC:131:ARG:HD3	3:BC:135:ARG:NH2	2.36	0.41
3:BC:142:ARG:HG2	3:BC:143:LEU:HD13	2.02	0.41
4:BD:123:MET:HA	4:BD:127:ARG:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:28:ASP:C	4:BD:30:LYS:H	2.24	0.41
4:BD:67:LEU:HA	4:BD:67:LEU:HD23	1.83	0.41
1:BA:429:U:H3'	4:BD:8:LEU:HD22	2.03	0.41
5:BE:31:SER:OG	5:BE:32:PHE:N	2.54	0.41
7:BG:115:MET:N	7:BG:118:ARG:HD3	2.36	0.41
11:BK:124:LYS:O	11:BK:124:LYS:HE3	2.21	0.41
13:BM:79:LEU:HD11	13:BM:86:ARG:HB3	2.03	0.41
14:BN:99:ALA:O	14:BN:100:SER:HB3	2.21	0.41
16:BP:56:ARG:O	16:BP:57:ILE:C	2.59	0.41
17:BQ:37:ILE:HD12	17:BQ:37:ILE:N	2.36	0.41
11:BK:125:LYS:C	21:BU:33:ARG:CZ	2.89	0.41
1:BA:1526:G:OP1	21:BU:38:GLU:HB2	2.21	0.41
52:C1:30:PRO:HD2	52:C1:31:GLU:OE2	2.20	0.41
55:C4:3:VAL:HG12	55:C4:36:ARG:HB3	2.02	0.41
25:CA:1055:G:H3'	25:CA:1056:G:H8	1.85	0.41
25:CA:1244:A:OP1	36:CL:7:SER:CB	2.69	0.41
25:CA:1405:U:O2'	25:CA:1406:U:H5'	2.20	0.41
25:CA:1484:U:N3	25:CA:1485:U:C5	2.89	0.41
25:CA:2516:A:C5	25:CA:2517:C:C4	3.09	0.41
25:CA:2617:U:C2'	25:CA:2618:G:H5'	2.51	0.41
25:CA:2731:G:C6	25:CA:2732:G:C6	3.09	0.41
25:CA:283:G:C2'	25:CA:284:U:O5'	2.69	0.41
25:CA:1:G:C4	25:CA:2:G:C8	3.09	0.41
25:CA:495:G:H2'	25:CA:496:G:O5'	2.21	0.41
25:CA:653:U:C2'	25:CA:654:A:OP1	2.69	0.41
25:CA:679:C:O2'	25:CA:680:C:H5'	2.21	0.41
25:CA:693:A:O2'	25:CA:694:U:H5'	2.21	0.41
25:CA:783:A:H8	25:CA:784:G:H4'	1.86	0.41
25:CA:799:G:N1	25:CA:800:A:N6	2.68	0.41
25:CA:923:G:H4'	47:CW:25:GLU:CG	2.51	0.41
26:CB:78:A:N6	26:CB:98:G:H2'	2.36	0.41
25:CA:1818:U:H2'	27:CC:155:ARG:CD	2.51	0.41
27:CC:211:ARG:HH21	27:CC:211:ARG:CG	2.33	0.41
29:CE:49:ARG:HA	29:CE:82:GLY:HA3	2.03	0.41
29:CE:49:ARG:HH11	29:CE:72:SER:HB2	1.86	0.41
31:CG:130:ILE:C	31:CG:131:VAL:HG23	2.40	0.41
31:CG:152:ARG:HA	31:CG:153:PRO:HD3	1.88	0.41
31:CG:77:GLY:C	31:CG:79:THR:H	2.24	0.41
32:CH:28:ASN:H	32:CH:32:PRO:HG2	1.85	0.41
33:CI:38:CYS:HA	33:CI:41:PHE:HB3	2.03	0.41
33:CI:54:ILE:HG12	33:CI:73:PRO:HB3	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CL:8:PRO:HB2	36:CL:12:SER:HB2	2.03	0.41
38:CN:28:LEU:O	38:CN:32:GLU:N	2.53	0.41
40:CP:112:ARG:O	40:CP:113:LEU:CG	2.65	0.41
46:CV:61:LEU:CD1	46:CV:61:LEU:N	2.84	0.41
25:DA:1006:C:O2'	25:DA:1007:C:H5'	2.20	0.41
25:DA:1059:G:C6	25:DA:1080:A:N1	2.89	0.41
25:DA:1062:G:O3'	25:DA:1063:G:C8	2.74	0.41
25:DA:1414:C:H6	25:DA:1414:C:H3'	1.84	0.41
25:DA:1422:G:C2	25:DA:1423:G:C4	3.09	0.41
25:DA:1447:C:C2	25:DA:1448:G:C8	3.09	0.41
25:DA:1486:U:C2	25:DA:1487:U:C5	3.08	0.41
25:DA:147:C:H2'	25:DA:148:U:O5'	2.19	0.41
25:DA:1343:G:O4'	25:DA:1597:A:H2'	2.21	0.41
25:DA:2097:A:C4	25:DA:2098:U:C6	3.08	0.41
25:DA:2111:U:O4'	25:DA:2118:U:H1'	2.21	0.41
25:DA:2632:A:O2'	25:DA:2633:G:H5'	2.21	0.41
25:DA:278:A:C2'	25:DA:278:A:N3	2.84	0.41
25:DA:2837:A:H5''	60:DA:3816:HOH:O	2.20	0.41
25:DA:2840:C:H5''	38:DN:53:THR:CG2	2.51	0.41
25:DA:2858:C:O5'	25:DA:2858:C:H6	2.04	0.41
25:DA:306:U:C6	25:DA:306:U:H3'	2.56	0.41
25:DA:346:A:C6	25:DA:347:A:C8	3.09	0.41
25:DA:503:A:C5	25:DA:506:G:C6	3.08	0.41
25:DA:52:A:H2	25:DA:179:C:O4'	2.02	0.41
25:DA:975:A:H1'	25:DA:990:A:C2	2.56	0.41
25:DA:982:C:H5''	25:DA:983:A:P	2.61	0.41
56:DB:51:G:O2'	56:DB:52:A:O5'	2.39	0.41
56:DB:61:G:C6	56:DB:62:C:C4	3.08	0.41
27:DC:124:LYS:CB	27:DC:125:PRO:CD	2.98	0.41
27:DC:52:HIS:NE2	27:DC:218:THR:HG23	2.36	0.41
25:DA:1798:U:H5''	27:DC:257:ARG:HB2	2.02	0.41
29:DE:173:THR:O	29:DE:175:ILE:N	2.54	0.41
30:DF:101:ARG:O	30:DF:102:LEU:C	2.59	0.41
31:DG:43:LYS:HE3	31:DG:50:THR:OG1	2.21	0.41
31:DG:72:ASN:O	31:DG:75:VAL:HB	2.21	0.41
31:DG:89:VAL:HG21	31:DG:162:ARG:NE	2.36	0.41
35:DK:76:VAL:CG1	40:DP:72:VAL:HG22	2.47	0.41
36:DL:75:ALA:O	36:DL:108:ALA:HA	2.21	0.41
36:DL:79:LEU:O	36:DL:82:LEU:HD22	2.21	0.41
36:DL:95:LEU:HD12	36:DL:101:ILE:HD13	2.03	0.41
37:DM:53:MET:HE1	37:DM:103:TYR:CB	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:31:PHE:CE2	37:DM:110:GLU:HB2	2.56	0.41
37:DM:62:LYS:HD3	37:DM:64:TRP:CZ2	2.56	0.41
38:DN:65:LEU:HG	38:DN:69:ARG:NH2	2.36	0.41
39:DO:117:PHE:OXT	39:DO:117:PHE:CD1	2.73	0.41
39:DO:49:VAL:HG12	39:DO:50:ALA:N	2.34	0.41
42:DR:46:GLU:OE1	42:DR:47:VAL:N	2.53	0.41
25:DA:572:A:OP2	42:DR:80:ARG:NH2	2.53	0.41
43:DS:64:ALA:O	43:DS:65:ASP:HB3	2.21	0.41
50:DZ:35:VAL:HG21	50:DZ:37:ARG:CZ	2.49	0.41
1:AA:1432:G:HO2'	1:AA:1433:A:P	2.43	0.41
1:AA:168:G:H8	1:AA:168:G:C5'	2.34	0.41
1:AA:237:G:H2'	1:AA:238:A:H8	1.86	0.41
1:AA:439:U:C6	4:AD:119:HIS:CD2	3.09	0.41
1:AA:68:G:C6	1:AA:69:G:H1'	2.55	0.41
1:AA:588:G:C4	1:AA:753:A:C2	3.09	0.41
1:AA:75:G:H5'	1:AA:76:G:P	2.61	0.41
1:AA:864:A:H2'	1:AA:865:A:C8	2.56	0.41
2:AB:218:ALA:HB1	2:AB:221:ARG:HH21	1.85	0.41
3:AC:156:LEU:CD1	3:AC:163:ARG:CB	2.99	0.41
4:AD:151:GLN:O	4:AD:152:SER:O	2.39	0.41
4:AD:68:GLU:O	4:AD:72:ARG:HG2	2.21	0.41
5:AE:104:ILE:CD1	5:AE:122:VAL:CG2	2.98	0.41
5:AE:143:LEU:O	5:AE:144:GLU:C	2.59	0.41
1:AA:643:C:H5'	8:AH:31:LEU:CD2	2.51	0.41
10:AJ:17:LEU:N	10:AJ:20:GLN:HG3	2.35	0.41
13:AM:80:MET:CA	13:AM:91:ARG:HH22	2.34	0.41
14:AN:25:GLU:CB	14:AN:28:ALA:HB2	2.49	0.41
14:AN:35:ALA:HB2	14:AN:41:ARG:NE	2.36	0.41
15:AO:63:ARG:HA	15:AO:63:ARG:HD2	1.89	0.41
17:AQ:16:MET:CG	17:AQ:19:SER:HB3	2.50	0.41
20:AT:14:GLU:C	20:AT:16:ALA:N	2.75	0.41
20:AT:47:GLN:CA	20:AT:47:GLN:NE2	2.84	0.41
20:AT:67:HIS:C	20:AT:68:LYS:HG3	2.42	0.41
11:AK:126:ARG:N	21:AU:33:ARG:NH1	2.68	0.41
11:AK:110:THR:HG23	21:AU:4:LYS:CA	2.51	0.41
24:AY:9:ASP:CB	24:AY:13:ARG:NH2	2.81	0.41
1:BA:1151:A:N1	1:BA:1152:A:C6	2.89	0.41
1:BA:1298:U:C4'	1:BA:1299:A:C4	3.02	0.41
1:BA:1399:C:H4'	1:BA:1400:C:C5'	2.51	0.41
1:BA:1449:C:H2'	1:BA:1450:U:H5'	2.02	0.41
1:BA:254:G:H2'	1:BA:255:G:O4'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:292:G:N2	1:BA:309:A:C4	2.89	0.41
1:BA:325:A:H2'	1:BA:326:G:O4'	2.21	0.41
1:BA:341:C:H2'	1:BA:342:C:C6	2.55	0.41
1:BA:46:G:H2'	1:BA:366:A:N7	2.36	0.41
1:BA:511:C:C6	1:BA:512:U:C5	3.09	0.41
1:BA:526:C:H2'	1:BA:527:G:H4'	2.03	0.41
1:BA:608:A:H2'	1:BA:609:A:O4'	2.20	0.41
1:BA:719:C:C5	1:BA:720:C:C4	3.09	0.41
1:BA:856:C:H2'	1:BA:857:C:H5'	2.02	0.41
3:BC:112:ALA:O	3:BC:114:LEU:N	2.54	0.41
3:BC:166:TRP:HE3	3:BC:167:TYR:N	2.19	0.41
3:BC:28:PHE:O	3:BC:28:PHE:HD2	2.04	0.41
3:BC:36:PHE:HZ	14:BN:90:ARG:NH1	2.19	0.41
6:BF:59:TYR:HE2	18:BR:66:LEU:CD2	2.34	0.41
6:BF:67:PRO:O	6:BF:69:GLU:N	2.54	0.41
6:BF:91:ARG:CG	6:BF:92:THR:H	2.33	0.41
9:BI:128:LYS:CD	9:BI:129:ARG:N	2.83	0.41
10:BJ:35:GLN:HG2	10:BJ:77:VAL:CG2	2.50	0.41
11:BK:92:ARG:HG3	11:BK:92:ARG:HH11	1.85	0.41
13:BM:5:GLY:O	13:BM:7:ASN:N	2.54	0.41
14:BN:2:LYS:O	14:BN:4:SER:N	2.54	0.41
16:BP:38:PHE:CE2	16:BP:51:ARG:HB2	2.55	0.41
16:BP:53:ASP:OD1	16:BP:53:ASP:C	2.59	0.41
18:BR:24:ASP:C	18:BR:26:ALA:H	2.23	0.41
18:BR:50:TYR:HA	18:BR:53:GLN:NE2	2.36	0.41
19:BS:18:VAL:O	19:BS:22:VAL:HG23	2.21	0.41
19:BS:46:LEU:C	19:BS:47:THR:HG23	2.41	0.41
20:BT:19:HIS:HD2	20:BT:20:ASN:HD22	1.67	0.41
53:C2:28:ARG:C	53:C2:30:VAL:N	2.75	0.41
25:CA:1053:C:N4	25:CA:1054:A:N7	2.69	0.41
25:CA:1056:G:O2'	25:CA:1086:A:H1'	2.21	0.41
25:CA:1091:G:O2'	25:CA:1092:C:C5	2.73	0.41
25:CA:1104:C:H2'	25:CA:1105:U:H6	1.85	0.41
25:CA:980:A:N7	25:CA:1136:G:H5''	2.36	0.41
25:CA:1179:G:O5'	25:CA:1180:U:O5'	2.39	0.41
25:CA:1417:C:O2'	25:CA:1587:G:O2'	2.27	0.41
25:CA:1550:C:O2'	25:CA:1551:A:H5'	2.21	0.41
25:CA:1627:G:C2	25:CA:1628:G:C8	3.09	0.41
25:CA:1731:G:C2	25:CA:1733:G:H1'	2.55	0.41
25:CA:1924:C:H2'	25:CA:1925:C:C5'	2.51	0.41
25:CA:2289:G:N3	25:CA:2289:G:H2'	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2313:C:C2'	25:CA:2314:A:H5'	2.51	0.41
25:CA:2675:A:H2'	25:CA:2676:C:O5'	2.21	0.41
25:CA:2757:A:OP1	55:C4:20:ASP:N	2.54	0.41
25:CA:2886:A:C5	25:CA:2887:A:N7	2.88	0.41
25:CA:587:C:O2'	36:CL:19:LEU:CD1	2.68	0.41
27:CC:35:LYS:CG	27:CC:36:ASN:N	2.84	0.41
27:CC:51:ARG:HE	27:CC:52:HIS:CE1	2.38	0.41
29:CE:12:LEU:HD23	29:CE:13:THR:O	2.21	0.41
30:CF:15:LEU:HA	30:CF:18:GLU:HB2	2.03	0.41
33:CI:57:VAL:HB	33:CI:68:PHE:CA	2.50	0.41
34:CJ:27:ARG:NH1	34:CJ:27:ARG:HG2	2.36	0.41
35:CK:112:PHE:O	35:CK:115:ILE:HB	2.21	0.41
25:CA:2547:A:H5'	35:CK:29:HIS:NE2	2.36	0.41
37:CM:31:PHE:CZ	37:CM:110:GLU:CB	3.03	0.41
38:CN:100:CYS:SG	38:CN:100:CYS:O	2.79	0.41
38:CN:82:GLU:O	38:CN:85:PRO:HG2	2.21	0.41
39:CO:19:GLN:C	39:CO:21:LEU:N	2.73	0.41
40:CP:25:VAL:HG13	40:CP:25:VAL:O	2.21	0.41
41:CQ:107:ALA:CB	42:CR:48:LYS:HZ2	2.34	0.41
42:CR:43:ASN:HB3	42:CR:44:GLY:H	1.51	0.41
46:CV:70:ILE:HG22	46:CV:72:VAL:HG12	2.03	0.41
53:D2:43:THR:O	53:D2:44:VAL:CB	2.67	0.41
55:D4:30:GLU:HB3	55:D4:33:HIS:CG	2.56	0.41
25:DA:1235:G:C6	25:DA:1236:G:N1	2.89	0.41
25:DA:1258:U:H2'	25:DA:1259:G:C8	2.56	0.41
25:DA:1391:U:H6	25:DA:1391:U:H3'	1.85	0.41
25:DA:1469:A:N3	25:DA:1469:A:C2'	2.84	0.41
25:DA:1484:U:C2	25:DA:1485:U:C5	3.09	0.41
25:DA:1744:A:C8	25:DA:1745:A:C8	3.09	0.41
25:DA:1750:G:H2'	25:DA:1751:U:O5'	2.21	0.41
25:DA:2258:C:O2'	25:DA:2426:A:H5''	2.20	0.41
25:DA:2311:A:H8	25:DA:2311:A:H5'	1.85	0.41
25:DA:2317:A:H2'	25:DA:2318:G:C5'	2.50	0.41
25:DA:2317:A:H2'	25:DA:2318:G:H5'	2.01	0.41
25:DA:2339:C:O2'	25:DA:2340:A:C5'	2.69	0.41
25:DA:2476:A:N3	25:DA:2476:A:H2'	2.35	0.41
25:DA:2655:G:N3	25:DA:2664:G:C6	2.89	0.41
25:DA:2808:G:C2	25:DA:2891:U:C6	3.09	0.41
25:DA:27:G:O2'	25:DA:28:A:OP2	2.35	0.41
25:DA:298:G:H5''	25:DA:299:A:OP1	2.21	0.41
25:DA:46:G:N1	25:DA:47:C:C4	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:528:A:C2	25:DA:2043:C:C5'	3.03	0.41
25:DA:52:A:H8	25:DA:52:A:O5'	2.04	0.41
25:DA:668:A:H2'	25:DA:670:A:N6	2.36	0.41
25:DA:749:A:H4'	25:DA:1271:G:N3	2.36	0.41
25:DA:915:C:C2'	25:DA:916:G:H5'	2.51	0.41
25:DA:932:U:O4'	25:DA:933:A:C2	2.73	0.41
56:DB:24:G:N1	56:DB:56:G:C2	2.89	0.41
27:DC:227:VAL:O	27:DC:227:VAL:HG22	2.20	0.41
27:DC:264:LYS:HB3	27:DC:265:PHE:CD1	2.56	0.41
27:DC:79:ARG:NH2	27:DC:79:ARG:HG3	2.36	0.41
30:DF:47:LYS:O	30:DF:50:ASP:HB2	2.21	0.41
30:DF:45:ASP:CB	30:DF:48:LEU:HB3	2.51	0.41
30:DF:50:ASP:O	30:DF:53:ALA:HB3	2.21	0.41
30:DF:62:GLN:OE1	30:DF:90:LEU:HD23	2.20	0.41
31:DG:42:VAL:CG2	31:DG:43:LYS:N	2.84	0.41
32:DH:119:ASN:N	32:DH:120:GLY:HA3	2.33	0.41
36:DL:86:GLU:HG2	36:DL:86:GLU:O	2.21	0.41
38:DN:81:ASN:O	38:DN:85:PRO:CD	2.69	0.41
39:DO:28:VAL:CG2	39:DO:36:TYR:O	2.68	0.41
39:DO:80:GLU:O	39:DO:84:GLU:HG3	2.21	0.41
40:DP:103:THR:O	40:DP:104:GLY:C	2.59	0.41
40:DP:8:GLU:O	40:DP:54:LEU:HD22	2.21	0.41
45:DU:6:ARG:HA	45:DU:6:ARG:HD3	1.74	0.41
46:DV:69:GLU:C	46:DV:70:ILE:HG12	2.42	0.41
46:DV:80:HIS:C	46:DV:80:HIS:ND1	2.74	0.41
48:DX:57:VAL:O	48:DX:60:LYS:N	2.53	0.41
49:DY:9:LYS:CB	49:DY:12:GLU:HG2	2.51	0.41
1:AA:1013:G:O5'	1:AA:1013:G:H8	2.04	0.41
1:AA:112:G:H2'	1:AA:113:G:H5'	2.02	0.41
1:AA:1197:A:OP1	1:AA:1198:G:OP2	2.38	0.41
1:AA:1421:G:C6	1:AA:1422:G:N7	2.89	0.41
1:AA:246:A:C4	1:AA:279:A:N6	2.89	0.41
1:AA:264:C:O2	17:AQ:65:PRO:HG2	2.21	0.41
1:AA:322:C:C2	1:AA:332:G:N2	2.89	0.41
1:AA:392:C:H2'	1:AA:393:A:C8	2.56	0.41
1:AA:524:G:H2'	1:AA:525:C:C6	2.56	0.41
1:AA:66:A:N1	1:AA:67:C:C6	2.89	0.41
1:AA:75:G:N3	1:AA:75:G:H2'	2.35	0.41
2:AB:65:LYS:CB	2:AB:158:ASP:OD2	2.66	0.41
2:AB:187:ASP:HB2	2:AB:203:ASP:OD1	2.21	0.41
3:AC:199:VAL:O	3:AC:199:VAL:HG22	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:35:ASP:C	3:AC:37:LYS:H	2.24	0.41
5:AE:22:LYS:HB3	5:AE:29:ILE:CG2	2.51	0.41
7:AG:4:ARG:O	7:AG:5:VAL:C	2.59	0.41
7:AG:61:PHE:HD2	7:AG:123:LEU:HD11	1.86	0.41
7:AG:72:VAL:O	7:AG:140:VAL:HG12	2.21	0.41
8:AH:17:GLN:CD	8:AH:69:ALA:HB1	2.41	0.41
8:AH:98:LEU:HD23	8:AH:98:LEU:H	1.82	0.41
13:AM:52:ILE:O	13:AM:55:LEU:HB2	2.21	0.41
14:AN:85:ARG:O	14:AN:86:GLU:C	2.60	0.41
16:AP:80:LYS:CA	16:AP:80:LYS:HE3	2.43	0.41
18:AR:24:ASP:O	18:AR:26:ALA:N	2.53	0.41
20:AT:56:ILE:CD1	20:AT:60:GLN:HG2	2.51	0.41
1:AA:1526:G:P	21:AU:38:GLU:HB3	2.61	0.41
22:AV:16:U:H2'	22:AV:17:C:H5'	2.03	0.41
22:AV:18:G:C4	22:AV:58:A:N1	2.89	0.41
1:BA:1021:A:C2'	1:BA:1022:A:H5''	2.50	0.41
1:BA:1118:U:H2'	1:BA:1119:C:C6	2.55	0.41
1:BA:1129:C:C2'	1:BA:1139:G:N7	2.84	0.41
1:BA:274:A:H4'	1:BA:275:G:OP1	2.18	0.41
1:BA:376:G:C5	1:BA:377:G:N7	2.89	0.41
1:BA:452:A:C3'	1:BA:452:A:C8	3.03	0.41
1:BA:585:G:OP1	17:BQ:38:LYS:HE3	2.21	0.41
1:BA:603:U:C2'	1:BA:604:G:O5'	2.69	0.41
1:BA:710:G:N2	1:BA:711:G:H1'	2.36	0.41
1:BA:840:C:O2	1:BA:847:G:N2	2.54	0.41
1:BA:585:G:H1'	1:BA:879:C:H5''	2.03	0.41
1:BA:87:C:O3'	1:BA:88:U:O4'	2.38	0.41
1:BA:939:G:N1	1:BA:940:C:N3	2.69	0.41
2:BB:25:LYS:CE	2:BB:193:ASP:OD2	2.69	0.41
2:BB:19:THR:O	2:BB:20:ARG:NH2	2.53	0.41
3:BC:32:LEU:O	3:BC:35:ASP:HB2	2.20	0.41
4:BD:187:ARG:HH12	4:BD:191:SER:CB	2.34	0.41
4:BD:7:LYS:HZ3	4:BD:21:LYS:HD2	1.86	0.41
1:BA:10:A:OP2	5:BE:130:THR:HG21	2.21	0.41
5:BE:136:VAL:HG23	5:BE:140:ILE:HD11	2.02	0.41
1:BA:1373:G:C5'	7:BG:35:LYS:HB2	2.51	0.41
8:BH:17:GLN:HE21	8:BH:71:VAL:HG23	1.86	0.41
11:BK:23:HIS:O	11:BK:29:THR:HA	2.20	0.41
11:BK:45:THR:O	11:BK:48:GLY:N	2.54	0.41
11:BK:89:GLY:O	11:BK:90:PRO:C	2.59	0.41
13:BM:10:ASP:OD1	13:BM:11:HIS:N	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:39:ALA:HB3	13:BM:42:VAL:HG13	2.02	0.41
13:BM:51:GLN:O	13:BM:55:LEU:CD1	2.68	0.41
15:BO:2:LEU:HD12	15:BO:2:LEU:HA	1.87	0.41
17:BQ:51:GLU:O	17:BQ:52:CYS:O	2.38	0.41
1:BA:1320:C:N4	19:BS:35:ARG:HB2	2.36	0.41
20:BT:29:THR:HA	20:BT:32:LYS:HG2	2.04	0.41
21:BU:33:ARG:HD3	21:BU:34:ARG:CB	2.50	0.41
22:BV:5:G:N3	22:BV:69:G:N2	2.68	0.41
25:CA:125:A:C6	53:C2:10:LEU:HD13	2.56	0.41
25:CA:1450:G:H21	25:CA:1452:G:H1	1.68	0.41
25:CA:153:U:H6	25:CA:153:U:O5'	2.04	0.41
25:CA:1628:G:C2'	25:CA:1629:U:O5'	2.69	0.41
25:CA:1744:A:N3	25:CA:1744:A:H2'	2.35	0.41
25:CA:1805:A:H1'	27:CC:49:THR:O	2.21	0.41
25:CA:1843:C:H2'	25:CA:1844:C:C6	2.56	0.41
25:CA:1947:C:N3	25:CA:1960:A:C2	2.89	0.41
25:CA:1982:U:H2'	25:CA:1982:U:O2	2.21	0.41
25:CA:2002:G:OP1	38:CN:13:ASN:HA	2.21	0.41
25:CA:2070:A:H2'	25:CA:2071:A:O4'	2.21	0.41
25:CA:2072:C:H5''	25:CA:2072:C:H6	1.86	0.41
25:CA:2191:A:C2	25:CA:2192:U:C6	3.09	0.41
25:CA:2278:A:H8	25:CA:2278:A:H5''	1.86	0.41
25:CA:2297:A:C6	25:CA:2298:A:C8	3.09	0.41
25:CA:2687:U:H2'	25:CA:2688:G:O4'	2.20	0.41
25:CA:513:A:C2	25:CA:514:A:C4	3.09	0.41
25:CA:557:C:C2	25:CA:558:U:C5	3.09	0.41
25:CA:614:A:H8	25:CA:614:A:H5'	1.86	0.41
25:CA:706:A:H2'	25:CA:707:G:O4'	2.21	0.41
25:CA:828:U:O2'	25:CA:829:A:H5'	2.21	0.41
25:CA:842:U:C2'	25:CA:843:G:H5'	2.51	0.41
26:CB:73:A:C5	26:CB:104:A:C2	3.09	0.41
26:CB:55:U:C2'	26:CB:55:U:O2	2.60	0.41
27:CC:13:ARG:HG2	27:CC:14:HIS:CD2	2.56	0.41
27:CC:142:ASN:H	27:CC:154:ALA:HB3	1.85	0.41
29:CE:138:LEU:O	29:CE:139:LYS:C	2.59	0.41
30:CF:91:ARG:O	30:CF:94:ARG:HG3	2.21	0.41
32:CH:69:ALA:HB1	32:CH:138:VAL:HG12	2.04	0.41
32:CH:52:ALA:O	32:CH:56:ALA:HB3	2.21	0.41
33:CI:24:GLY:HA3	33:CI:25:PRO:HD3	1.99	0.41
39:CO:87:ILE:C	39:CO:88:LYS:O	2.59	0.41
40:CP:90:ALA:HB2	40:CP:112:ARG:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CU:13:LEU:HA	45:CU:13:LEU:HD23	1.89	0.41
46:CV:83:LYS:HE3	46:CV:83:LYS:HB2	1.94	0.41
54:D3:42:HIS:O	54:D3:45:PRO:HG2	2.20	0.41
25:DA:1113:U:H2'	25:DA:1114:C:H6	1.84	0.41
25:DA:1257:C:H4'	29:DE:78:TRP:CD2	2.56	0.41
25:DA:1300:G:N3	25:DA:1626:A:C6	2.88	0.41
25:DA:1668:A:H4'	25:DA:1669:A:O5'	2.21	0.41
25:DA:1782:U:C4	25:DA:2587:A:C2	3.09	0.41
25:DA:2035:G:H4'	25:DA:2036:C:OP2	2.21	0.41
25:DA:2043:C:H2'	25:DA:2044:C:C6	2.56	0.41
25:DA:2070:A:C2'	25:DA:2070:A:N3	2.82	0.41
25:DA:2201:G:O6	25:DA:2223:G:C6	2.74	0.41
25:DA:2217:G:O2'	25:DA:2218:G:H5'	2.21	0.41
25:DA:2259:U:C6	25:DA:2427:C:C4	3.09	0.41
25:DA:2468:A:H2'	25:DA:2476:A:C6	2.56	0.41
25:DA:2769:U:C4	25:DA:2770:G:C5	3.09	0.41
25:DA:2816:G:C2'	25:DA:2817:U:O5'	2.69	0.41
25:DA:476:G:H4'	25:DA:502:A:N1	2.36	0.41
25:DA:617:G:H2'	25:DA:618:G:O5'	2.21	0.41
56:DB:36:C:H5''	56:DB:37:C:OP2	2.20	0.41
27:DC:261:ARG:HG2	27:DC:262:THR:CG2	2.48	0.41
27:DC:64:VAL:CG1	27:DC:65:ASP:N	2.83	0.41
32:DH:40:THR:O	32:DH:42:LYS:CA	2.69	0.41
32:DH:46:PHE:O	32:DH:49:ALA:HB3	2.21	0.41
34:DJ:59:ALA:H	34:DJ:126:ALA:HA	1.86	0.41
37:DM:1:MET:HE3	37:DM:43:ALA:HB1	2.03	0.41
43:DS:82:MET:HB2	43:DS:98:LYS:HB2	2.03	0.41
1:AA:1035:A:OP2	1:AA:1035:A:C8	2.74	0.40
1:AA:1236:A:O2'	1:AA:1304:G:H4'	2.21	0.40
1:AA:1394:A:N6	1:AA:1501:C:H5'	2.36	0.40
1:AA:1492:A:C8	1:AA:1492:A:OP2	2.74	0.40
1:AA:495:A:H4'	1:AA:496:A:O4'	2.20	0.40
1:AA:614:C:C4	1:AA:615:G:N7	2.89	0.40
1:AA:749:A:C6	1:AA:750:C:C4	3.09	0.40
1:AA:755:G:H2'	1:AA:756:C:H6	1.87	0.40
1:AA:840:C:H6	1:AA:840:C:O5'	2.04	0.40
1:AA:840:C:N3	1:AA:846:G:O6	2.54	0.40
1:AA:977:A:H3'	1:AA:977:A:N3	2.37	0.40
2:AB:131:LYS:O	2:AB:132:GLU:C	2.60	0.40
2:AB:206:ILE:N	2:AB:206:ILE:HD13	2.36	0.40
2:AB:211:LEU:C	2:AB:213:LEU:H	2.25	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:141:VAL:O	4:AD:141:VAL:HG23	2.20	0.40
4:AD:147:LYS:HD3	4:AD:147:LYS:N	2.33	0.40
5:AE:131:ASN:O	5:AE:135:VAL:HG12	2.22	0.40
5:AE:150:GLU:C	5:AE:152:VAL:H	2.25	0.40
6:AF:45:ARG:HB3	6:AF:59:TYR:CD1	2.55	0.40
9:AI:102:PHE:N	9:AI:102:PHE:CD1	2.87	0.40
9:AI:19:PHE:O	9:AI:62:LEU:HA	2.21	0.40
9:AI:20:ILE:CD1	9:AI:85:ALA:CB	2.99	0.40
12:AL:27:PRO:HG2	12:AL:28:GLN:OE1	2.21	0.40
12:AL:93:ARG:C	12:AL:94:TYR:CG	2.95	0.40
14:AN:53:ARG:HH11	14:AN:53:ARG:HG2	1.86	0.40
17:AQ:57:VAL:C	17:AQ:58:VAL:CG1	2.89	0.40
17:AQ:47:ASP:HB2	17:AQ:74:LEU:HD21	2.02	0.40
19:AS:54:ARG:HH21	19:AS:55:GLN:CB	2.34	0.40
20:AT:71:ALA:O	20:AT:72:ALA:C	2.59	0.40
21:AU:8:ASN:N	21:AU:8:ASN:OD1	2.53	0.40
24:AY:75:MET:O	24:AY:76:SER:C	2.59	0.40
1:BA:1013:G:N2	1:BA:1017:U:C2	2.90	0.40
1:BA:1089:G:N2	1:BA:1090:U:H1'	2.35	0.40
1:BA:1167:A:O2'	1:BA:1168:U:C4	2.74	0.40
1:BA:1239:A:N6	1:BA:1299:A:N6	2.70	0.40
1:BA:1486:G:C2	1:BA:1487:G:N3	2.89	0.40
1:BA:1524:C:H6	1:BA:1524:C:O5'	2.03	0.40
1:BA:156:C:C4	1:BA:157:U:C4	3.09	0.40
1:BA:189:A:H2'	1:BA:190:A:H5'	2.04	0.40
1:BA:202:G:H2'	1:BA:203:G:O4'	2.21	0.40
1:BA:322:C:O3'	20:BT:17:ARG:CG	2.69	0.40
1:BA:542:G:C2	1:BA:543:U:C5	3.10	0.40
1:BA:657:U:O2	15:BO:21:THR:CG2	2.68	0.40
1:BA:738:C:H2'	1:BA:739:C:C5	2.54	0.40
1:BA:844:G:OP2	1:BA:844:G:C5	2.74	0.40
2:BB:110:ILE:O	2:BB:111:LYS:C	2.60	0.40
4:BD:173:ASP:CG	4:BD:176:LYS:HE2	2.42	0.40
5:BE:38:VAL:CG2	5:BE:70:MET:CE	2.99	0.40
6:BF:40:GLU:CB	6:BF:42:TRP:HE1	2.34	0.40
6:BF:52:ASN:O	6:BF:53:LYS:HB2	2.21	0.40
7:BG:87:PRO:HB3	7:BG:144:ALA:HB2	2.03	0.40
9:BI:33:SER:HB3	9:BI:36:GLN:NE2	2.37	0.40
9:BI:46:VAL:O	9:BI:49:GLN:HB2	2.21	0.40
9:BI:13:SER:O	9:BI:68:GLY:HA3	2.21	0.40
12:BL:62:VAL:HG23	12:BL:63:THR:N	2.36	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:14:ALA:C	14:BN:16:ALA:N	2.74	0.40
17:BQ:31:PRO:C	17:BQ:32:ILE:HD12	2.41	0.40
19:BS:9:PHE:CD1	19:BS:10:ILE:N	2.90	0.40
1:BA:1319:A:H5'	19:BS:4:LEU:HD13	2.03	0.40
21:BU:13:VAL:C	21:BU:15:LEU:HG	2.42	0.40
51:C0:52:LYS:CE	51:C0:55:ALA:HB2	2.51	0.40
51:C0:52:LYS:HE2	51:C0:55:ALA:CB	2.50	0.40
55:C4:2:LYS:HZ2	55:C4:2:LYS:HB2	1.85	0.40
25:CA:1091:G:O2'	25:CA:1092:C:H5	2.04	0.40
25:CA:1234:U:H3'	25:CA:1234:U:C6	2.56	0.40
25:CA:135:U:O5'	25:CA:135:U:H6	2.04	0.40
25:CA:1446:C:O5'	25:CA:1446:C:H6	2.04	0.40
25:CA:1490:A:O2'	25:CA:1491:G:H5'	2.21	0.40
25:CA:1478:G:C6	25:CA:1514:G:C2	3.09	0.40
25:CA:1569:A:C6	25:CA:1570:A:C6	3.09	0.40
25:CA:1613:G:N2	25:CA:1619:G:C4	2.89	0.40
25:CA:1724:G:H2'	25:CA:1725:U:H5'	2.02	0.40
25:CA:2056:G:C2'	25:CA:2056:G:N3	2.84	0.40
25:CA:2163:A:H5'	25:CA:2170:A:O2'	2.21	0.40
25:CA:2189:U:H2'	25:CA:2190:G:C8	2.56	0.40
25:CA:2207:C:C2'	25:CA:2208:C:O5'	2.68	0.40
25:CA:162:U:O4	25:CA:2218:G:H4'	2.20	0.40
25:CA:2312:U:C3'	25:CA:2312:U:C6	3.03	0.40
25:CA:2401:U:H6	25:CA:2401:U:O5'	2.03	0.40
25:CA:2443:C:O2'	25:CA:2444:G:H5'	2.21	0.40
25:CA:2722:G:C2'	25:CA:2723:C:H5'	2.51	0.40
25:CA:2760:C:O2	25:CA:2760:C:H2'	2.21	0.40
25:CA:2807:U:C2'	25:CA:2808:G:H5'	2.51	0.40
25:CA:838:C:O2'	25:CA:839:U:H5'	2.21	0.40
27:CC:146:LYS:O	27:CC:149:LYS:HB3	2.21	0.40
25:CA:729:G:C5	27:CC:206:LYS:HB2	2.56	0.40
27:CC:75:ALA:HB2	27:CC:95:TYR:HA	2.03	0.40
27:CC:97:ASP:OD1	27:CC:97:ASP:C	2.59	0.40
25:CA:2619:C:H4'	28:CD:156:PHE:O	2.21	0.40
28:CD:63:PRO:O	28:CD:64:GLU:C	2.60	0.40
25:CA:1059:G:C2'	33:CI:131:THR:OG1	2.69	0.40
37:CM:57:VAL:C	37:CM:60:GLN:HE21	2.24	0.40
38:CN:23:ASN:O	38:CN:25:ALA:N	2.54	0.40
38:CN:3:HIS:O	38:CN:4:ARG:HB2	2.21	0.40
39:CO:41:ALA:HB1	39:CO:42:PRO:CD	2.51	0.40
43:CS:7:HIS:CD2	43:CS:7:HIS:C	2.94	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CU:42:LYS:NZ	45:CU:42:LYS:HB2	2.35	0.40
45:CU:53:GLN:H	45:CU:54:PRO:HD3	1.83	0.40
45:CU:39:ASN:HD22	45:CU:62:ALA:HB3	1.86	0.40
51:D0:30:ASP:O	51:D0:31:LYS:C	2.60	0.40
25:DA:1069:A:O3'	25:DA:1070:A:H8	2.04	0.40
25:DA:1095:A:C6	25:DA:1096:A:C2	3.09	0.40
25:DA:1010:A:N3	25:DA:1153:C:H1'	2.36	0.40
25:DA:1542:U:O2'	25:DA:1543:G:C5'	2.68	0.40
25:DA:1644:C:O2	25:DA:1644:C:C2'	2.66	0.40
25:DA:1734:G:C5	25:DA:1735:A:N7	2.89	0.40
25:DA:1756:G:C8	25:DA:1756:G:H3'	2.56	0.40
25:DA:1760:C:C5	25:DA:1761:C:C4	3.10	0.40
25:DA:1792:G:O2'	25:DA:1793:C:H5'	2.20	0.40
25:DA:1867:G:C5	25:DA:1868:C:C5	3.09	0.40
25:DA:1862:G:C2	25:DA:1881:C:C2	3.09	0.40
25:DA:1996:C:H5	35:DK:32:TYR:OH	2.04	0.40
25:DA:2100:G:C6	25:DA:2190:G:C6	3.08	0.40
25:DA:2215:C:O2'	25:DA:2216:G:H5'	2.21	0.40
25:DA:2334:U:O3'	39:DO:13:ARG:HB2	2.21	0.40
25:DA:2545:G:C2'	25:DA:2546:U:H5'	2.51	0.40
25:DA:2661:G:N1	25:DA:2662:A:N3	2.69	0.40
25:DA:2683:C:C6	25:DA:2684:U:H5	2.39	0.40
25:DA:371:A:N3	48:DX:60:LYS:NZ	2.69	0.40
25:DA:419:U:H5''	60:DA:3232:HOH:O	2.21	0.40
25:DA:511:U:H5''	25:DA:512:G:OP2	2.21	0.40
25:DA:84:A:H4'	25:DA:85:G:O5'	2.21	0.40
56:DB:49:C:OP1	39:DO:102:ARG:N	2.53	0.40
27:DC:194:VAL:HG23	27:DC:195:GLY:N	2.35	0.40
29:DE:18:THR:HG22	29:DE:19:PHE:CE2	2.56	0.40
29:DE:48:THR:C	29:DE:50:ALA:H	2.23	0.40
25:DA:659:G:C4'	29:DE:95:LYS:HD3	2.51	0.40
30:DF:147:ARG:HG3	30:DF:149:ARG:H	1.86	0.40
30:DF:21:TYR:HH	30:DF:164:GLU:CD	2.24	0.40
31:DG:174:LYS:HG2	31:DG:175:LYS:N	2.36	0.40
32:DH:75:LEU:HA	32:DH:75:LEU:HD23	1.75	0.40
32:DH:85:GLY:O	32:DH:86:ASP:C	2.60	0.40
33:DI:30:GLN:OE1	33:DI:32:VAL:HB	2.21	0.40
34:DJ:103:ILE:HG22	34:DJ:104:ALA:N	2.35	0.40
36:DL:92:LEU:HD21	36:DL:124:GLY:HA3	2.03	0.40
38:DN:29:VAL:HG11	38:DN:75:ILE:HG23	2.01	0.40
38:DN:9:GLN:O	38:DN:17:ARG:NH2	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DP:61:ARG:HG3	40:DP:61:ARG:HH21	1.87	0.40
42:DR:51:VAL:CB	42:DR:52:PRO:CD	2.94	0.40
43:DS:28:LYS:HD3	43:DS:31:GLN:OE1	2.22	0.40
48:DX:7:THR:OG1	48:DX:9:LYS:HD2	2.21	0.40
1:AA:1118:U:O3'	9:AI:84:ARG:NH2	2.54	0.40
1:AA:1165:U:H2'	1:AA:1166:G:O4'	2.22	0.40
1:AA:1216:A:C4	1:AA:1217:C:H5	2.36	0.40
1:AA:1216:A:C6	1:AA:1217:C:C4	3.09	0.40
1:AA:1312:G:C2	1:AA:1326:U:N3	2.89	0.40
1:AA:186:C:H2'	1:AA:187:G:O4'	2.20	0.40
1:AA:32:A:H2'	1:AA:33:A:C8	2.56	0.40
1:AA:389:A:C3'	1:AA:390:U:H5'	2.51	0.40
1:AA:60:A:C2	1:AA:107:G:N3	2.88	0.40
1:AA:720:C:H3'	1:AA:721:G:C8	2.56	0.40
1:AA:16:A:C2	1:AA:920:U:O2	2.74	0.40
4:AD:154:VAL:HA	4:AD:157:ALA:HB3	2.03	0.40
4:AD:170:LEU:HD12	4:AD:170:LEU:H	1.87	0.40
4:AD:196:GLU:C	4:AD:198:LEU:N	2.74	0.40
5:AE:15:ILE:HD11	5:AE:37:VAL:HB	2.03	0.40
5:AE:81:GLN:N	5:AE:146:MET:HE3	2.34	0.40
6:AF:49:TYR:HA	6:AF:50:PRO:HD3	1.82	0.40
7:AG:49:LEU:CD1	7:AG:60:ALA:CB	2.99	0.40
8:AH:19:ALA:O	8:AH:20:ASN:HB2	2.21	0.40
8:AH:5:PRO:O	8:AH:8:ASP:N	2.55	0.40
9:AI:18:VAL:HG12	9:AI:18:VAL:O	2.21	0.40
11:AK:98:ALA:O	11:AK:101:ALA:HB3	2.21	0.40
11:AK:111:ASP:CG	11:AK:113:THR:HG23	2.42	0.40
11:AK:96:ILE:O	11:AK:99:LEU:N	2.53	0.40
12:AL:86:VAL:O	12:AL:88:ASP:N	2.54	0.40
16:AP:46:LYS:HE2	16:AP:47:GLU:H	1.86	0.40
18:AR:62:ARG:HB3	18:AR:69:TYR:CZ	2.56	0.40
1:BA:1074:G:C2	1:BA:1102:A:C4	3.09	0.40
1:BA:1131:G:N7	1:BA:1132:C:C5	2.90	0.40
1:BA:1505:G:C2'	23:BX:15:A:OP2	2.69	0.40
1:BA:255:G:H2'	1:BA:256:U:C6	2.56	0.40
1:BA:293:G:C6	1:BA:305:G:N1	2.90	0.40
1:BA:457:G:N2	1:BA:476:U:C2	2.89	0.40
1:BA:734:G:H2'	1:BA:735:C:H6	1.87	0.40
1:BA:736:C:OP1	18:BR:60:ARG:NH1	2.54	0.40
1:BA:740:U:O2'	1:BA:741:G:C5'	2.69	0.40
1:BA:977:A:C1'	1:BA:982:U:O4	2.69	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:984:C:H2'	1:BA:985:C:H6	1.86	0.40
2:BB:136:ARG:O	2:BB:139:GLU:CG	2.69	0.40
2:BB:170:ILE:O	2:BB:171:ALA:C	2.59	0.40
3:BC:11:LEU:HD13	3:BC:17:TRP:CE2	2.56	0.40
3:BC:150:VAL:O	3:BC:166:TRP:HA	2.21	0.40
3:BC:6:PRO:HB3	3:BC:181:ILE:HG21	2.04	0.40
4:BD:114:ARG:O	4:BD:116:LEU:N	2.55	0.40
4:BD:186:GLU:CB	4:BD:189:ASP:OD1	2.69	0.40
5:BE:35:LEU:HD12	5:BE:35:LEU:HA	1.73	0.40
7:BG:45:ALA:CA	7:BG:120:ALA:HB2	2.50	0.40
8:BH:4:ASP:CG	8:BH:7:ALA:HB2	2.41	0.40
10:BJ:89:ARG:O	10:BJ:90:LEU:HG	2.20	0.40
15:BO:44:GLU:HB3	15:BO:45:HIS:CD2	2.56	0.40
17:BQ:11:VAL:O	17:BQ:12:VAL:HG12	2.20	0.40
17:BQ:51:GLU:N	17:BQ:51:GLU:CD	2.75	0.40
20:BT:79:THR:O	20:BT:82:ILE:N	2.55	0.40
21:BU:24:LYS:HZ3	21:BU:25:ALA:HB2	1.86	0.40
25:CA:1166:G:N2	25:CA:1184:U:H1'	2.35	0.40
25:CA:1261:C:C2'	25:CA:1262:A:O5'	2.70	0.40
25:CA:1373:A:H2'	25:CA:1374:G:O5'	2.20	0.40
25:CA:1432:G:O2'	25:CA:1433:A:H5'	2.22	0.40
25:CA:1584:U:C2'	25:CA:1584:U:O2	2.68	0.40
25:CA:170:U:H2'	25:CA:171:U:H6	1.86	0.40
25:CA:1735:A:C2	25:CA:1736:U:C6	3.09	0.40
25:CA:1748:C:C2	25:CA:1749:A:C8	3.09	0.40
25:CA:1875:G:O2'	25:CA:1876:A:O5'	2.36	0.40
25:CA:528:A:N1	25:CA:2043:C:O5'	2.54	0.40
25:CA:2142:A:C2	25:CA:2150:C:N3	2.89	0.40
25:CA:359:G:C2'	25:CA:360:U:H5'	2.50	0.40
25:CA:666:A:C4	25:CA:667:U:C5	3.09	0.40
25:CA:842:U:O2'	25:CA:843:G:H5'	2.21	0.40
26:CB:86:G:N7	26:CB:88:C:C4	2.89	0.40
27:CC:110:LYS:HE2	27:CC:113:ASP:CG	2.40	0.40
25:CA:2204:G:O5'	27:CC:149:LYS:HE3	2.21	0.40
28:CD:103:ASP:C	28:CD:104:VAL:CG2	2.89	0.40
30:CF:16:MET:HB3	30:CF:16:MET:HE2	1.95	0.40
31:CG:86:LEU:N	31:CG:86:LEU:HD12	2.36	0.40
32:CH:31:VAL:HG12	32:CH:32:PRO:N	2.37	0.40
32:CH:72:ILE:HD12	32:CH:140:ALA:CB	2.51	0.40
33:CI:101:SER:OG	33:CI:102:ARG:N	2.55	0.40
37:CM:109:PRO:O	37:CM:112:LEU:N	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:2:LEU:H	37:CM:2:LEU:HD22	1.86	0.40
37:CM:54:THR:C	37:CM:56:ALA:N	2.75	0.40
37:CM:59:ARG:O	37:CM:60:GLN:HG2	2.21	0.40
41:CQ:78:PHE:CE2	41:CQ:82:LEU:HD11	2.55	0.40
48:CX:38:TRP:HE3	48:CX:45:PHE:CD2	2.40	0.40
25:DA:1011:G:C2	25:DA:1151:A:C2	3.10	0.40
25:DA:1081:U:C5'	25:DA:1082:U:OP2	2.69	0.40
25:DA:1176:U:C4	25:DA:1177:G:O6	2.74	0.40
25:DA:1195:G:N3	25:DA:1226:A:H2	2.19	0.40
25:DA:1373:A:H2'	25:DA:1374:G:O4'	2.22	0.40
25:DA:1465:G:N1	25:DA:1466:U:N3	2.69	0.40
25:DA:1486:U:H2'	25:DA:1487:U:C6	2.56	0.40
25:DA:1629:U:O2	25:DA:2698:U:C5'	2.69	0.40
25:DA:1790:C:H6	25:DA:1790:C:O5'	2.04	0.40
25:DA:1964:G:H4'	25:DA:1965:C:OP2	2.21	0.40
25:DA:2110:G:H5'	25:DA:2118:U:O2	2.20	0.40
25:DA:2195:U:O2	25:DA:2196:C:C6	2.74	0.40
25:DA:2286:G:OP1	52:D1:29:LYS:CE	2.63	0.40
25:DA:2329:U:H2'	25:DA:2330:G:O4'	2.21	0.40
25:DA:2331:G:H2'	25:DA:2336:A:N1	2.36	0.40
25:DA:2382:G:N2	54:D3:41:ARG:NH2	2.70	0.40
25:DA:2765:A:C2'	25:DA:2765:A:N3	2.85	0.40
25:DA:2779:U:O4'	25:DA:2781:A:C5	2.74	0.40
25:DA:2810:A:H2'	25:DA:2811:G:O4'	2.21	0.40
25:DA:2824:C:C4	25:DA:2825:G:C5	3.08	0.40
25:DA:282:A:C4	25:DA:283:G:C8	3.08	0.40
25:DA:2860:A:C8	25:DA:2861:U:C6	3.09	0.40
25:DA:294:A:N6	25:DA:345:A:C4	2.89	0.40
25:DA:428:A:H2'	25:DA:429:A:O4'	2.21	0.40
25:DA:528:A:C2'	25:DA:529:A:O5'	2.69	0.40
25:DA:645:C:O2'	25:DA:646:U:C5'	2.69	0.40
25:DA:648:G:H2'	25:DA:649:G:H8	1.86	0.40
25:DA:812:C:N3	25:DA:813:U:C5	2.89	0.40
25:DA:819:A:C2'	25:DA:820:A:O5'	2.65	0.40
25:DA:860:U:C6	25:DA:2268:A:O4'	2.74	0.40
25:DA:900:A:C4	25:DA:901:C:C6	3.09	0.40
27:DC:160:TYR:CD1	27:DC:160:TYR:C	2.95	0.40
27:DC:199:HIS:O	27:DC:202:ARG:HG2	2.22	0.40
28:DD:49:GLN:HA	28:DD:81:GLU:HA	2.04	0.40
29:DE:171:ASP:OD1	29:DE:172:ALA:N	2.55	0.40
30:DF:37:MET:CG	30:DF:56:LEU:HD11	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:13:ALA:C	33:DI:15:GLY:N	2.75	0.40
34:DJ:99:ARG:C	34:DJ:103:ILE:HD12	2.42	0.40
35:DK:10:VAL:HG12	35:DK:12:ASP:OD1	2.22	0.40
35:DK:34:GLY:O	35:DK:36:GLY:N	2.54	0.40
36:DL:103:ILE:HD13	36:DL:103:ILE:N	2.35	0.40
38:DN:51:LEU:O	38:DN:54:LEU:HB3	2.21	0.40
39:DO:109:ALA:HA	39:DO:112:GLU:HB2	2.04	0.40
41:DQ:85:ALA:O	41:DQ:86:SER:CB	2.69	0.40
45:DU:51:LEU:O	45:DU:52:ASN:C	2.60	0.40
49:DY:9:LYS:HG2	49:DY:11:VAL:H	1.86	0.40
50:DZ:44:ARG:HD2	50:DZ:44:ARG:HA	1.74	0.40
1:AA:1023:U:C2'	1:AA:1024:G:O4'	2.68	0.40
1:AA:1033:G:N2	1:AA:1034:G:O4'	2.54	0.40
1:AA:1000:A:C2	1:AA:1041:G:N2	2.89	0.40
1:AA:1048:G:P	60:AA:1783:HOH:O	2.79	0.40
1:AA:1144:G:N1	1:AA:1145:A:H2	2.19	0.40
1:AA:1315:U:C4	1:AA:1316:G:C6	3.09	0.40
1:AA:295:C:C2	1:AA:296:U:C6	3.09	0.40
1:AA:369:G:H2'	1:AA:370:C:H6	1.86	0.40
1:AA:430:A:OP1	4:AD:8:LEU:HB2	2.21	0.40
1:AA:78:A:N6	1:AA:79:G:C2	2.89	0.40
1:AA:987:G:N3	1:AA:1219:A:C2	2.89	0.40
2:AB:117:GLU:O	2:AB:120:SER:HB3	2.21	0.40
2:AB:142:LYS:O	2:AB:144:GLU:N	2.54	0.40
2:AB:211:LEU:C	2:AB:213:LEU:N	2.75	0.40
3:AC:113:LYS:O	3:AC:117:ASP:OD2	2.39	0.40
4:AD:128:VAL:HG13	4:AD:128:VAL:O	2.22	0.40
5:AE:67:ARG:O	5:AE:68:ARG:O	2.40	0.40
5:AE:96:GLN:HB2	5:AE:123:LEU:HD12	2.04	0.40
7:AG:96:ASN:O	7:AG:100:MET:HG3	2.21	0.40
7:AG:67:ASN:OD1	7:AG:129:ASN:HB3	2.21	0.40
8:AH:101:ALA:O	8:AH:102:VAL:C	2.59	0.40
9:AI:41:GLU:O	9:AI:44:ARG:NH1	2.52	0.40
11:AK:124:LYS:HZ2	21:AU:34:ARG:NH2	2.19	0.40
13:AM:19:THR:HB	13:AM:25:GLY:HA2	2.02	0.40
13:AM:30:LYS:HB3	13:AM:30:LYS:HE3	1.88	0.40
1:AA:720:C:H1'	18:AR:38:ILE:HG21	2.03	0.40
18:AR:71:ASP:O	18:AR:73:HIS:N	2.54	0.40
21:AU:33:ARG:HH21	21:AU:34:ARG:HG3	1.85	0.40
1:BA:1061:G:O5'	1:BA:1061:G:H8	2.05	0.40
1:BA:1061:G:C5	1:BA:1062:U:C5	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1081:A:C2	1:BA:1082:A:C4	3.10	0.40
1:BA:109:A:C6	1:BA:326:G:C6	3.10	0.40
1:BA:1129:C:C2	1:BA:1139:G:C6	3.09	0.40
1:BA:1244:G:N2	1:BA:1294:G:N3	2.70	0.40
1:BA:1415:G:C2	1:BA:1486:G:C4	3.08	0.40
1:BA:64:G:H2'	1:BA:64:G:O5'	2.21	0.40
1:BA:708:C:H2'	1:BA:709:U:H6	1.84	0.40
1:BA:739:C:H2'	1:BA:740:U:O5'	2.21	0.40
1:BA:781:A:N6	1:BA:802:A:H1'	2.35	0.40
2:BB:9:LEU:CD2	2:BB:11:ALA:HB3	2.51	0.40
2:BB:134:LEU:HD23	2:BB:135:MET:SD	2.61	0.40
4:BD:168:THR:HG21	4:BD:183:ARG:NH2	2.36	0.40
5:BE:132:PRO:HA	5:BE:135:VAL:CG1	2.51	0.40
5:BE:73:VAL:O	5:BE:75:LEU:CD1	2.69	0.40
6:BF:55:HIS:ND1	6:BF:55:HIS:N	2.66	0.40
7:BG:125:ASP:HB3	7:BG:130:LYS:CG	2.52	0.40
8:BH:88:LYS:C	8:BH:90:GLU:N	2.74	0.40
10:BJ:22:THR:C	10:BJ:25:ILE:HG22	2.42	0.40
10:BJ:25:ILE:HG21	10:BJ:74:VAL:HG21	2.04	0.40
11:BK:125:LYS:O	11:BK:126:ARG:HG3	2.21	0.40
11:BK:14:GLN:HE21	11:BK:15:VAL:N	2.19	0.40
11:BK:51:PHE:HB2	11:BK:55:ARG:HB2	2.03	0.40
12:BL:60:PHE:CD1	12:BL:60:PHE:N	2.90	0.40
14:BN:15:LEU:HB3	14:BN:55:SER:CA	2.47	0.40
20:BT:27:MET:SD	20:BT:60:GLN:HG3	2.61	0.40
11:BK:109:ILE:CG2	21:BU:16:ARG:CD	2.99	0.40
54:C3:56:LEU:O	54:C3:59:ALA:HB3	2.21	0.40
25:CA:1415:U:C4	25:CA:1587:G:O6	2.74	0.40
25:CA:1701:A:H2'	25:CA:1702:G:H5'	2.02	0.40
25:CA:1827:U:O2'	25:CA:1828:G:H5'	2.21	0.40
25:CA:2095:A:H5'	25:CA:2096:C:OP2	2.21	0.40
25:CA:2392:A:C2	25:CA:2393:U:C2	3.09	0.40
25:CA:2667:C:N3	31:CG:109:SER:OG	2.49	0.40
25:CA:1752:C:H5'	25:CA:2861:U:O3'	2.21	0.40
25:CA:443:A:H2	25:CA:1245:G:N3	2.19	0.40
25:CA:544:C:C5	25:CA:545:U:C6	3.09	0.40
25:CA:664:G:H2'	25:CA:665:U:H5'	2.03	0.40
25:CA:677:A:O2'	25:CA:2071:A:H5'	2.21	0.40
25:CA:710:U:O5'	25:CA:710:U:H6	2.05	0.40
25:CA:771:G:C6	25:CA:772:C:N4	2.89	0.40
25:CA:686:U:H2'	25:CA:788:A:C2	2.56	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CB:73:A:C8	26:CB:104:A:C6	3.09	0.40
26:CB:38:C:C6	26:CB:38:C:C3'	3.04	0.40
27:CC:100:ARG:HG3	27:CC:100:ARG:HH11	1.87	0.40
27:CC:106:PRO:HD2	27:CC:109:LEU:HD22	2.02	0.40
27:CC:35:LYS:HG2	27:CC:36:ASN:N	2.36	0.40
28:CD:99:GLU:CG	28:CD:182:ALA:HB2	2.52	0.40
28:CD:40:LEU:HG	28:CD:40:LEU:H	1.72	0.40
30:CF:121:PHE:CE2	30:CF:127:TYR:HD1	2.39	0.40
30:CF:48:LEU:O	30:CF:51:ASN:CB	2.69	0.40
31:CG:140:ILE:HD12	31:CG:140:ILE:C	2.40	0.40
31:CG:1:SER:C	31:CG:3:VAL:N	2.70	0.40
31:CG:25:ILE:O	31:CG:78:VAL:HG21	2.22	0.40
32:CH:51:ARG:HB2	32:CH:52:ALA:H	1.77	0.40
33:CI:56:VAL:HA	33:CI:71:LYS:CE	2.49	0.40
33:CI:57:VAL:C	33:CI:68:PHE:CB	2.90	0.40
36:CL:58:TYR:O	54:C3:12:ARG:CD	2.70	0.40
39:CO:9:ARG:O	39:CO:10:ARG:C	2.58	0.40
49:CY:18:LEU:O	49:CY:22:LEU:HB3	2.21	0.40
49:CY:23:ARG:CA	49:CY:27:ASN:ND2	2.84	0.40
53:D2:43:THR:O	53:D2:44:VAL:HB	2.21	0.40
25:DA:1030:C:O2	25:DA:1030:C:C2'	2.65	0.40
25:DA:1059:G:C6	25:DA:1080:A:C2	3.08	0.40
25:DA:1084:A:H2'	25:DA:1085:A:C1'	2.51	0.40
25:DA:1087:G:N9	25:DA:1089:A:H1'	2.37	0.40
25:DA:1146:C:O2	25:DA:1146:C:C2'	2.65	0.40
25:DA:10:A:C5	25:DA:11:C:C5	3.10	0.40
25:DA:1364:G:H2'	25:DA:1365:A:H5'	2.02	0.40
25:DA:13:A:H4'	25:DA:14:A:OP1	2.20	0.40
25:DA:151:C:H2'	25:DA:152:A:C8	2.57	0.40
25:DA:1796:U:H4'	27:DC:253:GLY:N	2.37	0.40
25:DA:1870:C:H5''	25:DA:1871:A:C4	2.56	0.40
25:DA:186:G:HO2'	25:DA:187:G:H5'	1.85	0.40
25:DA:2019:A:H2'	25:DA:2020:A:O5'	2.21	0.40
25:DA:2019:A:C2'	25:DA:2020:A:O5'	2.69	0.40
25:DA:2470:G:O2'	25:DA:2471:A:H5'	2.20	0.40
25:DA:2531:A:C5	25:DA:2532:G:C5	3.10	0.40
25:DA:2660:A:C6	25:DA:2661:G:C5	3.09	0.40
25:DA:2751:G:H3'	25:DA:2752:C:C6	2.56	0.40
25:DA:2787:C:O2'	25:DA:2788:C:H5'	2.21	0.40
25:DA:277:G:C2'	25:DA:278:A:OP2	2.69	0.40
25:DA:280:U:C2	25:DA:281:C:C5	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:391:A:C5	25:DA:392:U:C5	3.09	0.40
25:DA:402:A:O5'	25:DA:402:A:H8	2.04	0.40
25:DA:55:G:C2	25:DA:56:A:N7	2.90	0.40
25:DA:600:G:C5	25:DA:601:C:C4	3.09	0.40
27:DC:145:MET:HG3	27:DC:153:LEU:HD21	2.03	0.40
27:DC:7:PRO:HB3	27:DC:13:ARG:HA	2.01	0.40
28:DD:185:ASN:O	28:DD:186:LEU:HD23	2.21	0.40
29:DE:83:VAL:HG12	29:DE:86:ALA:HA	2.03	0.40
30:DF:109:ARG:HH21	30:DF:109:ARG:HG2	1.85	0.40
30:DF:168:LEU:O	30:DF:172:PHE:CE1	2.75	0.40
32:DH:9:VAL:HG11	32:DH:12:LEU:CD1	2.52	0.40
32:DH:63:ALA:CA	32:DH:66:ASN:HB2	2.51	0.40
33:DI:107:GLU:C	33:DI:108:ILE:HG13	2.42	0.40
35:DK:69:VAL:O	35:DK:69:VAL:CG2	2.69	0.40
25:DA:2840:C:H5''	38:DN:53:THR:HG21	2.03	0.40
38:DN:79:LEU:O	38:DN:80:PHE:CB	2.69	0.40
38:DN:49:GLU:OE2	38:DN:95:THR:HG21	2.22	0.40
40:DP:105:LYS:HA	40:DP:108:ARG:HD3	2.03	0.40
40:DP:23:ASP:OD2	40:DP:112:ARG:NH1	2.55	0.40
40:DP:20:ARG:CB	40:DP:21:PRO:HD2	2.47	0.40
42:DR:49:ILE:HB	42:DR:52:PRO:C	2.42	0.40
42:DR:74:ILE:N	42:DR:74:ILE:HD12	2.37	0.40
43:DS:62:ASP:O	43:DS:63:GLY:C	2.59	0.40
25:DA:494:G:OP1	43:DS:8:ARG:HD3	2.21	0.40
46:DV:55:GLU:O	46:DV:59:GLU:HB2	2.21	0.40
49:DY:45:GLN:HG3	49:DY:46:VAL:H	1.85	0.40
1:AA:1016:A:H3'	1:AA:1017:U:O4'	2.21	0.40
1:AA:1025:U:C5'	1:AA:1026:G:O5'	2.69	0.40
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.21	0.40
1:AA:1471:U:C2'	1:AA:1472:U:O5'	2.70	0.40
1:AA:181:A:C2	1:AA:194:C:N3	2.90	0.40
1:AA:476:U:H2'	1:AA:476:U:O2	2.20	0.40
1:AA:614:C:H2'	1:AA:615:G:O5'	2.21	0.40
1:AA:678:U:O2'	1:AA:679:C:H5'	2.21	0.40
1:AA:69:G:H2'	1:AA:69:G:N3	2.35	0.40
1:AA:80:A:H2'	1:AA:80:A:N3	2.36	0.40
1:AA:932:C:N4	7:AG:2:ARG:HH22	2.20	0.40
1:AA:952:U:H2'	1:AA:953:G:H8	1.85	0.40
1:AA:958:A:C6	1:AA:959:A:N1	2.89	0.40
2:AB:87:ASP:HB2	2:AB:220:VAL:HG12	2.03	0.40
3:AC:106:ARG:NH1	3:AC:107:LYS:O	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:155:LYS:HA	4:AD:155:LYS:HD3	1.92	0.40
4:AD:168:THR:CB	4:AD:183:ARG:NH2	2.84	0.40
4:AD:8:LEU:HD13	4:AD:8:LEU:HA	1.86	0.40
6:AF:17:GLN:CA	6:AF:17:GLN:HE21	2.35	0.40
8:AH:39:LEU:C	8:AH:45:ILE:HG12	2.42	0.40
10:AJ:36:VAL:HG23	10:AJ:76:ILE:HG23	2.03	0.40
1:AA:1060:U:H1'	10:AJ:54:SER:HB2	2.02	0.40
11:AK:111:ASP:OD2	11:AK:113:THR:HG23	2.21	0.40
13:AM:44:ILE:HG13	13:AM:47:LEU:CD1	2.46	0.40
13:AM:76:ILE:HG22	13:AM:80:MET:HE3	2.04	0.40
14:AN:2:LYS:C	14:AN:6:LYS:HE2	2.42	0.40
16:AP:3:THR:CG2	16:AP:4:ILE:N	2.85	0.40
16:AP:79:ASN:O	16:AP:80:LYS:HE3	2.21	0.40
22:AV:65:G:N3	22:AV:66:U:C6	2.89	0.40
24:AY:91:ASN:O	24:AY:102:PRO:HD2	2.21	0.40
24:AY:25:ILE:HG23	24:AY:179:LYS:HE2	2.04	0.40
1:BA:1028:C:C5	1:BA:1034:G:N2	2.89	0.40
1:BA:1158:C:C2'	1:BA:1158:C:O2	2.67	0.40
1:BA:1313:U:N3	1:BA:1314:C:C5	2.89	0.40
1:BA:1324:A:C5	1:BA:1325:C:C5	3.09	0.40
1:BA:1417:G:C6	1:BA:1482:G:C6	3.10	0.40
1:BA:230:G:H2'	1:BA:231:U:O4'	2.22	0.40
1:BA:386:C:H2'	1:BA:387:U:C5'	2.52	0.40
1:BA:560:A:C8	1:BA:566:G:C4	3.09	0.40
1:BA:724:G:C2	1:BA:725:G:C8	3.10	0.40
1:BA:766:A:H2'	1:BA:767:A:O4'	2.21	0.40
1:BA:801:U:C2'	1:BA:802:A:O5'	2.69	0.40
2:BB:124:THR:O	2:BB:125:PHE:HB3	2.21	0.40
2:BB:93:HIS:CG	2:BB:94:ARG:HH21	2.40	0.40
3:BC:11:LEU:HD23	3:BC:11:LEU:HA	1.84	0.40
3:BC:46:LEU:O	3:BC:49:ALA:HB3	2.22	0.40
3:BC:7:ASN:C	3:BC:9:ILE:N	2.73	0.40
4:BD:114:ARG:O	4:BD:115:GLN:C	2.59	0.40
5:BE:104:ILE:HD12	5:BE:104:ILE:HA	1.96	0.40
1:BA:644:U:C5'	8:BH:83:ARG:HH12	2.31	0.40
9:BI:128:LYS:CD	9:BI:129:ARG:OXT	2.70	0.40
9:BI:29:ILE:CD1	9:BI:37:TYR:CD2	3.05	0.40
10:BJ:35:GLN:OE1	10:BJ:78:GLU:HB2	2.22	0.40
11:BK:15:VAL:HG13	11:BK:16:SER:N	2.36	0.40
12:BL:113:ARG:HD2	12:BL:118:VAL:HG12	2.04	0.40
12:BL:21:PRO:C	12:BL:23:LEU:N	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:2:THR:C	12:BL:4:ASN:N	2.75	0.40
1:BA:952:U:O4	13:BM:102:LYS:HG2	2.22	0.40
16:BP:32:PHE:O	16:BP:32:PHE:CD1	2.74	0.40
25:CA:771:G:OP2	53:C2:11:LYS:HD3	2.21	0.40
25:CA:1448:G:C2'	25:CA:1449:G:H5'	2.51	0.40
25:CA:1450:G:C2	25:CA:1462:C:C2	3.09	0.40
25:CA:1580:A:H2'	25:CA:1581:G:C5'	2.52	0.40
25:CA:1726:C:C2	25:CA:1727:C:C6	3.08	0.40
25:CA:1958:C:O2'	25:CA:1959:G:H5'	2.21	0.40
25:CA:2111:U:O4	25:CA:2145:C:O2	2.39	0.40
25:CA:2463:C:O5'	25:CA:2463:C:H6	2.05	0.40
25:CA:2649:C:O5'	25:CA:2649:C:H6	2.04	0.40
25:CA:328:U:C2'	25:CA:329:G:OP1	2.69	0.40
25:CA:757:G:N3	25:CA:757:G:H2'	2.35	0.40
25:CA:772:C:C2	25:CA:773:U:C5	3.10	0.40
25:CA:80:G:N3	25:CA:294:A:C2	2.90	0.40
25:CA:819:A:N3	25:CA:1189:A:C2	2.90	0.40
25:CA:869:G:C6	25:CA:870:U:C4	3.10	0.40
25:CA:912:C:C4	25:CA:913:U:O4	2.74	0.40
27:CC:26:GLY:O	27:CC:27:LYS:C	2.60	0.40
28:CD:2:ILE:HD13	28:CD:90:PHE:CZ	2.57	0.40
29:CE:171:ASP:OD1	29:CE:171:ASP:C	2.60	0.40
30:CF:175:PRO:O	30:CF:176:PHE:HB2	2.20	0.40
30:CF:51:ASN:ND2	30:CF:146:ASP:HB3	2.36	0.40
31:CG:8:VAL:HG21	31:CG:72:ASN:HA	2.04	0.40
33:CI:56:VAL:CA	33:CI:71:LYS:HE2	2.50	0.40
37:CM:83:GLY:C	37:CM:84:LYS:HG2	2.39	0.40
39:CO:50:ALA:O	39:CO:51:ALA:HB2	2.21	0.40
43:CS:35:ILE:HB	43:CS:36:LEU:H	1.78	0.40
43:CS:63:GLY:O	43:CS:64:ALA:CB	2.69	0.40
44:CT:69:ARG:CB	44:CT:74:ILE:HG22	2.48	0.40
46:CV:80:HIS:CE1	46:CV:83:LYS:HE2	2.56	0.40
48:CX:44:ARG:CG	48:CX:45:PHE:N	2.84	0.40
50:CZ:16:LEU:HD23	50:CZ:16:LEU:HA	1.90	0.40
25:DA:1142:A:C4	25:DA:1144:A:N7	2.90	0.40
25:DA:1384:A:H1'	25:DA:1405:U:H1'	2.03	0.40
25:DA:1401:G:C5	25:DA:1402:U:C4	3.09	0.40
25:DA:1545:A:C8	25:DA:1546:G:C8	3.09	0.40
25:DA:1587:G:C6	25:DA:1588:G:N7	2.89	0.40
25:DA:1600:C:N4	60:DA:3720:HOH:O	2.54	0.40
25:DA:1821:A:H8	25:DA:1821:A:O5'	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1982:U:O2	25:DA:1982:U:C2'	2.69	0.40
25:DA:2184:A:OP2	25:DA:2184:A:H8	2.04	0.40
25:DA:2207:C:C4	25:DA:2218:G:N1	2.89	0.40
25:DA:2230:G:H8	25:DA:2230:G:O5'	2.05	0.40
25:DA:222:A:C8	25:DA:224:U:C6	3.09	0.40
25:DA:2284:A:H1'	25:DA:2325:G:C2	2.57	0.40
25:DA:2259:U:C4	25:DA:2427:C:N4	2.89	0.40
25:DA:2648:G:C4	25:DA:2649:C:C5	3.09	0.40
25:DA:2683:C:H2'	25:DA:2684:U:C6	2.52	0.40
25:DA:2742:G:N2	25:DA:2763:G:H1'	2.37	0.40
25:DA:541:A:C8	25:DA:541:A:H3'	2.56	0.40
25:DA:734:A:C4	25:DA:735:A:C8	3.10	0.40
25:DA:835:C:O5'	25:DA:835:C:H6	2.04	0.40
25:DA:873:C:N3	25:DA:905:A:C2	2.89	0.40
25:DA:2821:A:OP2	28:DD:115:GLY:CA	2.69	0.40
29:DE:124:PHE:CD1	29:DE:124:PHE:C	2.95	0.40
30:DF:103:ILE:CG2	30:DF:174:PHE:CD2	3.04	0.40
32:DH:41:LYS:HA	32:DH:44:ILE:HG23	2.03	0.40
33:DI:135:MET:HB2	33:DI:137:LEU:HG	2.04	0.40
33:DI:7:TYR:CB	33:DI:58:ILE:H	2.34	0.40
34:DJ:58:ASN:HD22	34:DJ:61:LYS:HD3	1.86	0.40
34:DJ:7:LYS:O	34:DJ:11:VAL:CG2	2.68	0.40
35:DK:8:LEU:CD1	35:DK:8:LEU:N	2.78	0.40
36:DL:111:ILE:HD12	36:DL:111:ILE:H	1.84	0.40
36:DL:77:ILE:HG23	36:DL:81:ASP:OD2	2.22	0.40
37:DM:53:MET:C	37:DM:57:VAL:HG13	2.41	0.40
41:DQ:31:TYR:O	41:DQ:32:ARG:C	2.56	0.40
41:DQ:48:ASP:HA	41:DQ:51:GLN:HB2	2.04	0.40
41:DQ:94:LEU:HD23	41:DQ:94:LEU:HA	1.90	0.40
42:DR:39:LEU:CB	42:DR:49:ILE:HD13	2.52	0.40
45:DU:90:LYS:HD3	45:DU:90:LYS:HA	1.83	0.40
57:DW:43:ALA:CB	57:DW:47:VAL:HG12	2.51	0.40
1:AA:9:G:C2'	1:AA:10:A:H5'	2.51	0.40
1:AA:1296:C:H5'	13:AM:13:HIS:CE1	2.56	0.40
1:AA:1398:A:H8	1:AA:1398:A:H5''	1.86	0.40
1:AA:191:G:H2'	1:AA:192:A:H5'	2.02	0.40
1:AA:217:C:O2'	1:AA:218:U:H5'	2.22	0.40
1:AA:53:A:N1	1:AA:359:G:C6	2.89	0.40
1:AA:408:A:N1	1:AA:409:U:C2	2.90	0.40
1:AA:513:C:O5'	1:AA:513:C:H6	2.05	0.40
1:AA:54:C:O2	1:AA:54:C:C2'	2.67	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:751:U:H1'	15:AO:22:GLY:O	2.21	0.40
1:AA:803:G:H8	1:AA:803:G:O5'	2.04	0.40
1:AA:841:C:O2	1:AA:843:U:C4	2.75	0.40
2:AB:135:MET:HA	2:AB:138:ARG:HG2	2.03	0.40
2:AB:53:LEU:CD1	2:AB:219:THR:HG21	2.49	0.40
2:AB:34:ARG:HE	2:AB:35:ASN:H	1.69	0.40
2:AB:51:GLU:HA	2:AB:54:ALA:HB3	2.04	0.40
2:AB:74:ALA:O	2:AB:75:ALA:HB2	2.21	0.40
2:AB:75:ALA:O	2:AB:78:ALA:N	2.55	0.40
3:AC:21:TRP:CH2	3:AC:31:ASN:CB	3.05	0.40
4:AD:131:ILE:HD11	4:AD:134:TYR:CA	2.52	0.40
4:AD:29:THR:O	4:AD:30:LYS:C	2.58	0.40
4:AD:25:ARG:CD	4:AD:30:LYS:CE	3.00	0.40
4:AD:30:LYS:HB2	4:AD:30:LYS:HE2	1.93	0.40
5:AE:105:ILE:HG13	5:AE:123:LEU:HB3	2.04	0.40
6:AF:16:GLU:OE1	4:BD:187:ARG:NH1	2.55	0.40
8:AH:11:THR:O	8:AH:14:ARG:HB3	2.21	0.40
8:AH:58:LEU:C	8:AH:58:LEU:CD1	2.90	0.40
9:AI:52:GLU:HB3	9:AI:53:LEU:HD12	2.04	0.40
10:AJ:84:VAL:O	10:AJ:84:VAL:HG22	2.22	0.40
12:AL:55:ARG:NH2	12:AL:55:ARG:HG3	2.35	0.40
14:AN:64:CYS:HA	14:AN:79:LEU:HA	2.03	0.40
15:AO:28:VAL:O	15:AO:28:VAL:HG12	2.21	0.40
15:AO:40:GLY:O	15:AO:43:ALA:HB3	2.21	0.40
15:AO:69:LEU:O	15:AO:69:LEU:HD23	2.21	0.40
15:AO:77:TYR:O	15:AO:81:ILE:HG23	2.22	0.40
1:AA:719:C:O2'	18:AR:38:ILE:O	2.29	0.40
18:AR:54:LEU:C	18:AR:54:LEU:HD13	2.42	0.40
19:AS:26:ASP:OD2	19:AS:27:LYS:O	2.40	0.40
19:AS:48:ILE:N	19:AS:48:ILE:HD12	2.36	0.40
1:BA:1037:C:OP2	1:BA:1037:C:H6	2.03	0.40
1:BA:1226:C:P	13:BM:89:ARG:HH22	2.44	0.40
1:BA:1234:C:H2'	1:BA:1235:U:C5'	2.49	0.40
1:BA:1473:G:C2'	1:BA:1474:U:H5'	2.52	0.40
1:BA:235:C:H2'	1:BA:236:A:C8	2.56	0.40
1:BA:401:C:H2'	1:BA:402:G:H8	1.86	0.40
1:BA:474:G:C4	1:BA:475:C:C5	3.09	0.40
1:BA:491:G:H2'	1:BA:492:C:H6	1.86	0.40
1:BA:692:U:H5	11:BK:27:ASN:HD22	1.68	0.40
1:BA:69:G:N3	1:BA:70:U:C5	2.90	0.40
2:BB:14:HIS:HD2	2:BB:208:ALA:HB2	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:166:TRP:O	3:BC:166:TRP:HE3	2.04	0.40
3:BC:61:LYS:CA	3:BC:61:LYS:HE3	2.52	0.40
3:BC:86:LEU:O	3:BC:87:ARG:C	2.60	0.40
5:BE:12:GLU:OE2	5:BE:63:MET:HE3	2.21	0.40
7:BG:24:LYS:HB3	7:BG:100:MET:HE3	2.03	0.40
8:BH:11:THR:HG23	8:BH:14:ARG:HH12	1.87	0.40
8:BH:68:LYS:HE2	8:BH:72:GLU:OE2	2.20	0.40
9:BI:5:TYR:CD1	9:BI:20:ILE:HG22	2.56	0.40
9:BI:50:PRO:HB3	9:BI:83:THR:HG23	2.03	0.40
10:BJ:35:GLN:C	10:BJ:36:VAL:HG23	2.42	0.40
10:BJ:71:LEU:HA	10:BJ:71:LEU:HD13	1.90	0.40
1:BA:707:U:OP1	11:BK:86:LYS:CE	2.70	0.40
11:BK:22:ILE:HG21	11:BK:95:THR:CG2	2.51	0.40
13:BM:106:ARG:HD2	13:BM:112:ARG:CZ	2.52	0.40
13:BM:32:ILE:HD13	13:BM:58:GLU:CB	2.51	0.40
13:BM:47:LEU:HD23	13:BM:48:SER:N	2.36	0.40
13:BM:6:ILE:O	13:BM:7:ASN:C	2.59	0.40
13:BM:79:LEU:O	13:BM:80:MET:O	2.38	0.40
14:BN:43:ASN:O	14:BN:47:LYS:HG3	2.22	0.40
18:BR:47:ARG:HD2	18:BR:47:ARG:N	2.36	0.40
19:BS:9:PHE:O	19:BS:38:THR:OG1	2.39	0.40
20:BT:5:SER:O	20:BT:7:LYS:HG2	2.22	0.40
20:BT:79:THR:HG22	20:BT:80:ALA:N	2.36	0.40
21:BU:7:GLU:C	21:BU:11:PHE:HE2	2.24	0.40
11:BK:109:ILE:HG22	21:BU:16:ARG:NH1	2.37	0.40
25:CA:2056:G:H4'	51:C0:4:GLN:NE2	2.37	0.40
55:C4:30:GLU:HB3	55:C4:33:HIS:CG	2.56	0.40
55:C4:36:ARG:CG	55:C4:37:GLN:N	2.77	0.40
25:CA:1057:A:C5	25:CA:1058:U:C5	3.10	0.40
25:CA:1080:A:C2	25:CA:1081:U:C6	3.10	0.40
25:CA:1087:G:N2	25:CA:1090:A:C8	2.90	0.40
25:CA:109:C:O5'	25:CA:109:C:H6	2.03	0.40
25:CA:1203:U:C4	25:CA:1204:A:C6	3.10	0.40
25:CA:1441:G:C4	25:CA:1442:U:C5	3.10	0.40
25:CA:1463:C:O2'	25:CA:1464:G:H5'	2.22	0.40
25:CA:1723:G:H3'	25:CA:1723:G:H8	1.87	0.40
25:CA:1989:G:C2'	25:CA:1990:C:O5'	2.68	0.40
25:CA:228:C:H4'	25:CA:229:C:C5'	2.51	0.40
25:CA:2307:G:H4'	25:CA:2308:G:O5'	2.21	0.40
25:CA:2655:G:O2'	25:CA:2656:U:P	2.80	0.40
25:CA:2681:C:C4	25:CA:2724:U:C5	3.10	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:329:G:H1	45:CU:16:LYS:HG2	1.86	0.40
25:CA:356:G:C2'	25:CA:357:C:H5'	2.52	0.40
25:CA:545:U:H1'	25:CA:548:G:OP2	2.21	0.40
25:CA:669:G:H2'	25:CA:670:A:N7	2.36	0.40
25:CA:712:G:O6	25:CA:719:C:N3	2.54	0.40
26:CB:20:G:H2'	26:CB:21:G:O5'	2.21	0.40
27:CC:173:LEU:O	27:CC:180:MET:HA	2.22	0.40
28:CD:125:TRP:O	28:CD:126:ASN:HB2	2.21	0.40
28:CD:131:ASP:C	28:CD:133:THR:H	2.25	0.40
28:CD:5:VAL:HG21	28:CD:80:TRP:CD2	2.57	0.40
29:CE:134:LEU:CD2	29:CE:160:ALA:O	2.69	0.40
29:CE:91:ASP:OD1	29:CE:92:HIS:N	2.55	0.40
30:CF:174:PHE:HA	30:CF:175:PRO:HD2	1.74	0.40
30:CF:66:ILE:O	30:CF:66:ILE:CG1	2.69	0.40
31:CG:23:ILE:HG23	31:CG:25:ILE:HD11	2.03	0.40
32:CH:31:VAL:CG1	32:CH:32:PRO:CD	2.99	0.40
36:CL:127:VAL:HG11	36:CL:132:ARG:CA	2.51	0.40
28:CD:115:GLY:O	38:CN:3:HIS:CE1	2.75	0.40
38:CN:46:ARG:O	38:CN:50:PRO:HG2	2.21	0.40
39:CO:67:ASN:O	39:CO:68:LYS:C	2.57	0.40
28:CD:12:THR:CG2	40:CP:8:GLU:HG2	2.52	0.40
44:CT:29:THR:HG22	44:CT:30:ILE:N	2.36	0.40
46:CV:30:ILE:HA	46:CV:91:PHE:O	2.21	0.40
49:CY:18:LEU:HD21	49:CY:22:LEU:CD2	2.45	0.40
25:DA:1178:C:N3	25:DA:1179:G:O6	2.54	0.40
25:DA:1194:A:C2	25:DA:1195:G:C4	3.10	0.40
25:DA:132:G:C2	25:DA:133:U:C2	3.09	0.40
25:DA:1351:C:H2'	25:DA:1352:U:N1	2.36	0.40
25:DA:137:U:H5''	25:DA:140:C:C5	2.57	0.40
25:DA:1441:G:N2	25:DA:1442:U:C2	2.89	0.40
25:DA:1525:A:C8	25:DA:1526:C:C5	3.09	0.40
25:DA:1562:U:N3	25:DA:1563:U:C5	2.89	0.40
25:DA:1860:G:C2'	25:DA:1861:G:H5'	2.52	0.40
25:DA:1854:A:O4'	25:DA:2233:U:H4'	2.21	0.40
25:DA:2304:G:H4'	30:DF:128:SER:C	2.42	0.40
25:DA:2060:A:O4'	25:DA:2502:G:H1'	2.22	0.40
25:DA:2659:G:OP1	31:DG:157:LYS:HD2	2.21	0.40
25:DA:284:U:H5'	25:DA:285:G:OP2	2.22	0.40
25:DA:362:A:C4	25:DA:363:G:C8	3.10	0.40
25:DA:478:A:N1	25:DA:500:G:H4'	2.36	0.40
25:DA:857:G:H2'	25:DA:858:G:O4'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:24:G:C2	56:DB:56:G:C6	3.09	0.40
56:DB:96:G:O2'	56:DB:97:C:H5'	2.21	0.40
27:DC:24:HIS:CE1	27:DC:25:LYS:O	2.75	0.40
29:DE:124:PHE:O	29:DE:125:SER:HB3	2.21	0.40
29:DE:28:VAL:O	29:DE:32:VAL:CG2	2.69	0.40
32:DH:25:TYR:CE1	32:DH:30:LEU:HD11	2.56	0.40
32:DH:41:LYS:HA	32:DH:44:ILE:HG12	2.04	0.40
32:DH:62:LEU:C	32:DH:62:LEU:HD22	2.42	0.40
33:DI:3:LYS:CD	33:DI:4:VAL:HG23	2.51	0.40
34:DJ:3:THR:HG23	34:DJ:4:PHE:H	1.86	0.40
34:DJ:60:ASP:OD1	34:DJ:61:LYS:N	2.54	0.40
36:DL:117:THR:CG2	36:DL:118:THR:H	2.34	0.40
37:DM:74:THR:O	37:DM:75:GLU:HB2	2.20	0.40
38:DN:52:ILE:O	38:DN:54:LEU:N	2.54	0.40
38:DN:66:ALA:O	38:DN:69:ARG:O	2.40	0.40
25:DA:494:G:H21	43:DS:57:ASN:HD21	1.69	0.40
44:DT:44:LYS:O	44:DT:45:ALA:C	2.59	0.40
46:DV:64:VAL:C	46:DV:65:VAL:HG12	2.41	0.40
49:DY:31:GLN:HA	49:DY:34:SER:OG	2.22	0.40
49:DY:35:GLY:C	49:DY:36:GLN:HG2	2.42	0.40
49:DY:33:ALA:C	49:DY:35:GLY:N	2.75	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	216/218 (99%)	109 (50%)	49 (23%)	58 (27%)	0	0
2	BB	216/218 (99%)	112 (52%)	49 (23%)	55 (26%)	0	0
3	AC	204/206 (99%)	125 (61%)	49 (24%)	30 (15%)	0	1
3	BC	204/206 (99%)	126 (62%)	47 (23%)	31 (15%)	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AD	203/205 (99%)	123 (61%)	41 (20%)	39 (19%)	0	0
4	BD	203/205 (99%)	136 (67%)	36 (18%)	31 (15%)	0	1
5	AE	148/150 (99%)	87 (59%)	38 (26%)	23 (16%)	0	1
5	BE	148/150 (99%)	90 (61%)	31 (21%)	27 (18%)	0	0
6	AF	98/100 (98%)	62 (63%)	21 (21%)	15 (15%)	0	1
6	BF	98/100 (98%)	54 (55%)	23 (24%)	21 (21%)	0	0
7	AG	149/151 (99%)	86 (58%)	41 (28%)	22 (15%)	0	1
7	BG	149/151 (99%)	79 (53%)	46 (31%)	24 (16%)	0	1
8	AH	127/129 (98%)	79 (62%)	37 (29%)	11 (9%)	1	4
8	BH	127/129 (98%)	82 (65%)	32 (25%)	13 (10%)	1	3
9	AI	125/127 (98%)	76 (61%)	34 (27%)	15 (12%)	0	2
9	BI	125/127 (98%)	77 (62%)	33 (26%)	15 (12%)	0	2
10	AJ	96/98 (98%)	60 (62%)	14 (15%)	22 (23%)	0	0
10	BJ	96/98 (98%)	64 (67%)	14 (15%)	18 (19%)	0	0
11	AK	115/117 (98%)	84 (73%)	17 (15%)	14 (12%)	0	1
11	BK	115/117 (98%)	81 (70%)	19 (16%)	15 (13%)	0	1
12	AL	121/123 (98%)	85 (70%)	29 (24%)	7 (6%)	2	11
12	BL	121/123 (98%)	91 (75%)	16 (13%)	14 (12%)	0	2
13	AM	112/114 (98%)	78 (70%)	22 (20%)	12 (11%)	0	2
13	BM	112/114 (98%)	65 (58%)	24 (21%)	23 (20%)	0	0
14	AN	92/100 (92%)	47 (51%)	27 (29%)	18 (20%)	0	0
14	BN	92/100 (92%)	39 (42%)	30 (33%)	23 (25%)	0	0
15	AO	86/88 (98%)	57 (66%)	22 (26%)	7 (8%)	1	5
15	BO	86/88 (98%)	52 (60%)	17 (20%)	17 (20%)	0	0
16	AP	80/82 (98%)	48 (60%)	11 (14%)	21 (26%)	0	0
16	BP	80/82 (98%)	47 (59%)	22 (28%)	11 (14%)	0	1
17	AQ	78/80 (98%)	47 (60%)	18 (23%)	13 (17%)	0	1
17	BQ	78/80 (98%)	48 (62%)	18 (23%)	12 (15%)	0	1
18	AR	53/55 (96%)	34 (64%)	13 (24%)	6 (11%)	0	2
18	BR	53/55 (96%)	31 (58%)	19 (36%)	3 (6%)	2	12
19	AS	77/79 (98%)	36 (47%)	29 (38%)	12 (16%)	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	BS	77/79 (98%)	56 (73%)	14 (18%)	7 (9%)	1	4
20	AT	83/85 (98%)	37 (45%)	31 (37%)	15 (18%)	0	0
20	BT	83/85 (98%)	46 (55%)	23 (28%)	14 (17%)	0	1
21	AU	49/51 (96%)	20 (41%)	15 (31%)	14 (29%)	0	0
21	BU	49/51 (96%)	22 (45%)	10 (20%)	17 (35%)	0	0
24	AY	181/183 (99%)	135 (75%)	35 (19%)	11 (6%)	2	10
27	CC	269/271 (99%)	216 (80%)	32 (12%)	21 (8%)	1	5
27	DC	269/271 (99%)	198 (74%)	43 (16%)	28 (10%)	0	3
28	CD	207/209 (99%)	166 (80%)	30 (14%)	11 (5%)	2	13
28	DD	207/209 (99%)	162 (78%)	35 (17%)	10 (5%)	2	16
29	CE	199/201 (99%)	158 (79%)	32 (16%)	9 (4%)	3	17
29	DE	199/201 (99%)	142 (71%)	38 (19%)	19 (10%)	1	3
30	CF	175/177 (99%)	118 (67%)	38 (22%)	19 (11%)	0	2
30	DF	175/177 (99%)	113 (65%)	34 (19%)	28 (16%)	0	1
31	CG	174/176 (99%)	129 (74%)	30 (17%)	15 (9%)	1	4
31	DG	174/176 (99%)	106 (61%)	43 (25%)	25 (14%)	0	1
32	CH	147/149 (99%)	95 (65%)	29 (20%)	23 (16%)	0	1
32	DH	147/149 (99%)	95 (65%)	27 (18%)	25 (17%)	0	1
33	CI	139/141 (99%)	65 (47%)	47 (34%)	27 (19%)	0	0
33	DI	139/141 (99%)	71 (51%)	46 (33%)	22 (16%)	0	1
34	CJ	140/142 (99%)	123 (88%)	11 (8%)	6 (4%)	3	18
34	DJ	140/142 (99%)	112 (80%)	24 (17%)	4 (3%)	5	28
35	CK	120/122 (98%)	88 (73%)	24 (20%)	8 (7%)	1	7
35	DK	120/122 (98%)	87 (72%)	21 (18%)	12 (10%)	1	3
36	CL	141/143 (99%)	99 (70%)	21 (15%)	21 (15%)	0	1
36	DL	141/143 (99%)	88 (62%)	36 (26%)	17 (12%)	0	2
37	CM	134/136 (98%)	110 (82%)	15 (11%)	9 (7%)	1	7
37	DM	134/136 (98%)	97 (72%)	23 (17%)	14 (10%)	0	3
38	CN	118/120 (98%)	91 (77%)	21 (18%)	6 (5%)	2	14
38	DN	118/120 (98%)	82 (70%)	28 (24%)	8 (7%)	1	7
39	CO	114/116 (98%)	83 (73%)	17 (15%)	14 (12%)	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	DO	114/116 (98%)	77 (68%)	25 (22%)	12 (10%)	0	2
40	CP	112/114 (98%)	96 (86%)	12 (11%)	4 (4%)	4	22
40	DP	112/114 (98%)	86 (77%)	19 (17%)	7 (6%)	1	9
41	CQ	115/117 (98%)	100 (87%)	13 (11%)	2 (2%)	11	44
41	DQ	115/117 (98%)	95 (83%)	18 (16%)	2 (2%)	11	44
42	CR	101/103 (98%)	84 (83%)	9 (9%)	8 (8%)	1	5
42	DR	101/103 (98%)	78 (77%)	14 (14%)	9 (9%)	1	4
43	CS	108/110 (98%)	90 (83%)	12 (11%)	6 (6%)	2	12
43	DS	108/110 (98%)	78 (72%)	19 (18%)	11 (10%)	1	3
44	CT	91/93 (98%)	67 (74%)	13 (14%)	11 (12%)	0	2
44	DT	91/93 (98%)	59 (65%)	20 (22%)	12 (13%)	0	1
45	CU	100/102 (98%)	74 (74%)	14 (14%)	12 (12%)	0	2
45	DU	100/102 (98%)	73 (73%)	14 (14%)	13 (13%)	0	1
46	CV	92/94 (98%)	78 (85%)	12 (13%)	2 (2%)	8	36
46	DV	92/94 (98%)	71 (77%)	15 (16%)	6 (6%)	1	8
47	CW	74/76 (97%)	68 (92%)	4 (5%)	2 (3%)	6	30
48	CX	75/77 (97%)	64 (85%)	9 (12%)	2 (3%)	6	30
48	DX	75/77 (97%)	54 (72%)	15 (20%)	6 (8%)	1	5
49	CY	61/63 (97%)	34 (56%)	13 (21%)	14 (23%)	0	0
49	DY	61/63 (97%)	28 (46%)	16 (26%)	17 (28%)	0	0
50	CZ	56/58 (97%)	50 (89%)	6 (11%)	0	100	100
50	DZ	56/58 (97%)	50 (89%)	4 (7%)	2 (4%)	4	22
51	C0	54/56 (96%)	44 (82%)	8 (15%)	2 (4%)	4	22
51	D0	54/56 (96%)	39 (72%)	10 (18%)	5 (9%)	1	4
52	C1	48/50 (96%)	32 (67%)	12 (25%)	4 (8%)	1	4
52	D1	48/50 (96%)	36 (75%)	10 (21%)	2 (4%)	3	18
53	C2	44/46 (96%)	37 (84%)	6 (14%)	1 (2%)	7	35
53	D2	44/46 (96%)	31 (70%)	8 (18%)	5 (11%)	0	2
54	C3	62/64 (97%)	56 (90%)	6 (10%)	0	100	100
54	D3	62/64 (97%)	49 (79%)	11 (18%)	2 (3%)	5	26
55	C4	36/38 (95%)	31 (86%)	4 (11%)	1 (3%)	6	29

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
55	D4	36/38 (95%)	31 (86%)	4 (11%)	1 (3%)	6	29
57	DW	73/75 (97%)	57 (78%)	12 (16%)	4 (6%)	2	12
All	All	11416/11626 (98%)	7804 (68%)	2248 (20%)	1364 (12%)	0	2

All (1364) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	PHE
2	AB	21	TYR
2	AB	33	ALA
2	AB	63	LYS
2	AB	67	LEU
2	AB	72	LYS
2	AB	74	ALA
2	AB	82	ALA
2	AB	86	CYS
2	AB	91	VAL
2	AB	94	ARG
2	AB	106	VAL
2	AB	114	LYS
2	AB	115	ASP
2	AB	116	LEU
2	AB	119	GLN
2	AB	128	LEU
2	AB	131	LYS
2	AB	132	GLU
2	AB	133	ALA
2	AB	144	GLU
2	AB	147	LEU
2	AB	151	LYS
2	AB	156	LEU
2	AB	160	LEU
2	AB	163	ILE
2	AB	182	VAL
2	AB	200	PRO
2	AB	206	ILE
2	AB	208	ALA
2	AB	211	LEU
2	AB	219	THR
2	AB	221	ARG
3	AC	11	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	14	VAL
3	AC	16	PRO
3	AC	17	TRP
3	AC	25	THR
3	AC	53	ARG
3	AC	78	LYS
3	AC	79	LYS
3	AC	119	ILE
3	AC	120	THR
3	AC	138	GLN
3	AC	145	ALA
3	AC	167	TYR
4	AD	22	SER
4	AD	25	ARG
4	AD	28	ASP
4	AD	32	LYS
4	AD	34	GLU
4	AD	43	ARG
4	AD	48	SER
4	AD	150	LYS
4	AD	152	SER
4	AD	155	LYS
4	AD	159	GLU
4	AD	167	PRO
4	AD	190	LEU
4	AD	191	SER
4	AD	202	LEU
5	AE	11	GLN
5	AE	61	LYS
5	AE	68	ARG
5	AE	81	GLN
5	AE	99	SER
5	AE	104	ILE
5	AE	112	ALA
5	AE	121	ASN
5	AE	137	ARG
6	AF	6	ILE
6	AF	18	VAL
6	AF	36	ILE
6	AF	63	ASN
6	AF	82	ASP
6	AF	91	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	92	THR
7	AG	14	ASP
7	AG	49	LEU
7	AG	58	LEU
7	AG	93	VAL
7	AG	101	ARG
7	AG	112	ASP
7	AG	129	ASN
8	AH	2	MET
8	AH	13	ILE
8	AH	14	ARG
8	AH	49	LYS
8	AH	53	ASP
8	AH	56	PRO
8	AH	102	VAL
9	AI	40	ARG
9	AI	71	ILE
9	AI	87	MET
9	AI	90	ASP
9	AI	119	LYS
10	AJ	17	LEU
10	AJ	32	THR
10	AJ	33	GLY
10	AJ	34	ALA
10	AJ	43	PRO
10	AJ	57	VAL
10	AJ	61	ALA
10	AJ	101	SER
11	AK	14	GLN
11	AK	51	PHE
11	AK	71	ASP
11	AK	72	ALA
11	AK	74	LYS
11	AK	124	LYS
11	AK	125	LYS
12	AL	23	LEU
12	AL	24	GLU
12	AL	25	ALA
12	AL	43	LYS
13	AM	3	ILE
13	AM	10	ASP
13	AM	11	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	AM	26	LYS
13	AM	40	GLU
13	AM	113	LYS
14	AN	20	PHE
14	AN	28	ALA
14	AN	30	ILE
14	AN	32	ASP
14	AN	47	LYS
14	AN	49	GLN
14	AN	52	PRO
14	AN	62	ASN
14	AN	92	GLU
15	AO	72	LYS
16	AP	11	ALA
16	AP	16	PHE
16	AP	43	ALA
16	AP	46	LYS
16	AP	51	ARG
16	AP	77	GLU
16	AP	79	ASN
17	AQ	12	VAL
17	AQ	50	ASN
19	AS	28	LYS
19	AS	64	GLU
19	AS	75	PRO
20	AT	4	LYS
20	AT	5	SER
20	AT	43	LYS
20	AT	72	ALA
20	AT	76	ALA
21	AU	10	PRO
21	AU	23	GLU
21	AU	35	GLU
21	AU	37	TYR
21	AU	39	LYS
24	AY	34	SER
24	AY	112	LYS
24	AY	113	ASP
24	AY	147	LYS
2	BB	9	LEU
2	BB	15	PHE
2	BB	21	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BB	35	ASN
2	BB	56	LEU
2	BB	58	LYS
2	BB	62	ARG
2	BB	73	ARG
2	BB	99	MET
2	BB	115	ASP
2	BB	120	SER
2	BB	125	PHE
2	BB	133	ALA
2	BB	139	GLU
2	BB	140	LEU
2	BB	150	ILE
2	BB	221	ARG
3	BC	11	LEU
3	BC	16	PRO
3	BC	53	ARG
3	BC	63	ILE
3	BC	81	GLU
3	BC	100	ILE
3	BC	102	ILE
3	BC	140	ALA
3	BC	145	ALA
3	BC	155	ARG
3	BC	171	ARG
3	BC	190	THR
4	BD	25	ARG
4	BD	26	ALA
4	BD	32	LYS
4	BD	34	GLU
4	BD	35	GLN
4	BD	36	ALA
4	BD	110	ARG
4	BD	163	GLN
4	BD	166	LYS
4	BD	173	ASP
4	BD	191	SER
5	BE	11	GLN
5	BE	50	GLY
5	BE	67	ARG
5	BE	97	PRO
5	BE	100	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	BE	101	GLY
5	BE	102	THR
5	BE	122	VAL
5	BE	137	ARG
5	BE	154	ALA
6	BF	15	SER
6	BF	27	ALA
6	BF	33	GLU
6	BF	54	LEU
6	BF	55	HIS
6	BF	86	ARG
6	BF	91	ARG
6	BF	92	THR
6	BF	93	LYS
6	BF	98	GLU
7	BG	8	GLN
7	BG	56	SER
7	BG	69	ARG
7	BG	126	ALA
7	BG	129	ASN
8	BH	30	LYS
8	BH	49	LYS
8	BH	66	GLN
8	BH	77	VAL
8	BH	88	LYS
9	BI	38	PHE
9	BI	40	ARG
9	BI	42	THR
9	BI	44	ARG
9	BI	54	VAL
9	BI	119	LYS
9	BI	128	LYS
10	BJ	7	ARG
10	BJ	42	LEU
10	BJ	57	VAL
10	BJ	59	LYS
10	BJ	86	ALA
10	BJ	92	LEU
10	BJ	93	ALA
11	BK	51	PHE
11	BK	90	PRO
11	BK	124	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	BK	126	ARG
12	BL	14	LYS
12	BL	43	LYS
12	BL	75	GLU
12	BL	116	TYR
13	BM	10	ASP
13	BM	26	LYS
13	BM	31	ALA
13	BM	65	GLU
13	BM	80	MET
13	BM	81	ASP
13	BM	113	LYS
14	BN	10	VAL
14	BN	20	PHE
14	BN	22	LYS
14	BN	28	ALA
14	BN	32	ASP
14	BN	52	PRO
14	BN	59	ARG
14	BN	62	ASN
15	BO	58	MET
15	BO	59	VAL
15	BO	74	VAL
15	BO	86	LEU
16	BP	43	ALA
16	BP	44	SER
16	BP	80	LYS
17	BQ	4	ILE
17	BQ	9	GLY
17	BQ	11	VAL
17	BQ	12	VAL
17	BQ	50	ASN
17	BQ	51	GLU
17	BQ	52	CYS
18	BR	46	THR
20	BT	3	ILE
20	BT	5	SER
20	BT	40	ALA
21	BU	8	ASN
21	BU	11	PHE
21	BU	16	ARG
21	BU	23	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	BU	35	GLU
21	BU	36	PHE
21	BU	39	LYS
21	BU	45	LYS
27	CC	35	LYS
27	CC	36	ASN
27	CC	121	ALA
27	CC	122	ALA
27	CC	167	ASP
27	CC	196	ASN
27	CC	235	GLU
28	CD	41	ALA
28	CD	104	VAL
28	CD	152	PRO
30	CF	175	PRO
31	CG	81	GLY
31	CG	117	PRO
31	CG	118	ALA
32	CH	2	GLN
32	CH	10	ALA
32	CH	11	ASN
32	CH	12	LEU
32	CH	14	SER
32	CH	31	VAL
32	CH	32	PRO
32	CH	33	GLN
32	CH	56	ALA
33	CI	5	GLN
33	CI	6	ALA
33	CI	18	ASN
33	CI	30	GLN
33	CI	57	VAL
33	CI	64	ARG
33	CI	65	SER
33	CI	74	PRO
33	CI	104	GLN
33	CI	105	LEU
33	CI	115	ASP
33	CI	116	MET
33	CI	133	ARG
34	CJ	81	ILE
35	CK	35	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	CK	75	SER
35	CK	91	SER
35	CK	110	GLU
36	CL	15	ALA
36	CL	29	LYS
36	CL	68	SER
36	CL	69	ARG
36	CL	86	GLU
36	CL	88	GLY
36	CL	94	THR
36	CL	111	ILE
36	CL	115	GLU
37	CM	44	ARG
37	CM	55	ARG
37	CM	69	PRO
37	CM	78	LEU
38	CN	11	ASN
39	CO	49	VAL
40	CP	15	ASP
40	CP	93	LYS
40	CP	104	GLY
41	CQ	24	TYR
41	CQ	86	SER
42	CR	40	MET
42	CR	51	VAL
42	CR	55	ASP
42	CR	65	ALA
44	CT	72	GLN
44	CT	89	GLU
45	CU	6	ARG
45	CU	7	ASP
45	CU	16	LYS
45	CU	97	SER
45	CU	98	ASN
45	CU	99	SER
49	CY	17	GLU
49	CY	22	LEU
49	CY	24	GLU
49	CY	33	ALA
52	C1	16	THR
52	C1	51	ALA
53	C2	44	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DC	12	ARG
27	DC	57	HIS
27	DC	70	LYS
27	DC	107	LYS
27	DC	121	ALA
27	DC	237	ARG
27	DC	238	ASN
27	DC	254	LYS
28	DD	98	VAL
28	DD	105	LYS
28	DD	152	PRO
29	DE	6	LYS
29	DE	7	ASP
29	DE	8	ALA
29	DE	11	ALA
29	DE	22	ASP
29	DE	72	SER
29	DE	131	THR
29	DE	144	GLU
30	DF	2	LYS
30	DF	28	PRO
30	DF	100	GLU
30	DF	102	LEU
30	DF	122	ASP
30	DF	149	ARG
30	DF	175	PRO
31	DG	6	ALA
31	DG	27	GLY
31	DG	46	ASP
31	DG	110	HIS
31	DG	118	ALA
31	DG	144	ALA
31	DG	173	ALA
31	DG	174	LYS
32	DH	3	VAL
32	DH	8	LYS
32	DH	9	VAL
32	DH	10	ALA
32	DH	31	VAL
32	DH	32	PRO
32	DH	33	GLN
32	DH	41	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
32	DH	115	VAL
32	DH	119	ASN
33	DI	6	ALA
33	DI	18	ASN
33	DI	64	ARG
33	DI	89	SER
33	DI	92	PRO
33	DI	101	SER
33	DI	114	ALA
35	DK	109	SER
35	DK	119	ALA
36	DL	9	ALA
36	DL	29	LYS
36	DL	80	SER
36	DL	103	ILE
36	DL	104	GLN
36	DL	111	ILE
36	DL	133	ALA
37	DM	3	GLN
37	DM	43	ALA
37	DM	53	MET
37	DM	69	PRO
38	DN	2	ARG
38	DN	59	SER
38	DN	88	ALA
38	DN	119	SER
39	DO	99	TYR
40	DP	93	LYS
42	DR	7	SER
42	DR	24	LYS
43	DS	64	ALA
43	DS	109	ASP
44	DT	10	VAL
44	DT	17	SER
44	DT	18	GLU
44	DT	37	ASP
44	DT	48	GLN
44	DT	88	LYS
45	DU	6	ARG
45	DU	8	ASP
45	DU	52	ASN
45	DU	54	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	DU	99	SER
46	DV	59	GLU
49	DY	17	GLU
49	DY	21	LEU
49	DY	24	GLU
49	DY	37	LEU
49	DY	57	LEU
49	DY	61	ALA
50	DZ	3	THR
52	D1	4	ILE
52	D1	51	ALA
53	D2	32	ALA
2	AB	13	VAL
2	AB	50	ASN
2	AB	51	GLU
2	AB	56	LEU
2	AB	75	ALA
2	AB	96	LEU
2	AB	122	ASP
2	AB	123	GLY
2	AB	127	LYS
2	AB	154	GLY
2	AB	176	ASN
2	AB	207	ARG
2	AB	209	VAL
2	AB	210	THR
3	AC	61	LYS
3	AC	80	GLY
3	AC	93	ILE
3	AC	106	ARG
3	AC	126	ARG
3	AC	140	ALA
4	AD	6	PRO
4	AD	9	LYS
4	AD	23	GLY
4	AD	31	CYS
4	AD	101	VAL
4	AD	124	VAL
4	AD	165	GLU
4	AD	174	ALA
5	AE	75	LEU
5	AE	77	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	87	VAL
5	AE	98	ALA
5	AE	119	VAL
5	AE	133	ILE
5	AE	146	MET
5	AE	156	ARG
6	AF	8	PHE
6	AF	51	ILE
7	AG	74	VAL
7	AG	86	VAL
7	AG	99	ALA
7	AG	102	TRP
7	AG	124	SER
7	AG	131	GLY
8	AH	24	VAL
8	AH	47	ASP
9	AI	31	GLN
9	AI	106	ASP
10	AJ	28	THR
10	AJ	35	GLN
10	AJ	41	PRO
10	AJ	59	LYS
10	AJ	74	VAL
10	AJ	93	ALA
11	AK	16	SER
11	AK	77	GLY
11	AK	118	ASN
12	AL	88	ASP
13	AM	66	GLY
14	AN	16	ALA
14	AN	27	LYS
14	AN	75	ARG
16	AP	10	GLY
16	AP	15	PRO
16	AP	36	VAL
16	AP	53	ASP
16	AP	76	LYS
16	AP	78	VAL
16	AP	80	LYS
17	AQ	8	GLN
17	AQ	11	VAL
17	AQ	48	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AQ	49	ASN
17	AQ	68	LYS
17	AQ	69	THR
18	AR	24	ASP
19	AS	8	PRO
19	AS	13	HIS
19	AS	29	PRO
20	AT	57	VAL
20	AT	73	ARG
21	AU	26	GLY
24	AY	87	ASP
24	AY	141	LYS
24	AY	153	ASP
2	BB	18	GLN
2	BB	22	TRP
2	BB	32	GLY
2	BB	33	ALA
2	BB	63	LYS
2	BB	72	LYS
2	BB	85	SER
2	BB	123	GLY
2	BB	138	ARG
2	BB	154	GLY
2	BB	170	ILE
2	BB	206	ILE
2	BB	208	ALA
2	BB	219	THR
2	BB	224	ARG
3	BC	12	GLY
3	BC	13	ILE
3	BC	76	ILE
3	BC	79	LYS
3	BC	88	LYS
3	BC	115	VAL
4	BD	31	CYS
4	BD	33	ILE
4	BD	46	ARG
4	BD	78	ALA
4	BD	161	ALA
4	BD	175	GLY
5	BE	99	SER
5	BE	110	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	BE	125	LYS
5	BE	129	SER
5	BE	153	ALA
5	BE	157	GLY
6	BF	14	GLN
6	BF	52	ASN
6	BF	75	GLU
7	BG	16	LYS
7	BG	28	ILE
7	BG	79	VAL
7	BG	139	ASP
8	BH	21	LYS
8	BH	114	ALA
9	BI	9	GLY
9	BI	90	ASP
9	BI	100	ALA
9	BI	102	PHE
10	BJ	17	LEU
10	BJ	35	GLN
10	BJ	36	VAL
10	BJ	100	ILE
11	BK	14	GLN
11	BK	16	SER
11	BK	91	GLY
11	BK	103	GLY
11	BK	105	ARG
12	BL	3	VAL
12	BL	16	ALA
12	BL	77	SER
12	BL	88	ASP
12	BL	117	GLY
13	BM	4	ALA
13	BM	5	GLY
13	BM	11	HIS
13	BM	19	THR
13	BM	40	GLU
13	BM	91	ARG
13	BM	104	ASN
13	BM	110	GLY
14	BN	3	GLN
14	BN	17	ASP
14	BN	27	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	BN	30	ILE
14	BN	33	VAL
14	BN	42	TRP
14	BN	76	LYS
14	BN	92	GLU
14	BN	100	SER
15	BO	2	LEU
15	BO	17	ASP
15	BO	26	VAL
15	BO	27	GLN
15	BO	35	ILE
15	BO	85	GLY
16	BP	31	ARG
16	BP	53	ASP
16	BP	75	ILE
17	BQ	17	GLU
19	BS	4	LEU
19	BS	5	LYS
19	BS	37	SER
19	BS	63	ASP
21	BU	10	PRO
21	BU	12	ASP
21	BU	24	LYS
27	CC	11	GLY
27	CC	12	ARG
27	CC	70	LYS
27	CC	151	GLY
27	CC	177	SER
28	CD	86	GLU
28	CD	88	GLU
28	CD	206	ALA
29	CE	45	ALA
29	CE	151	GLY
29	CE	161	ALA
30	CF	20	ASN
30	CF	40	GLY
30	CF	41	GLU
30	CF	52	ALA
30	CF	69	ALA
30	CF	151	LEU
30	CF	159	ALA
31	CG	38	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	CG	60	GLY
31	CG	151	ARG
32	CH	3	VAL
32	CH	28	ASN
32	CH	34	GLY
32	CH	35	LYS
32	CH	41	LYS
32	CH	118	PRO
32	CH	119	ASN
32	CH	121	VAL
33	CI	21	PRO
33	CI	23	VAL
33	CI	44	LYS
33	CI	71	LYS
33	CI	97	VAL
35	CK	109	SER
36	CL	24	GLY
36	CL	27	LEU
36	CL	30	THR
36	CL	31	GLY
36	CL	81	ASP
36	CL	102	GLY
36	CL	114	GLY
37	CM	54	THR
38	CN	2	ARG
38	CN	10	LEU
39	CO	3	LYS
39	CO	57	ALA
39	CO	77	ALA
39	CO	87	ILE
42	CR	49	ILE
42	CR	50	GLY
42	CR	53	PHE
44	CT	38	ALA
45	CU	8	ASP
45	CU	51	LEU
45	CU	101	THR
46	CV	51	GLN
48	CX	41	SER
49	CY	14	LEU
49	CY	32	ALA
49	CY	37	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	CY	62	GLY
51	C0	54	ILE
27	DC	35	LYS
27	DC	151	GLY
27	DC	188	ARG
27	DC	239	PHE
27	DC	253	GLY
28	DD	104	VAL
29	DE	122	GLU
29	DE	127	GLU
29	DE	132	LYS
29	DE	163	ASN
29	DE	194	LYS
30	DF	20	ASN
30	DF	29	ARG
30	DF	53	ALA
30	DF	96	TRP
30	DF	104	THR
30	DF	115	GLY
30	DF	160	LYS
31	DG	5	LYS
31	DG	60	GLY
31	DG	81	GLY
31	DG	95	ALA
31	DG	151	ARG
32	DH	12	LEU
32	DH	22	LYS
32	DH	34	GLY
32	DH	35	LYS
32	DH	87	GLU
32	DH	118	PRO
32	DH	121	VAL
33	DI	8	VAL
33	DI	71	LYS
33	DI	83	ALA
33	DI	87	SER
33	DI	105	LEU
34	DJ	81	ILE
34	DJ	118	MET
35	DK	35	VAL
35	DK	101	GLY
35	DK	105	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	DL	5	THR
36	DL	54	GLN
36	DL	102	GLY
36	DL	114	GLY
36	DL	115	GLU
37	DM	23	GLY
37	DM	111	GLU
39	DO	34	HIS
39	DO	37	ALA
39	DO	57	ALA
39	DO	63	LYS
39	DO	76	LYS
39	DO	103	VAL
39	DO	106	LEU
40	DP	19	PHE
40	DP	104	GLY
42	DR	102	SER
43	DS	33	LEU
43	DS	59	GLU
43	DS	63	GLY
43	DS	80	PRO
44	DT	9	LYS
44	DT	22	THR
44	DT	52	GLU
45	DU	20	LYS
45	DU	56	GLY
45	DU	63	ALA
46	DV	9	ARG
46	DV	65	VAL
46	DV	93	ARG
57	DW	23	GLY
48	DX	2	ARG
48	DX	56	ARG
49	DY	2	LYS
49	DY	9	LYS
49	DY	25	GLN
49	DY	33	ALA
49	DY	46	VAL
51	D0	17	SER
51	D0	31	LYS
53	D2	17	GLY
55	D4	37	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AB	25	LYS
2	AB	40	ILE
2	AB	125	PHE
3	AC	65	VAL
3	AC	87	ARG
3	AC	135	ARG
3	AC	139	ASN
4	AD	160	LEU
4	AD	166	LYS
4	AD	168	THR
4	AD	169	TRP
4	AD	192	ALA
5	AE	60	GLN
5	AE	67	ARG
5	AE	142	GLY
5	AE	150	GLU
6	AF	56	LYS
6	AF	68	GLN
6	AF	69	GLU
7	AG	50	ALA
7	AG	100	MET
8	AH	96	ALA
9	AI	8	THR
9	AI	52	GLU
9	AI	55	ASP
10	AJ	39	PRO
10	AJ	58	ASN
10	AJ	95	GLY
13	AM	56	ARG
13	AM	104	ASN
14	AN	42	TRP
14	AN	76	LYS
15	AO	57	ARG
16	AP	49	GLY
16	AP	65	ALA
17	AQ	16	MET
17	AQ	17	GLU
17	AQ	39	ARG
18	AR	48	ALA
19	AS	23	GLU
20	AT	3	ILE
20	AT	15	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AU	36	PHE
21	AU	47	ALA
2	BB	17	HIS
2	BB	50	ASN
2	BB	74	ALA
2	BB	86	CYS
2	BB	94	ARG
2	BB	101	THR
2	BB	169	HIS
2	BB	192	PRO
2	BB	204	ASP
2	BB	217	ALA
3	BC	116	ALA
3	BC	138	GLN
4	BD	84	ASN
4	BD	88	ASN
4	BD	104	MET
4	BD	172	VAL
5	BE	44	ARG
5	BE	69	ASN
5	BE	121	ASN
5	BE	144	GLU
6	BF	26	THR
6	BF	53	LYS
6	BF	69	GLU
7	BG	6	ILE
7	BG	9	ARG
7	BG	15	PRO
7	BG	38	ALA
7	BG	58	LEU
7	BG	81	GLY
7	BG	83	THR
8	BH	34	ALA
8	BH	70	VAL
8	BH	112	ASP
9	BI	120	ALA
10	BJ	58	ASN
10	BJ	75	ASP
11	BK	71	ASP
11	BK	97	ARG
11	BK	98	ALA
12	BL	33	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	BL	122	LYS
13	BM	51	GLN
13	BM	90	HIS
13	BM	109	LYS
14	BN	8	ARG
14	BN	21	ALA
14	BN	64	CYS
15	BO	25	GLU
15	BO	65	LEU
15	BO	70	LYS
15	BO	72	LYS
16	BP	11	ALA
17	BQ	61	ARG
20	BT	33	LYS
20	BT	35	TYR
20	BT	68	LYS
20	BT	70	LYS
20	BT	74	HIS
21	BU	20	ARG
21	BU	34	ARG
27	CC	65	ASP
27	CC	74	PRO
27	CC	157	ALA
28	CD	40	LEU
29	CE	8	ALA
29	CE	142	ALA
29	CE	173	THR
30	CF	9	ASP
30	CF	24	VAL
30	CF	44	ALA
30	CF	109	ARG
30	CF	116	LEU
31	CG	28	LYS
31	CG	77	GLY
31	CG	150	TYR
32	CH	26	ALA
32	CH	107	GLY
33	CI	36	GLU
33	CI	41	PHE
33	CI	82	ALA
33	CI	100	ILE
33	CI	112	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	CJ	32	LEU
35	CK	93	GLN
35	CK	119	ALA
36	CL	137	ALA
37	CM	6	ARG
37	CM	43	ALA
37	CM	113	ALA
38	CN	80	PHE
39	CO	60	GLU
39	CO	88	LYS
39	CO	89	ASP
39	CO	95	SER
40	CP	65	ASN
43	CS	12	SER
43	CS	46	LEU
43	CS	64	ALA
44	CT	20	ALA
44	CT	88	LYS
46	CV	67	GLY
49	CY	20	ASN
49	CY	57	LEU
52	C1	32	LYS
27	DC	18	VAL
27	DC	189	ALA
27	DC	204	LEU
27	DC	224	MET
28	DD	36	GLN
28	DD	43	ASP
28	DD	45	TYR
28	DD	159	LYS
28	DD	174	SER
29	DE	61	ARG
29	DE	83	VAL
30	DF	42	ALA
30	DF	51	ASN
30	DF	52	ALA
30	DF	95	MET
30	DF	97	GLU
30	DF	99	PHE
30	DF	101	ARG
31	DG	79	THR
31	DG	145	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	DI	36	GLU
33	DI	38	CYS
35	DK	88	ASN
35	DK	108	ARG
36	DL	42	SER
36	DL	118	THR
38	DN	3	HIS
38	DN	53	THR
39	DO	68	LYS
39	DO	79	ALA
40	DP	33	GLU
42	DR	6	GLN
42	DR	28	ALA
42	DR	70	GLU
43	DS	58	ALA
44	DT	5	GLU
45	DU	36	GLU
45	DU	97	SER
57	DW	31	SER
48	DX	33	HIS
48	DX	52	ALA
48	DX	61	LYS
49	DY	14	LEU
49	DY	22	LEU
50	DZ	44	ARG
53	D2	45	SER
54	D3	27	ASN
2	AB	142	LYS
3	AC	8	GLY
3	AC	60	ALA
3	AC	85	LYS
4	AD	29	THR
4	AD	35	GLN
4	AD	42	ALA
4	AD	78	ALA
4	AD	125	ASN
4	AD	148	ALA
5	AE	23	THR
6	AF	53	LYS
7	AG	16	LYS
7	AG	144	ALA
8	AH	118	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	AI	68	GLY
10	AJ	36	VAL
10	AJ	42	LEU
10	AJ	92	LEU
11	AK	40	ALA
11	AK	126	ARG
13	AM	111	PRO
14	AN	64	CYS
14	AN	69	ARG
15	AO	2	LEU
15	AO	9	LYS
15	AO	45	HIS
17	AQ	5	ARG
17	AQ	35	LYS
18	AR	26	ALA
18	AR	29	LYS
18	AR	60	ARG
19	AS	4	LEU
20	AT	23	ARG
20	AT	29	THR
20	AT	74	HIS
21	AU	9	GLU
2	BB	81	ASP
2	BB	134	LEU
2	BB	182	VAL
2	BB	187	ASP
3	BC	47	ALA
3	BC	65	VAL
3	BC	74	ILE
4	BD	41	GLY
4	BD	115	GLN
4	BD	153	ARG
4	BD	174	ALA
4	BD	203	TYR
5	BE	106	ALA
5	BE	112	ALA
5	BE	149	PRO
6	BF	13	ASP
6	BF	62	MET
7	BG	27	ASN
7	BG	130	LYS
7	BG	136	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	BJ	29	ALA
11	BK	77	GLY
11	BK	88	PRO
11	BK	118	ASN
12	BL	21	PRO
13	BM	32	ILE
14	BN	15	LEU
14	BN	57	PRO
14	BN	65	ARG
15	BO	45	HIS
17	BQ	47	ASP
17	BQ	70	LYS
17	BQ	79	GLU
18	BR	29	LYS
20	BT	6	ALA
20	BT	50	PHE
27	CC	160	TYR
27	CC	204	LEU
28	CD	57	ALA
28	CD	67	HIS
28	CD	133	THR
30	CF	129	MET
30	CF	132	ARG
31	CG	131	VAL
32	CH	8	LYS
32	CH	9	VAL
32	CH	51	ARG
34	CJ	89	PHE
39	CO	51	ALA
39	CO	76	LYS
39	CO	94	ARG
44	CT	5	GLU
44	CT	41	ALA
44	CT	52	GLU
47	CW	7	ARG
47	CW	59	ALA
48	CX	59	ASP
49	CY	10	SER
49	CY	21	LEU
51	C0	53	VAL
52	C1	50	GLU
55	C4	20	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DC	113	ASP
27	DC	158	GLY
27	DC	200	MET
27	DC	231	HIS
27	DC	243	PRO
28	DD	133	THR
29	DE	200	LEU
30	DF	4	HIS
30	DF	26	GLN
30	DF	54	ALA
30	DF	171	ALA
31	DG	3	VAL
31	DG	7	PRO
31	DG	45	ALA
31	DG	159	LYS
32	DH	16	GLY
32	DH	42	LYS
32	DH	71	LYS
33	DI	21	PRO
33	DI	100	ILE
34	DJ	30	THR
35	DK	23	LYS
35	DK	110	GLU
36	DL	82	LEU
37	DM	17	ASN
37	DM	28	PHE
37	DM	54	THR
38	DN	84	GLY
39	DO	60	GLU
40	DP	110	LYS
41	DQ	66	ALA
42	DR	49	ILE
43	DS	36	LEU
45	DU	50	ALA
46	DV	16	ALA
46	DV	43	ASP
57	DW	11	ASP
49	DY	4	LYS
49	DY	34	SER
49	DY	60	LYS
51	D0	19	ASP
51	D0	37	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AB	42	LEU
2	AB	83	ALA
2	AB	111	LYS
2	AB	218	ALA
3	AC	26	LYS
3	AC	64	ARG
3	AC	76	ILE
3	AC	166	TRP
4	AD	69	ARG
4	AD	139	ASN
5	AE	55	VAL
6	AF	54	LEU
7	AG	78	ARG
9	AI	56	MET
10	AJ	31	ARG
11	AK	55	ARG
11	AK	123	PRO
12	AL	20	VAL
13	AM	49	GLU
16	AP	8	ARG
16	AP	50	THR
18	AR	59	LYS
19	AS	12	LEU
19	AS	30	LEU
19	AS	74	ALA
20	AT	39	GLU
21	AU	14	ALA
21	AU	22	CYS
21	AU	24	LYS
21	AU	51	ALA
24	AY	41	ILE
24	AY	95	ALA
2	BB	119	GLN
2	BB	135	MET
2	BB	151	LYS
2	BB	211	LEU
3	BC	44	LYS
3	BC	114	LEU
4	BD	49	ASP
4	BD	169	TRP
6	BF	18	VAL
6	BF	94	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	BG	78	ARG
8	BH	20	ASN
8	BH	32	LYS
9	BI	125	GLN
10	BJ	31	ARG
10	BJ	90	LEU
12	BL	76	HIS
15	BO	28	VAL
16	BP	10	GLY
16	BP	13	LYS
16	BP	74	LEU
19	BS	22	VAL
19	BS	26	ASP
20	BT	37	ALA
20	BT	54	GLN
20	BT	85	LEU
21	BU	22	CYS
21	BU	52	VAL
27	CC	75	ALA
28	CD	98	VAL
29	CE	97	ASN
30	CF	42	ALA
31	CG	7	PRO
31	CG	78	VAL
31	CG	98	LYS
31	CG	155	PRO
32	CH	55	GLU
33	CI	120	ASP
34	CJ	25	LEU
35	CK	29	HIS
36	CL	5	THR
36	CL	84	LYS
36	CL	101	ILE
38	CN	118	ARG
39	CO	41	ALA
43	CS	10	ALA
44	CT	37	ASP
44	CT	90	GLY
49	CY	5	GLU
27	DC	142	ASN
29	DE	135	ALA
30	DF	109	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DG	66	THR
31	DG	155	PRO
33	DI	116	MET
36	DL	86	GLU
37	DM	116	ALA
40	DP	65	ASN
40	DP	113	LEU
42	DR	53	PHE
43	DS	57	ASN
43	DS	62	ASP
44	DT	24	MET
45	DU	67	SER
57	DW	16	ARG
48	DX	54	GLY
49	DY	23	ARG
53	D2	31	LEU
53	D2	44	VAL
4	AD	36	ALA
6	AF	27	ALA
7	AG	17	PHE
7	AG	104	VAL
9	AI	49	GLN
9	AI	50	PRO
10	AJ	45	ARG
15	AO	16	ARG
16	AP	28	ARG
16	AP	44	SER
20	AT	54	GLN
24	AY	33	ALA
2	BB	16	GLY
2	BB	34	ARG
2	BB	87	ASP
3	BC	73	GLY
5	BE	23	THR
5	BE	98	ALA
5	BE	132	PRO
7	BG	26	VAL
7	BG	30	MET
13	BM	9	PRO
15	BO	24	THR
21	BU	26	GLY
21	BU	37	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	CC	154	ALA
29	CE	177	PRO
30	CF	102	LEU
30	CF	174	PHE
33	CI	51	GLY
33	CI	101	SER
36	CL	12	SER
37	CM	114	ARG
42	CR	64	VAL
43	CS	45	VAL
45	CU	36	GLU
27	DC	252	LYS
27	DC	269	ARG
29	DE	97	ASN
30	DF	93	GLU
32	DH	53	GLU
32	DH	57	LYS
32	DH	76	GLU
32	DH	86	ASP
33	DI	73	PRO
33	DI	108	ILE
37	DM	55	ARG
38	DN	52	ILE
41	DQ	106	THR
44	DT	2	ILE
45	DU	16	LYS
51	D0	54	ILE
4	AD	24	VAL
7	AG	5	VAL
9	AI	54	VAL
20	AT	66	ILE
21	AU	40	PRO
3	BC	71	ARG
3	BC	75	VAL
3	BC	148	ILE
4	BD	27	ILE
5	BE	107	GLY
10	BJ	39	PRO
19	BS	44	ILE
27	CC	27	LYS
29	CE	193	VAL
31	CG	11	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DC	28	PRO
29	DE	177	PRO
33	DI	84	GLY
35	DK	50	GLY
35	DK	93	GLN
37	DM	46	ILE
42	DR	63	VAL
2	AB	150	ILE
4	AD	100	VAL
7	AG	80	GLY
14	AN	10	VAL
15	AO	85	GLY
19	AS	44	ILE
24	AY	129	VAL
2	BB	172	ILE
4	BD	24	VAL
7	BG	7	GLY
9	BI	71	ILE
10	BJ	41	PRO
18	BR	25	ILE
38	CN	109	PRO
45	CU	54	PRO
35	DK	48	PRO
37	DM	87	GLY
2	AB	79	VAL
2	AB	155	GLY
12	AL	70	GLY
14	AN	45	VAL
16	AP	75	ILE
7	BG	92	PRO
9	BI	57	VAL
12	BL	15	VAL
13	BM	59	VAL
27	CC	195	GLY
33	CI	121	ILE
34	CJ	82	GLY
34	CJ	97	PRO
39	CO	101	GLY
43	CS	66	ILE
49	CY	46	VAL
31	DG	16	VAL
31	DG	125	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	DM	4	PRO
43	DS	35	ILE
13	AM	94	LEU
3	BC	59	PRO
4	BD	51	GLY
20	BT	82	ILE
30	CF	28	PRO
27	DC	123	ILE
30	DF	75	GLY
31	DG	143	VAL
33	DI	12	VAL
33	DI	57	VAL
34	DJ	103	ILE
36	DL	53	GLY
39	DO	66	GLY
2	BB	200	PRO
3	BC	97	PRO
6	BF	29	ILE
8	BH	71	VAL
13	BM	6	ILE
13	BM	64	VAL
16	BP	36	VAL
44	CT	2	ILE
45	CU	53	GLN
27	DC	130	PRO
31	DG	75	VAL
32	DH	107	GLY
54	D3	17	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	180/180 (100%)	114 (63%)	66 (37%)	0	1
2	BB	180/180 (100%)	131 (73%)	49 (27%)	0	2
3	AC	170/170 (100%)	127 (75%)	43 (25%)	0	3

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	BC	170/170 (100%)	123 (72%)	47 (28%)	0	2
4	AD	172/172 (100%)	132 (77%)	40 (23%)	1	4
4	BD	172/172 (100%)	123 (72%)	49 (28%)	0	2
5	AE	113/113 (100%)	80 (71%)	33 (29%)	0	2
5	BE	113/113 (100%)	87 (77%)	26 (23%)	1	4
6	AF	87/87 (100%)	60 (69%)	27 (31%)	0	1
6	BF	87/87 (100%)	61 (70%)	26 (30%)	0	2
7	AG	124/124 (100%)	90 (73%)	34 (27%)	0	2
7	BG	124/124 (100%)	85 (68%)	39 (32%)	0	1
8	AH	104/104 (100%)	78 (75%)	26 (25%)	1	3
8	BH	104/104 (100%)	78 (75%)	26 (25%)	1	3
9	AI	105/105 (100%)	74 (70%)	31 (30%)	0	2
9	BI	105/105 (100%)	67 (64%)	38 (36%)	0	1
10	AJ	86/86 (100%)	63 (73%)	23 (27%)	0	3
10	BJ	86/86 (100%)	61 (71%)	25 (29%)	0	2
11	AK	90/90 (100%)	66 (73%)	24 (27%)	0	3
11	BK	90/90 (100%)	67 (74%)	23 (26%)	0	3
12	AL	103/103 (100%)	86 (84%)	17 (16%)	2	13
12	BL	103/103 (100%)	75 (73%)	28 (27%)	0	2
13	AM	92/92 (100%)	73 (79%)	19 (21%)	1	6
13	BM	92/92 (100%)	71 (77%)	21 (23%)	1	5
14	AN	79/83 (95%)	56 (71%)	23 (29%)	0	2
14	BN	79/83 (95%)	60 (76%)	19 (24%)	1	4
15	AO	76/76 (100%)	61 (80%)	15 (20%)	1	8
15	BO	76/76 (100%)	60 (79%)	16 (21%)	1	6
16	AP	65/65 (100%)	45 (69%)	20 (31%)	0	1
16	BP	65/65 (100%)	48 (74%)	17 (26%)	0	3
17	AQ	74/74 (100%)	54 (73%)	20 (27%)	0	2
17	BQ	74/74 (100%)	47 (64%)	27 (36%)	0	1
18	AR	48/48 (100%)	40 (83%)	8 (17%)	2	13
18	BR	48/48 (100%)	40 (83%)	8 (17%)	2	13

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
19	AS	70/70 (100%)	56 (80%)	14 (20%)	1	8
19	BS	70/70 (100%)	53 (76%)	17 (24%)	1	4
20	AT	65/65 (100%)	45 (69%)	20 (31%)	0	1
20	BT	65/65 (100%)	47 (72%)	18 (28%)	0	2
21	AU	44/44 (100%)	23 (52%)	21 (48%)	0	0
21	BU	44/44 (100%)	26 (59%)	18 (41%)	0	0
24	AY	157/157 (100%)	139 (88%)	18 (12%)	6	27
27	CC	216/216 (100%)	182 (84%)	34 (16%)	3	14
27	DC	216/216 (100%)	173 (80%)	43 (20%)	1	8
28	CD	164/164 (100%)	143 (87%)	21 (13%)	5	22
28	DD	164/164 (100%)	135 (82%)	29 (18%)	2	11
29	CE	165/165 (100%)	143 (87%)	22 (13%)	4	20
29	DE	165/165 (100%)	126 (76%)	39 (24%)	1	4
30	CF	148/148 (100%)	112 (76%)	36 (24%)	1	4
30	DF	148/148 (100%)	114 (77%)	34 (23%)	1	4
31	CG	137/137 (100%)	114 (83%)	23 (17%)	2	12
31	DG	137/137 (100%)	119 (87%)	18 (13%)	5	21
32	CH	114/114 (100%)	89 (78%)	25 (22%)	1	5
32	DH	114/114 (100%)	92 (81%)	22 (19%)	1	9
33	CI	109/109 (100%)	78 (72%)	31 (28%)	0	2
33	DI	109/109 (100%)	83 (76%)	26 (24%)	1	4
34	CJ	116/116 (100%)	97 (84%)	19 (16%)	2	13
34	DJ	116/116 (100%)	95 (82%)	21 (18%)	2	10
35	CK	103/103 (100%)	85 (82%)	18 (18%)	2	11
35	DK	103/103 (100%)	85 (82%)	18 (18%)	2	11
36	CL	102/102 (100%)	81 (79%)	21 (21%)	1	7
36	DL	102/102 (100%)	81 (79%)	21 (21%)	1	7
37	CM	109/109 (100%)	87 (80%)	22 (20%)	1	7
37	DM	109/109 (100%)	87 (80%)	22 (20%)	1	7
38	CN	100/100 (100%)	83 (83%)	17 (17%)	2	12
38	DN	100/100 (100%)	80 (80%)	20 (20%)	1	8

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	CO	86/86 (100%)	68 (79%)	18 (21%)	1	6
39	DO	86/86 (100%)	66 (77%)	20 (23%)	1	4
40	CP	99/99 (100%)	78 (79%)	21 (21%)	1	6
40	DP	99/99 (100%)	76 (77%)	23 (23%)	1	4
41	CQ	89/89 (100%)	76 (85%)	13 (15%)	3	17
41	DQ	89/89 (100%)	74 (83%)	15 (17%)	2	12
42	CR	84/84 (100%)	70 (83%)	14 (17%)	2	13
42	DR	84/84 (100%)	66 (79%)	18 (21%)	1	6
43	CS	93/93 (100%)	83 (89%)	10 (11%)	7	29
43	DS	93/93 (100%)	71 (76%)	22 (24%)	1	4
44	CT	80/80 (100%)	69 (86%)	11 (14%)	4	19
44	DT	80/80 (100%)	57 (71%)	23 (29%)	0	2
45	CU	83/83 (100%)	64 (77%)	19 (23%)	1	5
45	DU	83/83 (100%)	63 (76%)	20 (24%)	1	4
46	CV	78/78 (100%)	63 (81%)	15 (19%)	1	9
46	DV	78/78 (100%)	63 (81%)	15 (19%)	1	9
47	CW	56/58 (97%)	50 (89%)	6 (11%)	8	29
48	CX	67/67 (100%)	56 (84%)	11 (16%)	2	13
48	DX	67/67 (100%)	56 (84%)	11 (16%)	2	13
49	CY	55/55 (100%)	46 (84%)	9 (16%)	2	13
49	DY	55/55 (100%)	43 (78%)	12 (22%)	1	6
50	CZ	48/48 (100%)	40 (83%)	8 (17%)	2	13
50	DZ	48/48 (100%)	38 (79%)	10 (21%)	1	6
51	C0	47/47 (100%)	41 (87%)	6 (13%)	5	22
51	D0	47/47 (100%)	41 (87%)	6 (13%)	5	22
52	C1	45/45 (100%)	38 (84%)	7 (16%)	3	15
52	D1	45/45 (100%)	37 (82%)	8 (18%)	2	11
53	C2	38/38 (100%)	32 (84%)	6 (16%)	3	14
53	D2	38/38 (100%)	33 (87%)	5 (13%)	5	20
54	C3	51/51 (100%)	48 (94%)	3 (6%)	23	60
54	D3	51/51 (100%)	48 (94%)	3 (6%)	23	60

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	C4	34/34 (100%)	28 (82%)	6 (18%)	2	11
55	D4	34/34 (100%)	27 (79%)	7 (21%)	1	7
57	DW	55/57 (96%)	47 (86%)	8 (14%)	4	17
All	All	9482/9494 (100%)	7392 (78%)	2090 (22%)	1	5

All (2090) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	9	LEU
2	AB	13	VAL
2	AB	14	HIS
2	AB	18	GLN
2	AB	19	THR
2	AB	20	ARG
2	AB	22	TRP
2	AB	31	PHE
2	AB	34	ARG
2	AB	38	HIS
2	AB	40	ILE
2	AB	43	GLU
2	AB	45	THR
2	AB	48	MET
2	AB	49	PHE
2	AB	51	GLU
2	AB	55	GLU
2	AB	56	LEU
2	AB	63	LYS
2	AB	65	LYS
2	AB	67	LEU
2	AB	69	VAL
2	AB	71	THR
2	AB	77	GLU
2	AB	81	ASP
2	AB	84	LEU
2	AB	88	GLN
2	AB	89	PHE
2	AB	90	PHE
2	AB	100	LEU
2	AB	101	THR
2	AB	106	VAL
2	AB	108	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AB	110	ILE
2	AB	111	LYS
2	AB	116	LEU
2	AB	125	PHE
2	AB	128	LEU
2	AB	129	THR
2	AB	130	LYS
2	AB	131	LYS
2	AB	132	GLU
2	AB	134	LEU
2	AB	135	MET
2	AB	136	ARG
2	AB	142	LYS
2	AB	143	LEU
2	AB	145	ASN
2	AB	156	LEU
2	AB	160	LEU
2	AB	162	VAL
2	AB	169	HIS
2	AB	173	LYS
2	AB	178	LEU
2	AB	180	ILE
2	AB	185	ILE
2	AB	187	ASP
2	AB	193	ASP
2	AB	196	ASP
2	AB	198	VAL
2	AB	204	ASP
2	AB	206	ILE
2	AB	207	ARG
2	AB	209	VAL
2	AB	219	THR
2	AB	224	ARG
3	AC	2	GLN
3	AC	3	LYS
3	AC	7	ASN
3	AC	10	ARG
3	AC	13	ILE
3	AC	14	VAL
3	AC	15	LYS
3	AC	17	TRP
3	AC	22	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	24	ASN
3	AC	25	THR
3	AC	26	LYS
3	AC	28	PHE
3	AC	32	LEU
3	AC	34	SER
3	AC	36	PHE
3	AC	43	THR
3	AC	54	ILE
3	AC	57	GLU
3	AC	58	ARG
3	AC	63	ILE
3	AC	81	GLU
3	AC	85	LYS
3	AC	93	ILE
3	AC	102	ILE
3	AC	106	ARG
3	AC	110	LEU
3	AC	120	THR
3	AC	128	MET
3	AC	139	ASN
3	AC	141	MET
3	AC	143	LEU
3	AC	149	LYS
3	AC	153	SER
3	AC	156	LEU
3	AC	160	GLU
3	AC	161	ILE
3	AC	165	GLU
3	AC	166	TRP
3	AC	168	ARG
3	AC	171	ARG
3	AC	183	TYR
3	AC	184	ASN
4	AD	2	ARG
4	AD	3	TYR
4	AD	4	LEU
4	AD	8	LEU
4	AD	12	ARG
4	AD	30	LYS
4	AD	31	CYS
4	AD	34	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	43	ARG
4	AD	44	LYS
4	AD	47	LEU
4	AD	54	LEU
4	AD	55	ARG
4	AD	57	LYS
4	AD	59	LYS
4	AD	62	ARG
4	AD	68	GLU
4	AD	69	ARG
4	AD	77	GLU
4	AD	82	LYS
4	AD	85	THR
4	AD	103	ARG
4	AD	104	MET
4	AD	109	THR
4	AD	115	GLN
4	AD	118	SER
4	AD	122	ILE
4	AD	130	ASN
4	AD	137	SER
4	AD	142	VAL
4	AD	160	LEU
4	AD	162	GLU
4	AD	170	LEU
4	AD	176	LYS
4	AD	178	GLU
4	AD	193	ASP
4	AD	194	ILE
4	AD	195	ASN
4	AD	196	GLU
4	AD	205	LYS
5	AE	14	LEU
5	AE	18	ASN
5	AE	25	LYS
5	AE	37	VAL
5	AE	45	VAL
5	AE	53	ARG
5	AE	54	GLU
5	AE	55	VAL
5	AE	64	GLU
5	AE	68	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	71	ILE
5	AE	72	ASN
5	AE	73	VAL
5	AE	77	ASN
5	AE	82	HIS
5	AE	87	VAL
5	AE	92	ARG
5	AE	94	PHE
5	AE	100	GLU
5	AE	102	THR
5	AE	114	LEU
5	AE	115	GLU
5	AE	119	VAL
5	AE	121	ASN
5	AE	123	LEU
5	AE	125	LYS
5	AE	130	THR
5	AE	131	ASN
5	AE	133	ILE
5	AE	135	VAL
5	AE	136	VAL
5	AE	139	THR
5	AE	148	SER
6	AF	2	ARG
6	AF	6	ILE
6	AF	11	HIS
6	AF	14	GLN
6	AF	15	SER
6	AF	17	GLN
6	AF	24	ARG
6	AF	35	LYS
6	AF	39	LEU
6	AF	42	TRP
6	AF	44	ARG
6	AF	46	GLN
6	AF	51	ILE
6	AF	52	ASN
6	AF	55	HIS
6	AF	62	MET
6	AF	63	ASN
6	AF	69	GLU
6	AF	71	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	73	GLU
6	AF	77	THR
6	AF	82	ASP
6	AF	85	ILE
6	AF	87	SER
6	AF	96	VAL
6	AF	97	THR
6	AF	100	SER
7	AG	3	ARG
7	AG	5	VAL
7	AG	6	ILE
7	AG	8	GLN
7	AG	12	LEU
7	AG	25	PHE
7	AG	29	LEU
7	AG	31	VAL
7	AG	42	VAL
7	AG	46	LEU
7	AG	48	THR
7	AG	51	GLN
7	AG	58	LEU
7	AG	61	PHE
7	AG	62	GLU
7	AG	67	ASN
7	AG	69	ARG
7	AG	74	VAL
7	AG	75	LYS
7	AG	77	ARG
7	AG	78	ARG
7	AG	79	VAL
7	AG	85	GLN
7	AG	88	VAL
7	AG	89	GLU
7	AG	90	VAL
7	AG	91	ARG
7	AG	110	ARG
7	AG	119	LEU
7	AG	134	VAL
7	AG	135	LYS
7	AG	141	HIS
7	AG	145	GLU
7	AG	147	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	2	MET
8	AH	10	LEU
8	AH	12	ARG
8	AH	21	LYS
8	AH	25	THR
8	AH	29	SER
8	AH	30	LYS
8	AH	31	LEU
8	AH	37	ASN
8	AH	41	GLU
8	AH	47	ASP
8	AH	48	PHE
8	AH	54	THR
8	AH	76	ARG
8	AH	82	LEU
8	AH	86	LYS
8	AH	88	LYS
8	AH	89	ASP
8	AH	93	LYS
8	AH	98	LEU
8	AH	102	VAL
8	AH	103	VAL
8	AH	106	SER
8	AH	111	THR
8	AH	120	LEU
8	AH	124	ILE
9	AI	6	TYR
9	AI	10	ARG
9	AI	11	ARG
9	AI	12	LYS
9	AI	13	SER
9	AI	17	ARG
9	AI	21	LYS
9	AI	29	ILE
9	AI	32	ARG
9	AI	35	GLU
9	AI	41	GLU
9	AI	42	THR
9	AI	45	MET
9	AI	48	ARG
9	AI	56	MET
9	AI	60	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	AI	62	LEU
9	AI	67	LYS
9	AI	86	LEU
9	AI	87	MET
9	AI	88	GLU
9	AI	89	TYR
9	AI	93	LEU
9	AI	96	GLU
9	AI	98	ARG
9	AI	105	ARG
9	AI	115	VAL
9	AI	119	LYS
9	AI	126	PHE
9	AI	128	LYS
9	AI	129	ARG
10	AJ	6	ILE
10	AJ	8	ILE
10	AJ	15	HIS
10	AJ	17	LEU
10	AJ	25	ILE
10	AJ	27	GLU
10	AJ	28	THR
10	AJ	40	ILE
10	AJ	42	LEU
10	AJ	44	THR
10	AJ	49	PHE
10	AJ	52	LEU
10	AJ	53	ILE
10	AJ	54	SER
10	AJ	59	LYS
10	AJ	63	ASP
10	AJ	71	LEU
10	AJ	73	LEU
10	AJ	75	ASP
10	AJ	83	THR
10	AJ	89	ARG
10	AJ	92	LEU
10	AJ	101	SER
11	AK	17	ASP
11	AK	23	HIS
11	AK	30	ILE
11	AK	31	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	AK	34	THR
11	AK	37	GLN
11	AK	51	PHE
11	AK	64	VAL
11	AK	75	GLU
11	AK	80	ASN
11	AK	81	LEU
11	AK	82	GLU
11	AK	92	ARG
11	AK	93	GLU
11	AK	95	THR
11	AK	96	ILE
11	AK	100	ASN
11	AK	106	ILE
11	AK	108	ASN
11	AK	110	THR
11	AK	113	THR
11	AK	121	ARG
11	AK	125	LYS
11	AK	127	ARG
12	AL	3	VAL
12	AL	18	SER
12	AL	20	VAL
12	AL	24	GLU
12	AL	28	GLN
12	AL	29	LYS
12	AL	43	LYS
12	AL	53	ARG
12	AL	61	GLU
12	AL	63	THR
12	AL	73	LEU
12	AL	74	GLN
12	AL	75	GLU
12	AL	77	SER
12	AL	101	LEU
12	AL	114	SER
12	AL	120	ARG
13	AM	3	ILE
13	AM	12	LYS
13	AM	15	VAL
13	AM	26	LYS
13	AM	28	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	AM	43	LYS
13	AM	44	ILE
13	AM	54	THR
13	AM	56	ARG
13	AM	70	ARG
13	AM	71	GLU
13	AM	78	ARG
13	AM	82	LEU
13	AM	86	ARG
13	AM	90	HIS
13	AM	94	LEU
13	AM	106	ARG
13	AM	107	THR
13	AM	111	PRO
14	AN	6	LYS
14	AN	9	GLU
14	AN	15	LEU
14	AN	23	ARG
14	AN	25	GLU
14	AN	27	LYS
14	AN	41	ARG
14	AN	43	ASN
14	AN	46	LEU
14	AN	48	LEU
14	AN	49	GLN
14	AN	51	LEU
14	AN	58	SER
14	AN	62	ASN
14	AN	63	ARG
14	AN	65	ARG
14	AN	76	LYS
14	AN	81	ARG
14	AN	82	ILE
14	AN	89	MET
14	AN	92	GLU
14	AN	98	LYS
14	AN	100	SER
15	AO	7	THR
15	AO	12	SER
15	AO	16	ARG
15	AO	21	THR
15	AO	23	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AO	30	LEU
15	AO	34	GLN
15	AO	38	LEU
15	AO	39	GLN
15	AO	47	LYS
15	AO	52	ARG
15	AO	56	LEU
15	AO	57	ARG
15	AO	74	VAL
15	AO	86	LEU
16	AP	1	MET
16	AP	2	VAL
16	AP	6	LEU
16	AP	9	HIS
16	AP	16	PHE
16	AP	18	GLN
16	AP	19	VAL
16	AP	20	VAL
16	AP	31	ARG
16	AP	33	ILE
16	AP	34	GLU
16	AP	39	PHE
16	AP	46	LYS
16	AP	51	ARG
16	AP	67	ILE
16	AP	69	ASP
16	AP	70	ARG
16	AP	75	ILE
16	AP	76	LYS
16	AP	80	LYS
17	AQ	3	LYS
17	AQ	6	THR
17	AQ	10	ARG
17	AQ	13	SER
17	AQ	16	MET
17	AQ	20	ILE
17	AQ	22	VAL
17	AQ	27	PHE
17	AQ	28	VAL
17	AQ	37	ILE
17	AQ	50	ASN
17	AQ	51	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AQ	54	ILE
17	AQ	58	VAL
17	AQ	60	ILE
17	AQ	73	THR
17	AQ	75	VAL
17	AQ	76	ARG
17	AQ	80	LYS
17	AQ	82	VAL
18	AR	24	ASP
18	AR	29	LYS
18	AR	35	SER
18	AR	42	ARG
18	AR	47	ARG
18	AR	60	ARG
18	AR	70	THR
18	AR	71	ASP
19	AS	5	LYS
19	AS	15	LEU
19	AS	20	LYS
19	AS	26	ASP
19	AS	34	SER
19	AS	39	ILE
19	AS	48	ILE
19	AS	54	ARG
19	AS	55	GLN
19	AS	62	THR
19	AS	64	GLU
19	AS	70	LEU
19	AS	73	PHE
19	AS	78	THR
20	AT	4	LYS
20	AT	7	LYS
20	AT	9	ARG
20	AT	11	ILE
20	AT	12	GLN
20	AT	14	GLU
20	AT	22	SER
20	AT	25	SER
20	AT	26	MET
20	AT	29	THR
20	AT	33	LYS
20	AT	47	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AT	52	GLU
20	AT	53	MET
20	AT	65	LEU
20	AT	67	HIS
20	AT	68	LYS
20	AT	69	ASN
20	AT	75	LYS
20	AT	83	ASN
21	AU	4	LYS
21	AU	5	VAL
21	AU	8	ASN
21	AU	9	GLU
21	AU	11	PHE
21	AU	15	LEU
21	AU	17	ARG
21	AU	18	PHE
21	AU	19	LYS
21	AU	27	VAL
21	AU	28	LEU
21	AU	32	ARG
21	AU	33	ARG
21	AU	36	PHE
21	AU	42	THR
21	AU	43	GLU
21	AU	45	LYS
21	AU	46	ARG
21	AU	50	SER
21	AU	52	VAL
21	AU	53	LYS
24	AY	16	LYS
24	AY	23	THR
24	AY	25	ILE
24	AY	38	LEU
24	AY	41	ILE
24	AY	57	SER
24	AY	87	ASP
24	AY	98	ASP
24	AY	106	LEU
24	AY	107	THR
24	AY	133	ARG
24	AY	135	ASP
24	AY	145	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	AY	147	LYS
24	AY	157	SER
24	AY	159	ASP
24	AY	163	LYS
24	AY	179	LYS
2	BB	13	VAL
2	BB	14	HIS
2	BB	15	PHE
2	BB	17	HIS
2	BB	18	GLN
2	BB	19	THR
2	BB	23	ASN
2	BB	26	MET
2	BB	27	LYS
2	BB	34	ARG
2	BB	39	ILE
2	BB	42	LEU
2	BB	48	MET
2	BB	49	PHE
2	BB	50	ASN
2	BB	56	LEU
2	BB	62	ARG
2	BB	65	LYS
2	BB	67	LEU
2	BB	80	LYS
2	BB	81	ASP
2	BB	87	ASP
2	BB	88	GLN
2	BB	90	PHE
2	BB	91	VAL
2	BB	93	HIS
2	BB	94	ARG
2	BB	95	TRP
2	BB	100	LEU
2	BB	105	THR
2	BB	116	LEU
2	BB	125	PHE
2	BB	129	THR
2	BB	132	GLU
2	BB	135	MET
2	BB	138	ARG
2	BB	142	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BB	143	LEU
2	BB	162	VAL
2	BB	163	ILE
2	BB	169	HIS
2	BB	173	LYS
2	BB	187	ASP
2	BB	195	VAL
2	BB	196	ASP
2	BB	206	ILE
2	BB	209	VAL
2	BB	219	THR
2	BB	221	ARG
3	BC	2	GLN
3	BC	14	VAL
3	BC	15	LYS
3	BC	17	TRP
3	BC	25	THR
3	BC	26	LYS
3	BC	28	PHE
3	BC	32	LEU
3	BC	36	PHE
3	BC	42	LEU
3	BC	44	LYS
3	BC	45	GLU
3	BC	52	SER
3	BC	55	VAL
3	BC	57	GLU
3	BC	69	THR
3	BC	79	LYS
3	BC	93	ILE
3	BC	102	ILE
3	BC	106	ARG
3	BC	110	LEU
3	BC	111	ASP
3	BC	118	SER
3	BC	120	THR
3	BC	128	MET
3	BC	130	ARG
3	BC	131	ARG
3	BC	139	ASN
3	BC	143	LEU
3	BC	146	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	BC	148	ILE
3	BC	150	VAL
3	BC	151	GLU
3	BC	166	TRP
3	BC	167	TYR
3	BC	169	GLU
3	BC	174	LEU
3	BC	175	HIS
3	BC	177	LEU
3	BC	178	ARG
3	BC	184	ASN
3	BC	189	HIS
3	BC	191	THR
3	BC	192	TYR
3	BC	199	VAL
3	BC	200	TRP
3	BC	201	ILE
4	BD	4	LEU
4	BD	7	LYS
4	BD	8	LEU
4	BD	27	ILE
4	BD	28	ASP
4	BD	30	LYS
4	BD	31	CYS
4	BD	32	LYS
4	BD	46	ARG
4	BD	53	GLN
4	BD	54	LEU
4	BD	55	ARG
4	BD	57	LYS
4	BD	58	GLN
4	BD	62	ARG
4	BD	66	VAL
4	BD	68	GLU
4	BD	80	ARG
4	BD	82	LYS
4	BD	85	THR
4	BD	89	LEU
4	BD	90	LEU
4	BD	92	LEU
4	BD	97	LEU
4	BD	99	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	BD	101	VAL
4	BD	109	THR
4	BD	115	GLN
4	BD	116	LEU
4	BD	119	HIS
4	BD	124	VAL
4	BD	127	ARG
4	BD	128	VAL
4	BD	131	ILE
4	BD	137	SER
4	BD	142	VAL
4	BD	146	GLU
4	BD	151	GLN
4	BD	160	LEU
4	BD	162	GLU
4	BD	170	LEU
4	BD	177	MET
4	BD	178	GLU
4	BD	183	ARG
4	BD	190	LEU
4	BD	197	HIS
4	BD	199	ILE
4	BD	202	LEU
4	BD	205	LYS
5	BE	9	GLU
5	BE	14	LEU
5	BE	17	VAL
5	BE	24	VAL
5	BE	25	LYS
5	BE	28	ARG
5	BE	45	VAL
5	BE	68	ARG
5	BE	72	ASN
5	BE	76	ASN
5	BE	79	THR
5	BE	80	LEU
5	BE	92	ARG
5	BE	96	GLN
5	BE	100	GLU
5	BE	111	ARG
5	BE	113	VAL
5	BE	114	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	BE	119	VAL
5	BE	125	LYS
5	BE	130	THR
5	BE	136	VAL
5	BE	139	THR
5	BE	151	MET
5	BE	155	LYS
5	BE	156	ARG
6	BF	1	MET
6	BF	2	ARG
6	BF	5	GLU
6	BF	7	VAL
6	BF	8	PHE
6	BF	9	MET
6	BF	10	VAL
6	BF	23	GLU
6	BF	24	ARG
6	BF	29	ILE
6	BF	35	LYS
6	BF	36	ILE
6	BF	38	ARG
6	BF	39	LEU
6	BF	51	ILE
6	BF	53	LYS
6	BF	54	LEU
6	BF	55	HIS
6	BF	63	ASN
6	BF	69	GLU
6	BF	73	GLU
6	BF	77	THR
6	BF	87	SER
6	BF	91	ARG
6	BF	93	LYS
6	BF	97	THR
7	BG	2	ARG
7	BG	4	ARG
7	BG	5	VAL
7	BG	8	GLN
7	BG	11	ILE
7	BG	21	LEU
7	BG	22	LEU
7	BG	25	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	BG	29	LEU
7	BG	35	LYS
7	BG	46	LEU
7	BG	47	GLU
7	BG	49	LEU
7	BG	52	ARG
7	BG	58	LEU
7	BG	61	PHE
7	BG	65	LEU
7	BG	69	ARG
7	BG	72	VAL
7	BG	74	VAL
7	BG	76	SER
7	BG	77	ARG
7	BG	83	THR
7	BG	86	VAL
7	BG	89	GLU
7	BG	90	VAL
7	BG	94	ARG
7	BG	96	ASN
7	BG	108	ARG
7	BG	110	ARG
7	BG	119	LEU
7	BG	125	ASP
7	BG	128	GLU
7	BG	129	ASN
7	BG	134	VAL
7	BG	137	ARG
7	BG	139	ASP
7	BG	143	MET
7	BG	145	GLU
8	BH	2	MET
8	BH	10	LEU
8	BH	12	ARG
8	BH	21	LYS
8	BH	29	SER
8	BH	30	LYS
8	BH	41	GLU
8	BH	46	GLU
8	BH	48	PHE
8	BH	53	ASP
8	BH	58	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	BH	62	LEU
8	BH	64	TYR
8	BH	65	PHE
8	BH	66	GLN
8	BH	73	SER
8	BH	74	ILE
8	BH	76	ARG
8	BH	79	ARG
8	BH	86	LYS
8	BH	100	ILE
8	BH	103	VAL
8	BH	111	THR
8	BH	116	ARG
8	BH	120	LEU
8	BH	124	ILE
9	BI	8	THR
9	BI	10	ARG
9	BI	11	ARG
9	BI	17	ARG
9	BI	27	ILE
9	BI	28	VAL
9	BI	31	GLN
9	BI	32	ARG
9	BI	35	GLU
9	BI	42	THR
9	BI	44	ARG
9	BI	45	MET
9	BI	47	VAL
9	BI	48	ARG
9	BI	53	LEU
9	BI	55	ASP
9	BI	56	MET
9	BI	58	GLU
9	BI	59	LYS
9	BI	60	LEU
9	BI	62	LEU
9	BI	65	THR
9	BI	67	LYS
9	BI	84	ARG
9	BI	87	MET
9	BI	88	GLU
9	BI	89	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	BI	92	SER
9	BI	93	LEU
9	BI	96	GLU
9	BI	98	ARG
9	BI	104	THR
9	BI	105	ARG
9	BI	115	VAL
9	BI	119	LYS
9	BI	125	GLN
9	BI	126	PHE
9	BI	128	LYS
10	BJ	9	ARG
10	BJ	10	LEU
10	BJ	22	THR
10	BJ	25	ILE
10	BJ	27	GLU
10	BJ	32	THR
10	BJ	35	GLN
10	BJ	42	LEU
10	BJ	45	ARG
10	BJ	48	ARG
10	BJ	50	THR
10	BJ	58	ASN
10	BJ	59	LYS
10	BJ	63	ASP
10	BJ	64	GLN
10	BJ	66	GLU
10	BJ	73	LEU
10	BJ	77	VAL
10	BJ	78	GLU
10	BJ	80	THR
10	BJ	83	THR
10	BJ	84	VAL
10	BJ	87	LEU
10	BJ	89	ARG
10	BJ	92	LEU
11	BK	14	GLN
11	BK	26	PHE
11	BK	30	ILE
11	BK	32	THR
11	BK	41	LEU
11	BK	45	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	BK	63	GLN
11	BK	64	VAL
11	BK	71	ASP
11	BK	76	TYR
11	BK	80	ASN
11	BK	81	LEU
11	BK	82	GLU
11	BK	95	THR
11	BK	99	LEU
11	BK	100	ASN
11	BK	104	PHE
11	BK	105	ARG
11	BK	106	ILE
11	BK	113	THR
11	BK	124	LYS
11	BK	125	LYS
11	BK	127	ARG
12	BL	3	VAL
12	BL	4	ASN
12	BL	5	GLN
12	BL	9	LYS
12	BL	11	ARG
12	BL	15	VAL
12	BL	17	LYS
12	BL	19	ASN
12	BL	20	VAL
12	BL	21	PRO
12	BL	28	GLN
12	BL	30	ARG
12	BL	35	ARG
12	BL	43	LYS
12	BL	51	VAL
12	BL	57	THR
12	BL	58	ASN
12	BL	73	LEU
12	BL	74	GLN
12	BL	81	ILE
12	BL	85	ARG
12	BL	89	LEU
12	BL	92	VAL
12	BL	93	ARG
12	BL	101	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	BL	109	ARG
12	BL	114	SER
12	BL	120	ARG
13	BM	6	ILE
13	BM	20	SER
13	BM	24	VAL
13	BM	28	ARG
13	BM	30	LYS
13	BM	33	LEU
13	BM	40	GLU
13	BM	47	LEU
13	BM	52	ILE
13	BM	53	ASP
13	BM	55	LEU
13	BM	59	VAL
13	BM	62	PHE
13	BM	67	ASP
13	BM	71	GLU
13	BM	79	LEU
13	BM	86	ARG
13	BM	89	ARG
13	BM	90	HIS
13	BM	96	VAL
13	BM	100	ARG
14	BN	3	GLN
14	BN	9	GLU
14	BN	12	ARG
14	BN	15	LEU
14	BN	19	TYR
14	BN	22	LYS
14	BN	25	GLU
14	BN	27	LYS
14	BN	31	SER
14	BN	32	ASP
14	BN	34	ASN
14	BN	43	ASN
14	BN	48	LEU
14	BN	51	LEU
14	BN	60	GLN
14	BN	71	HIS
14	BN	77	PHE
14	BN	85	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	BN	90	ARG
15	BO	3	SER
15	BO	5	GLU
15	BO	16	ARG
15	BO	21	THR
15	BO	25	GLU
15	BO	34	GLN
15	BO	38	LEU
15	BO	47	LYS
15	BO	61	GLN
15	BO	62	ARG
15	BO	63	ARG
15	BO	69	LEU
15	BO	78	THR
15	BO	84	LEU
15	BO	86	LEU
15	BO	87	ARG
16	BP	1	MET
16	BP	2	VAL
16	BP	3	THR
16	BP	8	ARG
16	BP	17	TYR
16	BP	19	VAL
16	BP	26	ASN
16	BP	34	GLU
16	BP	36	VAL
16	BP	39	PHE
16	BP	46	LYS
16	BP	48	GLU
16	BP	51	ARG
16	BP	63	GLN
16	BP	69	ASP
16	BP	74	LEU
16	BP	80	LYS
17	BQ	3	LYS
17	BQ	4	ILE
17	BQ	6	THR
17	BQ	7	LEU
17	BQ	8	GLN
17	BQ	10	ARG
17	BQ	16	MET
17	BQ	17	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	BQ	22	VAL
17	BQ	26	ARG
17	BQ	27	PHE
17	BQ	28	VAL
17	BQ	39	ARG
17	BQ	47	ASP
17	BQ	50	ASN
17	BQ	51	GLU
17	BQ	54	ILE
17	BQ	58	VAL
17	BQ	64	ARG
17	BQ	69	THR
17	BQ	73	THR
17	BQ	74	LEU
17	BQ	75	VAL
17	BQ	77	VAL
17	BQ	78	VAL
17	BQ	80	LYS
17	BQ	82	VAL
18	BR	20	ILE
18	BR	24	ASP
18	BR	28	LEU
18	BR	32	ILE
18	BR	38	ILE
18	BR	46	THR
18	BR	47	ARG
18	BR	54	LEU
19	BS	5	LYS
19	BS	6	LYS
19	BS	10	ILE
19	BS	11	ASP
19	BS	12	LEU
19	BS	13	HIS
19	BS	15	LEU
19	BS	22	VAL
19	BS	24	SER
19	BS	27	LYS
19	BS	32	THR
19	BS	36	ARG
19	BS	38	THR
19	BS	48	ILE
19	BS	55	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
19	BS	57	VAL
19	BS	65	MET
20	BT	4	LYS
20	BT	7	LYS
20	BT	9	ARG
20	BT	11	ILE
20	BT	14	GLU
20	BT	18	LYS
20	BT	20	ASN
20	BT	26	MET
20	BT	28	ARG
20	BT	35	TYR
20	BT	38	ILE
20	BT	48	LYS
20	BT	53	MET
20	BT	63	LYS
20	BT	66	ILE
20	BT	75	LYS
20	BT	77	ASN
20	BT	78	LEU
21	BU	4	LYS
21	BU	7	GLU
21	BU	8	ASN
21	BU	11	PHE
21	BU	13	VAL
21	BU	15	LEU
21	BU	16	ARG
21	BU	18	PHE
21	BU	19	LYS
21	BU	21	SER
21	BU	27	VAL
21	BU	33	ARG
21	BU	35	GLU
21	BU	36	PHE
21	BU	37	TYR
21	BU	42	THR
21	BU	46	ARG
21	BU	48	LYS
27	CC	2	VAL
27	CC	9	SER
27	CC	13	ARG
27	CC	15	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	CC	17	LYS
27	CC	34	GLU
27	CC	37	SER
27	CC	42	ARG
27	CC	76	VAL
27	CC	96	LYS
27	CC	101	ARG
27	CC	104	LEU
27	CC	109	LEU
27	CC	110	LYS
27	CC	113	ASP
27	CC	120	ASP
27	CC	124	LYS
27	CC	129	LEU
27	CC	138	SER
27	CC	153	LEU
27	CC	155	ARG
27	CC	167	ASP
27	CC	173	LEU
27	CC	176	ARG
27	CC	196	ASN
27	CC	198	GLU
27	CC	211	ARG
27	CC	224	MET
27	CC	225	ASN
27	CC	256	THR
27	CC	259	ASN
27	CC	262	THR
27	CC	268	ARG
27	CC	270	ARG
28	CD	12	THR
28	CD	13	ARG
28	CD	18	ASP
28	CD	26	VAL
28	CD	28	GLU
28	CD	32	ASN
28	CD	35	THR
28	CD	48	ILE
28	CD	77	ARG
28	CD	83	ARG
28	CD	89	GLU
28	CD	95	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	CD	97	SER
28	CD	100	LEU
28	CD	105	LYS
28	CD	121	THR
28	CD	129	THR
28	CD	139	SER
28	CD	159	LYS
28	CD	176	ASP
28	CD	177	VAL
29	CE	7	ASP
29	CE	12	LEU
29	CE	40	ARG
29	CE	47	LYS
29	CE	55	SER
29	CE	72	SER
29	CE	77	ILE
29	CE	80	SER
29	CE	90	GLN
29	CE	97	ASN
29	CE	108	ILE
29	CE	111	GLU
29	CE	113	VAL
29	CE	123	LYS
29	CE	149	ILE
29	CE	150	THR
29	CE	159	LEU
29	CE	163	ASN
29	CE	164	LEU
29	CE	170	ARG
29	CE	176	ASP
29	CE	189	THR
30	CF	2	LYS
30	CF	13	LYS
30	CF	18	GLU
30	CF	20	ASN
30	CF	24	VAL
30	CF	26	GLN
30	CF	30	VAL
30	CF	34	THR
30	CF	35	LEU
30	CF	41	GLU
30	CF	43	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	CF	49	LEU
30	CF	50	ASP
30	CF	55	ASP
30	CF	56	LEU
30	CF	60	SER
30	CF	67	THR
30	CF	77	LYS
30	CF	82	TYR
30	CF	91	ARG
30	CF	93	GLU
30	CF	94	ARG
30	CF	100	GLU
30	CF	104	THR
30	CF	107	VAL
30	CF	120	SER
30	CF	124	ARG
30	CF	129	MET
30	CF	131	VAL
30	CF	146	ASP
30	CF	149	ARG
30	CF	151	LEU
30	CF	154	THR
30	CF	157	THR
30	CF	173	ASP
30	CF	176	PHE
31	CG	5	LYS
31	CG	9	VAL
31	CG	14	VAL
31	CG	22	VAL
31	CG	31	GLU
31	CG	41	GLU
31	CG	42	VAL
31	CG	47	ASN
31	CG	49	LEU
31	CG	68	ARG
31	CG	76	ILE
31	CG	91	VAL
31	CG	100	ASN
31	CG	105	SER
31	CG	123	GLU
31	CG	148	ARG
31	CG	151	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	CG	154	GLU
31	CG	155	PRO
31	CG	159	LYS
31	CG	165	ASP
31	CG	167	VAL
31	CG	170	THR
32	CH	1	MET
32	CH	3	VAL
32	CH	7	ASP
32	CH	15	LEU
32	CH	18	GLN
32	CH	19	VAL
32	CH	25	TYR
32	CH	27	ARG
32	CH	37	VAL
32	CH	48	GLU
32	CH	50	ARG
32	CH	60	GLU
32	CH	72	ILE
32	CH	75	LEU
32	CH	76	GLU
32	CH	77	THR
32	CH	78	VAL
32	CH	87	GLU
32	CH	90	LEU
32	CH	112	LYS
32	CH	113	SER
32	CH	116	ARG
32	CH	123	ARG
32	CH	124	THR
32	CH	131	SER
33	CI	2	LYS
33	CI	5	GLN
33	CI	7	TYR
33	CI	8	VAL
33	CI	10	LEU
33	CI	11	GLN
33	CI	16	MET
33	CI	27	LEU
33	CI	30	GLN
33	CI	33	ASN
33	CI	37	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	CI	44	LYS
33	CI	46	ASP
33	CI	49	GLU
33	CI	56	VAL
33	CI	61	TYR
33	CI	66	PHE
33	CI	68	PHE
33	CI	71	LYS
33	CI	81	LYS
33	CI	85	ILE
33	CI	86	LYS
33	CI	95	ASP
33	CI	96	LYS
33	CI	100	ILE
33	CI	101	SER
33	CI	102	ARG
33	CI	107	GLU
33	CI	126	ARG
33	CI	133	ARG
33	CI	135	MET
34	CJ	1	MET
34	CJ	4	PHE
34	CJ	5	THR
34	CJ	9	GLU
34	CJ	17	VAL
34	CJ	23	LYS
34	CJ	30	THR
34	CJ	43	GLU
34	CJ	61	LYS
34	CJ	64	VAL
34	CJ	65	THR
34	CJ	69	ARG
34	CJ	70	THR
34	CJ	81	ILE
34	CJ	100	VAL
34	CJ	101	ILE
34	CJ	131	ASN
34	CJ	135	GLN
34	CJ	142	ILE
35	CK	8	LEU
35	CK	19	VAL
35	CK	20	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	CK	28	SER
35	CK	31	ARG
35	CK	32	TYR
35	CK	42	THR
35	CK	58	LEU
35	CK	66	LYS
35	CK	77	ILE
35	CK	80	ASP
35	CK	82	ASN
35	CK	88	ASN
35	CK	92	GLU
35	CK	103	VAL
35	CK	107	LEU
35	CK	108	ARG
35	CK	121	GLU
36	CL	2	ARG
36	CL	5	THR
36	CL	13	LYS
36	CL	19	LEU
36	CL	21	ARG
36	CL	27	LEU
36	CL	33	ARG
36	CL	40	SER
36	CL	47	ARG
36	CL	67	THR
36	CL	69	ARG
36	CL	82	LEU
36	CL	85	VAL
36	CL	86	GLU
36	CL	92	LEU
36	CL	93	ASN
36	CL	95	LEU
36	CL	100	ILE
36	CL	115	GLU
36	CL	125	LEU
36	CL	144	GLU
37	CM	7	THR
37	CM	12	MET
37	CM	16	ARG
37	CM	25	ASP
37	CM	30	SER
37	CM	40	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	CM	47	GLU
37	CM	50	ARG
37	CM	55	ARG
37	CM	60	GLN
37	CM	69	PRO
37	CM	70	ASP
37	CM	74	THR
37	CM	100	LYS
37	CM	108	VAL
37	CM	110	GLU
37	CM	111	GLU
37	CM	115	GLU
37	CM	129	THR
37	CM	131	VAL
37	CM	134	THR
37	CM	135	VAL
38	CN	2	ARG
38	CN	6	SER
38	CN	13	ASN
38	CN	15	SER
38	CN	36	THR
38	CN	37	THR
38	CN	39	PRO
38	CN	48	VAL
38	CN	62	ASN
38	CN	65	LEU
38	CN	69	ARG
38	CN	70	THR
38	CN	71	ARG
38	CN	89	SER
38	CN	90	ARG
38	CN	114	GLU
38	CN	119	SER
39	CO	4	LYS
39	CO	9	ARG
39	CO	17	LYS
39	CO	25	ARG
39	CO	28	VAL
39	CO	38	GLN
39	CO	45	SER
39	CO	49	VAL
39	CO	62	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	CO	63	LYS
39	CO	65	THR
39	CO	74	VAL
39	CO	78	VAL
39	CO	88	LYS
39	CO	89	ASP
39	CO	111	ARG
39	CO	112	GLU
39	CO	115	LEU
40	CP	2	ASN
40	CP	3	ILE
40	CP	6	GLN
40	CP	15	ASP
40	CP	18	SER
40	CP	26	GLU
40	CP	31	VAL
40	CP	62	LYS
40	CP	67	GLU
40	CP	72	VAL
40	CP	74	GLN
40	CP	92	ARG
40	CP	93	LYS
40	CP	95	LYS
40	CP	102	ARG
40	CP	108	ARG
40	CP	109	ILE
40	CP	110	LYS
40	CP	111	GLU
40	CP	113	LEU
40	CP	114	ASN
41	CQ	3	VAL
41	CQ	5	ARG
41	CQ	7	VAL
41	CQ	8	ILE
41	CQ	10	ARG
41	CQ	16	ILE
41	CQ	17	LEU
41	CQ	18	LYS
41	CQ	33	VAL
41	CQ	39	ILE
41	CQ	50	ARG
41	CQ	58	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	CQ	91	ARG
42	CR	1	MET
42	CR	14	VAL
42	CR	20	VAL
42	CR	38	VAL
42	CR	39	LEU
42	CR	43	ASN
42	CR	46	GLU
42	CR	47	VAL
42	CR	48	LYS
42	CR	62	GLU
42	CR	64	VAL
42	CR	83	TYR
42	CR	85	LYS
42	CR	94	THR
43	CS	4	ILE
43	CS	6	LYS
43	CS	12	SER
43	CS	19	LEU
43	CS	35	ILE
43	CS	69	LEU
43	CS	81	SER
43	CS	97	LEU
43	CS	107	VAL
43	CS	109	ASP
44	CT	17	SER
44	CT	28	ASN
44	CT	30	ILE
44	CT	37	ASP
44	CT	39	THR
44	CT	49	LYS
44	CT	57	VAL
44	CT	60	THR
44	CT	77	ARG
44	CT	82	LYS
44	CT	91	GLN
45	CU	6	ARG
45	CU	7	ASP
45	CU	8	ASP
45	CU	11	ILE
45	CU	17	ASP
45	CU	20	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	CU	23	LYS
45	CU	25	LYS
45	CU	28	LEU
45	CU	30	SER
45	CU	33	VAL
45	CU	51	LEU
45	CU	60	LYS
45	CU	64	ILE
45	CU	67	SER
45	CU	71	ILE
45	CU	73	ASN
45	CU	85	ARG
45	CU	99	SER
46	CV	1	MET
46	CV	3	THR
46	CV	8	VAL
46	CV	10	LYS
46	CV	11	GLU
46	CV	19	ARG
46	CV	29	ILE
46	CV	43	ASP
46	CV	53	LYS
46	CV	61	LEU
46	CV	62	THR
46	CV	65	VAL
46	CV	70	ILE
46	CV	77	VAL
46	CV	90	ASP
47	CW	16	ARG
47	CW	25	GLU
47	CW	40	LYS
47	CW	60	ASP
47	CW	66	GLU
47	CW	77	SER
48	CX	4	CYS
48	CX	17	ARG
48	CX	21	LEU
48	CX	27	ARG
48	CX	36	ARG
48	CX	39	VAL
48	CX	40	GLU
48	CX	46	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	CX	58	ILE
48	CX	64	ASP
48	CX	76	LYS
49	CY	2	LYS
49	CY	6	LEU
49	CY	13	GLU
49	CY	16	THR
49	CY	22	LEU
49	CY	37	LEU
49	CY	44	LYS
49	CY	58	ASN
49	CY	59	GLU
50	CZ	2	LYS
50	CZ	20	LYS
50	CZ	24	LEU
50	CZ	31	ILE
50	CZ	38	GLU
50	CZ	47	ILE
50	CZ	56	VAL
50	CZ	58	GLU
51	C0	9	ARG
51	C0	10	SER
51	C0	19	ASP
51	C0	35	GLU
51	C0	39	ARG
51	C0	52	LYS
52	C1	5	ARG
52	C1	7	LYS
52	C1	9	LYS
52	C1	34	GLU
52	C1	42	VAL
52	C1	46	VAL
52	C1	50	GLU
53	C2	1	MET
53	C2	3	ARG
53	C2	12	ARG
53	C2	22	MET
53	C2	25	LYS
53	C2	42	LEU
54	C3	16	THR
54	C3	29	ARG
54	C3	30	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	C4	2	LYS
55	C4	3	VAL
55	C4	6	SER
55	C4	16	ILE
55	C4	17	VAL
55	C4	20	ASP
27	DC	5	CYS
27	DC	8	THR
27	DC	19	VAL
27	DC	20	ASN
27	DC	27	LYS
27	DC	35	LYS
27	DC	47	ARG
27	DC	50	THR
27	DC	51	ARG
27	DC	52	HIS
27	DC	58	LYS
27	DC	62	ARG
27	DC	63	ILE
27	DC	69	ASN
27	DC	73	ILE
27	DC	79	ARG
27	DC	87	SER
27	DC	93	VAL
27	DC	103	ILE
27	DC	104	LEU
27	DC	110	LYS
27	DC	113	ASP
27	DC	117	SER
27	DC	153	LEU
27	DC	155	ARG
27	DC	159	THR
27	DC	167	ASP
27	DC	173	LEU
27	DC	174	ARG
27	DC	181	ARG
27	DC	188	ARG
27	DC	200	MET
27	DC	201	LEU
27	DC	204	LEU
27	DC	212	TRP
27	DC	215	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DC	235	GLU
27	DC	250	GLN
27	DC	255	LYS
27	DC	261	ARG
27	DC	264	LYS
27	DC	266	ILE
27	DC	271	SER
28	DD	1	MET
28	DD	11	MET
28	DD	18	ASP
28	DD	33	ARG
28	DD	42	ASN
28	DD	43	ASP
28	DD	49	GLN
28	DD	50	VAL
28	DD	52	THR
28	DD	55	LYS
28	DD	60	VAL
28	DD	73	VAL
28	DD	80	TRP
28	DD	84	LEU
28	DD	86	GLU
28	DD	91	THR
28	DD	95	SER
28	DD	99	GLU
28	DD	100	LEU
28	DD	103	ASP
28	DD	107	VAL
28	DD	136	ASN
28	DD	141	ARG
28	DD	150	GLN
28	DD	170	VAL
28	DD	172	VAL
28	DD	177	VAL
28	DD	179	ARG
28	DD	189	VAL
29	DE	22	ASP
29	DE	32	VAL
29	DE	33	VAL
29	DE	44	ARG
29	DE	63	LYS
29	DE	65	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	DE	69	ARG
29	DE	77	ILE
29	DE	78	TRP
29	DE	88	ARG
29	DE	90	GLN
29	DE	93	SER
29	DE	100	MET
29	DE	108	ILE
29	DE	109	LEU
29	DE	113	VAL
29	DE	118	LEU
29	DE	120	VAL
29	DE	124	PHE
29	DE	127	GLU
29	DE	130	LYS
29	DE	131	THR
29	DE	149	ILE
29	DE	154	ASP
29	DE	158	PHE
29	DE	159	LEU
29	DE	163	ASN
29	DE	164	LEU
29	DE	168	ASP
29	DE	170	ARG
29	DE	171	ASP
29	DE	173	THR
29	DE	178	VAL
29	DE	179	SER
29	DE	181	ILE
29	DE	184	ASP
29	DE	189	THR
29	DE	198	GLU
29	DE	200	LEU
30	DF	3	LEU
30	DF	6	TYR
30	DF	9	ASP
30	DF	13	LYS
30	DF	19	PHE
30	DF	20	ASN
30	DF	25	MET
30	DF	30	VAL
30	DF	34	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	DF	35	LEU
30	DF	43	ILE
30	DF	51	ASN
30	DF	63	LYS
30	DF	65	LEU
30	DF	73	VAL
30	DF	79	ARG
30	DF	80	GLN
30	DF	82	TYR
30	DF	89	THR
30	DF	91	ARG
30	DF	94	ARG
30	DF	102	LEU
30	DF	103	ILE
30	DF	105	ILE
30	DF	113	PHE
30	DF	124	ARG
30	DF	132	ARG
30	DF	140	ILE
30	DF	146	ASP
30	DF	148	VAL
30	DF	149	ARG
30	DF	156	THR
30	DF	173	ASP
30	DF	177	ARG
31	DG	10	VAL
31	DG	15	ASP
31	DG	28	LYS
31	DG	43	LYS
31	DG	50	THR
31	DG	73	SER
31	DG	83	THR
31	DG	88	LEU
31	DG	103	ASN
31	DG	116	LEU
31	DG	128	THR
31	DG	131	VAL
31	DG	132	LEU
31	DG	151	ARG
31	DG	154	GLU
31	DG	159	LYS
31	DG	165	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DG	171	LYS
32	DH	7	ASP
32	DH	12	LEU
32	DH	14	SER
32	DH	15	LEU
32	DH	42	LYS
32	DH	48	GLU
32	DH	50	ARG
32	DH	54	LEU
32	DH	60	GLU
32	DH	61	VAL
32	DH	62	LEU
32	DH	72	ILE
32	DH	76	GLU
32	DH	77	THR
32	DH	79	THR
32	DH	82	SER
32	DH	86	ASP
32	DH	87	GLU
32	DH	129	GLU
32	DH	131	SER
32	DH	136	SER
32	DH	145	ASN
33	DI	2	LYS
33	DI	3	LYS
33	DI	7	TYR
33	DI	10	LEU
33	DI	11	GLN
33	DI	16	MET
33	DI	23	VAL
33	DI	30	GLN
33	DI	39	LYS
33	DI	48	ILE
33	DI	50	LYS
33	DI	54	ILE
33	DI	67	THR
33	DI	68	PHE
33	DI	71	LYS
33	DI	86	LYS
33	DI	94	LYS
33	DI	95	ASP
33	DI	96	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	DI	102	ARG
33	DI	104	GLN
33	DI	107	GLU
33	DI	124	MET
33	DI	126	ARG
33	DI	129	GLU
33	DI	133	ARG
34	DJ	1	MET
34	DJ	2	LYS
34	DJ	3	THR
34	DJ	11	VAL
34	DJ	30	THR
34	DJ	37	ARG
34	DJ	39	LYS
34	DJ	40	HIS
34	DJ	43	GLU
34	DJ	58	ASN
34	DJ	64	VAL
34	DJ	72	LYS
34	DJ	75	TYR
34	DJ	81	ILE
34	DJ	84	ILE
34	DJ	86	GLN
34	DJ	111	LYS
34	DJ	119	PHE
34	DJ	131	ASN
34	DJ	140	LEU
34	DJ	142	ILE
35	DK	1	MET
35	DK	40	LYS
35	DK	47	ILE
35	DK	49	ARG
35	DK	53	LYS
35	DK	58	LEU
35	DK	61	VAL
35	DK	67	LYS
35	DK	70	ARG
35	DK	73	ASP
35	DK	80	ASP
35	DK	90	ASN
35	DK	92	GLU
35	DK	95	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	DK	97	THR
35	DK	104	THR
35	DK	116	ILE
35	DK	118	LEU
36	DL	4	ASN
36	DL	5	THR
36	DL	6	LEU
36	DL	12	SER
36	DL	14	LYS
36	DL	27	LEU
36	DL	42	SER
36	DL	46	VAL
36	DL	47	ARG
36	DL	48	ARG
36	DL	60	ARG
36	DL	74	THR
36	DL	82	LEU
36	DL	85	VAL
36	DL	94	THR
36	DL	95	LEU
36	DL	100	ILE
36	DL	103	ILE
36	DL	107	PHE
36	DL	118	THR
36	DL	126	ARG
37	DM	14	LYS
37	DM	20	LEU
37	DM	33	LEU
37	DM	46	ILE
37	DM	54	THR
37	DM	66	ARG
37	DM	69	PRO
37	DM	70	ASP
37	DM	74	THR
37	DM	100	LYS
37	DM	108	VAL
37	DM	111	GLU
37	DM	118	LYS
37	DM	124	LEU
37	DM	126	ILE
37	DM	127	LYS
37	DM	128	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	DM	129	THR
37	DM	130	PHE
37	DM	132	THR
37	DM	134	THR
37	DM	136	MET
38	DN	6	SER
38	DN	8	ARG
38	DN	14	SER
38	DN	20	MET
38	DN	22	ARG
38	DN	24	MET
38	DN	34	ILE
38	DN	51	LEU
38	DN	63	ARG
38	DN	69	ARG
38	DN	70	THR
38	DN	71	ARG
38	DN	74	GLU
38	DN	76	VAL
38	DN	79	LEU
38	DN	81	ASN
38	DN	82	GLU
38	DN	90	ARG
38	DN	95	THR
38	DN	116	VAL
39	DO	8	ILE
39	DO	9	ARG
39	DO	15	ARG
39	DO	24	THR
39	DO	26	LEU
39	DO	28	VAL
39	DO	45	SER
39	DO	48	LEU
39	DO	52	SER
39	DO	67	ASN
39	DO	78	VAL
39	DO	88	LYS
39	DO	89	ASP
39	DO	95	SER
39	DO	100	HIS
39	DO	102	ARG
39	DO	103	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	DO	106	LEU
39	DO	116	GLN
39	DO	117	PHE
40	DP	1	SER
40	DP	6	GLN
40	DP	7	LEU
40	DP	18	SER
40	DP	25	VAL
40	DP	31	VAL
40	DP	33	GLU
40	DP	36	LYS
40	DP	50	ARG
40	DP	51	ASN
40	DP	54	LEU
40	DP	56	SER
40	DP	63	ILE
40	DP	65	ASN
40	DP	72	VAL
40	DP	74	GLN
40	DP	79	VAL
40	DP	80	VAL
40	DP	84	SER
40	DP	92	ARG
40	DP	93	LYS
40	DP	109	ILE
40	DP	113	LEU
41	DQ	2	ARG
41	DQ	7	VAL
41	DQ	8	ILE
41	DQ	10	ARG
41	DQ	21	LYS
41	DQ	32	ARG
41	DQ	40	LYS
41	DQ	50	ARG
41	DQ	52	ARG
41	DQ	86	SER
41	DQ	91	ARG
41	DQ	93	ILE
41	DQ	99	VAL
41	DQ	108	LEU
41	DQ	110	GLU
42	DR	10	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	DR	12	HIS
42	DR	14	VAL
42	DR	18	GLN
42	DR	26	ASP
42	DR	31	GLU
42	DR	38	VAL
42	DR	46	GLU
42	DR	47	VAL
42	DR	48	LYS
42	DR	51	VAL
42	DR	53	PHE
42	DR	58	VAL
42	DR	72	VAL
42	DR	84	ARG
42	DR	86	GLN
42	DR	94	THR
42	DR	99	THR
43	DS	1	MET
43	DS	2	GLU
43	DS	4	ILE
43	DS	6	LYS
43	DS	9	HIS
43	DS	19	LEU
43	DS	28	LYS
43	DS	39	THR
43	DS	40	ASN
43	DS	41	LYS
43	DS	47	VAL
43	DS	62	ASP
43	DS	66	ILE
43	DS	67	ASP
43	DS	68	ASP
43	DS	80	PRO
43	DS	81	SER
43	DS	86	MET
43	DS	96	ILE
43	DS	97	LEU
43	DS	104	THR
43	DS	109	ASP
44	DT	3	ARG
44	DT	5	GLU
44	DT	7	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	DT	16	VAL
44	DT	18	GLU
44	DT	25	GLU
44	DT	26	LYS
44	DT	28	ASN
44	DT	30	ILE
44	DT	31	VAL
44	DT	32	LEU
44	DT	34	VAL
44	DT	39	THR
44	DT	50	LEU
44	DT	52	GLU
44	DT	60	THR
44	DT	61	LEU
44	DT	70	HIS
44	DT	77	ARG
44	DT	82	LYS
44	DT	86	THR
44	DT	89	GLU
44	DT	91	GLN
45	DU	5	ARG
45	DU	6	ARG
45	DU	14	THR
45	DU	24	VAL
45	DU	25	LYS
45	DU	26	ASN
45	DU	27	VAL
45	DU	28	LEU
45	DU	30	SER
45	DU	39	ASN
45	DU	44	HIS
45	DU	45	GLN
45	DU	52	ASN
45	DU	53	GLN
45	DU	59	GLU
45	DU	67	SER
45	DU	71	ILE
45	DU	92	VAL
45	DU	98	ASN
45	DU	99	SER
46	DV	1	MET
46	DV	8	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
46	DV	29	ILE
46	DV	40	ILE
46	DV	41	GLU
46	DV	42	LEU
46	DV	45	ASP
46	DV	50	MET
46	DV	53	LYS
46	DV	55	GLU
46	DV	61	LEU
46	DV	65	VAL
46	DV	70	ILE
46	DV	86	LEU
46	DV	87	GLN
57	DW	16	ARG
57	DW	25	GLU
57	DW	26	SER
57	DW	37	ARG
57	DW	66	GLU
57	DW	73	ARG
57	DW	77	SER
57	DW	79	GLU
48	DX	2	ARG
48	DX	9	LYS
48	DX	24	THR
48	DX	32	LEU
48	DX	40	GLU
48	DX	42	GLU
48	DX	47	THR
48	DX	50	VAL
48	DX	65	THR
48	DX	70	LEU
48	DX	73	ARG
49	DY	2	LYS
49	DY	6	LEU
49	DY	8	GLU
49	DY	12	GLU
49	DY	13	GLU
49	DY	15	ASN
49	DY	16	THR
49	DY	29	ARG
49	DY	37	LEU
49	DY	40	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	DY	55	THR
49	DY	57	LEU
50	DZ	2	LYS
50	DZ	9	THR
50	DZ	10	ARG
50	DZ	15	ARG
50	DZ	24	LEU
50	DZ	30	ARG
50	DZ	31	ILE
50	DZ	35	VAL
50	DZ	40	THR
50	DZ	44	ARG
51	D0	22	THR
51	D0	24	VAL
51	D0	27	LEU
51	D0	39	ARG
51	D0	45	ASP
51	D0	51	ARG
52	D1	4	ILE
52	D1	9	LYS
52	D1	24	LYS
52	D1	27	ARG
52	D1	34	GLU
52	D1	37	LYS
52	D1	42	VAL
52	D1	50	GLU
53	D2	1	MET
53	D2	4	THR
53	D2	24	THR
53	D2	41	ARG
53	D2	44	VAL
54	D3	13	PHE
54	D3	29	ARG
54	D3	30	HIS
55	D4	2	LYS
55	D4	3	VAL
55	D4	4	ARG
55	D4	12	ARG
55	D4	20	ASP
55	D4	26	ILE
55	D4	35	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (211) such

sidechains are listed below:

Mol	Chain	Res	Type
2	AB	14	HIS
2	AB	50	ASN
2	AB	189	ASN
3	AC	5	HIS
4	AD	53	GLN
4	AD	115	GLN
4	AD	119	HIS
4	AD	130	ASN
4	AD	163	GLN
4	AD	195	ASN
4	AD	197	HIS
5	AE	11	GLN
5	AE	72	ASN
5	AE	81	GLN
5	AE	82	HIS
5	AE	88	HIS
5	AE	121	ASN
5	AE	131	ASN
6	AF	3	HIS
7	AG	141	HIS
9	AI	3	ASN
9	AI	24	ASN
9	AI	49	GLN
10	AJ	56	HIS
11	AK	21	HIS
11	AK	23	HIS
11	AK	108	ASN
11	AK	118	ASN
13	AM	90	HIS
15	AO	37	HIS
15	AO	61	GLN
16	AP	18	GLN
17	AQ	8	GLN
18	AR	53	GLN
19	AS	51	HIS
19	AS	56	HIS
20	AT	20	ASN
20	AT	47	GLN
20	AT	51	ASN
20	AT	74	HIS
20	AT	83	ASN
24	AY	54	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BB	17	HIS
2	BB	38	HIS
2	BB	50	ASN
2	BB	93	HIS
2	BB	169	HIS
2	BB	202	ASN
3	BC	5	HIS
3	BC	122	GLN
3	BC	175	HIS
4	BD	119	HIS
4	BD	139	ASN
4	BD	197	HIS
5	BE	60	GLN
5	BE	96	GLN
6	BF	17	GLN
6	BF	52	ASN
6	BF	63	ASN
7	BG	67	ASN
7	BG	129	ASN
8	BH	17	GLN
8	BH	66	GLN
9	BI	24	ASN
9	BI	125	GLN
10	BJ	20	GLN
10	BJ	64	GLN
10	BJ	70	HIS
10	BJ	99	GLN
11	BK	14	GLN
11	BK	23	HIS
11	BK	27	ASN
11	BK	39	ASN
12	BL	4	ASN
12	BL	19	ASN
12	BL	58	ASN
12	BL	72	ASN
13	BM	90	HIS
14	BN	71	HIS
15	BO	34	GLN
15	BO	61	GLN
16	BP	26	ASN
16	BP	79	ASN
17	BQ	8	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	BQ	30	HIS
17	BQ	46	HIS
18	BR	51	GLN
18	BR	53	GLN
19	BS	56	HIS
19	BS	68	HIS
20	BT	19	HIS
20	BT	20	ASN
20	BT	60	GLN
20	BT	67	HIS
27	CC	85	ASN
27	CC	116	GLN
27	CC	133	ASN
27	CC	141	HIS
28	CD	67	HIS
28	CD	136	ASN
29	CE	90	GLN
29	CE	136	GLN
29	CE	163	ASN
30	CF	4	HIS
30	CF	20	ASN
30	CF	36	ASN
30	CF	51	ASN
30	CF	62	GLN
31	CG	21	GLN
31	CG	72	ASN
31	CG	100	ASN
31	CG	114	HIS
31	CG	127	GLN
32	CH	43	ASN
32	CH	128	HIS
32	CH	135	HIS
33	CI	11	GLN
33	CI	18	ASN
34	CJ	58	ASN
34	CJ	77	HIS
34	CJ	80	HIS
34	CJ	138	GLN
35	CK	3	GLN
35	CK	5	GLN
35	CK	13	ASN
35	CK	90	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	CL	35	HIS
37	CM	13	HIS
37	CM	60	GLN
38	CN	13	ASN
38	CN	31	HIS
38	CN	62	ASN
39	CO	29	HIS
40	CP	2	ASN
40	CP	11	GLN
40	CP	40	GLN
40	CP	65	ASN
42	CR	12	HIS
42	CR	43	ASN
42	CR	87	GLN
42	CR	89	HIS
43	CS	9	HIS
43	CS	57	ASN
45	CU	68	ASN
45	CU	73	ASN
48	CX	19	HIS
49	CY	25	GLN
49	CY	27	ASN
49	CY	58	ASN
51	C0	3	GLN
51	C0	41	HIS
52	C1	18	HIS
52	C1	45	HIS
54	C3	30	HIS
27	DC	24	HIS
27	DC	141	HIS
27	DC	250	GLN
28	DD	42	ASN
28	DD	58	ASN
28	DD	134	HIS
28	DD	136	ASN
28	DD	150	GLN
29	DE	90	GLN
29	DE	92	HIS
29	DE	156	ASN
29	DE	163	ASN
29	DE	195	GLN
30	DF	20	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	DF	22	ASN
30	DF	36	ASN
30	DF	62	GLN
31	DG	29	ASN
31	DG	44	HIS
31	DG	72	ASN
31	DG	103	ASN
32	DH	128	HIS
32	DH	135	HIS
33	DI	11	GLN
33	DI	42	ASN
33	DI	93	ASN
34	DJ	58	ASN
34	DJ	86	GLN
35	DK	5	GLN
35	DK	90	ASN
36	DL	4	ASN
36	DL	35	HIS
37	DM	97	GLN
40	DP	51	ASN
40	DP	65	ASN
40	DP	74	GLN
41	DQ	36	GLN
42	DR	86	GLN
43	DS	9	HIS
43	DS	57	ASN
44	DT	91	GLN
45	DU	26	ASN
45	DU	53	GLN
46	DV	24	ASN
46	DV	75	GLN
46	DV	87	GLN
57	DW	53	HIS
48	DX	15	ASN
49	DY	20	ASN
49	DY	36	GLN
52	D1	18	HIS
52	D1	25	ASN
52	D1	45	HIS
53	D2	13	ASN
53	D2	26	ASN
53	D2	29	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	D4	35	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1537/1539 (99%)	441 (28%)	0
1	BA	1538/1539 (99%)	445 (28%)	0
22	AV	75/76 (98%)	29 (38%)	0
22	BV	75/76 (98%)	15 (20%)	0
23	AX	14/16 (87%)	5 (35%)	0
23	BX	15/16 (93%)	4 (26%)	0
25	CA	2895/2903 (99%)	747 (25%)	0
25	DA	2893/2903 (99%)	764 (26%)	0
26	CB	118/119 (99%)	24 (20%)	0
56	DB	117/118 (99%)	34 (29%)	0
All	All	9277/9305 (99%)	2508 (27%)	0

All (2508) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	6	G
1	AA	7	A
1	AA	9	G
1	AA	12	U
1	AA	13	U
1	AA	15	G
1	AA	22	G
1	AA	28	A
1	AA	32	A
1	AA	39	G
1	AA	44	A
1	AA	45	G
1	AA	47	C
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	62	U
1	AA	67	C
1	AA	69	G
1	AA	70	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	71	A
1	AA	72	A
1	AA	75	G
1	AA	76	G
1	AA	77	A
1	AA	80	A
1	AA	82	G
1	AA	83	C
1	AA	84	U
1	AA	85	U
1	AA	86	G
1	AA	89	U
1	AA	90	C
1	AA	91	U
1	AA	92	U
1	AA	94	G
1	AA	95	C
1	AA	97	G
1	AA	108	G
1	AA	109	A
1	AA	111	G
1	AA	116	A
1	AA	117	G
1	AA	121	U
1	AA	122	G
1	AA	130	A
1	AA	131	A
1	AA	137	U
1	AA	139	A
1	AA	142	G
1	AA	143	A
1	AA	144	G
1	AA	149	A
1	AA	159	G
1	AA	162	A
1	AA	163	C
1	AA	164	G
1	AA	168	G
1	AA	176	C
1	AA	181	A
1	AA	182	A
1	AA	183	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	195	A
1	AA	200	G
1	AA	204	G
1	AA	205	A
1	AA	209	U
1	AA	210	C
1	AA	213	G
1	AA	220	G
1	AA	226	G
1	AA	240	G
1	AA	245	U
1	AA	247	G
1	AA	251	G
1	AA	260	G
1	AA	262	A
1	AA	263	A
1	AA	266	G
1	AA	267	C
1	AA	278	G
1	AA	279	A
1	AA	280	C
1	AA	289	G
1	AA	290	C
1	AA	300	A
1	AA	308	C
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	331	G
1	AA	332	G
1	AA	346	G
1	AA	347	G
1	AA	352	C
1	AA	354	G
1	AA	359	G
1	AA	367	U
1	AA	370	C
1	AA	371	A
1	AA	372	C
1	AA	374	A
1	AA	382	A
1	AA	383	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	384	G
1	AA	391	G
1	AA	398	U
1	AA	402	G
1	AA	403	C
1	AA	406	G
1	AA	407	U
1	AA	409	U
1	AA	410	G
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	418	C
1	AA	420	U
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	433	G
1	AA	435	A
1	AA	439	U
1	AA	440	C
1	AA	445	G
1	AA	453	G
1	AA	456	A
1	AA	457	G
1	AA	458	U
1	AA	459	A
1	AA	460	A
1	AA	463	U
1	AA	465	A
1	AA	466	A
1	AA	467	U
1	AA	468	A
1	AA	474	G
1	AA	481	G
1	AA	482	A
1	AA	484	G
1	AA	485	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	486	U
1	AA	490	C
1	AA	491	G
1	AA	492	C
1	AA	494	G
1	AA	495	A
1	AA	497	G
1	AA	498	A
1	AA	500	G
1	AA	501	C
1	AA	509	A
1	AA	511	C
1	AA	514	C
1	AA	515	G
1	AA	518	C
1	AA	521	G
1	AA	527	G
1	AA	530	G
1	AA	531	U
1	AA	532	A
1	AA	534	U
1	AA	547	A
1	AA	550	G
1	AA	559	A
1	AA	562	U
1	AA	564	C
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	576	C
1	AA	578	C
1	AA	596	A
1	AA	605	U
1	AA	611	C
1	AA	615	G
1	AA	619	U
1	AA	625	U
1	AA	630	A
1	AA	631	C
1	AA	640	A
1	AA	644	U
1	AA	650	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	652	U
1	AA	653	U
1	AA	656	G
1	AA	661	G
1	AA	665	A
1	AA	686	U
1	AA	695	A
1	AA	702	A
1	AA	703	G
1	AA	707	U
1	AA	720	C
1	AA	721	G
1	AA	723	U
1	AA	724	G
1	AA	731	G
1	AA	733	G
1	AA	755	G
1	AA	756	C
1	AA	764	C
1	AA	773	G
1	AA	774	G
1	AA	776	G
1	AA	777	A
1	AA	778	G
1	AA	786	G
1	AA	787	A
1	AA	788	U
1	AA	792	A
1	AA	793	U
1	AA	794	A
1	AA	799	G
1	AA	804	U
1	AA	805	C
1	AA	815	A
1	AA	817	C
1	AA	821	G
1	AA	828	U
1	AA	829	G
1	AA	833	G
1	AA	841	C
1	AA	842	U
1	AA	843	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	845	A
1	AA	846	G
1	AA	849	G
1	AA	854	U
1	AA	859	G
1	AA	860	A
1	AA	869	G
1	AA	883	C
1	AA	890	G
1	AA	896	C
1	AA	900	A
1	AA	902	G
1	AA	910	C
1	AA	912	C
1	AA	914	A
1	AA	919	A
1	AA	926	G
1	AA	927	G
1	AA	932	C
1	AA	934	C
1	AA	935	A
1	AA	938	A
1	AA	946	A
1	AA	960	U
1	AA	963	G
1	AA	964	A
1	AA	966	G
1	AA	969	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	979	C
1	AA	982	U
1	AA	983	A
1	AA	986	U
1	AA	989	U
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1002	G
1	AA	1004	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1007	U
1	AA	1008	U
1	AA	1016	A
1	AA	1017	U
1	AA	1019	A
1	AA	1021	A
1	AA	1022	A
1	AA	1025	U
1	AA	1026	G
1	AA	1027	C
1	AA	1028	C
1	AA	1030	U
1	AA	1031	C
1	AA	1032	G
1	AA	1033	G
1	AA	1034	G
1	AA	1035	A
1	AA	1036	A
1	AA	1037	C
1	AA	1039	G
1	AA	1043	G
1	AA	1044	A
1	AA	1049	U
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1056	U
1	AA	1058	G
1	AA	1063	C
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1114	C
1	AA	1115	U
1	AA	1118	U
1	AA	1124	G
1	AA	1127	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1133	G
1	AA	1134	G
1	AA	1135	U
1	AA	1136	C
1	AA	1137	C
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1142	G
1	AA	1145	A
1	AA	1146	A
1	AA	1152	A
1	AA	1157	A
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1164	G
1	AA	1166	G
1	AA	1167	A
1	AA	1168	U
1	AA	1169	A
1	AA	1181	G
1	AA	1182	G
1	AA	1183	U
1	AA	1184	G
1	AA	1187	G
1	AA	1188	A
1	AA	1190	G
1	AA	1191	A
1	AA	1192	C
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1203	C
1	AA	1212	U
1	AA	1213	A
1	AA	1215	G
1	AA	1224	U
1	AA	1227	A
1	AA	1228	C
1	AA	1235	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1238	A
1	AA	1239	A
1	AA	1240	U
1	AA	1256	A
1	AA	1257	A
1	AA	1259	C
1	AA	1260	G
1	AA	1271	A
1	AA	1272	G
1	AA	1275	A
1	AA	1280	A
1	AA	1284	C
1	AA	1285	A
1	AA	1286	U
1	AA	1287	A
1	AA	1293	C
1	AA	1294	G
1	AA	1297	G
1	AA	1299	A
1	AA	1300	G
1	AA	1302	C
1	AA	1303	C
1	AA	1304	G
1	AA	1305	G
1	AA	1317	C
1	AA	1318	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1326	U
1	AA	1329	A
1	AA	1330	U
1	AA	1332	A
1	AA	1334	G
1	AA	1336	C
1	AA	1337	G
1	AA	1338	G
1	AA	1340	A
1	AA	1341	U
1	AA	1346	A
1	AA	1352	C
1	AA	1353	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1354	U
1	AA	1357	A
1	AA	1358	U
1	AA	1363	A
1	AA	1365	G
1	AA	1368	A
1	AA	1378	C
1	AA	1379	G
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1414	U
1	AA	1418	A
1	AA	1426	G
1	AA	1427	C
1	AA	1429	A
1	AA	1430	A
1	AA	1432	G
1	AA	1433	A
1	AA	1441	A
1	AA	1443	C
1	AA	1446	A
1	AA	1448	C
1	AA	1452	C
1	AA	1453	G
1	AA	1455	G
1	AA	1491	G
1	AA	1492	A
1	AA	1493	A
1	AA	1497	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1526	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
1	AA	1533	C
1	AA	1534	A
1	AA	1535	C
1	AA	1539	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	AV	8	U
22	AV	10	G
22	AV	13	C
22	AV	16	U
22	AV	17	C
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	22	G
22	AV	26	A
22	AV	33	U
22	AV	36	A
22	AV	37	A
22	AV	38	A
22	AV	44	G
22	AV	45	U
22	AV	46	G
22	AV	47	U
22	AV	48	C
22	AV	51	U
22	AV	57	G
22	AV	58	A
22	AV	59	U
22	AV	61	C
22	AV	64	A
22	AV	67	C
22	AV	74	C
22	AV	76	A
23	AX	11	U
23	AX	12	A
23	AX	13	A
23	AX	14	A
23	AX	19	U
1	BA	4	U
1	BA	5	U
1	BA	6	G
1	BA	7	A
1	BA	8	A
1	BA	9	G
1	BA	19	A
1	BA	32	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	39	G
1	BA	47	C
1	BA	48	C
1	BA	51	A
1	BA	52	C
1	BA	62	U
1	BA	63	C
1	BA	68	G
1	BA	70	U
1	BA	71	A
1	BA	74	A
1	BA	78	A
1	BA	81	A
1	BA	83	C
1	BA	84	U
1	BA	85	U
1	BA	87	C
1	BA	88	U
1	BA	89	U
1	BA	91	U
1	BA	92	U
1	BA	97	G
1	BA	99	C
1	BA	102	G
1	BA	108	G
1	BA	116	A
1	BA	120	A
1	BA	121	U
1	BA	122	G
1	BA	127	G
1	BA	130	A
1	BA	131	A
1	BA	138	G
1	BA	142	G
1	BA	143	A
1	BA	144	G
1	BA	150	U
1	BA	151	A
1	BA	154	U
1	BA	155	A
1	BA	156	C
1	BA	157	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	159	G
1	BA	161	A
1	BA	163	C
1	BA	168	G
1	BA	176	C
1	BA	177	G
1	BA	179	A
1	BA	181	A
1	BA	182	A
1	BA	183	C
1	BA	184	G
1	BA	187	G
1	BA	189	A
1	BA	190	A
1	BA	193	C
1	BA	195	A
1	BA	197	A
1	BA	200	G
1	BA	201	G
1	BA	204	G
1	BA	205	A
1	BA	206	C
1	BA	207	C
1	BA	208	U
1	BA	209	U
1	BA	210	C
1	BA	211	G
1	BA	212	G
1	BA	213	G
1	BA	214	C
1	BA	223	A
1	BA	240	G
1	BA	244	U
1	BA	245	U
1	BA	247	G
1	BA	249	U
1	BA	251	G
1	BA	253	A
1	BA	266	G
1	BA	267	C
1	BA	269	C
1	BA	275	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	279	A
1	BA	289	G
1	BA	298	A
1	BA	308	C
1	BA	309	A
1	BA	317	U
1	BA	318	G
1	BA	320	A
1	BA	321	A
1	BA	328	C
1	BA	329	A
1	BA	330	C
1	BA	332	G
1	BA	333	U
1	BA	339	C
1	BA	341	C
1	BA	349	A
1	BA	352	C
1	BA	354	G
1	BA	367	U
1	BA	369	G
1	BA	370	C
1	BA	372	C
1	BA	373	A
1	BA	378	G
1	BA	383	A
1	BA	398	U
1	BA	406	G
1	BA	409	U
1	BA	411	A
1	BA	412	A
1	BA	413	G
1	BA	421	U
1	BA	422	C
1	BA	423	G
1	BA	429	U
1	BA	430	A
1	BA	436	C
1	BA	440	C
1	BA	456	A
1	BA	458	U
1	BA	461	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	462	G
1	BA	463	U
1	BA	464	U
1	BA	466	A
1	BA	467	U
1	BA	468	A
1	BA	469	C
1	BA	474	G
1	BA	477	C
1	BA	478	A
1	BA	481	G
1	BA	482	A
1	BA	484	G
1	BA	485	U
1	BA	486	U
1	BA	494	G
1	BA	495	A
1	BA	497	G
1	BA	498	A
1	BA	499	A
1	BA	500	G
1	BA	506	G
1	BA	511	C
1	BA	518	C
1	BA	519	C
1	BA	524	G
1	BA	526	C
1	BA	527	G
1	BA	530	G
1	BA	531	U
1	BA	532	A
1	BA	533	A
1	BA	537	G
1	BA	545	C
1	BA	547	A
1	BA	550	G
1	BA	557	G
1	BA	558	G
1	BA	559	A
1	BA	560	A
1	BA	562	U
1	BA	563	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	568	G
1	BA	572	A
1	BA	573	A
1	BA	576	C
1	BA	579	A
1	BA	580	C
1	BA	581	G
1	BA	582	C
1	BA	595	A
1	BA	614	C
1	BA	627	G
1	BA	628	G
1	BA	633	G
1	BA	638	U
1	BA	641	U
1	BA	650	G
1	BA	653	U
1	BA	660	C
1	BA	665	A
1	BA	674	G
1	BA	675	A
1	BA	683	G
1	BA	684	U
1	BA	685	G
1	BA	694	A
1	BA	695	A
1	BA	700	G
1	BA	702	A
1	BA	710	G
1	BA	713	G
1	BA	718	A
1	BA	719	C
1	BA	720	C
1	BA	721	G
1	BA	723	U
1	BA	724	G
1	BA	731	G
1	BA	733	G
1	BA	734	G
1	BA	745	G
1	BA	752	G
1	BA	755	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	764	C
1	BA	765	G
1	BA	766	A
1	BA	776	G
1	BA	777	A
1	BA	778	G
1	BA	784	A
1	BA	785	G
1	BA	792	A
1	BA	793	U
1	BA	794	A
1	BA	798	U
1	BA	802	A
1	BA	805	C
1	BA	809	G
1	BA	815	A
1	BA	817	C
1	BA	819	A
1	BA	820	U
1	BA	827	U
1	BA	828	U
1	BA	833	G
1	BA	841	C
1	BA	842	U
1	BA	843	U
1	BA	844	G
1	BA	845	A
1	BA	846	G
1	BA	847	G
1	BA	849	G
1	BA	858	G
1	BA	870	U
1	BA	872	A
1	BA	874	G
1	BA	876	C
1	BA	885	G
1	BA	914	A
1	BA	918	A
1	BA	921	U
1	BA	926	G
1	BA	927	G
1	BA	930	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	934	C
1	BA	935	A
1	BA	958	A
1	BA	960	U
1	BA	966	G
1	BA	968	A
1	BA	969	A
1	BA	970	C
1	BA	971	G
1	BA	972	C
1	BA	975	A
1	BA	976	G
1	BA	977	A
1	BA	983	A
1	BA	988	G
1	BA	989	U
1	BA	992	U
1	BA	993	G
1	BA	995	C
1	BA	996	A
1	BA	1003	G
1	BA	1004	A
1	BA	1008	U
1	BA	1009	U
1	BA	1017	U
1	BA	1018	G
1	BA	1020	G
1	BA	1022	A
1	BA	1025	U
1	BA	1026	G
1	BA	1027	C
1	BA	1028	C
1	BA	1030	U
1	BA	1031	C
1	BA	1032	G
1	BA	1033	G
1	BA	1034	G
1	BA	1037	C
1	BA	1039	G
1	BA	1043	G
1	BA	1044	A
1	BA	1049	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	1050	G
1	BA	1054	C
1	BA	1056	U
1	BA	1057	G
1	BA	1059	C
1	BA	1065	U
1	BA	1066	C
1	BA	1073	U
1	BA	1079	G
1	BA	1080	A
1	BA	1081	A
1	BA	1084	G
1	BA	1086	U
1	BA	1087	G
1	BA	1089	G
1	BA	1094	G
1	BA	1095	U
1	BA	1100	C
1	BA	1101	A
1	BA	1102	A
1	BA	1103	C
1	BA	1105	A
1	BA	1107	C
1	BA	1116	U
1	BA	1122	U
1	BA	1124	G
1	BA	1125	U
1	BA	1132	C
1	BA	1133	G
1	BA	1134	G
1	BA	1135	U
1	BA	1136	C
1	BA	1137	C
1	BA	1138	G
1	BA	1139	G
1	BA	1140	C
1	BA	1141	C
1	BA	1142	G
1	BA	1145	A
1	BA	1154	G
1	BA	1155	A
1	BA	1158	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	1159	U
1	BA	1160	G
1	BA	1161	C
1	BA	1167	A
1	BA	1171	A
1	BA	1176	A
1	BA	1180	A
1	BA	1183	U
1	BA	1184	G
1	BA	1192	C
1	BA	1196	A
1	BA	1197	A
1	BA	1200	C
1	BA	1201	A
1	BA	1202	U
1	BA	1203	C
1	BA	1212	U
1	BA	1213	A
1	BA	1227	A
1	BA	1238	A
1	BA	1240	U
1	BA	1243	C
1	BA	1247	U
1	BA	1253	G
1	BA	1257	A
1	BA	1263	C
1	BA	1264	U
1	BA	1275	A
1	BA	1276	G
1	BA	1280	A
1	BA	1283	U
1	BA	1285	A
1	BA	1286	U
1	BA	1287	A
1	BA	1292	G
1	BA	1293	C
1	BA	1298	U
1	BA	1299	A
1	BA	1300	G
1	BA	1302	C
1	BA	1304	G
1	BA	1305	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	1317	C
1	BA	1318	A
1	BA	1320	C
1	BA	1322	C
1	BA	1335	U
1	BA	1336	C
1	BA	1338	G
1	BA	1340	A
1	BA	1346	A
1	BA	1362	A
1	BA	1363	A
1	BA	1365	G
1	BA	1370	G
1	BA	1378	C
1	BA	1379	G
1	BA	1384	C
1	BA	1388	C
1	BA	1398	A
1	BA	1401	G
1	BA	1412	C
1	BA	1413	A
1	BA	1419	G
1	BA	1425	U
1	BA	1426	G
1	BA	1435	G
1	BA	1440	U
1	BA	1441	A
1	BA	1442	G
1	BA	1445	U
1	BA	1446	A
1	BA	1452	C
1	BA	1454	G
1	BA	1455	G
1	BA	1456	A
1	BA	1468	A
1	BA	1473	G
1	BA	1480	A
1	BA	1487	G
1	BA	1491	G
1	BA	1492	A
1	BA	1497	G
1	BA	1498	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BA	1499	A
1	BA	1500	A
1	BA	1503	A
1	BA	1505	G
1	BA	1506	U
1	BA	1517	G
1	BA	1522	U
1	BA	1529	G
1	BA	1530	G
1	BA	1531	A
1	BA	1532	U
1	BA	1533	C
1	BA	1534	A
1	BA	1535	C
1	BA	1536	C
1	BA	1538	C
1	BA	1540	U
22	BV	5	G
22	BV	8	U
22	BV	17	C
22	BV	18	G
22	BV	19	G
22	BV	20	U
22	BV	21	A
22	BV	37	A
22	BV	39	U
22	BV	45	U
22	BV	48	C
22	BV	56	C
22	BV	58	A
22	BV	74	C
22	BV	76	A
23	BX	5	A
23	BX	12	A
23	BX	14	A
23	BX	19	U
25	CA	10	A
25	CA	12	U
25	CA	13	A
25	CA	15	G
25	CA	34	U
25	CA	35	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	46	G
25	CA	61	C
25	CA	63	A
25	CA	71	A
25	CA	72	U
25	CA	74	A
25	CA	75	G
25	CA	84	A
25	CA	86	G
25	CA	87	U
25	CA	101	A
25	CA	103	A
25	CA	110	G
25	CA	118	A
25	CA	119	A
25	CA	120	U
25	CA	123	G
25	CA	128	C
25	CA	138	U
25	CA	139	U
25	CA	140	C
25	CA	141	G
25	CA	142	A
25	CA	143	C
25	CA	146	A
25	CA	147	C
25	CA	158	U
25	CA	180	G
25	CA	181	A
25	CA	188	G
25	CA	196	A
25	CA	208	C
25	CA	216	A
25	CA	221	A
25	CA	222	A
25	CA	227	A
25	CA	230	G
25	CA	245	G
25	CA	248	G
25	CA	249	C
25	CA	254	G
25	CA	255	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	265	A
25	CA	266	G
25	CA	271	G
25	CA	272	A
25	CA	273	G
25	CA	277	G
25	CA	278	A
25	CA	279	A
25	CA	282	A
25	CA	284	U
25	CA	285	G
25	CA	293	U
25	CA	302	C
25	CA	306	U
25	CA	310	A
25	CA	311	A
25	CA	325	G
25	CA	329	G
25	CA	330	A
25	CA	331	C
25	CA	340	A
25	CA	344	A
25	CA	351	C
25	CA	353	C
25	CA	359	G
25	CA	361	G
25	CA	362	A
25	CA	370	G
25	CA	371	A
25	CA	372	G
25	CA	386	G
25	CA	389	G
25	CA	396	G
25	CA	402	A
25	CA	404	A
25	CA	405	U
25	CA	406	G
25	CA	409	G
25	CA	411	G
25	CA	412	A
25	CA	414	C
25	CA	415	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	418	C
25	CA	420	C
25	CA	424	G
25	CA	425	G
25	CA	428	A
25	CA	429	A
25	CA	438	G
25	CA	442	G
25	CA	451	U
25	CA	455	C
25	CA	456	C
25	CA	457	A
25	CA	471	A
25	CA	474	G
25	CA	480	A
25	CA	481	G
25	CA	491	G
25	CA	503	A
25	CA	504	A
25	CA	505	A
25	CA	508	A
25	CA	509	C
25	CA	510	C
25	CA	528	A
25	CA	529	A
25	CA	531	C
25	CA	532	A
25	CA	533	G
25	CA	537	G
25	CA	538	A
25	CA	542	C
25	CA	543	G
25	CA	544	C
25	CA	545	U
25	CA	546	U
25	CA	547	A
25	CA	548	G
25	CA	549	G
25	CA	550	C
25	CA	551	G
25	CA	557	C
25	CA	563	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	572	A
25	CA	573	U
25	CA	575	A
25	CA	586	A
25	CA	603	A
25	CA	613	A
25	CA	614	A
25	CA	615	U
25	CA	627	A
25	CA	631	A
25	CA	634	C
25	CA	637	A
25	CA	645	C
25	CA	646	U
25	CA	647	G
25	CA	648	G
25	CA	654	A
25	CA	655	A
25	CA	657	U
25	CA	663	G
25	CA	669	G
25	CA	680	C
25	CA	686	U
25	CA	701	G
25	CA	702	U
25	CA	711	G
25	CA	722	A
25	CA	726	G
25	CA	730	A
25	CA	736	C
25	CA	738	G
25	CA	747	U
25	CA	751	A
25	CA	761	A
25	CA	762	U
25	CA	764	A
25	CA	765	C
25	CA	772	C
25	CA	773	U
25	CA	775	G
25	CA	776	G
25	CA	782	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	784	G
25	CA	785	G
25	CA	791	C
25	CA	792	A
25	CA	805	G
25	CA	812	C
25	CA	819	A
25	CA	824	U
25	CA	827	U
25	CA	828	U
25	CA	829	A
25	CA	830	G
25	CA	835	C
25	CA	845	A
25	CA	846	U
25	CA	847	U
25	CA	848	C
25	CA	858	G
25	CA	859	G
25	CA	868	U
25	CA	873	C
25	CA	878	A
25	CA	879	G
25	CA	884	U
25	CA	885	C
25	CA	894	U
25	CA	896	A
25	CA	901	C
25	CA	910	A
25	CA	914	G
25	CA	915	C
25	CA	916	G
25	CA	930	G
25	CA	931	U
25	CA	932	U
25	CA	941	A
25	CA	946	C
25	CA	957	C
25	CA	961	C
25	CA	971	G
25	CA	973	A
25	CA	974	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	983	A
25	CA	984	A
25	CA	985	C
25	CA	987	C
25	CA	989	G
25	CA	995	C
25	CA	996	A
25	CA	999	U
25	CA	1009	A
25	CA	1012	U
25	CA	1013	C
25	CA	1021	A
25	CA	1026	G
25	CA	1027	A
25	CA	1033	U
25	CA	1041	G
25	CA	1046	A
25	CA	1047	G
25	CA	1053	C
25	CA	1057	A
25	CA	1059	G
25	CA	1061	U
25	CA	1062	G
25	CA	1066	U
25	CA	1067	A
25	CA	1068	G
25	CA	1070	A
25	CA	1071	G
25	CA	1072	C
25	CA	1073	A
25	CA	1074	G
25	CA	1075	C
25	CA	1079	C
25	CA	1081	U
25	CA	1087	G
25	CA	1088	A
25	CA	1091	G
25	CA	1092	C
25	CA	1093	G
25	CA	1098	A
25	CA	1099	G
25	CA	1100	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	1101	U
25	CA	1104	C
25	CA	1106	G
25	CA	1112	G
25	CA	1119	U
25	CA	1121	C
25	CA	1126	A
25	CA	1130	U
25	CA	1131	G
25	CA	1132	U
25	CA	1133	A
25	CA	1135	C
25	CA	1136	G
25	CA	1138	G
25	CA	1139	G
25	CA	1141	U
25	CA	1142	A
25	CA	1155	A
25	CA	1168	G
25	CA	1170	C
25	CA	1171	G
25	CA	1172	C
25	CA	1173	U
25	CA	1174	U
25	CA	1175	A
25	CA	1176	U
25	CA	1178	C
25	CA	1179	G
25	CA	1180	U
25	CA	1181	U
25	CA	1182	G
25	CA	1214	A
25	CA	1222	U
25	CA	1235	G
25	CA	1238	G
25	CA	1239	G
25	CA	1249	U
25	CA	1253	A
25	CA	1256	G
25	CA	1258	U
25	CA	1266	G
25	CA	1271	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	1272	A
25	CA	1273	U
25	CA	1288	G
25	CA	1294	U
25	CA	1299	G
25	CA	1300	G
25	CA	1301	A
25	CA	1306	C
25	CA	1310	G
25	CA	1315	C
25	CA	1316	U
25	CA	1321	A
25	CA	1325	U
25	CA	1341	G
25	CA	1345	C
25	CA	1349	C
25	CA	1352	U
25	CA	1359	A
25	CA	1365	A
25	CA	1367	A
25	CA	1370	C
25	CA	1372	U
25	CA	1373	A
25	CA	1374	G
25	CA	1378	A
25	CA	1379	U
25	CA	1380	G
25	CA	1383	A
25	CA	1386	C
25	CA	1387	A
25	CA	1390	U
25	CA	1406	U
25	CA	1407	G
25	CA	1415	U
25	CA	1416	G
25	CA	1417	C
25	CA	1418	G
25	CA	1419	A
25	CA	1420	A
25	CA	1424	G
25	CA	1427	A
25	CA	1428	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	1450	G
25	CA	1451	C
25	CA	1452	G
25	CA	1453	A
25	CA	1460	U
25	CA	1461	C
25	CA	1462	C
25	CA	1463	C
25	CA	1472	C
25	CA	1482	G
25	CA	1485	U
25	CA	1491	G
25	CA	1493	C
25	CA	1494	A
25	CA	1495	A
25	CA	1504	A
25	CA	1505	A
25	CA	1508	A
25	CA	1509	A
25	CA	1510	G
25	CA	1515	A
25	CA	1523	U
25	CA	1526	C
25	CA	1527	G
25	CA	1528	A
25	CA	1530	G
25	CA	1532	A
25	CA	1533	C
25	CA	1534	U
25	CA	1535	A
25	CA	1536	C
25	CA	1538	G
25	CA	1547	C
25	CA	1554	U
25	CA	1555	G
25	CA	1556	C
25	CA	1560	G
25	CA	1568	G
25	CA	1569	A
25	CA	1576	U
25	CA	1578	U
25	CA	1582	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	1583	A
25	CA	1584	U
25	CA	1585	C
25	CA	1586	A
25	CA	1590	A
25	CA	1593	A
25	CA	1606	C
25	CA	1607	C
25	CA	1608	A
25	CA	1618	A
25	CA	1619	G
25	CA	1623	G
25	CA	1626	A
25	CA	1634	A
25	CA	1639	C
25	CA	1647	U
25	CA	1648	U
25	CA	1649	G
25	CA	1651	G
25	CA	1652	A
25	CA	1661	G
25	CA	1674	G
25	CA	1677	A
25	CA	1686	C
25	CA	1687	G
25	CA	1695	G
25	CA	1710	G
25	CA	1711	A
25	CA	1714	U
25	CA	1715	G
25	CA	1717	A
25	CA	1718	G
25	CA	1721	G
25	CA	1725	U
25	CA	1729	U
25	CA	1730	C
25	CA	1736	U
25	CA	1738	G
25	CA	1743	G
25	CA	1744	A
25	CA	1750	G
25	CA	1754	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	1757	A
25	CA	1758	U
25	CA	1764	C
25	CA	1771	C
25	CA	1773	A
25	CA	1782	U
25	CA	1791	A
25	CA	1800	C
25	CA	1801	A
25	CA	1802	A
25	CA	1808	A
25	CA	1809	A
25	CA	1811	G
25	CA	1816	C
25	CA	1828	G
25	CA	1829	A
25	CA	1833	C
25	CA	1835	G
25	CA	1839	G
25	CA	1841	U
25	CA	1845	G
25	CA	1848	A
25	CA	1854	A
25	CA	1855	U
25	CA	1858	A
25	CA	1861	G
25	CA	1862	G
25	CA	1866	A
25	CA	1870	C
25	CA	1871	A
25	CA	1872	A
25	CA	1873	G
25	CA	1876	A
25	CA	1884	G
25	CA	1885	A
25	CA	1889	A
25	CA	1890	A
25	CA	1902	C
25	CA	1908	C
25	CA	1909	C
25	CA	1913	A
25	CA	1914	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	1915	U
25	CA	1925	C
25	CA	1926	U
25	CA	1927	A
25	CA	1928	A
25	CA	1929	G
25	CA	1930	G
25	CA	1931	U
25	CA	1932	A
25	CA	1937	A
25	CA	1938	A
25	CA	1944	U
25	CA	1955	U
25	CA	1960	A
25	CA	1965	C
25	CA	1966	A
25	CA	1967	C
25	CA	1970	A
25	CA	1971	U
25	CA	1972	G
25	CA	1975	G
25	CA	1981	A
25	CA	1985	C
25	CA	1990	C
25	CA	1991	U
25	CA	1992	G
25	CA	1993	U
25	CA	1997	C
25	CA	2008	C
25	CA	2009	A
25	CA	2020	A
25	CA	2022	U
25	CA	2023	C
25	CA	2025	C
25	CA	2027	G
25	CA	2031	A
25	CA	2033	A
25	CA	2034	U
25	CA	2035	G
25	CA	2043	C
25	CA	2055	C
25	CA	2056	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	2060	A
25	CA	2061	G
25	CA	2062	A
25	CA	2066	C
25	CA	2069	G
25	CA	2071	A
25	CA	2072	C
25	CA	2077	A
25	CA	2078	C
25	CA	2083	G
25	CA	2096	C
25	CA	2097	A
25	CA	2101	A
25	CA	2102	G
25	CA	2104	C
25	CA	2107	G
25	CA	2109	U
25	CA	2110	G
25	CA	2111	U
25	CA	2112	G
25	CA	2113	U
25	CA	2115	G
25	CA	2116	G
25	CA	2117	A
25	CA	2118	U
25	CA	2119	A
25	CA	2120	G
25	CA	2122	U
25	CA	2123	G
25	CA	2126	A
25	CA	2128	G
25	CA	2129	C
25	CA	2130	U
25	CA	2132	U
25	CA	2133	G
25	CA	2135	A
25	CA	2136	G
25	CA	2145	C
25	CA	2146	C
25	CA	2147	A
25	CA	2152	G
25	CA	2153	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	2155	U
25	CA	2157	G
25	CA	2158	A
25	CA	2160	C
25	CA	2162	G
25	CA	2163	A
25	CA	2164	C
25	CA	2165	C
25	CA	2167	U
25	CA	2168	G
25	CA	2169	A
25	CA	2170	A
25	CA	2171	A
25	CA	2172	U
25	CA	2173	A
25	CA	2178	C
25	CA	2179	C
25	CA	2181	U
25	CA	2183	A
25	CA	2184	A
25	CA	2185	U
25	CA	2187	U
25	CA	2198	A
25	CA	2203	U
25	CA	2204	G
25	CA	2208	C
25	CA	2211	A
25	CA	2212	A
25	CA	2213	U
25	CA	2214	C
25	CA	2220	U
25	CA	2225	A
25	CA	2226	C
25	CA	2233	U
25	CA	2238	G
25	CA	2239	G
25	CA	2248	C
25	CA	2250	G
25	CA	2257	U
25	CA	2261	C
25	CA	2268	A
25	CA	2277	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	2278	A
25	CA	2280	G
25	CA	2283	C
25	CA	2284	A
25	CA	2286	G
25	CA	2287	A
25	CA	2288	A
25	CA	2296	U
25	CA	2302	U
25	CA	2303	G
25	CA	2305	U
25	CA	2308	G
25	CA	2309	A
25	CA	2311	A
25	CA	2312	U
25	CA	2325	G
25	CA	2326	C
25	CA	2327	A
25	CA	2329	U
25	CA	2331	G
25	CA	2332	C
25	CA	2333	A
25	CA	2335	A
25	CA	2340	A
25	CA	2341	G
25	CA	2347	C
25	CA	2348	U
25	CA	2350	C
25	CA	2354	C
25	CA	2358	A
25	CA	2361	G
25	CA	2366	A
25	CA	2372	U
25	CA	2376	A
25	CA	2383	G
25	CA	2384	U
25	CA	2385	C
25	CA	2396	G
25	CA	2402	U
25	CA	2405	G
25	CA	2406	A
25	CA	2410	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	2419	U
25	CA	2424	C
25	CA	2425	A
25	CA	2426	A
25	CA	2427	C
25	CA	2428	G
25	CA	2429	G
25	CA	2430	A
25	CA	2435	A
25	CA	2441	U
25	CA	2445	G
25	CA	2448	A
25	CA	2449	U
25	CA	2468	A
25	CA	2469	A
25	CA	2474	U
25	CA	2476	A
25	CA	2491	U
25	CA	2493	U
25	CA	2494	G
25	CA	2497	A
25	CA	2502	G
25	CA	2505	G
25	CA	2507	C
25	CA	2508	G
25	CA	2514	U
25	CA	2518	A
25	CA	2520	C
25	CA	2523	G
25	CA	2525	G
25	CA	2527	C
25	CA	2529	G
25	CA	2552	U
25	CA	2553	G
25	CA	2554	U
25	CA	2555	U
25	CA	2556	C
25	CA	2566	A
25	CA	2567	G
25	CA	2573	C
25	CA	2585	U
25	CA	2586	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	2602	A
25	CA	2603	G
25	CA	2604	U
25	CA	2609	U
25	CA	2610	C
25	CA	2613	U
25	CA	2629	U
25	CA	2632	A
25	CA	2634	A
25	CA	2646	C
25	CA	2662	A
25	CA	2664	G
25	CA	2669	G
25	CA	2676	C
25	CA	2681	C
25	CA	2682	A
25	CA	2689	U
25	CA	2690	U
25	CA	2704	C
25	CA	2711	A
25	CA	2714	G
25	CA	2716	C
25	CA	2720	U
25	CA	2721	A
25	CA	2724	U
25	CA	2726	A
25	CA	2729	G
25	CA	2744	G
25	CA	2745	C
25	CA	2748	A
25	CA	2760	C
25	CA	2767	C
25	CA	2778	A
25	CA	2783	U
25	CA	2784	U
25	CA	2791	G
25	CA	2792	A
25	CA	2798	U
25	CA	2799	A
25	CA	2800	A
25	CA	2811	G
25	CA	2813	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	CA	2818	U
25	CA	2820	A
25	CA	2821	A
25	CA	2823	A
25	CA	2825	G
25	CA	2835	A
25	CA	2836	U
25	CA	2837	A
25	CA	2849	U
25	CA	2854	G
25	CA	2858	C
25	CA	2861	U
25	CA	2864	G
25	CA	2867	G
25	CA	2870	C
25	CA	2874	C
25	CA	2880	C
25	CA	2881	U
25	CA	2883	A
25	CA	2884	U
25	CA	2885	G
25	CA	2886	A
25	CA	2887	A
25	CA	2889	C
25	CA	2899	A
25	CA	2900	A
25	CA	2903	U
26	CB	2	G
26	CB	3	C
26	CB	8	C
26	CB	12	C
26	CB	15	A
26	CB	16	G
26	CB	35	C
26	CB	36	C
26	CB	37	C
26	CB	41	G
26	CB	44	G
26	CB	45	A
26	CB	49	C
26	CB	56	G
26	CB	57	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	CB	60	C
26	CB	66	A
26	CB	67	G
26	CB	89	U
26	CB	90	C
26	CB	98	G
26	CB	99	A
26	CB	109	A
26	CB	119	A
25	DA	2	G
25	DA	10	A
25	DA	12	U
25	DA	13	A
25	DA	15	G
25	DA	17	G
25	DA	22	C
25	DA	31	C
25	DA	34	U
25	DA	41	C
25	DA	42	A
25	DA	43	G
25	DA	45	G
25	DA	46	G
25	DA	53	A
25	DA	55	G
25	DA	56	A
25	DA	57	C
25	DA	58	G
25	DA	59	U
25	DA	60	G
25	DA	61	C
25	DA	63	A
25	DA	70	G
25	DA	71	A
25	DA	74	A
25	DA	75	G
25	DA	80	G
25	DA	82	U
25	DA	84	A
25	DA	90	U
25	DA	91	A
25	DA	92	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	98	G
25	DA	99	U
25	DA	101	A
25	DA	102	U
25	DA	103	A
25	DA	105	C
25	DA	106	C
25	DA	118	A
25	DA	119	A
25	DA	120	U
25	DA	135	U
25	DA	137	U
25	DA	138	U
25	DA	139	U
25	DA	140	C
25	DA	141	G
25	DA	142	A
25	DA	150	U
25	DA	158	U
25	DA	159	G
25	DA	162	U
25	DA	163	C
25	DA	196	A
25	DA	199	A
25	DA	202	U
25	DA	204	A
25	DA	216	A
25	DA	221	A
25	DA	222	A
25	DA	225	C
25	DA	231	A
25	DA	232	G
25	DA	244	A
25	DA	248	G
25	DA	249	C
25	DA	255	A
25	DA	256	A
25	DA	257	C
25	DA	264	C
25	DA	265	A
25	DA	266	G
25	DA	272	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	276	U
25	DA	277	G
25	DA	279	A
25	DA	280	U
25	DA	281	C
25	DA	285	G
25	DA	287	G
25	DA	294	A
25	DA	296	U
25	DA	301	G
25	DA	311	A
25	DA	312	G
25	DA	320	A
25	DA	329	G
25	DA	330	A
25	DA	331	C
25	DA	343	C
25	DA	353	C
25	DA	354	A
25	DA	361	G
25	DA	362	A
25	DA	365	U
25	DA	367	G
25	DA	371	A
25	DA	372	G
25	DA	385	C
25	DA	386	G
25	DA	399	U
25	DA	405	U
25	DA	411	G
25	DA	414	C
25	DA	417	C
25	DA	424	G
25	DA	425	G
25	DA	436	C
25	DA	437	U
25	DA	446	G
25	DA	455	C
25	DA	480	A
25	DA	481	G
25	DA	485	C
25	DA	486	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	491	G
25	DA	504	A
25	DA	505	A
25	DA	508	A
25	DA	510	C
25	DA	521	U
25	DA	530	G
25	DA	531	C
25	DA	532	A
25	DA	533	G
25	DA	537	G
25	DA	541	A
25	DA	542	C
25	DA	543	G
25	DA	544	C
25	DA	545	U
25	DA	546	U
25	DA	547	A
25	DA	548	G
25	DA	549	G
25	DA	550	C
25	DA	563	A
25	DA	567	U
25	DA	573	U
25	DA	575	A
25	DA	585	G
25	DA	586	A
25	DA	603	A
25	DA	608	A
25	DA	609	A
25	DA	612	G
25	DA	613	A
25	DA	614	A
25	DA	615	U
25	DA	617	G
25	DA	618	G
25	DA	620	G
25	DA	627	A
25	DA	630	G
25	DA	631	A
25	DA	637	A
25	DA	639	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	640	C
25	DA	641	U
25	DA	645	C
25	DA	646	U
25	DA	647	G
25	DA	648	G
25	DA	654	A
25	DA	655	A
25	DA	673	C
25	DA	677	A
25	DA	683	U
25	DA	686	U
25	DA	693	A
25	DA	694	U
25	DA	702	U
25	DA	704	G
25	DA	710	U
25	DA	711	G
25	DA	714	U
25	DA	715	A
25	DA	716	A
25	DA	717	C
25	DA	721	A
25	DA	730	A
25	DA	738	G
25	DA	740	C
25	DA	747	U
25	DA	762	U
25	DA	764	A
25	DA	765	C
25	DA	775	G
25	DA	776	G
25	DA	782	A
25	DA	783	A
25	DA	784	G
25	DA	785	G
25	DA	792	A
25	DA	799	G
25	DA	805	G
25	DA	811	U
25	DA	812	C
25	DA	816	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	819	A
25	DA	820	A
25	DA	827	U
25	DA	828	U
25	DA	829	A
25	DA	830	G
25	DA	844	A
25	DA	845	A
25	DA	846	U
25	DA	847	U
25	DA	858	G
25	DA	859	G
25	DA	860	U
25	DA	863	A
25	DA	864	G
25	DA	865	C
25	DA	880	G
25	DA	881	G
25	DA	882	G
25	DA	885	C
25	DA	896	A
25	DA	897	C
25	DA	902	C
25	DA	904	G
25	DA	910	A
25	DA	914	G
25	DA	921	C
25	DA	927	A
25	DA	931	U
25	DA	932	U
25	DA	934	U
25	DA	941	A
25	DA	946	C
25	DA	961	C
25	DA	974	G
25	DA	982	C
25	DA	983	A
25	DA	985	C
25	DA	990	A
25	DA	995	C
25	DA	996	A
25	DA	997	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1005	C
25	DA	1010	A
25	DA	1012	U
25	DA	1013	C
25	DA	1016	G
25	DA	1021	A
25	DA	1022	G
25	DA	1025	G
25	DA	1026	G
25	DA	1030	C
25	DA	1033	U
25	DA	1042	G
25	DA	1046	A
25	DA	1047	G
25	DA	1048	A
25	DA	1053	C
25	DA	1058	U
25	DA	1059	G
25	DA	1060	U
25	DA	1061	U
25	DA	1062	G
25	DA	1063	G
25	DA	1065	U
25	DA	1066	U
25	DA	1067	A
25	DA	1068	G
25	DA	1070	A
25	DA	1071	G
25	DA	1072	C
25	DA	1073	A
25	DA	1074	G
25	DA	1075	C
25	DA	1077	A
25	DA	1079	C
25	DA	1082	U
25	DA	1083	U
25	DA	1087	G
25	DA	1088	A
25	DA	1089	A
25	DA	1090	A
25	DA	1091	G
25	DA	1092	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1094	U
25	DA	1097	U
25	DA	1100	C
25	DA	1104	C
25	DA	1110	G
25	DA	1111	A
25	DA	1112	G
25	DA	1115	G
25	DA	1122	G
25	DA	1128	G
25	DA	1132	U
25	DA	1133	A
25	DA	1135	C
25	DA	1136	G
25	DA	1137	G
25	DA	1138	G
25	DA	1141	U
25	DA	1142	A
25	DA	1143	A
25	DA	1156	A
25	DA	1158	C
25	DA	1168	G
25	DA	1169	A
25	DA	1171	G
25	DA	1173	U
25	DA	1174	U
25	DA	1175	A
25	DA	1176	U
25	DA	1178	C
25	DA	1179	G
25	DA	1180	U
25	DA	1181	U
25	DA	1182	G
25	DA	1186	G
25	DA	1189	A
25	DA	1198	U
25	DA	1208	C
25	DA	1212	G
25	DA	1221	C
25	DA	1227	G
25	DA	1234	U
25	DA	1238	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1241	A
25	DA	1248	G
25	DA	1253	A
25	DA	1256	G
25	DA	1262	A
25	DA	1266	G
25	DA	1269	A
25	DA	1271	G
25	DA	1272	A
25	DA	1278	C
25	DA	1286	A
25	DA	1300	G
25	DA	1301	A
25	DA	1302	A
25	DA	1310	G
25	DA	1311	G
25	DA	1313	U
25	DA	1315	C
25	DA	1316	U
25	DA	1321	A
25	DA	1324	G
25	DA	1332	G
25	DA	1337	G
25	DA	1345	C
25	DA	1347	A
25	DA	1348	C
25	DA	1349	C
25	DA	1352	U
25	DA	1359	A
25	DA	1361	G
25	DA	1365	A
25	DA	1368	G
25	DA	1372	U
25	DA	1378	A
25	DA	1379	U
25	DA	1383	A
25	DA	1386	C
25	DA	1387	A
25	DA	1389	G
25	DA	1390	U
25	DA	1395	A
25	DA	1398	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1412	U
25	DA	1413	A
25	DA	1414	C
25	DA	1416	G
25	DA	1417	C
25	DA	1418	G
25	DA	1419	A
25	DA	1420	A
25	DA	1423	G
25	DA	1427	A
25	DA	1428	C
25	DA	1429	G
25	DA	1433	A
25	DA	1434	A
25	DA	1436	G
25	DA	1442	U
25	DA	1443	U
25	DA	1450	G
25	DA	1452	G
25	DA	1453	A
25	DA	1454	C
25	DA	1455	G
25	DA	1456	G
25	DA	1458	U
25	DA	1467	U
25	DA	1471	G
25	DA	1475	G
25	DA	1476	U
25	DA	1478	G
25	DA	1480	C
25	DA	1482	G
25	DA	1484	U
25	DA	1493	C
25	DA	1495	A
25	DA	1499	C
25	DA	1504	A
25	DA	1509	A
25	DA	1510	G
25	DA	1515	A
25	DA	1516	G
25	DA	1523	U
25	DA	1528	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1530	G
25	DA	1531	C
25	DA	1533	C
25	DA	1534	U
25	DA	1535	A
25	DA	1536	C
25	DA	1537	G
25	DA	1538	G
25	DA	1556	C
25	DA	1566	A
25	DA	1569	A
25	DA	1578	U
25	DA	1579	A
25	DA	1581	G
25	DA	1582	C
25	DA	1583	A
25	DA	1584	U
25	DA	1585	C
25	DA	1586	A
25	DA	1606	C
25	DA	1607	C
25	DA	1608	A
25	DA	1610	A
25	DA	1613	G
25	DA	1616	A
25	DA	1622	G
25	DA	1623	G
25	DA	1647	U
25	DA	1648	U
25	DA	1649	G
25	DA	1651	G
25	DA	1654	A
25	DA	1674	G
25	DA	1676	A
25	DA	1677	A
25	DA	1702	G
25	DA	1705	A
25	DA	1706	C
25	DA	1709	U
25	DA	1715	G
25	DA	1728	C
25	DA	1729	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1730	C
25	DA	1731	G
25	DA	1735	A
25	DA	1738	G
25	DA	1739	A
25	DA	1740	G
25	DA	1744	A
25	DA	1754	A
25	DA	1756	G
25	DA	1762	A
25	DA	1764	C
25	DA	1773	A
25	DA	1774	C
25	DA	1776	G
25	DA	1782	U
25	DA	1800	C
25	DA	1801	A
25	DA	1808	A
25	DA	1811	G
25	DA	1816	C
25	DA	1823	G
25	DA	1825	U
25	DA	1827	U
25	DA	1828	G
25	DA	1829	A
25	DA	1846	G
25	DA	1858	A
25	DA	1859	U
25	DA	1869	G
25	DA	1870	C
25	DA	1871	A
25	DA	1872	A
25	DA	1874	C
25	DA	1884	G
25	DA	1888	G
25	DA	1903	G
25	DA	1905	C
25	DA	1906	G
25	DA	1907	G
25	DA	1913	A
25	DA	1914	C
25	DA	1916	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	1927	A
25	DA	1929	G
25	DA	1930	G
25	DA	1935	G
25	DA	1936	A
25	DA	1937	A
25	DA	1938	A
25	DA	1944	U
25	DA	1947	C
25	DA	1948	G
25	DA	1949	G
25	DA	1951	U
25	DA	1955	U
25	DA	1958	C
25	DA	1961	C
25	DA	1963	U
25	DA	1965	C
25	DA	1966	A
25	DA	1967	C
25	DA	1970	A
25	DA	1971	U
25	DA	1972	G
25	DA	1974	C
25	DA	1983	G
25	DA	1991	U
25	DA	1992	G
25	DA	1993	U
25	DA	1997	C
25	DA	2019	A
25	DA	2022	U
25	DA	2023	C
25	DA	2031	A
25	DA	2033	A
25	DA	2042	A
25	DA	2043	C
25	DA	2055	C
25	DA	2056	G
25	DA	2057	G
25	DA	2060	A
25	DA	2061	G
25	DA	2062	A
25	DA	2069	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	2072	C
25	DA	2076	U
25	DA	2092	U
25	DA	2093	G
25	DA	2096	C
25	DA	2102	G
25	DA	2103	C
25	DA	2107	G
25	DA	2108	A
25	DA	2109	U
25	DA	2110	G
25	DA	2111	U
25	DA	2112	G
25	DA	2113	U
25	DA	2115	G
25	DA	2116	G
25	DA	2117	A
25	DA	2118	U
25	DA	2119	A
25	DA	2125	G
25	DA	2126	A
25	DA	2127	G
25	DA	2128	G
25	DA	2131	U
25	DA	2132	U
25	DA	2133	G
25	DA	2135	A
25	DA	2136	G
25	DA	2137	U
25	DA	2145	C
25	DA	2146	C
25	DA	2147	A
25	DA	2148	G
25	DA	2149	U
25	DA	2150	C
25	DA	2151	U
25	DA	2152	G
25	DA	2158	A
25	DA	2159	G
25	DA	2162	G
25	DA	2163	A
25	DA	2164	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	2165	C
25	DA	2169	A
25	DA	2170	A
25	DA	2171	A
25	DA	2172	U
25	DA	2173	A
25	DA	2177	C
25	DA	2178	C
25	DA	2184	A
25	DA	2189	U
25	DA	2190	G
25	DA	2194	U
25	DA	2197	U
25	DA	2198	A
25	DA	2204	G
25	DA	2211	A
25	DA	2212	A
25	DA	2214	C
25	DA	2220	U
25	DA	2223	G
25	DA	2224	G
25	DA	2225	A
25	DA	2226	C
25	DA	2227	A
25	DA	2228	G
25	DA	2236	U
25	DA	2238	G
25	DA	2242	G
25	DA	2243	U
25	DA	2245	U
25	DA	2250	G
25	DA	2268	A
25	DA	2269	G
25	DA	2273	A
25	DA	2278	A
25	DA	2280	G
25	DA	2283	C
25	DA	2287	A
25	DA	2293	G
25	DA	2294	G
25	DA	2296	U
25	DA	2297	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	2305	U
25	DA	2307	G
25	DA	2309	A
25	DA	2310	C
25	DA	2311	A
25	DA	2312	U
25	DA	2320	U
25	DA	2321	U
25	DA	2322	A
25	DA	2324	U
25	DA	2325	G
25	DA	2327	A
25	DA	2333	A
25	DA	2335	A
25	DA	2336	A
25	DA	2344	U
25	DA	2347	C
25	DA	2354	C
25	DA	2356	U
25	DA	2357	G
25	DA	2358	A
25	DA	2361	G
25	DA	2378	A
25	DA	2379	G
25	DA	2383	G
25	DA	2385	C
25	DA	2402	U
25	DA	2403	C
25	DA	2406	A
25	DA	2407	A
25	DA	2414	G
25	DA	2423	U
25	DA	2424	C
25	DA	2425	A
25	DA	2426	A
25	DA	2429	G
25	DA	2430	A
25	DA	2431	U
25	DA	2434	A
25	DA	2435	A
25	DA	2441	U
25	DA	2446	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	2448	A
25	DA	2473	U
25	DA	2476	A
25	DA	2477	U
25	DA	2484	G
25	DA	2491	U
25	DA	2494	G
25	DA	2502	G
25	DA	2504	U
25	DA	2505	G
25	DA	2518	A
25	DA	2525	G
25	DA	2529	G
25	DA	2532	G
25	DA	2534	A
25	DA	2535	G
25	DA	2547	A
25	DA	2554	U
25	DA	2557	G
25	DA	2566	A
25	DA	2567	G
25	DA	2572	A
25	DA	2573	C
25	DA	2574	G
25	DA	2580	U
25	DA	2585	U
25	DA	2592	G
25	DA	2602	A
25	DA	2603	G
25	DA	2605	U
25	DA	2609	U
25	DA	2613	U
25	DA	2614	A
25	DA	2615	U
25	DA	2629	U
25	DA	2630	G
25	DA	2653	U
25	DA	2656	U
25	DA	2663	G
25	DA	2681	C
25	DA	2683	C
25	DA	2689	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	2690	U
25	DA	2701	U
25	DA	2702	G
25	DA	2703	C
25	DA	2713	U
25	DA	2714	G
25	DA	2718	G
25	DA	2724	U
25	DA	2726	A
25	DA	2729	G
25	DA	2732	G
25	DA	2743	U
25	DA	2748	A
25	DA	2757	A
25	DA	2758	A
25	DA	2764	A
25	DA	2765	A
25	DA	2768	U
25	DA	2769	U
25	DA	2770	G
25	DA	2778	A
25	DA	2791	G
25	DA	2793	C
25	DA	2794	C
25	DA	2798	U
25	DA	2799	A
25	DA	2800	A
25	DA	2805	C
25	DA	2807	U
25	DA	2818	U
25	DA	2820	A
25	DA	2821	A
25	DA	2825	G
25	DA	2826	A
25	DA	2833	U
25	DA	2835	A
25	DA	2836	U
25	DA	2840	C
25	DA	2848	G
25	DA	2855	C
25	DA	2856	A
25	DA	2858	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DA	2861	U
25	DA	2863	C
25	DA	2867	G
25	DA	2871	U
25	DA	2872	A
25	DA	2873	A
25	DA	2875	C
25	DA	2879	A
25	DA	2880	C
25	DA	2883	A
25	DA	2884	U
25	DA	2887	A
25	DA	2889	C
25	DA	2894	G
25	DA	2895	G
25	DA	2902	C
25	DA	2903	U
56	DB	8	C
56	DB	11	C
56	DB	13	G
56	DB	15	A
56	DB	16	G
56	DB	19	C
56	DB	21	G
56	DB	22	U
56	DB	24	G
56	DB	25	U
56	DB	32	U
56	DB	33	G
56	DB	34	A
56	DB	35	C
56	DB	36	C
56	DB	38	C
56	DB	39	A
56	DB	44	G
56	DB	45	A
56	DB	46	A
56	DB	52	A
56	DB	56	G
56	DB	58	A
56	DB	59	A
56	DB	61	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
56	DB	64	G
56	DB	73	A
56	DB	88	C
56	DB	89	U
56	DB	90	C
56	DB	93	C
56	DB	99	A
56	DB	105	G
56	DB	109	A

There are no RNA pucker outliers to report.

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 500 ligands modelled in this entry, 500 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1538/1539 (99%)	-0.64	7 (0%) 90 74	0, 31, 105, 170	0
1	BA	1539/1539 (100%)	-0.58	10 (0%) 89 71	0, 33, 101, 147	0
2	AB	218/218 (100%)	0.58	14 (6%) 20 7	12, 52, 84, 115	0
2	BB	218/218 (100%)	0.41	12 (5%) 26 10	19, 59, 88, 113	0
3	AC	206/206 (100%)	-0.32	0 100 100	0, 35, 69, 93	0
3	BC	206/206 (100%)	0.23	3 (1%) 74 47	9, 46, 75, 92	0
4	AD	205/205 (100%)	0.08	4 (1%) 65 36	14, 42, 73, 98	0
4	BD	205/205 (100%)	-0.26	1 (0%) 90 74	0, 24, 64, 82	0
5	AE	150/150 (100%)	-0.15	2 (1%) 77 51	0, 32, 68, 105	0
5	BE	150/150 (100%)	-0.38	0 100 100	0, 31, 68, 98	0
6	AF	100/100 (100%)	-0.37	0 100 100	0, 33, 68, 86	0
6	BF	100/100 (100%)	-0.01	0 100 100	17, 54, 80, 93	0
7	AG	151/151 (100%)	0.50	14 (9%) 9 3	12, 56, 86, 111	0
7	BG	151/151 (100%)	0.01	5 (3%) 47 21	20, 54, 81, 94	0
8	AH	129/129 (100%)	-0.48	0 100 100	0, 32, 60, 71	0
8	BH	129/129 (100%)	-0.25	1 (0%) 86 64	4, 34, 58, 82	0
9	AI	127/127 (100%)	0.17	4 (3%) 49 22	6, 54, 79, 108	0
9	BI	127/127 (100%)	0.37	8 (6%) 21 7	20, 55, 85, 117	0
10	AJ	98/98 (100%)	0.42	5 (5%) 29 12	8, 55, 89, 104	0
10	BJ	98/98 (100%)	0.38	6 (6%) 22 8	25, 58, 82, 113	0
11	AK	117/117 (100%)	-0.37	1 (0%) 84 61	0, 19, 50, 87	0
11	BK	117/117 (100%)	-0.24	0 100 100	0, 32, 66, 79	0
12	AL	123/123 (100%)	-0.32	2 (1%) 72 44	0, 22, 67, 93	0
12	BL	123/123 (100%)	-0.27	3 (2%) 59 30	0, 17, 58, 93	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	114/114 (100%)	0.08	4 (3%) 44 19	9, 53, 87, 100	0
13	BM	114/114 (100%)	0.73	7 (6%) 22 8	26, 63, 87, 97	0
14	AN	96/100 (96%)	-0.03	1 (1%) 82 58	12, 45, 84, 107	0
14	BN	96/100 (96%)	0.26	4 (4%) 37 15	10, 56, 84, 98	0
15	AO	88/88 (100%)	-0.40	1 (1%) 80 55	0, 28, 55, 93	0
15	BO	88/88 (100%)	-0.07	1 (1%) 80 55	1, 33, 66, 89	0
16	AP	82/82 (100%)	0.12	3 (3%) 42 18	5, 30, 73, 86	0
16	BP	82/82 (100%)	-0.12	4 (4%) 30 12	0, 24, 67, 91	0
17	AQ	80/80 (100%)	0.03	1 (1%) 77 51	8, 42, 75, 96	0
17	BQ	80/80 (100%)	-0.11	1 (1%) 77 51	7, 44, 79, 94	0
18	AR	55/55 (100%)	-0.37	1 (1%) 69 40	0, 25, 59, 93	0
18	BR	55/55 (100%)	-0.11	2 (3%) 43 18	5, 38, 80, 101	0
19	AS	79/79 (100%)	0.51	4 (5%) 29 12	21, 52, 83, 98	0
19	BS	79/79 (100%)	0.78	9 (11%) 6 2	37, 65, 83, 95	0
20	AT	85/85 (100%)	0.19	4 (4%) 32 13	7, 37, 67, 80	0
20	BT	85/85 (100%)	0.20	2 (2%) 59 30	8, 38, 69, 96	0
21	AU	51/51 (100%)	0.20	5 (9%) 8 3	7, 39, 74, 77	0
21	BU	51/51 (100%)	0.27	3 (5%) 23 9	8, 47, 74, 80	0
22	AV	76/76 (100%)	-0.22	1 (1%) 77 51	0, 70, 127, 154	0
22	BV	76/76 (100%)	-0.33	0 100 100	22, 43, 72, 119	0
23	AX	15/16 (93%)	0.40	1 (6%) 19 7	6, 76, 115, 133	0
23	BX	16/16 (100%)	0.19	1 (6%) 21 7	16, 77, 102, 124	0
24	AY	183/183 (100%)	0.71	38 (20%) 1 1	0, 50, 96, 117	0
25	CA	2897/2903 (99%)	-0.52	33 (1%) 80 55	0, 0, 103, 162	0
25	DA	2896/2903 (99%)	-0.60	25 (0%) 84 61	0, 15, 109, 162	0
26	CB	119/119 (100%)	-0.84	0 100 100	0, 7, 32, 85	0
27	CC	271/271 (100%)	-0.62	0 100 100	0, 1, 29, 56	0
27	DC	271/271 (100%)	-0.53	0 100 100	0, 19, 47, 77	0
28	CD	209/209 (100%)	-0.63	0 100 100	0, 0, 19, 61	0
28	DD	209/209 (100%)	-0.55	1 (0%) 90 74	0, 10, 52, 66	0
29	CE	201/201 (100%)	-0.53	0 100 100	0, 0, 39, 84	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	DE	201/201 (100%)	-0.38	0 100 100	0, 21, 60, 89	0
30	CF	177/177 (100%)	0.07	3 (1%) 70 42	0, 35, 82, 91	0
30	DF	177/177 (100%)	0.41	8 (4%) 34 13	12, 58, 84, 95	0
31	CG	176/176 (100%)	-0.37	0 100 100	0, 15, 48, 88	0
31	DG	176/176 (100%)	0.20	2 (1%) 80 55	15, 48, 73, 93	0
32	CH	149/149 (100%)	0.10	7 (4%) 32 13	0, 52, 87, 100	0
32	DH	149/149 (100%)	0.60	7 (4%) 32 13	8, 58, 92, 107	0
33	CI	141/141 (100%)	2.32	73 (51%) 0 0	44, 79, 102, 124	0
33	DI	141/141 (100%)	2.44	71 (50%) 0 0	54, 82, 104, 118	0
34	CJ	142/142 (100%)	-0.61	0 100 100	0, 0, 21, 56	0
34	DJ	142/142 (100%)	-0.45	0 100 100	0, 8, 37, 65	0
35	CK	122/122 (100%)	-0.64	0 100 100	0, 0, 27, 73	0
35	DK	122/122 (100%)	-0.45	0 100 100	0, 15, 50, 71	0
36	CL	143/143 (100%)	-0.54	0 100 100	0, 0, 27, 68	0
36	DL	143/143 (100%)	-0.30	3 (2%) 64 34	0, 18, 56, 82	0
37	CM	136/136 (100%)	-0.61	0 100 100	0, 0, 21, 83	0
37	DM	136/136 (100%)	-0.17	1 (0%) 87 67	0, 21, 55, 88	0
38	CN	120/120 (100%)	-0.57	0 100 100	0, 0, 14, 68	0
38	DN	120/120 (100%)	-0.50	0 100 100	0, 12, 44, 78	0
39	CO	116/116 (100%)	-0.55	0 100 100	0, 11, 39, 49	0
39	DO	116/116 (100%)	0.33	8 (6%) 18 6	5, 49, 78, 98	0
40	CP	114/114 (100%)	-0.61	0 100 100	0, 0, 47, 70	0
40	DP	114/114 (100%)	-0.46	0 100 100	0, 21, 51, 81	0
41	CQ	117/117 (100%)	-0.60	0 100 100	0, 0, 7, 63	0
41	DQ	117/117 (100%)	-0.70	0 100 100	0, 2, 27, 45	0
42	CR	103/103 (100%)	-0.57	0 100 100	0, 0, 35, 57	0
42	DR	103/103 (100%)	-0.61	1 (0%) 82 58	0, 10, 46, 78	0
43	CS	110/110 (100%)	-0.46	1 (0%) 84 61	0, 0, 22, 98	0
43	DS	110/110 (100%)	-0.63	0 100 100	0, 8, 40, 77	0
44	CT	93/93 (100%)	-0.27	2 (2%) 62 33	0, 6, 68, 78	0
44	DT	93/93 (100%)	0.13	1 (1%) 80 55	0, 35, 71, 96	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	CU	102/102 (100%)	-0.50	2 (1%) 65 36	0, 5, 42, 79	0
45	DU	102/102 (100%)	0.35	10 (9%) 8 3	0, 34, 74, 100	0
46	CV	94/94 (100%)	-0.55	0 100 100	0, 6, 42, 62	0
46	DV	94/94 (100%)	-0.10	1 (1%) 80 55	11, 43, 68, 82	0
47	CW	76/76 (100%)	-0.54	0 100 100	0, 1, 31, 69	0
48	CX	77/77 (100%)	-0.47	0 100 100	0, 1, 47, 74	0
48	DX	77/77 (100%)	-0.42	0 100 100	0, 23, 55, 67	0
49	CY	63/63 (100%)	-0.32	2 (3%) 48 21	0, 14, 56, 97	0
49	DY	63/63 (100%)	-0.18	0 100 100	8, 43, 70, 111	0
50	CZ	58/58 (100%)	-0.53	0 100 100	0, 0, 13, 50	0
50	DZ	58/58 (100%)	-0.39	1 (1%) 70 42	0, 20, 52, 72	0
51	C0	56/56 (100%)	-0.60	0 100 100	0, 0, 25, 69	0
51	D0	56/56 (100%)	-0.54	0 100 100	0, 10, 53, 94	0
52	C1	50/50 (100%)	-0.03	1 (2%) 65 36	0, 8, 51, 93	0
52	D1	50/50 (100%)	0.48	3 (6%) 23 9	21, 38, 70, 88	0
53	C2	46/46 (100%)	-0.50	1 (2%) 62 33	0, 0, 15, 101	0
53	D2	46/46 (100%)	-0.64	0 100 100	0, 10, 26, 94	0
54	C3	64/64 (100%)	-0.61	0 100 100	0, 0, 11, 38	0
54	D3	64/64 (100%)	-0.42	0 100 100	0, 15, 35, 52	0
55	C4	38/38 (100%)	-0.38	0 100 100	0, 1, 32, 72	0
55	D4	38/38 (100%)	-0.12	0 100 100	3, 26, 59, 65	0
56	DB	118/118 (100%)	-0.71	0 100 100	6, 58, 86, 106	0
57	DW	75/75 (100%)	-0.16	0 100 100	0, 27, 54, 94	0
All	All	20908/20931 (99%)	-0.31	468 (2%) 62 33	0, 23, 86, 170	0

All (468) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
33	CI	52	LEU	10.7
33	DI	2	LYS	9.5
33	DI	59	THR	9.0
33	DI	4	VAL	8.8
33	CI	48	ILE	8.7
33	DI	66	PHE	8.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	DI	1	ALA	8.4
33	CI	47	SER	8.2
33	DI	3	LYS	8.0
2	AB	156	LEU	7.8
33	CI	2	LYS	7.6
7	AG	84	TYR	7.4
24	AY	46	TYR	7.0
24	AY	47	GLY	6.9
45	DU	48	VAL	6.6
25	CA	2145	C	6.6
33	DI	5	GLN	6.6
45	DU	52	ASN	6.4
33	CI	70	THR	6.4
33	CI	3	LYS	6.3
7	AG	7	GLY	6.3
13	BM	114	PRO	6.1
16	AP	81	ALA	5.9
33	DI	58	ILE	5.9
32	DH	119	ASN	5.9
33	CI	46	ASP	5.8
12	AL	123	ALA	5.8
33	DI	10	LEU	5.7
1	BA	1031	C	5.5
25	CA	2141	G	5.5
24	AY	44	GLU	5.4
33	CI	66	PHE	5.4
33	CI	1	ALA	5.3
25	CA	138	U	5.3
2	AB	155	GLY	5.3
49	CY	63	ALA	5.3
45	DU	46	LYS	5.2
33	DI	18	ASN	5.2
52	C1	52	LYS	5.2
33	DI	11	GLN	5.2
33	CI	65	SER	5.1
25	DA	138	U	5.1
18	BR	19	GLU	5.1
33	DI	67	THR	5.1
33	DI	27	LEU	5.1
33	DI	54	ILE	5.0
25	CA	2140	G	5.0
24	AY	43	VAL	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
25	DA	1175	A	4.9
25	CA	2139	U	4.9
33	DI	7	TYR	4.8
24	AY	73	ARG	4.8
24	AY	74	SER	4.8
10	AJ	102	LEU	4.8
1	BA	841	C	4.8
33	DI	47	SER	4.7
45	DU	50	ALA	4.7
33	CI	132	ALA	4.6
33	DI	12	VAL	4.6
45	CU	52	ASN	4.6
2	BB	127	LYS	4.6
33	DI	52	LEU	4.5
24	AY	45	TYR	4.5
24	AY	95	ALA	4.5
33	DI	139	VAL	4.4
19	AS	2	ARG	4.4
24	AY	97	SER	4.4
2	BB	73	ARG	4.4
2	AB	154	GLY	4.4
33	CI	87	SER	4.3
2	BB	131	LYS	4.3
17	AQ	82	VAL	4.3
19	BS	2	ARG	4.3
33	DI	98	GLY	4.3
9	BI	39	GLY	4.3
25	CA	2146	C	4.2
25	CA	2132	U	4.2
33	DI	65	SER	4.2
25	DA	2132	U	4.2
33	CI	86	LYS	4.2
33	CI	38	CYS	4.1
33	CI	10	LEU	4.1
32	CH	137	GLU	4.1
5	AE	158	LYS	4.1
2	AB	64	GLY	4.1
19	BS	29	PRO	4.1
1	BA	1030	U	4.1
32	CH	136	SER	4.1
20	AT	3	ILE	4.1
33	CI	7	TYR	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	CI	25	PRO	4.0
24	AY	96	GLY	4.0
33	DI	114	ALA	4.0
33	CI	19	PRO	4.0
25	CA	2153	C	4.0
33	CI	20	SER	4.0
45	DU	45	GLN	4.0
45	DU	53	GLN	4.0
33	DI	68	PHE	4.0
16	BP	81	ALA	4.0
24	AY	75	MET	4.0
33	DI	19	PRO	3.9
25	CA	2154	A	3.9
1	AA	844	G	3.9
2	AB	17	HIS	3.9
33	DI	82	ALA	3.9
4	AD	27	ILE	3.9
25	CA	2172	U	3.9
7	AG	79	VAL	3.9
25	DA	2172	U	3.9
42	DR	50	GLY	3.9
25	CA	139	U	3.9
53	C2	46	LYS	3.9
2	BB	8	MET	3.8
33	CI	67	THR	3.8
24	AY	98	ASP	3.8
33	CI	78	LEU	3.8
25	DA	139	U	3.8
33	CI	113	ALA	3.8
19	BS	63	ASP	3.8
7	AG	82	SER	3.8
7	AG	78	ARG	3.7
7	AG	77	ARG	3.7
23	AX	12	A	3.7
33	CI	54	ILE	3.7
33	DI	55	PRO	3.7
25	DA	546	U	3.7
33	CI	114	ALA	3.7
14	AN	29	ILE	3.7
24	AY	94	SER	3.6
24	AY	49	PRO	3.6
33	DI	111	THR	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
25	CA	2152	G	3.6
33	CI	4	VAL	3.6
16	AP	82	ALA	3.6
45	DU	49	PRO	3.6
25	DA	884	U	3.6
4	BD	24	VAL	3.6
24	AY	42	VAL	3.6
33	DI	6	ALA	3.6
7	AG	83	THR	3.6
25	CA	546	U	3.6
33	DI	23	VAL	3.6
23	BX	12	A	3.6
25	DA	613	A	3.6
25	DA	2131	U	3.5
19	BS	25	GLY	3.5
30	DF	129	MET	3.5
1	AA	1031	C	3.5
30	CF	79	ARG	3.5
33	DI	43	ALA	3.5
24	AY	72	ASP	3.5
7	AG	80	GLY	3.5
2	BB	128	LEU	3.5
45	DU	51	LEU	3.5
33	CI	62	ALA	3.5
9	BI	40	ARG	3.4
24	AY	85	ALA	3.4
33	DI	113	ALA	3.4
49	CY	59	GLU	3.4
5	AE	157	GLY	3.4
25	CA	1065	U	3.4
52	D1	52	LYS	3.4
33	CI	53	PRO	3.4
7	BG	78	ARG	3.4
24	AY	52	LEU	3.4
25	CA	1171	G	3.4
33	DI	14	ALA	3.4
50	DZ	1	ALA	3.4
25	DA	2402	U	3.3
45	DU	54	PRO	3.3
25	CA	2402	U	3.3
33	CI	51	GLY	3.3
18	BR	73	HIS	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	CI	21	PRO	3.3
33	CI	138	VAL	3.3
33	CI	139	VAL	3.3
25	CA	2144	G	3.2
24	AY	101	VAL	3.2
20	BT	3	ILE	3.2
9	AI	40	ARG	3.2
33	CI	95	ASP	3.2
16	BP	45	GLU	3.2
24	AY	37	LEU	3.2
16	BP	47	GLU	3.2
25	DA	883	G	3.2
33	CI	79	LEU	3.2
33	CI	11	GLN	3.2
39	DO	50	ALA	3.2
1	BA	1032	G	3.2
21	AU	46	ARG	3.1
33	CI	119	ALA	3.1
33	DI	132	ALA	3.1
20	AT	51	ASN	3.1
9	AI	42	THR	3.1
25	CA	2163	A	3.1
25	DA	2126	A	3.1
33	CI	58	ILE	3.1
33	DI	48	ILE	3.1
21	BU	37	TYR	3.1
33	CI	120	ASP	3.1
25	CA	1172	C	3.1
8	BH	1	SER	3.1
33	CI	80	LYS	3.1
33	DI	22	PRO	3.1
33	DI	57	VAL	3.1
33	DI	21	PRO	3.1
25	CA	2142	A	3.1
1	BA	843	U	3.1
39	DO	88	LYS	3.0
25	CA	2133	G	3.0
15	AO	88	ARG	3.0
2	AB	134	LEU	3.0
33	DI	95	ASP	3.0
25	CA	2138	G	3.0
32	DH	87	GLU	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	AG	8	GLN	3.0
10	AJ	91	ASP	3.0
33	DI	33	ASN	3.0
24	AY	38	LEU	3.0
39	DO	51	ALA	3.0
1	AA	1032	G	3.0
22	AV	20	U	3.0
13	AM	114	PRO	3.0
21	AU	23	GLU	2.9
39	DO	26	LEU	2.9
2	AB	8	MET	2.9
33	DI	45	THR	2.9
33	CI	137	LEU	2.9
52	D1	51	ALA	2.9
30	DF	169	LEU	2.9
32	CH	119	ASN	2.9
33	CI	77	VAL	2.9
7	AG	10	LYS	2.9
33	CI	63	ASP	2.9
33	CI	35	MET	2.9
33	DI	44	LYS	2.9
33	CI	24	GLY	2.9
9	BI	31	GLN	2.9
1	AA	86	G	2.9
7	AG	22	LEU	2.9
33	DI	85	ILE	2.9
25	CA	2143	C	2.9
33	DI	81	LYS	2.8
1	AA	88	U	2.8
14	BN	29	ILE	2.8
33	CI	6	ALA	2.8
33	CI	42	ASN	2.8
7	BG	7	GLY	2.8
33	CI	44	LYS	2.8
25	DA	2168	G	2.8
7	AG	6	ILE	2.8
30	DF	45	ASP	2.8
21	AU	37	TYR	2.8
13	BM	112	ARG	2.8
25	DA	882	G	2.7
10	BJ	76	ILE	2.7
24	AY	56	ALA	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	BI	20	ILE	2.7
4	AD	150	LYS	2.7
1	BA	1033	G	2.7
24	AY	48	THR	2.7
33	CI	39	LYS	2.7
24	AY	76	SER	2.7
33	DI	46	ASP	2.7
33	DI	60	VAL	2.7
25	DA	1174	U	2.7
11	AK	125	LYS	2.7
31	DG	47	ASN	2.7
33	CI	12	VAL	2.7
16	AP	80	LYS	2.7
19	AS	37	SER	2.7
25	DA	881	G	2.7
33	DI	137	LEU	2.7
24	AY	51	PRO	2.7
32	DH	149	GLU	2.7
33	DI	20	SER	2.7
7	BG	8	GLN	2.7
33	DI	97	VAL	2.7
25	CA	1179	G	2.6
33	CI	32	VAL	2.6
2	BB	129	THR	2.6
25	CA	2164	C	2.6
25	CA	1078	U	2.6
25	DA	2796	U	2.6
10	AJ	25	ILE	2.6
1	AA	1492	A	2.6
24	AY	50	THR	2.6
33	CI	83	ALA	2.6
39	DO	114	GLY	2.6
21	AU	20	ARG	2.6
37	DM	136	MET	2.6
43	CS	110	ARG	2.6
3	BC	36	PHE	2.6
14	BN	34	ASN	2.6
24	AY	93	ASN	2.6
33	DI	64	ARG	2.6
24	AY	68	ILE	2.6
33	DI	37	PHE	2.6
10	AJ	90	LEU	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
28	DD	209	ALA	2.5
46	DV	94	ALA	2.5
24	AY	71	PHE	2.5
45	DU	47	PRO	2.5
33	CI	141	ASP	2.5
1	AA	78	A	2.5
1	BA	1534	A	2.5
2	BB	33	ALA	2.5
12	BL	24	GLU	2.5
13	BM	7	ASN	2.5
7	AG	81	GLY	2.5
24	AY	79	VAL	2.5
33	CI	68	PHE	2.5
33	CI	40	ALA	2.5
2	BB	34	ARG	2.5
33	DI	56	VAL	2.5
9	BI	3	ASN	2.5
33	DI	34	ILE	2.5
33	DI	24	GLY	2.5
33	DI	110	GLN	2.5
13	AM	32	ILE	2.5
25	CA	2173	A	2.5
25	CA	2147	A	2.5
2	BB	135	MET	2.5
44	CT	69	ARG	2.5
25	DA	2118	U	2.5
25	DA	2797	U	2.5
33	DI	15	GLY	2.5
2	AB	127	LYS	2.5
32	DH	135	HIS	2.5
24	AY	70	VAL	2.4
9	BI	5	TYR	2.4
7	BG	83	THR	2.4
14	BN	18	LYS	2.4
25	DA	1171	G	2.4
25	DA	1172	C	2.4
25	CA	549	G	2.4
33	CI	43	ALA	2.4
32	DH	18	GLN	2.4
32	CH	135	HIS	2.4
14	BN	52	PRO	2.4
36	DL	143	GLU	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	BB	17	HIS	2.4
2	BB	212	TYR	2.4
3	BC	81	GLU	2.4
33	CI	49	GLU	2.4
33	CI	96	LYS	2.4
19	AS	31	ARG	2.4
24	AY	77	PRO	2.4
33	CI	116	MET	2.4
2	AB	65	LYS	2.4
13	BM	95	PRO	2.4
2	BB	32	GLY	2.3
12	BL	43	LYS	2.3
25	CA	2148	G	2.3
25	CA	2165	C	2.3
25	DA	885	C	2.3
39	DO	60	GLU	2.3
25	DA	2158	A	2.3
45	CU	51	LEU	2.3
2	AB	153	MET	2.3
33	CI	75	ALA	2.3
33	DI	32	VAL	2.3
25	DA	2125	G	2.3
30	DF	119	LYS	2.3
25	DA	1870	C	2.3
19	BS	46	LEU	2.3
12	BL	123	ALA	2.3
32	CH	116	ARG	2.3
17	BQ	3	LYS	2.3
32	DH	136	SER	2.3
30	CF	80	GLN	2.3
44	CT	72	GLN	2.3
18	AR	19	GLU	2.3
33	CI	118	GLY	2.3
9	AI	22	PRO	2.3
20	BT	35	TYR	2.3
30	DF	82	TYR	2.3
30	CF	112	ASP	2.2
33	CI	69	VAL	2.2
2	AB	122	ASP	2.2
9	BI	38	PHE	2.2
19	AS	23	GLU	2.2
33	DI	29	GLN	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
10	BJ	100	ILE	2.2
13	BM	3	ILE	2.2
33	DI	41	PHE	2.2
24	AY	58	VAL	2.2
30	DF	30	VAL	2.2
30	DF	147	ARG	2.2
19	BS	40	PHE	2.2
24	AY	99	ILE	2.2
33	DI	76	ALA	2.2
25	CA	613	A	2.2
25	CA	896	A	2.2
16	BP	80	LYS	2.2
24	AY	86	SER	2.2
15	BO	15	GLY	2.2
32	CH	140	ALA	2.2
4	AD	190	LEU	2.2
33	CI	81	LYS	2.2
33	CI	100	ILE	2.2
33	CI	8	VAL	2.2
33	CI	82	ALA	2.2
33	DI	13	ALA	2.2
33	CI	16	MET	2.2
7	BG	4	ARG	2.2
21	BU	46	ARG	2.2
33	CI	22	PRO	2.2
33	DI	120	ASP	2.2
21	BU	43	GLU	2.2
33	CI	45	THR	2.2
33	DI	42	ASN	2.2
2	AB	128	LEU	2.2
1	BA	842	U	2.2
33	DI	30	GLN	2.2
10	BJ	6	ILE	2.2
10	AJ	89	ARG	2.2
13	BM	55	LEU	2.1
36	DL	92	LEU	2.1
33	DI	53	PRO	2.1
36	DL	144	GLU	2.1
33	CI	41	PHE	2.1
2	AB	133	ALA	2.1
31	DG	176	LYS	2.1
33	DI	138	VAL	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	AG	151	ALA	2.1
39	DO	87	ILE	2.1
20	AT	86	ALA	2.1
10	BJ	8	ILE	2.1
39	DO	49	VAL	2.1
52	D1	8	ILE	2.1
10	BJ	75	ASP	2.1
3	BC	150	VAL	2.1
33	DI	119	ALA	2.1
12	AL	122	LYS	2.1
19	BS	43	MET	2.1
24	AY	91	ASN	2.1
32	CH	139	PHE	2.1
30	DF	160	LYS	2.1
33	CI	110	GLN	2.1
13	AM	97	ARG	2.1
13	BM	113	LYS	2.0
24	AY	84	MET	2.1
24	AY	146	ASP	2.1
33	CI	102	ARG	2.0
9	BI	66	VAL	2.0
33	CI	33	ASN	2.0
32	DH	116	ARG	2.0
33	DI	96	LYS	2.0
33	DI	87	SER	2.0
33	DI	107	GLU	2.0
9	AI	18	VAL	2.0
19	BS	39	ILE	2.0
10	BJ	32	THR	2.0
21	AU	44	ARG	2.0
1	BA	209	U	2.0
19	BS	26	ASP	2.0
33	CI	60	VAL	2.0
13	AM	3	ILE	2.0
4	AD	104	MET	2.0
33	CI	111	THR	2.0
1	BA	1286	U	2.0
20	AT	56	ILE	2.0
2	AB	118	THR	2.0
33	DI	35	MET	2.0
33	DI	49	GLU	2.0
44	DT	73	ARG	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
58	MG	DA	3131	1/1	0.90	0.58	38.79	55,55,55,55	0
58	MG	CA	3132	1/1	0.93	0.40	20.73	24,24,24,24	0
58	MG	DA	3139	1/1	0.96	0.28	13.40	0,0,0,0	0
58	MG	CA	3147	1/1	0.98	0.26	12.45	0,0,0,0	0
58	MG	CA	3159	1/1	0.98	0.26	10.17	0,0,0,0	0
58	MG	CA	3186	1/1	0.98	0.27	8.84	0,0,0,0	0
58	MG	DA	3154	1/1	0.96	0.17	8.45	0,0,0,0	0
58	MG	AA	1604	1/1	0.91	0.18	8.36	22,22,22,22	0
58	MG	DA	3157	1/1	0.97	0.22	6.86	0,0,0,0	0
58	MG	CA	3121	1/1	0.95	0.19	4.89	0,0,0,0	0
58	MG	CA	3175	1/1	0.95	0.17	4.39	0,0,0,0	0
58	MG	CA	3153	1/1	0.95	0.29	4.38	0,0,0,0	0
58	MG	CA	3066	1/1	0.98	0.22	4.27	0,0,0,0	0
58	MG	CA	3155	1/1	0.96	0.37	4.23	0,0,0,0	0
58	MG	CA	3188	1/1	0.96	0.15	4.06	2,2,2,2	0
58	MG	CA	3165	1/1	0.96	0.19	3.98	0,0,0,0	0
58	MG	CA	3163	1/1	0.97	0.20	3.49	0,0,0,0	0
58	MG	DA	3152	1/1	0.92	0.17	3.47	6,6,6,6	0
58	MG	DA	3142	1/1	0.98	0.16	2.94	0,0,0,0	0
58	MG	AA	1622	1/1	0.96	0.17	2.47	0,0,0,0	0
58	MG	DA	3108	1/1	0.99	0.17	2.09	0,0,0,0	0
58	MG	DA	3116	1/1	0.85	0.14	2.09	13,13,13,13	0
58	MG	CA	3161	1/1	0.98	0.19	1.97	0,0,0,0	0
58	MG	BA	1640	1/1	0.98	0.14	1.48	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	CA	3110	1/1	0.97	0.17	1.14	0,0,0,0	0
58	MG	CA	3064	1/1	0.98	0.18	0.72	0,0,0,0	0
58	MG	CA	3025	1/1	0.93	0.17	0.64	0,0,0,0	0
58	MG	CA	3152	1/1	0.98	0.18	0.55	0,0,0,0	0
58	MG	AA	1656	1/1	0.96	0.13	0.52	14,14,14,14	0
58	MG	DA	3063	1/1	0.92	0.15	0.51	0,0,0,0	0
58	MG	CA	3012	1/1	0.98	0.18	0.50	0,0,0,0	0
58	MG	CA	3084	1/1	0.78	0.11	0.38	22,22,22,22	0
58	MG	CA	3106	1/1	0.84	0.18	0.37	0,0,0,0	0
58	MG	BA	1646	1/1	0.95	0.14	0.15	10,10,10,10	0
58	MG	CA	3050	1/1	1.00	0.16	0.13	0,0,0,0	0
58	MG	DA	3040	1/1	0.96	0.14	0.10	5,5,5,5	0
58	MG	CA	3130	1/1	0.98	0.18	0.06	0,0,0,0	0
58	MG	DA	3145	1/1	0.95	0.11	-0.02	0,0,0,0	0
58	MG	DA	3151	1/1	0.99	0.15	-0.05	11,11,11,11	0
58	MG	DA	3057	1/1	0.89	0.14	-0.07	14,14,14,14	0
58	MG	DA	3013	1/1	0.96	0.14	-0.12	0,0,0,0	0
58	MG	DA	3109	1/1	0.94	0.13	-0.21	2,2,2,2	0
58	MG	CA	3131	1/1	0.98	0.15	-0.23	0,0,0,0	0
58	MG	CA	3017	1/1	0.98	0.16	-0.48	0,0,0,0	0
58	MG	CA	3105	1/1	0.84	0.16	-0.59	0,0,0,0	0
58	MG	CA	3145	1/1	0.97	0.13	-0.73	0,0,0,0	0
58	MG	DA	3017	1/1	0.98	0.13	-0.78	0,0,0,0	0
58	MG	AA	1636	1/1	0.92	0.08	-0.79	0,0,0,0	0
58	MG	DA	3136	1/1	0.85	0.11	-0.81	28,28,28,28	0
58	MG	CA	3041	1/1	0.95	0.16	-0.88	0,0,0,0	0
58	MG	CA	3109	1/1	0.95	0.15	-0.94	0,0,0,0	0
58	MG	AA	1607	1/1	0.94	0.08	-0.94	10,10,10,10	0
58	MG	DA	3101	1/1	0.87	0.12	-1.01	0,0,0,0	0
58	MG	BA	1631	1/1	0.78	0.13	-1.03	35,35,35,35	0
58	MG	DA	3120	1/1	0.94	0.11	-1.08	8,8,8,8	0
58	MG	DA	3005	1/1	0.87	0.10	-1.16	25,25,25,25	0
58	MG	CA	3013	1/1	0.97	0.15	-1.18	0,0,0,0	0
58	MG	BA	1616	1/1	0.95	0.11	-1.19	0,0,0,0	0
58	MG	BA	1614	1/1	0.90	0.07	-1.27	19,19,19,19	0
58	MG	AA	1616	1/1	0.94	0.09	-1.28	11,11,11,11	0
58	MG	AA	1632	1/1	0.92	0.07	-1.29	15,15,15,15	0
58	MG	DA	3153	1/1	0.99	0.10	-1.32	11,11,11,11	0
58	MG	DA	3077	1/1	0.94	0.05	-1.35	12,12,12,12	0
58	MG	CA	3074	1/1	0.97	0.15	-1.40	0,0,0,0	0
58	MG	CA	3054	1/1	0.98	0.14	-1.44	0,0,0,0	0
58	MG	DA	3008	1/1	0.98	0.10	-1.55	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	CA	3117	1/1	0.89	0.14	-1.60	5,5,5,5	0
58	MG	DA	3038	1/1	0.93	0.12	-1.68	0,0,0,0	0
58	MG	DA	3097	1/1	0.97	0.08	-1.68	13,13,13,13	0
58	MG	DA	3036	1/1	0.90	0.08	-1.73	21,21,21,21	0
58	MG	CA	3113	1/1	0.97	0.12	-1.86	0,0,0,0	0
59	ZN	C4	101	1/1	0.99	0.07	-1.90	0,0,0,0	0
58	MG	AA	1617	1/1	0.88	0.05	-1.94	21,21,21,21	0
58	MG	DA	3078	1/1	0.82	0.09	-1.96	15,15,15,15	0
59	ZN	D4	101	1/1	0.99	0.06	-1.96	41,41,41,41	0
58	MG	BA	1603	1/1	0.93	0.09	-1.96	13,13,13,13	0
58	MG	CA	3033	1/1	0.98	0.14	-2.22	0,0,0,0	0
58	MG	BA	1601	1/1	0.98	0.08	-2.30	2,2,2,2	0
58	MG	CA	3137	1/1	0.96	0.09	-2.30	4,4,4,4	0
58	MG	CA	3023	1/1	0.97	0.13	-2.34	0,0,0,0	0
58	MG	CA	3098	1/1	0.95	0.14	-2.37	0,0,0,0	0
58	MG	DA	3073	1/1	0.97	0.11	-2.49	6,6,6,6	0
58	MG	DA	3012	1/1	0.96	0.11	-2.53	0,0,0,0	0
58	MG	DA	3018	1/1	0.96	0.07	-2.53	6,6,6,6	0
58	MG	DA	3105	1/1	0.96	0.11	-2.54	0,0,0,0	0
58	MG	DA	3107	1/1	0.98	0.09	-2.56	9,9,9,9	0
58	MG	CA	3102	1/1	0.92	0.15	-2.59	0,0,0,0	0
58	MG	CA	3133	1/1	0.99	0.05	-2.60	0,0,0,0	0
58	MG	DA	3071	1/1	0.92	0.08	-2.60	0,0,0,0	0
58	MG	DA	3112	1/1	0.94	0.09	-2.67	5,5,5,5	0
58	MG	DA	3070	1/1	0.92	0.08	-2.69	0,0,0,0	0
58	MG	CA	3069	1/1	0.98	0.14	-2.69	0,0,0,0	0
58	MG	DA	3027	1/1	0.95	0.10	-2.75	14,14,14,14	0
58	MG	DA	3132	1/1	0.96	0.05	-2.77	6,6,6,6	0
58	MG	CA	3097	1/1	0.98	0.12	-2.89	0,0,0,0	0
58	MG	BA	1630	1/1	0.81	0.07	-2.92	41,41,41,41	0
58	MG	DA	3028	1/1	0.95	0.11	-2.93	0,0,0,0	0
58	MG	CA	3051	1/1	0.95	0.09	-3.07	3,3,3,3	0
58	MG	CA	3024	1/1	0.93	0.11	-3.10	0,0,0,0	0
58	MG	DA	3134	1/1	0.99	0.07	-3.20	0,0,0,0	0
58	MG	CA	3059	1/1	0.95	0.07	-3.30	4,4,4,4	0
58	MG	CA	3022	1/1	0.99	0.14	-3.34	0,0,0,0	0
58	MG	CA	3029	1/1	0.98	0.13	-3.43	0,0,0,0	0
58	MG	CA	3108	1/1	0.97	0.10	-3.50	0,0,0,0	0
58	MG	DA	3021	1/1	0.95	0.08	-3.55	3,3,3,3	0
58	MG	DA	3114	1/1	0.94	0.08	-3.62	14,14,14,14	0
58	MG	AA	1629	1/1	0.99	0.07	-3.65	0,0,0,0	0
58	MG	CA	3063	1/1	0.95	0.12	-3.80	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3129	1/1	0.99	0.08	-3.85	0,0,0,0	0
58	MG	DA	3024	1/1	0.98	0.07	-3.88	0,0,0,0	0
58	MG	BA	1619	1/1	0.98	0.08	-3.98	0,0,0,0	0
58	MG	DA	3053	1/1	0.99	0.06	-4.02	0,0,0,0	0
58	MG	CA	3028	1/1	0.92	0.14	-4.11	21,21,21,21	0
58	MG	AA	1618	1/1	0.96	0.07	-4.12	21,21,21,21	0
58	MG	AA	1630	1/1	0.92	0.09	-4.14	16,16,16,16	0
58	MG	DA	3079	1/1	0.92	0.08	-4.24	27,27,27,27	0
58	MG	DA	3023	1/1	0.97	0.06	-4.35	0,0,0,0	0
58	MG	AA	1642	1/1	0.98	0.06	-4.36	1,1,1,1	0
58	MG	DA	3068	1/1	0.97	0.06	-4.36	6,6,6,6	0
58	MG	CA	3008	1/1	0.97	0.09	-4.40	0,0,0,0	0
58	MG	DA	3104	1/1	0.97	0.09	-4.47	0,0,0,0	0
58	MG	CA	3056	1/1	0.94	0.08	-4.49	10,10,10,10	0
58	MG	CA	3125	1/1	0.96	0.09	-4.55	0,0,0,0	0
58	MG	DA	3124	1/1	0.94	0.05	-4.59	0,0,0,0	0
58	MG	CA	3170	1/1	0.97	0.07	-4.63	0,0,0,0	0
58	MG	DA	3046	1/1	0.96	0.07	-4.67	1,1,1,1	0
58	MG	BA	1635	1/1	0.92	0.08	-4.78	21,21,21,21	0
58	MG	DA	3096	1/1	0.95	0.06	-4.99	13,13,13,13	0
58	MG	AA	1613	1/1	0.92	0.06	-5.01	2,2,2,2	0
58	MG	AA	1641	1/1	0.93	0.09	-5.04	0,0,0,0	0
58	MG	CB	201	1/1	0.94	0.05	-5.10	0,0,0,0	0
58	MG	BA	1617	1/1	0.94	0.06	-5.28	13,13,13,13	0
58	MG	DA	3110	1/1	0.94	0.05	-5.33	18,18,18,18	0
58	MG	BA	1607	1/1	0.97	0.06	-5.37	1,1,1,1	0
58	MG	CA	3135	1/1	0.94	0.12	-5.43	0,0,0,0	0
58	MG	CA	3080	1/1	0.93	0.06	-5.51	1,1,1,1	0
58	MG	CA	3043	1/1	0.98	0.07	-5.55	0,0,0,0	0
58	MG	CA	3071	1/1	0.96	0.07	-5.65	0,0,0,0	0
58	MG	DA	3058	1/1	0.98	0.07	-5.69	6,6,6,6	0
58	MG	BA	1632	1/1	0.94	0.04	-5.86	18,18,18,18	0
58	MG	BA	1634	1/1	0.93	0.05	-6.08	10,10,10,10	0
58	MG	DA	3050	1/1	0.89	0.06	-6.31	0,0,0,0	0
58	MG	CA	3072	1/1	0.98	0.07	-6.53	0,0,0,0	0
58	MG	AA	1625	1/1	0.94	0.07	-6.90	6,6,6,6	0
58	MG	DA	3065	1/1	0.93	0.08	-7.02	0,0,0,0	0
58	MG	BA	1612	1/1	0.94	0.05	-7.13	18,18,18,18	0
58	MG	BA	1626	1/1	0.94	0.06	-7.13	14,14,14,14	0
58	MG	DA	3002	1/1	0.97	0.05	-7.26	1,1,1,1	0
58	MG	BA	1610	1/1	0.97	0.03	-7.56	0,0,0,0	0
58	MG	AA	1609	1/1	0.98	0.05	-7.63	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3049	1/1	0.98	0.05	-8.10	0,0,0,0	0
58	MG	BA	1621	1/1	0.98	0.05	-8.76	12,12,12,12	0
58	MG	CA	3111	1/1	0.96	0.04	-9.79	6,6,6,6	0
58	MG	CA	3035	1/1	0.94	0.07	-10.50	1,1,1,1	0
58	MG	CA	3009	1/1	0.95	0.11	-10.56	0,0,0,0	0
58	MG	CA	3002	1/1	0.93	0.07	-10.61	0,0,0,0	0
58	MG	CA	3119	1/1	0.99	0.02	-13.00	8,8,8,8	0
58	MG	DA	3022	1/1	0.98	0.07	-14.11	0,0,0,0	0
58	MG	CA	3037	1/1	0.97	0.06	-15.97	11,11,11,11	0
58	MG	CA	3127	1/1	0.95	0.12	-	0,0,0,0	0
58	MG	CA	3103	1/1	0.97	0.09	-	0,0,0,0	0
58	MG	CA	3168	1/1	0.95	0.20	-	0,0,0,0	0
58	MG	CB	202	1/1	0.96	0.10	-	0,0,0,0	0
58	MG	CA	3173	1/1	0.95	0.25	-	0,0,0,0	0
58	MG	CA	3091	1/1	0.92	0.08	-	3,3,3,3	0
58	MG	BA	1637	1/1	0.95	0.16	-	19,19,19,19	0
58	MG	DA	3166	1/1	0.96	0.20	-	9,9,9,9	0
58	MG	AA	1605	1/1	0.99	0.07	-	0,0,0,0	0
58	MG	CA	3055	1/1	0.98	0.10	-	6,6,6,6	0
58	MG	DA	3130	1/1	0.99	0.11	-	0,0,0,0	0
58	MG	CA	3093	1/1	0.96	0.12	-	11,11,11,11	0
58	MG	AA	1650	1/1	0.97	0.11	-	0,0,0,0	0
58	MG	CA	3156	1/1	0.98	0.29	-	0,0,0,0	0
58	MG	DA	3035	1/1	0.98	0.10	-	0,0,0,0	0
58	MG	CA	3136	1/1	0.96	0.09	-	0,0,0,0	0
58	MG	CA	3085	1/1	0.95	0.21	-	12,12,12,12	0
58	MG	DA	3081	1/1	0.97	0.06	-	0,0,0,0	0
58	MG	CA	3038	1/1	0.99	0.20	-	0,0,0,0	0
58	MG	CA	3058	1/1	0.95	0.10	-	10,10,10,10	0
58	MG	DA	3121	1/1	0.96	0.07	-	7,7,7,7	0
58	MG	AA	1637	1/1	0.91	0.09	-	1,1,1,1	0
58	MG	BA	1609	1/1	0.90	0.09	-	26,26,26,26	0
58	MG	CA	3011	1/1	0.97	0.20	-	0,0,0,0	0
58	MG	DA	3062	1/1	0.93	0.09	-	0,0,0,0	0
58	MG	CA	3149	1/1	0.98	0.32	-	0,0,0,0	0
58	MG	BA	1639	1/1	0.95	0.06	-	0,0,0,0	0
58	MG	DA	3085	1/1	0.94	0.20	-	0,0,0,0	0
58	MG	CA	3118	1/1	0.98	0.07	-	0,0,0,0	0
58	MG	CA	3048	1/1	0.91	0.09	-	13,13,13,13	0
58	MG	CA	3193	1/1	0.96	0.25	-	0,0,0,0	0
58	MG	DA	3025	1/1	0.88	0.20	-	16,16,16,16	0
58	MG	BA	1618	1/1	0.87	0.19	-	4,4,4,4	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	1656	1/1	0.96	0.19	-	9,9,9,9	0
58	MG	DA	3044	1/1	0.94	0.05	-	11,11,11,11	0
58	MG	AA	1639	1/1	0.86	0.10	-	22,22,22,22	0
58	MG	BA	1602	1/1	0.82	0.08	-	21,21,21,21	0
58	MG	DA	3161	1/1	0.93	0.09	-	15,15,15,15	0
58	MG	DA	3014	1/1	0.93	0.11	-	12,12,12,12	0
58	MG	CA	3166	1/1	0.96	0.14	-	0,0,0,0	0
58	MG	BA	1627	1/1	0.89	0.12	-	35,35,35,35	0
58	MG	CA	3010	1/1	0.98	0.11	-	0,0,0,0	0
58	MG	AA	1640	1/1	0.74	0.19	-	34,34,34,34	0
58	MG	DA	3033	1/1	0.94	0.12	-	0,0,0,0	0
58	MG	DA	3056	1/1	0.97	0.05	-	5,5,5,5	0
58	MG	CA	3099	1/1	0.88	0.85	-	53,53,53,53	0
58	MG	CA	3021	1/1	0.96	0.10	-	0,0,0,0	0
58	MG	AA	1620	1/1	0.83	0.07	-	10,10,10,10	0
58	MG	DA	3140	1/1	0.97	0.28	-	0,0,0,0	0
58	MG	AA	1664	1/1	0.98	0.11	-	4,4,4,4	0
58	MG	CA	3178	1/1	0.94	0.13	-	0,0,0,0	0
58	MG	AA	1654	1/1	0.93	0.16	-	5,5,5,5	0
58	MG	AA	1612	1/1	0.96	0.05	-	0,0,0,0	0
58	MG	DA	3020	1/1	0.98	0.06	-	0,0,0,0	0
58	MG	CA	3046	1/1	0.95	0.06	-	0,0,0,0	0
58	MG	DA	3080	1/1	0.85	0.09	-	1,1,1,1	0
58	MG	CA	3177	1/1	0.96	0.13	-	0,0,0,0	0
58	MG	AA	1665	1/1	0.95	0.08	-	0,0,0,0	0
58	MG	CA	3128	1/1	0.98	0.14	-	0,0,0,0	0
58	MG	CA	3143	1/1	0.99	0.28	-	0,0,0,0	0
58	MG	BA	1648	1/1	0.96	0.17	-	0,0,0,0	0
58	MG	DA	3143	1/1	0.98	0.21	-	0,0,0,0	0
58	MG	DA	3119	1/1	0.94	0.15	-	44,44,44,44	0
58	MG	DA	3162	1/1	0.94	0.20	-	4,4,4,4	0
58	MG	DA	3037	1/1	0.95	0.18	-	0,0,0,0	0
58	MG	DA	3098	1/1	0.65	0.54	-	49,49,49,49	0
58	MG	BA	1628	1/1	0.99	0.08	-	25,25,25,25	0
58	MG	AA	1651	1/1	0.97	0.24	-	0,0,0,0	0
58	MG	AA	1649	1/1	0.96	0.23	-	0,0,0,0	0
58	MG	BA	1622	1/1	0.94	0.05	-	4,4,4,4	0
58	MG	DA	3059	1/1	0.94	0.11	-	6,6,6,6	0
58	MG	AA	1671	1/1	0.94	0.17	-	6,6,6,6	0
58	MG	AA	1610	1/1	0.97	0.07	-	32,32,32,32	0
58	MG	DA	3011	1/1	0.98	0.08	-	0,0,0,0	0
58	MG	AA	1655	1/1	0.92	0.15	-	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	AA	1626	1/1	0.85	0.10	-	0,0,0,0	0
58	MG	CA	3073	1/1	0.98	0.12	-	0,0,0,0	0
58	MG	DA	3003	1/1	0.94	0.07	-	8,8,8,8	0
58	MG	DA	3084	1/1	0.87	0.12	-	32,32,32,32	0
58	MG	AA	1669	1/1	0.90	0.14	-	10,10,10,10	0
58	MG	CA	3164	1/1	0.92	0.24	-	0,0,0,0	0
58	MG	DA	3087	1/1	0.90	0.05	-	20,20,20,20	0
58	MG	CA	3092	1/1	0.90	0.09	-	16,16,16,16	0
58	MG	DA	3115	1/1	0.60	0.18	-	27,27,27,27	0
58	MG	DA	3102	1/1	0.90	0.09	-	12,12,12,12	0
58	MG	CA	3057	1/1	0.98	0.04	-	0,0,0,0	0
58	MG	CA	3189	1/1	0.98	0.14	-	0,0,0,0	0
58	MG	CA	3154	1/1	0.94	0.29	-	0,0,0,0	0
58	MG	CA	3122	1/1	1.00	0.11	-	0,0,0,0	0
58	MG	CA	3031	1/1	0.97	0.22	-	0,0,0,0	0
58	MG	DA	3118	1/1	0.95	0.10	-	7,7,7,7	0
58	MG	CA	3150	1/1	0.96	0.10	-	0,0,0,0	0
58	MG	DA	3095	1/1	0.92	0.11	-	10,10,10,10	0
58	MG	DA	3010	1/1	0.94	0.09	-	7,7,7,7	0
58	MG	DA	3026	1/1	0.94	0.09	-	0,0,0,0	0
58	MG	CA	3006	1/1	0.94	0.07	-	1,1,1,1	0
58	MG	DL	201	1/1	0.93	0.05	-	10,10,10,10	0
58	MG	CA	3174	1/1	0.98	0.31	-	0,0,0,0	0
58	MG	CA	3115	1/1	0.97	0.06	-	0,0,0,0	0
58	MG	DA	3006	1/1	0.91	0.05	-	10,10,10,10	0
58	MG	BA	1652	1/1	0.95	0.10	-	1,1,1,1	0
58	MG	DB	201	1/1	0.95	0.05	-	24,24,24,24	0
58	MG	CA	3034	1/1	0.95	0.20	-	0,0,0,0	0
58	MG	AA	1624	1/1	0.96	0.06	-	10,10,10,10	0
58	MG	CA	3001	1/1	0.95	0.10	-	0,0,0,0	0
58	MG	DA	3094	1/1	0.96	0.08	-	43,43,43,43	0
58	MG	DA	3034	1/1	0.94	0.06	-	11,11,11,11	0
58	MG	AA	1638	1/1	0.98	0.06	-	12,12,12,12	0
58	MG	DA	3041	1/1	0.98	0.04	-	6,6,6,6	0
58	MG	AA	1661	1/1	0.97	0.15	-	15,15,15,15	0
58	MG	BA	1620	1/1	0.96	0.07	-	19,19,19,19	0
58	MG	AA	1615	1/1	0.97	0.08	-	9,9,9,9	0
58	MG	DA	3004	1/1	0.93	0.10	-	30,30,30,30	0
58	MG	AA	1643	1/1	0.96	0.27	-	0,0,0,0	0
58	MG	BA	1613	1/1	0.95	0.13	-	0,0,0,0	0
58	MG	CA	3160	1/1	0.94	0.32	-	0,0,0,0	0
58	MG	DA	3117	1/1	0.95	0.05	-	5,5,5,5	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	1615	1/1	0.94	0.18	-	9,9,9,9	0
58	MG	DA	3127	1/1	0.98	0.05	-	0,0,0,0	0
58	MG	CA	3049	1/1	0.97	0.07	-	0,0,0,0	0
58	MG	DA	3147	1/1	0.97	0.18	-	0,0,0,0	0
58	MG	CA	3162	1/1	0.98	0.28	-	0,0,0,0	0
58	MG	DA	3111	1/1	0.95	0.08	-	1,1,1,1	0
58	MG	CA	3191	1/1	0.94	0.20	-	0,0,0,0	0
58	MG	AA	1648	1/1	0.96	0.12	-	4,4,4,4	0
58	MG	DA	3076	1/1	0.95	0.09	-	5,5,5,5	0
58	MG	DA	3007	1/1	0.99	0.19	-	26,26,26,26	0
58	MG	CA	3040	1/1	0.94	0.16	-	0,0,0,0	0
58	MG	CA	3015	1/1	0.79	0.25	-	36,36,36,36	0
58	MG	BA	1624	1/1	0.89	0.07	-	1,1,1,1	0
58	MG	AA	1621	1/1	0.97	0.03	-	10,10,10,10	0
58	MG	CA	3060	1/1	0.97	0.04	-	4,4,4,4	0
58	MG	CA	3134	1/1	0.89	0.32	-	14,14,14,14	0
58	MG	DA	3159	1/1	0.98	0.26	-	3,3,3,3	0
58	MG	CA	3018	1/1	0.99	0.18	-	0,0,0,0	0
58	MG	AA	1659	1/1	0.92	0.08	-	12,12,12,12	0
58	MG	AA	1603	1/1	0.85	0.08	-	28,28,28,28	0
58	MG	CA	3053	1/1	0.97	0.08	-	0,0,0,0	0
58	MG	CA	3100	1/1	0.93	0.10	-	0,0,0,0	0
58	MG	CA	3141	1/1	0.98	0.27	-	0,0,0,0	0
58	MG	AA	1601	1/1	0.82	0.10	-	44,44,44,44	0
58	MG	DA	3165	1/1	0.87	0.23	-	0,0,0,0	0
58	MG	DA	3030	1/1	0.92	0.12	-	0,0,0,0	0
58	MG	CA	3078	1/1	0.98	0.07	-	0,0,0,0	0
58	MG	AA	1657	1/1	0.96	0.18	-	2,2,2,2	0
58	MG	CA	3081	1/1	0.95	0.07	-	0,0,0,0	0
58	MG	CA	3171	1/1	0.95	0.14	-	0,0,0,0	0
58	MG	CA	3185	1/1	0.93	0.28	-	0,0,0,0	0
58	MG	BA	1608	1/1	0.92	0.15	-	18,18,18,18	0
58	MG	DA	3061	1/1	0.81	0.19	-	24,24,24,24	0
58	MG	CA	3179	1/1	0.96	0.15	-	0,0,0,0	0
58	MG	AA	1614	1/1	0.96	0.05	-	12,12,12,12	0
58	MG	AA	1634	1/1	0.90	0.05	-	2,2,2,2	0
58	MG	CA	3086	1/1	0.96	0.16	-	0,0,0,0	0
58	MG	CA	3142	1/1	0.99	0.41	-	0,0,0,0	0
58	MG	CA	3065	1/1	0.97	0.09	-	0,0,0,0	0
58	MG	CA	3007	1/1	0.96	0.04	-	0,0,0,0	0
58	MG	DA	3060	1/1	0.95	0.13	-	5,5,5,5	0
58	MG	DA	3067	1/1	0.97	0.07	-	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	CA	3088	1/1	0.98	0.10	-	0,0,0,0	0
58	MG	DA	3031	1/1	0.97	0.11	-	0,0,0,0	0
58	MG	DA	3158	1/1	0.99	0.14	-	0,0,0,0	0
58	MG	CA	3083	1/1	0.98	0.04	-	10,10,10,10	0
58	MG	CA	3032	1/1	0.95	0.07	-	0,0,0,0	0
58	MG	BA	1642	1/1	0.96	0.23	-	6,6,6,6	0
58	MG	CA	3079	1/1	0.97	0.05	-	3,3,3,3	0
58	MG	CA	3181	1/1	0.96	0.15	-	0,0,0,0	0
58	MG	DA	3069	1/1	0.97	0.09	-	41,41,41,41	0
58	MG	CA	3144	1/1	0.98	0.33	-	0,0,0,0	0
58	MG	DA	3055	1/1	0.71	0.13	-	28,28,28,28	0
58	MG	CA	3075	1/1	0.96	0.07	-	0,0,0,0	0
58	MG	DA	3082	1/1	0.95	0.05	-	7,7,7,7	0
58	MG	CA	3169	1/1	0.95	0.22	-	7,7,7,7	0
58	MG	AA	1619	1/1	0.94	0.16	-	32,32,32,32	0
58	MG	BA	1623	1/1	0.97	0.08	-	3,3,3,3	0
58	MG	DA	3045	1/1	0.95	0.09	-	0,0,0,0	0
58	MG	AA	1658	1/1	0.87	0.19	-	16,16,16,16	0
58	MG	CA	3045	1/1	0.95	0.10	-	0,0,0,0	0
58	MG	DA	3113	1/1	0.95	0.12	-	0,0,0,0	0
58	MG	CA	3094	1/1	0.96	0.05	-	3,3,3,3	0
58	MG	CA	3112	1/1	0.93	0.10	-	4,4,4,4	0
58	MG	DA	3048	1/1	0.98	0.06	-	0,0,0,0	0
58	MG	CA	3047	1/1	0.99	0.09	-	0,0,0,0	0
58	MG	AA	1660	1/1	0.91	0.12	-	15,15,15,15	0
58	MG	AA	1635	1/1	0.91	0.09	-	18,18,18,18	0
58	MG	DA	3123	1/1	0.98	0.05	-	6,6,6,6	0
58	MG	CA	3076	1/1	0.93	0.15	-	0,0,0,0	0
58	MG	AA	1667	1/1	0.92	0.26	-	13,13,13,13	0
58	MG	CA	3014	1/1	0.88	0.14	-	12,12,12,12	0
58	MG	DB	203	1/1	0.88	0.06	-	16,16,16,16	0
58	MG	AA	1645	1/1	0.88	0.24	-	8,8,8,8	0
58	MG	AA	1662	1/1	0.87	0.10	-	8,8,8,8	0
58	MG	CA	3052	1/1	0.97	0.12	-	0,0,0,0	0
58	MG	CB	204	1/1	0.98	0.39	-	0,0,0,0	0
58	MG	CA	3158	1/1	0.97	0.34	-	0,0,0,0	0
58	MG	DA	3149	1/1	0.95	0.18	-	0,0,0,0	0
58	MG	DA	3009	1/1	0.94	0.09	-	4,4,4,4	0
58	MG	CB	203	1/1	0.98	0.04	-	5,5,5,5	0
58	MG	DA	3083	1/1	0.65	0.22	-	31,31,31,31	0
58	MG	BA	1641	1/1	0.88	0.09	-	20,20,20,20	0
58	MG	DA	3099	1/1	0.95	0.07	-	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3100	1/1	0.96	0.06	-	4,4,4,4	0
58	MG	DA	3043	1/1	0.97	0.05	-	6,6,6,6	0
58	MG	DA	3039	1/1	0.98	0.09	-	3,3,3,3	0
58	MG	DA	3148	1/1	0.99	0.27	-	0,0,0,0	0
58	MG	DA	3128	1/1	0.97	0.11	-	0,0,0,0	0
58	MG	CA	3044	1/1	0.95	0.06	-	0,0,0,0	0
58	MG	DA	3137	1/1	0.97	0.46	-	0,0,0,0	0
58	MG	DA	3163	1/1	0.98	0.09	-	0,0,0,0	0
58	MG	DA	3090	1/1	0.86	0.08	-	15,15,15,15	0
58	MG	DA	3015	1/1	0.88	0.18	-	23,23,23,23	0
58	MG	CA	3116	1/1	0.93	0.22	-	10,10,10,10	0
58	MG	CA	3039	1/1	0.98	0.11	-	0,0,0,0	0
58	MG	CA	3104	1/1	0.97	0.06	-	0,0,0,0	0
58	MG	DA	3093	1/1	0.96	0.08	-	2,2,2,2	0
58	MG	DA	3106	1/1	0.98	0.17	-	0,0,0,0	0
58	MG	CA	3082	1/1	0.86	0.12	-	0,0,0,0	0
58	MG	DA	3088	1/1	0.74	0.10	-	12,12,12,12	0
58	MG	DA	3160	1/1	0.91	0.12	-	0,0,0,0	0
58	MG	CA	3124	1/1	0.96	0.09	-	0,0,0,0	0
58	MG	BA	1654	1/1	0.96	0.09	-	22,22,22,22	0
58	MG	CA	3187	1/1	0.93	0.16	-	0,0,0,0	0
58	MG	AA	1623	1/1	0.87	0.07	-	24,24,24,24	0
58	MG	CA	3062	1/1	0.80	0.46	-	46,46,46,46	0
58	MG	CA	3114	1/1	0.91	0.10	-	0,0,0,0	0
58	MG	DA	3089	1/1	0.98	0.08	-	24,24,24,24	0
58	MG	CA	3020	1/1	0.98	0.12	-	0,0,0,0	0
58	MG	DA	3126	1/1	0.94	0.13	-	0,0,0,0	0
58	MG	CA	3070	1/1	0.96	0.12	-	25,25,25,25	0
58	MG	DA	3042	1/1	0.97	0.06	-	5,5,5,5	0
58	MG	DA	3074	1/1	0.99	0.13	-	0,0,0,0	0
58	MG	BA	1611	1/1	0.92	0.11	-	13,13,13,13	0
58	MG	CA	3068	1/1	0.99	0.12	-	0,0,0,0	0
58	MG	BA	1605	1/1	0.92	0.06	-	21,21,21,21	0
58	MG	CA	3026	1/1	0.91	0.33	-	30,30,30,30	0
58	MG	DA	3064	1/1	0.88	0.10	-	0,0,0,0	0
58	MG	DA	3052	1/1	0.98	0.05	-	0,0,0,0	0
58	MG	DA	3092	1/1	0.92	0.25	-	34,34,34,34	0
58	MG	CA	3042	1/1	0.97	0.10	-	0,0,0,0	0
58	MG	DA	3016	1/1	0.93	0.08	-	1,1,1,1	0
58	MG	DA	3103	1/1	0.90	0.08	-	0,0,0,0	0
58	MG	AA	1608	1/1	0.95	0.20	-	0,0,0,0	0
58	MG	DA	3164	1/1	0.97	0.15	-	0,0,0,0	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	1644	1/1	0.97	0.09	-	0,0,0,0	0
58	MG	BA	1604	1/1	0.97	0.07	-	13,13,13,13	0
58	MG	BA	1651	1/1	0.97	0.14	-	7,7,7,7	0
58	MG	BA	1633	1/1	0.94	0.12	-	11,11,11,11	0
58	MG	AA	1663	1/1	0.95	0.10	-	6,6,6,6	0
58	MG	CA	3077	1/1	0.98	0.07	-	0,0,0,0	0
58	MG	CA	3190	1/1	0.99	0.23	-	0,0,0,0	0
58	MG	DA	3146	1/1	0.97	0.18	-	0,0,0,0	0
58	MG	CA	3067	1/1	0.96	0.13	-	0,0,0,0	0
58	MG	DA	3032	1/1	0.98	0.08	-	0,0,0,0	0
58	MG	CA	3148	1/1	0.98	0.47	-	0,0,0,0	0
58	MG	CA	3183	1/1	0.97	0.18	-	0,0,0,0	0
58	MG	AA	1606	1/1	0.91	0.06	-	6,6,6,6	0
58	MG	CA	3182	1/1	0.99	0.30	-	0,0,0,0	0
58	MG	CA	3061	1/1	0.95	0.12	-	9,9,9,9	0
58	MG	DA	3001	1/1	0.96	0.05	-	0,0,0,0	0
58	MG	DA	3135	1/1	0.94	0.08	-	11,11,11,11	0
58	MG	DA	3072	1/1	0.97	0.09	-	0,0,0,0	0
58	MG	CA	3139	1/1	0.99	0.42	-	0,0,0,0	0
58	MG	BA	1643	1/1	0.96	0.14	-	3,3,3,3	0
58	MG	DA	3150	1/1	0.96	0.15	-	0,0,0,0	0
58	MG	CA	3151	1/1	0.99	0.32	-	0,0,0,0	0
58	MG	AA	1646	1/1	0.96	0.17	-	0,0,0,0	0
58	MG	CA	3027	1/1	0.95	0.14	-	0,0,0,0	0
58	MG	CA	3172	1/1	0.96	0.17	-	0,0,0,0	0
58	MG	AA	1672	1/1	0.96	0.21	-	3,3,3,3	0
58	MG	CA	3176	1/1	0.97	0.14	-	10,10,10,10	0
58	MG	AA	1647	1/1	0.96	0.23	-	1,1,1,1	0
58	MG	AA	1628	1/1	0.98	0.04	-	1,1,1,1	0
58	MG	DA	3091	1/1	0.71	0.26	-	50,50,50,50	0
58	MG	BA	1647	1/1	0.98	0.06	-	0,0,0,0	0
58	MG	DA	3125	1/1	0.98	0.07	-	0,0,0,0	0
58	MG	AA	1631	1/1	0.82	0.17	-	35,35,35,35	0
58	MG	CA	3129	1/1	0.93	0.12	-	0,0,0,0	0
58	MG	AA	1644	1/1	0.84	0.19	-	5,5,5,5	0
58	MG	CA	3140	1/1	0.96	0.52	-	0,0,0,0	0
58	MG	DB	202	1/1	0.96	0.04	-	9,9,9,9	0
58	MG	CQ	201	1/1	0.97	0.31	-	0,0,0,0	0
58	MG	DQ	801	1/1	0.97	0.26	-	0,0,0,0	0
58	MG	CA	3003	1/1	0.96	0.06	-	0,0,0,0	0
58	MG	CA	3138	1/1	0.92	0.43	-	0,0,0,0	0
58	MG	CA	3095	1/1	0.98	0.16	-	17,17,17,17	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	AA	1633	1/1	0.96	0.04	-	3,3,3,3	0
58	MG	DA	3047	1/1	0.91	0.05	-	28,28,28,28	0
58	MG	CA	3180	1/1	0.95	0.19	-	6,6,6,6	0
58	MG	CA	3030	1/1	0.94	0.11	-	0,0,0,0	0
58	MG	DA	3019	1/1	0.92	0.11	-	0,0,0,0	0
58	MG	CA	3107	1/1	0.98	0.17	-	0,0,0,0	0
58	MG	AA	1653	1/1	0.95	0.15	-	1,1,1,1	0
58	MG	BA	1625	1/1	0.93	0.06	-	0,0,0,0	0
58	MG	CA	3019	1/1	0.89	0.09	-	0,0,0,0	0
58	MG	DA	3156	1/1	0.94	0.23	-	3,3,3,3	0
58	MG	AA	1668	1/1	0.97	0.09	-	0,0,0,0	0
58	MG	DA	3029	1/1	0.99	0.05	-	0,0,0,0	0
58	MG	CA	3004	1/1	0.97	0.05	-	11,11,11,11	0
58	MG	BA	1649	1/1	0.92	0.15	-	11,11,11,11	0
58	MG	CA	3192	1/1	0.98	0.11	-	0,0,0,0	0
58	MG	AA	1627	1/1	0.94	0.14	-	19,19,19,19	0
58	MG	CA	3157	1/1	0.97	0.21	-	0,0,0,0	0
58	MG	BA	1650	1/1	0.98	0.21	-	5,5,5,5	0
58	MG	AA	1602	1/1	0.95	0.11	-	17,17,17,17	0
58	MG	CA	3090	1/1	0.96	0.08	-	1,1,1,1	0
58	MG	BA	1655	1/1	0.91	0.11	-	9,9,9,9	0
58	MG	CA	3123	1/1	0.98	0.20	-	0,0,0,0	0
58	MG	CA	3087	1/1	0.99	0.13	-	0,0,0,0	0
58	MG	DA	3133	1/1	0.91	0.17	-	16,16,16,16	0
58	MG	CA	3005	1/1	0.99	0.05	-	14,14,14,14	0
58	MG	CA	3167	1/1	0.97	0.30	-	0,0,0,0	0
58	MG	BA	1636	1/1	0.86	0.10	-	42,42,42,42	0
58	MG	DA	3144	1/1	0.97	0.07	-	0,0,0,0	0
58	MG	BA	1638	1/1	0.96	0.09	-	27,27,27,27	0
58	MG	AA	1670	1/1	0.92	0.27	-	11,11,11,11	0
58	MG	CA	3016	1/1	0.99	0.12	-	0,0,0,0	0
58	MG	BA	1653	1/1	0.91	0.09	-	7,7,7,7	0
58	MG	CA	3120	1/1	0.94	0.12	-	2,2,2,2	0
58	MG	CA	3126	1/1	0.95	0.13	-	0,0,0,0	0
58	MG	DA	3075	1/1	0.93	0.12	-	8,8,8,8	0
58	MG	CA	3101	1/1	0.95	0.11	-	0,0,0,0	0
58	MG	CA	3089	1/1	0.90	0.08	-	19,19,19,19	0
58	MG	CA	3184	1/1	0.97	0.22	-	0,0,0,0	0
58	MG	AA	1611	1/1	0.85	0.09	-	0,0,0,0	0
58	MG	AA	1652	1/1	0.98	0.12	-	13,13,13,13	0
58	MG	DA	3138	1/1	0.92	0.45	-	0,0,0,0	0
58	MG	BA	1629	1/1	0.92	0.06	-	17,17,17,17	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	1645	1/1	0.93	0.08	-	8,8,8,8	0
58	MG	DA	3054	1/1	0.98	0.09	-	0,0,0,0	0
58	MG	DA	3122	1/1	0.95	0.15	-	0,0,0,0	0
58	MG	DA	3051	1/1	0.97	0.07	-	0,0,0,0	0
58	MG	CA	3194	1/1	0.94	0.19	-	0,0,0,0	0
58	MG	DA	3086	1/1	0.98	0.15	-	0,0,0,0	0
58	MG	DA	3066	1/1	0.95	0.05	-	0,0,0,0	0
58	MG	CA	3036	1/1	0.98	0.16	-	0,0,0,0	0
58	MG	DA	3141	1/1	0.99	0.23	-	0,0,0,0	0
58	MG	DA	3155	1/1	0.98	0.18	-	1,1,1,1	0
58	MG	CA	3096	1/1	0.98	0.07	-	0,0,0,0	0
58	MG	AA	1666	1/1	0.90	0.16	-	13,13,13,13	0
58	MG	CA	3146	1/1	0.96	0.33	-	0,0,0,0	0
58	MG	BA	1606	1/1	0.97	0.12	-	24,24,24,24	0

6.5 Other polymers [i](#)

There are no such residues in this entry.